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SECTION I

SUBJECT (A–L)

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VOLUME 2 NUMBERS 1–24

Scientific and Technical Aerospace Reports

Annual Index (Section I) January–December 1964

TABLE OF CONTENTS

SECTION I

Subject Index (A–L)

SECTION II

Subject Index (M–Z)

SECTION III

Corporate Source Index

Report/Accession Number Index

Accession/Report Number Index

SECTION IV

Personal Author Index

Introduction

What STAR Cumulative Indexes Are

This publication contains cumulations of the indexes to *Scientific and Technical Aerospace Reports (STAR)* for the calendar year 1964 (Volume 2, Numbers 1 through 24). These are: Subject Index, Corporate Source Index, Personal Author Index, Report/Accession Number Index, and Accession/Report Number Index. The accession number is the identification given by NASA to each item indexed in the year indicated (e.g., N64-12345). In each index it is followed by a number (e.g., 13-20) for locating the abstract in the semimonthly issues of *STAR*; the first two digits of this number identify the issue of *STAR*, and the last two the particular subject category in which the abstract appeared.

This Annual Index is divided into four separately bound sections. Sections I and II contain the Subject Index; Section III contains the Corporate Source, Report/Accession Number, and Accession/Report Number Indexes; Section IV contains the Personal Author Index.

This cumulative index for *STAR*, Volume 2, Numbers 1–24, supersedes the previous semimonthly, quarterly, and semiannual indexes for the volume year.

How The Subject Index Was Prepared

Each item announced in the abstract sections of *STAR* was indexed by a number of subject terms. In the individual Subject, Corporate Source, and Personal Author listings the item was represented by a "notation of content" rather than by its original title, since an author's title may not be sufficiently detailed or informative, or not written in the vocabulary of the terms used for indexing. The same general plan is followed in this cumulation of the semimonthly indexes.

Three main objectives guided the design of this Annual Index: (1) ease of use; (2) efficient retrieval, both from specific and general approaches; and (3) control of the number of subject terms and the number of entries under each term within practical limits. These objectives, and consideration of the different types of searches for which this index may be used, have led to the dropping of some subject terms originally used in the semimonthly indexes. Items originally indexed under lightly posted specific terms have been transferred to more general terms, provided this did not result in an unwieldy total number of postings under any one term. As a rule, the specific terms dropped were composite, two-word terms, which were transferred to more general terms with which they shared a "concept word" (e.g., ABSORPTION SPECTRUM to SPECTRUM). Composite terms containing proper names, or names of systems (e.g., SATURN I LAUNCH VEHICLE), were retained, regardless of the number of their postings.

The subject terms in this cumulative index are arranged alphabetically, and supplemented with cross-references which constitute directions to the user that will enable him to modify, enlarge, or narrow his search in accordance with his specific interests. Three types of cross references are used:

1. "See" ("S") is used to relate broad concepts, too general to be useful index terms, to the specific terms used in the Index. For example:

ATTENUATION
S ACOUSTIC ATTENUATION
S MICROWAVE ATTENUATION
S RADIO ATTENUATION

"S" is also used to indicate which of a pair of synonyms has been used in this Index. For example:

COLUMBIUM
S NIOBIUM

2. "See also" ("SA") directs a searcher from a general to a specific term for postings under the specific term that are not repeated under the general heading. For example:

HEATING
SA AERODYNAMIC HEATING

tells a searcher that postings under AERODYNAMIC HEATING are different from those under HEATING. "SA" thus directs the user to separate, unduplicated listings that he should explore.

3. "Confer" ("CF") is used to relate associated concepts usually having different groups of postings. For example:

PLASMA
CF MAGNETOHYDRODYNAMICS

tells a searcher that, while these terms are related in subject matter, postings under each term are different.

Finally, a searcher should use the notations of content in the Index to narrow further his quest for particular items. This is because subject terms can readily include more than one class of document. For example:

CATHODE
ELECTRON TUBE MATERIALS AND THERMIONIC EMISSION PROCESSES

SPACE CHARGE & IONIZATION REGIONS NEAR ARC CATHODE

specify two documents under one term that cover sharply different topics.

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Scientific and Technical Information Division
National Aeronautics and Space Administration

SUBJECT INDEX

Listing of Reports by Subject

A Notation of Content, *rather than the title of the document*, appears under each subject heading; it is listed under several subject headings to provide multiple access to the subject content. The NASA accession number is located under and to the right of the Notation of Contents (e.g., N64-12345), followed by a four digit number (e.g., 13-02) for locating the abstract in the first section. The first two digits identify the issue of *Scientific and Technical Aerospace Reports*, and the two digits following the hyphen identify the category as listed in the Table of Contents.

A

ABERRATION
CF OPTICS
CF REFRACTION
WIDE ANGLE CONDENSER - CORRECTION PLATE FOR REDUCTION OF SPHERICAL ABERRATION IN OPTICAL INSTRUMENTS
FTD-TT-63-1098/1&2 N64-19757 12-23

VARIATION OF OPTIMUM FOCUS WITH APERTURE OF ABERRATED MULTICOMPONENT OPTICAL SYSTEMS
WRE-TN-OID-32 N64-28066 20-23

ABERRATION EFFECTS ON OPTICAL TRANSFER FUNCTION FOR LOW SPATIAL FREQUENCIES
T-G-200 N64-28715 20-23

ABIOGENESIS
CF BIOGENESIS
NONENZYMATIC SYNTHESIS OF NUCLEIC ACID COMPONENTS AND ABIOGENESIS OF NEURINES, PYRIMIDINES, PENTOSRIBOSE AND DEOXYRIBOSE N64-29699 21-16

ABLATING MATERIAL
CF PYROLYTIC MATERIAL
ABLATIVE COATING FOR SHORT TERM THERMAL PROTECTION
CPD-57 N64-10316 01-17

EFFECT OF RESIN COMPOSITION AND FILLERS ON PERFORMANCE OF MOLDED CHARRING ABLATOR IN SUBSONIC ARC JET
NASA-TN-D-2024 N64-11553 03-13

MECHANICAL SPALLATION OF PLASTIC CHARRING ABLATORS - THERMAL PROTECTION FOR REENTRY VEHICLES
R63SD53 N64-14679 06-13

VISCOELASTIC ANALYSIS OF STRUCTURAL INTEGRITY OF AXIALLY ACCELERATED ROCKET WITH ABLATING BOUNDARY EFFECT
AIAA PAPER-64-151 N64-14855 06-13

EQUILIBRIUM COMPOSITION & TEMPERATURES CALCULATED IN WAKE OF SLENDER ABLATING BODY
EOS-RN-22 N64-15811 07-13

MATERIAL TESTING FOR ABLATION SHIELD - BERYLLIUM PRODUCTION FOR ADHESIVE BONDING
A471 N64-16879 08-13

MATERIAL TESTING FOR LIGHTWEIGHT ABLATION SHIELD
A472 N64-16880 08-13

ABLATION MATERIALS FOR NOZZLES, THERMAL INSULATORS AND INERT COMPONENTS OF MISSILE PROPULSION SYSTEMS
NOLTR-63-255 N64-20348 13-27

CONDENSER PROBE FOR MEASURING PENETRATION DEPTH OF ABLATIVE PLASMA INCIDENT ON SOLID TARGET
GAMD-4255 N64-21168 14-15

FREE FLIGHT MEASUREMENTS OF HYPERSONIC FLOW AROUND ABLATING AND NONABLATING SPHERES, SPHERE-CAPPED CYLINDERS, AND CONES
GTR-63-224 N64-21170 14-02

ABLATION BEHAVIOR OF CHARRING MATERIAL IN HIGH VELOCITY STREAMS OF ARC HEATED AIR, NITROGEN, AND ARGON
NASA-RP-179 N64-21278 14-13

APPROXIMATE ANALYSIS OF PERFORMANCE OF CHARRING ABLATORS
NASA-TR-R-195 N64-22024 15-19

EFFECTS OF OXIDATION ON PERFORMANCE OF CHARRING ABLATING MATERIALS
NASA-TR-R-196 N64-22025 15-19

STRUCTURAL ABLATION AND DENSITY OF MOLDED SILICA FIBERS IMPREGNATED WITH PHENOLIC RESIN
A751 N64-22593 15-19

DECELERATION AND MASS LOSS OF BODY OF ABLATING MATERIAL DURING HIGH SPEED MOTION IN EARTH ATMOSPHERE
P-2900 N64-25983 18-13

ABLATION OF SOLID LOW CONDUCTIVITY MATERIAL
PIBAL-683 N64-26064 18-13

MATERIAL ABLATION TO ALLEVIATE HIGH HEAT FLUX
N64-26158 18-13

REENTRY HEATING EXPERIMENT TO BE FLOWN BY SCOUT LAUNCH VEHICLE TO TEST ABLATING MATERIALS FOR USE IN APOLLO PROJECT FLIGHT N64-27657 19-02

ABLATION AEROTHERMOCHEMISTRY AND PROPERTIES OF ABLATING MATERIALS N64-28189 20-13

ABLATING CORK AS THERMAL PROTECTION MATERIAL
NASA-TN-D-2438 N64-28330 20-19

EFFECTS OF ENVIRONMENTAL CONDITIONS ON PERFORMANCE OF CHARRING ABLATING MATERIALS
NASA-TM-X-51959 N64-29707 21-13

EFFECTS OF CESIUM AND SODIUM IN ABLATING SURFACE OF POINTED CONES ON AIR IONIZATION IN BOUNDARY LAYER
R64SD22 N64-30658 22-11

EXTENDED DURATION TESTS ON TITAN II CONFIGURATION ABLATIVE SKIRTS TO OBTAIN FIRING CAPABILITY DATA
REPT.-0788-AST-1 N64-31585 23-13

THERMAL EFFICIENCY AND TRANSMISSIVITY OF ABLATING HEAT SHIELD MATERIALS
NASA-TN-D-1896 N64-33601 24-13

THERMAL CONDUCTIVITY OF ABLATING SLAB WITH MIXED TIME-DEPENDENT BOUNDARY CONDITIONS EXPRESSED AS NUMERICAL SOLUTION OF FIRST-ORDER NON-LINEAR DIFFERENTIAL EQUATION
R-62-26 N64-33833 24-13

ABLATION
CF AERODYNAMIC HEATING
CF COOLING
CF SUBLIMATION
CF VAPORIZATION
ABLATION RATE OF INORGANIC FIBER REINFORCED PLASTICS EXPOSED IN ROCKET JETS
CPD-61 N64-11241 02-13

METHOD FOR CALCULATING RATES OF MATERIAL ABLATION IN ROCKET NOZZLES
AIAA PAPER-64-101 N64-14852 06-13

PHOTOMETRY, DIMENSIONS, AND ABLATION RATE OF COMETS N64-15601 07-05

IBM 7090 FORTRAN PROGRAM TO DETERMINE TRANSIENT AERODYNAMIC HEATING AND ABLATION OF VEHICLES IN ARBITRARY FLIGHT TRAJECTORIES
SSD-TDR-63-159 N64-15960 07-13

AERODYNAMIC SPATTERING IN ABLATION OF LIQUID FILMS AS RELATED TO SURFACE TENSION
RR-TR-63-24 N64-16471 08-13

HEAT AND MASS TRANSFER EQUATIONS FOR GRAPHITE ABLATION AT ELEVATED TEMPERATURES
R63SD89 N64-17782 09-13

ULTRAVIOLET PHOTODIODE SENSITIVE ONLY TO LIGHT OF WAVELENGTH LESS THAN 3050 ANGSTROMS FOR STUDYING ABLATION PHENOMENA
GA-4611 N64-21120 14-09

ABLATION PROPERTIES OF TEFLON ON BLUNTED CYLINDER FLARE CONFIGURATION DURING HYPERSONIC FLIGHT
NASA-TN-D-2354 N64-25189 17-30

SOLUTION OF ABLATION PROBLEM - NONLINEAR INTEGRAL EQUATION
RM-4067-PR N64-25580 17-20

SYSTEM FOR NUCLEAR AUXILIARY POWER-10A /SNAP-10A/ DURING ORBITAL REENTRY - DETERMINATION OF REACTOR COMPONENT ABLATION
NAA-SR-9723 N64-27330 19-06

HEAT-TRANSFER RATES AND ABLATION ON BLUNT FLARED CYLINDER IN FREE FLIGHT AT HYPERSONIC AND LOWER SPEEDS
NASA-TN-D-2383 N64-27505 19-13

AERODYNAMIC ABLATION OF METAL SPHERE AT HYPERSONIC SPEEDS
NRL-5953 N64-31689 23-13

FILM COOLING, NOZZLE EXPANSION, COMBUSTION INSTABILITY, AND ABLATIVE COOLING IN ROCKET THRUST CHAMBERS
REPT.-212/SA3-2.2-M-3 N64-32173 23-17

ABLATION SENSORS FOR MEASURING POSITION AND MOVEMENT OF INTERNAL DEGRADATION ZONES IN PHENOLIC-GRAPHITE HEAT SHIELDS
SSD-TDR-64-173 N64-32525 23-15

IGNITION AND ABLATION RESPONSES OF CELLULOSIC MATERIALS TO HIGH RADIANT HEAT LOADS
WSS/CI PAPER-64-8 N64-32930 24-26

ABLATION FROM LEXAN SPHERES AND CONES AT HYPERSONIC SPEED - RELATION BETWEEN MASS AND HEAT TRANSFER RATES FROM ANALYSES OF BOUNDARY LAYER
CARDE-TR-511/64 N64-33143 24-13

THERMAL ENVIRONMENT AND PROTECTION OF STRUCTURES BY ABLATIVE TECHNIQUES - ANNOTATED BIBLIOGRAPHY
PIBAL-686 N64-33318 24-13

ABLESTAR LAUNCH VEHICLE
EPHEMERIS OF KINETHEODOLITE OBSERVATIONS OF SATELLITES - MIDAS VII, ATLAS AGENA B, AND ABLESTAR N64-33447 24-08

ABORT APPARATUS
CAPTIVE DYNAMIC-STABILITY TESTS OF GEMINI ABORT SEAT CONFIGURATION MODEL IN SUPERSONIC WIND TUNNEL
NASA-CR-59057 N64-33216 24-10

ABRASION
SA GRINDING
SKID ABRASION RESISTANT MATERIALS
A480 N64-17138 09-18

HEAT AND ABRASION RESISTANT PROPERTIES OF SILICON-NITROGEN COMPOUNDS FOR PROTECTIVE COATINGS
REPT.-6784-1533-V N64-27643 19-17

STRUCTURAL FAILURES OF AIRCRAFT CAUSED BY FATIGUE, CORROSION, AND ABRASION
TRECOM-TR-64-36 N64-30118 21-04

ABRASIVE
SA CORUNDUM
SA DIAMOND
CF QUARTZ
DEVICE FOR REMOVING SINTER FROM SURFACE OF STEEL HOT-ROLLED BAND WITH ABRASIVE MATERIAL
FTD-TT-62-1291/1&2 N64-22150 15-17

ABSORBER
CALORIMETRIC DEVICE FOR DETERMINATION OF SOLAR ABSORPTION & INFRARED EMITTANCE RATIO OF MATERIALS AT ROOM TEMPERATURE N64-10945 02-13

SPECTRAL DIFFUSE REFLECTANCE AND SIMULATED SOLAR ABSORPTANCE MEASUREMENTS FOR DETERMINATION OF SOLAR ABSORPTANCE OF SPACECRAFT MATERIALS N64-10946 02-20

SOLAR ABSORPTANCE, EMITTANCE, & TRANSMITTANCE OF THERMAL CONTROL COATING FOR SPACECRAFT N64-10953 02-13

LANDAU THEORY OF ENERGY STRAGGLING IN SERIES OF ABSORBING LAYERS
AFCRL-63-558 N64-13771 04-23

REDUCTION OF URANIUM HEXAFLUORIDE RETENTION ON MAGNESIUM FLUORIDE ABSORBERS USED IN REMOVAL OF TECHNETIUM HEXAFLUORIDE
ORNL-3544 N64-14888 06-07

DEVELOPMENT OF SPACE-STABLE THERMAL CONTROL COATINGS WITH LOW SOLAR ABSORPTANCE-EMITTANCE RATIOS
NASA-CR-55826 N64-16715 08-19

RADAR-PLASMA ABSORPTION EFFECT - REDUCTION OF RADAR CROSS SECTION OF BODY SURROUNDED BY PLASMA SHEATH
TR63-217A N64-20562 13-24

MEASUREMENT OF QUICKLY-CHANGEABLE PRESSURES IN INTERNAL COMBUSTION ENGINE - CHARACTERISTICS OF ELECTRIC PRESSURE ABSORBERS UNDER STATIC LOAD
DFL-194 N64-21706 15-27

CALCULATION OF INTEGRAL MULTIPLICITY OF MU-MESON PRODUCTION IN ATMOSPHERE FOR OBSERVATION UNDER DIFFERENT THICKNESSES OF ABSORBER N64-25939 18-20

WIDEBAND ABSORBER FOR ELECTROMAGNETIC WAVES
TIL/T-5381 N64-27172 19-08

ESCAPE PROBABILITY APPROXIMATIONS IN LUMPED RESONANCE ABSORBERS
NAA-SR-9744 N64-28129 20-23

RADAR ABSORPTION EFFECT CAUSED BY VERY THIN PLASMA SHEATHS
CTN64-02 N64-31136 22-24

ABSORPTION
SA ATMOSPHERIC ABSORPTION
SA ELECTROMAGNETIC ABSORPTION
SA IONOSPHERIC ABSORPTION
SA OPTICAL ABSORPTION
SA POLAR CAP ABSORPTION
SA RADIATION ABSORPTION
SA RADIO SIGNAL ABSORPTION
PARTICLE CURRENT ACROSS BOUNDARY SURFACE OF UNIFORMLY EMITTING AND SELF-ABSORBENT INFINITE CIRCULAR CYLINDER
EUR-205.F N64-10464 01-23

METEOROLOGICAL STUDIES - SATELLITE MICROWAVE

INSTRUMENTATION, RADIOMETRY, AND ABSORPTION & EMISSION CHARACTERISTICS
NASA-CR-52130 N64-10911 02-01

RIOMETRIC OBSERVATIONS IN ANTARCTICA TO PROVIDE ABSORPTION DATA DURING SOLAR COSMIC RAY EVENTS
DOUGLAS PAPER-1655 N64-11285 02-12

CARBON DIOXIDE ABSORPTION BY WATER IN VENTURI GAS-LIQUID CONTACTOR - MASS TRANSFER
N64-11653 03-11

ABSORPTION OF NITROGEN, HYDROGEN, AND CARBON GASES BY NIOBIUM TANTALUM
FTD-TT-62-1764/1&2 N64-12313 03-23

ANIMAL ABSORPTION OF RADIONUCLIDES
EUR-368.D N64-12474 04-07

POLARIZED PHOSPHORESCENCE AND CORRELATION BETWEEN DICHROISM OF PHOSPHORESCENCE AND ABSORPTION
E-T-F-C-63-1 N64-13126 04-25

SPECULAR REFLECTION & ABSORPTION OF RUTILE AND GROWTH OF CRYSTALS BY FLAME FUSION
MIT-TR-184 N64-15011 07-01

SPECULAR REFLECTANCE ON SINGLE CRYSTALS AND ABSORPTION ON THIN FILMS OF RUTILE
N64-15012 07-23

SILICON, NITROGEN, AND OXYGEN IMPURITIES EFFECT ON CORROSION AND HYDROGEN ABSORPTION OF ZIRCALOY-2
WAPD-283 N64-16259 08-18

PYROMETER CORRECTION DUE TO DIMER ABSORPTION IN CESIUM VAPOR
AFCRL-64-208 N64-16625 08-23

PHYSICAL CONDITIONS IN SOLAR PROMINENCES THROUGH SPECTROGRAMS OF EMISSION LINES WITH SELF-ABSORPTION
T-R-84 N64-16961 09-28

ABSORPTIVE ACTIVITY OF COPPER & ALUMINUM BASED ALLOYS WITH SMALL ADMIXTURES N64-17057 09-23

DIFFUSION AND ABSORPTION OF GASES IN PLASTIC-WALLED IONIZATION CHAMBERS N64-17109 09-23

ABSORPTION OF INERT GASES FROM SUBCUTANEOUS GAS POCKETS IN RATS DURING RESPIRATION
N64-17947 10-16

CALCULATION OF ABSORPTION RATE OF ELECTRONS IN ATOMIC OUTER ENERGY LEVELS
JPRS-24099 N64-17977 10-16

MILLIMETER-WAVE AMPLIFICATION PRODUCED BY RESONANCE ABSORPTION OF GAS
RADC-TDR-63-562 N64-18363 10-09

RUBIDIUM IN AGRICULTURALLY IMPORTANT MATERIALS THROUGH ATOMIC ABSORPTION - FLAME PHOTOMETRY
NIJS-R-425 N64-21698 15-16

ABSORPTION MEASUREMENTS WITH RIOMETER - DATA SUMMARY FOR MARCH - AUGUST 1963
LAFE-9 N64-22010 15-15

TEMPERATURE AND EFFICIENCY DETERMINATION OF LIGHT SOURCE BY CHANGE IN ABSORPTION CAPACITY OR LUMINESCENCE OF SUBSTANCE
FTD-TT-64-153/1&2 N64-22667 15-23

PROPAGATION IN ABSORBENT MATERIAL LINED CAVITIES
N64-22842 16-09

ELECTROMAGNETIC WAVES IN PLASMAS - LANDAU ABSORPTION IN PLASMA HAVING NO MAGNETIC FIELD
NASA-TT-F-9001 N64-23053 16-24

MOMENTS OF ABSORPTION TIME IN FINITE MARKOV CHAIN
BU-163-M N64-23922 16-20

ENERGY TRANSFER ABSORPTION BY URANYL ION TO NEODYMIUM ION CAUSING NEODYMIUM-3 ION LUMINESCENCE IN BARIUM CROWN GLASS HOST MATRIX
NRL-1525 N64-27523 19-25

OBSERVATION OF IRON OXIDE IN ABSORPTION BY FLASH HEATING AND KINETIC SPECTROSCOPY
N64-27796 19-07

ELECTROMAGNETIC WAVE MATCHING AND ABSORBING MATERIALS
ASR-4 N64-29952 21-25

HYSTERESIS-FREE AND THEORETICALLY PREDICTABLE LIQUID PHASE ABSORPTION HYGROMETER
AFCRL-64-493 N64-29981 21-15

ELECTROMAGNETIC THEORY - PRINCIPLE OF LIMITING ABSORPTION
EM-191 N64-31261 22-23

PRINCIPLE OF MAXIMUM ABSORPTION IN THEORY OF ELASTICITY N64-31753 23-23

EFFECT OF SECOND CLASS AXIAL CURRENT ON RADIATIVE MUON ABSORPTION BY NUCLEI
LNF-64/27 N64-32001 23-23

EXPONENTIAL MODEL FOR DETERMINING ABSORBED DOSAGE OF RADIOISOTOPE IN HUMAN BODY
FTD-TT-63-923/1&2 N64-32662 23-16

ABSORPTION & PHOTOIONIZATION CROSS SECTIONS OF ATMOSPHERIC GASES
NASA-CR-59021 N64-32895 24-28

SPONTANEOUS CHARGE RELEASE AND ABSORPTION IN PIEZOELECTRIC CERAMICS
SUFFIELD-TN-137 N64-33002 24-15

INFRARED ABSORPTION SPECTRA & PROTON NUCLEAR MAGNETIC RESONANCE SPECTRA OF METALLIC ACETATE COMPLEXES
NASA-CR-59032 N64-33167 24-07

RELATIVE NEUTRON ABSORPTION RATES AND X-RADIATION USED FOR INSPECTION OF THICKNESS, DETECTION OF HYDROGEN, BORON, & LITHIUM, AND RADIOGRAPHIC DISCRIMINATION IN HEAVY MATERIALS
ANL-6846 N64-33235 24-23

ABSORPTION OF RUBY LASER ROD
NASA-CR-59314 N64-33806 24-25

ABSORPTION BAND
ABSORPTION OF SHORT WAVELENGTH SOUND WAVES BY SOLIDS
E-T-G-63-24 N64-15372 07-23

K-BAND ABSORPTION MODULATOR FOR HIGH SPEED SWITCHING OR AMPLITUDE MODULATION OF MICROWAVE POWER
TR-1151 N64-19240 11-15

INFRARED ABSORPTION BANDS FOR NITROGEN-HYDROGEN AND PHOSPHORUS-HYDROGEN BONDS
AD-434269 N64-21321 14-07

INFRARED STUDY OF EMISSION CHARACTERISTICS OF ORGANIC SOLIDS WITH STRONG ABSORPTION BANDS
NASA-CR-56284 N64-22456 15-07

ABSORPTION BANDS OF NITROGEN FLUORIDE PRODUCED BY FLASH PHOTOLYSIS OF NITROGEN DIFLUORIDE AND EMISSION BANDS OF NITROGEN FLUORIDE PRODUCED BY FAST CAPACITOR DISCHARGE
TM-1531 N64-25578 17-07

SMOOTHED VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE FROM OBSERVATIONS OF INFRARED ABSORPTION AND EMISSION
AFCRL-64-88 N64-25857 18-05

CONTRIBUTION OF SPECTRAL ABSORPTION LINES TO OPACITY OF MATTER IN STELLAR INTERIORS
NASA-RP-254 N64-25974 18-29

HIGH RESOLUTION MICROWAVE SPECTRA OF HYDROGEN AND HYDROXYL ABSORPTION LINES OF CASSIOPEIA A
N64-26301 18-05

PRINCIPAL INFRARED ABSORPTION BANDS OF DERIVATIVES OF DINITROBENZENE AND TRINITROBENZENE
NOLTR-64-62 N64-29621 21-07

CHARACTERISTIC ABSORPTION BAND FEATURES IN INFRARED SPECTRA OF TRANSITION METAL ALKOXIDES
ML-TDR-64-124 N64-29901 21-07

INTERSTELLAR ABSORPTION BANDS PRODUCED BY PLASMA RESONANCE IN COATED SODIUM
NASA-CR-59170 N64-33119 24-25

ABSORPTION COEFFICIENT
APPARATUS FOR MEASURING EMITTANCE AND ABSORPTIVITY OF SATELLITE TEMPERATURE CONTROL SURFACES
N64-10944 02-13

ABSORPTION COEFFICIENT OF NITROGEN DIOXIDE FOR WAVELENGTHS BETWEEN 2500 AND 8000 ANGSTROMS AT HIGH TEMPERATURES
DASA-1416 N64-11463 03-23

ABSORPTION COEFFICIENT, ELECTRON DENSITY, AND COLLISION RATE OF HELIUM PLASMA WITH ARGON TRACE AT HIGH MICROWAVE FIELD INTENSITIES
N64-14222 06-24

ELECTRONIC DIGITAL COMPUTER CALCULATION OF CHLORINE CONTINUOUS ABSORPTION COEFFICIENT
SSD-TDR-63-251 N64-14306 06-23

INTEGRATED INTENSITY AND SPECTRAL ABSORPTION COEFFICIENT OF WATER VAPOR AT TEMPERATURES TO 1000 DEG. K.
N64-15002 07-23

SPECTRAL ABSORPTION COEFFICIENTS OF LIQUID WATER AT TEMPERATURES BETWEEN 27 AND 209 DEG. C.
N64-15004 07-23

APPROXIMATE CALCULATIONS OF WATER VAPOR SPECTRAL ABSORPTION COEFFICIENTS AT ELEVATED TEMPERATURES
N64-15005 07-23

ABSORPTION COEFFICIENTS FOR PHASE SHIFT ANALYSIS OF PION SCATTERING IN PION-PION ENERGY LEVEL
RIFP-30 N64-15772 07-23

EQUATION FOR DETERMINATION OF OPTICAL ABSORPTION COEFFICIENT
AFCRL-63-325/2/ N64-18941 11-23

ABSORPTION AND SCATTERING COEFFICIENTS OF PLANE ELECTROMAGNETIC WAVE IMPINGING ON SPHERICAL SHELL
N64-22839 16-09

MEASUREMENT OF RADIO WAVE ABSORPTION COEFFICIENT IN ATMOSPHERE AT DECIMETER WAVELENGTH
N64-23786 16-05

EFFECTS OF ERRORS IN ABSORPTION COEFFICIENT ON NON-GREY MODEL STELLAR ATMOSPHERE
SUI-64-3 N64-25098 17-29

DEPENDENCE OF TOTAL ABSORPTANCE OF CARBON MONOXIDE ON ABSORBER CONCENTRATION, PRESSURE, AND TEMPERATURE
AFCRL-64-448 N64-26242 18-07

SCATTERING PARAMETERS OF POLYDISPERSED HYDROMETEORS - SCATTERING & ABSORPTION COEFFICIENTS OF RAINDROPS
P-2914 N64-26448 18-08

ABSORPTIVITY DETERMINATIONS FROM REFLECTIVITY MEASUREMENTS INCLUDING BOTH DIFFUSE AND SPECULAR REFLECTION
ARC-CP-601 N64-28030 20-23

ABSORPTION CORRECTION TABLES FOR MICROPROBE ANALYSIS
NLCO-914 N64-31470 23-23

ATMOSPHERIC EXTINCTION AND ALTITUDE VARIATION OF RAYLEIGH SCATTERING, AEROSOL ATTENUATION, AND OZONE ABSORPTION COEFFICIENTS IN ULTRAVIOLET REGION
AFCRL-64-400 N64-31804 23-21

ABSORPTION CROSS SECTION
ABSORPTION CROSS SECTION OF ARGON & METHANE IN 600 TO 200 ANGSTROM REGION
NSL-TM-63-187 N64-14933 06-23

ABSORPTION CROSS SECTIONS OF HELIUM, NEON, ARGON, KRYPTON, AND XENON FROM PHOTOIONIZATION THRESHOLDS TO 280 ANGSTROM UNITS
GCA-TR-64-3-N N64-17671 09-23

REGULARITIES IN THERMAL NEUTRON ABSORPTION CROSS SECTIONS
NRL-6124 N64-29958 21-23

ABSOLUTE PHOTOIONIZATION AND ABSORPTION CROSS SECTIONS OF OXYGEN AND NITROGEN
ATN-63/9218/-4 N64-32657 23-11

SPACE LIFETIMES IN PARENT MOLECULES OF COMET RADICALS ESTIMATED FROM ABSORPTION CROSS SECTIONS & SOLAR ULTRAVIOLET FLUX
NASA-RP-351 N64-33988 24-29

ABSORPTION SPECTRUM
K-ABSORPTION SPECTRA AND MAGNETIC SUSCEPTIBILITY OF CHROMIUM COMPOUNDS N64-10672 02-19

OXYGEN EMISSION & ABSORPTION SPECTRUM
N64-10912 02-23

INVERSION PROCESS BASED ON THERMAL RADIATION SENSING IN OXYGEN ABSORPTION BAND FOR TEMPERATURE MEASUREMENT N64-10913 02-12

ABSORPTION AND EMISSION SPECTRUM OF ATMOSPHERIC WATER VAPOR IN K-BAND N64-10915 02-21

MULTIPLIER-TYPE PHOTOMETER WITH WIDE DYNAMIC RANGE FOR ABSORPTION SPECTROSCOPY N64-10949 02-15

VISIBLE AND INFRARED ABSORPTION SPECTRA OF SINGLE CRYSTAL AND POLYCRYSTALLINE URANIUM DIOXIDE
HW-79033 N64-11209 02-23

RADIO OBSERVATIONS OF HYDROXYL ABSORPTION SPECTRUM FROM CASSIOPEIA A
NASA-CR-52852 N64-11379 02-28

TEMPERATURE & MAGNETIZATION INFLUENCE IN SELECTIVE ABSORPTION AND FLUORESCENCE SPECTRA
E-T-G-63-6 N64-12199 03-23

LINE EMISSION AND ABSORPTION OF CHROMIUM PHOSPHORES - ZEEMAN EFFECT
E-T-G-63-19 N64-12279 03-23

ULTRAVIOLET ABSORPTION SPECTRUM OF METHYL-METHOXY-PENTANONE
TDR-269/4240-30/-2 N64-12662 04-19

ABSORPTION SPECTRUM OF CESIUM IN PRESENCE OF ISOMERIC HYDROCARBONS N64-13159 04-23

ABSORPTION, FLUORESCENCE, AND LASER RADIATION SPECTRA FOR SOME COMMERCIAL LASER CRYSTALS
N64-13238 04-25

OPTICAL SPECTRUM ANALYSIS OF TRIVALENT ERBIUM IONS EMBEDDED IN CRYSTALLINE LANTHANUM FLUORIDE
TDR-169/3250-24/TN-4 N64-13778 04-25

ATOMIC ABSORPTION SPECTROMETRY & NEUTRON ACTIVATION ANALYSIS OF OILS
TRECOM-TR-63-55 N64-14170 05-04

ANOMALOUS INCLINATION OF AMMONIA SPECTRAL ABSORPTION LINES IN PLANETARY ATMOSPHERE OF JUPITER N64-14515 06-05

ANOMALOUS INCLINATION OF AMMONIA SPECTRAL ABSORPTION LINES IN PLANETARY ATMOSPHERE OF JUPITER N64-14515 06-05

ULTRAVIOLET ABSORPTION SPECTRA OF STEROID AND CATECHOLE DERIVATIVES
ARL-TDR-63-29 N64-14971 06-14

RADIO OBSERVATION OF HYDROXYL RADICAL IN ABSORPTION SPECTRUM OF CASSIOPEIA A
N64-15157 07-07

ORIGIN AND ABUNDANCE OF ELEMENTS OBSERVED BY EMISSION AND ABSORPTION SPECTRA
N64-15291 07-12

INFRARED ABSORPTION CHARACTER OF UPPER ATMOSPHERE
N64-15411 07-21

K-ABSORPTION EDGE OF CHROMIUM DURING PHASE TRANSFORMATIONS OF IRON-CHROMIUM ALLOYS
N64-16222 08-23

COMPARISON OF ABSORPTION SPECTRA OF VOLCANIC FLAME AND SMOKE WITH SPECTRA OF MARS & VENUS ATMOSPHERES
FTD-TT-63-305/1&4 N64-16362 08-05

SPECTRAL ABSORPTION AND PHOTOCHEMICAL STUDY OF CHLOROPHYLL DERIVATIVES DISSOLVED IN WATER MEDIUM
FTD-TT-63-1008/1&2&4 N64-16430 08-07

CHINESE REPORTS ON LASERS, RUBY ABSORPTION LINES, BORON PHOSPHIDE DECOMPOSITION, CHARGED PARTICLE MOVEMENT, AND MATHEMATICAL MODELS IN CHEMISTRY
JPRS-23767 N64-17342 09-01

RUBY S-SERIES ABSORPTION SPECTRAL LINE SERIES - RELATED TO CHROMIUM-ION ENERGY-LEVEL SPLITTING
N64-17344 09-25

NARROW LINE PARAMAGNETIC RESONANCE ABSORPTIONS IN SINGLE CRYSTALS OF CALCITE
RADC-TDR-64-34 N64-18031 10-25

ABSORPTION SPECTRUM OF PINK AFTERGLOW OF NITROGEN IN VACUUM ULTRAVIOLET N64-18166 10-24

INFRARED ABSORPTION SPECTRUM ANALYSIS OF INORGANIC MOLECULES USING MATRIX ISOLATION TECHNIQUE
N64-18803 11-07

ULTRAVIOLET ABSORPTION SPECTRUM OF TETROL-ALDEHYDE - MOLECULAR ORBITAL THEORY OF DICHLORO-ETHYLENES - MICROWAVE SPECTROSCOPY
UCRL-11229 N64-18995 11-23

SPECTRAL ABSORPTION COEFFICIENT FOR HEATED AIR CALCULATIONS
REPT.-3-27-63-4 N64-19204 11-23

RADIATION PROPERTIES OF AIR AT 2000-8000 DEG K
AR-3997-ARPA N64-19561 12-23

ULTRAVIOLET ABSORPTION SPECTRA OF OXYGEN IN LIQUID AND CRYSTALLINE ARGON AND NITROGEN
N64-20596 13-23

ULTRAVIOLET ABSORPTION SPECTRA OF RUBY CRYSTALS
AFCRL-63-581 N64-20865 14-25

INFRARED ABSORPTION SPECTRUM OF CERIUM /VALENCE 3/ IN SILICA AND BORAX GLASS N64-20928 14-23

RELATIONSHIP OF ELECTRONIC TRANSITIONS IN POLYATOMIC MOLECULES TO ABSORPTION SPECTRA
ARL-63-2481 N64-21022 14-23

SOLUBILITY OF ZINC OXIDE IN VARIOUS SOLUTIONS - DETERMINATION BY ATOMIC ABSORPTION SPECTROSCOPY
ARL/MET-17 N64-21052 14-07

X-RAY K ABSORPTION SPECTRUM OF NICKEL-ALUMINUM ALLOYS
TR-64-1 N64-21535 15-23

INTENSITY OF ATMOSPHERIC LIGHT SCATTERING IN ULTRAVIOLET REGION WITH ABSORPTION BY OZONE AND OXYGEN
LAS-TR-199-48 N64-21560 15-12

HYDROXYL ABSORPTION SPECTRUM IN SAGITTARIUS REGION OF GALAXY
HRAP-114 N64-24222 16-05

INFRARED ABSORPTION SPECTRUM OF WATER IN LIQUID STATE
NASA-TT-F-211 N64-24834 17-07

PERTURBATION OF SPECTRAL FREQUENCIES BY SOLID MATRICES - ABSORPTION OF KRYPTON AT LIQUID HYDROGEN TEMPERATURE
QTSR-2 N64-25039 17-23

ABSORPTION SPECTRUM AND DISSOCIATION ENERGY OF GASEOUS CHLORINE FLUORIDE IN GROUND STATE
RSIC-183 N64-25220 17-07

VISIBLE ABSORPTION SPECTRA OF CADMIUM IN CADMIUM HALIDES AND LEAD CHLORIDE AND IN LEAD BROMIDE
NASA-RP-247 N64-26074 18-19

MEASUREMENT OF CONTINUOUS X-RAY SPECTRA USING ABSORPTION METHOD
AFWL-TDR-64-36 N64-26177 18-23

THEORETICAL CALCULATION OF SPECTRAL ABSORPTION COEFFICIENT PRODUCED BY BOUND-FREE AND FREE-FREE TRANSITIONS IN PLASMAS CONTAINING POLYELECTRONIC ATOMS AND IONS N64-26287 18-24

APPLICATION OF INFRARED ABSORPTION SPECTROSCOPY TO CHEMICAL INDUSTRY N64-27130 19-07

INFRARED ABSORPTION SPECTROSCOPY FOR QUANTITATIVE AND QUALITATIVE ANALYSIS N64-27131 19-07

PERTURBATION OF ABSORPTION SPECTRA OF CRYSTALLINE ARGON AND KRYPTON IN VACUUM ULTRAVIOLET BY INTERSTITIAL ATOMS OF XENON
QTSR-1 N64-27196 19-23

ANOMALY IN BEHAVIOR OF AMMONIA BANDS IN PLANET JUPITER ABSORPTION SPECTRUM
NASA-TT-F-8927 N64-27508 19-05

ABSORPTION SPECTRUM OF CESIUM VAPOR FOR PRESSURE RANGE OF THERMIONIC CONVERTER
EOS-3130, FINAL N64-27547 19-24

ELECTRONIC ABSORPTION SPECTRUM OF NITROGEN-FLUORIDE RADICAL PRODUCED BY PHOTOLYSIS OF NITROGEN DIFLUORIDE
EXP-452/223/ N64-27773 19-07

PERTURBATION OF SPECTRAL ABSORPTION LINES IN VACUUM ULTRAVIOLET BY SOLID MATRICES
AD-601539 N64-27775 19-07

EFFECT OF FOREIGN GAS ON DISPLACEMENT OF LINES IN ABSORPTION SPECTRUM OF ATOMS - WIDTH OF ENERGY LEVELS OF AN ATOM WITH HIGH PRINCIPLE QUANTUM NUMBER
AID-T-64-18 N64-28072 20-23

ABSORPTION AND FLUORESCENCE SPECTRA OF EUROPIUM IN SINGLE CRYSTAL YTTRIUM OXIDE
SSD-TDR-64-113 N64-28537 20-25

ABSORPTION OF ULTRASONIC WAVES IN LITHIUM FLUORIDE CRYSTALS
NASA-CR-58584 N64-29008 20-25

FILING OF MOLECULAR ABSORPTION SPECTRA DATA IN INFRARED REGION - DATA HANDLING SYSTEMS
N64-29065 21-23

SIZE AND SHAPE EFFECTS ON LATTICE VIBRATION SPECTRUM AND RESULTING FAR INFRARED ABSORPTION
N64-29483 21-23

THEORY OF SELECTIVE INTERSTELLAR ABSORPTION USED TO DETERMINE DISTANCES OF REMOTE STARS
FTD-TT-63-793/1&2 N64-29589 21-05

ABSORPTION OSCILLATOR STRENGTHS OF SPECTRAL LINES FROM MEDIUM AND LIGHT ELEMENTS
NRL-6085 N64-29954 21-23

VISIBLE ABSORPTION SPECTRA OF LITHIUM, SODIUM, AND POTASSIUM IN MOLTEN LITHIUM CHLORIDE-POTASSIUM CHLORIDE
NASA-RP-322 N64-31005 22-07

QUANTITATIVE DETERMINATION OF DOUBLE BONDS IN UNSATURATED SILICO-ORGANIC COMPOUNDS BY INFRARED ABSORPTION SPECTROSCOPY
FTD-TT-64-458 N64-31978 23-07

INFLUENCE OF TEMPERATURE AND MAGNETIZATION IN SELECTIVE ABSORPTION AND FLUORESCENCE SPECTRA
E-T-G-63-7 N64-32132 23-25

PRESSURE INDUCED SHIFTS OF ABSORPTION LINES IN INFRARED SPECTRUM

AFCRL-64-629 N64-32150 23-07

ELECTRON SPIN RESONANCE AND ULTRAVIOLET SPECTRA OF ION SOLVENTS
AD-449206 N64-32516 23-07

STELLAR ATMOSPHERIC ABSORPTION SPECTRUM - ANALYSIS OF LINE WIDTH AND INTENSITY
AD-423935 N64-33112 24-05

ABSORPTION AND EMISSION SPECTRA STUDIES OF CALCIUM FLUORIDE AND CADMIUM FLUORIDE CRYSTALS DOPED WITH TRANSITION METAL AND/OR RARE EARTH IONS FOR USE AS LASER HOSTS
AD-446246 N64-33749 24-25

ABSTRACTS
CF BIBLIOGRAPHY
BIBLIOGRAPHY AND ABSTRACTS - AIRCRAFT CRASH, FIRE, RESCUE, AND EVACUATION TECHNOLOGY
ADS-16 N64-33245 24-04

ABSTRACTS ON INVERTEBRATE AND VERTEBRATE BEHAVIOR, PHYSIOLOGY, ENDOCRINOLOGY, GENETICS, EMBRYOLOGY, EVOLUTION, AND CELL BIOLOGY
NASA-CR-59307 N64-33513 24-16

ACCELERATION
SA MAGNETOHYDRODYNAMIC ACCELERATION
SA PARTICLE ACCELERATION
SA PLASMA ACCELERATION
CF DECELERATION
CF MOTION
CF VELOCITY
ACCELERATION-OF-GRAVITY MEASUREMENTS BY SUBMARINE GRAVIMETERS
JPRS-17587 N64-10700 02-23

ACCELERATION HODOGRAPH USED TO OBTAIN TRANSFORMED EQUATIONS OF MOTION FOR SPACE VEHICLES UNDER GRAVITATIONAL ATTRACTION
NASA-CR-52873 N64-11262 02-29

REDUCED ACCELERATIONS IN TANGENTIAL COORDINATES
MH-TRANS-424 N64-11570 03-20

ACCELERATION OF CELESTIAL BODY FROM CURVILINEAR MOTION OF CENTER OF GRAVITY OF TWO-BODY SYSTEM
MH-TRANS-419 N64-11627 03-04

EXCLUSION OF ANGULAR ACCELERATIONS AS PRINCIPAL CAUSE OF VISUAL ILLUSIONS DURING PARABOLIC FLIGHT MANEUVERS
SAM-TDR-63-78 N64-12677 04-16

SPREADING OF CIRCULAR ELECTRON BEAM IN ACCELERATING FIELD UNDER SPACE-CHARGE REPULSION
LL-TR-308 N64-12930 04-09

LIGHT GAS HYPERSONIC ACCELERATOR WITH CONSTRICTED BORE ACCELERATION AUGMENTATION N64-13517 05-23

ELECTRICAL PRESSURE PICKUP USED IN TACHOMETER TO MEASURE GYROSCOPIC SPEED AND ACCELERATION CHANGES
N64-13572 05-15

VISCOELASTIC ANALYSIS OF STRUCTURAL INTEGRITY OF AXIALLY ACCELERATED ROCKET WITH ABLATING BOUNDARY EFFECT
AIAA PAPER-64-151 N64-14855 06-13

CONTINUOUS WAVE DOPPLER RADAR STATIONS FOR DETECTION OF AUTO ACCELERATIONS
N64-15149 07-08

FREQUENCY RESPONSE OF HUMAN SEMICIRCULAR CANALS TO ANGULAR ACCELERATION USING NYSTAGMUS TRANSITION TECHNIQUE
NASA-CR-55624 N64-15540 07-16

ACCELERATION DATA TRANSMITTER - TUBE FILLED WITH SILVER NITRATE GRAVIOPOLARIZING SOLUTION
FTD-TT-63-658/1 N64-16384 08-15

HOLLOW SPHERE BOUND WITH RADIOACTIVE RADIATION RECEIVERS FOR MEASURING COMPONENTS OF ACCELERATION VECTOR
FTD-TT-63-599/1&2 N64-16428 08-15

SIMULATION OF LIFT-INDUCED ACCELERATION AND TRUE SPEED ON PILOT OPINION OF LONGITUDINAL FLYING QUALITIES
ASD-TDR-63-399 N64-16647 09-10

ACCELERATION RESPONSE OF JET TRAINER AIRCRAFT TO RUNWAY ROUGHNESS
NASA-TN-D-2203 N64-20189 13-10

THRESHOLD OF VISUAL DETECTION OF ACCELERATED MOTION
AFOSR-64-0189 N64-21381 14-14

MEASURING APPARATUS FOR LINEAR ACCELERATIONS
FTD-TT-62-860/1&2 N64-22152 15-15

OPTIMUM ACCLERATION OF ELECTRIC MOTOR FOR PROGRAMMED CONTROL SYSTEMS N64-23537 16-09

MEASURING LOW FREQUENCY ACCELERATIONS ACCOMPANIED BY HIGH FREQUENCY PARASITIC OSCILLATIONS
N64-23543 16-09

FINDING ACCELERATION OF POINT WITHIN BODY IN PLANE PARALLEL MOTION N64-23568 16-02

PHYSIOLOGICAL RESPONSE OF HUMAN BODY TO ACCELERATION N64-23697 16-16

FORMULAS FOR TURBOJET ENGINE ACCELERATION TIMING REGULATORS N64-25435 17-27

SUPERPOSITION PRINCIPLE APPLIED TO PREDICTION OF SHIP ACCELERATION AND MOTION
AD-426706 N64-25798 17-11

HYDROSTATIC STABILITY OF LIQUID-VAPOR INTERFACE IN LOW-ACCELERATION FIELD
NASA TN D-2444 N64-27124 19-11

ANGULAR VELOCITY AND ACCELERATION PICKUP WITH TWO GYROSCOPES
FTD-TT-64-238/1&2&4 N64-27650 19-15

STABILITY OF LIQUID LAYER OF UNIFORM THICKNESS SPREAD OVER RIGID CIRCULAR CYLINDER SUBJECTED TO LATERAL ACCELERATIONS
NASA-TN-D-2450 N64-27951 20-11

EFFECT OF CORIOLIS ACCELERATION DURING ZERO GRAVITY FLIGHT ON CERTAIN HEMATOLOGICAL AND URINARY PARAMETERS IN NORMAL AND LABYRINTHINE DEFECTIVE SUBJECTS
NASA-CR-58675 N64-28876 20-14

EXPLOSIVE GAS GUN FOR VELOCITY SIMULATION OF MACROSCOPIC SPACE PARTICLES
NASA-CR-58677 N64-29406 21-01

SPEED, ACCELERATION, AND WEIGHTLESSNESS ASSOCIATED WITH AVIATION AND ASTRONAUTICS
FTD-MT-63-103 N64-29678 21-13

EFFECT OF REPEATED MILD ANGULAR ACCELERATIONS IN TOTAL DARKNESS ON HUMAN VESTIBULAR NYSTAGMUS WHILE SUBJECTS PERFORM ATTENTION-DEMANDING TASKS
CARI-63-29 N64-29847 21-14

ACCELERATIONS ON AIRCRAFT IN MANEUVERING FLIGHT
ARC-R&M-3372 N64-30025 21-04

ACCELERATION FACTOR OF THERMONUCLEAR REACTIONS IN COMPRESSED HYDROGEN PLASMA
NASA-TT-F-8961 N64-30854 22-24

ANALYSIS OF TWO-DIMENSIONAL SUPERCAVITATING FLAT PLATE OSCILLATING UNDER FREE SURFACE BY LINEAR ACCELERATION POTENTIAL
AD-603160 N64-31830 23-03

STABILITY, FAILURE RATE, ACCELERATION, AND MECHANICAL RUGGEDNESS OF SILICON PLANAR EPITAXIAL TRANSISTOR
AD-607294 N64-33555 24-17

ACCELERATION PROTECTION
S PRESSURIZED SUIT

ACCELERATION STRESS
CF AUTOKINESIS
CF G FORCE
REACTIONS TO ACCELERATION
JPRS-21908 N64-10383 01-14

STRESS ON HUMAN BODY BY ACCELERATION AND WEIGHTLESSNESS
JPRS-20345 N64-11137 02-14

URINE ULTRAFILTRATION FOR WATER RECOVERY USING MEMBRANE FILTERS
NASA-CR-51575 N64-11383 02-16

PHYSIOLOGY OF DOG RESPIRATORY AND CARDIOVASCULAR SYSTEMS DURING STRESS OF ACCELERATION
N64-11699 03-16

SPACE SYSTEM DESIGN OPTIMIZATION BASED ON HUMAN REQUIREMENTS DURING ACCELERATION
N64-11808 03-14

THEORY AND EXPERIMENTS ON PHYSIOLOGY OF FORWARD ACCELERATIONS N64-11852 03-14

EFFECT OF ACCELERATION STRESS & WEIGHTLESSNESS ON PHYSIOLOGICAL FUNCTIONS OF DOGS IN BALLISTIC ROCKET FLIGHTS N64-11860 03-16

HUMAN CENTRIFUGES & PHYSIOLOGICAL EFFECTS OF ACCELERATION - HUMAN PERFORMANCE & TOLERANCE, AND ANIMAL STUDIES
AGARDOGRAPH-48 N64-13451 05-01

HUMAN CENTRIFUGE FOR TESTING EFFICIENCY IMPAIRMENT UNDER ACCELERATION N64-13452 05-16

PHYSIOLOGICAL REACTIONS TO ACCELERATION STRESS AND PROTECTIVE CLOTHING N64-13453 05-16

PHYSIOLOGICAL EFFECTS OF ROTATIONAL ACCELERATION IN RELATION TO MOTION SICKNESS, SPATIAL DISORIENTATION, & BLACKOUT N64-13454 05-16

HUMAN TOLERANCE AND LIMITATIONS TO ACCELERATION
N64-13455 05-16

HUMAN CENTRIFUGE - INSTRUMENTATION IN ACCELERATION STRESS TESTING N64-13456 05-15

CENTRIFUGE AS FLIGHT SIMULATOR - RESTRAINT SYSTEMS AND PHYSIOLOGICAL REACTION TO ACCELERATION STRESS
N64-13457 05-16

ACCELERATION TOLERANCES ON CENTRIFUGE - ABILITY OF MAN TO PERFORM TOTAL TASK IN TOTAL ENVIRONMENT
N64-13458 05-16

RESTRAINT & PROTECTION OF HUMAN EXPERIENCING SMOOTH OR OSCILLATING ACCELERATIONS SIMULATING SPACE FLIGHT N64-13459 05-16

HUMAN TOLERANCE - RESPIRATORY IMPAIRMENT FROM FORWARD ACCELERATION N64-13460 05-16

RESPIRATORY PHYSIOLOGY DURING FORWARD ACCELERATION AND PROTECTIVE MEASURES N64-13461 05-16

REPEATED POSITIVE ACCELERATION OF LOW INTENSITY & LONG DURATION - ANATOMICAL STUDY OF DOG KIDNEY
N64-13462 05-16

CARDIOVASCULAR RESPONSE IN MAN DURING FORWARD ACCELERATION N64-13463 05-16

INCREASED HOST RESISTANCE TO ACCELERATION STRESS - DRUGS, CONDITIONING, HYPOPHYSECTOMY, RETICULO-ENDOTHELIAL STIMULATION N64-13464 05-16

CENTRIFUGES FOR STUDYING LONG TERM ACCELERATION STRESS ON MAN AND ANIMALS N64-13465 05-16

JET SEAT ACCELERATION CHARACTERISTICS DURING GROUND IMPACT
FDFR-TN-63-25 N64-14623 06-06

MATHEMATICAL MODEL OF HUMAN BODY FOR ASSESSMENT OF LOADS ON BODY DURING ACCELERATION
TECH. REPT.-115-2 N64-14779 06-16

ACCELERATION STRESS ON HUMAN PSYCHOPHYSIOLOGICAL BEHAVIOR
NADC-MA-6305 N64-15753 07-14

ACCELERATION OF SPHERICAL & CYLINDRICAL PARTICLES AND HYPERVELOCITY IMPACT
NASA-CR-55899 N64-16712 08-23

ACCELERATION STRESS MEASUREMENT ON CARDIO-RESPIRATORY SYSTEM BY DECREASES IN ARTERIAL OXYGEN CONCENTRATION
AMRL-TDR-63-104 N64-16806 08-16

EFFECTIVE MEANS OF INCREASING HUMAN ENDURANCE UNDER CONDITIONS OF ACCELERATION STRESS
FTD-MT-63-20/1 N64-18665 11-16

ELECTROENCEPHALOGRAPHIC CHANGES IN HUMANS DURING BLACKOUTS INDUCED BY ACCELERATION
NADC-ML-6402 N64-20450 13-16

PHYSIOLOGICAL REACTION OF HUMAN BODY DURING ACCELERATION DIRECTED ALONG SPINE-BREAST AXIS
FTD-TT-63-1095/1&2 N64-21941 15-16

HUMAN TOLERANCE TO TRANSVERSE ACCELERATION AND DECELERATION FORCES N64-22075 15-16

EFFECT OF TRANSVERSE ACCELERATION ON OXYGEN TENSION IN BRAIN TISSUE
FTD-TT-63-1215/1&2&4 N64-22665 15-16

BIOMEDICAL RESEARCH IN ACCELERATION, IMPACT, WEIGHTLESSNESS, VIBRATION, AND EMERGENCY ESCAPE AND RESTRAINT SYSTEM - BIBLIOGRAPHY
CARI-63-30 N64-22711 15-16

BIOLOGICAL RESPONSE TO CONTINUOUS ACCELERATIONS IN ORDER OF MAGNITUDE OF MICRO-G
NASA-CR-51180 N64-22776 16-16

EXPERIMENTAL BIOLOGY, IMMUNOLOGY, WEIGHTLESSNESS, AND ACCELERATION STRESS
FTD-TT-62-1164/1&2&4 N64-23454 16-16

ASTRONAUT BEHAVIOR ABOARD SATELLITE - REACTION TO WEIGHTLESSNESS, ACCELERATION, AND RADIATION HAZARD
N64-23638 16-16

NUCLEIC ACIDS AND CHLOROPHYLL BIOSYNTHESIS AND ELECTROMYOGRAMS UNDER ACCELERATION STRESSES
FTD-TT-63-1052/1&2 N64-23659 16-16

ELECTROMYOGRAM MEASUREMENT OF BIOELECTRIC CURRENT AS MEASURE OF HUMAN MUSCLE TONUS AND EFFECTS OF WEIGHTLESSNESS AND INCREASED ACCELERATION STRESS
N64-23661 16-16

HISTOPHYSIOLOGICAL CHANGES IN TISSUES AND INTERNAL ORGANS OF EXPERIMENTAL ANIMALS UNDER G-FORCES
N64-23764 16-16

LONG-LASTING TRANSVERSE G-FORCE EFFECT ON CENTRAL NERVOUS SYSTEM OF ANIMALS N64-23766 16-16

REACTIONS OF VASCULAR SYSTEM OF CRANIAL CAVITY DURING LONGITUDINAL G-LOADS N64-23770 16-16

EFFECTS OF HIGH SUSTAINED ACCELERATION ON PILOT PERFORMANCE AND DYNAMIC RESPONSE
NASA-TN-D-2067 N64-24815 17-16

HUMAN EYE REFLEX RESPONSE TO VERTICAL ACCELERATION AND RELATIONSHIP TO LABYRINTH - ELEVATOR ILLUSION
FPRC-1213 N64-25846 18-16

VISUAL ILLUSIONS DUE TO ACCELERATION AND EYE MOTION
FPRC-1207 N64-25847 18-16

ACCELERATION CART TO STUDY HUMAN VESTIBULAR REACTION TO SMALL LINEAR ACCELERATIONS
NASA-CR-58128 N64-26596 18-10

PLASMA NONESTERIFIED FATTY ACIDS IN RATS SUBJECTED TO GRAVITATIONAL ACCELERATION
NASA-TT-F-197 N64-26782 18-16

THRESHOLD OF ACCELERATION SENSATION IN MAN

JPRS-25929 N64-26880 18-16

FUNCTIONAL CONDITION OF VESTIBULAR APPARATUS OF WHITE RAT UNDER DAILY ROTATIONAL ACCELERATION STRESS
NASA-TT-F-9025 N64-27138 19-16

INFLUENCE OF GRAVITATIONAL OVERLOAD ON ARTERIAL SYSTEM OF NERVES AT EXTREMITIES
JPRS-25275 N64-27501 19-16

POOL HEATING OF LIQUID HYDROGEN IN SUBCRITICAL AND SUPERCRITICAL PRESSURE REGIMES OVER RANGE OF ACCELERATIONS - EFFECT ON NUCLEATE BOILING
NASA-TM-X-52039 N64-28082 20-13

MEDICINE IN UKRAINIAN S.S.R., ACCELERATION AND AEROSPACE MEDICINE, AND CHEMOTHERAPY
JPRS-26116 N64-28432 20-16

EFFECT OF CORIOLIS ACCELERATION DURING ZERO GRAVITY FLIGHT ON CERTAIN HEMATOLOGICAL AND URINARY PARAMETERS IN NORMAL AND LABYRINTHINE DEFECTIVE SUBJECTS
NASA-CR-58675 N64-28876 20-16

MEDICAL MONITORING OF HEART RATE PATTERNS DURING CONDITIONS OF SLEEP, QUIET REST, BREATH-HOLDING, HYPOXIA, AND INCREASED G FORCES OF AIRCRAFT FLIGHT
N64-28950 20-16

OXYGEN TENSION IN LIVING BRAIN TISSUE OF DOG DURING LONG ACCELERATION
FTD-TT-63-848/1&2 N64-29278 21-16

ACCELERATION TOLERANCE
HUMAN CENTRIFUGES & PHYSIOLOGICAL EFFECTS OF ACCELERATION - HUMAN PERFORMANCE & TOLERANCE, AND ANIMAL STUDIES
AGARDOGRAPH-48 N64-13451 05-01

HUMAN TRACKING PERFORMANCE & TOLERANCE TO ACCELERATION
NASA-CR-21 N64-16534 08-14

PHOTOELECTRIC RECORDING APPARATUS AND MEASUREMENT OF ACCELERATION TOLERANCE OF HUMAN HEAD
AMRL-TDR-63-106 N64-16808 08-16

ASTRONAUTS ACCELERATION TOLERANCE PERFORMANCE IN RETURNING TO ERECT POSITION FROM CROUCH
AMRL-TDR-64-56 N64-33530 24-14

ACCELERATOR
SA BETATRON
SA BEVATRON
SA COAXIAL ACCELERATOR
SA CYCLIC ACCELERATOR
SA CYCLOTRON
SA ELECTRON ACCELERATOR
SA HALL ACCELERATOR
SA HYPERVELOCITY ACCELERATOR
SA LINEAR ACCELERATOR
SA SYNCHROTRON
CF DECELERATOR
LOWERING INJECTION ENERGY IN HIGH ENERGY ACCELERATORS WITH QUADRUPOLE LENSES
JPRS-18723 N64-10578 01-23

FORTRAN PROGRAM FOR CALCULATION OF PI-BEAM TARGET SPUTTERING IN CIRCULAR ACCELERATOR AND DETERMINING MU-BEAM OF IN-FLIGHT SECONDARY DISINTEGRATION
CERN-63-30 N64-12419 04-20

PLASMA DIAGNOSTICS STUDIES FOR CROSSED FIELD ACCELERATORS
EOS-RN-11 N64-17470 09-24

VORTEX GAS ACCELERATOR
UCRL-7377 N64-18509 10-27

RESONANT BEAM EXTRACTION FOR CONSTANT GRADIENT AND ALTERNATING GRADIENT ACCELERATORS
MURA-666 N64-26603 18-23

STRESS ANALYSIS OF FLYWHEEL ACCELERATOR FOR TESTING MAN-MACHINE SYSTEMS
CE-4462-106-62U N64-26658 18-15

ACCELERATOR TARGETS DESIGNED FOR PRODUCTION OF MONO- AND POLY-ENERGETIC NEUTRONS
EUR-1815.D,F,E N64-27777 19-23

QUADRUPOLE LENSES WITH LARGE ELLIPTICAL APERTURES FOR HIGH INTENSITY PARTICLE BEAMS FROM ACCELERATORS
CERN-64-34 N64-28656 20-23

CONVERTING INCIDENT R-F POWER INTO DIRECTED MOTION OF ACCELERATED EXHAUST STREAM BY CONTINUOUS MICROWAVE MAGNETIC ACCELERATOR
NASA-CR-54134 N64-30604 22-04

PLASMA DENSITY MEASUREMENT IN RAIL ACCELERATOR BY SCHLIEREN PHOTOGRAPHY
GA-4735 N64-32686 23-24

ACCELEROMETER
DESIGN, DEVELOPMENT, ASSEMBLY, AND CALIBRATION OF HYDROSTATIC OMNIDIRECTIONAL ACCELEROMETERS
NASA-CR-55091 N64-12070 03-15

INTERCHANGING PERSHING ST-120 SERVO BOX WITHOUT READJUSTING ACCELEROMETER AMPLIFIER BALANCE POTENTIOMETER
RG-TR-63-24 N64-12221 03-15

INERTIAL ACCELEROMETERS FOR ATTITUDE ERROR SIGNAL AND ORBITAL SHAPE AND SIZE DETERMINATIONS
N64-15259 07-22

ACCELEROMETERS FOR SPACECRAFT GUIDANCE
N64-18276 10-22

CALIBRATING WATER COOLED HIGH TEMPERATURE ACCELEROMETER
N64-20238 13-15

MATERIAL TESTING FOR SOLID-STATE FERROELECTRIC ACCELEROMETER
AD-432049 N64-21872 15-15

INERTIAL METHOD OF MEASURING AIRCRAFT ACCELERATION
N64-23540 16-02

ACCELEROMETRIC PRECORDIAL BALLISTOCARDIOGRAM IN HYPERTENSION
NASA-TT-F-198 N64-25054 17-16

SKYBOLT INTEGRATING ACCELEROMETER
REPT.-63SD543 N64-25750 17-15

IMPULSE ACCELEROMETER - INSTRUMENT INDICATING MAGNITUDE OF ACCELERATION AND TIME DURATION OF ACCELERATION PULSES
UCRL-7766 N64-25890 18-15

PERFORMANCE CHARACTERISTICS OF ACCELEROMETER IN TESTS AND RELATION TO THOSE OF MATHEMATICAL MODEL
SSD-TDR-64-37 N64-26105 18-15

LOW LEVEL ACCELEROMETER WITH DIAMAGNETICALLY SUPPORTED MAGNET INSIDE SUPERCONDUCTING TUBE
NASA-CR-56941 N64-27312 19-15

CRYOGENIC TEST-MASS SUSPENSION FOR SENSITIVE ACCELEROMETER
NASA-CR-56887 N64-27883 20-15

SINGLE-AXIS LINEAR ACCELEROMETER, NAVIGATION AND GUIDANCE PROBLEMS, AND DATA HANDLING
NASA-CR-58332 N64-28068 20-22

SOLID PROPELLANT ROCKET COMBUSTION INSTABILITY MEASURED BY ACCELEROMETER, OSCILLOSCOPE AND OSCILLOGRAPH N64-28595 20-24

NETWORK SYNTHESIS FOR STABILIZING GYRO ACCELEROMETER CONTROL LOOP
NASA-CR-58694 N64-29213 21-09

CONSTRUCTION AND RESOLUTION POTENTIAL OF FRINGE COUNTING ACCELEROMETER, MULTIPASS ACCELEROMETER, AND MANUAL SINGLE-FRINGE RESOLVING SYSTEM
IR-2 N64-29501 21-15

SYNCHRONOUS ROTATING PENDULUM ACCELEROMETER
N64-31481 23-15

PRESSURE SENSITIVITY OF THREE PIEZOELECTRIC ACCELEROMETERS
DTMB-1764 N64-32105 23-15

APPROXIMATION METHODS FOR OMNIDIRECTIONAL RESPONSE FROM UNIAXIAL ACCELEROMETERS
TR-1243 N64-32532 23-15

ACCIDENT INVESTIGATION
SA AIRCRAFT ACCIDENT
AIRCRAFT ACCIDENT INVESTIGATION - STATISTICS, WIND SHEAR HAZARD, AND RELATED LAWS & REGULATIONS
ICAO-CIRCULAR-64-AN/58 N64-10933 02-22

COMMERCIAL AIRCRAFT ACCIDENT INVESTIGATION - CRASH OF NORTHWEST AIRLINES FLIGHT 293, JUNE 3, 1963
N64-19809 12-22

ACCIDENT INVESTIGATION - EXPLOSION INVOLVING USE OF OXYGEN DIFLUORIDE
REPT.-63-136 N64-21362 14-07

SAFETY, HAZARDS & ACCIDENTS
NASA-CR-56623 N64-24119 16-14

HUMAN FACTORS IN LIGHT PLANE ACCIDENTS
CARI-63-35 N64-29850 21-14

ACCLIMATIZATION
ADAPTATION OF HUMANS TO SPACE FLIGHT CONDITIONS, AND EFFECTS OF SPACE ENVIRONMENT ON MAN
N64-10146 01-16

ACCLIMATIZATION OF MAN TO FAR NORTH AND SOUTH
JPRS-21481 N64-10597 01-16

HUMAN ENGINEERING, TOLERANCE, AND PERFORMANCE IN SIMULATED SPACE FLIGHTS AND HIGH ALTITUDES
N64-15107 07-16

THEORY OF ADAPTIVE MECHANISMS
EE894-6307F N64-15814 07-20

THEORY OF MOMENT INVARIANTS APPLICATION TO ADAPTIVE PATTERN RECOGNITION N64-15815 07-20

BREATH HOLDING METHODS OF STUDYING CARBON DIOXIDE, OXYGEN TENSION, AND EFFECTS OF ALTITUDE ACCLIMATIZATION ON RESPIRATION N64-17936 10-16

LINEAR THRESHOLD FUNCTIONS FOR PATTERN RECOGNITION BY ADAPTIVE MECHANISMS
RADC-TDR-64-32 N64-19053 11-20

NONLINEAR ADAPTATION OF HUMAN OPERATOR IN PURSUIT TRACKING SYSTEM
NASA-CR-53879 N64-19955 12-14

BIOMEDICAL PROBLEMS OF ALTITUDE ACCLIMATIZATION FOR MAINTENANCE OF PHYSICAL AND MENTAL PERFORMANCE OF TROOPS AT 10,000 FEET OR ABOVE
AD-428100 N64-19965 12-14

NUMBER OF PLANETS WITH ENVIRONMENTAL CONDITIONS SUITABLE FOR HUMAN HABITATION
R-414-PR N64-20315 13-29

TISSUE MECHANISMS - ADAPTATION OF ANIMALS TO REDUCED OXYGEN CONTENT IN ENVIRONMENT
JPRS-16105 N64-21480 14-16

FORTRAN COMPUTER LANGUAGE ADAPTATION
BRL-1229 N64-21792 15-20

ADAPTATION OF ORGANISMS TO WEIGHTLESSNESS AND MAXIMUM G-FORCES N64-23456 16-16

ADAPTATION REACTIONS AND PATHOLOGICAL STUDIES OF ORGANISM EXPOSED TO HARMFUL STIMULI
N64-23465 16-16

OXYGEN INHALATION EFFECTS ON COLD RESPONSE THRESHOLDS AND ON GAS TRANSPORT AND ACID-BASE BALANCE OF BLOOD
AD-600077 N64-26550 18-16

ADAPTATION AND ACCLIMATIZATION OF HUMAN ORGANISM TO HYPOXIA
JPRS-25796 N64-28076 20-16

ADAPTIVE TECHNIQUES FOR OPTIMIZATION OF BINARY DETECTION SYSTEMS
REPT.-226-2 N64-28146 20-08

PSYCHOLOGICAL RESPONSES AND HUMAN ADAPTIBILITY TO HEAT AND COLD - INSTRUMENTATION
AD-603074 N64-30859 22-16

ADAPTATION OF ORGANISMS TO CHRONIC OXYGEN STARVATION - ACCLIMATIZATION OF HUMANS TO ALTITUDE AND HYPOXIA CHAMBER CONDITIONS N64-31539 23-16

SEARCH FOR HEMATOLOGICAL PARAMETER INDICATING EFFECT OF COLD ACCLIMATIZATION ON FORMED ELEMENTS IN MOUSE PERIPHERAL BLOOD
AAL-TDR-63-3 N64-31934 23-16

HUMAN ADAPTATION TO ALTITUDE, HEAT, COLD, PHYSICAL EXERTION, ACCELERATION, RADIATION, IN SPACE FLIGHT
NASA-TT-F-9158 N64-33410 24-14

ACCOMMODATION COEFFICIENT
ACCOMMODATION COEFFICIENTS AND EVAPORATION OF SOLIDS, SUCH AS ICE, PHENOL, BENZENE AND CAMPHOR
RSIC-13 N64-12264 03-25

RADIATION AND ACCOMMODATION COEFFICIENTS OF TUNGSTEN BY HOT FILAMENT METHOD
N64-26973 19-15

ACETAL
NUCLEAR RADIATION EFFECTS ON MECHANICAL PROPERTIES OF ACETAL RESINS
NARF-63-18T N64-32579 23-19

ACETATE
MANUFACTURE & PROPERTIES OF COBALT III ACETATE COMPLEX SALT
TIL/T-5412 N64-15271 07-07

INFRARED AND CHEMICAL STUDY ON CRYSTALS OF RARE-EARTH ETHYLENEDIAMINE TETRAACETIC ACID CHELATES
AEET/CD/16 N64-15720 07-25

SPECTROSCOPIC ANALYSIS OF ACETALDEHYDE VIBRATION-ROTATION BAND
AFCRL-64-218 N64-18698 11-23

GRAFT COPOLYMER OF POLYSTYRENE AND CELLULOSE ACETATE
AROD-3630-6 N64-21467 14-07

PREPARATION AND PROPERTIES OF CELLULOSE NITRATE-ACETATE MIXED ESTERS
PA-TR-3105 N64-27956 20-07

INFRARED ABSORPTION SPECTRA & PROTON NUCLEAR MAGNETIC RESONANCE SPECTRA OF METALLIC ACETATE COMPLEXES
NASA-CR-59032 N64-33167 24-07

ACETIC ACID
PHYSIOLOGY AND BIOCHEMISTRY OF PLANTS - EFFECT OF INDOLYL ACETIC ACID AND INDOLYL BUTYRIC ACID ON ALGAE
FTD-MT-63-49 N64-18672 11-16

METHOXY-BENZYL-ACETIC ACID AS PRECIPITANT FOR ZIRCONIUM N64-20660 13-07

SEPARATION OF LANTHANIDE SERIES AND YTTRIUM USING PHOSPHONIC AND IMINODIACETIC ACID RESINS
BM-RI-6510 N64-27971 20-07

ACETONE
VISCOSITY OF POLY/ISOBUTYL METHACRYLATE/ IN ACETONE
TR-3163 N64-29917 21-07

ACETYLATION
ACETYLATION OF SULFANILAMIDE IN FEMALE MOUSE LIVER DURING CHRONIC IRRADIATION N64-13508 05-16

ACETYLENE
CF WELDING
INFRARED FLUORESCENT CRYSTALS, GROUND STATES OF RUBY CRYSTALS, AND POLYMERIZATION OF ACETYLENE-BENZENE & SILICON CARBIDE
JPRS-24743 N64-23001 16-01

ACETYLENIC-BENZENE SOLUTION POLYMERIZATION USING TRIBORON FLUORIDE AS CATALYST N64-23006 16-07

ION-MOLECULE REACTIONS IN METHANE-OXYGEN AND ACETYLENE-OXYGEN SYSTEMS
HUN-6-P N64-29726 21-26

PREPARATION, PURIFICATION, AND INFRARED SPECTRA OF DIFLUOROACETYLENE
TDR-269/4240-20/-6 N64-29800 21-07

MASS SPECTROMETRY OF NEGATIVE IONS IN LOW-PRESSURE ATOMIC OXYGEN - ACETYLENE REACTION
AC-1-P N64-32503 23-26

MASS SPECTROMETRIC STUDIES OF IONIC REACTIONS IN GASEOUS ACETYLENE FOR SQUID PROJECT
HUN-8-P N64-32564 23-07

ACHONDRITE
ELECTRON MICROPROBE ANALYSIS OF RARE MINERALS IN NORTON COUNTY, KANSAS ACHONDRITE
N64-11195 02-12

ORIGIN OF CHONDRULES AND CHONDRITE TYPES AND RELATION WITH IRON METEORITES AND ACHONDRITES
N64-13328 04-05

OPTICAL STUDIES OF DIAMONDS IN CANYON DIABLO METEORITE AND NOVO UREI ACHONDRITE
N64-25738 17-12

ACID
SA ACETIC ACID
SA ACRYLIC ACID
SA AMINO ACID
SA ASCORBIC ACID
SA ASPARTIC ACID
SA BENZILIC ACID
SA BENZOIC ACID
SA BORIC ACID
SA CARBONIC ACID
SA DEOXYRIBONUCLEIC ACID
SA DICARBOXYLIC ACID
SA FATTY ACID
SA FORMIC ACID
SA HYDRAZOIC ACID
SA HYDROCHLORIC ACID
SA HYDROFLUORIC ACID
SA NITRIC ACID
SA NUCLEIC ACID
SA OXALIC ACID
SA OXAMIC ACID
SA PHOSPHORIC ACID
SA RIBONUCLEIC ACID
SA SULFURIC ACID
MOLECULAR ORBITAL THEORY OF SOME MICHAEL REACTIONS - CHAIN PSEUDOACIDS
TIL/T-5226 N64-10238 01-23

PRODUCTION OF AMMONIUM PARATUNGSTATE IN ACID-FREE AUTOCLAVE SOLUTIONS - LOWER SODIUM CONTAMINATION & LOWER QUANTITY OF REAGENTS N64-10806 02-18

ACID STABILITY OF BLOOD ERYTHROCYTES IN HUMAN BODIES BY IONIZING RADIATION
JPRS-18938 N64-11317 02-16

STRESS CORROSION OF TITANIUM ALLOYS IN ACID MEDIA
FTD-MT-63-123 N64-18678 11-18

SCALE-, ACID-, AND HEAT-RESISTANT STAINLESS STEELS AND ALLOYS
FTD-TT-63-353/1&2&4 N64-22185 15-18

CHARACTERISTICS OF LITHIUM ELECTRODE & LEWIS ACID-PROPYLENE CARBONATE ELECTROLYTES
N64-22888 16-06

DIGITAL COMPUTER METHOD FOR CALCULATION OF ACID DISSOCIATION CONSTANTS
IS-822 N64-30667 22-07

ACID-BASE BALANCE
OXYGEN INHALATION EFFECTS ON COLD RESPONSE THRESHOLDS AND ON GAS TRANSPORT AND ACID-BASE BALANCE OF BLOOD
AD-600077 N64-26550 18-16

ACOUSTIC ATTENUATION
SOUND INSULATING CAPABILITY OF SHIP HULL STRUCTURES
JPRS-20319 N64-10663 01-23

ULTRASONIC ATTENUATION IN SUPERCONDUCTING LEAD
N64-20694 13-25

PEARLITE MATERIALS FOR THERMAL & ACOUSTIC INSULATION
FTD-TT-63-354/1&2&4 N64-22184 15-19

OPTIMUM SUSPENDED PARTICLE SIZE FOR ACOUSTIC ATTENUATION IN ROCKET PROPELLANT COMBUSTION
ABL/X-115 N64-31030 22-23

SOUND ATTENUATION IN ATMOSPHERES OF AIR, NITROGEN, OXYGEN, HELIUM AND 50-50 HELIUM-OXYGEN MIXTURES AT LOW PRESSURES
SAM-TDR-64-43 N64-31051 22-16

ATTENUATION OF ACOUSTIC WAVES IN TWO-PHASE MEDIUM
ABL/X-96 N64-32413 23-23

ACOUSTIC RADIATION
SCATTERING MATRIX TECHNIQUE FOR SOLVING SOME ELECTROMAGNETIC AND ACOUSTIC WAVE PROPAGATION BOUNDARY VALUE PROBLEMS
TR-72 N64-13966 05-20

ACOUSTIC RADIATION FROM TURBULENT, SUBSONIC, AND SUPERSONIC JETS
AGARD-448 N64-16293 08-23

EQUATIONS OF SOUND RADIATION BY SURFACE DIPOLES OF RIGID FLAT PLATE
AGARD-459 N64-18724 11-23

ACOUSTIC RADIATION FROM FIREFLY PROJECT EXPLOSIONS IN UPPER ATMOSPHERE N64-31395 23-12

CONFERENCE ON ATMOSPHERIC ACOUSTIC PROPAGATION
AD-449237 N64-32254 23-23

GRENADE DETONATION ACOUSTIC WAVE PROPAGATION IN UPPER ATMOSPHERE N64-32255 23-12

INFRASONIC PRESSURE MICROPHONE WITH SOLION TRANSDUCER FOR STUDYING ATMOSPHERIC ACOUSTICS
N64-32258 23-15

ATMOSPHERIC AND TERRAIN EFFECTS ON ACOUSTIC PROPAGATION N64-32263 23-23

IONOSPHERIC HYDROMAGNETIC AND ACOUSTIC WAVES
N64-32264 23-12

STATISTICAL TECHNIQUES FOR CLASSIFICATION OF ACOUSTIC SIGNALS N64-32265 23-23

MARK II DIGITAL CORRELATOR AS ACOUSTIC SIGNAL DETECTOR N64-32266 23-23

ACOUSTIC VIBRATION
ELASTIC & ACOUSTIC WAVE RADIATION FROM CYLINDRICAL MEDIA ABOUT A POINT SOURCE
REPT.-5178-14-T/3-23-T N64-13111 04-23

ENERGY METHOD FOR PREDICTION OF ACOUSTIC AND VIBRATION TRANSMISSION & NOISE REDUCTION STUDIES
N64-18537 11-33

PREDICTION OF ACOUSTIC VIBRATION RESPONSE OF ROCKET VEHICLE STRUCTURES N64-18538 11-33

ACOUSTICAL VIBRATION DYNAMIC ENVIRONMENT FOR LARGE BOOSTER LAUNCH FACILITY N64-18543 11-10

DETECTION OF ACOUSTIC SIGNALS AND NOISE DEVIATION BY RANDOMNESS TESTER N64-18560 11-23

DISPERSAL OF SOUND WAVES BY RADIATIVE HEAT TRANSFER IN HOT GAS
CAL-AF-1205-A-11 N64-19409 12-23

ACOUSTIC AND RANDOM VIBRATION FATIGUE TEST OF STRUCTURAL SKIN PANELS FOR TITAN III ICBM
SSD-CR-64-95 N64-21110 14-33

TRANSVERSE AND ORGAN-PIPE ACOUSTIC OSCILLATION IN COMBUSTION SYSTEMS N64-26009 18-26

SUPPRESSION AND USEFUL APPLICATIONS OF COMBUSTION OSCILLATIONS N64-26010 18-26

ACOUSTIC VIBRATION MEASUREMENTS FOR CALIBRATION OF SONAR TRANSDUCERS
BBN-1135 N64-33250 24-15

ACOUSTICS
SA NOISE
CF SOUND
PHASE DISTORTION OF REFLECTED SINE WAVE ACOUSTIC PULSES IN FLUID MEDIA AT GRAZING ANGLES
RM-152 N64-10071 01-23

RANDOM VIBRATION COUPLING OF ACOUSTIC EXCITATION STRUCTURE IN ELECTRONIC APPARATUS
ASD-TDR-63-205 N64-11178 02-33

CRITERIA FOR ACOUSTICAL PERFORMANCE OF NOISE SUPPRESSORS
ANRL-MEMO-M-16 N64-11753 03-15

BIBLIOGRAPHY ON FLUID MOTION AND ACOUSTICS
REPT.-63-51 N64-14680 06-23

MATHEMATICAL EVALUATION OF INFLUENCE OF DYNAMIC TURBULENCE ON SOUND AUDIBILITY IN ATMOSPHERE
RSIC-121 N64-15739 07-23

AUDITORY PAIN THRESHOLDS FOR INTERMITTENT WHITE NOISE
AD-236942 N64-15889 07-16

FAR-FIELD ACOUSTICS MONITORING OF TITAN INTERCONTINENTAL BALLISTIC MISSILE LAUNCHES
NASA-TM-X-54632 N64-16718 08-23

CHARACTERISTICS OF TWO-WAY SOUND PROPAGATION AND APPLICATION TO ACOUSTIC DETERMINATION OF MEAN TEMPERATURE
ERDA-112 N64-17438 09-21

RESPONSE TO ACOUSTIC EXCITATION OF STRUCTURAL PANELS FROM SATURN ENGINE SHROUDS
NASA-CR-53394 N64-18103 10-33

ATMOSPHERIC ACOUSTIC STRUCTURE DETERMINATION FROM ROCKET SOUNDING DATA
ERDA-127 N64-18356 10-21

DETECTION OF ACOUSTIC SIGNALS AND NOISE DEVIATION BY RANDOMNESS TESTER N64-18560 11-23

DESIGN, DEVELOPMENT, AND CONSTRUCTION OF MICRO-METEORITE DETECTORS USING ACOUSTIC SENSORS
AFCRL-64-98 N64-18647 11-15

DIRECTIONAL MICROPHONE WITH TWO ACOUSTIC TERMINALS AND ELECTROMECHANICAL TRANSDUCER - ANALYSIS AND APPLICATION N64-20615 13-15

ACOUSTIC DETECTION OF CRACK INITIATION IN SHARPLY NOTCHED SPECIMENS OF HIGH STRENGTH ALLOYS
NASA-RP-180 N64-21304 14-33

ATMOSPHERIC ACOUSTIC FACTORS IN SATURN LAUNCH VEHICLE TESTING - REDUCTION BY WEATHER FORECASTING
AIAA PAPER-64-207 N64-21537 15-30

ACOUSTIC DETECTION OF HIGH ALTITUDE TURBULENCES
REPT.-3746-38-T N64-22124 15-12

ACOUSTIC EFFICIENCY TRENDS PRODUCED BY ROCKET TURBULENT EXHAUST FLOW
NASA-TN-D-1999 N64-22747 16-30

SPACE VEHICLE STRUCTURES FOR VIBRATION AND ACOUSTIC ENVIRONMENT N64-23163 16-33

ACOUSTICAL AND CINEMATIC APPLICATIONS OF OPTICAL AND ELECTRICAL PROPERTIES OF PARTICLES IN SUSPENSION N64-24131 16-23

PLASMA THEORY FOR ACOUSTIC COMBUSTION INSTABILITY
WSS/CI PAPER-64-13 N64-24377 17-26

MATHEMATICAL MODEL FOR ACOUSTICAL RAY TRACING
ERDA-137 N64-24943 17-23

ACOUSTICS, DYNAMIC BEHAVIOR, AND AERODYNAMIC CHARACTERISTICS OF CARAVELLE AIRCRAFT N64-25116 17-04

ACOUSTICALLY EXCITED PROPELLANT UTILIZATION VALVES REDESIGNED FOR COMPATIBILITY IN HA-5 PROPULSION SYSTEM
R-5585 N64-25716 17-26

ELECTRONIC DIGITAL COMPUTERS FOR CALCULATION OF ACOUSTIC-GRAVITY WAVE PROPAGATION IN EARTH ATMOSPHERE N64-25956 18-05

ENERGY SOURCES FOR COMBUSTION OSCILLATIONS - SYSTEM, TRANSITION, AND ACOUSTICAL INSTABILITIES N64-26008 18-26

ACOUSTIC SPECIFICATION OF SPEECH
AFCRL-64-263 N64-26499 18-16

COMPUTER-AIDED LEARNING OF SOUND IDENTIFICATION
NAVTRADEVCEN-789-2 N64-26892 18-14

IMAGE CONVERTER TUBE USING ULTRAHIGH FREQUENCY SOUND - ACOUSTIC EQUIVALENT OF TELEVISION CAMERA
AERE-R-4356 N64-27047 19-15

PRESSURE FIELD INDUCED IN ACOUSTIC FLUID BY HARMONIC EXCITATION OF SUBMERGED CYLINDRICAL SHELL OF FINITE LENGTH
TR-3 N64-27787 19-23

SELECTED ARTICLES IN FLUID DYNAMICS, FLIGHT MECHANICS, ACOUSTICS, AND MATHEMATICAL PHYSICS
JPRS-25622 N64-27976 20-23

DESIGN AND APPLICATION OF ACOUSTICS LABORATORY N64-28042 20-10

UNDERWATER ACOUSTICS, VECTORCARDIOGRAMS, AND NORMAL HEART SOUNDS
JPRS-26103 N64-28431 20-16

ACOUSTIC EFFECTS OF STATIC TEST FIRING SATURN S-IC STAGE
NASA-TM-X-53086 N64-29010 20-10

USE OF SCALE MODEL TO CONTROL FUSELAGE RESPONSE TO ACOUSTIC EXCITATION FROM PROPELLER SLIPSTREAM N64-29289 21-33

PHONON INTERACTIONS IN CRYSTALS - APPLICATION TO AMPLIFIERS, OSCILLATORS, AND FREQUENCY CONVERTERS OF MICROWAVE ACOUSTIC ENERGY
QTR-4 N64-30908 22-25

ACOUSTIC THEORY APPLIED TO PREDICTION OF SONIC BOOM GROUND PATTERNS FROM MANEUVERING AIRCRAFT
NASA-TN-D-1860 N64-31223 22-23

GROUND BASED ACOUSTIC DETECTION OF HIGH ALTITUDE EXPLOSIONS - FIREFLY PROJECT N64-31389 23-32

INTERACTION OF EXCITATION & INHIBITION PROCESSES IN ACOUSTIC ANALYZER OF DOG IN RESPONSE TO PURE TONES N64-31464 23-16

WAVE STABILITY OF PIEZOELECTRIC CRYSTAL AMPLIFIERS AND HOLE MOBILITY EFFECT ON ACOUSTIC AMPLIFICATION
ML-1072 N64-31685 23-25

ACOUSTIC LOSSES IN RESONATOR WITH STEADY GAS FLOW
REPT.-1142 N64-32246 23-23

WIND EFFECTS ON ACOUSTIC FOCUSING N64-32262 23-23

ACOUSTIC FILTER WITH RUBBER SPRING ELEMENTS FOR ATTENUATING TRANSMITTED SOUND IN SHIPBOARD SYSTEMS
REPT.-165-34 N64-33754 24-17

FERROACOUSTIC INFORMATION STORAGE FOR DATA PROCESSING SYSTEMS - IMPROVED TECHNIQUES AND MATERIALS
NASA-CR-59323 N64-33771 24-25

UTILIZATION OF ACOUSTICAL PROPERTIES OF SOLID PROPELLANTS TO DAMP OUT ACOUSTIC WAVES IN ROCKET COMBUSTION SYSTEMS
FTCE/41/3/64 N64-33896 24-26

ACQUISITION
S DATA ACQUISITION
S TARGET ACQUISITION

ACRYLATE
PREPARATION OF VINYL, STYRENE, BUTADIENE, ACRYLATE, AND POLYESTER FLUORINE MONOMERS
JPRS-22383 N64-11983 03-07

APPLICATION OF PYROLYTIC GAS CHROMATOGRAPHY TO ANALYSIS OF THERMOSETTING ACRYLIC RESINS
CCL-157 N64-17461 09-07

VISCOSITIES OF METHYL-ETHYL KETONE SOLUTIONS OF HIGH MOLECULAR WEIGHT POLYISOBUTYL METHACRYLATE
PA-TR-3113 N64-18605 11-19

VISCOSITY, CONDUCTIVITY, AND HYDROGEN ION CONCENTRATIONS IN WATER SOLUTIONS OF VINYLPYRIDINE COPOLYMER WITH METHACRYLIC ACID
FTD-TT-62-1572/1&2&4 N64-22149 15-07

BEHAVIOR OF PLEXIGLAS UNDER SHOCK LOADING
NOLTR-64-66 N64-29865 21-19

VISCOSITY OF POLY/ISOBUTYL METHACRYLATE/ IN ACETONE
TR-3163 N64-29917 21-07

ACRYLIC ACID
INHIBITION AND ENHANCEMENT OF RADIATION EFFECTS ON BIOLOGICAL SYSTEMS WITH AMIDES OF ACRYLIC AND PROPIONIC ACIDS N64-18411 10-16

DYNAMIC MECHANICAL PROPERTIES OF POLYBUTADIENE ACRYLIC ACID COPOLYMER SOLID PROPELLANT
QTSR-1 N64-25476 17-26

ACTH
S ADRENOCORTICOTROPIN

ACTINIDE
TRANSURANIUM PROCESSING PLANT - SEPARATION AND RECOVERY OF VERY HEAVY ACTINIDE ELEMENTS
ORNL-3597 N64-21617 15-07

ENERGY LEVELS OF HEAVY ACTINIDES
ANL-6911 N64-32093 23-07

ACTINOMETRY
OPTICAL PROPERTIES OF EARTH ATMOSPHERE, ATMOSPHERIC RADIATION, AND ACTINOMETRY
JPRS-23547 N64-16542 08-21

ACTINOMETRY, ATMOSPHERIC OPTICS, AND NUCLEAR RADIATION METEOROLOGY
NASA-TT-F-150 N64-24786 17-21

CALIBRATION OF ACTINOMETRIC INSTRUMENTS USING INFRARED RADIATION N64-24787 17-23

ACTINOMETRIC OBSERVATIONS OF RADIATIVE HEAT TRANSFER, SOLAR RADIATION, AND ATMOSPHERIC SCATTERING N64-24788 17-15

TOTAL ATMOSPHERIC RADIATION CALCULATIONS FROM CLOUD DATA USING ACTINOMETRIC INSTRUMENTS N64-24791 17-21

ACTINOMETRIC OBSERVATIONS OF ALBEDO RADIATION ABSORPTION N64-24794 17-21

ACTINOMETRIC OBSERVATIONS OF RADIATION CLIMATE OF CENTRAL ARCTIC N64-24797 17-21

ACTINOMYCETES
INFLUENCE OF SPACE FLIGHT FACTORS ON HEREDITY & DEVELOPMENT IN ACTINOMYCETES AND PLANTS N64-11682 03-16

ACTIVATION
S NEUTRON ACTIVATION

ACTIVATION ENERGY
ACTIVATION ENERGY OF ATOMIC DISPLACEMENTS IN SOLID METALS N64-17033 09-13

ACTIVATION ENERGY AND COEFFICIENTS OF SELF-DIFFUSION IN NICKEL N64-21188 14-18

ACTIVATION ENERGY INDEX AS DESIGN FIGURE OF MERIT FOR GO, NO-GO SYSTEM
DOUGLAS PAPER-1874 N64-26501 18-17

INTERPHASE SURFACE ENERGY AND ENERGY OF ACTIVATION OF CRYSTALLIZATION PROCESS
FTD-TT-64-161/1&2 N64-26727 18-25

OXIDATION RATES AND ACTIVATION ENERGIES OF ALTERNATELY IRRADIATED AND ANNEALED GRAPHITES
BNL-7567-R2 N64-32370 23-07

ACTIVE SATELLITE
PARAMETRIC ANALYSIS OF MEDIUM ALTITUDE ACTIVE AND PASSIVE SATELLITE COMMUNICATION SYSTEMS
ICS-63-TR-250 N64-19971 12-32

ACTIVITY
S AURORAL ACTIVITY
S CATALYTIC ACTIVITY
S SOLAR ACTIVITY

ACTIVITY /BIOL/
EFFECTS OF X-RAY IRRADIATION ON ENZYME ACTIVITY IN BRAIN AND MUSCLE TISSUE OF RATS
JPRS-25630 N64-27319 19-16

ACTUATOR
CF SERVOMECHANISM
HYDRAULIC ACTUATORS AND AMPLIFIERS WITH & WITHOUT FEEDBACK, AND ELECTROMECHANICAL TRANSDUCERS
FTD-TT-62-1226/1&2 N64-11150 02-11

GENERALIZED ACTUATOR DISK
TAR-TR-6401 N64-21754 15-03

CONTROL SYSTEM WITH DOUBLING ACTUATING ELEMENT
JPRS-25232 N64-22743 16-06

COMPUTATION OF POWER REQUIREMENTS FOR DIGITAL COMPUTER AND ANALOG COMPUTER-ACTUATION SYSTEMS
REPT.-747 N64-22799 16-20

HYDRAULIC SERVOSYSTEM AS PRACTICAL ARTIFICIAL MUSCLE
ARC-CP-671 N64-24925 17-15

ENVIRONMENTAL TESTING OF PISTON ACTUATOR, DIMPLE ACTUATOR, AND MATCH TYPE SQUIBS
RT-TR-64-7 N64-29830 21-06

PROTOTYPE PNEUMATIC NUTATOR ACTUATOR MOTOR FOR DRUM CONTROL OF NUCLEAR REACTOR
NASA-CR-54204 N64-33897 24-06

ADAPTIVE CONTROL SYSTEM
ADAPTIVE CONTROLLER-EQUIPMENT MODULE - HUMAN CONTROLLER, SATELLITE COMPUTER, DISPLAYS AND CONTROLS FOR AIR TRAFFIC REGULATION N64-13005 04-14

BIBLIOGRAPHY ON ADAPTIVE CONTROL SYSTEMS WITH DYNAMIC CHARACTERISTIC ADJUSTMENT
MH-TRANS-393 N64-14752 06-20

ADAPTIVE ATTITUDE CONTROL SYSTEM FOR SPACE VEHICLES
NASA-CR-53109 N64-16748 08-22

ADAPTIVE CONTROL SYSTEM FOR NUCLEAR REACTOR
NASA-CR-53179 N64-17581 09-06

ANNOTATED BIBLIOGRAPHY ON ADAPTIVE CONTROL SYSTEMS
SB-63-60 N64-18314 10-20

TAYLOR SERIES IN DIGITAL ADAPTIVE CONTROL SYSTEM RESEARCH
NASA-CR-53610 N64-18476 10-20

FERRIELECTRICS IN SOLID STATE ADAPTIVE CONTROL SYSTEMS N64-18840 11-09

ADAPTIVE AND SELF-OPTIMIZING CONTROL SYSTEMS
AD-429297 N64-20279 13-06

ADAPTIVE LOAD RELIEF CONTROL SYSTEM FOR SATURN-TYPE LAUNCH VEHICLE
AIAA PAPER-64-239 N64-21539 15-06

FORMULATION OF ADAPTIVE CONTROL SYSTEM IDENTIFICATION AND STATE DETERMINATION PROBLEMS AS BOUNDARY VALUE PROBLEMS AND SOLUTION VIA QUASI-LINEARIZATION AND DIFFERENTIAL APPROXIMATION
RM-3928-PR N64-21909 15-20

NONLINEAR ADAPTIVE CONTROL SYSTEMS WITH STORAGE
NASA-CR-64 N64-23031 16-06

PATHOLOGY AND PHYSIOLOGY OF ADAPTIVE CONTROL AND PROTECTION MECHANISMS IN ANIMALS
FTD-TT-62-1548/1&2&4 N64-23463 16-16

PERFORMANCE LOSSES IN ADAPTIVE CONTROL SYSTEMS
REPT.-63-23 N64-25593 17-06

ADAPTIVE PROPERTIES IN SPACE VEHICLES THROUGH ONBOARD DIGITAL COMPUTER CONTROL
AL-TDR-64-62 N64-26171 18-30

EVALUATION OF ADAPTIVE CONTROL SYSTEM FOR X-15 AIRCRAFT
NASA-TM-X-56008 N64-27261 19-06

NONLINEAR ADAPTIVE CONTROL SYSTEMS WITH STORAGE
NASA-CR-56723 N64-27811 19-06

NONLINEAR ADAPTIVE CONTROL SYSTEMS WITH STORAGE
NASA-CR-58963 N64-33170 24-09

ERROR CONTROL SYSTEMS DESIGN
RADC-TDR-64-149, VOL. VI N64-33542 24-08

ADAPTIVE ERROR CONTROL SYSTEMS
RADC-TDR-64-149, VOL. VII N64-33543 24-08

LIAPUNOV FUNCTIONS FOR ANALYSIS AND DESIGN OF NONLINEAR & ADAPTIVE CONTROL SYSTEMS
RTD-TDR-63-4076 N64-33915 24-09

ADCAT MISSILE
PERFORMANCE & STABILITY OF ADCAT MISSILE INNER-LOOP CONTROL SYSTEM
AD-TR-63-30 N64-12649 04-06

ADDITION THEOREM
THREE-DIMENSIONAL ADDITION THEOREM FOR ARBITRARY FUNCTIONS INVOLVING EXPANSIONS IN SPHERICAL HARMONICS N64-25881 18-23

ADDITION THEOREM FOR DERIVATIVE OF LEGENDRE POLYNOMIAL
BAL-1248 N64-28138 20-20

ADDITIVE
CF ANTIOXIDANT
EFFECT OF PARTLY FLUORINATED ADDITIVES ON WETTABILITY OF SOLID POLYMERS - ORGANOPHILIC/ORGANOPHOBIC BALANCE OF SOLUTE
NRL-5952 N64-11176 02-07

DISTRIBUTION OF CARBON, IRON, LEAD, AND TUNGSTEN ADDITIONS TO NIOBIUM AFTER ZONE REFINING BY ELECTRIC ARC METHOD N64-13731 05-17

CHEMICAL ADDITIVES AND GAMMA RADIATION FOR CURING VINYLIDENE FLUORIDE-HEXAFLUOROPROPYLENE ELASTOMER
REPT.-63-3347 N64-14644 06-07

THERMIONIC CONVERTER - CESIUM WITH CESIUM FLUORIDE ADDITIVE FOR LOWER WORK FUNCTION
TE-11-64 N64-14652 06-06

MOLTEN CARBONATE HYDROGEN FUEL CELLS
TI-08-63-108 N64-15562 07-06

CESIUM HALIDE ADDITIVES FOR THERMIONIC CONVERTERS
REPT. 35-64 N64-15697 07-06

EFFECT OF CHEMICAL COMPOSITION AND ADDITIVES ON FUEL COMBUSTION IN JET ENGINES
FTD-TT-62-743/1&2&4 N64-16059 07-26

EFFECT OF ADDITIVES ON RADIOLYSIS PRODUCTS OF ORGANIC CHAIN REACTIONS
NYO-10025 N64-18413 10-07

RECOMBINATION REACTIONS, SEPARATOR MATERIALS, AND ADDITIVES FOR SEALED ZINC-SILVER OXIDE BATTERY
QPR- 3 N64-28239 20-06

EFFECTS OF CESIUM ADDITIVE ON PERFORMANCE AND WORK FUNCTIONS OF RHENIUM EMITTER DIODE
REPT.-36-63 N64-32036 23-09

ADENINE
FORMATION OF ADENOSINE BY ULTRAVIOLET IRRADIATION OF ADENINE AND RIBOSE N64-11375 02-16

ADHESION
CF BONDING
ADHESION BETWEEN ATOMICALLY CLEAN METALLIC SURFACES - SURFACE ENERGY AND BONDING
NASA-CR-52482 N64-10372 01-18

ADHESION MECHANISMS BETWEEN SOLID METAL SURFACES
NASA-TN-D-2228 N64-14730 06-23

ADHESION OF SCOTCHCAL TO UNPAINTED, PRIMED, AND LACQUERED ALUMINUM ALLOY PANELS
T5R-1 N64-17142 09-17

ADHESION PROBLEMS - DYNAMICS OF CATALYTIC CHROMATOGRAM - CRYSTAL STRUCTURE OF COMPLEX IONS OF TRANSITION METALS - MECHANISM OF ICE FORMING NUCLEI
JPRS-26193 N64-28434 20-03

ADHESION BETWEEN ATOMICALLY PURE METALLIC SURFACES
NASA-CR-58714 N64-29217 21-18

FORCES OF ADHESION BETWEEN CLEAN METALLIC SOLIDS - ATOMISTIC APPROACH N64-29219 21-18

ULTRAHIGH VACUUM ADHESION OF SILICATES AS RELATED TO LUNAR SURFACE
NASA-CR-59364 N64-33812 24-17

ADHESIVE
CF BINDER
ADHESIVES FOR CRYOGENIC APPLICATION
NASA-CR-52879 N64-11326 02-19

VISCOELASTIC DAMPING EFFECTIVENESS OF ADHESIVE SUPPORT OF BUILT-IN CIRCULAR PLATES
ASD-TDR-63-648 N64-12049 03-11

OXIDATION PRODUCTS USED TO FASTEN RUBBER TO METAL
FTD-TT-63-831/1&2 N64-12630 04-17

ADHESIVES, ISOTOPE SEPARATION, PURIFICATION, PROPERTIES, AND VARIATION METHOD ANALYSIS OF CALORIMETRY DATA - REACTOR PHYSICS
MLM-1148 N64-14755 06-23

ADHESIVES, PLASTICS, AND ISOTOPE RESEARCH
MLM-1157 N64-16265 08-23

FLEXIBLE POLYMER FILM AND ADHESIVE RESIN BONDING OF ALUMINUM TO ALUMINUM - LOAD AND VIBRATION TEST
NASA-CR-55721 N64-16272 08-34

EXPERIMENT DESIGN AND APPARATUS FOR TORSIONAL SHEAR TEST OF ADHESIVES
ERR-FW-134 N64-16627 08-33

CREEP RESISTANCE OF ADHESIVES
FTDM-3160 N64-16639 08-33

LAP SHEAR PROPERTIES OF LOW TEMPERATURE CURING, HIGH TEMPERATURE RESISTANT ADHESIVE AFTER EXPOSURE TO ELEVATED TEMPERATURES
A481 N64-17139 09-18

ELECTRON & PROTON RADIATION EFFECTS ON TRANSMITTANCE OF GLASSES & ADHESIVES N64-17382 09-06

ADHESIVE BINDING THEORY - GLUED LAP JOINTS FOR JOINING STRESS LOADED COMPONENTS N64-17548 09-33

CONDUCTIVE ADHESIVES, RADIOACTIVE ISOTOPES AND ELEMENTS, ALPHA AND NEUTRON SOURCES, AND CALORIMETRY
MLM-1176 N64-18083 10-07

CONDUCTIVE ADHESIVES, HALF-LIVES AND SEPARATION OF RADIOACTIVE ISOTOPES, NEUTRON AND ALPHA SOURCES, AND LOW LEVEL TRITIUM COUNTING
MLM-1177 N64-18405 10-23

ADHESIVES AND PLASTICS, RADIOACTIVE ELEMENTS, ISOTOPE SEPARATION, ALPHA AND NEUTRON SOURCE DEVELOPMENT, AND ANALYSIS
MLM-1179 N64-18406 10-23

METAL-TO-METAL AND SANDWICH PLATE ADHESIVE ENVIRONMENTAL TESTING FOR F-111 AIRCRAFT
FGT-3048 N64-20041 13-19

SEALANTS & ADHESIVES FOR BEARING INSTALLATION IN STEEL AND ALUMINUM HOUSING BORES OF FLIGHT CONTROL SYSTEM
FGT-3082 N64-20044 13-19

CREEP TESTING OF ADHESIVE MATERIALS FOR F-111 AIRCRAFT
FGT-3093 N64-20045 13-19

FLATWISE TENSION AND SKIN TENSION STRENGTH OF BONDED SANDWICH PLATE - ADHESIVE TESTING
FTDM-3194 N64-20062 13-34

CREEP ANALYSIS OF AEROBOND 500 AND DYNABOND 132 STRUCTURAL ADHESIVES
FTDM-3197 N64-20063 13-17

ENVIRONMENTAL EXPOSURE OF ADHESIVES FOR F-111 AIRCRAFT
FTDM-3202 N64-20066 13-17

CREEP DEFORMATION OF METAL ADHESIVE BONDING
DFL-229 N64-21534 15-19

LAP SHEAR STRENGTH AND THERMAL CONDUCTIVITY STUDY OF ADHESIVES
A750 N64-22592 15-19

BONDING AGENTS AND BASIC PROPERTIES OF ADHESIVES
FTD-TT-62-1617/1&2 N64-23381 16-18

POLYESTER PLASTIC MATERIAL & METAL BONDING ADHESIVES
FTD-TT-62-940/1 N64-23451 16-01

METAL BONDING ADHESIVES - SURFACE TREATMENT AND QUALITY CONTROL OF BONDS N64-23453 16-18

VIBRATION DAMPING AND ADHESIVE STRESS REDUCTION FOR ALLEVIATION OF SONIC FATIGUE
LB-31451 N64-25896 18-19

AGING OF RACEWAY ADHESIVE
MTO-258-7 N64-26061 18-19

PERMEABILITY OF ADHESIVES BY LIQUID AND GASEOUS HYDROGEN
NASA-TM-X-53066 N64-26591 18-19

SURFACE PREPARATION AND ELEVATED TEMPERATURE STORAGE EFFECTS ON ADHESIVE BONDS TO ALUMINUM
PA-TM-1255 N64-26755 18-19

ADHESIVES, SEALS, GASKETS, AND POLYMERIC MATERIALS FOR AEROSPACE APPLICATIONS - BIBLIOGRAPHY
SB-63-77 N64-26823 18-19

ADHESIVES IN CONSTRUCTION AND AIRCRAFT STRUCTURES, AGE HARDENING, STRESS DISTRIBUTION, CORROSION, AND NONDESTRUCTIVE TESTING
WGLR-1/1964 N64-27228 19-20

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - STRUCTURAL ADHESIVES
RSIC-150, VOL. I, APPEND. D N64-27483 19-19

ADHESIVES WITH HIGH FLEXIBILITY AND CONDUCTIVITY AT LOW TEMPERATURES
MLM-1207 N64-28501 20-07

OPTICAL PROPERTIES AND ENVIRONMENTAL STABILITY OF SOLAR CELL ADHESIVES
LMSC-AD-34229 N64-28643 20-19

RADIATION RESISTANCE OF POLYVINYL CHLORIDE AND ADHESIVES FOR CEMENTING PROTECTIVE COATINGS TO CONSTRUCTION UNIT SURFACES
JPRS-26001 N64-29119 21-07

ADHESIVES FOR CEMENTING RADIATION PROTECTIVE COATINGS TO CONSTRUCTION UNIT SURFACES
N64-29121 21-07

EVALUATION OF ELECTRICALLY CURED STRUCTURAL ADHESIVES FOR METAL-TO-METAL BONDING AND HONEYCOMB SANDWICH CONSTRUCTION
NA64H-377-1 N64-32221 23-19

QUALIFICATION TESTS ON ELECTRICALLY CURED STRUCTURAL ADHESIVES FOR METAL-TO-METAL BONDING AND HONEYCOMB SANDWICH PANELS
NA64H-377-2 N64-32513 23-19

CONDUCTIVE ADHESIVES AND RADIOACTIVE ELEMENT RESEARCH - PARTICLE SOURCES, ISOTOPE SEPARATION, AND KRYPTON-85 COUNTING
MLM-1203 N64-32827 24-07

EFFECT OF CHLORINE SUBSTITUTION ON ADHESIVE BOND STRENGTH OF EPOXY RESIN
PA-TM-1396 N64-33067 24-19

EFFECTS OF LOADING AND ADHESION ON MECHANICAL BEHAVIOR OF FILLED RUBBER INSULATION IN ROCKET CHAMBERS
NRL-MEMO-1563 N64-33522 24-19

ADIABAT
MONODIMENSIONAL ADIABATIC EXPANSION FLOW OF TWO-PHASE MEDIUM IN STRAIGHT NOZZLE
FTD-TT-63-378/1&2 N64-16481 08-11

COMPRESSION WAVE MOTION IN COLLISIONLESS PLASMA - ADIABATIC STATE
MF-36 N64-19299 12-24

ADIPOSE TISSUE
S LIPID

ADRENAL GLAND
MORPHOLOGICAL CHANGES IN ANTERIOR LOBE OF PITUITARY GLAND, THYMUS, & ADRENAL GLAND UNDER IRRADIATION AND COOLING
JPRS-20037 N64-11320 02-14

OXYGEN CONSUMPTION AND CATECHOLAMINE RELEASE FROM ADRENAL SLICES AND RATE OF RESPIRATION
SAM-TDR-63-50 N64-12835 04-14

LABELLED THYMIDINE AND RADIOAUTOGRAPHY TO ASSESS ADRENAL CELL FORMATION IN ANIMALS AFTER VARIOUS TIMES OF COLD EXPOSURE
AAL-TDR-63-7 N64-13631 05-14

FUNCTION OF ADRENAL GLAND AND HEMATOPOIETIC SYSTEM UNDER TEMPORARY AND PROLONGED HYPOXIA DURING MOUNTAIN CLIMBING - MEDICAL STUDY
N64-15202 07-14

ROLE OF HYPOPHYSEAL-ADRENAL SYSTEM IN IMMUNOLOGICAL AND INFECTION PROCESSES
N64-17168 09-14

EFFECT OF ANESTHESIA ON STRESS REACTION OF RAT PITUITARY AND ADRENAL GLANDS N64-31344 23-14

EFFECT OF STRONG STRESS AND HIGH DOSES OF ADRENOCORTICOTROPIN HORMONE ON MORPHOPHYSIOLOGICAL REORGANIZATION OF RAT ADRENAL GLAND
N64-31345 23-14

WATER INTOXICATION & DIURESIS IN ADRENAL INSUFFICIENCY AND SIGNIFICANCE OF ADRENAL GLAND IN OSMOREGULATION
NASA-TT-F-9115 N64-33397 24-14

ADRENALINE
EFFECT OF ADRENALINE HORMONE ON RADIOSENSITIVITY OF CHROMOSOMES AFTER IONIZING RADIATION IN MICE

JPRS-22522 N64-12068 03-16

ADRENOCORTICOTROPIN
ACTH INJECTION OF RATS IRRADIATED WITH X-RAYS, AND ORGAN PERMEABILITY CHANGES N64-15681 07-16

PAROTID FLUID AND SERUM RESPONSES TO INTRAMUSCULAR INJECTION OF ADRENOCORTICOTROPIN /ACTH/ IN YOUNG ADULT MALES
SAM-TDR-64-37 N64-29286 21-16

RADIATION SICKNESS STUDIES - RADIOPROTECTIVE PROPERTIES OF ADRENOCORTICOTROPIN /ACTH/, USE OF DRUGS IN SICKNESS INDUCED BY POLONIUM INJECTIONS, AND TREATMENT OF SKIN LESIONS
JPRS-26542 N64-29759 21-16

PAROTID FLUID CORTICOSTEROID LEVELS IN ADULT MALES ONE AND TWO HOURS AFTER RECEIVING GRADED INTRAMUSCULAR DOSES OF ADRENOCORTICOTROPIN
SAM-TDR-64-50 N64-31053 22-16

EFFECT OF STRONG STRESS AND HIGH DOSES OF ADRENOCORTICOTROPIN HORMONE ON MORPHOPHYSIOLOGICAL REORGANIZATION OF RAT ADRENAL GLAND N64-31345 23-16

ADSORPTION
CF SORPTION
EYE MELANIN FREE-RADICAL KINETICS & MECHANISM IN RELATION TO ADSORPTION OF OXYGEN BY SEMICONDUCTORS
NADC-MA-6320 N64-12597 04-09

PHYSICAL PROPERTIES OF PALLADIUM CONTAINING ADSORBED HYDROGEN N64-15110 07-19

HYDROLYSIS AND RESIDUE ADSORPTION METHODS FOR SEPARATION OF PROTACTINIUM-231 & PROTACTINIUM-231 DECAY PRODUCTS N64-15661 07-07

CHEMICAL PROCESSING OF ZIRCONIUM FUEL, ALUMINUM FUEL, AND ADSORPTION OF ORGANIC AGENTS ON FISSION PRODUCTS
IDO-14616 N64-16253 08-07

EFFECTS OF CRYSTAL ORIENTATION ON DIFFUSION AND ADSORPTION IN METALS N64-17040 09-25

KINETICS OF ADSORPTION OF COMPONENTS OF RESIDUAL GASES IN ULTRAHIGH VACUUM SYSTEMS - INVESTIGATION BY FLASH METHOD WITH MASS SPECTROMETRY N64-17181 09-23

GAS ADSORPTION ON ORGANIC SURFACE - NITROGEN AND CARBON MONOXIDE ON CYCLOTETRAMETHYLENE TETRA-NITRAMINE /HMX/
PA-TR-3092 N64-18381 10-19

EFFECT OF NITRIC ACID, THORIUM, FLUORIDE, AND ALUMINUM ON PROTACTINIUM ADSORPTION BY UNFIRED VYCOR GLASS
ORNL-3599 N64-19237 11-07

EFFECT OF ADSORPTION OF OXYGEN ON CONDUCTIVITY OF POWDERED NICKEL OXIDE - TRANSIENT IONIC SPECIES EFFECT
GA-4979 N64-21745 15-25

EFFECT OF REACTOR IRRADIATION UPON HYDROGEN ADSORPTION BY ALUMINUM OXIDE CATALYST
BNL-845/T-332/ N64-22045 15-07

SURFACE IONIZATION OF CESIUM - IONIZATION EFFICIENCIES OF TUNGSTEN, RHENIUM, & NIOBIUM, AND INFLUENCE OF ADSORBED GASES
NASA-CR-54047 N64-22444 15-24

ADSORPTION IN THERMIONIC CONVERSION SYSTEMS N64-22978 16-09

ADSORPTION OF COMPOUNDS ON BEARING SURFACES AND COMPARISON OF LUBRICATIVE ABILITY
REPT.-64-232 N64-24011 16-07

SURFACE POTENTIALS AND INDUCED POLARIZATION IN NONPOLAR LIQUIDS ADSORBED ON METALS
NRL-6068 N64-24345 17-07

ADSORPTION OF NITROGEN ON TUNGSTEN WIRE AND CARBON MONOXIDE ON MOLYBDENUM
TR-64-255.7 N64-26215 18-23

OXYGEN ADSORPTION MECHANISMS AT SILVER, GOLD-SILVER, PALLADIUM, PALLADIUM OXIDE, AND PLATINUM ELECTRODE SURFACES - CHEMISORPTION
REPT.-4 N64-27612 19-07

EXPERIMENTAL VALUES OF HEAT OF ADSORPTION FOR SODIUM, RUBIDIUM, AND CESIUM ON TUNGSTEN SUBSTRATE
NASA-TN-D-2430 N64-27740 19-25

HEAT OF ADSORPTION FOR SODIUM, RUBIDIUM, AND CESIUM ON TUNGSTEN SUBSTRATE - CHEMISORPTION
NASA-TN-D-2431 N64-27741 19-25

HEATS OF ADSORPTION OF SODIUM, RUBIDIUM, AND CESIUM IONS ON TUNGSTEN SUBSTRATE
NASA-TN-D-2460 N64-27742 19-25

ADSORPTION OF FLUOROCARBONS ON SILICA AND FERRIC OXIDE GELS
AD-601718 N64-31092 22-07

ADSORPTION AND EXCHANGE OF OXYGEN ISOTOPES ON OXIDIZED PALLADIUM AND SILVER
REPT.-2 N64-31920 23-07

ADSORPTIVITY CHANGE OF SEMICONDUCTOR SURFACE INFLUENCED BY ILLUMINATION
FTD-MT-64-205 N64-32611 23-25

VAPOR-FILLED THERMIONIC CONVERTERS - CESIUM SURFACE ADSORPTION AND PLASMA PHENOMENA
NASA-CR-54194 N64-33100 24-06

INCLUSION COMPLEXES FORMED BY SULFUR, PHOSPHORUS AND MERCURY IN ZEOLITES - SORPTION AND ADSORPTION
AD-447257 N64-33981 24-07

SEMICONDUCTOR LASER, CATALYST ADSORPTION OF OXYGEN, AND SPECTROPHOTOMETRY OF TITANIUM
JPRS-27079 N64-33995 24-07

ADSORPTION OF OXYGEN ON NICKEL OXIDE-LITHIUM OXIDE CATALYSTS N64-33997 24-07

ADVANCED ORBITING SOLAR OBSERVATORY /AOSO/
S AOSO

ADVANCED RANGE INSTRUMENTATION SHIP /ARIS/
ADVANCED RANGE INSTRUMENTATION SHIP EVALUATION AND DATA REDUCTION N64-15317 07-10

ADVANCED RANGE INSTRUMENTATION SHIPS FOR PROVIDING SIGNATURE AND TRAJECTORY INFORMATION INDEPENDENT OF OUTSIDE NAVIGATION REFERENCE - ACCURACY EVALUATION N64-29109 21-08

ADVANCED TEST REACTOR /ATR/
CORROSION OF ALUMINUM ALLOYS USED AS FUEL ELEMENT CLADDING FOR ADVANCED TEST REACTOR /ATR/
ORNL-3541 N64-15718 07-18

ADVECTION
ADVECTION RATES ESTIMATED BY METHOD FOR CALCULATING GRADIENTS OF ADVECTED PROPERTIES - COMPUTER PROGRAM
AFCRL-63-865 N64-11446 03-21

AERIAL PHOTOGRAPHY
CF RECONNAISSANCE
IMAGE QUALITY CATEGORIZATION OF AERIAL PHOTOGRAPHY N64-10530 01-14

THREE-DIMENSIONAL COLOR AERIAL PHOTOGRAPHY FOR TOPOGRAPHICAL AND GEOLOGICAL USE
JPRS-22032 N64-11266 02-12

TERRAIN ANALYSIS AND GEOGRAPHIC STUDY BY AERIAL PHOTOGRAPHS
JPRS-19424 N64-11350 02-12

INFORMATION PROCESSING OF AERIAL PHOTOGRAPHIC DATA

RADC-TDR-63-341 N64-11756 03-23

COMPUTER SIMULATION OF AERIAL PHOTOGRAPHS FOR ADAPTIVE MEMORY RECOGNITION SYSTEM
PHILCO-V044-F N64-12646 04-09

HAZE EFFECT ON CONTRAST IN AERIAL PHOTOGRAPHY
FTD-TT-63-798/1&2 N64-12852 04-23

COLOR FILTERING AND DISPLAY TECHNIQUE EFFECTS ON VISUAL PERCEPTION - SPECTRA ZONAL PHOTOGRAPHY AND TARGET DETECTION
FR-63-11-287 N64-13846 04-14

AERIAL PHOTOGRAPHY FILMS
FTD-TT-63-108/1&2 N64-16415 08-15

AERIAL PHOTOGRAPHIC COVERAGE BY NAVAL AIRCRAFT OF NUCLEAR EXPLOSION
PNE-230F N64-20834 14-15

PHOTOGRAPH INTERPRETATION OF AERIAL PHOTOGRAPHY
RADC-TR-63-482 N64-21848 15-15

AERIAL PHOTOGRAMMETRY WITH COLOR AND SPECTROZONAL PHOTOGRAPHIC MATERIALS
FTD-TT-63-827/1 N64-21957 15-15

CIRCUMFERENTIAL VERTICAL PERSPECTIVE AERIAL CAMERA
FTD-TT-63-1004/1&2&4 N64-21963 15-15

OPTICAL DEVICE WHICH COMPENSATES FOR LINEAR SHIFT IN PANORAMIC STRIP AERIAL PHOTOGRAPHY
FTD-TT-63-1005/1&2&4 N64-21964 15-15

PULSE OPERATED SHUTTER SYSTEM FOR AERIAL CAMERA WITH CELESTIAL ORIENTATION
BRL-MEMO-1533 N64-22081 15-15

AERIAL PHOTOGRAPHY OF ANTARCTIC ICE IN LUTZOW-HOLM BAY VICINITY
N64-23057 16-12

HIGH PRECISION CAMERA FOR AERIAL PHOTOGRAPHY
FTD-MT-63-353 N64-26816 18-15

AERIAL PHOTOGRAPHY - EXTERIOR ORIENTATION OF TWO OVERLAPPING AIR PHOTOS BY REFERENCE POINT DISTRIBUTION
JPRS-25780 N64-27060 19-15

AERIAL PHOTOGRAPHIC DETECTION OF NUCLEAR FALLOUT
URS-640-4 N64-27921 20-15

RECTIFICATION OF OBLIQUE AERIAL PHOTOGRAPHS TO OBTAIN CONTOURS OF BASE SURGE FORMED BY UNDERWATER NUCLEAR EXPLOSION
NOLTR-64-91 N64-29860 21-21

AEROBEE ROCKET

METEOROLOGICAL & BALLISTIC DATA FOR LAUNCHING OF AEROBEE ROCKET
NASA-CR-52377 N64-10613 01-21

METEOROLOGICAL DATA FOR AEROBEE ROCKET LAUNCHING AND IMPACT CALCULATION
ERDA-101 N64-14347 06-21

METEOROLOGICAL DATA FOR AEROBEE ROCKET LAUNCHING AND IMPACT CALCULATION
ERDA-102 N64-14348 06-21

METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE AC 3511 ROCKET & BALLISTICS STUDIES
ERDA-69 N64-14618 06-21

METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE BSRA-02 ROCKET & BALLISTICS STUDIES
ERDA-90 N64-14620 06-21

METEOROLOGICAL DATA FOR AEROBEE ROCKET LAUNCHING
ERDA-91 N64-14625 06-21

METEOROLOGICAL DATA FOR AEROBEE ROCKET LAUNCH
ERDA-80 N64-14787 06-21

METEOROLOGICAL DATA GATHERED FOR LAUNCHING OF AEROBEE ROCKET
ERDA-92 N64-14788 06-21

METEOROLOGICAL DATA FOR AEROBEE ROCKET LAUNCH
ERDA-86 N64-14789 06-21

HIGH RESOLUTION PHOTOGRAPHS OF EXTREME ULTRAVIOLET SOLAR SPECTRUM FROM AEROBEE-HI ROCKET
N64-16023 07-20

IMPACT RESULTS OF AEROBEE 150A LAUNCHINGS AT WALLOPS ISLAND
NASA-TM-X-51579 N64-18500 10-29

REGRESSION EQUATIONS FOR IMPACT PREDICTION OF AEROBEE-HI ROCKET
ERDA-126 N64-18891 11-32

MEASURING LOCAL ELECTRON DENSITY IN IONOSPHERE FROM OBSERVATIONS OF VLF WAVE FIELD - AEROBEE EXPERIMENT
TECH. REPT.-327-TC N64-19231 11-28

IMPACT PREDICTION FOR AEROBEE HI ROCKET
ERDA-138 N64-21692 15-29

FLIGHT VIBRATION DATA OF AEROBEE 150A SOUNDING ROCKET
NASA-TN-D-2314 N64-23025 16-04

AEROBEE ROCKET MEASUREMENT OF SOFT X-RAY FLUXES USING THIN WINDOW GEIGER COUNTERS
ASE-394 N64-24994 17-28

METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE AD 3.152 ROCKET
ERDA-120 N64-25249 17-21

METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE AC 3.513 ROCKET
ERDA-121 N64-25250 17-21

METEOROLOGICAL DATA GATHERED FOR LAUNCHING OF AEROBEE ROCKET
ERDA-124 N64-25252 17-21

METEOROLOGICAL DATA FOR AEROBEE ROCKET LAUNCH
ERDA-134 N64-25505 17-21

METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE ROCKET
ERDA-103 N64-25869 18-21

METEOROLOGICAL DATA AND CALCULATED BALLISTIC DATA FOR AEROBEE ROCKET 4.81 CG LAUNCH
ERDA-144 N64-27428 19-21

METEOROLOGICAL DATA AND CALCULATED BALLISTIC DATA FOR AEROBEE ROCKET 4.86 NA LAUNCH
ERDA-145 N64-27429 19-21

METEOROLOGICAL DATA AND CALCULATED BALLISTIC DATA FOR AEROBEE ROCKET NE 3.154 LAUNCH
ERDA-147 N64-27431 19-21

METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE ROCKET
ERDA-136 N64-28702 20-21

METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE ROCKET
ERDA-139 N64-28704 20-21

SOLAR TELESCOPE OBSERVATIONS AND AEROBEE ROCKET STUDIES OF PLANETARY ATMOSPHERE
N64-28862 20-10

METEOROLOGICAL DATA FOR LAUNCHING AND BALLISTIC STUDIES OF AEROBEE AD 3.355
ERDA-150 N64-31600 23-21

METEOROLOGICAL DATA AND BALLISTIC STUDIES FOR AEROBEE 4.67 NP LAUNCH AND IMPACT PREDICTION
ERDA-151 N64-31912 23-21

METEOROLOGICAL DATA AND CALCULATED BALLISTIC DATA FOR LAUNCHING OF AEROBEE ROCKET
ERDA-143 N64-32124 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING AEROBEE NB 3.147 ROCKET
ERDA-154 N64-32313 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING AEROBEE KP 3.6 ROCKET
ERDA-166 N64-32318 23-21

LAUNCHING OF AEROBEE NASA 4.82 GG - METEOROLOGICAL DATA AND BALLISTIC STUDIES
NASA-CR-59269 N64-33693 24-21

AERODYNAMIC CHARACTERISTICS
AFTERBODY GEOMETRY AND STING DIAMETER EFFECT ON AERODYNAMICS OF SLENDER BODIES AT SUPERSONIC SPEED
NASA-TN-D-2042 N64-10335 01-02

AERODYNAMIC AND ECONOMIC CHARACTERISTICS OF IL-62 TURBOJET PASSENGER AIRCRAFT N64-10775 02-04

CHARACTERISTICS OF BLACK BRANT I ROCKET - PRE-FLIGHT CALCULATIONS AND FLIGHT TEST RESULTS FROM FIRST SEVEN FIRINGS
CARDE-TN-695/63 N64-11634 03-04

TAKEOFF & LANDING CHARACTERISTICS OF TRANSPORT AIRCRAFT
AGARD-417 N64-11806 03-04

DYNAMICS OF GASES & PLASMAS, AERODYNAMICS OF SUBSONIC VEHICLES, FATIGUE IN METALS AND METAL STRUCTURES, BLAST WAVE PHENOMENA
AD-423576 N64-12972 04-23

AERODYNAMIC CHARACTERISTICS OF TWO-DIMENSIONAL TURBULENT COMPRESSIBLE JETS
A-1771-24 N64-13956 05-11

AXIAL FORCE, STABILITY, & ENVIRONMENTAL PRESSURE DATA ANALYSES FROM FLIGHT EVALUATION OF SATURN I, BLOCK I VEHICLES
NASA-TN-D-2002 N64-14392 06-30

AERODYNAMIC PERFORMANCE OF SUPERSONIC WIND-TUNNEL COMPRESSOR WITH FIRST CYLINDER REMOVED
AEDC-TDR-64-16 N64-14975 06-10

AERODYNAMIC FACTORS AFFECTING DESIGN OF ORBITING REENTRY VEHICLES - HEAT SHIELD, DRAG, AND LIFT
ER-673, VOL. 1 N64-15193 07-30

AERODYNAMICS, HEAT TRANSFER, AND FLIGHT CHARACTERISTICS OF VARIOUS AIRCRAFT AT VARIOUS SPEEDS
AD-429753 N64-15626 07-11

AERODYNAMIC PHENOMENA ASSOCIATED WITH HIGH PERFORMANCE, SLENDER REENTRY VEHICLES N64-15631 07-30

WIND TUNNEL MEASUREMENT OF AERODYNAMIC CHARACTERISTICS OF AIRCRAFT MODEL AT HYPERSONIC VELOCITY
AEDC-TDR-64-31 N64-16062 07-04

FLIGHT AND GROUND-BASED DYNAMIC FLIGHT SIMULATOR, STUDY OF HANDLING AND AERODYNAMICS OF LOW-ALTITUDE, HIGH-SPEED AIRCRAFT
AGARD-443 N64-16292 08-04

AERODYNAMIC CHARACTERISTICS OF LONG BLADES FOR LAST STAGES OF TURBINE
FTD-TT-63-133/1&2&3&4 N64-16478 08-03

HYPERSONIC AERODYNAMIC CHARACTERISTICS OF LIFTING BODIES BY NEWTON PRESSURE LAW
AEDC-TDR-64-25 N64-16878 08-02

AERODYNAMIC TESTS USING SPECIAL RESEARCH AIRCRAFT N64-17019 09-10

LIFT DISTRIBUTION ON WINGS IN UNBOUNDED FLOW FIELD NEAR GROUND - AERODYNAMIC CHARACTERISTICS
RAE-TRANS-1054 N64-17249 09-03

AERODYNAMIC CHARACTERISTICS OF HELICOPTER ROTORS AND CONTRIBUTIONS TO STABILITY PARAMETERS OF HELICOPTERS
REPT.-659 N64-17741 09-03

TRANSONIC PRESSURE TUNNEL TEST OF AERODYNAMIC CHARACTERISTICS AND SURFACE PRESSURE MEASUREMENTS FOR MODEL OF RAM B LAUNCH VEHICLE
NASA-TN-D-2204 N64-17747 09-31

LOW SPEED AERODYNAMIC CHARACTERISTICS OF TRANSPORT AIRCRAFT MODEL WITH LARGE BODIES MOUNTED ABOVE FUSELAGE
NASA-TN-D-2205 N64-17748 09-13

FREE FLIGHT DYNAMIC DAMPING OF AXISYMMETRIC BODY
NASA-CR-53366 N64-17819 09-02

AERODYNAMIC CHARACTERISTICS OF ATMOSPHERIC TURBULENCE AT VERY LOW ALTITUDES
AGARD-440 N64-19093 11-21

AERODYNAMIC CHARACTERISTICS OF AIRCRAFT CONFIGURATIONS WITH HIGHLY SWEPT TWISTED AND CAMBERED ARROW WINGS AT HYPERSONIC SPEEDS N64-20294 13-04

WIND TUNNEL INVESTIGATION OF SINGLE AND TANDEM LOW ASPECT RATIO WINGS IN GROUND EFFECT
REPT. 16906 N64-21075 14-03

LOW SPEED AERODYNAMICS OF STRAIGHT AND SWEPT WINGS WITH FLOW SEPARATION
VIDYA-91 N64-21152 14-03

AERODYNAMIC ANALYSIS AND WIND TUNNEL TESTS ON FLEXIBLE WING N64-21205 14-03

AERODYNAMIC CHARACTERISTICS OF THIN AIRFOIL IN NONEQUILIBRIUM STREAM AT SMALL ANGLE OF ATTACK
NASA-TR-R-201 N64-21262 14-03

EFFECTS OF THREE DIMENSIONAL ROUGHNESS TRIPS ON AERODYNAMIC CHARACTERISTICS AND BOUNDARY LAYER TRANSITION OF WING-BODY-TAIL CONFIGURATION
NASA-TN-D-2334 N64-22023 15-02

AERODYNAMIC CHARACTERISTICS OF PARAFOIL GLIDER AND OTHER GLIDING PARACHUTES
RTD-TDR-63-4022 N64-22281 15-04

AERODYNAMIC CHARACTERISTICS OF CYLINDRICAL SHELLS AND WINGS
FTD-TT-62-1111/1&2 N64-23066 16-03

AERODYNAMIC CHARACTERISTICS OF THIN CURVED BODIES AND CURVED SURFACE WINGS N64-23067 16-03

INFLUENCE OF AIR STREAM FLOW ON AERODYNAMIC CHARACTERISTICS OF PROFILE WITH SLOTTED FLAP FOR DIFFERENT AIR STREAM TYPES N64-23069 16-03

AERODYNAMIC CHARACTERISTICS OF JET V/STOL AIRCRAFT
ASME PAPER-864A N64-23378 16-04

AERODYNAMIC CHARACTERISTICS OF BODIES OF REVOLUTION WITH FINS - ANNOTATED BIBLIOGRAPHY
SB-63-76 N64-23880 16-02

AERODYNAMIC CHARACTERISTICS OF SATURN V LAUNCH VEHICLE FOR REACTOR IN-FLIGHT TEST /RIFT/ PROJECT
NASA-CR-56646 N64-24017 16-27

ACOUSTICS, DYNAMIC BEHAVIOR, AND AERODYNAMIC CHARACTERISTICS OF CARAVELLE AIRCRAFT N64-25116 17-04

AERODYNAMICS, PROPULSION, AND STRUCTURE OF SPACECRAFT - AIRFLOW, THERMAL TRANSFER, AND STRESS N64-25182 17-01

STATIC AERODYNAMIC CHARACTERISTICS, STABILITY DERIVATIVES, & INTERFERENCE FOR DUCTED PROPELLERS
VIDYA-112 N64-25790 17-03

AERODYNAMIC CHARACTERISTICS OF WEDGE AIRFOILS
NASA-TR-R-202 N64-25811 17-03

MEASUREMENT OF AERODYNAMIC COEFFICIENTS OF SMALL ASPECT RATIO AILERONS AT TRANSONIC SPEEDS
ONERA-TN-75 N64-25849 18-03

AERODYNAMIC CHARACTERISTICS OF SATURN V LAUNCH VEHICLE AT SUPERSONIC SPEEDS
NASA-TN-D-2352 N64-25912 18-02

HYPERSONIC FLOW AERODYNAMIC CHARACTERISTIC PROBLEMS OF THE FUTURE N64-26127 18-13

AERODYNAMIC CHARACTERISTICS OF GENERAL & SPECIFIC LIFTING & NONLIFTING CONFIGURATIONS AT MACH 24 N64-26135 18-02

SUPERSONIC AERODYNAMIC CHARACTERISTICS OF SERIES OF BODIES WITH VARIATIONS IN FINENESS RATIO AND CROSS-SECTION ELLIPTICITY
NASA-TN-D-2389 N64-26775 18-02

CLIMATOLOGICAL AND AERODYNAMIC CHARACTERISTICS OF RADIO ANTENNAS N64-27332 19-08

TRANSONIC FLOW ON TWO-DIMENSIONAL WINGS - AERODYNAMIC CHARACTERISTICS N64-27782 19-03

AERODYNAMICS OF FLEXIBLE WINGS AT LOW SPEEDS
VIDYA-133 N64-27789 19-03

ANNOTATED BIBLIOGRAPHY OF AERODYNAMIC CHARACTERISTICS OF BODIES OF REVOLUTION WITHOUT FINS
SB-63-75 N64-27793 19-02

AERODYNAMIC CHARACTERISTICS OF SLENDER CAMBERED GOTHIC WINGS AT TRANSONIC SPEEDS
ARC-R&M-3370 N64-28083 20-03

AERODYNAMIC CHARACTERISTICS OF ROCKET NOZZLES N64-28184 20-27

TRANSONIC AERODYNAMIC AND BUFFET CHARACTERISTICS OF PACKAGED MANNED ORBITAL SPACE STATION /MOSS/ ON SATURN V LAUNCH VEHICLE
NASA-TN-X-1000 N64-28318 20-32

AERODYNAMIC CHARACTERISTICS OF FAN-IN-WING VTOL AIRCRAFT MODEL - GROUND EFFECT WITH NOSE FAN PITCH CONTROL
NASA-TN-D-2368 N64-28323 20-04

LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF LARGE-SCALE SEMISPAN V/STOL TILT-WING CONFIGURATION
NASA-TN-D-2412 N64-28325 20-03

TRANSONIC AERODYNAMIC CHARACTERISTICS OF CANARD AIRCRAFT
NASA-TN-D-2465 N64-28338 20-02

AERODYNAMIC CHARACTERISTICS OF STANDARD HYPERSONIC BALLISTIC MODELS FOR CORRELATION OF VARIOUS TEST FACILITY DATA
AEDC-TDR-64-137 N64-28612 20-02

FLIGHT CHARACTERISTICS OF BOMB WITH CRUCIFORM TAIL
WRE-TN-SAD-102 N64-28732 20-02

AERODYNAMIC AND AEROTHERMODYNAMIC STUDY ON HIGH ALTITUDE SOUNDING PROJECTILE /HASP/
NOLTR-63-210 N64-28875 20-02

AERODYNAMIC CHARACTERISTICS OF SLENDER CAMBERED GOTHIC WINGS AT TRANSONIC SPEEDS N64-29331 21-03

FLOW EFFECTS ON AERODYNAMIC CHARACTERISTICS OF SEVERAL CONFIGURATIONS OF CONICAL CONTOURED NOZZLES AT HYPERSONIC SPEED
NASA-TN-D-2489 N64-29496 21-02

AERODYNAMICS OF TILT-WING PROPELLER DRIVEN V/STOL CONFIGURATION
NASA-TN-D-1586 N64-31221 22-03

AERODYNAMIC CHARACTERISTICS OF WEDGE-SHAPED TWO-DIMENSIONAL AIRFOILS IN SUPERSONIC VISCOUS FLOW
AS-64-8 N64-32218 23-03

AERODYNAMIC CHARACTERISTICS OF SLENDER CONICAL AND FLAT PLATE BODIES AT HIGH SUPERSONIC SPEEDS
RAC-2451 N64-32470 23-02

WIND TUNNEL TESTS ON ENTRY BODY IN AIR AND CARBON DIOXIDE MIXTURES TO DETERMINE AERODYNAMIC EFFECTS OF ATMOSPHERE
AIAA PAPER-64-481 N64-32945 24-02

HYPERSONIC WIND TUNNEL TEST OF BLUNT-NOSE FLARED CYLINDER MODEL FOR AERODYNAMIC CHARACTERISTICS IN AIR-CARBON DIOXIDE MIXTURES
NASA-CR-59186 N64-33218 24-02

NOSE CONE SHAPE, AFTERBODY LENGTH, & SUPERSONIC SPEED VARIATION EFFECT ON AERODYNAMIC CHARACTERISTICS OF AXISYMMETRIC BODY
RF-TR-64-13 N64-33646 24-02

AERODYNAMIC CHARACTERISTICS OF SELF-PROPELLED MODEL OF AIR CUSHION VEHICLE IN HOVERING FLIGHT - GROUND EFFECT TAKEOFF AND LANDING /GETOL/ MODEL
UTIASTN-74 N64-33650 24-02

ESTIMATING ROTARY WING AERODYNAMIC CHARACTERISTICS AT HOVER AND HIGH FORWARD SPEEDS
NASA-CR-114 N64-34014 24-03

AERODYNAMIC CHARACTERISTICS ESTIMATION FOR ROTARY WINGS AT HIGH FORWARD SPEEDS
NASA-CR-115 N64-34015 24-03

AERODYNAMIC COEFFICIENT

ANALOG COMPUTER FOR EVALUATION OF AERODYNAMIC COEFFICIENTS DURING WIND TUNNEL STATIC STABILITY TESTS
NOLTR-64-74 N64-33860 24-10

CALCULATION OF AERODYNAMIC COEFFICIENTS OF ROTATING BODIES AT GREATER SUPERSONIC SPEEDS USING FORMULAS DERIVED FROM NEWTON RESISTANCE LAW
FTD-TT-64-561/1 N64-33942 24-02

AERODYNAMIC FORCE

THEORETICAL AND EXPERIMENTAL VALUES OF AERODYNAMIC FORCES ACTING ON WINGS AND CONTROLS IN OSCILLATION AT LOW MACH NUMBERS
ARC-CP-681 N64-10054 01-03

AEROELASTICITY - MOTION EQUATIONS, AERODYNAMIC FORCES, STABILITY AND CONTROL, FLUTTER, AND NOISE EFFECTS N64-13553 05-33

WIND-TUNNEL TEST OF ASTROBEE 1500 ROCKET MODEL TO MEASURE SIX-COMPONENT FORCES AND MOMENTS
NASA-CR-53042 N64-14891 06-02

AERODYNAMIC FORCES ON BODY SURROUNDED BY HYPERSONIC FLOW WITH SEPARATION ZONE N64-16390 08-02

CYLINDER DRAG FORCES IN HYPERSONIC FREE JET OF RAREFIED AIRSTREAM
AS-64-3 N64-17280 09-02

PROPULSION SYSTEM REQUIREMENTS FOR CIRCULAR ORBIT PLANE CHANGE WITH AND WITHOUT AUXILIARY AERODYNAMIC FORCES
SSD-TDR-63-366 N64-17898 10-29

CALCULATION METHOD FOR AERODYNAMIC FORCES ON WING PLANFORM IN SUBSONIC NONVISCOUS FLOW
NLR-TN-W.2 N64-18332 10-03

AERODYNAMIC DRAG OF BLUNT CONES IN HYPERSONIC RAREFIED FLOW OF NITROGEN AND ARGON
AEDC-TDR-64-60 N64-19067 11-02

AERODYNAMIC FORCE AND KINETIC ENERGY OF PARTICLES IMPINGING ON BODY IN SUPERSONIC FLIGHT
FTD-TT-63-361/1&2&4 N64-19217 11-11

AERODYNAMIC FORCES ACTING ON RANDOM BODIES WITH FRONTAL DISRUPTION ZONE IN HYPERSONIC FLOWS
FTD-TT-63-1206/1&2 N64-19764 12-02

AERODYNAMIC DRAG AND GUST LOADING OF SAILPLANES DURING TOWING
DVL-267 N64-19787 12-04

AERODYNAMIC FORCES ON COMBINATION OF WING AND FIN OSCILLATING IN SUBSONIC FLOW
SAAB-TN-54 N64-20427 13-03

AERODYNAMIC FORCES ON OSCILLATING FINITE WINGS
SAAB-TN-53 N64-20526 13-03

AIRCRAFT WING FLUTTER CAUSED BY NONLINEAR

AERODYNAMIC FORCES
FTD-TT-63-201/1&2 N64-22345 15-03

PREDICTION OF INERTIAL, GRAVITATIONAL, AND AERODYNAMIC FORCE EFFECTS ON VEHICLE SPIN MOTION
FIE-4-059 N64-25019 17-23

ORBITAL PLANE-CHANGE MANEUVER USING COMBINATION OF AERODYNAMIC AND PROPULSIVE FORCES
SSD-TDR-64-98 N64-26107 18-22

SIX-COMPONENT WIND TUNNEL BALANCE FOR MEASURING SMALL AERODYNAMIC FORCES
FTD-TT-64-46/1&2 N64-26111 18-15

AERODYNAMIC FORCES AND MOMENTS OF AIRFOIL PROFILES
N64-27345 19-03

INFLUENCE OF GROUND DEFLECTION ON AERODYNAMIC FORCES OF OSCILLATING TILTED AIRFOIL
AIAA PAPER-64-563 N64-29769 21-03

MEASUREMENT OF FORCES AND MOMENTS ACTING ON VEHICLE MOVING AT HIGH SPEED WITHIN TUBE - FACILITY AND INSTRUMENTATION N64-30405 22-02

AERODYNAMIC HEAT TRANSFER
HEAT TRANSFER TO SURFACE RECESSED WITHIN FORWARD STAGNATION REGION SLIT UNDER SUBSONIC ARC JET CONDITIONS
NASA-TN-D-2034 N64-11899 03-13

SURFACE PRESSURE AND HEAT TRANSFER DISTRIBUTION ON BLUNT DELTA WINGS OF ELLIPTIC CROSS SECTION AT HYPERSONIC SPEED
ARL-63-231 N64-16061 07-03

ARC SHOCK TUBE MEASUREMENTS OF AERODYNAMIC AND RADIATIVE HEATING AT SUPERORBITAL VELOCITIES
REPT.-1598-1 N64-17335 09-13

PRESSURE, HEAT TRANSFER & FORCE DISTRIBUTION ON SLAB DELTA WING IN AIR AND HELIUM HYPERSONIC FLOW
NASA-TR-R-153 N64-19721 12-02

LABORATORY SYSTEM FOR SIMULATION OF AERODYNAMIC AND RADIATIVE COOLING OF STRUCTURES
RTD-TDR-63-4235 N64-20863 14-10

CONTRIBUTION OF AERODYNAMICALLY PRODUCED ATMOSPHERIC ACOUSTIC WAVES TO HEATING OF POLAR NIGHT MESOSPHERE
NASA-RP-181 N64-21305 14-12

HEAT TRANSFER ON UNSWEPT AND SWEPT CYLINDRICALLY BLUNTED WEDGE FINS IN FREE FLIGHT AT SUPERSONIC SPEEDS
NASA-TN-D-2386 N64-26774 18-13

HEAT TRANSFER DISTRIBUTION ON SWEPT DELTA WINGS WITH SHARP OR BLAND NOSES AND CYCLINDRICAL LEADING EDGE AT MACH 9.86 UP TO 90-DEG ANGLE OF ATTACK
NASA-TN-D-2302 N64-31731 23-13

PRESSURE AND HEAT TRANSFER MEASUREMENTS FOR MACH 21 FLOWS OVER BLUNT PYRAMIDAL BODY WITH AERODYNAMIC CONTROLS
FDL-TDR-64-120 N64-33351 24-02

AERODYNAMIC HEATING
CF ABLATION
CF AEROTHERMOELASTICITY
AERODYNAMIC HEATING OF CONICAL VEHICLES ENTERING EARTH ATMOSPHERE AT SPEEDS GREATER THAN EARTH PARABOLIC SPEED
NASA-TR-R-185 N64-12107 03-30

AERODYNAMIC HEATING OF HIGH SPEED AIRCRAFT
ABL/EPA-11 N64-14628 06-13

SHALLOW ATMOSPHERIC ENTRY - ANALYSIS OF REENTRY TRAJECTORY, AERODYNAMIC HEATING AND VEHICLE ATTITUDE DYNAMICS
RTD-TDR-63-3098 N64-14908 06-30

IBM 7090 FORTRAN PROGRAM TO DETERMINE TRANSIENT AERODYNAMIC HEATING AND ABLATION OF VEHICLES IN ARBITRARY FLIGHT TRAJECTORIES
SSD-TDR-63-159 N64-15960 07-13

WALL TEMPERATURE MEASUREMENTS MADE ON 15-DEG CONE AT HYPERSONIC SPEEDS - AERODYNAMIC HEATING
ARC-R&M-3357 N64-18154 10-02

METHOD FOR CALCULATING SURFACE TEMPERATURE OF WALLS UNDER AERODYNAMIC HEATING WITH GIVEN HEAT TRANSFER COEFFICIENT AND WALL TEMPERATURE
WRE-TN-HSA-95 N64-19072 11-13

AERODYNAMIC HEATING PARAMETER ASSOCIATED WITH SPACE VEHICLES - BIBLIOGRAPHY
SB-63-18 N64-19131 11-13

HAZARDS OF SATELLITE REENTRY DUE TO AERODYNAMIC HEATING - PROTECTIVE COATINGS & COOLING METHODS
FTD-TT-63-55/1&2 N64-19743 12-30

CONDUCTIVE HEAT TRANSFER IN SINGLE AND DOUBLE LAYER WALLS WITH BOUNDARY CONDITIONS APPROPRIATE TO AERODYNAMIC HEATING
HSA-16 N64-21202 14-13

MEASUREMENT OF AERODYNAMIC HEATING ON SHARP CONES ENTERING EARTH ATMOSPHERE
AIAA PAPER-64-252 N64-21541 15-13

SUPERSONIC AERODYNAMIC HEATING OF BODIES IN MOTION
FTD-TT-63-816/1&2 N64-21936 15-13

CAUSES, EFFECTS, AND PROTECTION AGAINST AERODYNAMIC HEATING AT SUPERSONIC SPEEDS
FTD-TT-63-976/1&2 N64-21960 15-13

AERODYNAMIC HEATING OF ATMOSPHERIC REENTRY VEHICLES
NASA-TM-X-54056 N64-23266 16-13

BEHAVIOR OF AERODYNAMICALLY HEATED PLATES AND SHELLS IN SUPERSONIC GAS FLOW N64-23682 16-11

OBTAINING AERODYNAMIC HEATING RESULTS FROM ANALYSIS OF METEOR FLIGHT DATA
NASA-TN-D-2069 N64-26305 18-30

LIQUID METAL EXPANSION TECHNIQUE FOR MEASURING TOTAL AERODYNAMIC HEATING RATES TO HYPERSONIC REENTRY VEHICLES OF COMPLEX SHAPE
NASA-TN-D-2446 N64-28333 20-02

AERODYNAMIC HEATING AND HEAT TRANSFER FROM SKIN OF ROCKETS AND MISSILES
FTD-TT-63-390/1&2 N64-29586 21-13

AERODYNAMIC HEATING OF HYPERSONIC GLIDER WINGS
REPT.-615D12 N64-30073 21-13

AERODYNAMIC LOAD
SA GUST LOAD
DISTRIBUTION OF AERODYNAMIC LOADS ON WINGS OF CONSTANT CROSS SECTION - END RESTRAINTS
FTD-TT-63-751/1&2&3&4 N64-12623 04-03

LOADING FORMULAS FOR TAILED AIRPLANE IN PULLOUT MANEUVERS
ARC-R&M-3327 N64-13355 04-04

DYNAMIC WIND-TUNNEL MODEL FOR STABILITY, CONTROL, AND RESPONSE CHARACTERISTICS & FLIGHT LOAD TESTING OF AIRCRAFT
TECH. LETTER 1310 N64-14830 06-10

RHEOELECTRIC SIMULATION METHOD FOR MEASURING EFFECTS OF GROUND PROXIMITY ON WINGS
DTMB-AERO-1068 N64-20420 13-03

GROUND WIND LOADS IN LAUNCH VEHICLES
NASA-TM-X-54024 N64-20550 13-30

DEFLECTIONS AND INTERNAL LOADS FOR X-20 GLIDER TRUSS STRUCTURE
D2-81242 N64-22262 15-34

AERODYNAMIC LOADING ON SHROUD OF FINITE-BLADED DUCTED PROPELLER
TAR-TR-639 N64-22541 15-03

AERODYNAMIC LOADING ON STREAMLINED DUCTED BODIES
TAR-TR-625 N64-25080 17-02

RIGID BODY WIND RESPONSES FOR USE IN IN-FLIGHT LOAD CALCULATIONS
NASA-TM-X-53042 N64-27238 19-02

STRUCTURALLY SUPPORTED RADOME STUDIES - PREDICTION OF PLANE WAVE TRANSMISSION PERFORMANCE OF SPACE FRAME AND DEFINITION OF AERODYNAMIC LOAD LIMITS
IER-2 N64-28200 20-34

LOADING TEST DATA FOR X-20 LEADING EDGES
D2-80085, VOL. 3 N64-31241 22-13

AERODYNAMIC STABILITY
FACTORS INFLUENCING AERODYNAMIC STABILITY OF HYPERSONIC INTERCEPTOR TYPE MISSILE
N64-15629 07-30

DRAG AND STABILITY INVESTIGATIONS OF MARINER-B SHAPE A-1 AND JPL CONFIGURATION V-1 AT VELOCITIES FROM 13,000 TO 18,000 FPS IN VARYING ATMOSPHERES
NASA-CR-55543 N64-16321 08-29

MODEL TESTING TO DETERMINE AERODYNAMIC STABILITY OF V/STOL AIRCRAFT N64-17015 09-04

SMALL-AMPLITUDE FORCED OSCILLATION TECHNIQUE FOR DETERMINING DAMPING AND OSCILLATORY STABILITY IN ROLL, PITCH, AND YAW IN FREE FLIGHT
N64-17016 09-30

EQUILIBRIUM CONFIGURATION OF CAPTIVE BALLOON FLYING CABLES
ARC-R&M-3333 N64-17256 09-04

AERODYNAMIC CHARACTERISTICS OF HELICOPTER ROTORS AND CONTRIBUTIONS TO STABILITY PARAMETERS OF HELICOPTERS
REPT.-659 N64-17741 09-03

WIND TUNNEL TESTS OF AERODYNAMIC STABILITY AND CONTROL CHARACTERISTICS OF VTOL AIRCRAFT POWERED BY FOUR DUCTED TANDEM PROPELLERS
NASA-TN-D-2254 N64-17750 09-04

ADJUSTABLE TIP WEIGHTS ON MAIN ROTOR BLADES FOR IMPROVEMENT OF HELICOPTER STABILITY THROUGH INCREASED DAMPING
HTC-AD-63-16 N64-17801 09-04

AUTOPILOT DESIGN FOR OPTIMUM CONTROL OF AERODYNAMICALLY UNSTABLE BOOSTER
RES. REPT.-63-RC-8 N64-18474 10-06

HYPERSONIC STABILITY AND CONTROL UNDER TRIMMED FLIGHT CONDITIONS
R-63-011-104 N64-18706 11-04

LOW SPEED WIND TUNNEL TESTS OF KITE BALLOON MODEL AERODYNAMIC STABILITY
ARC-CP-643 N64-21700 15-02

EFFECT OF ATMOSPHERIC RESISTANCE ON DYNAMICS OF GRAVITATIONAL STABILIZATION SYSTEM OF ARTIFICIAL EARTH SATELLITES N64-23855 16-23

TUMBLING MOTION OF AERODYNAMICALLY STABLE BODY ON ATMOSPHERIC ENTRY
NASA-TR-R-203 N64-24075 16-29

WALL EFFECTS ON DRAG OF BODY MOVING IN TUBE FOR VARIOUS BODY SHAPES, REYNOLDS NUMBERS, BODY-TO-DUCT RATIOS, AND TUBE-END CONDITIONS
N64-30406 22-02

AERODYNAMIC STABILITY OF BILATERALLY SYMMETRICAL TOWED BODY
NOLTR-64-116 N64-30595 22-03

LAUNCHING OF AERODYNAMICALLY STABLE CONES BY LIGHT GAS GUN
CARDE-TN-1604/64 N64-33488 24-10

AERODYNAMIC VEHICLE
TRAJECTORY OF HYPERSONIC AERODYNAMIC LIFTING REENTRY VEHICLE IN BALLISTIC RANGE
CARDE-TR-512/64 N64-33471 24-02

AERODYNAMICS
SA AERODYNAMIC FORCE
SA AERODYNAMIC HEAT TRANSFER
SA AERODYNAMIC HEATING
SA AERODYNAMIC LOAD
SA AERODYNAMIC STABILITY
SA GAS DYNAMICS
CF FLUID MECHANICS
FLUID DYNAMICS, ELECTRONICS, AERODYNAMICS, HYPERSONICS, VERTICAL TAKEOFF, AND SEPARATED FLOW STUDIES N64-11878 03-01

AEROELASTICITY - MOTION EQUATIONS, AERODYNAMIC FORCES, STABILITY AND CONTROL, FLUTTER, AND NOISE EFFECTS N64-13553 05-33

THEORETICAL AERODYNAMICS OF FLEXIBLE WINGS AT LOW SPEEDS - ONE-LOBED PARAWINGS
VIDYA-84 N64-13620 05-03

WIND-TUNNEL THEORY, AND THEORETICAL AEROELASTICITY
N64-14262 06-10

STRUCTURAL & AERODYNAMIC CONSIDERATIONS FOR VARIABLE SWEEP AIRCRAFT
AGARD-438 N64-14414 06-04

SPACE FLIGHT SUPPORTING PROGRAMS - GUIDANCE & CONTROL, PROPULSION, POLYMER PHYSICS, TELECOMMUNICATIONS, AND AERODYNAMICS
NASA-CR-53054 N64-14896 06-01

PREDICTION OF AERODYNAMIC PENALTIES CAUSED BY ICE FORMATIONS ON VARIOUS AIRFOILS
NASA-TN-D-2166 N64-15162 07-03

SUPERSONIC AND HYPERSONIC AERODYNAMICS AT VON KARMAN GAS DYNAMICS FACILITY N64-15635 07-10

AERODYNAMIC DESIGN OF WINGS WITH CAMBERED SPAN HAVING MINIMUM INDUCED DRAG
NASA-TR-R-152 N64-15974 07-03

AERODYNAMICS OF OSCILLATING CASCADE FLOW
DVL-248 N64-16204 08-03

BIBLIOGRAPHY OF AERODYNAMICS, INSTALLATIONS, HEAT TRANSFER, THERMODYNAMICS, AND ELECTRONICS RESEARCH FOR WEAPONS SYSTEM 107A-1
GDA-ACW64-002 N64-16985 09-30

AERODYNAMICS AND GASDYNAMICS OF FLOWS AT SUPERSONIC AND HYPERSONIC SPEEDS
AID-B-64-3 N64-17519 09-11

INFORMATION RETRIEVAL AND COMPUTER PROGRAMS AS APPLIED TO AERODYNAMICS
CPIA-PUBL-45 N64-17523 09-01

AIRPLANE LANDING AND STOPPING - AERODYNAMICS
AGARD-435 N64-17540 09-10

MECHANISMS FOR BURNISHING OF AERODYNAMIC SURFACES
JPRS-24052 N64-17834 09-17

AERODYNAMIC RESEARCH OF ARCHER SOUNDING ROCKET
NOLTR-63-144 N64-18034 10-32

AERODYNAMICS, STRUCTURES, PROPERTIES OF METALS AND ALLOYS, MECHANICAL ENGINEERING, GUIDED WEAPONS, AND AIRCRAFT OPERATION RESEARCH
N64-18420 10-01

AERODYNAMIC OPERATION OF HYPERSONIC VON KARMAN GAS DYNAMIC TUNNEL FACILITY
AD-435787 N64-18632 11-16

PROPULSION, AERODYNAMICS, TURBULENT FLOW, AND COMBUSTION AT HYPERSONIC SPEEDS
N64-18719 11-27

AIRFLOW DIRECTION ON WING OF FLYING BIRD OBSERVED BY VANE AND SILK THREAD METHOD - AERODYNAMICS
JPRS-24357 N64-18980 11-16

CORRELATION OF LAUNCH VEHICLE WIND TUNNEL AERODYNAMIC NOISE WITH SPACECRAFT FLIGHT VIBRATION DATA
NASA-CR-53922 N64-19898 12-23

HYDRODYNAMICS AND AERODYNAMICS OF OSCILLATING WING

PROPULSION IN UNIFORM FLOW
AD-436778 N64-20137 13-03

KINETICS AND AERODYNAMICS OF OXIDATION OF METALS BY PARTIALLY DISSOCIATED OXYGEN
AEROCHEM-TN-61 N64-20352 13-18

AERODYNAMIC NOISE IN AIRCRAFT AND WIND TUNNELS
SR-AE-2-63 N64-20438 13-23

AERODYNAMIC MEASUREMENT TECHNIQUE
WGLR-8/1963 N64-21695 15-10

SHOCK TUBE FOR PRODUCING SUBSONIC, TRANSONIC AND SUPERSONIC FLOWS FOR AERODYNAMIC TESTING
SSD-TDR-63-32 N64-22620 15-10

AERODYNAMIC PROBLEMS IN HIGH SPEED ATMOSPHERIC ENTRY, EXIT, AND CRUISE
AIAA PAPER-64-514 N64-23232 16-04

AERODYNAMIC BRAKING TRAJECTORIES FOR PLANETARY ORBIT ATTAINMENT
AIAA PAPER-64-478 N64-24165 16-04

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REPT.-64-20 N64-25207 17-11

SHIP STABILIZING SYSTEMS, PURE FLUID SYSTEMS, AND PROJECTED DEVELOPMENTS IN MECHANICS, AERODYNAMICS, THERMODYNAMICS, AND HYDRODYNAMICS
DME/NAE-1964 /1/ N64-26284 18-06

SPINNING SYMMETRIC BODY TRAVELING AT CONSTANT SPEED IN AERODYNAMIC FORCE FIELD
NASA-CR-58582 N64-28993 20-02

SUPERSONIC FLOW CAPABILITY OF ALTITUDE TEST FACILITY FOR AERODYNAMIC RESEARCH AND FREE JET AIR BREATHING ENGINE TESTING
RATTE-ATL-92 N64-30184 21-10

RESEARCH PROJECTS IN MECHANICS, HYDRODYNAMICS, AERODYNAMICS AND THERMODYNAMICS
DME/NAE 1963/4/ N64-30369 22-17

SECOND-ORDER SOLUTION OF ARTIFICIAL EARTH SATELLITE THEORY WITHOUT AIR DRAG
NASA-TN-D-1752 N64-30610 22-29

CONSTRUCTION OF EQUATIONS WITH APPROXIMATE SOLUTIONS TO PROBLEMS OF AERODYNAMICS OF RAREFIED GASES
FTD-MT-64-114 N64-30647 22-11

WALL PRESSURE FLUCTUATIONS AND PRESSURE VELOCITY CORRELATIONS IN TURBULENT BOUNDARY LAYERS CREATED BY AERODYNAMIC NOISE
AGARD-453 N64-31296 22-11

FREE-FLIGHT BOUNDARY-LAYER AERODYNAMIC NOISE MEASUREMENTS
AGARD-467 N64-32386 23-11

SABOT DESIGN FOR GUN-LAUNCHING OF AERODYNAMIC MODELS - PROJECT DEFENDER
CTN64-04 N64-32683 23-10

CORRELATION BETWEEN WIND TUNNEL AERODYNAMIC NOISE DATA FOR LAUNCH VEHICLE AND IN-FLIGHT VIBRATION DATA
NASA-CR-58776 N64-33158 24-31

AERODYNAMICS AND HYPERSONIC WIND TUNNEL TESTS OF NIKE-IROQUOIS MODEL
NASA-CR-58850 N64-33217 24-02

AERODYNAMIC BLAST SIMULATION IN HYPERSONIC WIND TUNNELS
SSD-TDR-64-175 N64-33349 24-10

AEROELASTICITY
SA PANEL FLUTTER
SA WING LOADING
CF AEROTHERMOELASTICITY
FLUTTER ANALYSIS OF FAILURE AND VIBRATIONAL MODE FOR AIRCRAFT N64-13552 05-01

AEROELASTICITY - MOTION EQUATIONS, AERODYNAMIC FORCES, STABILITY AND CONTROL, FLUTTER, AND NOISE EFFECTS N64-13553 05-33

AEROELASTICITY - STRUCTURAL DEFORMATION IN AIRCRAFT BY EXTERNAL FORCES N64-13554 05-33

NATURAL VIBRATIONAL MODE AND FREQUENCY EFFECT ON AIRCRAFT STRUCTURES N64-13555 05-33

INFLUENCE OF VISCOELASTIC DAMPING ON AIRCRAFT RESONANCE N64-13556 05-33

VIBRATION TESTING OF LINEAR AND NONLINEAR STRUCTURES AND INTERNAL DAMPING BY HARMONIC EXCITATION N64-13557 04-33

VIBRATION TESTING OF STRUCTURES BY TRANSIENT EXCITATION IN CONNECTION WITH FLIGHT FLUTTER ANALYSIS N64-13558 05-33

AIRCRAFT ENGINE FLUTTER FAILURE DUE TO INSTABILITY OF CONTROL SURFACE MASS DISTRIBUTIONS N64-13559 05-33

AIRCRAFT SUSPENSION - METHODS & PROBLEMS OF INVESTIGATING AIRCRAFT PERFORMANCE N64-13560 05-23

ELASTIC AND DAMPING PROPERTIES OF LIGHT AIRCRAFT & COMPRESSOR BLADES N64-13561 05-03

AIRCRAFT POWER CONTROL SYSTEMS ANALYSIS N64-13562 05-03

STRUCTURAL DYNAMICS OF NONLINEAR FLUTTER AND VIBRATIONAL PROBLEMS N64-13563 05-33

THERMOELASTICITY - EQUATIONS, THERMAL STRESS, VARIATIONAL PRINCIPLE, THERMAL BUCKLING, AND STIFFNESS & VIBRATION N64-13564 05-23

WIND-TUNNEL THEORY, AND THEORETICAL AEROELASTICITY N64-14262 06-10

STRENGTH AND AEROELASTICITY OF MATERIALS
WGLR-10/1963 N64-21696 15-02

STATIC AND DYNAMIC AEROELASTIC INSTABILITIES OF THIN PANELS AND MEMBRANES - MEMBRANE FLUTTER AND PANEL DIVERGENCE
AGARD-474 N64-21845 15-33

MANUAL ON AEROELASTICITY - PREDICTION OF AEROELASTIC PHENOMENA N64-23900 16-33

AEROELASTICITY OF HIGH SPEED AIRCRAFT
ARC-CP-668 N64-28852 20-33

AEROELASTIC AND DYNAMIC MODELING
RTD-TDR-63-4197, PT. I N64-29251 21-33

AEROELASTIC MODELING TECHNIQUES FOR DETERMINATION OF STRUCTURAL LOADING & STABILITY AND CONTROL CHARACTERISTICS N64-29255 21-33

WIND TUNNEL TESTING TECHNIQUE FOR SIMULATION OF AEROELASTIC EFFECTS ON STRUCTURAL LOADS - STABILITY AND CONTROL RESPONSE OF FULL SCALE VEHICLES
FDL-TDR-64-49, PT. 1 N64-33909 24-10

AEROLOGY
CF METEOROLOGY
DETERMINATION OF ATMOSPHERIC REFRACTIVE INDEX FOR ULTRAHIGH FREQUENCY RADIO WAVES USING AEROLOGICAL PROBES
JPRS-22198 N64-11418 02-12

ELECTRIC EQUIPMENT FOR HELICOPTERS TO MEASURE AEROLOGIC CONDITIONS
FTD-TT-63-632/1&2 N64-16381 08-15

AEROLOGICAL EXPLANATION OF AIR FLOW IN TROPICS BETWEEN NORTHERN AND SOUTHERN HEMISPHERES
E-T-R-63-12 N64-16486 08-21

AEROLOGICAL OBSERVATORY PROCEEDINGS - METHODS AND INSTRUMENTATION FOR ATMOSPHERIC COMPOSITION

STUDIES WITH EMPHASIS ON MASS SPECTROMETRY
NASA-TT-F-141 N64-26961 19-15

AEROLOGICAL AND METEOROLOGICAL OBSERVATIONS - RADIOSONDE ATMOSPHERIC NETWORK N64-32330 23-21

AEROLOGICAL FORECASTING USING ELECTRONIC COMPUTERS N64-32332 23-21

DENSITY, PRESSURE, AND COMPOSITION OF RAREFIED GAS LAYERS OF ATMOSPHERE FROM ROCKET OR SATELLITE RECORDINGS N64-32334 23-12

AEROLOGICAL DATA FOR NUMERICAL ANALYSIS AND WEATHER FORECASTING N64-32335 23-21

ROCKET MEASUREMENTS OF AEROLOGICAL CONDITIONS IN STRATOSPHERE AND MESOSPHERE
AD-444803 N64-33301 24-21

RELIABILITY OF RADIOSONDE AEROLOGICAL OBSERVATIONS USING METHOD OF TWIN SONDES N64-33480 24-12

AERONAGNETISM
GEOPHYSICS IN GEOLOGICAL MAPPING - AERONAGNETISM, RADIOMETRY, AND SURFACE CHECKING OF AERIAL SURVEY
JPRS-23073 N64-14610 06-12

GEOPHYSICS IN GEOLOGICAL MAPPING - AERONAGNETISM, ELECTROMAGNETIC FIELDS, AND RADIOMETRY N64-14611 06-12

AERONAGNETIC ANOMALIES OF POROSOZERO SUITE IN KARELO-FINNISH SSR & IN USSR - GEOPHYSICS N64-14612 06-12

AERONAGNETIC SURVEY FOR SOLUTION OF GEOLOGICAL EXPLORATION PROBLEMS
JPRS-23152 N64-14879 06-12

AERONAUTICS
CF AVIATION
BIBLIOGRAPHY - AERONAUTICS & SPACE SCIENCES FOR SECONDARY GRADES
NASA-EP-2 N64-10604 01-29

STATUS OF ELECTRONIC, AERONAUTICAL, & PHYSICAL RESEARCH N64-11364 02-01

COMBUSTION & PROPULSION ENGINES AND POWER-MASS RATIOS IN AERONAUTICS N64-11879 03-27

STRUCTURES AND MATERIAL FATIGUE, STRUCTURAL DYNAMICS, & HIGH STRENGTH MATERIALS - AERONAUTICS N64-11880 03-34

AVIONICS AND ELECTRONICS IN AERONAUTICS N64-11881 03-12

AEROSPACE MEDICINE IN AERONAUTICS RESEARCH N64-11882 03-16

FLIGHT MECHANICS & AERONAUTICS N64-11883 03-03

AIRCRAFT TESTING PRINCIPLES AND METHODS APPLIED TO MANNED SPACE FLIGHT N64-11885 03-04

AERONAUTICS RESEARCH - MANAGEMENT PLANNING, FACILITY DESIGN, AND WIND TUNNEL DESIGN N64-16020 07-01

AERONAUTICS RESEARCH - MANAGEMENT, FACILITY DESIGN AND CONSTRUCTION, & WIND TUNNEL DESIGN N64-16021 07-01

DIRECTION OF EFFORT, RESEARCH FUNCTIONS, AND TEST INSTALLATIONS OF GERMAN RESEARCH INSTITUTE FOR AERONAUTICS AND SPACE TRAVEL N64-17545 09-10

PROBLEMS IN SOVIET AERONAUTICS
FTD-TT-63-302/1&3&4 N64-21930 15-30

AERONAUTICAL ENGINEERING AND HYDROFOIL DEVELOPMENT
AGARD-473 N64-22059 15-34

AERONAUTICAL ENGINEERING - CALCULATING HEAT RADIATION IN NONSTEADY FLIGHT AND IN BENDING CANTILEVER PLATES
FTD-TT-62-1769 N64-23491 16-01

AERONAUTICAL ENGINEERING
FTD-TT-63-813/1&2 N64-23691 16-34

BIBLIOGRAPHY ON AERONAUTICAL WEIGHT ESTIMATION AND CONTROL N64-28303 20-34

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AERONOMY
ATMOSPHERIC SCIENCES - RELATION OF METEOROLOGY, HYDROLOGY & OCEANOGRAPHY, HIGH ATMOSPHERE & ATMOSPHERIC CHEMISTRY STUDY, & WEATHER PREDICTION
NAS-NRC-PUBL.-1085 N64-12109 03-21

ATMOSPHERIC SCIENCES & IMPLICATIONS OF OUTER SPACE DEVELOPMENTS - WORLD METEOROLOGICAL ORGANIZATION PLANNING N64-13379 04-21

AERONOMY - BEHAVIOR OF POSITIVE IONS AND STRUCTURE OF IONOSPHERE
AFCRL-63-913 N64-14698 06-12

IONOSPHERIC RESEARCH - PHYSICS, DYNAMICS, & AERONOMIC PROPERTIES OF EARTH & PLANETARY ATMOSPHERE
AFCRL-63-931 N64-14972 06-12

LABORATORY RESEARCH IN LOW PRESSURE MEASUREMENT & AERONOMY RESEARCH IN UPPER ATMOSPHERE
NASA-CR-53198 N64-17582 09-15

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NASA-CR-53559 N64-18306 10-[illegible]

CHEMICAL AERONOMY OF UPPER ATMOSPHERE N64-24474 1[illegible]

IONOSPHERIC PHYSICS, RADIO PROPAGATION, AERONOMY, RADIO ASTRONOMY, AND SPACE RESEARCH N64-30765 22-12

AEROSOL
CF ATOMIZATION
AEROSOL PENETRATION THROUGH 9-MIL FILTER PAPER WITH AND WITHOUT PINHOLES
HASL-139 N64-10312 01-11

PROCEDURES AND EQUIPMENT USED TO EXPOSE SMALL ANIMALS TO AEROSOLS OF FISSION PRODUCTS
LF-11 N64-11206 02-16

PARTICLE SIZE DISTRIBUTIONS ON CASCADE IMPACTOR USED TO SAMPLE AEROSOLS
LF-12 N64-12939 04-15

RADIOACTIVE ISOTOPES IN ATMOSPHERE, PRECIPITATION SCAVENGING OF RADIOACTIVE AEROSOLS, & TURBULENT DIFFUSION OF AEROSOL - NUCLEAR METEOROLOGY
AEC-TR-6128 N64-14870 06-21

COMPARATIVE EVALUATION OF BACTERIA COLLECTOR EFFECTIVENESS USING FLOW ULTRAMICROSCOPE TO DETERMINE BACTERIAL AEROSOL CONCENTRATION
JPRS-23283 N64-15293 07-14

INTERACTION OF RADIOACTIVE NUCLIDES WITH AEROSOLS
UR-636 N64-15403 07-23

ATMOSPHERIC AEROSOL PARTICLE SIZE DISTRIBUTION AND INFLUENCE ON LIGHT SCATTERING PROPERTIES OF ATMOSPHERE N64-15459 07-23

ELECTROSTATIC PRECIPITATOR FOR AEROSOLS - INDUSTRIAL SAFETY
FTD-TT-63-639/1 N64-16382 08-23

AEROSOLS HANDBOOK - ADSORPTION WAVE, METEOROLOGY, PROPERTIES OF AEROSOLS, PARTICLE SIZE & DISTRIBUTION, FILTRATION, AND AEROSOL CLOUDS
STR-10-1/EXCERPTS/ N64-17528 09-07

ELECTRICAL COAGULATION OF SPHERICAL AEROSOL PARTICLES
FTD-MT-63-70/1&2 N64-18676 11-23

DETECTION TECHNIQUES AND ATMOSPHERIC DISPERSION OF TOXIC GASES AND AEROSOLS
SB-63-39 N64-20531 13-21

BREAKING WAVES, AEROSOLS, AND OZONES IN EARTH AND OTHER PLANETARY ATMOSPHERES
NASA-CR-56134 N64-20724 13-29

DETECTION OF MICROORGANISMS IN UPPER ATMOSPHERE - ELECTROSTATIC PREPITATOR MODIFICATION, GENERATION OF TEST AEROSOLS, AND DESIGN OF FLIGHT SAMPLER
NASA-CR-50261 N64-22763 16-15

TRANSPORT RATE OF RADIOACTIVE AEROSOLS IN TROPOSPHERE DUE TO NUCLEAR EXPLOSIONS IN NORTHERN HEMISPHERE N64-24800 17-21

PRESSURE EFFECTS ON OPERATION CHARACTERISTICS OF AEROSOL SPECTROMETER
USAELRDL-TR-2456 N64-25227 17-15

HYGIENIC CHARACTERISTICS OF INDUSTRIAL RHENIUM AEROSOL
JPRS-26069 N64-27671 19-16

INFLUENCE OF AEROSOL COMPONENT ON TOTAL ATMOSPHERIC LIGHT SCATTERING
USAELRDL-TR-2411 N64-28278 20-12

SCATTERING OF INFRARED RADIATION BY AEROSOL CLOUD OF FINE PARTICLES
ARL-64-109 N64-28557 20-23

AEROSOL-FREE VAPOR GENERATION FROM LOW VAPOR PRESSURE LIQUIDS IN LARGE AIR FLOWS
TN-119 N64-30817 22-10

VERTICAL DISTRIBUTION OF AEROSOL COMPONENT IN FREE ATMOSPHERE LIGHT SCATTERING
NASA-TT-F-8946 N64-30839 22-12

SOLID HOMOGENEOUS AEROSOL PRODUCTION BY ELECTRICAL ATOMIZATION
UR-652 N64-33069 24-11

AIRCRAFT-BORNE SAMPLING DEVICE FOR COLLECTION AND FRACTIONATION OF TROPOSPHERIC AEROSOL PARTICLES
J-1038 N64-33668 24-15

AEROSOL SIZE DISTRIBUTION IN ATMOSPHERE
AD-445873 N64-33766 24-21

AEROSPACE MEDICINE
SA BIOSIMULATION
EFFECT OF VIBRATION, ACCELERATION, WEIGHTLESSNESS & BIOLOGICAL RHYTHMS ON MAN IN SPACE
JPRS-18627 N64-10503 01-16

ABSTRACTS OF CURRENT MEDICAL RESEARCH N64-10621 01-16

HISTORY OF AVIATION MEDICINE
JPRS-19125 N64-11219 02-16

AVIATION AND SPACE MEDICINE CONFERENCE - REPORT ON PAPERS, FILMS, AND DEMONSTRATIONS N64-11854 03-01

AEROSPACE MEDICINE IN AERONAUTICS RESEARCH N64-11882 03-16

FLIGHT MEDICINE - VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN, HYPOXIA & METABOLISM, FAT EMBOLISM DURING DECOMPRESSION
DVL-273 N64-12751 04-16

ABSTRACTS OF CURRENT LITERATURE IN AEROSPACE MEDICINE N64-12899 04-16

AEROSPACE MEDICINE - ESCAPE FROM HIGH SPEED AIRCRAFT AND SURVIVAL UNDER ENVIRONMENTAL STRESS
AGARDOGRAPH-52 N64-13493 04-16

NASA SPACE MEDICINE PROGRAM, BIOMEDICAL RESEARCH, AND LIFE SCIENCES RESEARCH
NASA-TM-X-51344 N64-14866 06-16

OXYGEN DEFICIENCY INFLUENCE ON HUMAN PERFORMANCE AND METABOLIC FUNCTIONS - AVIATION MEDICINE
DVL-205 N64-15034 07-16

PSYCHOLOGY OF WATER IMMERSION TECHNIQUE FOR SIMULATING WEIGHTLESSNESS - AVIATION MEDICINE
NADC-MA-6328 N64-15755 07-14

EFFECTS ON DECOMPRESSION SICKNESS OF BREATHING OXYGEN OR OXYGEN-NITROGEN MIXTURES PRIOR TO RAPID DECOMPRESSION AND PROLONGED LOW PRESSURE
N64-15856 07-16

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AMRL-TDR-64-6 N64-19816 12-10

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AGARD-411, AMEND. N64-19922 12-14

AEROSPACE MEDICINE AND BIOLOGY - BIBLIOGRAPHY
N64-20020 13-16

MATHEMATICAL METHODS APPLIED TO SPACE MEDICINE
N64-23771 16-16

THEORY OF RANDOM FUNCTIONS APPLIED TO SPACE BIOLOGY AND MEDICINE N64-23772 16-16

AEROSPACE MEDICINE - WEIGHTLESSNESS AND ARTIFICIAL GRAVITY EFFECTS ON PLANTS, ANIMALS, AND HUMAN PERFORMANCE
FTD-TT-64-140/1&4 N64-24012 16-16

ANNOTATED BIBLIOGRAPHY ON AEROSPACE MEDICINE AND BIOLOGY
NASA-SP-7011 N64-25948 18-16

ANNOTATED BIBLIOGRAPHY ON AEROSPACE MEDICINE
N64-26357 18-16

AEROSPACE MEDICINE AND ANIMAL SYSTEMS IN BIONICS
JPRS-25765 N64-27059 19-16

MEDICAL ASPECTS OF SPACE FLIGHT
EP-17 N64-27071 19-16

RADIOELECTRONIC EQUIPMENT USED FOR MEDICAL AND BIOLOGICAL INVESTIGATIONS DURING SPACE FLIGHT
JPRS-26081 N64-28062 20-16

MEDICINE IN UKRAINIAN S.S.R., ACCELERATION AND AEROSPACE MEDICINE, AND CHEMOTHERAPY
JPRS-26116 N64-28432 20-16

SPACE BIOLOGY AND MEDICINE - PROBLEMS ENCOUNTERED IN SPACEFLIGHT
JPRS-26231 N64-28859 20-16

AEROSPACE MEDICAL RESEARCH APPLIED TO OTHER MEDICAL FIELDS - PHYSIOLOGICAL RESPONSE TO RADIATION, WEIGHTLESSNESS, ACCELERATION, AND BIOINSTRUMENTATION
NASA-RP-306 N64-29339 21-16

HUMAN FACTORS IN LIGHT PLANE ACCIDENTS
CARI-63-35 N64-29850 21-14

APPLICATION OF ELECTRONIC EQUIPMENT TO AEROSPACE MEDICINE AND BIOLOGY - RADIOTELEMETRY
JPRS-24682 N64-30234 22-16

APPLICATION OF RADIOTELEMETRY TO AEROSPACE MEDICINE N64-30235 22-16

LECTURES IN AEROSPACE MEDICINE - LIFE SUPPORT SYSTEMS, HUMAN PERFORMANCE, AND LANDING SIMULATION FOR MANNED LUNAR LANDING, ORBITING LABORATORY, AND MARS MISSIONS
AD-445253 N64-30712 22-16

MEDICINE, AEROSPACE, AND MANNED SPACE FLIGHT
N64-30713 22-16

SPACE MEDICINE AND MANNED SPACEFLIGHT
N64-30714 22-16

NAVAL MEDICAL SUPPORT OF SPACE PROGRAM
N64-30715 22-16

AIR FORCE MEDICAL SUPPORT OF SPACE PROGRAM
N64-30716 22-16

AEROSPACE MEDICINE AND ASTRONAUT EVALUATION
N64-30722 22-14

XB-70 AIRCRAFT AEROMEDICAL ASPECTS
N64-30728 22-04

SPACE SCIENCE AND SPACE MEDICINE
N64-30732 22-29

SPACE SCIENCE, SPACE PROGRAMS, AND SPACE MEDICINE
N64-30733 22-01

PROBLEMS IN AEROSPACE MEDICINE - WEIGHTLESSNESS, RADIATION, METEORITE IMPACT, ARTIFICIAL ATMOSPHERE, DARKNESS, SILENCE, AND LOW TEMPERATURE
FTD-TT-64-203/1 N64-31073 22-16

ANNOTATED BIBLIOGRAPHY ON AEROSPACE MEDICINE AND BIOLOGY
NASA-SP-7011/02/ N64-32407 23-16

ANNOTATED BIBLIOGRAPHY OF AEROSPACE MEDICINE AND BIOLOGY
NASA-SP-7011/03/ N64-32741 24-16

CENTRIFUGE HISTORY IN AEROSPACE MEDICINE
N64-33482 24-10

AEROSPACE SYSTEM
SIMULATION MODELS FOR AEROSPACE COMMAND AND CONTROL
ESD-TDR-63-659, VOL. II N64-33969 24-10

AEROSPACE TECHNOLOGY
INTERNATIONAL RESEARCH PROJECT PANEL FOR AEROSPACE TECHNOLOGY N64-10300 01-01

EFFECTS OF AEROSPACE INDUSTRY MANPOWER AND PRODUCTION DEMANDS ON CIVIL INDUSTRY AND THE COMMUNITY N64-11519 03-01

RESEARCH ON AEROSPACE MATERIALS PROCESSING
FPR-010 N64-12343 03-18

IDENTIFICATION OF INDUSTRY-GOVERNMENT PROBLEMS IN AEROSPACE FIELD - SUGGESTED REMEDIAL ACTION
N64-16114 08-10

CONTRACT NUMBER INDEX OF SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS - INFORMATION RETRIEVAL
NASA-SP-7001 N64-17262 09-01

BIBLIOGRAPHY OF CORROSION AND MOISTURE PROBLEMS IN AEROSPACE INDUSTRY
SID-64-11 N64-17276 09-18

LIQUID HYDRAZINE-OXYGEN FUEL CELL FOR AEROSPACE APPLICATION N64-17409 09-06

PLASMA ARC SPRAY PROCESS AS MATERIAL DEPOSITION METHOD FOR AEROSPACE INDUSTRY
FZM-4044 N64-20072 13-17

AEROSPACE TECHNOLOGY AND SPACECRAFT PROGRAMS - BIBLIOGRAPHY
CSR-169/9990/FBR-1 N64-20569 13-01

AEROSPACE TECHNOLOGY AND SCIENCE
N64-21548 15-01

MOISTURE PERMEABILITY OF FOUR PAINT SYSTEMS - AEROSPACE STRUCTURAL TECHNOLOGY
A756 N64-22598 15-17

MOTIVATION OF TECHNICAL PERSONNEL ON AEROSPACE PROJECTS
AIAA PAPER-64-407 N64-23327 16-01

TECHNOLOGY OF LIGHTWEIGHT AEROSPACE STRUCTURES
AIAA PAPER-64-531 N64-23614 16-02

CONFERENCE - AEROSPACE EXPANDABLE STRUCTURES
AD-432006 N64-23701 16-01

METAL FABRIC EXPANDABLE STRUCTURE FOR AEROSPACE APPLICATION N64-23705 16-18

EXPANDABLE SELF-RIGIDIZING HONEYCOMB STRUCTURES
N64-23708 16-33

GELATIN - MATERIAL FOR STIFFENING AEROSPACE STRUCTURES N64-23709 16-19

EXPANDABLE FOAM-IN-PLACE SHELTERS
N64-23719 16-10

MECHANICAL PROPERTIES OF COMPOSITE MATERIALS FOR EXPANDABLE SPACE STRUCTURES N64-23723 16-19

HIGH TEMPERATURE COBALT-TUNGSTEN ALLOYS FOR AEROSPACE APPLICATIONS
SAE PAPER-843D N64-24005 16-10

COMMERCIAL APPLICATION OF MISSILE/SPACE TECHNOLOGY
NASA-CR-56719 N64-24335 17-01

SYSTEMS ENGINEERING AND AEROSPACE TECHNOLOGY
N64-24851 17-01

FUEL CELLS FOR AEROSPACE APPLICATION
NASA-RP-222 N64-24964 17-06

BEARING & LUBRICANT REQUIREMENTS FOR AEROSPACE INDUSTRY & TECHNOLOGY
R64SD38 N64-25356 17-17

BIBLIOGRAPHIES ON AEROSPACE SCIENCE
NASA-SP-7006 N64-26753 18-01

SUBJECT INDEX GUIDE FOR AEROSPACE REPORTS
NASA-SP-7016 N64-26955 18-01

MACHINING AND AEROSPACE TECHNOLOGICAL APPLICATION OF REFRACTORY ELEMENTS N64-27599 19-10

NONFERROUS ALLOYS FOR AEROSPACE STRUCTURAL APPLICATION
ASD-TDR-63-741, VOL. II, SUPPL N64-30058 21-10

APPLICATION OF X-20 AIRCRAFT TO FUTURE SPACE SYSTEMS
D2-81035 N64-31279 22-30

BOOSTERLESS RESOLVERS USED IN COMPUTING CHAINS - AEROSPACE APPLICATIONS N64-31487 23-17

AERODYNAMIC ABLATION OF METAL SPHERE AT HYPERSONIC SPEEDS
NRL-5953 N64-31689 23-13

PROGRAMS OF THE UNITED STATES AIR FORCE OFFICE OF AEROSPACE RESEARCH
AD-601009 N64-32267 23-01

AEROSPACE RESEARCH - NUCLEAR PHYSICS, AND PHYSICAL, MATHEMATICAL, ENGINEERING, ENVIRONMENTAL, AND LIFE SCIENCES
OAR-64-6 N64-32592 23-10

CONFERENCE ON AEROSPACE TECHNOLOGY - MATERIALS, FABRICATION PROCESSES, ELECTRIC POWER GENERATION, INSTRUMENTATION, LUBRICATION, SUPERCONDUCTIVITY, AND PLASMA PHYSICS
NASA-SP-5015 N64-32767 24-01

ANNOTATED BIBLIOGRAPHY ON AEROSPACE SCIENCE AND TECHNOLOGY
NASA-CR-58761 N64-32991 24-29

EXPANDABLE STRUCTURES FOR AEROSPACE APPLICATIONS
SM-42809 N64-33640 24-34

AEROSPACE VEHICLE
THROTTLE CHARACTERISTICS OF AEROSPACE POWERPLANT - ATTAINMENT OF EXTREMUM BY INTRINSIC PARAMETERS OF MOTION - VARIATIONAL CALCULUS N64-11429 02-04

QUARTZ LAMP RADIANT HEAT BRAZING OF LARGE REFRACTORY METAL SANDWICH PANEL STRUCTURES FOR AEROSPACE VEHICLES
IR-7-937A/II/ N64-16042 07-17

PARAMETRIC STUDY OF STRUCTURAL FACTOR OF SAFETY FOR AEROSPACE VEHICLES N64-19360 12-34

HYPERVELOCITY IMPACT STUDIES - METEOROID HAZARD TO

AEROSPACE MATERIALS AND STRUCTURES
N64-19363 12-23

ROCKET PLANES FOR LONG DISTANCE EARTH TRANSPORTATION
FTD-TT-63-1134/1 N64-19760 12-04

MATERIALS FOR AEROSPACE VEHICLES - PRIMARY AND SECONDARY STRUCTURE, ENVIRONMENTAL PROTECTION, ENERGY, ELECTRONICS, & SEALING SYSTEMS
ASD-TDR-63-688 N64-19972 12-19

DIRECTIONAL WIND COMPONENT PROFILES FOR USE IN AEROSPACE VEHICLE STRUCTURE AND CONTROL DESIGN
NASA-TM-X-53021 N64-20592 13-21

FEEDBACK CONTROL SYSTEM FOR AEROSPACE VEHICLES - OPTIMAL CONTROL PROBLEM FORMULATION
RES. REPT.-63-RC-1 N64-21069 14-09

AEROSPACE VEHICLE DETECTION
AD-433859 N64-23008 16-15

FIELD SPECTROGRAPH FOR HIGH RESOLUTION SPECTRAL ANALYSIS OF ROCKET EXHAUST PLUMES FOR AEROSPACE VEHICLE DETECTION N64-23009 16-15

SODIUM VAPOR AND SCANNING FABRY-PEROT SPECTROMETER FOR AEROSPACE VEHICLE DETECTION
N64-23010 16-15

INTERFEROMETRY FOR AEROSPACE VEHICLE DETECTION AND SATELLITE RECOGNITION N64-23011 16-15

DETECTION OF RADIATION FROM OXYGEN RECOMBINATION INDUCED BY SATELLITE PASSAGE FOR AEROSPACE VEHICLE DETECTION N64-23012 16-28

1963 STATUS OF TROPOSPHERIC WIND PROFILES FOR AEROSPACE VEHICLE DESIGN
AD-600300 N64-23361 16-12

ADVANCED ANTENNA TECHNIQUES FOR AEROSPACE VEHICLE DOPPLER VELOCITY SENSORS
AL-TDR-64-163 N64-26219 18-08

PROPERTIES OF MATERIALS - DATA OBTAINED DURING AEROSPACE VEHICLE RESEARCH
ASRCE-TM-63-15 N64-26814 18-17

WASTE DISPOSAL SYSTEM FOR AEROSPACE VEHICLE
U413-64-056 N64-26883 18-16

DYNAMIC MODEL TESTING VERSUS COMPUTER SIMULATION FOR ANALYSIS OF PROBLEMS FOR AEROSPACE VEHICLES
N64-29261 21-33

SELF-ALIGNING AIRFRAME BEARINGS FOR AEROSPACE VEHICLES
GRP-2 N64-30161 21-17

SELF-SEALANTS AND SPACE-APPLIED ASSEMBLY SEALANTS FOR AEROSPACE VEHICLES
P-63-11 N64-31232 22-17

LIGHTWEIGHT METAL FOIL HEAT EXCHANGERS FOR HYDROGEN PRECOOLING IN AEROSPACE VEHICLES
ITR-5 N64-31268 22-13

TRANSMISSION LINKS FOR AEROSPACE VEHICLES - SOLID STATE ELECTRICAL POWER CONTROL AND DISTRIBUTION SYSTEMS
ASD-TDR-63-805 N64-32086 23-06

SELF-ALIGNING BEARING MOUNTINGS FOR AEROSPACE VEHICLE
GRA-1 N64-32360 23-17

WIND PROFILE DESIGN CRITERIA FOR AEROSPACE LAUNCH VEHICLES
AD-448623 N64-32545 23-21

LUBRICATION OF BEARINGS IN AEROSPACE EQUIPMENT
N64-32771 24-17

TERRESTRIAL, LONG DISTANCE, HYPERSONIC, REUSABLE AEROSPACE TRANSPORTER N64-32878 24-30

AEROTHERMOCHEMISTRY
THERMOCONDUCTIVITY & AEROTHERMOCHEMISTRY OF PYROLYTIC GRAPHITE
R63SD84 N64-15760 07-19

BASIC FLOW PHENOMENA ASSOCIATED WITH AEROTHERMAL KILL MECHANISM
AD-438860 N64-25698 17-11

ABLATION AEROTHERMOCHEMISTRY AND PROPERTIES OF ABLATING MATERIALS N64-28189 20-13

AEROZINE
EFFECTS OF ARGININE, L-GLUTAMATE AND PYRIDOXINE ON TOXICITY OF AEROZINE
SAM-TDR-64-49 N64-31052 22-16

AFTERBODY
AFTERBODY GEOMETRY AND STING DIAMETER EFFECT ON AERODYNAMICS OF SLENDER BODIES AT SUPERSONIC SPEED
NASA-TN-D-2042 N64-10335 01-02

AFTERBODY GEOMETRY AND STING DIAMETER EFFECT ON AERODYNAMICS OF SLENDER BODIES AT SUPERSONIC SPEED
NASA-TN-D-2042 N64-10335 01-02

INDUCED PRESSURES AND SHOCK SHAPES ON BLUNT CONES IN HYPERSONIC FLOW - EXTENSION OF BLAST-WAVE PARAMETERS
NASA-TN-D-2182 N64-17158 09-02

INDUCED PRESSURES AND SHOCK SHAPES ON BLUNT CONES IN HYPERSONIC FLOW - EXTENSION OF BLAST-WAVE PARAMETERS
NASA-TN-D-2182 N64-17158 09-02

CONICAL AFTERBODY EFFECT ON REARWARD STATIC STABILITY OF BLUNT NOSED ENTRY VEHICLE AT SUPERSONIC SPEED
NASA-CR-58614 N64-28834 20-02

AFTERBURNER
CF GAS TURBINE
CF HEAT ENGINE
SYNTHESIZING BLOCK DIAGRAM FOR SELF-ADJUSTING CONTROL SYSTEMS FOR TURBOJET ENGINES WITH AFTERBURNERS
FTD-TT-62-1655/1&2&4 N64-23287 16-06

TURBOJET ENGINE AND TURBOJET WITH AFTERBURNER AS UNIT IN AUTOMATIC AIRCRAFT CONTROL SYSTEMS
N64-23595 16-06

AFTERGLOW
ABSORPTION SPECTRUM OF PINK AFTERGLOW OF NITROGEN IN VACUUM ULTRAVIOLET N64-18166 10-24

DECAY OF DENSITIES OF ION SPECIES IN AFTERGLOWS FOLLOWING PULSED RADIO FREQUENCY DISCHARGES IN ATMOSPHERIC GASES
AFCRL-64-107 N64-18182 10-24

MASS SPECTROMETRY OF IONIZATION PROCESSES IN NITROGEN - AURORAL AFTERGLOW PROCESS
AFCRL-64-259 N64-21416 14-12

COLOR PHENOMENA IN AFTERGLOWS AND ATOMIC FLAMES FROM ELECTRIC DISCHARGES N64-24146 16-23

PROBABILITY OF COLLISION FOR MOMENTUM TRANSFER OF SLOW ELECTRONS IN NITROGEN PLASMA AFTERGLOW
NASA-CR-104 N64-31202 22-24

AGE FACTOR
CF AGING
AGE DETERMINATION OF EARTH MINERALS, CHEMICAL ELEMENTS, & METEORITES BY RADIOACTIVE METHODS - ESTIMATE OF AGE OF EARTH N64-19328 12-12

AGE FACTOR IN FLEXURE STRENGTH OF LAMINATED EPOXY AND POLYESTER MATERIALS
NOLTR-64-1 N64-23979 16-19

AGE HARDENING
CHANGES IN FINE CRYSTAL STRUCTURES DURING AGE HARDENING OF NICKEL AND IRON-NICKEL ALLOYS
N64-17046 09-18

ENGINEERING PROPERTIES OF AGE HARDENING NICKEL-

CHROMIUM ALLOY - INCONEL N64-17258 09-18

AGENA ROCKET
GEMINI-AGENA DOCKING USING FIXED AND MOVING-BASE SIMULATORS
AIAA PAPER-64-334 N64-21352 14-32

SIMULATION OF ORBITAL MOORING OF GEMINI SPACECRAFT AND AGENA ROCKET WITH DYNAMIC MODELS N64-29263 21-33

VARIATIONS OF NEUTRON FLUX LEVEL AND GAMMA RADIATION DOSE BETWEEN AXIS AND SKIN OF AGENA D WITH SNAP-10 A AND SNAP-2 POWER SYSTEMS
QRR-3 N64-30539 22-06

INTEGRATED TEST PLAN FOR GEMINI AGENA TARGET VEHICLE
LMSC-A306106-B N64-30806 22-10

KINETHEODOLITE OBSERVATIONS OF EXPLORER XVI, AGENA, AND MIDAS V, VI, VII SATELLITES - DECEMBER 1963 N64-33253 24-08

GEMINI AND AGENA TELEMETRY FORMATS AND NETWORK STATION SYSTEMS FOR MANNED SPACE FLIGHT NETWORK
NASA TM-X-55099 N64-33567 24-08

AGGREGATE
TESTING CLAY FROM CONNECTICUT FOR LIGHTWEIGHT AGGREGATE USE
BM-IC-8228 N64-28069 20-19

AGING
SA AGE FACTOR
CF CURING
CF STORAGE
GROUP FREQUENCY STANDARD QUARTZ CLOCK VARIATION AND PERTURBATION - RELATION OF EARTH ROTATIONAL IRREGULARITY AND CLOCK AGING
FTD-TT-63-542/1&2 N64-12342 03-12

WORK CAPACITY AS RELATED TO PHYSIOLOGICAL AND CHRONOLOGICAL AGING
CARI-63-18 N64-16728 08-14

AGING OF INSTALLED RUBBER & PLASTIC GASKETS IN SIMULATED FLIGHT HARDWARE
NASA-TM-X-54517 N64-17607 09-19

ASYMPTOTIC PROPERTIES OF AGE-DEPENDENT BRANCHING PROCESSES ASSOCIATED WITH CELL POPULATIONS - MITOSIS
TECH. REPT.-94 N64-18466 10-20

AGING AND HOMOGENIZING HEAT EFFECT ON MECHANICAL PROPERTIES OF 17-4PH STEEL
FTDM-3226 N64-20068 13-18

ANALYSIS OF ACCELERATED AGING TESTS FOR ELECTRONIC COMPONENT RELIABILITY N64-20969 14-09

AGING MECHANISMS IN METAL FILM RESISTORS N64-20987 14-25

THERMODYNAMICS OF FAILURE AND AGING N64-20989 14-13

AGING OF ELASTOMER COMPOUNDS
AD-432369 N64-21067 14-19

BIOLOGY OF AGING USING IONIZING RADIATION STUDIES
BNL-854/T-340/ N64-21591 15-16

EFFECT OF CHEMICAL COMPOSITION ON ARTIFICIAL AGE HARDENING & STRESS CORROSION CRACKING OF HIGH STRENGTH ALUMINUM-ZINC-MAGNESIUM-COPPER ALLOYS
RSIC-177 N64-21912 15-18

AGING EFFECTS ON QUARTZ CRYSTAL RESONATORS
QR-3 N64-22204 15-25

AGING OF POLYURETHANE PROPELLANT BINDER
BSD-TDR-64-52 N64-22270 15-26

AGE-HARDENING CHARACTERISTICS OF NICKEL-BASE HEAT RESISTANT ALLOYS
JPRS-25004 N64-22733 16-18

AGING AND FREEZING EFFECTS ON PLASTICITY OF CERAMIC PRODUCTS N64-23194 16-19

AGING IN ALLOYS WITH TEMPERATURE DEPENDENT SOLID SOLUTION CONCENTRATION
FTD-TT-64-124/1&2&4 N64-25464 17-18

AGING OF RACEWAY ADHESIVE
MTO-258-7 N64-26061 18-19

FIRING INSTABILITY OF AGED ROCKET PROPELLANTS AND IMPROVED STORAGE STABILITY OF POLYURETHANE BINDERS
ML-TDR-64-65 N64-27640 19-19

AGING EFFECTS ON LOW FREQUENCY QUARTZ CRYSTAL RESONATORS
QR-4 N64-27949 20-25

AGING OF GASKET MATERIALS INSTALLED AS SIMULATED LAUNCH VEHICLE HARDWARE
NASA-CR-58713 N64-29216 21-17

INCREASED QUARTZ RESONATOR RELIABILITY THROUGH REDUCTION OF FREQUENCY-AGING AND FAILURE RATE
QR-5 N64-29820 21-25

X-RAY ANALYSIS OF CRYSTAL STRUCTURE CHANGES IN COPPER ALLOYS DURING AGING N64-32848 24-18

AGRICULTURE
SURFACE-ENERGY BALANCE IN ARID-LANDS AGRICULTURE
PRODUCTION RES. REPT.-76 N64-13378 04-21

MEDICINE, BIOLOGY, & AGRICULTURE STUDIES USING RADIOACTIVE ISOTOPES AND NUCLEAR RADIATIONS
AEC-TR-6298 N64-20823 14-14

RUBIDIUM IN AGRICULTURALLY IMPORTANT MATERIALS THROUGH ATOMIC ABSORPTION - FLAME PHOTOMETRY
NIJS-R-425 N64-21698 15-14

AGRICULTURAL METEOROLOGY, METEORITES, AND USE OF SPECTROPHOTOMETRIC DATA IN COMMUNIST CHINA
JPRS-27009 N64-34006 24-04

AGRICULTURAL METEOROLOGY - WEATHER CONDITIONS AND CLIMATE CONTROL FOR IMPROVED CROP PRODUCTION N64-34009 24-21

AILERON
CF CONTROL SURFACE
VIBRATIONAL FREQUENCY OF FLEXIBLE WING WITH AILERON - TORSIONAL VIBRATION
FTD-MT-63-133 N64-18681 11-15

MEASUREMENT OF AERODYNAMIC COEFFICIENTS OF SMALL ASPECT RATIO AILERONS AT TRANSONIC SPEEDS
ONERA-TM-75 N64-25849 18-01

AIR
SA AIRGLOW
SA HIGH TEMPERATURE AIR
CF ATMOSPHERE
CF GAS
EFFECTS OF BIPOLAR IONIZED AIR ON CHANGE IN BLOOD COMPLEMENT TITER AND ON ANAPHYLACTIC SHOCK IN RABBITS
JPRS-21777 N64-10152 01-04

HOT ROLLING OF MOLYBDENUM IN VACUUM, ARGON, AND AIR
JPRS-21757 N64-10173 01-04

AIR INTAKE PROBLEMS IN VERTICAL TAKEOFF AIRCRAFT ENGINES
EWR-88-63 N64-10970 02-01

AIR RECEIVERS FOR PRESSURE VESSEL AIR STORAGE SYSTEM
NAL-TN-AE-17-63 N64-11409 02-05

APPROXIMATE CALCULATION OF HYPERSONIC CONICAL FLOW PARAMETERS FOR AIR IN THERMODYNAMIC EQUILIBRIUM
NASA-TN-D-2058 N64-12716 04-01

PRESSURE LOSSES IN SCALE MODELS OF U-BENDS & T-JUNCTIONS OF AIR RECEIVER SYSTEM OF WIND TUNNEL
TN-AE-15-63 N64-13331 04-09

OXIDE FILM ON ZIRCONIUM-NIOBIUM AND ZIRCONIUM-NIOBIUM-MOLYBDENUM ALLOYS IN AIR
N64-13729 05-18

ANALYTICAL EXAMINATION OF DYNAMIC STABILITY OF SUPERSONIC TRANSPORT AIR INLET AND THRUSTOR
LR-16261-3 N64-14808 06-27

TURBULENT AIR-BROMINE COAXIAL-FLOW DIFFUSION
NASA-TN-D-2121 N64-15161 07-11

VISCOSITY MEASUREMENTS OF DRY AND HUMID AIR - SQUID PROJECT
TR-BRN-12-P N64-16096 07-11

HEAT TRANSFER TO ZINC-AIR AND FERROUS SULFIDE-AIR SYSTEMS
NASA-CR-55518 N64-16106 07-13

CALCULATION OF TEMPERATURE DISTRIBUTION AND THERMAL STRESS IN AIR COOLED STEAM TURBINE ROTOR
FTD-MT-62-766/1&2&4 N64-16342 08-27

LABORATORY INVESTIGATIONS OF HELICOPTER AIRSPEED SYSTEMS FOR OPERATING RANGE OF VEHICLE
CAL-1H-1470-F-1 N64-16487 08-04

AIRSPEED INDICATOR FOR HELICOPTERS
CAL-1H-1470-F-3 N64-16488 08-04

AERODYNAMIC CHARACTERISTICS OF TWO PLANETARY ENTRY CONFIGURATIONS IN AIR & CARBON DIOXIDE/NITROGEN MIXTURES AT HYPERSONIC SPEED
NASA-CR-53232 N64-17575 09-02

GRAPHITE HEATER AS BASIS FOR AIR HEATING DEVICE
ARL-63-188 N64-17846 10-19

GAS EXCHANGE WITH AIR DURING BREATH-HOLDING
N64-17934 10-16

METHOD FOR COMPUTING REACTION RATES FOR HYDROGEN-AIR MIXTURES IN RAMJET ENGINE N64-18137 10-26

AIRFRAME DEFORMATION OF CH-21A HELICOPTER UNDER DYNAMIC CRASH
AVSER-63-3 N64-18465 10-04

TRANSIENT RESPONSE OF TALOS AIRFRAME WHEN SUBJECTED TO UNDERWATER EXPLOSION - MATHEMATICAL MODEL
N64-18546 11-30

EQUILIBRIUM PROPERTIES OF ARGON-FREE AIR AT HIGH TEMPERATURES
RAD-TM-64-12 N64-19069 11-24

MOLLIER DIAGRAM SHOWING THERMODYNAMIC PROPERTIES OF AIR IN CHEMICAL EQUILIBRIUM N64-19079 11-23

AUTOMATIC MONITOR FOR FLAME EMISSION DETECTION OF PENTABORANE IN AIR
RTD-TDR-63-1072 N64-19107 11-15

SPECTRAL ABSORPTION COEFFICIENT FOR HEATED AIR CALCULATIONS
REPT.-3-27-63-4 N64-19204 11-23

FORMULA FOR SOLAR RADIATION INTENSITY AND NEW CHARACTERISTIC OF TRANSPARENCY OF AIR
FTD-TT-63-178/1&2 N64-19211 11-12

LAMINAR BOUNDARY LAYER IN HYDROGEN-AIR MIXTURES WITH FINITE RATE CHEMISTRY
NASA-CR-53633 N64-19625 12-11

AEROMEDICAL HANDBOOK TO PROVIDE AIRCREWS WITH UNDERSTANDING OF BIOLOGICAL SCIENCES AFFECTING FLYING
AGARD-411, AMEND. N64-19922 12-14

AIR SWIRL & FUEL SPRAY CHARACTERISTICS FOR OPTIMUM PERFORMANCE OF STRATIFIED CHARGE ENGINE
AD-435855 N64-20098 13-27

INTAKE INDUCED AIR SWIRL OF STRATIFIED CHARGE ENGINE
TR-1 N64-20128 13-27

ISENTROPIC FLOW PROCESSES INVOLVING UNSTEADY EXPANSION WAVE IN EQUILIBRIUM REAL AIR
NASA-TR-R-167 N64-20286 13-11

NANOSECOND PULSE BREAKDOWN OF AIR, HELIUM, AND NITROGEN - STUDY OF GASEOUS BREAKDOWN PHENOMENA FOR DESIGNING HIGH RESOLUTION RADAR SYSTEM
RADC-TDR-64-38 N64-21072 14-24

SATELLITE PHOTOGRAPHS OF CLEAR AIR TURBULENCE AND CLOUD PATTERNS
AD-432468 N64-21308 14-21

SPECIFIC HEAT AND SPEED OF SOUND DATA CALCULATED FOR IMPERFECT AIR
AEDC-TDR-64-36 N64-21413 14-23

VIBRATIONAL RELAXATION AND RECOMBINATION OF NITROGEN AND AIR IN HYPERSONIC NOZZLE FLOWS
REPT.-63-RL-/3429C/ N64-21734 15-11

BIBLIOGRAPHY ON COMPRESSED AIR SYSTEMS
KAPL-M-TL-1 N64-21844 15-16

AIR DENSITY DISTRIBUTION VARIATIONS IN MESOSPHERE AND STRATOSPHERE BY SEASON AND LATITUDE
AD-433767 N64-21852 15-12

THERMAL STRESSES IN AIR COOLED DISKS OF ROTARY GAS TURBINES
FTD-TT-64-145/1&2 N64-21974 15-13

VENTILATION OF AIRCRAFT CREW FLIGHT CLOTHING - TEMPERATURE REGULATION
FTD-TT-63-774/1&2 N64-22180 15-16

MARAGING STEEL IN ELEVATED TEMPERATURE AIRFRAME DESIGN
TFD-63-552 N64-22483 15-18

THERMODYNAMICS - SPECIFIC HEAT AND SOUND SPEED DATA FOR IMPERFECT AIR AND NITROGEN
AEDC-TDR-64-114 N64-22606 15-11

METEOROLOGICAL EXPLORATION OF COLD AIR LAYERS IN IONOSPHERE N64-23889 16-12

AIR COOLED GAS TURBINES
FTD-TT-62-1023/1&2&4 N64-24249 17-11

TEMPERATURE MEASUREMENT OF ROTOR DISK OF AIR COOLED GAS TURBINE N64-24250 17-11

AIR COOLING OF HIGH TEMPERATURE GAS TURBINE FOR POWERPLANT USE N64-24251 17-11

LIMIT ANALYSIS FOR AIRCRAFT FUSELAGE FRAMES SUBJECTED TO SHEAR FLOW AND VERTICAL LOAD
ARC-CP-705 N64-24927 17-33

AIR IONIZATION IN HYPERSONIC LAMINAR WAKE OF SHARP CONES
BSD-TDR-64-81 N64-25245 17-03

DYNAMIC EQUATIONS OF AIR INTAKE & CONTROL SYSTEMS FOR TURBOJET ENGINES OPERATING IN TURBULENT ATMOSPHERES N64-25434 17-04

EQUILIBRIUM OCCUPATION NUMBERS & SPECIES CONCENTRATION FOR AIR, NITROGEN, & OXYGEN TO 24000 DEG K
REPT.-6-74-64-33 N64-25610 17-19

PRANDTL NUMBER MEASUREMENTS AND THERMOCONDUCTIVITY AND VISCOSITY PREDICTIONS FOR AIR, HELIUM, AND AIR-HELIUM MIXTURES
NASA-CR-55273 N64-25659 17-13

METEOROLOGICAL EFFECTS IN RELATION TO FREQUENCY OF EXTENSIVE AIR SHOWERS NEAR SEA LEVEL
N64-25942 18-26

HYPERSONIC HEAT TRANSFER IN AIR LAMINAR BOUNDARY LAYER N64-26156 18-13

DETERMINATION OF POSITION ERROR AT LOW ALTITUDES OF AIRSPEED AND STATIC PRESSURE MEASUREMENT SYSTEMS OF AIRCRAFT
RD-64-37 N64-26306 18-15

MAGNETIC AIR BRAKE FOR TEST OF GAS MICROTURBINES
FTD-MT-63-293 N64-26731 18-17

CHEMICAL STUDY OF HYDROGEN-AIR REACTIONS IN PROPULSIVE DEVICES
AFOSR-1378 N64-26825 18-07

MEASURING FREE STREAM AIR DENSITY BY X-RAY SCATTERING
FDL-TDR-64-29 N64-27701 19-21

TRANSPORT PROPERTIES OF NITROGEN AND AIR AT HIGH TEMPERATURES N64-28185 20-11

PREDICTED EMISSION OF VISIBLE RADIATION FROM SHOCK HEATED AIR
TN-AMSMI-RNR-63-3 N64-28416 20-23

AEROTHERMAL CAPABILITY OF PLASMA HEATERS - HIGH PRESSURE AIR GENERATION
REPT.-25116 N64-28619 20-27

COLUMNAR AIR MASS BETWEEN PAIRS OF POINTS IN ATMOSPHERE AND VOLUME PRODUCTION RATE OF ION PAIRS DUE TO GAMMA RAYS FROM DECAYING FISSION DEBRIS
RM-4142 N64-28820 20-23

AIRFRAME STRUCTURAL TESTING N64-29274 21-33

INTERPOLATIONS OF IMPERFECT AIR THERMODYNAMIC DATA AT CONSTANT PRESSURE
AEDC-TDR-64-184 N64-29443 21-13

COMPARISON OF THEORY AND EXPERIMENTAL DATA FOR ANALYSIS OF TURBULENT BOUNDARY LAYER WITH AIR OR HELIUM INJECTION
REPT.-61SD49 N64-29524 21-11

SELF-ALIGNING AIRFRAME BEARINGS FOR AEROSPACE VEHICLES
QRP-2 N64-30161 21-17

EFFECTS OF CESIUM AND SODIUM IN ABLATING SURFACE OF POINTED CONES ON AIR IONIZATION IN BOUNDARY LAYER
R64SD22 N64-30658 22-11

SOUND ATTENUATION IN ATMOSPHERES OF AIR, NITROGEN, OXYGEN, HELIUM AND 50-50 HELIUM-OXYGEN MIXTURES AT LOW PRESSURES
SAM-TDR-64-43 N64-31051 22-16

HIGH ALTITUDE AIR-SAMPLING EQUIPMENT FOR REENTRY BURNUP EXPERIMENT
RTD-TDR-63-3043 N64-31160 22-15

FALLOUT DATA - RADIONUCLIDE LEVEL IN SOILS, MILK, TAP WATER, & AIR SAMPLES - STRONTIUM 90 LEVEL IN DIETS & BONES OF CHILDREN, AND PLUTONIUM 238 CONCENTRATION IN AIR
HASL-149 N64-31624 23-12

INTERNAL AIR-FILM COOLING OF MACH 2.4 AXISYMMETRIC SUPERSONIC NOZZLE
NOLTR-64-65 N64-31672 23-13

INTERNAL HEAT EXCHANGE IN POROUS STAINLESS STEEL DURING AIR COOLING
FTD-MT-63-210 N64-32044 23-13

AIR INTAKE DIFFUSERS FOR SUPERSONIC AIRCRAFT
FTD-MT-64-301 N64-32243 23-27

FABRICATION OF MAGNESIUM ALLOY AIRFRAME SKIN
AD-442883 N64-32677 23-17

GROWTH DETERMINATION OF TURBULENT BOUNDARY LAYER ON RAMJET AIR INTAKES USING MASS ENTRAINMENT CONCEPT
REPT.-64-14 N64-32801 24-11

WIND TUNNEL TESTS ON ENTRY BODY IN AIR AND CARBON DIOXIDE MIXTURES TO DETERMINE AERODYNAMIC EFFECTS OF ATMOSPHERE
AIAA PAPER-64-481 N64-32945 24-02

EFFECT OF HIGH ENERGY PRIMARY COSMIC RADIATION ON AIR SHOWERS
AD-442210 N64-32977 24-28

ELECTRIC ASPIRATOR TO TAKE SAMPLES OF ATMOSPHERIC AIR TO DEFINE HARMFUL GASEOUS INGREDIENTS
JPRS-27169 N64-33089 24-10

HYPERSONIC WIND TUNNEL TESTS OF MODELS IN AIR-CARBON DIOXIDE MIXTURES
NASA-CR-59033 N64-33196 24-02

REDUCTION OF SKIN FRICTION WITH LOW ENERGY AIR INJECTION THROUGH DISCRETE SLOTS INTO TURBULENT BOUNDARY LAYER
NASA-TN-D-2102 N64-34018 24-11

AIR BLAST
SHOCK WAVES FROM CONDENSED EXPLOSIONS IN AIR AT VARIOUS DENSITIES AND AMBIENT PRESSURES
NOLTR-63-13 N64-12261 03-26

REDUCTION OF AIRBLAST LOAD ON ABOVEGROUND AIRCRAFT STRUCTURES N64-12416 04-33

SHOCK AND BLAST RESEARCH
SES-SP-34 N64-14798 06-26

DISSOCIATION, IONIZATION, AND INTERMOLECULAR FORCES EFFECT ON SHOCK WAVES IN IMPERFECT AIR - GAS DYNAMICS
AEDC-TDR-64-43 N64-18039 10-23

POSSIBLE TYPES OF FLOW WITH CONSTANT PRESSURE BEHIND SHOCK WAVE FRONT IN AIR SHOCK TUBES
FTD-TT-63-309/1&2&4 N64-19197 11-11

EFFECTS OF AMBIENT PRESSURE ON TOLERANCE OF NICE TO AIR BLAST
DASA-1483 N64-21078 14-16

EQUILIBRIUM CONCENTRATIONS, THERMODYNAMIC, AND NORMAL SHOCK PROPERTIES FOR PURE AND IMPURE AIR
GD/A-63-0174 N64-21167 14-24

THERMAL SHOCK WAVE INTERACTION IN EQUILIBRIUM AIR
KN-689-64-5 N64-21409 14-27

MEASUREMENT OF SHOCK DETACHMENT DISTANCE ON SPHERES FIRED IN AIR AT HYPERVELOCITIES N64-26152 18-01

PREDICTION OF AIR BLAST FOCUSING
BRL-1240 N64-26206 18-12

SHOCK TRANSITION CONDITIONS FOR NORMAL AND OBLIQUE SHOCKS IN AIR WITHIN RANGE OF OXYGEN DISSOCIATION
NASA-CR-58498 N64-28753 20-12

AIR BREATHING ENGINE
LIQUID AIR CYCLE ENGINE SYSTEM BURNING LIQUID AIR AND HOT HYDROGEN DIRECTLY IN ROCKET CHAMBER N64-11941 03-27

RELATION OF FUEL PROPERTIES TO THRUST OF AIR-BREATHING RAMJET ENGINES
TIL/T-5460 N64-16262 08-20

TESTING AIR BREATHING ENGINES
FTD-TT-63-233/1&2 N64-25386 17-25

TEST PROGRAM FOR AIR BREATHING JET ENGINES N64-25387 17-25

TEST METHODS FOR AIR BREATHING ENGINES N64-25392 17-25

COMPUTER PROGRAM FOR THRUST IN DUCT OF AIR AUGMENTED ROCKET POWER PLANT
NASA-CR-56832 N64-25570 17-25

FEASIBILITY OF IMPROVING LAUNCH VEHICLE BY USING AIR AUGMENTED ROCKET PROPULSION SYSTEM
NASA-CR-56890 N64-27277 19-11

SUPERSONIC FLOW CAPABILITY OF ALTITUDE TEST FACILITY FOR AERODYNAMIC RESEARCH AND FREE JET AIR BREATHING ENGINE TESTING
NATTS-ATL-92 N64-30184 21-11

AIR CURRENT
CLIMATOLOGICAL STUDY OF AIR CURRENT PATTERN IN

CYCLONE-ANTICYCLONE SYSTEM, AND OF MECHANISM OF COLD WAVE AND COLD WEATHER ONSET
ASIC-120 N64-15064 07-21

EFFECTS OF MOUNTAINS ON AIR CURRENTS
ASIC-131 N64-16049 07-21

INERTIA CHARACTERISTICS OF AIR CURRENT DIRECTION SENSORS
N64-20222 13-15

AERODYNAMIC INVESTIGATION OF AIR CURRENT DIRECTION SENSOR TO DETERMINE OPTIMUM INERTIA CHARACTERISTICS
N64-20223 13-02

ABLATION BEHAVIOR OF CHARRING MATERIAL IN HIGH VELOCITY STREAMS OF ARC HEATED AIR, NITROGEN, AND ARGON
NASA-RP-179 N64-21278 14-13

MEMBRANE TRANSDUCERS TO MEASURE PRESSURE PULSE IN AIR STREAM
FTD-TT-63-737/1&2&4 N64-22660 15-02

WEIGHT FLOW RATES OF AIR THROUGH CIRCULAR HOLES IN FLAT PLATE IMMERSED IN SUBSONIC OR SUPERSONIC AIRSTREAM
WOLTR-61-125 N64-22911 16-11

INFLUENCE OF AIR STREAM FLOW ON AERODYNAMIC CHARACTERISTICS OF PROFILE WITH SLOTTED FLAP FOR DIFFERENT AIR STREAM TYPES
N64-23069 16-03

DYNAMIC CHARACTERISTICS OF TEMPERATURE SENSORS FOR RETARDED AIR FLOW
N64-23590 16-11

LIQUID STREAM DISINTEGRATION IN MOVING AIR
N64-32940 24-11

AIR CUSHION VEHICLE
CF GROUND EFFECT MACHINE
ROTARY WING AIRCRAFT & AIR CUSHION EFFECT
FTD-TT-63-215/1 N64-22645 15-04

HIGH FORWARD SPEED EFFECTS ON TWO-DIMENSIONAL GROUND EFFECT SUPPORT MODEL - AIR CUSHION VEHICLE
N64-30403 22-10

AERODYNAMIC CHARACTERISTICS OF SELF-PROPELLED MODEL OF AIR CUSHION VEHICLE IN HOVERING FLIGHT - GROUND EFFECT TAKEOFF AND LANDING /GETOL/ MODEL
UTIASTN-74 N64-33650 24-02

AIR NAVIGATION
DISTANCE MEASURING ACCURACY OF TACTICAL AIR NAVIGATION /TACAN/, NONSTANDARD MEASURING, & RADAR IDENTIFICATION SET EQUIPMENT SYSTEMS
N64-10412 01-22

NATIONAL AIRSPACE SYSTEM DESIGN - AIR TRAFFIC, NAVIGATION, AIRPORT AND WEATHER CONTROL
N64-11912 03-01

FACILITIES AND SERVICES FOR INTERNATIONAL AIR NAVIGATION IN SOUTHEAST ASIA REGION - ICAO
N64-17259 09-10

CRYSTAL AND ATOMIC CLOCK FREQUENCY STANDARDS FOR AIR NAVIGATION
TR-0373 N64-20493 13-15

COMPUTER SIMULATION STUDY OF TURN PROCEDURE FOR REDUCING AIRSPACE REQUIREMENTS FOR SUPERSONIC TRANSPORTS
NASA-RP-323 N64-31006 22-22

EVALUATION OF LIFT ENGINES IN TACTICAL VTOL AIRCRAFT
N64-31877 23-04

AIRCRAFT APPROACH AND LANDING SYSTEMS FOR WORLDWIDE, ALL WEATHER, DAY AND NIGHT OPERATION FOR TACTICAL OPERATION MOBILITY
AD-442741 N64-32585 23-22

AIR POLLUTION
BIBLIOGRAPHY OF LITERATURE OF DETECTION INSTRUMENTS USED TO MONITOR TOXIC GAS CONCENTRATION IN ATMOSPHERE
SID-63-755 N64-10137 01-16

RADIOACTIVE TUNGSTEN IN ATMOSPHERE FROM THERMONUCLEAR BOMB
JPRS-17679 N64-10485 01-21

ATMOSPHERIC POLLUTION
JPRS-18455 N64-11045 02-21

ATMOSPHERIC POLLUTION - DEFINITION, PARAMETERS, & CHARACTERISTICS OF AIR AND ATMOSPHERIC POLLUTANTS AND CLASSIFICATION OF DUSTS AND MISTS
N64-11046 02-21

SOURCES OF NATURAL AND ARTIFICIAL ATMOSPHERIC POLLUTION, CLASSIFICATION & CONCENTRATION OF ATMOSPHERIC POLLUTANTS, AND POLLUTION LEGISLATION
N64-11047 02-21

ATMOSPHERIC POLLUTION DAMAGE - MATERIAL LOSSES, DIRECT & INDIRECT LOSSES, AND EFFECT OF POLLUTANTS ON HUMANS
N64-11048 02-21

UNIFORM MOTION OF PARTICLES, SHAPE COEFFICIENTS, SETTLING VELOCITY OF DUST PARTICLES, AND BROWNIAN MOTION - AIR POLLUTANTS
N64-11049 02-21

INFLUENCE OF WIND VELOCITY & OTHER METEOROLOGICAL PARAMETERS ON DISPERSION OF ATMOSPHERIC POLLUTANTS
N64-11050 02-21

DISPERSION OF ATMOSPHERIC POLLUTANTS - FORMULAS FOR EMISSION SOURCES - DUSTFALL, PRECIPITATION, & TOPOGRAPHICAL EFFECT
N64-11051 02-21

MONITOR LOCATION SAMPLING DURATION, ACCURACY, AND ANALYSIS OF RESULTS FOR MEASURING ATMOSPHERIC POLLUTION
N64-11052 02-21

ATMOSPHERIC POLLUTION PARTICLE EMISSION
N64-11053 02-21

METERS, COLLECTING PLATES AND DIRECTIONAL SAMPLERS FOR ESTIMATING DUSTFALL - PARTICLE ORIGIN AND PHYSICAL & CHEMICAL TESTING
N64-11054 02-21

MEASUREMENT OF PARTICULATE MATTER CONCENTRATION IN AIR - ATMOSPHERIC POLLUTION
N64-11055 02-21

MEASUREMENT OF PARTICULATE MATTER CONCENTRATION IN

SAMPLING METHODS FOR DETERMINATION OF GASEOUS AIR POLLUTANTS N64-11056 02-21

DISTRIBUTION OF VERTICAL AIR CURRENTS AND DETERMINATION OF PRECIPITATION ZONES OVER HOLLAND FOR STABLE & UNSTABLE ATMOSPHERIC STRATIFICATIONS
JPRS-19119 N64-11125 02-21

AIR, FALLOUT, AND SURFACE WATER RADIOACTIVITY MEASUREMENTS AT MANY POSTS IN EUROPE FOR EURATOM
EUR-461.D,F,I,N N64-12137 03-23

DISPERSION OF ATMOSPHERIC POLLUTION - CALCULATIONS
JPRS-22598 N64-13227 04-21

SURVEILLANCE OF RADIOACTIVE MATERIALS IN AIR, WATER, AND FOOD
HW-79652 N64-14924 06-16

METEOROLOGY - DIFFUSION OF AIR POLLUTION AT CAPE CANAVERAL AND VANDENBERG AIR FORCE BASE
AFCRL-63-791, VOL. I N64-15485 07-21

DIFFUSION AIR POLLUTION FOR CIRCULATION PATTERN SURVEY N64-15486 07-21

ISOTOPE TECHNOLOGY RESEARCH IN FIELDS OF WASTE DISPOSAL, WATER, AIR POLLUTION, AND WEATHER
TID-7681 N64-16018 07-23

DIFFUSION OF PARTICLES FROM SOURCES OF AIR POLLUTION AND CRITERIA FOR LIMITS OF POLLUTION IN TERMS OF SKY BRIGHTNESS NEAR SUN
AFCRL-63-240 N64-18402 10-28

COEFFICIENTS FOR ELECTRON ATTACHMENT, ELECTRON-MOLECULE COLLISIONS, AND ION-ION AND ELECTRON-ION RECOMBINATION IN ATMOSPHERIC GASES AND IMPURITIES
RTD-TDR-63-3076 N64-20112 13-24

EFFECT OF WIND CIRCULATION ON DIFFUSION OF AIR POLLUTION EMITTED FROM CONTINUOUSLY ACTIVE SOURCE N64-20207 13-21

TIME & DISTANCE VALUES OF STATIONARY DISTRIBUTION OF CONTAMINANT CONCENTRATION FROM POINT SOURCE IN ATMOSPHERE N64-20208 13-21

UPPER ATMOSPHERE POLLUTION BY ROCKETS
RM-3961-PR N64-28647 20-12

METEOROLOGICAL MEASUREMENT OF CONDENSATION NUCLEI, IONIZATION DISTRIBUTION, AND TRACE GAS IMPURITIES IN EARTH ATMOSPHERE
AD-420435 N64-31177 22-21

AIR PURIFICATION
SA SULFATE CYCLE
AUTOMATIC CONTROL OF GREEN PLANT SYSTEMS FOR PHOTOSYNTHETIC AIR REGENERATION - MANNED SPACE FLIGHT USE
JPRS-21610 N64-10201 01-16

AIR REGENERATION SYSTEM FOR SEALED CAPSULE OCCUPIED BY ANIMALS DURING SPACE FLIGHTS N64-11691 03-16

ENCYCLOPEDIA DESCRIPTIONS OF AIR REGENERATION, ROENTGEN, ROENTGEN MACHINES, & RESPIRATORS
JPRS-22213 N64-12139 03-16

CHEMISTRY - CHEMICALS AND RADIOACTIVE ISOTOPIC CONTAMINANTS IN AIR AND URINE
SC-4783/RR/ N64-17268 09-07

CHIMNEY HEIGHT AND AIR PURIFICATION - FREQUENCY DISTRIBUTION OF WIND VELOCITY
E-T-G-63-27 N64-18767 11-21

AIR PURIFICATION AND CONTROL ON NUCLEAR POWERED SUBMARINES
NRL-6053 N64-18868 11-16

LABORATORY DEVICE FOR CLOSED AIR LOOP ANALYSIS OF CARBON DIOXIDE REMOVAL AGENTS
FDL-TDR-64-67, PT. I N64-31927 23-16

CONCENTRATION AND PARTICLE SIZE DISTRIBUTION OF DUST PASSING GAS TURBINE AIR CLEANERS AND ENTERING ENGINE
TRECOM-TR-64-16 N64-32614 23-27

AIR TO AIR MISSILE
GUIDED MISSILES - AIR TO AIR, AIR TO SURFACE, SURFACE TO AIR, AND SURFACE TO SURFACE N64-14936 06-30

AIR TO SURFACE MISSILE
GUIDED MISSILES - AIR TO AIR, AIR TO SURFACE, SURFACE TO AIR, AND SURFACE TO SURFACE N64-14936 06-30

AIR TRAFFIC
AIR TRAFFIC SAFETY RESEARCH
DFL-208 N64-10233 01-01

FLIGHT SEQUENCE IN SHORT-DISTANCE TRAFFIC AREA OF AIRPORTS
REPT.-62/2 N64-10986 02-22

PAPERS ON HOVERCRAFT AND AIR TRAFFIC
FTD-TT-63-213/1 N64-17304 09-10

AIR TRAFFIC PATTERNS AND COMMUNITY CHARACTERISTICS N64-25068 17-22

EFFECTS OF AIR TRAFFIC OPERATING AT SEVERAL PROPOSED JETPORTS UPON AIR TRAFFIC CONTROL SYSTEM N64-26466 18-10

AIR TRAFFIC WARNING PROGRAM FOR RADIOACTIVE CONTAMINATION PROJECTION - PROJECT SHOAL
VUF-1017 N64-33353 24-22

AIR TRAFFIC CONTROL
SA LANDING AID
CF CONTROL TOWER
NATIONAL AVIATION SYSTEM /NAS/ CHART OVERLAYS FOR AIR TRAFFIC CONTROL N64-10181 01-06

MINIMUM TIME TRACK DATA IN AIRWAYS DESIGN FOR NEW YORK TO LONDON AIR ROUTE - AIR TRAFFIC CONTROL N64-10261 01-08

SUPERSONIC AIR TRANSPORT FLIGHT PROFILE SIMULATION FOR AIR TRAFFIC CONTROL DEVELOPMENT AND FLIGHT PLANNING N64-10349 01-04

AIR TRAFFIC CONTROL - ERROR DISTRIBUTION AND DATA ACQUISITION FOR NAVIGATION SYSTEMS N64-11405 02-22

AIRCRAFT TAXIING & ROUTING COORDINATION EQUIPMENT FOR DETECTING AIRCRAFT MOVEMENTS ON AIRPORT SURFACE & IN RUNWAY APPROACH ZONE N64-11477 03-10

EFFECTS OF WEATHER ON AIRPORT CAPACITY - AIR TRAFFIC CONTROL N64-11594 03-10

NATIONAL AIRSPACE SYSTEM DESIGN - AIR TRAFFIC, NAVIGATION, AIRPORT AND WEATHER CONTROL N64-11912 03-01

ADAPTIVE CONTROLLER-EQUIPMENT MODULE - HUMAN CONTROLLER, SATELLITE COMPUTER, DISPLAYS AND CONTROLS FOR AIR TRAFFIC REGULATION N64-13005 04-14

MODEL FOR COMPLEX AIR TRAFFIC CONTROL - CIVIL AVIATION
RD-64-16 N64-14935 06-10

IBM 1401 COMPUTER PROGRAMMING OF AIRLINE FLIGHTS - AIR TRAFFIC CONTROL N64-15670 07-10

HUMAN ENGINEERING IN POWER GENERATOR AND VOICE COMMUNICATION LINK SUBSYSTEMS OF MOBILE AIR TRAFFIC CONTROL & COMMUNICATION SYSTEM, AN/TSQ-47
ESD-TDR-63-656 N64-15752 07-14

RADAR MEASUREMENTS OF THUNDERSTORM ACTIVITY IN

STUDYING AIR TRAFFIC CONTROL N64-16894 09-21

STORM WEATHER EFFECT ON AIR TRAFFIC CONTROL
NSSP-12 N64-16901 09-21

FACILITIES AND SERVICES FOR INTERNATIONAL AIR NAVIGATION IN SOUTHEAST ASIA REGION - ICAO
N64-17259 09-10

MAPS SHOWING RADAR SITES FOR AIR TRAFFIC CONTROL
RD-64-26, SUPPL. 1 N64-19004 11-12

WEATHER FACILITIES FOR AIR TRAFFIC CONTROL IN HIGH DENSITY AIRPORTS
RD-64-32 N64-20278 13-21

AUTOMATIC RADAR ALTIMETER USING AIR TRAFFIC CONTROL BEACONS N64-20507 13-08

AIR TRAFFIC CONTROL - INSTRUMENT LANDING SYSTEM ON RUNWAYS AT KENNEDY AIRPORT & LAGUARDIA AIRPORT
RD-64-87 N64-23240 16-10

DIGITAL COMPUTER TECHNIQUES FOR TERMINAL AREA AIR TRAFFIC CONTROL N64-25072 17-22

POSITION DATA ACQUISITION TECHNIQUES FOR OVER-OCEAN AIR TRAFFIC CONTROL
REPT.-5088-12-F N64-25084 17-22

EQUIPMENT CONFIGURATIONS FOR AIR TRAFFIC CONTROL TOWER CABS AT FOUR WORKLOAD LEVELS
RD-64-64 N64-25097 17-10

AIR TRAFFIC CONTROL PROBLEMS & RECOMMENDATIONS FOR COMMUNICATION, NAVIGATION, & EQUIPMENT IMPROVEMENT
RTCA-54-63/DO-120 N64-26261 18-22

WEATHER SERVICE EMERGENCY MISSION SUPPORT SYSTEM - AIR TRAFFIC CONTROL, COMMUNICATIONS, & NAVIGATIONAL AID EQUIPMENT
REPT.-4-WGP-105-15-1 N64-26318 18-21

EFFECTS OF AIR TRAFFIC OPERATING AT SEVERAL PROPOSED JETPORTS UPON AIR TRAFFIC CONTROL SYSTEM N64-26466 18-10

RELIABLE COMMUNICATION SYSTEM FOR AIR TRAFFIC CONTROL IN NORTH ATLANTIC
RD-64-7 N64-27267 19-08

TECHNIQUES OF UPPER LEVEL WIND ANALYSIS AND FORECASTING FOR USE BY AUTOMATIC AIR TRAFFIC CONTROL SYSTEM
RD-64-101 N64-27947 20-21

ELECTRONIC AND MECHANICAL INTERFACE PROBLEMS ASSOCIATED WITH SYSTEM INTEGRATION AND GROUND SUPPORT OF AN/TSQ-47 AIR TRAFFIC CONTROL SYSTEM
ESD-TDR-64-199 N64-29374 21-10

EXPERIENCE AND APTITUDE TESTS FOR PREDICTION OF TRAINING AND JOB PERFORMANCE OF AIR TRAFFIC CONTROL SPECIALISTS
CARI-63-31 N64-29848 21-14

MODIFICATIONS OF AIR TRAFFIC CONTROL AND COMMUNICATION SYSTEM
ESD-TDR-64-251 N64-32107 23-08

HUMAN FACTORS PROBLEMS OCCURRING DURING TESTING OF AIR TRAFFIC CONTROL/COMMUNICATIONS SYSTEMS
REPT.-353-R-6 N64-32162 23-08

PREDICTION OF VELOCITY FIELDS IN WAKE OF FIXED- AND ROTARY-WING AIRCRAFT FOR AIR TRAFFIC CONTROL SEPARATION STANDARDS
RD-64-55 N64-32466 23-22

THREE-PULSE SIDE LOBE SUPPRESSION TECHNIQUE FOR AIR TRAFFIC CONTROL RADAR BEACON SYSTEM
RD-64-36 N64-32467 23-08

INTRODUCING SUPERSONIC TRANSPORTS INTO AIR TRAFFIC CONTROL SYSTEMS - FLIGHT TESTS
NASA-TN-D-2219 N64-33082 24-22

AIR TRANSPORTATION
CF CIVIL AVIATION

VERY HIGH FREQUENCY AIR-GROUND COMMUNICATION IN AIR TRANSPORTATION
JPRS-19480 N64-10657 01-08

MONTE CARLO METHODS FOR MATHEMATICAL AIR AND SPACE TRAVEL PROBLEMS
WGLR-6/1963 N64-11863 03-16

DATA PROCESSING OF DELAY INFORMATION ON AIRLINES AND AIRPORTS N64-12385 03-10

LOWERING MINIMAL WEATHER CONDITIONS FOR SAFE LANDING OF TRANSPORT AIRCRAFT
AGARD-436 N64-14216 06-10

AIRBORNE EQUIPMENT
HIGH FREQUENCY AND VERY HIGH FREQUENCY ROCKETBORNE SHROUD ANTENNAS
NASA-TM-X-51059 N64-10109 01-09

LOW-COST INERTIAL NAVIGATION SYSTEMS FOR AIRCRAFT
N64-10127 01-22

AIRBORNE COMPENSATION TYPE DIGITAL CONVERTER
JPRS-21553 N64-10196 01-20

MINIMUM PERFORMANCE STANDARDS FOR AIRBORNE INSTRUMENT LANDING SYSTEM LOCALIZER RECEIVING EQUIPMENT
RTCA-20-63/DO-115 N64-10420 01-08

STANDARD PERFORMANCE CRITERIA FOR AIRBORNE AUTOPILOT/COUPLER EQUIPMENT FOR USE WITH INSTRUMENT LANDING SYSTEMS
RTCA-31-63/DO-118 N64-10421 01-22

MECHANIZED AIRBORNE APPROACH AND LANDING SYSTEM FEASIBILITY STUDY
NASA-CR-52999 N64-11734 03-22

FLIGHT TESTS OF REMOTE AIRBORNE TELEVISION DISPLAY OF GROUND RADAR COVERAGE VIA TACAN - RATAC
ASD-TDR-63-730 N64-12174 03-08

AIR-TO-AIR & GROUND-TO-AIR MICROWAVE PROPAGATION STUDIES FOR AIRBORNE COMMUNICATION SYSTEM
AD-424617 N64-13113 04-09

BALLOON-BORNE ASTRONOMICAL TELESCOPE - STELLAR GUIDANCE SYSTEM N64-14258 06-22

EVALUATION OF WELDED CONNECTIONS IN AIRBORNE ELECTRONIC EQUIPMENT
NADC-EL-61121 N64-14637 06-17

GROUND VELOCITY AND DRIFT ANGLE MEASUREMENTS BY AIRBORNE DOPPLER RADAR N64-15146 07-08

INFINITELY LONG CABLE AND INDUCTION METHODS OF AIRBORNE ELECTRICAL EXPLORATION - GEOLOGY
N64-15414 07-12

PROPAGATION CHARACTERISTICS FOR AIR-GROUND WAVES IN 800-MC/S RANGE - EFFECT OF FLIGHT PATTERN
ESD-TDR-63-422 N64-15701 07-08

PACKAGING OF AIRBORNE MULTIPLEXER-ENCODER PULSE CODE MODULATION TELEMETRY SYSTEM
N64-16160 08-09

MICROMINIATURE SEMICONDUCTOR CIRCUITS FOR AIRBORNE EQUIPMENT, COMPUTER CIRCUITRY, & PORTABLE INSTRUMENTS N64-21401 14-09

AIRBORNE INSTRUMENTATION PLATFORM FOR SATELLITE AND SPACECRAFT TRAJECTORIES
ESD-TDR-64-182 N64-22972 16-08

HIGH PRECISION CRYSTALS - UNITS FOR AIRBORNE FREQUENCY SOURCES
ASD-TDR-62-1054 N64-24867 17-09

ENERGY AND WAVELENGTH CALIBRATION OF GONDOLA V SPECTROMETER WITH GOLD-DOPED GERMANIUM DETECTOR BY BALLOON IN STRATOSPHERE
CARDE-TN-1591/64 N64-27533 19-15

AIRCRAFT ELECTRIC EQUIPMENT, MOTORS, AND GENERATORS - TEXTBOOK

FTD-TT-63-209/1&2 N64-28287 20-06

FLIGHT TEST RESULTS FROM FOUR-COMPONENT BALANCE & OTHER AIRBORNE INSTRUMENTATION IN SUPERSONIC MISSILE WITH CRUCIFORM RECTANGULAR WINGS
WRE-TN-SAD-88 N64-28731 20-15

AIRCRAFT INSTALLATION OF DUAL CELL RUBIDIUM VAPOR MAGNETOMETER N64-30371 22-15

DATA ANALYSIS OF STRAPPED DOWN AIRBORNE ELECTROSTATIC GYRO
MH-AERO-61811-TR5 N64-31637 23-20

MICROELECTRONICS IN AIRBORNE ELECTRONIC EQUIPMENT
QE/C-64-607 N64-32931 24-09

AIRCRAFT-BORNE SAMPLING DEVICE FOR COLLECTION AND FRACTIONATION OF TROPOSPHERIC AEROSOL PARTICLES
J-1038 N64-33668 24-15

AIRBORNE ANTENNAS FOR COMBAT SURVEILLANCE - PARTIALLY DIELECTRIC LOADED TROUGH WAVEGUIDE WITH ARRAY OF SLOTS IN ONE SIDE WALL
AD-445798 N64-33767 24-08

EQUALIZATION OF REPRODUCING AMPLIFIERS AND TESTING OF GROUND AND AIRBORNE EQUIPMENT FOR WIDEBAND RECORDER SYSTEM
CLD-1600 N64-33772 24-08

AIRBORNE RANGE AND ORBIT DETERMINATION /AROD/
INSTRUCTION MANUAL FOR AIRBORNE RANGE AND ORBIT DETERMINATION /AROD/ VEHICLE TRACKING RECEIVER
NASA-CR-56951 N64-27308 19-08

AIRCRAFT
SA B-47 AIRCRAFT
SA B-58 AIRCRAFT
SA BOMBER AIRCRAFT
SA BREGUET 941 AIRCRAFT
SA C-130 AIRCRAFT
SA CARGO AIRCRAFT
SA DORNIER DO-27 AIRCRAFT
SA DOUGLAS DC-8 AIRCRAFT
SA DRONE
SA F- 8 AIRCRAFT
SA F-105 AIRCRAFT
SA F-111 AIRCRAFT
SA FAN-IN-WING AIRCRAFT
SA FIGHTER AIRCRAFT
SA FIXED-WING AIRCRAFT
SA GLIDER
SA GLOSTER GA-5 AIRCRAFT
SA GROUND EFFECT MACHINE
SA HAMBURGER HFB 320 AIRCRAFT
SA HELICOPTER
SA HYPERSONIC AIRCRAFT
SA IL'YUSHIN IL-62 AIRCRAFT
SA JET AIRCRAFT
SA MILITARY AIRCRAFT
SA MULTIENGINE AIRCRAFT
SA PILOTED AIRCRAFT
SA RECONNAISSANCE AIRCRAFT
SA RESEARCH AIRCRAFT
SA ROCKET AIRCRAFT
SA SKOL AIRCRAFT
SA SUBSONIC AIRCRAFT
SA SUPERSONIC AIRCRAFT
SA T-33 AIRCRAFT
SA TERRAIN FOLLOWING AIRCRAFT
SA TILT-WING AIRCRAFT
SA TRAINING AIRCRAFT
SA TRANSALL C-160 AIRCRAFT
SA TRANSONIC AIRCRAFT
SA TRANSPORT AIRCRAFT
SA TURBOJET AIRCRAFT
SA TURBOPROP AIRCRAFT
SA WOOD AIRPLANE CONSTRUCTION
SA X-15 AIRCRAFT
CF BALLOON
CF FLIGHT VEHICLE
CF INFLATABLE STRUCTURE
CF SEAPLANE
CF WEAPON
GERMAN AIRCRAFT INDUSTRY
JPRS-18055 N64-10495 01-17

AIRCRAFT PRODUCTION RELIABILITY PROGRAM MANAGEMENT
FOR OPTIMUM TIME & COST - CONTRACTOR-SUBCONTRACTOR RELATIONSHIP
EWR-104-63 N64-10973 02-20

FOUR-SECTOR AIRCRAFT EXTERIOR LIGHTING SYSTEM AS COLLISION WARNING DEVICE N64-11654 03-04

DEFORMATION AND STRESS ANALYSIS FOR PNEUMATIC AIRCRAFT TIRE USING COMPUTER PROGRAM
NASA-CR-55174 N64-13192 04-17

LATERAL MOTION OF AIRCRAFT WITH INERTIALLY SLENDER CONFIGURATION
ARC-R&M-3334 N64-13384 04-04

GROUND PERFORMANCE OF AIRCRAFT - TIRE TREAD DESIGN FOR OPTIMUM BRAKING AND SLUSH DRAG PERFORMANCE ON WET RUNWAYS
AGARD-429 N64-13883 05-10

AERODYNAMIC HEATING OF HIGH SPEED AIRCRAFT
ABL/EPA-11 N64-14628 06-13

EFFECT OF SLUSH IN LENGTHENING TAKEOFF RUNS OF AIRCRAFT
TIL/T-5428 N64-14739 06-10

MECHANISMS OF POTENTIAL AIRCRAFT FUEL TANK VENT FIRES AND EXPLOSIONS CAUSED BY ATMOSPHERIC ELECTRICITY
NASA-TN-D-2240 N64-15528 07-26

CALCULATION OF CHARACTERISTICS OF AXIAL FOREPUMPS FOR AIRCRAFT FUEL SYSTEMS
FTD-TT-63-418/1&2&4 N64-16367 08-17

ALTITUDE, VELOCITY, AND RANGE LIMITATIONS ON AIRCRAFT FLIGHT
FTD-TT-63-788/1 N64-16387 08-04

LAP BELT TIGHTENER IMPROVEMENT - SAFETY DEVICE
FA-M64-23-1 N64-17649 09-16

AERODYNAMICS, STRUCTURES, PROPERTIES OF METALS AND ALLOYS, MECHANICAL ENGINEERING, GUIDED WEAPONS, AND AIRCRAFT OPERATION RESEARCH
N64-18420 10-01

LONGITUDINAL AND LATERAL DIRECTION FLYING QUALITY OF PILOTED REENTRY VEHICLES
TE-1516-F-1 N64-18640 11-30

AERODYNAMIC NOISE IN AIRCRAFT AND WIND TUNNELS
SR-AE-2-63 N64-20438 13-23

FLIGHT IN ROCKET LAUNCHING AIRCRAFT DURING TRAINING MISSION
FTD-TT-63-97/1 N64-21929 15-30

DETERMINISTIC AND STATISTICAL ANALYSES OF DYNAMIC LOADING OF AIRCRAFT OPERATING ON PREPARED SURFACES
RTD-TDR-63-4139, VOL. II N64-22316 15-33

AIRCRAFT REFUELING IN AIR
FTD-TT-62-1699/1&2 N64-22629 15-04

TREAD WEAR EFFECT ON WET RUNWAY BRAKING EFFECTIVENESS OF AIRCRAFT TIRES
AIAA PAPER-64-346 N64-23352 16-04

OPTIMAL MODE OF HORIZONTAL FLIGHT FOR AIRCRAFT
N64-23557 16-02

FUEL MOTION IN TANKS & AIRCRAFT STABILITY
N64-23567 16-02

METHODS FOR DETERMINING AIRCRAFT VERTICAL VELOCITY
NAVWEPS-8387 N64-24068 16-04

AIRCRAFT LAMINAR FLOW CONTROL TECHNIQUES
ASD-TDR-63-689 N64-24072 16-11

MEASUREMENT OF EARTH SURFACE TEMPERATURE FROM AIRCRAFT
E-T-G-63-34 N64-24953 17-12

DOWNWIND DEPOSITION OF GLASS BEADS EJECTED FROM AIRCRAFT FLYING AT LOW ALTITUDE
SES-TN-136 N64-25876 18-21

CHECKOUT AND FLIGHT TEST OF AIRBORNE REFUELING DROGUE
ST31-53R-64 N64-26020 18-26

LIGHTNING PROTECTION FOR AIRCRAFT FUEL SYSTEMS
FAA-ADS-18 N64-26276 18-06

LIGHTNING PROTECTION FOR AIRCRAFT FUEL SYSTEMS
FAA-ADS-17 N64-26277 18-04

DETERMINATION OF POSITION ERROR AT LOW ALTITUDES OF AIRSPEED AND STATIC PRESSURE MEASUREMENT SYSTEMS OF AIRCRAFT
RD-64-37 N64-26306 18-15

PILOT PERFORMANCE IN FLIGHT SIMULATORS & AIRCRAFT
AIAA PAPER-64-554 N64-26575 18-10

AIRCRAFT FLIGHT CHARACTERISTICS
FTD-TT-63-727/1&2 N64-26726 18-04

EFFECT OF WING STALLING IN TRANSITION ON 1/4-SCALE MODEL OF VZ-2 AIRCRAFT
NASA-TN-D-2381 N64-26840 18-04

OPEN OCEAN TEST OF SEAPLANE STABILIZED WITH VERTICAL FLOATS
GD/C-64-197 N64-27849 19-04

DERMATOLOGICAL EFFECTS OF AIRCRAFT FUEL AND THERAPY
JPRS-16055 N64-28631 20-16

AEROELASTICITY OF HIGH SPEED AIRCRAFT
ARC-CP-668 N64-28852 20-33

AVIATION FUEL SULFUR CONTENT AND SEA WATER INGESTION EFFECT ON HOT GAS CORROSION OF SUPERALLOYS IN HIGH PERFORMANCE ENGINES
REPT.-3686-64R N64-31632 23-18

FURE FLUID SYSTEMS, COMPONENTS, AND CONTROL DEVICES - BIRD HAZARD TO AIRCRAFT - CURRENT PROJECTS IN MECHANICS, HYDRODYNAMICS, AERODYNAMICS AND THERMODYNAMICS
ONE/NAE-1964 /2/ N64-32015 23-10

ESTIMATED FREQUENCIES OF POTENTIAL AIRCRAFT ICING CONDITIONS AT SPECIFIED ALTITUDES
AD-448047 N64-32029 23-21

ROCKET ENGINE FOR XM-7 AIRCRAFT CAPSULE EJECTION CATAPULT
PA-TM-1224 N64-32030 23-27

PREDICTION OF VELOCITY FIELDS IN WAKE OF FIXED- AND ROTARY-WING AIRCRAFT FOR AIR TRAFFIC CONTROL SEPARATION STANDARDS
RD-64-55 N64-32466 23-22

RADIO NOISE SPECIFICATION TESTING OF ELECTRONIC FLASHERS FOR AIRCRAFT LIGHTS
RAE5OP023 N64-32475 23-08

AIRCRAFT APPROACH AND LANDING SYSTEMS FOR WORLDWIDE, ALL WEATHER, DAY AND NIGHT OPERATION FOR TACTICAL OPERATION MOBILITY
AD-442741 N64-32585 23-22

AIRCRAFT ACCIDENT
AIRCRAFT AQUAPLANING ON WET RUNWAYS AS AN AIRCRAFT ACCIDENT FACTOR
BOSP-7-4-2 N64-10436 01-04

AIRCRAFT ACCIDENT INVESTIGATION - STATISTICS, WIND SHEAR HAZARD, AND RELATED LAWS & REGULATIONS
ICAO-CIRCULAR-64-AN/58 N64-10933 02-22

PROBLEMS OF VISUAL PERCEPTION AND REACTION TIME FOR PREVENTION OF SUPERSONIC AIRCRAFT COLLISIONS
N64-15047 07-16

COMMERCIAL AIRCRAFT ACCIDENT INVESTIGATION - CRASH OF NORTHWEST AIRLINES FLIGHT 293, JUNE 3, 1963
N64-19809 12-22

VISUAL AIDS FOR AIRCRAFT PILOTS TO AVOID MID-AIR COLLISIONS
FAA-RD-64-2 N64-20440 13-22

AIRCRAFT ACCIDENT REPORT - AAXICO AIRLINES CARGO FLIGHT CRASH AUGUST 14, 1963 NEAR GREAT FALLS, MONTANA
REPT.-1-0010 N64-20522 13-22

CRASH INJURIES IN AIRCRAFT ACCIDENTS
AVSER-63-8 N64-22967 16-04

CREDIBLE CATASTROPHIC EVENTUALITIES FROM PROPELLANT TRANSPORTATION, ROCKETS, AIRCRAFT AND WEATHER CONTROL
NASA-CR-58145 N64-30504 22-16

AIRCRAFT BASE
STRATEGIC AIR BASES - SELECTION AND USE - RAND PROJECT
R-266 N64-10654 11-01

AIRCRAFT BREATHING APPARATUS
SEE OXYGEN

AIRCRAFT CABIN
CF PRESSURIZED CABIN
RELATIONSHIP BETWEEN INSPIRED OXYGEN CONCENTRATION AND AIRCRAFT CABIN ATMOSPHERIC PRESSURE IN HIGH ALTITUDE FLIGHT
FPRC-1214 N64-25848 18-16

PILOT TRAINING CABIN FOR BAC 111 AIRCRAFT, CARAVELLE AIRCRAFT, MINIATURE COMPUTER FOR GUIDANCE AND ON-BOARD CONTROL, AND LOCKHEED JETSTAR FOR TRAINING N64-31515 23-10

AIRCRAFT CARRIER
LUMINESCENT AND REFLECTIVE COATINGS AS VISUAL AIDS FOR NIGHT CARRIER LANDINGS
NRL-5973 N64-14122 05-23

AIRCRAFT COMMUNICATION
SIMULATION OF COMMUNICATION CAPABILITY BETWEEN AIRCRAFT OR AIRCRAFT AND GROUND STATION
ESD-TDR-63-493 N64-21550 15-10

AIRCRAFT CONFIGURATION
ROTATION-BALANCE AERODYNAMIC WIND TUNNEL DATA AND DIGITAL COMPUTER STUDY OF DEVELOPED SPINS AND RECOVERY OF SWEPTBACK-WING AIRCRAFT CONFIGURATION
NASA-TN-D-2181 N64-15330 07-04

AIRCRAFT CONFIGURATIONS FOR SUPERSONIC & HYPERSONIC FLIGHT N64-20292 13-04

EFFECT OF AIRCRAFT CONFIGURATION ON SONIC BOOM OVERPRESSURES N64-20293 13-23

AERODYNAMIC CHARACTERISTICS OF AIRCRAFT CONFIGURATIONS WITH HIGHLY SWEPT TWISTED AND CAMBERED ARROW WINGS AT HYPERSONIC SPEEDS
N64-20294 13-04

TECHNIQUES DEMONSTRATING MINIMUM FLYING SPEED OF DELTA WING AIRCRAFT
NASA-TN-D-2337 N64-24966 17-04

STRUCTURAL ANALYSIS OF CRASH IMPACT CONFIGURATIONS IN STEEL TUBE AND FABRIC AIRCRAFT
AVSER-63-9 N64-27845 19-33

X-22A TRI-SERVICE V/STOL AIRCRAFT - FREEZE CONFIGURATIONS, WIND TUNNEL TESTS, FLIGHT CONTROL SYSTEM REDESIGN, WEIGHT CONTROL, AND DUCT NOISE SPECIMEN TESTS
REPT.-2127-933009 N64-32298 23-04

AIRCRAFT CONTROL
AIRCRAFT TAXIING & ROUTING COORDINATION EQUIPMENT FOR DETECTING AIRCRAFT MOVEMENTS ON AIRPORT SURFACE & IN RUNWAY APPROACH ZONE
N64-11477 03-10

AIRCRAFT POWER CONTROL SYSTEMS ANALYSIS
N64-13562 05-03

FEATURES OF LARGE TRANSPORT AIRCRAFT AFFECTING CONTROL DURING APPROACH AND LANDING
AGARD-421 N64-13878 05-04

DESIGN OF INTEGRATED PILOT-CONTROLLER SYSTEM FOR EMERGENCY CONDITIONS

RTD-TDR-63-4092 N64-15497 07-22

CONTROL OF AIRCRAFT IN THUNDERSTORMS
N64-16900 09-21

PILOT AND AIRCRAFT - PSYCHOPHYSIOLOGICAL FACTORS IN HUMANS WHEN CONTROLLING AIRCRAFT
FTD-TT-63-276/1&2 N64-22188 15-04

TURBOJET ENGINE AND TURBOJET WITH AFTERBURNER AS UNIT IN AUTOMATIC AIRCRAFT CONTROL SYSTEMS
N64-23595 16-06

FLIGHT SIMULATION GUIDANCE & CONTROL
NASA-CR-82 N64-24088 16-04

FLUID POWER CONTROL DEVICES FOR AEROSPACE SYSTEMS
REPT.-8998-7 N64-26886 18-06

PREDICTIVE INSTRUMENTATION TECHNIQUES FOR MANUAL AIRCRAFT CONTROL
NB-9202-0027 N64-30559 22-15

AIRCRAFT CONTROL AND STABILITY THEORIES
FTD-TT-64-396/1&2&4 N64-33937 24-04

AIRCRAFT DESIGN
CF WOOD AIRPLANE CONSTRUCTION
VERTICAL TAKEOFF AND LANDING AIRCRAFT IMPROVED DESIGN REQUIREMENTS N64-10172 01-04

AERODYNAMIC ASPECTS OF BOUNDARY LAYER CONTROL FOR HIGH LIFT AT LOW SPEEDS DURING APPROACH, LANDING, AND TAKEOFF - AIRCRAFT DESIGN AND HANDLING
AGARD-414 N64-11907 03-03

DESIGN PROBLEMS OF TAKEOFF & LANDING OF HIGH-SPEED AIRCRAFT
AGARD-413 N64-13151 04-04

SIMULATOR ASSESSMENTS OF TAKEOFF AND LANDING IN AIRCRAFT DESIGN
AGARD-432 N64-13884 05-10

AIRCRAFT DESIGN - PROBABILITY & SCATTER IN CUMULATIVE FATIGUE DAMAGE
RM-3688-PR N64-14020 05-33

STRUCTURAL & AERODYNAMIC CONSIDERATIONS FOR VARIABLE SWEEP AIRCRAFT
AGARD-438 N64-14414 06-04

DESIGN OF TURBOJET & TURBOPROP AIRCRAFT AND COMPONENTS - TEXTBOOK
FTD-TT-62-913/1&2 N64-14768 06-04

NOISE CONSIDERATIONS IN THE DESIGN AND OPERATION OF AIRCRAFT
NASA-RP-137 N64-15975 07-23

TRIM STATE AND LONGITUDINAL STABILITY OF SLENDER INTEGRATED FLEXIBLE AIRCRAFT CONFIGURATION
ARC-R&M-3345 N64-18326 10-04

GAMMA RADIATION TO DETERMINE SHIELDING EFFECTIVENESS OF SPACE VEHICLES AND USE OF RADIO ISOTOPES FOR FRACTURE STUDIES
TID-7689 N64-18797 11-23

SUBSTITUTE SYSTEM FOR ELIMINATING VIBRATION IN AIRCRAFT
DVL-268 N64-19805 12-03

OPTIMUM GEOMETRIC PARAMETERS OF AIRCRAFT DESIGN AND CONSTRUCTION
FTD-TT-62-1717/1 N64-24263 17-02

CONVENTIONAL AND VTOL FREIGHTER AIRCRAFT DESIGN STUDY
COA-AERO-171 N64-27515 19-04

ULTIMATE DESIGN LOADS FOR LARGE FLEXIBLE MILITARY AIRCRAFT
SEG-TDR-64-24 N64-28797 20-04

POWER SPECTRAL GUST DESIGN PROCEDURES FOR CIVILIAN AIRCRAFT - DYNAMIC ANALYSIS
MPR-4 N64-30072 21-32

POWER SPECTRAL GUST DESIGN FOR CIVIL AIRCRAFT
MR-6 N64-30489 22-33

AIRCRAFT DETECTION
RADAR VECTORING OF FIGHTER AIRCRAFT
FTD-TT-63-606/1&2 N64-16429 08-08

AIRCRAFT ENGINE
SA GAS TURBINE
AIR INTAKE PROBLEMS IN VERTICAL TAKEOFF AIRCRAFT ENGINES
EWR-88-63 N64-10970 02-27

COMBINING VARIOUS TYPE AIRCRAFT ENGINES FOR GREATER EFFICIENCY AND EFFECTIVENESS
FTD-TT-63-957/1&2 N64-19750 12-27

GAS TURBINES USED IN AIRCRAFT PROPULSION SYSTEMS
JPRS-24549 N64-19888 12-27

FLOW SEPARATION ABOUT CONES AT INCIDENCE AND FAN-IN-WING AIRCRAFT ENGINE FOR VTOL AIRCRAFT
DME/NAE-1963/2/ N64-19916 12-02

AUTOMATIC CONTROL OF AIRCRAFT ENGINES
FTD-TT-63-746/1&2&4 N64-23589 16-01

TEST FACILITIES FOR AIRCRAFT ENGINES UNDER GROUND CONDITIONS N64-25391 17-10

AUTOMATIC CONTROL OF AIRCRAFT ENGINES
FTD-TT-63-745/1&2&4 N64-25431 17-01

AIRCRAFT GAS TURBINE ENGINES
FTD-TT-63-405/1&2 N64-26190 18-27

REACTOR DESIGN FOR AIRCRAFT NUCLEAR PROPULSION
NASA-CR-52957 N64-29788 21-23

EVALUATION OF LIFT ENGINES IN TACTICAL VTOL AIRCRAFT AND THERMIONIC ENERGY CONVERSION RESEARCH
N64-31876 23-23

EVALUATION OF LIFT ENGINES IN TACTICAL VTOL AIRCRAFT
N64-31877 23-04

AIRCRAFT EXHAUST
DATA ON AIRCRAFT SMOKE TRAILS N64-17341 09-21

AIRCRAFT FUEL
FUNGUS GROWTHS IN AVIATION FUEL SYSTEMS
REPT.-252 N64-18148 10-16

FUNGUS GROWTHS IN AVIATION FUEL SYSTEMS
REPT.-252 N64-18148 10-16

ANALYTICAL DATA FOR AVIATION GASOLINE AND TURBINE FUELS N64-18150 10-26

EFFECT OF AVIATION TURBINE HYDROCARBON FUEL PROPERTIES ON CORROSION OF SUPERALLOYS AND ON FLAME RADIATION IN COMBUSTOR
RDR-3753-64R N64-33849 24-26

AIRCRAFT HYDRAULIC SYSTEM
CALCULATIONS AND PHYSICAL DESIGNS FOR AIRCRAFT HYDRAULIC DEVICES
FTD-TT-63-939/1&2 N64-22358 15-06

AIRCRAFT INSTRUMENT
CF POSITION INDICATOR
MICROWAVE RADIOMETER TERRAIN SCANNING SYSTEM IN B-25 AIRCRAFT N64-10925 02-21

FACILITIES EMPLOYING BAROMETRIC PRESSURE DEVICES FOR CALIBRATION OF AIRCRAFT ALTIMETERS
N64-11423 02-15

PILOTING ERRORS AND AIRCRAFT INSTRUMENTS
RSIC-89 N64-12238 03-14

ARMY-NAVY AIRCRAFT INSTRUMENTATION RESEARCH - VERTICAL DISPLAY-CONTACT ANALOG SIMULATOR FOR HOVERING AND AIR TAXI MANEUVERS
D228-421-016 N64-12830 04-15

COMPATIBLE INTERROGATOR-TRANSPONDER TECHNIQUES APPLIED TO AIRBORNE PILOT WARNING INDICATOR AND COLLISION AVOIDANCE SYSTEM - LABORATORY TEST

EB-5261-0341-1 N64-13134 04-10

ALARM - PORTABLE AIRCRAFT CONDITION EVALUATOR RECORDER
TRECOM-TR-63-48 N64-14500 06-04

SAFETY ASPECTS OF CIVIL AIRCRAFT LANDING OPERATIONS - ANALYSIS OF GROUND AND AIRCRAFT INSTRUMENT LANDING EQUIPMENT N64-14725 06-10

IL-28 AIRCRAFT EQUIPMENT AND PROBING OF THE ATMOSPHERE
FTD-TT-63-534/1&2 N64-16426 08-04

COLLISION WARNING DEVICE - COOPERATIVE DEVICE FOR RECOGNIZING WHETHER OBSERVING AIRCRAFT COURSE AND OBSERVED AIRCRAFT COURSE FORM COLLISION TRIANGLE
RAE-TRANS-1053 N64-18718 11-22

TURBOJET AIRCRAFT INSTRUMENTS FOR LANDING SYSTEM FOR USE UNDER CATEGORY III WEATHER CONDITION
N64-20934 14-15

INERTIAL METHOD OF MEASURING AIRCRAFT ACCELERATION
N64-23540 16-02

METHODS AND INSTRUMENTS FOR METEOROLOGICAL OBSERVATIONS - RADIATION AND OPTICAL MEASUREMENT - AIRCRAFT AND RECORDING INSTRUMENTS - RADIOACTIVE ISOTOPES
JPRS-26742 N64-32328 23-21

AIRCRAFT MEASURING INSTRUMENT FOR DIMENSIONS AND CONCENTRATIONS OF LARGE PARTICLES IN CLOUDS AND PRECIPITATION N64-32336 23-15

AIRCRAFT AND RADIOSONDE INSTRUMENTS FOR MEASURING RAINDROP SIZE N64-32337 23-15

AIRCRAFT LANDING
LIGHTING EQUIPMENT FOR AIRCRAFT LANDING GEAR
N64-12154 03-10

LANDING OF MANNED HIGH SPEED AIRCRAFT
AGARD-427 N64-13881 05-04

LUMINESCENT AND REFLECTIVE COATINGS AS VISUAL AIDS FOR NIGHT CARRIER LANDINGS
NRL-5973 N64-14122 05-23

LOWERING MINIMAL WEATHER CONDITIONS FOR SAFE LANDING OF TRANSPORT AIRCRAFT
AGARD-436 N64-14216 06-10

CLOSED-CIRCUIT TELEVISION FOR AIRCRAFT LANDING
NASA-TN-D-2185 N64-15223 07-10

AIRCRAFT LANDING LOADS AND TERRAIN ROUGHNESS EFFECTS ON PERFORMANCE
TRECOM-TR-63-68 N64-15596 07-04

AIRPLANE LANDING AND STOPPING - AERODYNAMICS
AGARD-435 N64-17540 09-10

ALL-WEATHER AIRCRAFT LANDING SYSTEM - PROGRAM MANAGEMENT N64-20933 14-22

GLIDE SLOPE ANTENNAS FOR AIRCRAFT LANDING SYSTEM FOR TURBOJET AND OTHER FAST AIRCRAFT
N64-20935 14-09

AUTOMATIC GUIDANCE AND LANDING SYSTEM FOR AIRCRAFTS N64-21053 14-06

PILOT PERFORMANCE DURING AIRCRAFT BLIND LANDINGS USING CLOSED CIRCUIT TELEVISION DISPLAY AS CONTROL DEVICE
NASA-TN-D-2252 N64-21267 14-08

INSTRUMENT APPOACHES WITH STEEP GRADIENT AIRCRAFT
TRECOM-TR-63-28 N64-22896 16-04

TREAD WEAR EFFECT ON WET RUNWAY BRAKING EFFECTIVENESS OF AIRCRAFT TIRES
AIAA PAPER-64-346 N64-23352 16-04

INFORMATION DISPLAY STUDY TO AID IN PILOT PERFORMANCE DURING ALL-WEATHER AIRCRAFT LANDING
NASA-CR-58030 N64-27814 19-22

AIRCRAFT MODEL
MARVEL PROJECT - PRELIMINARY FLIGHT TESTING OF TEST-BED AIRCRAFT, MARVELETTE
TRECOM-TR-63-66 N64-13849 05-04

WIND TUNNEL MEASUREMENT OF AERODYNAMIC CHARACTERISTICS OF AIRCRAFT MODEL AT HYPERSONIC VELOCITY
AEDC-TDR-64-31 N64-16062 07-04

PRESSURE DISTRIBUTIONS FOR HYPERSONIC FLOWS OVER SHARP EXPANSION CORNER AND RAMPS ON INTERNALLY COOLED MODEL
RTD-TDR-63-4044, PT. I N64-16872 08-02

AIRCRAFT MODEL FLIGHT TEST TECHNIQUES FOR LOW SPEED STUDIES OF DYNAMIC STABILITY AND CONTROL
AGARDOGRAPH-76 N64-19780 12-04

RADAR BACKSCATTER RANGE FOR MEASUREMENT OF LARGE AIRCRAFT MODELS N64-24747 17-10

AIRCRAFT MULTIPURPOSE TEST EQUIPMENT /AMTIDE/
S CHECKOUT EQUIPMENT

AIRCRAFT NOISE
NOISE INTENSITY IN INTERNAL AND EXTERNAL ENVIRONMENTS OF AIRCRAFT
USAARU-64-1 N64-20390 13-04

SONIC BOOMS FROM AIRCRAFT IN MANEUVERS
NASA-TN-D-2370 N64-25808 17-04

ANNOTATED BIBLIOGRAPHY ON AIRCRAFT NOISE
TIL/BIB/73/VOL. 3 N64-27001 19-23

AIRCRAFT PART
SUBSONIC WIND TUNNEL TEST OF JET STREAM SPOILER TO IMPROVE SEPARATION CHARACTERISTICS OF STORE CARRIED BENEATH WING OF HIGH SPEED AIRCRAFT
DTMB-AERO-1059 N64-12057 03-02

VERTICAL FLOAT STABILIZATION SYSTEM DESIGN, CONSTRUCTION, INSTALLATION, & TESTING FOR SEAPLANE
GD-C-63-200 N64-13122 04-06

AIRCRAFT GYROSCOPE
FTD-TT-62-1560/1&2 N64-23383 16-15

SEAT-MOUNTED OXYGEN SUPPLY SYSTEM FOR LIGHTNING AIRCRAFT
FPRC/MEMO-202 N64-25845 18-16

BREAKING STRENGTH AND ENDURANCE TESTS ON ALUMINUM ALLOY AND BRASS TURNBUCKLES FOR AIRCRAFT CONTROL CABLE FITTINGS
SEG-TDR-64-2 N64-25987 18-18

GALLING RESISTANCE OF SKEWED AXIS WING-FOLD FITTINGS & THRUST SURFACES - LUBRICATION & SURFACE FINISH EFFECTS
ADR-05-06-64.1 N64-27191 19-17

SPECIFICATIONS, ACCEPTANCE TESTS, AND QUALITY CONTROL FOR INTERCONNECTING WIRE FOR AIRCRAFT
NA63H-1108 N64-29576 21-17

ACTIVE ELECTROSTATIC DISCHARGER WITH LOW RADIO FREQUENCY INTERFERENCE FOR FIXED AND ROTARY WING AIRCRAFT
DCR-131 N64-31931 23-04

AIRCRAFT PERFORMANCE
VARIATION PROBLEM FOR MAXIMUM AIRCRAFT RANGE - CYBERNETICS N64-12472 04-22

EXISTING HIGH PERFORMANCE AIRCRAFT AS AIRBORNE SIMULATORS FOR SUPERSONIC TRANSPORT PROGRAM
N64-12881 04-10

LOADING FORMULAS FOR TAILED AIRPLANE IN PULLOUT MANEUVERS
ARC-R&M-3327 N64-13355 04-04

AIRCRAFT SUSPENSION - METHODS & PROBLEMS OF

INVESTIGATING AIRCRAFT PERFORMANCE
N64-13560 05-23

MONITORING AIRCRAFT TAKEOFF GROUND RUN PERFORMANCE BY DIGITAL COMPUTER PREDICTOR
AGARD-422 N64-13879 05-04

JET ENGINE NOISE EFFECT ON AIRCRAFT PERFORMANCE
AGARD-433 N64-13942 05-23

EQUATIONS OF MOTION FOR AIRCRAFT WITH JET ENGINES
FTD-MT-63-94/1&2 N64-14378 06-04

AERODYNAMICS, HEAT TRANSFER, AND FLIGHT CHARACTERISTICS OF VARIOUS AIRCRAFT AT VARIOUS SPEEDS
AD-429753 N64-15626 07-11

FLIGHT AND GROUND-BASED DYNAMIC FLIGHT SIMULATOR, STUDY OF HANDLING AND AERODYNAMICS OF LOW-ALTITUDE, HIGH-SPEED AIRCRAFT
AGARD-443 N64-16292 08-04

HANDLING QUALITIES OF V/STOL AIRCRAFT - FLIGHT MECHANICS N64-18505 10-04

TURBULENCE DATA ACQUISITION AND EFFECT OF TURBULENCE ON AIRCRAFT
NASA-CR-53381 N64-27398 19-21

AIRCRAFT RESPONSE IN ROLLING MANEUVERS INCLUDING INERTIAL CROSS-COUPLING EFFECTS OF LATERAL AND LONGITUDINAL MOTIONS
ARC-R&M-3349 N64-29330 21-04

MEASURED SPECTRAL RESPONSE IN PITCHING PLANE OF AIRCRAFT TO VERTICAL VELOCITY COMPONENT OF ATMOSPHERIC TURBULENCE
ARC-CP-708 N64-29383 21-04

ACCELERATIONS ON AIRCRAFT IN MANEUVERING FLIGHT
ARC-R&M-3372 N64-30025 21-04

INFLUENCE OF AUTOMATIC PILOT ON FLIGHT SAFETY AND DYNAMICS OF FLEXIBLE AIRCRAFT IN ATMOSPHERIC TURBULENCE N64-30228 22-04

MOTION EQUATIONS FOR AIRCRAFT GUST LOAD RESPONSE
ADR-06-14-63.1 N64-30893 22-02

AIRCRAFT SAFETY
AVIATION SAFETY RESEARCH PROJECTS - ACCIDENT PREVENTION, FACILITIES, AIRCRAFT, METEOROLOGY, & INSTRUMENTATION N64-10800 02-01

AIRCRAFT PROTECTION FROM THUNDERSTORM ELECTRO-MAGNETIC EFFECTS
L&T-401 N64-13874 05-04

RANGING/ALTITUDE INDICATOR FOR COLLISION AVOIDANCE NAVIGATION
RD-64-5 N64-16254 08-10

FLAMMABILITY AND SMOKE CHARACTERISTICS OF AIRCRAFT INTERIOR MATERIALS
FAA-ADS-3 N64-20622 13-26

EMERGENCY ABANDONMENT OF AIRCRAFT - CREW RESCUE, PROTECTIVE EQUIPMENT, AND SURVIVAL EQUIPMENT
FTD-TT-63-420 1&2 N64-29857 21-16

INFLUENCE OF ATMOSPHERIC TURBULENCE ON AIRCRAFT SAFETY AND PASSENGER COMFORT
ONERA-TP-114/1964/ N64-33052 24-11

FORECASTING GUIDE ON AIRCRAFT ICING
AWSN-105-39 N64-33105 24-21

BIBLIOGRAPHY AND ABSTRACTS - AIRCRAFT CRASH, FIRE, RESCUE, AND EVACUATION TECHNOLOGY
ADS-16 N64-33245 24-04

AIRCRAFT STABILITY
ESTIMATION OF USUAL LONGITUDINAL AND LATERAL STABILITY DERIVATIVES OF AIRCRAFT
ARC-CP-664 N64-10402 01-02

CONCLUSIONS ON AEROSYNOPTIC CONDITIONS OF AIRCRAFT BUFFETING IN UPPER TROPOSPHERE AND LOWER STRATOSPHERE
JPRS-17590 N64-10481 01-04

FLUTTER ANALYSIS OF FAILURE AND VIBRATIONAL MODE FOR AIRCRAFT N64-13552 05-01

INFLUENCE OF VISCOELASTIC DAMPING ON AIRCRAFT RESONANCE N64-13556 05-33

MODE INTERACTION INSTABILITIES OF AIRCRAFT AT LOW FREQUENCIES
ASD-TDR-63-655 N64-13875 05-04

FLIGHT TEST EVALUATION OF AIRPLANE DYNAMIC LONGITUDINAL STABILITY IN LOW ALTITUDE, HIGH SPEED REGION
AD-427696 N64-13885 05-04

DYNAMIC ASPECTS OF STABILITY IN LOW SPEED FLYING MACHINES
TRECOM-TR-63-56 N64-17282 09-04

FUEL MOTION IN TANKS & AIRCRAFT STABILITY N64-23567 16-32

STABILITY OF AIRCRAFT ON NORTHERLY HEADINGS CONTROLLED BY AILERON STEERING AUTOPILOT MONITORED FROM GYROMAGNETIC COMPASS
ARC-R&M-3356 N64-25073 17-04

NONLINEAR LONGITUDINAL DYNAMIC STABILITY OF AIRCRAFT
NASA-TR-R-209 N64-29511 21-04

DYNAMIC LATERAL STABILITY AND CONTROL FOR SUPERSONIC TRANSPORT
NASA-TN-D-2483 N64-31000 22-04

MOTION EQUATION ANALYSIS OF LONGITUDINAL RESPONSE OF UNSTABLE AIRCRAFT
CAL-BA-1610-F-1 N64-33109 24-04

AIRCRAFT STRUCTURE
REDUCTION OF AIRBLAST LOAD ON ABOVEGROUND AIRCRAFT STRUCTURES N64-12416 04-33

ACOUSTIC FATIGUE DESIGN CHARTS FROM AIRCRAFT STRUCTURE TESTING
ASD-TDR-63-820 N64-12612 04-33

NATURAL VIBRATIONAL MODE AND FREQUENCY EFFECT ON AIRCRAFT STRUCTURES N64-13555 05-33

STRUCTURAL & AERODYNAMIC CONSIDERATIONS FOR VARIABLE SWEEP AIRCRAFT
AGARD-438 N64-14414 06-04

BEHAVIOR AND NONDESTRUCTIVE TESTING OF WOOD STRAIGHT-GLUED JOINTS FOR AIRCRAFT STRUCTURES N64-15020 07-19

PROBABILITY OF COLLAPSE OF FAIL-SAFE AIRCRAFT STRUCTURES OF 6 PARALLEL ELEMENTS - FUNCTION OF SERVICE LIFE FOR VARIOUS INSPECTION INTERVALS
HU-961 N64-17150 09-09

ANALOG COMPUTER SOLUTION TO ELECTRONIC PACKAGES AND AIRCRAFT STRUCTURAL PROBLEMS N64-18552 11-23

METAL FATIGUE OF AIRCRAFT STRUCTURES DUE TO TURBULENT BOUNDARY LAYER PRESSURE FLUCTUATIONS AND BOUNDARY LAYER NOISE
AGARD-468 N64-18725 11-11

HEAT TRANSFER IN HONEYCOMB SANDWICH PANELS IN STRUCTURE OF AIRCRAFT AND MISSILES
ERR-FW-104 N64-18945 11-13

IDEALIZING COMPLEX AIRCRAFT STRUCTURES INTO DISCRETE ELEMENTS FOR MATRIX STRESS ANALYSIS N64-20941 14-33

LIMIT ANALYSIS FOR AIRCRAFT FUSELAGE FRAMES SUBJECTED TO SHEAR FLOW AND VERTICAL LOAD
ARC-CP-705 N64-24927 17-33

NOISE PROBLEMS OF SUPERSONIC FLIGHT AND AIRCRAFT STRUCTURE N64-24960 17-34

FABRICATION TECHNIQUES, METHODS & PROCESSES FOR PRODUCING TYPICAL AIRCRAFT SHAPES FROM BERYLLIUM
NMI-9701.15 N64-26313 18-17

EQUILIBRIUM EQUATIONS FOR FORCE CONCENTRATION AND RAYLEIGH-RITZ EQUATIONS FOR AIRCRAFT VIBRATION
AVA-64-01 N64-26752 18-33

ADHESIVES IN CONSTRUCTION AND AIRCRAFT STRUCTURES, AGE HARDENING, STRESS DISTRIBUTION, CORROSION, AND NONDESTRUCTIVE TESTING
NGLR-1/1964 N64-27228 19-20

STRUCTURAL FAILURES OF AIRCRAFT CAUSED BY FATIGUE, CORROSION, AND ABRASION
TRECOM-TR-64-36 N64-30118 21-04

SONIC BOOM EFFECTS ON LIGHT AIRCRAFT, HELICOPTERS, AND GROUND STRUCTURES
AD-602175 N64-31101 22-04

RANDOM VIBRATION IN AEROSTRUCTURES AND RELATION TO MECHANICAL FAILURE
AD-447952 N64-32361 23-33

AIRFLOW
WIND TUNNEL CAPABLE OF HYPERSONIC SPEEDS USING AIR AS WORKING FLUID
AFOSR-5329 N64-12645 04-10

AIRFLOW IN CORN PLANT-AIR LAYER FROM WIND VELOCITY MEASUREMENTS
IR-63-1 N64-12667 04-21

VENTILATING AIRFLOW EFFECT ON WATER REQUIREMENTS OF MEN WEARING PARTIALLY AND FULLY DONNED PRESSURE SUITS
SAM-TDR-63-59 N64-12855 04-16

NONEQUILIBRIUM HYPERSONIC FLOW OF AIR IN HYPERSONIC NOZZLES & AROUND BLUNT BODIES
NASA-CR-55139 N64-13188 04-02

AIR FLOWS INTO UNCONTROLLED FIRES - FIRE STORM PREVENTION AND CONTROL
RM-3909 N64-14932 06-26

NONEQUILIBRIUM AIR FLOW IN NOZZLES AT HIGH TEMPERATURE
FTD-HT-62-1278/1&2 N64-16394 08-02

AEROLOGICAL EXPLANATION OF AIR FLOW IN TROPICS BETWEEN NORTHERN AND SOUTHERN HEMISPHERES
E-T-R-63-12 N64-16486 08-21

MIXING RATE WITH AMBIENT AIR OF COLD AIRSTREAM IN CENTRIFUGAL FIELD
ARC-CP-687 N64-16532 08-11

TURBULENT MIXING PROCESS BETWEEN CARBON DIOXIDE AND HYDROGEN CENTRAL JETS EXHAUSTING INTO MOVING CONCENTRIC AIRSTREAM
PIBAL-789 N64-16657 08-11

FLOW TABLES FOR AIR PASSING AN ABRUPT AREA INCREASE OBLIQUE TO FLOW DIRECTION
ARL-64-10 N64-16797 08-11

LEAKAGE OF SUPERSONIC AIR FLOW INTO WATER THROUGH LAVAL NOZZLE N64-17178 09-02

CYLINDER DRAG FORCES IN HYPERSONIC FREE JET OF RAREFIED AIRSTREAM
AS-64-3 N64-17280 09-02

SOUND PROPAGATION IN SOUND ABSORBENT DUCTS WITH SUPERIMPOSED AIRSTREAMS
AMRL-TDR-62-140/IV/ N64-17326 09-23

EXHAUST NOZZLE TESTING USING COLD AIR FLOW TO FIND EFFECT OF EXIT DESIGN ON THRUST & JET WAKE DYNAMIC PRESSURE FOR USE IN VTOL DOWNWASH SUPPRESSION
NASA-TN-D-2263 N64-18958 11-02

AIRFLOW DIRECTION ON WING OF FLYING BIRD OBSERVED BY VANE AND SILK THREAD METHOD - AERODYNAMICS
JPRS-24357 N64-18980 11-16

NUMERICAL CALCULATIONS OF HYPERSONIC AIR FLOWS OVER POINTED AND SPHERICALLY TIPPED BODIES AT SMALL ANGLES OF YAW
AIAA PAPER-64-430 N64-23328 16-02

SHOCK TUNNEL STUDIES OF HIGH-ENTHALPY IONIZED AIRFLOWS N64-26137 18-24

MEASURING PROPERTIES OF AIR UNDER EQUILIBRIUM AND NONEQUILIBRIUM FLOW CONDITIONS N64-26141 18-11

DECELERATION OF SUPERSONIC AIRSTREAMS IN STRAIGHT PASSAGES OF CONSTANT CROSS SECTIONAL AREA
ARL-64-81 N64-26952 18-02

EFFECT OF VARIATIONS OF BOUNDARY LAYER CONDITIONS ON ATMOSPHERIC BOUNDARY LAYER
AD-429496 N64-29531 21-21

AIRFOIL
CF WING
AERODYNAMICS OF SAILS AS THIN VERTICAL AIRFOILS
TCEA-TM-16 N64-10425 01-03

AERODYNAMICS OF SAILS AS THIN VERTICAL AIRFOILS
TCEA-TM-16 N64-10425 01-03

THIN AIRFOIL WITH MINIMUM AVERAGE COEFFICIENT OF HEAT TRANSFER FOR GIVEN LIFT COEFFICIENT
RM-3410-PR N64-14326 06-02

PREDICTION OF AERODYNAMIC PENALTIES CAUSED BY ICE FORMATIONS ON VARIOUS AIRFOILS
NASA-TN-D-2166 N64-15162 07-03

FLOW OF CONDUCTING INVISCID LIQUID PAST THIN SYMMETRIC NONCONDUCTING AND NONMAGNETIC AIRFOIL IN PRESENCE OF ALIGNED MAGNETIC FIELD
AD-429930 N64-15937 07-24

AUTOMATICALLY PROGRAMMED MACHINE TOOL FOR AIRFOIL MODEL MAKING N64-18089 10-17

BOUNDARY LAYER AND CIRCULATION CONTROL ON THIN TWO-DIMENSIONAL AIRFOIL WITH SHARP LEADING EDGE N64-19862 12-02

AERODYNAMIC CHARACTERISTICS OF THIN AIRFOIL IN NONEQUILIBRIUM STREAM AT SMALL ANGLE OF ATTACK
NASA-TR-R-201 N64-21262 14-03

LIFT & MOMENT ON AIRFOIL OSCILLATING IN PITCH ABOUT QUARTER CHORD LINE IN INCOMPRESSIBLE NONCAVITATING FLOW
TM-607-2441-02 N64-21587 15-02

HYPERSONIC FLOW PAST AIRFOILS AT LARGE ANGLES OF ATTACK
NASA-TT-F-8696 N64-25051 17-03

WIND TUNNEL STUDY OF BOUNDARY LAYER CONTROL BY BLOWING ON AIRFOIL TO REDUCE DRAG
NASA-TN-D-2374 N64-25714 17-02

AERODYNAMIC CHARACTERISTICS OF WEDGE AIRFOILS
NASA-TR-R-202 N64-25811 17-03

EFFECT OF AIRFOIL CURVATURE ON SHOCK-BOUNDARY LAYER INTERACTION AND AIRFOIL PRESSURE DISTRIBUTIONS AT TRANSONIC SPEEDS
NAL-TN-AE-20-63 N64-25878 18-03

EFFECT OF SHOCK BOUNDARY LAYER INTERACTION ON AIRFOIL PRESSURE DISTRIBUTION AT TRANSONIC SPEEDS
NAL-TN-AE-16-63 N64-26754 18-02

AERODYNAMIC FORCES AND MOMENTS OF AIRFOIL PROFILES N64-27345 19-03

CALCULATION OF OPTIMUM INCIDENCES FOR AIRFOILS IN CASCADES
ARC-CP-646 N64-28986 20-03

INFLUENCE OF GROUND DEFLECTION ON AERODYNAMIC FORCES OF OSCILLATING TILTED AIRFOIL
AIAA PAPER-64-563 N64-29769 21-03

AERODYNAMIC CHARACTERISTICS OF WEDGE-SHAPED TWO-

DIMENSIONAL AIRFOILS IN SUPERSONIC VISCOUS FLOW
AS-64-8 N64-32218 23-03

AIRGLOW
SA NIGHT AIRGLOW
SA SKY BRIGHTNESS
SA SKY RADIATION
BRIGHTNESS OF DIFFUSING, CONTAMINANT GLOW CLOUDS IN UPPER ATMOSPHERE - CHEMILUMINESCENCE AND SOLAR RAY SCATTERING
MSA-84 N64-10223 01-12

PHOTOGRAPHIC INTERFEROMETRIC MEASUREMENT OF DAY AIRGLOW EMISSION OF ATOMIC OXYGEN
AFCRL-64-220 N64-16073 07-12

VARIATIONS OF HYDROXYL AND OXYGEN EMISSIONS IN INFRARED AIRGLOW N64-17006 09-23

ALL-SKY INTERFEROMETER FOR AIRGLOW STRUCTURAL STUDIES N64-17007 09-15

AURORAS AND AIRGLOW EMISSIONS DURING INTERNATIONAL GEOPHYSICAL YEAR
NASA-TT-F-117 N64-17774 09-12

CHARACTERISTICS AND PROPERTIES OF AURORA AND AIRGLOW
NASA-TT-F-202 N64-21876 15-12

SEASONAL AND ANNUAL VARIATIONS IN INTENSITY IN NIGHT AIRGLOW N64-21877 15-12

ROTATIONAL TEMPERATURE OF HYDROXYL BANDS IN AIRGLOW N64-21883 15-12

SPECTROPHOTOMETRIC OBSERVATIONS OF EMISSIONS IN AURORAE AND AIRGLOW
NASA-TT-F-201 N64-21889 15-12

OBSERVATIONS OF HYDROXYL EMISSION IN AIRGLOW SPECTRUM N64-21890 15-12

OBSERVATIONS OF AIRGLOW NEAR AURORAL ZONE N64-21893 15-12

CONTINUUM EMISSION IN AIRGLOW AND AURORAE N64-21895 15-12

SPECTROSCOPIC OBSERVATIONS OF AURORAL AND AIRGLOW EMISSIONS N64-21897 15-12

ATOMIC OXYGEN-NITRIC OXIDE REACTIONS IN REGION OF AIRGLOW
NASA-CR-67 N64-23911 16-07

AIRGLOW & REACTION BETWEEN ATOMIC HYDROGEN & OZONE IN ATMOSPHERE N64-24473 17-21

ROCKET SPECTROPHOTOMETER AIRGLOW MEASUREMENTS IN FAR ULTRAVIOLET
NASA-TN-D-2362 N64-24819 17-12

ANNOTATED BIBLIOGRAPHY ON SKY ILLUMINATION - AIRGLOW, AURORAS, NOCTILUCENT CLOUDS, ZODIACAL LIGHT, GEGENSCHEIN, AND INSTRUMENTATION
AID-B-64-42 N64-24951 17-12

ATMOSPHERIC SCINTILLATION OBSERVED AT SUNSET AT 3 CM WAVELENGTH
E-T-B-63-8 N64-25321 17-28

MARS ATMOSPHERIC AIRGLOW
NASA-RP-250 N64-26310 18-29

NARROW AND WIDEBAND PHOTOMETRY POLARIZATION OBSERVATIONS OF AIRGLOW AND ZODIACAL LIGHT
NASA-CR-56881 N64-27274 19-12

ROCKET-BORNE MEASUREMENT OF MIDLATITUDE AIRGLOW AND PARTICLE PRECIPITATION
NASA-CR-58356 N64-28755 20-12

AIRGLOW, IONOSPHERE, AURORA, GEOMAGNETISM, COSMIC RAYS, AND SOLAR ACTIVITY DATA RECEIVED BY WDC-A FROM 1 JULY 1957 TO 31 DECEMBER 1963 N64-28976 20-12

PHOTOGRAPHY OF AIRGLOW LAYER BY ASTRONAUT DURING MERCURY /MA-9/ FLIGHT N64-29342 21-12

ANOMALOUS INTENSITY INCREASE OF ATMOSPHERIC OXYGEN AIRGLOW N64-32704 24-12

RESOLUTION OF NIGHT SKY LIGHT INTO BASIC COMPONENTS OF INTEGRATED STARLIGHT, ZODIACAL LIGHT AND AIRGLOW
NASA-CR-58994 N64-33224 24-12

AIRPORT
SA HELIPORT
SA RUNWAY
CF LANDING AID
FLIGHT SEQUENCE IN SHORT-DISTANCE TRAFFIC AREA OF AIRPORTS
REPT.-62/2 N64-10986 02-22

EFFECTS OF WEATHER ON AIRPORT CAPACITY - AIR TRAFFIC CONTROL N64-11594 03-10

FUTURE SUPERSONIC TRANSPORT AIRCRAFT AND AIRPORTS
JPRS-22142 N64-11786 03-10

NATIONAL AIRSPACE SYSTEM DESIGN - AIR TRAFFIC, NAVIGATION, AIRPORT AND WEATHER CONTROL N64-11912 03-01

MODIFICATION OF TU-104A JET TRANSPORT AND DESCRIPTION OF NEW AIRFIELD IN MOSCOW
FTD-TT-63-219/1 N64-12083 03-04

DATA PROCESSING OF DELAY INFORMATION ON AIRLINES AND AIRPORTS N64-12385 03-10

RUNWAY ROUGHNESS CRITERIA AND REPAIR METHODS - AIRPORT MAINTENANCE
AGARD-416 N64-13172 04-10

TAKEOFF AND LANDING FACILITY EVALUATION
FTFF-TM-58-12 N64-14467 06-10

BIBLIOGRAPHY - PLANNING, MANAGEMENT, OPERATIONS, AND SAFETY OF AIRPORTS AND HELIPORTS N64-17490 09-10

TOPOGRAPHICAL SKETCHS, CLIMATOLOGICAL TABLES, AND ANNUAL WINDROSES FOR AIRPORTS
UAL METEOROL. CIRC. 55 N64-18404 10-21

LIGHTWEIGHT, PORTABLE RADAR APPROACH CONTROL SYSTEM FOR AUXILIARY AIRPORTS
ESD-TDR-64-185 N64-19128 11-10

WEATHER FACILITIES FOR AIR TRAFFIC CONTROL IN HIGH DENSITY AIRPORTS
RD-64-32 N64-20278 13-21

SAFETY HAZARD OF AIRCRAFT VORTEX WAKES AND PRECAUTIONS IN AIRPORT TERMINAL CONTROL
NASA-TM-X-51683 N64-20706 13-10

CLOSED CIRCUIT TELEVISION INSTALLATIONS AND USE AT PARIS-ORLY AIRPORT N64-20722 13-08

BIBLIOGRAPHY ON DESIGN, CONSTRUCTION AND MAINTENANCE OF AIRPORTS AND HELIPORTS N64-20810 14-10

EFFECTS OF AIR TRAFFIC OPERATING AT SEVERAL PROPOSED JETPORTS UPON AIR TRAFFIC CONTROL SYSTEM N64-26466 18-10

CLIMATE, TOPOLOGY, LAND USE, AND ACCESSIBILITY OF THREE AREAS FOR POSSIBLE AIRPORT SITE N64-27781 19-10

FACTORS AFFECTING FRICTION COEFFICIENT BETWEEN TIRES AND PAVEMENT SURFACES, AND PROBLEM OF SKID LANDINGS
R-303 N64-30675 22-04

CLIMATOLOGIC DATA FOR AIRPORT LANDING SYSTEMS - CLEVELAND, OHIO
RD-64-54, VOL. 13 N64-31143 22-22

CLIMATOLOGY OF PROPOSED LANDING SYSTEMS FOR MAJOR AIRPORTS - ATLANTA, GEORGIA
RD-64-54, VOL. 14 N64-31144 22-22

CLIMATOLOGY OF PROPOSED LANDING SYSTEMS FOR MAJOR AIRPORTS - NEWARK, NEW JERSEY
RD-64-54, VOL. 15 N64-31145 22-22

CLIMATOLOGICAL DATA FOR AIRPORT LANDING SYSTEMS - SAN FRANCISCO, CALIFORNIA
RD-64-54, VOL. 16 N64-31146 22-22

CLIMATOLOGICAL DATA FOR AIRPORT LANDING SYSTEMS - FORT WORTH, TEXAS
RD-64-54, VOL. 17 N64-31147 22-22

CLIMATOLOGICAL DATA FOR AIRPORT LANDING SYSTEMS - HOUSTON, TEXAS
RD-64-54, VOL. 18 N64-31148 22-22

AIRPORT LIGHT
APPROACH LIGHTING AIDS FOR AIRCRAFT LANDING
N64-14735 06-10

AIRPORT LIGHTING CONFIGURATIONS FOR RUNWAY LANDING ZONES
RD-64-25 N64-26834 18-22

AIRYS STRESS FUNCTION
S ELASTICITY
S HARMONIC FUNCTION

AKERMANITE
LOW TEMPERATURE HEAT CAPACITY & ENTROPY OF AKERMANITE, CORDIERITE, GEHLENITE, & MERWINITE
BM-RI-6343 N64-12121 03-13

ALANINE
SYNTHESIS OF OPTICALLY ACTIVE ALANINE - AMINO ACID
N64-19589 12-07

ALASKA
INFLUENCE OF HIBERNATION ON COXSACKIE VIRUS INFECTIONS IN ALASKAN GROUND SQUIRREL
AAL-TDR-63-25 N64-31935 23-16

ALBEDO
CF PLANET
SPUTTERING EFFECTS ON LUNAR SURFACE - METALLIC ENRICHMENT & ALBEDO
NASA-CR-52534 N64-10625 01-32

THERMAL NEUTRON FLUX DISTRIBUTIONS IN CONCRETE-WALLED DUCTS CALCULATED FROM ALBEDO MODEL USING MONTE CARLO TECHNIQUE
ORNL-3507 N64-14246 06-23

EDGE OF POLAR PLATEAU FOR GALACTIC COSMIC RAYS AND THEIR CHARGED ALBEDO
NASA-TN-D-2248 N64-17828 09-28

EDGE OF POLAR PLATEAU FOR GALACTIC COSMIC RAYS AND THEIR CHARGED ALBEDO
N64-18418 10-28

DIAMETERS, ELLIPTICITIES, & SPECTRAL ALBEDOS OF MERCURY, VENUS, AND MARS
NASA-CR-53507 N64-19984 12-05

ALBEDO METHOD ANALYSIS OF INTERACTION OF SUBCRITICAL SPHERICAL & CYLINDRICAL BODIES IN AIR
N64-22928 16-23

ALBEDO AND EARTH RADIATION DATA OBTAINED FROM ORBITING SOLAR OBSERVATORY EMISSIVITY SENSORS
AIAA PAPER-64-317 N64-23218 16-28

REFLECTION COEFFICIENTS AND ALBEDO OF LUNAR SURFACE
N64-24262 17-29

RELATION OF VEGETATION ALBEDO DIURNAL VARIATION TO SOLAR RADIATION SCATTERING
N64-24792 17-21

SPECTRAL ALBEDO OF VARIOUS SURFACES IN VISIBLE AND NEAR INFRARED REGIONS
N64-24793 17-21

ACTINOMETRIC OBSERVATIONS OF ALBEDO RADIATION ABSORPTION
N64-24794 17-21

SURFACE ALBEDO OF LAND AND SEA IN ARCTIC
N64-24795 17-12

DATA ANALYSIS FROM TIROS III SOLAR REFLECTANCE CHANNELS - ALBEDO
SR-3 N64-25228 17-12

ALCOHOL
ALCOHOL DEHYDRATION, LEUKOSIS IN MICE BY IONIZING RADIATION, AND DIRECT CURRENT EFFECT ON DOGS
JPRS-20153 N64-12722 04-07

ELECTRON PARAMAGNETIC RESONANCE STUDY OF ALCOHOL RADICAL FORMATION BY ULTRAVIOLET RADIATION
N64-12723 04-07

DERIVATIVES OF DIPHENYLMETHANE, PROPANOL, UNSATURATED TERTIARY ALCOHOLS, DIPHENAZIN, AND NOSTYN FOR TREATMENT OF CENTRAL NERVOUS SYSTEM
N64-15383 07-16

PROTACTINIUM EXTRACTION FROM HYDROCHLORIC ACID BY DIISOBUTYLCARBINOL N64-15660 07-07

DIOXANE SULFUR TRIOXIDE FOR QUANTITATIVE ANALYSIS OF ACTIVE HYDROGEN IN ALCOHOLS AND AROMATIC AMINES
TIL/T-5451 N64-16527 08-07

ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY OF ETHANOL AND ETHER GLASSES - RADIAL FORMATION UPON IRRADIATION
TDR-269/4240-30/-4 N64-17358 09-23

EFFECTS OF ALCOHOL AND HYPOXIA ON HETEROPHORIAS - REVIEW OF EXPERIMENTAL STUDIES
AD-433129 N64-17924 10-16

HISTOLOGICAL CHEMISTRY OF RETICULOENDOTHELIAL SYSTEM FOLLOWING INFUSION OF BLOOD EXPANDER - POLYVINYL ALCOHOL N64-18523 11-16

RADIATION-INDUCED REACTION OF THYMINE WITH ETHANOL IN DEAERATED AQUEOUS SOLUTIONS N64-19466 12-07

SYNTHESIS OF CRYSTALLINE ESTERS FROM CYCLIC ALCOHOLS AND CHEMICAL REACTIONS OF AMINES
AROD-2381-5 N64-20332 13-20

POLYVINYL ALCOHOL, SELENIUM AND TELLURIUM PAPER ELECTROCHROMATOGRAPHY, AND XYLENE SEPARATION
JPRS-25070 N64-22734 16-01

EFFECT OF FATTY ALCOHOL MONOLAYERS ON WATER DROPLETS AND CONDENSATION NUCLEI - FOG PROPERTIES
NASA-CR-52851 N64-24024 16-21

TOXICITY OF ISOALCOHOLS, HIGHER ALCOHOLS, AND MELAMINE-FORMALDEHYDE RESINS
FTD-TT-64-97/164 N64-25462 17-16

PHOTOGRAPHIC AND IONIZATION RECORDING OF X-RAY DIFFRACTION ANALYSES OF POLYVINYL ALCOHOL FIBERS
FTD-TT-64-319/1&2&4 N64-25469 17-19

COLLISIONS IN GASES, MAGNETIC SUSCEPTIBILITY OF BERYLLIUM, REACTIONS OF ALLYLIC ALCOHOLS, ACTIVITY COEFFICIENTS, BIOLOGICAL EFFECTS OF RADIATION, AND ECOLOGY OF DRAINAGE AREA
NASA-CR-58839 N64-33048 24-07

ALDEHYDE
ULTRAVIOLET ABSORPTION SPECTRUM OF TETROL-ALDEHYDE - MOLECULAR ORBITAL THEORY OF DICHLORO-ETHYLENES - MICROWAVE SPECTROSCOPY
UCRL-11229 N64-18995 11-23

REACTION OF ALLYL ALDEHYDE WITH PHOSPHORUS TRICHLORIDE N64-23005 16-07

ALFVEN WAVE
CF MAGNETOHYDRODYNAMICS
CREATION, PROPAGATION, AND DETECTION OF ALFVEN WAVES IN PARTIALLY IONIZED, LOW DENSITY MEDIUM
AFCRL-63-782, VOL. 1 N64-16063 07-24

PROPAGATION AND DETECTION OF ALFVEN WAVES - MAGNETOHYDRODYNAMICS
AFCRL-63-782, VOL. 3 N64-16065 07-24

ALFVEN THEORY FOR INTERPRETING VAN ALLEN BELTS AND MOTION OF CHARGED PARTICLES IN MAGNETIC FIELD
AFCRL-64-226 N64-16491 08-28

ALFVEN WAVES IN NONUNIFORM PLASMA

UCRL-7721 N64-26878 18-24

FINITE LARMOR ORBIT RADIUS EFFECT ON INSTABILITY OF ALFVEN IONIC WAVE
IPPJ-28 N64-33498 24-24

ALFVEN WAVE PROPAGATION IN COLLISIONLESS PLASMA WITH EXTERNAL MAGNETIC FIELD
NASA-TM-X-55083 N64-33635 24-24

ALGAE
SA CHLORELLA
CULTIVATION OF UNICELLULAR GREEN ALGAE TO OBTAIN PROTEIN RICH BIOMASSES
JPRS-17433 N64-10476 01-16

FEASIBILITY OF OXYGEN PRODUCTION BY ALGAE FOR NUCLEAR SUBMARINES
NRL-5954 N64-10551 01-16

OXYGEN PRODUCTION BY ALGAE IN SMALL CULTURE UNIT
NRL-5979 N64-10557 01-16

INTERRELATION OF PROTOCOCCAL ALGAE CULTURES AND SALMONELLA THYPIMURIUM
JPRS-18092 N64-11211 02-16

CELL DEATH RATE AND DEAD CELL CONTENT OF GROWING CULTURES OF ALGAE IN MINERAL MEDIA, AND MATHEMATICAL EXPLANATION
JPRS-19286 N64-11216 02-16

IDENTIFICATION OF CELL WALL SUBSTANCES IN ALGAE & FUNGI - SPACE FOOD FOR ASTRONAUTS
AMRL-TDR-63-72 N64-11461 03-16

ORGANIC SYNTHESIS BY GREEN, HIGH TEMPERATURE ALGAE IN VARIOUS DEVELOPMENTAL STAGES
N64-12001 03-16

ALGAE FOR HUMAN NUTRITION AND CALCIUM & PHOSPHORUS USED TO REDUCE STRONTIUM-90 CONTENT OF RAT SKELETON
JPRS-22295 N64-12442 04-16

LITERATURE SURVEY - USE OF UNICELLULAR ALGAE FOR HUMAN NUTRITION N64-12443 04-16

CHEMICAL COMPOSITION AND DIGESTIBILITY OF ALGAL CELL WALLS
IITRI-L6002-4 N64-15586 07-16

ECOLOGIC RELATIONSHIPS BETWEEN BACTERIA AND ALGAE IN PHOTOSYNTHETIC GAS EXCHANGERS
NASA-CR-55423 N64-16325 08-16

OPTIMUM ENVIRONMENTAL CONDITIONS FOR GROWTH OF STRAINED MARINE ALGAL FLAGELLATES
SAM-TDR-63-91 N64-16643 08-16

PHYSIOLOGY AND BIOCHEMISTRY OF PLANTS - EFFECT OF INDOLYL ACETIC ACID AND INDOLYL BUTYRIC ACID ON ALGAE
FTD-MT-63-49 N64-18672 11-16

PHOTOSYNTHETIC VARIABILITY IN ALGAE CELLS
N64-19495 12-16

CARBOHYDRATES, PROTEINS, AND LIPID CHEMISTRY OF BLUE-GREEN ALGAE
FTD-TT-63-193/1 N64-23296 16-16

NITROGEN-FIXATION, CHLOROPHYLL, AND TEMPERATURE CONTROL STUDIES IN ALGAE AND MICROORGANISMS
FTD-TT-63-1016/1&2 N64-23655 16-16

OPTIMAL CONCENTRATION OF METALS AND RADICALS ON GROWTH AND NITROGEN FIXATION OF BLUE-GREEN ALGAE - BOTANY N64-23656 16-16

SUSPENSION OF UNICELLULAR ALGAE AS COMPONENT OF CLOSED CYCLE FOR CREATION OF NORMAL HUMAN ACTIVITY CONDITIONS IN LONG-TERM SPACE FLIGHTS
N64-23768 16-16

AUTOMATIC CONTROL OF ALGAL CULTIVATION CONDITIONS
N64-23779 16-16

ALGAL CELL BUFFERING ACTIVITY & EFFECT ON CELL DIVISION N64-24008 16-16

SELF-PURIFICATION OF CESIUM 137 FROM WATER AND CHEMICAL COMPOSITION OF ALGAE
JPRS-26056 N64-29032 21-16

CHEMICAL COMPOSITION OF VARIOUS ALGAE SPECIES
N64-29034 21-16

EXTRACELLULAR POLYSACCHARIDE PRODUCED BY ALGAE AND INFLUENCE ON RECYCLING IN LIFE SUPPORT SYSTEM
N64-29722 21-16

OPTIMUM LIGHT ARRANGEMENT FOR PROMOTING ALGAE GROWTH, WASTE TREATMENT UNIT DEVELOPMENT, AND MICROTERELLA ADVANCED MODEL DESCRIPTION
SERL-64-5 N64-29906 21-16

QUANTITATIVE ANALYIS OF POLYSACCHARIDES PRODUCED BY FRESH WATER ALGAE N64-33019 24-16

POSSIBLE SYNTHESIS OF ARTIFICIAL FOODS FROM ALGAE
NASA-TT-F-9146 N64-33407 24-16

ALGEBRA
SA BOOLEAN ALGEBRA
ALGEBRAIC AND TOPOLOGICAL ASPECTS OF TOPICS FROM GROUP THEORY AND MODERN ANALYSIS
URPA-1 N64-10191 01-20

SOLUTION OF ALGEBRAIC EIGENPROBLEM FOR IBM 7074 COMPUTER
IS-748 N64-10222 01-20

ANALOG COMPUTER METHOD OF MODELING DIFFERENTIAL EQUATIONS WITH BOUNDARY CONDITIONS AND SYNTHESIS OF ELECTRONIC MODELS FOR ALGEBRAIC OBJECTS
JPRS-19563 N64-10831 02-20

RESULTS AND OPEN PROBLEMS OF ALGEBRAIC NATURE IN APPROXIMATION THEORY N64-13424 05-20

NEW METHODS OF SOLVING ALGEBRAIC EQUATIONS OF HIGHER DEGREES
AFCRL-63-560 N64-14661 06-20

ALGEBRAIC DEMONSTRATION OF FACTORING OF POLYNOMIAL EXPRESSION TO OBTAIN QUADRATIC ROOT
AFCRL-63-533 N64-14699 06-20

MONADIC ALGEBRA FOR STUDY OF AUTOMATA
AROD-4049-3 N64-16505 08-20

SOLUTION OF ALGEBRAIC POLYNOMIALS BY ROOT FINDING MATHEMATICAL TABLES
AFCRL-63-559/1/ N64-16816 08-20

ALGEBRAIC EQUATION SOLUTIONS - POWER TABLE AND POLYNOMIAL TABLES
AFCRL-63-559/2/ N64-16817 08-20

GROUP THEORY - ALGEBRAIC GENERALIZATION OF AUTOMATON OF REGULAR EVENTS
AROD-4049-4 N64-16844 08-20

STRONG AND WEAK REDUCIBILITY OF ALGORITHMIC PROBLEMS OF ALGEBRAIC, NUMBER THEORY, TOPOLOGY, AND MATHEMATICAL LOGIC SOLVABILITY.
JPRS-23760 N64-17246 09-20

VALUE-REGION PROBLEM OCCURRING IN CONTINUED FRACTION THEORY - ALGEBRA
MRC-419 N64-17623 09-20

SYMMETRY OF ALGEBRAIC CLOSURE IN GRADUATED FIELDS OF MEROMORPHIC FUNCTIONS
MRC-468 N64-21156 14-20

SOLUTION OF ALGEBRAIC EQUATIONS OF N-POWER WITH POSITIVE REAL ROOTS
FTD-TT-63-1032/1&2 N64-23436 16-20

ALGEBRAIC OPERATION ON UNITS IN COMPLEX SYSTEMS
N64-26377 18-20

ACCURATE ALGORITHM FOR SOLUTION OF SIMULTANEOUS LINEAR ALGEBRAIC EQUATIONS
TR-26 N64-27545 19-20

CONTROL SYSTEM DESCRIBED BY ALGEBRAIC LOGIC - COMPLEXITY OF BLIND AND MINIMAL DISJUNCTIVE NORMAL FORMS N64-29734 21-20

ALGEBRAIC PROPERTIES OF EXTERIOR DIFFERENTIAL SYSTEMS - PROLONGATION OF CARTAN FUNCTIONS
TR-22 N64-30181 21-20

ALGEBRAIC STRUCTURE OF MANY-BODY PROBLEM
NASA-CR-111 N64-31207 22-20

BANACH ALGEBRA AND CONVOLUTION SEMIGROUPS
AD-602024 N64-31555 23-20

THEOREM PROVING IN COMMUTATIVE ALGEBRAS - HOPF ALGEBRA
AROD-1913-6 N64-31654 23-20

ALGEBRAIC STUDY OF EVENT AUTOMATA
AROD-4049-6 N64-31656 23-20

MULTIVALUED HOMOMORPHIC MAPPINGS AND SUBDIRECT COVERS OF PARTIAL ALGEBRA
NRC-493 N64-31901 23-20

ALGEBRAIC TABULATION OF CLEBSCH-GORDAN COEFFICIENTS OF UNITARY SYMMETRY
UR-875-56 N64-33070 24-23

FUNCTIONAL COHOMOLOGY OPERATIONS AND RELATIONS - STEENROD ALGEBRA
AROD-2799-6 N64-33572 24-20

LIE ALGEBRA THEORIES AND EFFECTS OF PERTURBING RANDOM COUPLING IN COUPLED MODE SYSTEMS
IR-6 N64-33786 24-20

ALGOL

PROGRAMMING MANUAL FOR USE OF CONTROL DATA 1604 COMPUTER USING ALGOL COMPILER
ORNL-3460 N64-15338 07-20

CONVERTER FOR TRANSLATION OF ALGOL 60 PROGRAMS INTO MACHINE LANGUAGE
JPRS-23955 N64-17714 09-20

SURVEY OF ALGOL-LIKE OR CONTEXT-FREE LANGUAGES
TR-738-006-00 N64-20160 13-20

TRANSLATOR COMPUTER PROGRAM FOR TRANSLATION OF ALGOL LANGUAGE PROBLEMS
ORNL-3592 N64-25525 17-20

ALGORITHM

CYBERNETIC METHOD FOR PROGNOSIS OF BURN INJURY BY ALGORITHM OPERATION N64-10007 01-16

ALGORITHMIC PROBLEMS IN PARTIALLY ORDERED GROUPS
JPRS-21898 N64-10352 01-20

ALGORITHMIC SIMULATION FOR ANALYSIS OF INDIVIDUAL QUEUEING SYSTEMS AND PRODUCTION PROCESSES BY COMPUTER
JPRS-19621 N64-10511 01-20

CONTROL AND REGULATION, ALGORITHMIC DESCRIPTION, AUTOMATED REPAIR, AND AUTOMATION - CYBERNETICS
JPRS-18569 N64-10778 02-01

REDUCTION OF ARBITRARY REAL SQUARE MATRIX TO TRI-DIAGONAL FORM USING SIMILARITY TRANSFORMATION BY NEW ALGORITHM N64-10975 02-20

ALGORITHM FOR TEACHING UNIVERSAL COMPUTER TO RECOGNIZE IMAGES OF SIMPLE GEOMETRIC FIGURES - TWO-STAGE PERCEPTRON N64-11030 02-20

ALGORITHM COMPUTER PROGRAM FOR DISCERNING SENTENCE MEANING AND SENSE-MAKING N64-11031 02-20

ALGORITHM COMPUTER PROGRAM WITH VARIABLE PARAMETERS FOR LEARNING TO RECOGNIZE CONFIGURATIONS N64-11032 02-20

GENERAL PURPOSE, COMPUTER CONTROLLED SCANNING INSTALLATION FOR INVESTIGATION OF IMAGE RECOGNITION ALGORITHMS N64-11036 02-20

DEBATE ON ALGORITHMICAL APPROACH TO ANALYSIS OF TEACHING METHODS
JPRS-22075 N64-11270 02-16

ALGORITHM FOR RECOGNITION AND CLASSIFICATION OF OBJECTS DESCRIBED BY DISCRETE PARAMETERS INTO TWO GROUPS
MH-TRANS-429 N64-11574 03-20

ALGORITHM OF MINIMIZATION OF INCOMPLETELY SPECIFIED LOGICAL FUNCTIONS - COMPUTER PROGRAM N64-11615 03-20

DANTZIG QUADRATIC PROGRAMMING ALGORITHM FOR SOLUTIONS USING MEDIUM-SIZED DIGITAL COMPUTER
AD-423332 N64-13245 04-20

OPTIMALITY FROM OPPOSITE SIGN THEOREM USED AS ALGORITHM IN EXTREME POINT SOLUTION
ONR MEMO-84 N64-13857 05-20

ALGORITHM TO COMPUTE TIME-OPTIMAL CONTROL FUNCTIONS FOR ROCKET BOOSTERS
NASA-CR-55350 N64-14154 04-20

APPROXIMATION OF PARTIAL DIFFERENTIAL EQUATION BY HIGHER-ORDER DIFFERENCE ALGORITHM
RM-3917-ARPA N64-14774 06-20

MAPPING ONE SET BINARY SEQUENCES INTO ANOTHER SET BY MULTILEVEL LOGIC
MH-TRANS-410 N64-14807 06-20

ALGORITHM FOR DOCUMENTARY ANALYSIS & COMPUTER PROGRAMS FOR IBM 650 N64-14914 06-20

ALGORITHM THEORY FOR APPLICATION TO CONSTRUCTIVE PROCESSES AND SYNTHESIS OF DIGITAL AUTOMATA
NIJS-R-418 N64-15839 07-20

ALGORITHM FOR CONSTRUCTION OF RELAY SCHEMES
FTD-TT-63-59/162 N64-16355 08-20

ALGORITHMS TO FIND EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRICES N64-16683 08-20

ALGORITHM FOR COMPUTER GENERATION OF PSEUDORANDOM PERMUTATIONS OF NUMBERS
ONR-RM-93 N64-16864 08-20

STRONG AND WEAK REDUCIBILITY OF ALGORITHMIC PROBLEMS OF ALGEBRAIC, NUMBER THEORY, TOPOLOGY, AND MATHEMATICAL LOGIC SOLVABILITY.
JPRS-23760 N64-17246 09-20

ALGORITHM EMPLOYING JACOBI-LIKE PROCEDURE FOR DIAGONALIZING A REAL SYMMETRIC MATRIX N64-17560 09-20

OPERATIONS RESEARCH - COMPUTER PROGRAMMING AND ALGORITHMS
ORC-63-23/RN-4/ N64-18926 11-20

GEOMETRIC INTERPRETATION OF ALGORITHM FOR COMPUTER PROGRAMMING - OPERATIONS RESEARCH N64-18927 11-20

APPLICATION OF ALGORITHM TO TRANSPORTATION PROBLEM TO MAXIMIZE FLOW THROUGH NETWORK - OPERATIONS RESEARCH N64-18928 11-20

ALGORITHM FOR SOLVING PROBLEM OF MAXIMIZING SYSTEM RELIABILITY UNDER MULTIPLE LINEAR CONSTRAINTS
D1-82-0253 N64-19092 11-20

LINEAR PROGRAMMING ALGORITHMS FOR APPROXIMATION OF MANY VARIABLE FUNCTION OVER FINITE POINT SET N64-20959 14-20

OPERATIONS RESEARCH ALGORITHM FOR ACTIVITY ALLOCATION TO MINIMIZE TOTAL PROJECT DURATION
ORC-64-3/RR/ N64-21068 14-20

MATHEMATICS - ALGORITHMS FOR SOLUTIONS TO HOMEOMORPHIC PROBLEMS
FTD-TT-64-125/164 N64-22156 15-20

ALGORITHM FOR LARGE BLOCK PROGRAMMING SYSTEMS N64-23397 16-20

ALGORITHM FOR SOLVING TRANSPORT PROBLEMS IN LINEAR PROGRAMMING
FTD-TT-62-1498/1 N64-23399 16-20

ALGORITHM FOR COMPUTER SOLUTION TO BOUNDARY PROBLEMS
FTD-TT-63-1078/1&2 N64-23673 16-20

ALGORITHM FOR MINIMIZATION OF MICROPROGRAM SCHEMES
N64-24687 17-09

ALGORITHM FOR RECOGNITION OF OBJECTS WITH MANY PARAMETERS N64-26380 18-20

ALGORITHM OF PROBLEM OF DEFINITION OF OPTIMAL PARAMETERS OF CONTROL SYSTEMS BY GRADIENT METHOD
N64-26388 18-09

MISMATCH ERRORS AND LAW ALGORITHMS FOR SELF-TUNING SYSTEM N64-26394 18-09

ALGORITHM - ELEMENTARY FUNCTIONS BY CONTINUED FRACTIONS
NASA-RP-261 N64-26458 18-20

CONVERSION OF LOGICAL SCHEMES OF ALGORITHMS TO BOOLEAN FUNCTIONS FOR CONTROL CIRCUIT STRUCTURE
NASA-TT-F-9006 N64-27327 19-20

ACCURATE ALGORITHM FOR SOLUTION OF SIMULTANEOUS LINEAR ALGEBRAIC EQUATIONS
TR-26 N64-27545 19-20

ELEMENTRY ALGORITHMS IN NUMERICAL SOLUTION OF WEATHER FORECASTING PROBLEM N64-27935 20-21

ALGORITHM FOR SOLVING SERIAL LINEAR SYSTEMS
SC-R-64-190 N64-28271 20-20

QUOTIENT-DIFFERENCE /QD/ ALGORITHM FOR FINDING ROOTS OF POLYNOMIAL EQUATION WITH ALL ROOTS POSITIVE
CS9 N64-30057 21-20

RELATIONSHIP OF ALGORITHMIC AND GENERAL RECURSIVE FUNCTIONS
FTD-TT-64-276/1 N64-30107 21-20

ALGORITHMIC APPROACH TO ANALYSIS OF LEARNING PROCESSES AND PROBLEM SOLVING N64-30324 22-14

CHARACTERISTIC FUNCTIONAL EQUATION USED AS ALGORITHM IN DYNAMIC PROGRAMMING
RM-3661-PR N64-31038 22-20

COMPUTER ALGORITHM FOR ANALYZING IMPULSE ACTIVITY OF CENTRAL NEURONS N64-31538 23-16

GRADUATED LOGARITHMIC FIELDS AND STABILITY - APPLICATION TO ALGORITHMS FOR ASYMPTOTIC STUDIES OF DIFFERENTIAL EQUATIONS
MRC-489 N64-31961 23-20

ALGORITHMS FOR CALCULATION OF CHARACTERISTIC ROOTS AND VECTORS OF NORMALIZABLE MATRIX
ORNL-3688 N64-33440 24-20

LANGUAGE AND ALGORITHM FOR ABSTRACT SYNTHESIS OF SEQUENTIAL MACHINE - SYSTEMS DESIGN
NASA-TT-F-260 N64-33481 24-20

ALGORITHM FOR DETERMINING OPTIMAL WAYS OF SCHEDULING MULTIPLE OPERATIONAL PROBLEMS
PNR-TM-63-6 N64-33986 24-20

ALIGNMENT
ANALYSIS & DESIGN OF STABILIZED PLATFORM ALIGNMENT LOOP FOR PERSHING GUIDANCE & CONTROL SYSTEM
RG-TR-63-26 N64-13808 05-22

MISALIGNMENT AND QUADRUPOLE ERROR EFFECTS IN FOCUSING SYSTEM FOR TWO-MILE ACCELERATOR
SLAC-11 N64-20664 13-23

ALIGNMENT OF GYRO-STABILIZED PLATFORM OF HORIZONTAL INERTIAL SYSTEM N64-24520 17-15

SELF-ALIGNING AIRFRAME BEARINGS FOR AEROSPACE VEHICLES
QRP-2 N64-30161 21-17

SELF-ALIGNING BEARING MOUNTINGS FOR OPERATION IN SPACE ENVIRONMENT
QPR-3 N64-31290 22-17

SELF-ALIGNING BEARING MOUNTINGS FOR AEROSPACE VEHICLE
QPR-1 N64-32360 23-17

SOLAR RADIO EMISSION FOR ANTENNA ALIGNMENT AND COMPUTER PROGRAM FOR SOLAR TRACKING ANGLES
EDL-M690 N64-32561 23-08

ALKALI
OXIDATION TESTING, CELLOPHANE DEGRADATION AND MODIFICATION, AND DIFFUSION RATE OF SILVER IONS - ALKALINE BATTERY SEPARATOR
NASA-CR-52491 N64-10368 01-19

EVALUATION OF ALKALINE BATTERY SEPARATOR MATERIALS
NASA-CR-52478 N64-10369 01-19

SYNTHESIS AND PROPERTIES OF POLYMERS OF NITROGEN-ALKALI DERIVATIVES OF CYCLIC SILAZANES
NASA-CR-52971 N64-11802 03-07

CYCLE-LIFE TESTING OF ALKALINE BATTERIES
ASD-TDR-63-394 N64-12325 03-20

IMPROVED LOW TEMPERATURE ALKALINE MANGANESE DIOXIDE PRIMARY CELL
AD-423090 N64-12829 04-06

ALKALINE BATTERY EVALUATION - CYCLE LIFE PERFORMANCE & FAILURE ANALYSIS
RTD-TDR-63-4144 N64-14962 06-06

EFFECTS OF IMPURITIES ON PHOTOTHERMOTROPIC PROPERTIES OF ALKALINE EARTH TITANATES
NASA-TN-D-2306 N64-21270 14-07

TESTING OF ZINC-ALKALINE-MERCURIC OXIDE PRIMARY CELLS AND BATTERIES
REPT.-7 N64-27851 19-06

EFFECTS OF ALKALI TREATMENT AND GAMMA RADIATION ON PYROLYSIS OF POLYTRIFLUOROETHYLENE
N64-28681 20-07

ALKALI HALIDE
MERCURY CELL FOR MODULATION INDUCING RETRO-DIRECTIVE OPTICAL SYSTEM /MIROS/, AND ALKALI HALIDE CRYSTALS
NASA-CR-55250 N64-13496 05-23

INTRINSIC PHOTOCONDUCTIVITY IN THIN FILMS OF ALKALI HALIDES
AROD-204-8 N64-14167 05-19

STRUCTURE PRINCIPLES OF X-RAY K-ABSORPTION EDGE OF ATOMS IN CRYSTALS OF POTASSIUM HALIDES
N64-16220 08-23

OXIDIZER RESEARCH - THERMOCHEMICAL DATA, INTRAMOLECULAR INTERACTION, AND REPULSIVE ENERGY IN ALKALI HALIDES
S-13907 N64-17783 09-26

THERMOLUMINESCENT KINETICS OF ALPHA IRRADIATED ALKALI HALIDES
NASA-RP-177 N64-21303 14-25

CONDUCTANCE OF ALKALI HALIDES IN WATER-GLYCEROL AND IN WATER-ETHYLENE GLYCOL MIXTURES
AD-432997 N64-21393 14-07

MAGNETIC PROPERTIES OF COLOR CENTERS IN ALKALI HALIDE CRYSTALS
ONR-TR-7 N64-25895 18-07

OPTICAL PROPERTIES OF ALKALI HALIDES UNDER VACUUM ULTRAVIOLET RADIATION
NASA-CR-58134 N64-26595 18-25

WAVELENGTH, LIFETIME, AND RELATIVE INTENSITY OF FLUORESCENCE OF MANGANESE DIFLUORIDE AND ALKALI MANGANESE TRIFLUORIDES N64-27995 20-25

ALKALI HALIDE PURIFICATION AND CHARACTERIZATION OF ULTRAPURE SOLIDS
QR-4 N64-30134 21-07

HIGH FIELD TRANSPORT IN ALKALI HALIDE INSULATORS
AROD-4017-4 N64-31118 22-25

DEFORMATION BEHAVIOR, DISLOCATION VELOCITY MEASUREMENTS, STRAIN RATE SENSITIVITY, AND YIELD POINT PHENOMENA IN VARIOUS MATERIALS - FLOW STRESS OF PURE AND DOPED ALKALI HALIDES
ARL-64-135 N64-33955 24-25

ALKALI METAL
SA CESIUM
SA LITHIUM
SA POTASSIUM
SA RUBIDIUM
SA SODIUM
ANALYSES FOR OXYGEN IN LIQUID ALKALI METALS
NASA-CR-52184 N64-10088 01-18

ALKALI METAL VAPOR ARC TUNNEL TO STUDY COLLISION PROCESSES IN GASES BEHIND STRONG SHOCK WAVES
NOLTR-63-105 N64-11745 03-15

NONEQUILIBRIUM EXPANSION OF ALKALI-METAL PLASMAS PASSED THROUGH THERMIONIC DIODE
NASA-TN-D-2086 N64-11791 03-24

VAPOR PRESSURE OF ALKALI METALS AT HIGH TEMPERATURES N64-11974 03-10

CHARGING TIME IN APPLIED ELECTRIC FIELD FOR ALKALI METALLIC COLLOIDS
NASA-TN-D-2078 N64-12106 03-23

SOLUBILITY OF ALKALI METAL DINONYLNAPHTHALENE SULFONATES IN SOLVENTS OF VARYING POLARITY AND SOLUBILITY THEORY OF OIL-SOLUBLE SOAPS
NRL-6010 N64-12832 04-07

EVALUATION OF REFRACTORY METAL ALLOYS FOR ALKALI METAL SPACE ELECTRIC POWER SYSTEMS
NASA-CR-52347 N64-13012 04-18

HEAT TRANSFER - ENTROPY OF ALKALI METALS AND HEAT FLOW DEPENDENCE ON SURFACE FINISH
FTD-TT-63-452/1&2&4 N64-17189 09-13

ENTROPY AND HEAT CAPACITY OF ALKALI METALS IN FUSED STATE N64-17190 09-13

GENERAL PURPOSE TEST RIG FOR ALKALI METAL LUBRICATED BEARINGS AND DESIGN AND FABRICATION OF JOURNAL BEARINGS
R-5438, PT. 1 N64-17653 09-17

LIQUID ALKALI METALS USED AS HEAT TRANSFER MEDIUM OR MOTIVE FLUID FOR POWER CONVERSION SYSTEMS
ASD-TDR-63-703 N64-18925 11-18

CERAMIC COATINGS FOR INSULATED WIRES EXPOSED TO ALKALI METAL VAPORS - CORROSION PREVENTION
APL-TDR-64-42 N64-19736 12-19

ENERGY CONVERSION BY LIQUID METALS & ALKALI METALS IN MAGNETOHYDRODYNAMIC GENERATORS AND THERMIONIC ENERGY CONVERSION
AD-436857 N64-20159 13-06

ATOMIC BEAMS OF ALKALI ATOMS IN ELECTRON VOLT ENERGY RANGE - LITHIUM ATOM BEAM
TR-19 N64-20172 13-24

LIQUID ALKALI METAL REACTION WITH NONMETALLIC SOLIDS - CERAMICS N64-20794 14-19

GRAPHITE IN LIQUID ALKALI METAL SYSTEMS N64-20795 14-19

COMPATIBILITY TESTS WITH ALKALI METALS - CORROSION STUDIES N64-20803 14-07

ALKALINE CELLS & BATTERIES - ZINC-ALKALINE MERCURIC OXIDE SYSTEM
AD-439454 N64-21315 14-06

SOLUBILITY AND DIFFUSION STUDIES OF TRANSITION ELEMENTS IN LIQUID ALKALI METALS
AI-64-75 N64-21476 14-18

ELECTRON RESONANCE ABSORPTION OF GAMMA IRRADIATED ALKALI METAL HYDROXIDE GLASSES
AD-433045 N64-21748 15-18

KINETICS OF THERMAL & PHOTOCHEMICAL DECOMPOSITION OF SOME ALKALI METAL AZIDES
AD-432035 N64-22207 15-19

ALKALI METAL ANODES IN LIQUID SULFUR DIOXIDE ELECTROLYTIC SOLUTIONS N64-22884 16-06

ELECTROSYNTHESIS OF OZONE AND POLAROGRAPHIC STUDY OF BOROHYDRIDES OF ALKALI METALS
FTD-TT-62-1462/1&2&4 N64-23662 16-07

WELDABILITY AND TEMPERATURE STABILITY STUDIES OF REFRACTORY METAL ALLOYS FOR ALKALI-METAL SPACE ELECTRIC POWER SYSTEMS
NASA-CR-54088 N64-25764 17-18

ELECTROMAGNETIC ALKALI METAL PUMPS IN SPACE ELECTRIC POWERPLANT
NASA-CR-54036 N64-25903 18-06

BOILING & CONDENSING HEAT TRANSFER DATA FOR ALKALI METALS
NASA-CR-54037, VOL. 2 N64-25904 18-13

PLASMA DENSITY FALL-OFF WITH PASSAGE OF CURRENT IN THERMALLY IONIZED ALKALI PLASMAS - PLASMA LOSSES IN Q-DEVICE
MATT-284 N64-26700 18-24

CORROSION MECHANISMS IN REFRACTORY METAL-ALKALI METAL SYSTEMS N64-27587 19-18

SOLUBILITY AND DIFFUSION OF ULTRAPURE TRANSITION ELEMENTS IN ULTRAPURE ALKALI METALS
NASA-CR-54094 N64-28087 20-18

EXPANSION AND CONDENSATION BEHAVIOR OF ALKALI METAL AND MERCURY VAPORS FLOWING THROUGH NOZZLES
NASA-TN-D-2475 N64-28234 20-13

FATIGUE TEST OF NIOBIUM ZIRCONIUM ALLOY IN ALKALI METAL ENVIRONMENT IN SPACE POWER UNIT REACTOR
ASD-TDR-63-270, PT. IV N64-29310 21-18

HIGH TEMPERATURE ALKALI METAL RESISTANT INSULATION
WAED-64-39-E N64-30053 21-17

SECONDARY ION EMISSION DURING METAL BOMBARDMENT BY LOW ENERGY IONS
FTD-TT-64-544/1&2&4 N64-30486 22-23

CONDUCTANCE OF ALKALI METAL SULFONATES IN POLAR ORGANIC SOLVENTS
NRL-6116 N64-30681 22-07

ARC HEATED LIQUID SODIUM AS WORKING GAS FOR AERODYNAMIC WIND TUNNEL - ALKALI METAL ARC TUNNEL
NOLTR-64-82 N64-30979 22-10

WELDING OF REFRACTORY METAL ALLOYS FOR USE IN ALKALI-METAL SPACE ELECTRIC POWER SYSTEMS
NASA-CR-54166 N64-31455 23-18

DEVELOPMENT OF HIGH CURRENT, HIGH TEMPERATURE, ALKALI METAL VAPOR-FILLED CERAMIC THYRATRONS AND RECTIFIERS
NASA-CR-54181 N64-32690 23-09

BROMINE TRIFLUORIDE METHOD FOR DETERMINATION OF OXYGEN CONTENT IN LIQUID ALKALI METALS
NASA-CR-58942 N64-33098 24-10

ALKALOID
S ATROPINE
S MORPHINE

ALKANE
HYDROCARBON ANALYSIS FOR DETECTION OF LIFE IN SPACE - GAS CHROMATOGRAPHY OF ALKANES
NASA-CR-50703 N64-22761 16-16

HYDROCARBON ANALYSIS AS MEANS OF DETECTING LIFE IN

SPACE - ABIOTIC, BIOLOGICAL, SEDIMENTAL, AND METEORITIC ALKANES
NASA-CR-58500 N64-29202 21-16

GAMMA RADIATION EFFECTS ON CYCLIC ALKANES AND ALKENES
USNRDL-TR-691 N64-31293 22-07

SYNTHESIS OF CYCLOALKANONE ALKYLHYDRAZONES AND FACTORS INFLUENCING ISOMERIZATION TO CYCLOALKANE AZO ALKANES
GNE/PHYS/64-15 N64-33887 24-07

ALKYD
ADAPTATION AND EXTENSION OF INFRARED ABSORBANCE RATIO METHOD FOR ESTIMATION OF VACUUM DRIED FILMS OF NITROGEN RESIN MODIFIED PHTHALIC ALKYD RESINS
CCL-153 N64-16464 08-17

ALKYL
THERMOCHEMISTRY OF BORON, TIN, AND GERMANIUM ALKYLATES
FTR-2 N64-14361 06-07

ANODIC BEHAVIOR OF ZINC, MERCURY, AND SILVER IN SELECTED AQUEOUS MEDIA - SYNTHESIS OF BERYLLIUM DI-ALKYLS
NASA-CR-55568 N64-15549 07-06

MASS SPECTROMETER STUDY OF ALKANE-SULFUR AROMATIC COMPOUNDS - ALKYLTHIOPHENES
BM-RI-6433 N64-21609 15-07

INFRARED GAS SPECTROSCOPY OF ALKYL HALIDES
AROD-3895-3 N64-32025 23-23

THERMOCHEMISTRY OF ALKYLS OF TIN AND GERMANIUM
AD-448759 N64-32459 23-07

INTERACTION OF HEXAALKYLDISILAZANES WITH CARBOXYLIC ACIDS AND DIATOMIC PHENOLS
RSIC-264 N64-32485 23-07

THERMOCHEMISTRY OF ALKYLS OF TIN AND GERMANIUM
OTSR-3 N64-32506 23-07

ALKYLATE
FORMATION OF FATTY ACIDS BY OXIDATION OF ALKYLATED GASOLINE FRACTION
FTD-MT-64-02 N64-31915 23-07

ALKYLATION
ORGANIC REACTIONS PRODUCING FUELS - ALKYLATION & OXIDATION
FTD-TT-62-1185/1&2&4 N64-11156 02-07

ALKYLATION OF METHYLCYCLOHEXANE WITH OLEFINS AT HIGH TEMPERATURE AND PRESSURE N64-11157 02-07

ALKYLATING TETRAHYDRONAPHTHALENE IN THE ALIPHATIC RING BY OLEFINS N64-11158 02-07

ALL-SKY PHOTOGRAPHY
ERRORS IN MEASUREMENTS OF AURORAL POSITIONS BASED ON ALL-SKY PHOTOGRAPHS N64-32719 24-12

ALL-SKY CAMERA FOR PHOTOGRAPHY OF AURORAE N64-32720 24-12

RADIOWAVE ABSORPTION EVENTS IN AURORAL ZONE - ANALYSIS OF MAGNETOMETER, RIOMETER, AND ALL-SKY CAMERA DATA
NASA-CR-59342 N64-33810 24-28

ALLERGY
S IMMUNOLOGY

ALLOY
SA ALUMINUM ALLOY
SA ANTIMONY ALLOY
SA BERYLLIUM ALLOY
SA BINARY ALLOY
SA BISMUTH ALLOY
SA BORON ALLOY
SA CADMIUM ALLOY
SA CERMET
SA CHROMIUM ALLOY
SA COBALT ALLOY
SA COPPER ALLOY
SA EUTECTIC ALLOY
SA GALLIUM ALLOY
SA GERMANIUM ALLOY
SA GOLD ALLOY
SA HAFNIUM ALLOY
SA HIGH STRENGTH ALLOY
SA HIGH TEMPERATURE ALLOY
SA INDIUM ALLOY
SA IRON ALLOY
SA LANTHANUM ALLOY
SA LEAD ALLOY
SA LITHIUM ALLOY
SA MAGNESIUM ALLOY
SA MANGANESE ALLOY
SA MOLYBDENUM ALLOY
SA NICKEL ALLOY
SA NIMONIC ALLOY
SA NIOBIUM ALLOY
SA PALLADIUM ALLOY
SA PERMALLOY
SA PLATINUM ALLOY
SA PLUTONIUM ALLOY
SA POTASSIUM ALLOY
SA RARE EARTH ALLOY
SA REFRACTORY ALLOY
SA RHENIUM ALLOY
SA RUTHENIUM ALLOY
SA SILVER ALLOY
SA SODIUM ALLOY
SA STEEL
SA SUPERALLOY
SA TANTALUM ALLOY
SA TERNARY ALLOY
SA THORIUM ALLOY
SA TIN ALLOY
SA TITANIUM ALLOY
SA TUNGSTEN ALLOY
SA URANIUM ALLOY
CF INTERMETALLICS
PROPERTIES OF ALLOYS BRAZED WITH HIGH TEMPERATURE SOLDERS
JPRS-21927 N64-10354 01-17

PHASE ANALYSIS OF NONFERROUS ALLOYS
JPRS-18853 N64-10580 01-18

ELECTRON BEAM & ELECTROSLAG REFINING TO IMPROVE QUALITY OF STEELS & ALLOYS FOR WELDMENTS
JPRS-18490 N64-10770 02-18

TEMPERATURE DEPENDENCE OF HEMISPHERICAL EMITTANCE OF METAL AND ALLOY STRIPS IN 100- TO 1200-DEG C RANGE USING BLACKBODY VACUUM CHAMBER
N64-10961 02-13

PROBLEMS IN METALLURGY AND PHYSICS OF METALS AND METAL ALLOYS
FTD-TT-62-1290/1&2&4 N64-11144 02-18

METALLURGICAL EFFECTS OF CONVENTIONAL & EXPLOSIVE STRAIN RATES ON METAL ALLOYS
NASA-CR-52875 N64-11330 02-18

ELECTROSLAG REMELTING PROCESS FOR HIGH QUALITY STEEL & ALLOY PRODUCTION
JPRS-22217 N64-11419 02-17

X-RAY STUDY OF ORDER-DISORDER IN ALLOYS - BIBLIOGRAPHY
AD-422006 N64-12035 03-25

SEMIAUTOMATIC RECORDING OF POTENTIAL DIFFERENCE ON SURFACE OF STRUCTURAL COMPONENTS OF ALLOY
N64-12441 04-18

THERMAL STABILITY OF HEAT-RESISTANT ALLOYS
FTD-TT-63-147/1&2 N64-12838 04-18

METALLURGICAL DEVELOPMENTS RELATED TO HARD ALLOYS
JPRS-20277 N64-12892 04-01

CARBON AND HYDROGEN FURNACE DESIGNS FOR REDUCTION OF TUNGSTEN FOR INCLUSION IN HARD ALLOYS - METALLURGY
N64-12894 04-17

ELECTRON THEORY OF SIMPLE METALS AND ALLOYS - MOTION OF ELECTRONS AND CONDUCTION ELECTRON DENSITY
N64-12969 04-23

HEAT-RESISTANT STEELS & ALLOYS - ALLOYING ELEMENTS AND USE IN GAS-TURBINE INSTALLATIONS
JPRS-22781 N64-13349 04-18

FABRICATION HISTORY, MICROSTRUCTURE, AND MECHANICAL PROPERTIES OF REFRACTORY METALS AND ALLOYS
DMIC-186 N64-13970 05-18

IMPROVED PRODUCTION OF POWDER METALLURGICAL ALLOYS
ASD-TDR-7-911/VI/ N64-14322 06-18

HIGH ENERGY RATE EXTRUSION OF ALLOYS
ASD-TR-7-882/11/ N64-14790 06-18

POLYMERS, PLASTIC MATERIALS, SYNTHETIC FIBERS, ORGANIC & INORGANIC COMPOUNDS, METALS, AND ALLOYS
CRDL-SP-5-3 N64-14815 06-19

HIGH TEMPERATURE CORROSION STUDIES OF METAL ALLOYS
BM-RI-6359 N64-14882 06-07

CONCENTRATION DEPENDENCE OF SUZUKI ATMOSPHERES IN PACKING DEFECTS OF EXTENDED DISLOCATIONS, AND CONTRIBUTION TO ALLOY HARDENING
N64-15018 07-25

PREPARATION OF ZIRCONIUM & HAFNIUM ALDEHYDIC POLYMERS AND TANTALUM CARBIDE-HAFNIUM CARBIDE ALLOYS
N64-15109 07-19

ALLOYS FOR FUTURE SOLID PROPELLANT ROCKET MOTOR CASES
DMIC-MEMO-184 N64-15764 07-27

DEPTH OF COLD HARDENED LAYER OF ALLOYS UNDER VARIOUS MACHINING MODES
N64-16234 08-17

X-RAY ABSORPTION COEFFICIENTS OF SEVERAL ALLOYS USED IN REACTOR TECHNOLOGY
ORNL-3552 N64-16297 08-23

VIBRATION GRINDING OF METALS AND ALLOYS
FTD-TT-63-44/1&2 N64-16411 08-17

ALLOY MATERIALS FOR SUPERHEAT FUEL SHEATHS
GEAP-4351 N64-16550 08-18

PHYSICAL METALLURGY OF SOLID SOLUTIONS, ALLOYS, AND CRYSTALS
FTD-TT-63-510/1&2&4 N64-16602 08-18

THE K-STATE IN ALLOYS - METALLURGY
N64-16603 08-18

INTRAPHASE DECOMPOSITION AND ITS EFFECT ON ALLOYS
N64-16604 08-18

HIGH TEMPERATURE ALLOYS AND ALLOY MICROSTRUCTURE
FTS-9848/1&2&4 N64-17026 09-18

X-RAY SCATTERING FROM CRYSTAL LATTICE OF ALLOYS - STUDY OF ATOMIC INTERACTIONS N64-17041 09-25

SLOW NEUTRON SCATTERING IN ALLOYS
N64-17042 09-23

INFLUENCE OF THERMAL VIBRATION OF ATOMS ON ELECTRON SPECTRUM OF METALS & ALLOYS
N64-17054 09-25

RELATIONSHIP BETWEEN INHOMOGENEITY OF CAST ALLOYS AND BEHAVIOR AT HIGH TEMPERATURES
N64-17058 09-18

METAL FORMING, MACHINING, & FINISHING COMPONENTS FABRICATED FROM HEAT RESISTANT ALLOYS, STAINLESS STEEL, & TITANIUM ALLOYS
FTD-TT-63-344/1&2 N64-17076 09-17

HEAT RESISTANT ALLOYS N64-17077 09-17

ALUMINIZATION OF HEAT RESISTANT AND CORROSION RESISTANT ALLOYS & MATERIALS N64-17078 09-17

FABRICATING TURBINE BLADE BLANK FROM HEAT RESISTANT ALLOYS N64-17088 09-17

WELDING TURBINE COMPONENTS FABRICATED FROM HEAT RESISTANT ALLOYS N64-17090 09-17

ARC WELDING, PLASMA ARC & ARCLESS ELECTRIC FUSION WELDING OF HEAT RESISTANT ALLOYS
N64-17091 09-17

INERT-GAS SHIELDED ARC WELDING OF HEAT RESISTANT ALLOYS N64-17092 09-17

MACHINABILITY OF HEAT RESISTANT STEELS & ALLOYS IN TURNING, MILLING, AND DRILLING WITH CARBIDE-TIPPED CUTTING TOOLS N64-17096 09-17

TEMPERATURE FIELDS AND THERMOCONDUCTIVITY IN WORKPIECES & TOOLS IN MACHINING HEAT-RESISTANT STEEL ALLOYS N64-17097 09-17

MACHINING HEAT RESISTANT ALLOYS
N64-17098 09-17

ELECTRIC-PULSE MACHINING OF HEAT RESISTANT ALLOYS
N64-17099 09-17

PRODUCTION METHOD IN MACHINING HEAT RESISTANT STEEL & ALLOYS WITH FACE & END MILLING CUTTERS
N64-17101 09-17

MACHINING STAINLESS STEELS & HEAT RESISTANT ALLOYS
N64-17102 09-17

METAL FORMING, MACHINING, & FINISHING OF HEAT RESISTANT ALLOYS N64-17106 09-17

ADHESIVES AND PLASTICS, RADIOACTIVE ELEMENTS, ISOTOPE SEPARATION, ALPHA AND NEUTRON SOURCE DEVELOPMENT, AND ANALYSIS
MLM-1179 N64-18406 10-23

AERODYNAMICS, STRUCTURES, PROPERTIES OF METALS AND ALLOYS, MECHANICAL ENGINEERING, GUIDED WEAPONS, AND AIRCRAFT OPERATION RESEARCH
N64-18420 10-01

CONSTRUCTION AND OPERATION OF QUARTZ COMPOSITE OSCILLATOR FOR MEASURING INTERNAL FRICTION IN METALS AND ALLOYS
BM-RI-6419 N64-18506 10-09

METALLURGICAL EFFECTS OF EXPLOSIVE STRAIN RATES ON MECHANICAL AND PHYSICAL PROPERTIES OF METAL ALLOYS
NASA-CR-53640 N64-18513 10-18

PRECISION CASTING OF HEAT RESISTANT ALLOYS IN VACUUM N64-18531 11-17

HEAT TREATMENT OF MAGNETICALLY SOFT ALLOYS IN VACUUM N64-18533 11-17

DIFFERENTIAL THERMAL ANALYSIS OF METALS & ALLOYS
ASD-TDR-63-504 N64-18578 11-18

FATIGUE TESTS AND CRACK PROPAGATION OF ALLOY A.2GN AT VARIOUS FREQUENCIES AND TEMPERATURES
ICAF-231 N64-19543 12-33

METALLURGY OF ALLOYS
JPRS-24761 N64-21187 14-18

CHANGES IN STRUCTURE AND MECHANICAL PROPERTIES OF ALLOYS BASED ON METAL COMPOUNDS BY SUBSTITUTING LOW-MELTING COMPONENT N64-21192 14-18

EFFECT OF HIGH THERMAL RADIATION FLUX ON SEVERAL METAL ALLOYS
AL-TDR-64-27 N64-21802 15-18

METALLURGICAL RESEARCH IN ALLOY MELTING AND REFINING, WELDING, AND SURFACE TREATMENT AND CORROSION N64-22107 15-18

SCALE-, ACID-, AND HEAT-RESISTANT STAINLESS STEELS AND ALLOYS
FTD-TT-63-353/1&2&4 N64-22185 15-18

METALLOGRAPHIC OBSERVATION OF DISLOCATION STRUCTURES IN QUENCHED, AGED, AND ETCHED ALLOY SAMPLES
FTD-TT-63-322/1&2&4 N64-22187 15-18

STRUCTURAL STATE AND HEAT RESISTANCE OF ALLOYS
FTD-TT-62-1756/1&2 N64-22634 15-18

RESIDUAL STRESSES AND MECHANICAL PROPERTIES OF HEAT RESISTANT ALLOYS AFTER ELECTRIC DISCHARGE TREATMENT N64-23503 16-18

SURFACE LAYER STRUCTURE CHANGES IN STEELS & OTHER ALLOYS AFTER ELECTRIC DISCHARGE CUTTING N64-23504 16-18

ALLOYS WITH CORROSION RESISTANCE TO HYDROCHLORIC ACID AND SODIUM CHLORIDE SOLUTIONS N64-24268 17-07

CRYSTAL STRUCTURE CHANGE DURING THERMAL FATIGUE OF ALLOY N64-24532 17-18

EFFECT OF UNSTEADY HEATING ON CHANGE OF MAGNETIC AND ELECTRIC PROPERTIES OF ALLOYS N64-24533 17-18

DIFFUSION AND OXIDATION PROCESSES IN ALLOY UNDER CONDITIONS OF THERMAL CYCLING N64-24534 17-18

CASTING PROPERTIES OF HEAT-RESISTING ALLOYS
JPRS-24969 N64-24582 17-18

PRIMARY CRYSTALLIZATION OF HEAT-RESISTING ALLOYS N64-24583 17-18

STRUCTURE AND PROPERTIES OF THIN-WALL CASTINGS FROM HEAT-RESISTANT ALLOYS N64-24584 17-18

PRODUCTION OF CAST TURBINE BLADES FROM HEAT-RESISTANT ALLOYS N64-24585 17-17

LOW CYCLE FLEXURAL FATIGUE OF BOTH FERROUS AND NONFERROUS ALLOYS FOR SUBMARINES
NAVENGRXSTA-91-197D N64-24987 17-18

STRESS RELAXATION IN CAST ALLOYS
JPRS-25391 N64-25197 17-18

HEATING RATE EFFECTS ON TEMPERATURE RANGES IN ANNEALING OF STEEL - CRYSTAL FORMATION & GROWTH IN ALLOYS
FTD-TT-63-48/1&2 N64-25428 17-18

DYNAMIC EQUATIONS OF AIR INTAKE & CONTROL SYSTEMS FOR TURBOJET ENGINES OPERATING IN TURBULENT ATMOSPHERES N64-25434 17-04

AGING IN ALLOYS WITH TEMPERATURE DEPENDENT SOLID SOLUTION CONCENTRATION
FTD-TT-64-124/1&2&4 N64-25464 17-18

OXIDE FILM TENACITY ON ALLOYS EXPOSED TO REACTOR COOLANTS
HW-79811 N64-25533 17-18

BEHAVIOR OF NOBLE METALS AND THEIR ALLOYS WITH OXYGEN
RAE-TRANS-1061 N64-25536 17-18

HEAT RESISTING ALLOYS FOR TURBINE AND COMPRESSOR BLADES
JPRS-24845 N64-25852 18-18

COMPATIBILITY AND CORROSION RATES OF WELDED ALLOYS WITH HIGH ENERGY OXIDIZERS - CHLORINE TRIFLUORIDE AND PERCHLORYL FLUORIDE
ML-TDR-64-22 N64-26689 18-07

NOTCH STRENGTH OF LOW-ALLOY STEELS AT HIGH TEMPERATURES
NRL-1523 N64-26703 18-18

MECHANICAL PROPERTIES AND DEFORMATION CHARACTERISTICS OF METALS AND ALLOYS UNDER PRESSURE
NEL-142 N64-27187 19-18

HAFNIUM-TANTALUM EQUILIBRIUM DIAGRAM OBTAINED BY OPTICAL PYROMETRY, METALLOGRAPHY, DIFFERENTIAL THERMAL ANALYSIS, AND X-RAY DIFFRACTION
BM-RI-6521 N64-28624 20-18

LONG TERM TENSILE STRESS RUPTURE STRENGTH OF ALLOYS CALCULATED FROM RESULTS OF STATIC TENSILE STRENGTH TESTS AT ELEVATED TEMPERATURES
TR-1773 N64-28628 20-18

EFFECTS ON GRAIN SIZE OF VIBRATION DURING POURING OF MOLTEN ALLOYS TO FORM CASTINGS N64-29049 21-18

ALLOYING CHARACTERISTICS OF RARE EARTH ELEMENTS WITH TRANSITION ELEMENTS
IITRI-578P19-13 N64-29755 21-18

TEMPERATURE DEPENDENCE OF DEFORMATION RESISTANCE OF SUBSTITUTIONAL SOLID SOLUTIONS - MECHANICAL PROPERTIES OF ALLOYS N64-31469 23-18

LOW TEMPERATURE & FATIGUE PROPERTIES OF CERTAIN METAL ALLOYS N64-32363 23-18

ALOUETTE SATELLITE
VERY-LOW-FREQUENCY OBSERVATIONS MADE ABOARD ALOUETTE SATELLITE
NASA-TM-X-51251 N64-11794 03-32

ALOUETTE SATELLITE DATA OF EARTH RADAR - THEORY OF ELECTROMAGNETIC SCATTER FROM ROUGH SURFACES AND SURFACE HEIGHTS
NASA-CR-52985 N64-12029 03-32

INTERNATIONAL SATELLITES FOR IONOSPHERIC STUDIES /ISIS/ PROGRAM - ALOUETTE B & ISIS A, B, & C SATELLITES N64-13291 04-32

TOPSIDE IONOSPHERE DATA FROM ALOUETTE SATELLITE
RRS/IM-112 N64-14919 06-12

EXPONENTIAL ELECTRON DENSITY PROFILE ABOVE F- 2 LAYER OF IONOSPHERE - ALOUETTE SATELLITE IONOGRAM
USAELRDL-TR-2424 N64-18042 10-12

CHARGED-PARTICLE PROFILES OF UPPER IONOSPHERE FROM ALOUETTE TOPSIDE SATELLITE SOUNDING, COMPARED WITH ROCKET- & GROUND-BASED BACKSCATTER MEASUREMENTS
NASA-RP-158 N64-19148 11-12

ALOUETTE TOPSIDE SOUNDINGS USED TO DETERMINE VARIATIONS OF ELECTRON DENSITY
NASA-CR-53820 N64-19309 12-32

METHODS OF ANALYSIS OF DATA FROM ALOUETTE TOPSIDE SOUNDER SATELLITE & REDUCTION TO ELECTRON DENSITY DISTRIBUTION WITH HEIGHT
NASA-RP-169 N64-20018 13-12

ECHOS AT GREAT DISTANCE OBSERVED ON IONOGRAMS OF ALOUETTE SATELLITE
NASA-TT-F-8934 N64-26930 18-08

PERTURBATION OF ALOUETTE B SATELLITE ORBIT
NASA-TM-X-55053 N64-27260 19-32

DATA FROM ALOUETTE AND INJUN III SATELLITES - AVERAGE PRECIPITATION RATE OF ELECTRONS IN AURORAL ZONE AS FUNCTION OF ENERGY
NASA-TM-X-55057 N64-28898 20-12

MEAN DIURNAL VARIATION OF TOPSIDE IONOSPHERE AT MID-LATITUDES USING ALOUETTE SATELLITE DATA
NASA-TM-X-55042 N64-29517 21-12

SPREAD-F OBSERVATIONS BY ALOUETTE SATELLITE N64-30081 21-12

THEODOLITE OBSERVATIONS OF MIDAS III AND V, ALOUETTE, ANNA, AND STARAD SATELLITES - JUNE 1964 N64-33251 24-08

ALPHA RADIATION
STRUCTURE OF HEAVY NUCLEI - WEAK BRANCHING IN ALPHA DECAY
UCRL-11208 N64-13218 04-23

ALPHA DECAY OF PROTACTINIUM ISOTOPES
UCRL-11082 N64-14070 05-23

ALPHA PARTICLE AND PROTON BEAMS IN RADIATION THERAPY OF PITUITARY GLAND TUMORS AND ADENOMA N64-15205 07-16

BRAIN INJURIES FOLLOWING ALPHA PARTICLE IRRADIATION OF PITUITARY GLAND N64-15206 07-16

ACTIVATION ANALYSIS OF RADIOISOTOPIC NUCLIDES PRODUCED BY NEUTRONS, PROTONS, AND ALPHA & GAMMA RAY REACTIONS
AEET/ANAL/28 N64-15731 07-23

ALPHA DECAY SCINTILLATION COUNTER FOR URANIUM SURFACE CONTAMINATION MEASUREMENT OF NUCLEAR REACTOR FUEL
HW-78268 N64-15998 07-23

FREQUENCY DISTRIBUTIONS OF ALPHA PARTICLE ENERGY LOSS PASSING THROUGH ABSORBER OF VARIABLE THICKNESS
NYO-10716 N64-16025 07-23

DETECTION OF ALPHA CONTAMINATION FROM URANIUM DUST IN ATMOSPHERE
K-1589 N64-17742 09-15

CARBON 13-OXYGEN 16 ALPHA-NEUTRON REACTION BETWEEN 5.9 AND 8.4 MEV
UR-875-8 N64-17981 10-23

CONDUCTIVE ADHESIVES, HALF-LIVES AND SEPARATION OF RADIOACTIVE ISOTOPES, NEUTRON AND ALPHA SOURCES, AND LOW LEVEL TRITIUM COUNTING
MLM-1177 N64-18405 10-23

ADHESIVES AND PLASTICS, RADIOACTIVE ELEMENTS, ISOTOPE SEPARATION, ALPHA AND NEUTRON SOURCE DEVELOPMENT, AND ANALYSIS
MLM-1179 N64-18406 10-23

INTERPRETATION OF RESULTS FROM PROPOSED SURVEYOR SATELLITE ALPHA-SCATTERING EXPERIMENT - LUNAR SURFACE COMPOSITION DETERMINATION
NASA-CR-53876 N64-19790 12-05

CONVERSION OF ALPHA PARTICLE KINETIC ENERGY INTO ELECTRICITY N64-19848 12-23

THERMOLUMINESCENT KINETICS OF ALPHA IRRADIATED ALKALI HALIDES
NASA-RP-177 N64-21303 14-25

TRANSISTORIZED ALPHA RADIATION DETECTOR FOR HAND CONTAMINATION DETECTION
RFP-348 N64-21350 14-15

VISIBLE RADIATION DAMAGE IN SODIUM CHLORIDE CRYSTALS BY ALPHA PARTICLE BOMBARDMENT
NASA-TN-D-2329 N64-21428 14-25

RADIATION THERAPY OF BRAIN TUMOR WITH HIGH ENERGY ALPHA PARTICLE BEAM FROM LARGE SYNCHROCYCLOTRON N64-22865 16-16

INFLUENCE OF NITRIC ACID ON REDUCTION OF CERIUM IONS IN POLONIUM ALPHA RADIATION FIELD
LFEN-2 N64-29235 21-07

NUCLEAR REACTION OF LITHIUM 6 UNDER PROTON IRRADIATION TO YIELD HELIUM 3 & ALPHA PARTICLE N64-30662 22-23

EFFECT OF TEMPERATURE VARIATIONS, THICKNESS OF SUPERCONDUCTING LAYERS, AND LEAD, TIN, & INDIUM ON FLUX DECAY DUE TO ALPHA PARTICLE IRRADIATION
LNF-64/35 N64-32004 23-25

GENERATOR FOR DIRECT CONVERSION OF ALPHA PARTICLE ENERGY TO ELECTRICITY
NASA-CR-54162 N64-32021 23-06

RADIATION SAMPLING OF ALPHA, BETA, AND GAMMA PARTICLES IN AIR, WATER, AND MELTED SNOW TO DETERMINE RADIATION HAZARD
NDL-TR-63 N64-32872 24-21

ENERGY DEPENDENCE OF LARGE ANGLE ELASTIC ALPHA PARTICLE SCATTERING
NASA-RP-354 N64-33787 24-23

ALTERNATING CURRENT /AC/
PRODUCTION OF RHENIUM POWDER BY ELECTROLYSIS USING ALTERNATING CURRENT N64-10729 02-19

TRANSISTOR FOR CONVERTING DIRECT CURRENT TO ALTERNATING CURRENT
FTD-TT-63-179/1&2 N64-11155 02-09

REPRESENTATION OF ALTERNATING-CURRENT PROSPECTING DATA AS APPARENT SPECIFIC RESISTANCE - GEOLOGICAL SURVEY N64-11493 03-23

LOW-FREQUENCY ALTERNATING CURRENT IN ELECTRICAL PROFILING - GEOLOGICAL SURVEY N64-11494 03-12

CONVERSION OF DIRECT TO ALTERNATING CURRENT USING MAGNETORESISTANCE - THEORY AND EXPERIMENTS WITH MATERIALS, CONFIGURATIONS, AND CIRCUITS
NASA-CR-52910 N64-11793 03-23

AC STABILIZATION OF MAGNETIC CONFINEMENT OF PLASMA COLUMN IN THETA PINCH APPARATUS
TDR-169/3210-02/TR-1 N64-12060 03-21

MAGNETORESISTANCE AND SUPERCONDUCTIVITY FOR APPLICATION TO DC TO AC CONVERSION
NASA-CR-53083 N64-16750 08-06

ALTERNATING CURRENT ARC HEATER DESIGN
ARL-64-9 N64-16815 08-24

NONTHERMAL EFFECTS OF ALTERNATING ELECTRICAL FIELDS ON BIOLOGICAL STRUCTURES & SYSTEMS
AD-406795 N64-17330 09-23

MODULATED INVERTER FOR REGULATION OF ALTERNATING CURRENT TO DIRECT CURRENT POWER SUPPLIES N64-17432 09-06

IMPROVEMENT OF STABILITY OF ALTERNATING CURRENT THROTTLE DRIVES WITH CURRENT & VOLTAGE REGULATORS N64-23085 16-04

ALTERNATING CURRENT MEASUREMENT OF ELECTRODE DIFFERENTIAL CAPACITANCE AND RESISTANCE OF ELECTROCHEMICAL CELL FOR ELECTROLYSIS
T-1716 N64-24154 16-09

VOLTAGE NUMBER CODE CONVERTER FOR DIRECT AND ALTERNATING CURRENT CONTROL SYSTEMS N64-24543 17-09

THERMOELECTRIC CONVERSION SYSTEM - MAGNETIC FIELD EFFECT, SPACE CHARGE EFFECT, AND ALTERNATING VOLTAGE GENERATION
FTD-TT-64-528/1&2 N64-26163 18-06

DETERMINING CAPABILITY OF MANUFACTURING TAUT-BAND SUSPENSION ALTERNATING CURRENT VOLTAGE AND AMPERE METERS
QPR-4 N64-27960 20-17

THREE PHASE ALTERNATING CURRENT HYDROGEN ARC JET PROPULSION SYSTEM
NASA-CR-54112 N64-28462 20-27

ALTERNATING CURRENT CONDUCTIVITY OF PLASMA IN UNIFORM FIELD
NASA-RP-304 N64-29205 21-24

PRECISION ALTERNATING CURRENT DRAG CUP TACHOMETERS - PHASE SHIFT AND LINEARITY N64-31485 23-15

PERFORMANCE ANALYSIS OF ALTERNATING CURRENT ELECTRIC ARC POWER SUPPLY
NOLTR-63-275 N64-31671 23-10

APPLICATION OF AMPLITUDE MODULATION TO ALTERNATE CURRENT TRACKING SYSTEMS N64-31856 23-08

FACTORS AFFECTING LOSSES IN ALTERNATING CURRENT SUPERCONDUCTIVITY OF MATERIALS
PR-2 N64-32558 23-25

ALTIMETER
CF POSITION INDICATOR
PROTOTYPE RADAR ALTIMETER FOR ALTITUDE DATA INPUT OF AUTOMATIC LANDING SYSTEM N64-10160 01-09

FACILITIES EMPLOYING BAROMETRIC PRESSURE DEVICES FOR CALIBRATION OF AIRCRAFT ALTIMETERS N64-11423 02-15

DISTANCE MEASUREMENTS FROM AIRCRAFT TO EARTH SURFACE BY FREQUENCY-MODULATED CONTINUOUS WAVE RADIO ALTIMETER N64-15147 07-08

RANGING/ALTITUDE INDICATOR FOR COLLISION AVOIDANCE NAVIGATION
RD-64-5 N64-16254 08-10

BAROMETRIC ALTIMETERS AND PRESSURE-HEAD SPEED INDICATORS N64-17543 09-15

RADIATION PHYSICS SOLUTIONS TO PROBLEMS OF INSTRUMENTATION USED IN LOW AND HIGH ALTITUDE ALTIMETRY AND FUEL MASS MEASUREMENT
ASD-TDR-63-697 N64-20395 13-15

AUTOMATIC RADAR ALTIMETER USING AIR TRAFFIC CONTROL BEACONS N64-20507 13-08

VISUAL AND AUDIBLE SIGNAL MECHANISMS FOR ALTIMETER DISPLAY SYSTEM
FPRC-1215 N64-20627 13-15

SMALL LIGHT-WEIGHT ALTITUDE TRANSMISSION EQUIPMENT
REPT.-10136 N64-21007 14-08

LUNAR MISSION - FUNCTION AND PERFORMANCE OF RANGER LANDING SYSTEM ALTIMETER
U-2252, VOL. 2 N64-22227 15-15

MEASUREMENT AND INSTRUMENT ERRORS IN STATIC-PRESSURE ALTIMETER SYSTEM
AIAA PAPER-64-344 N64-23230 16-15

EXPERIMENTAL TESTING AND EVALUATION OF ALTIMETER DISPLAY DESIGNS
ASD-TDR-63-623, PT. 3 N64-24948 17-15

OZONE ALTIMETER OF REENTRY VEHICLE FOR HEIGHT DETERMINATION BY MEASUREMENT OF INTENSITY OF SOLAR RADIATION
REPT.-6121-8728-RU-000 N64-25489 17-12

READING ACCURACY AND ALTITUDE CONTROL ACCURACY WITH VARIOUS ALTIMETER DISPLAY SYSTEMS
NRL-MEMO-1522 N64-25596 17-15

ALTIMETER DISPLAY SYSTEM - FLIGHT CONTROL INFORMATION REQUIREMENTS
ASD-TDR-63-621, PT. 1 N64-26191 18-15

METHODOLOGY OF DISPLAY SYSTEM EVALUATION FOR APPLICATION TO STATIC TESTING OF ALTIMETER DISPLAY DESIGNS
ASD-TDR-63-622 N64-26899 18-15

INTEGRATION OF RADAR ALTIMETER INTO AUTOMATIC LANDING SYSTEM
REPT.-1116-1 N64-30367 22-15

INTERFERENCE EFFECTS PRODUCED IN PULSE ALTIMETER BY SIGNAL COUPLING WITH FM ALTIMETER
N64-30368 22-15

AERONAUTICS - 25TH AIR EXPOSITION, HELICOPTER PROGRAM, RADIO ALTIMETERS AND MONITORS, AND XH-51 HELICOPTER N64-31520 23-04

RECOMMENDATIONS OF EQUIPMENT AND MAINTENANCE STANDARDS FOR USE IN PRESSURE-MEASURING ALTIMETERS
RD-64-119 N64-32803 24-15

ALTITUDE
SA LOW ALTITUDE
MEASURING ALTITUDE OF LOWER EDGE OF CLOUDS USING REFLECTED LIGHT AND OPTICAL INSTRUMENTS
FTD-TT-63-779/1&2 N64-11170 02-21

ALTITUDE OF AURORAL ABSORPTION DUE TO TWO-ELECTRON SPECTRA
NASA-TM-X-54567 N64-15865 07-12

FLIGHT TEST TO DETERMINE ALTITUDE EFFECT ON HEIGHT-VELOCITY DIAGRAM OF SINGLE ENGINE HELICOPTER
FAA-ADS-1 N64-16290 08-04

ALTITUDE, VELOCITY, AND RANGE LIMITATIONS ON AIRCRAFT FLIGHT
FTD-TT-63-788/1 N64-16387 08-04

CHANGES IN ARTERIAL LACTIC ACID OF DOGS AT HIGH ALTITUDE
SAM-TDR-64-2 N64-18886 11-16

ATMOSPHERIC PARAMETERS AS FUNCTIONS OF ALTITUDE AND MAGNETIC LATITUDE OF FOUR QUIESCENT EARTH CONDITIONS
REPT.-132 N64-20354 13-32

VARIATIONS IN ALTITUDES OF MAXIMUM ELECTRON CONCENTRATION OF F- 2 LAYER
NASA-TT-F-9019 N64-22945 16-12

READING ACCURACY AND ALTITUDE CONTROL ACCURACY WITH VARIOUS ALTIMETER DISPLAY SYSTEMS
NRL-MEMO-1522 N64-25596 17-15

FALLOUT RADIATION ENERGY DISTRIBUTION AS FUNCTION OF ALTITUDE
FZK-187 N64-27864 19-23

MOVING COCKPIT PILOTED SIMULATOR TEST OF VTOL AIRCRAFT ALTITUDE CONTROL REQUIREMENTS DURING HOVER
NASA-TN-D-2451 N64-28059 20-10

LARGE VACUUM CHAMBERS FOR SIMULATION OF VERY HIGH ALTITUDES AND SPACE ENVIRONMENT
N64-29881 21-10

GEOGRAPHICAL ORIENTATION, OPERATIONAL PROBLEMS, HUMAN PERFORMANCE DURING VIBRATION, AND PHYSICAL AND GEOMETRIC PARAMETERS AFFECTING VISIBILITY IN LOW ALTITUDE HIGH SPEED FLIGHT
ACR-95 N64-31508 23-14

GEOGRAPHICAL ORIENTATION DURING LOW ALTITUDE FLIGHT N64-31509 23-14

EFFECTS OF PHYSICAL AND GEOMETRIC PARAMETERS AND HUMAN VISUAL LIMITATIONS ON VISIBILITY DURING LOW ALTITUDE HIGH SPEED FLIGHT N64-31511 23-14

HUMAN PERFORMANCE DURING SINUSOIDAL AND RANDOM VIBRATION IN LOW SPEED, HIGH ALTITUDE FLIGHT N64-31512 23-14

HUMAN PERFORMANCE DURING SINUSOIDAL AND RANDOM VIBRATION IN LOW SPEED, HIGH ALTITUDE FLIGHT N64-31512 23-14

PARACHUTE DECELERATOR TESTS AT HIGH ALTITUDES AND HIGH MACH NUMBERS
FDL-TDR-64-35, VOL. I N64-31694 23-04

INCIDENCE OF PHYSIOLOGICAL SYMPTOMS IN HEALTHY MEN AFTER EXPOSURE TO RAPID DECOMPRESSION - ALTITUDE SIMULATION TESTS
RR-3 N64-31886 23-16

CHARTS OF EQUILIBRIUM REAL-GAS STAGNATION POINT CONDITIONS ON SPHERE FOR HIGH ALTITUDES AND HYPERSONIC SPEEDS
NOLTR-64-41 N64-32537 23-13

NIGHT-TIME PHOTOMETER MEASUREMENTS OF OZONE CONCENTRATION AT HIGH ALTITUDE
NASA-TM-X-55101 N64-33630 24-12

ALTITUDE SICKNESS
S ALTITUDE ACCLIMATIZATION

ALTITUDE TEST
REACTION OF CIRCULATION, RESPIRATION, AND METABOLIC FUNCTIONS TO CHANGING CLIMATE AT HIGH ALTITUDE N64-15046 07-16

SUPERSONIC FLOW CAPABILITY OF ALTITUDE TEST FACILITY FOR AERODYNAMIC RESEARCH AND FREE JET AIR BREATHING ENGINE TESTING
NATTS-ATL-92 N64-30184 21-10

ALUMINATE
POLAROGRAPHIC METHOD OF DETERMINING IRON IN ALUMINATE SOLUTIONS
AMC-TRANS-1-63 N64-11913 03-07

CRYSTALLINE PHASE TRANSFORMATION IN LITHIUM-ALUMINATE
RTD-TDR-63-4151 N64-17230 09-25

ELASTIC PROPERTIES OF MAGNESIUM OXIDE & MAGNESIUM ALUMINATE SPINEL
AD-432276 N64-20691 13-19

ELASTIC PROPERTIES OF POLYCRYSTALLINE MAGNESIUM ALUMINATE SPINEL N64-20693 13-19

ALUMINIZATION
ALUMINIZATION OF HEAT RESISTANT AND CORROSION RESISTANT ALLOYS & MATERIALS N64-17078 09-17

ALUMINUM
SA POWDERED ALUMINUM
BERYLLIUM, FLUORINE, AND ALUMINUM NUCLEAR REACTIONS AT 27.5 MEV
URPA-10 N64-10193 01-23

WORKABILITY AND PRACTICAL EMPLOYMENT OF SINTERED ALUMINUM PRODUCTS - EXTRUSION, DRAWING, & ROLLING
EUR-428.I N64-10450 01-17

X-RAY SPECTROSCOPY AND SPECTROGRAPHY FOR CONTROL OF ALUMINUM, TITANIUM, AND STEEL WELDING
OTS-63-22058 N64-10589 01-17

SINTERED ALUMINUM POWDER HIGH-TEMPERATURE MATERIAL
JPRS-17818 N64-10635 01-18

DESIGN OF INDUSTRIAL ALUMINUM PROCESSING PLANT
JPRS-17484 N64-10681 02-18

BRAZING AND WELDING OF SINTERED ALUMINUM POWDER
JPRS-18187 N64-10750 02-18

WELDING OF VARIOUS GRANULATED METALLIC POWDERS - TUNGSTEN, NICKEL, TIN, LEAD, TITANIUM, ALUMINUM AND FERROALLOYS N64-10767 02-12

METALLURGICAL DEVELOPMENTS - ALUMINUM BRAZING & AMMONIUM PARATUNGSTATE PRODUCTION
JPRS-18870 N64-10804 02-18

ALUMINUM POWDER PRESSURE BRIQUET FORMING
JPRS-18186 N64-11212 02-17

CUTTING ALUMINUM SINGLE CRYSTALS, DISLOCATIONS IN DEFORMED METALS, & STRENGTH OF METAL TO CERAMIC BOND
JPRS-18869 N64-11215 02-18

EXO-ELECTRON EMISSION FROM FATIGUING ALUMINUM
NASA-CR-52683 N64-11228 02-18

CHROMIUM AS A METALLIC BONDING & DIFFUSION BARRIER BETWEEN URANIUM & ALUMINUM
EUR-413.F N64-11263 02-18

SINTERED ALUMINUM POWDER - ELECTRON MICROSCOPE STUDY OF STRUCTURAL CHANGES DURING HEATING
JPRS-22219 N64-11362 02-18

CORROSION PROBLEMS ASSOCIATED WITH USE OF TITANIUM FASTENERS TO CONNECT ALUMINUM COMPONENTS
NASA-TM-X-51167 N64-11381 02-07

DENSITY AND ELASTICITY CHANGES IN PRESSING OF ALUMINUM, TUNGSTEN, AND COPPER POWDERS N64-11483 03-17

MEASUREMENT OF HEAT RESISTANCE BETWEEN FLAT SURFACES OF URANIUM & ALUMINUM IN CONTACT
RSIC-99 N64-11538 03-18

FRACTURE TOUGHNESS DETERMINATION OF ADHESIVE ALUMINUM-EPOXY-ALUMINUM JOINTS
AFL-TM-241 PT. 1 N64-11803 03-33

SPOT WELDING OF SINTERED ALUMINUM POWDER WITH ALUMINUM ALLOYS
JPRS-22422 N64-12010 03-17

ABNORMAL GRAIN GROWTH IN ALUMINUM & ALUMINUM ALLOYS - BIBLIOGRAPHY
SAB-63-3 N64-12013 03-18

DEFECTS IN COMPRESSION LOADING OF LUBRICANT FILM AT TOOL-METAL INTERFACE IN PLASTIC COMPRESSION OF ALUMINUM
WAL-TR-620.5/1-1/F/ N64-12322 03-11

ENERGY DEPOSITED IN WATER, COPPER, AND ALUMINUM BY ELECTRON BEAM N64-12534 04-23

SOLAR FLARE ATTENUATION BY ALUMINUM SHIELDS - NUCLEON-MESON CASCADE CALCULATIONS FOR SOLAR FLARE PROTON SPECTRA ON SHIELD N64-12538 04-23

X-RAY DIFFRACTION METHODS APPLIED TO SUBSTRUCTURE AND DISLOCATION DISTRIBUTION OF SINGLE CRYSTAL AND POLYCRYSTALLINE ALUMINUM N64-12763 04-25

VOLUMETRIC DETERMINATION OF METALLIC ALUMINUM IN ALUMINUM POWDER
FA-TR-T64-1 N64-13080 04-18

INTERNAL FRICTION AND DYNAMIC ELASTIC MODULUS OF SINTERED ALUMINUM POWDER
EUR-402.1 N64-13141 04-23

EVALUATION OF DIFFUSED TRANSISTOR, ALUMINUM WIRE, AND DOUBLE-COATING AND EXPOSURE OF PHOTORESISTANT MATERIAL N64-13231 04-17

FAILING LOAD AND FAILURE MODE FOR ALUMINUM SHEET
A237 N64-13247 04-18

CHEMICAL MILLING OF PRECISION SLOTS IN STAINLESS STEEL AND ALUMINUM
A239 N64-13249 04-17

PASSIVATION OF ALUMINUM ELECTRODES IN ANHYDROUS HYDROGEN FLUORIDE
TRACOR-63-278-U N64-13313 04-07

DURABILITY AND INTERNAL FRICTION OF SINTERED ALUMINUM POWDER CRYSTALS DURING CYCLIC HEAT TREATMENT N64-13737 05-18

SUPERCONDUCTIVE EFFECTS IN ALUMINUM AND TIN THIN FILMS
C-64380 N64-13955 05-23

ATTENUATION OF SOLAR FLARES BY ALUMINUM SHIELDS OF SLAB AND SPHERICAL-SHELL GEOMETRIES OF VARYING THICKNESS
ORNL-3520 N64-14247 06-23

ESTIMATION OF TOLERANCE OF ALUMINUM AND STEEL WALLS OF SPACE VEHICLE TO METEOROIDS AT 100-500 KILOMETERS ABOVE EARTH SURFACE
NASA-TN-D-1996 N64-14391 06-05

HYPERVELOCITY IMPACT OF COPPER FILAMENTS INTO ALUMINUM TARGETS
NASA-TN-D-1981 N64-14726 06-02

WIDTH MEASUREMENTS OF TURBULENT INNER WAKE BEHIND 3-INCH DIAMETER ALUMINUM SPHERES AT SUPERSONIC SPEED
CARDE-TR-488/64 N64-15732 07-02

STRESS-WAVE PROPAGATION IN ALUMINUM
BALLISTICS RES. REPT.-107 N64-15820 07-33

GAMMA-RAY SPECTRA FROM RADIATIVE CAPTURE OF 14 MEV NEUTRONS IN ALUMINUM-27
NIJS-R-420 N64-15913 07-23

BIBLIOGRAPHY - FUSION WELDING OF ALUMINUM
SB-63-56 N64-15980 07-17

HYPERVELOCITY IMPACT FLASH OF ALUMINUM SPHERES IMPINGING ON ALUMINUM PLATE AT LOW PRESSURE
NASA-TN-D-2232 N64-16118 08-23

CHEMICAL PROCESSING OF ZIRCONIUM FUEL, ALUMINUM FUEL, AND ADSORPTION OF ORGANIC AGENTS ON FISSION PRODUCTS
IDO-14616 N64-16253 08-07

PROPAGATION OF SPHERICAL SHOCK WAVE THROUGH ALUMINUM-GLASS INTERFACE N64-16261 08-23

FLEXIBLE POLYMER FILM AND ADHESIVE RESIN BONDING

OF ALUMINUM TO ALUMINUM - LOAD AND VIBRATION TEST
NASA-CR-55721 N64-16272 08-34

WRINKLING AS FUNCTION OF SURFACE WAVINESS IN ALUMINUM HONEYCOMB CORE PANELS
ERR-FW-196 N64-16628 08-34

RELATIVE STRENGTH OF DOUBLE REVERSED CORRUGATED ALUMINUM CORES AND ALUMINUM HONEYCOMBS
ERR-FW-197 N64-16629 08-33

TEMPERATURE-YIELD STRENGTH CORRELATION OF CRATER SIZE IN ALUMINUM BY HYPERVELOCITY IMPACT OF ALUMINUM SPHERES
NOLTR-63-142 N64-16649 08-23

ALUMINUM SHEET PLATE WELDING TOOLS AND TECHNIQUES
NASA-SP-5003 N64-16859 08-17

DEFORMATION MECHANISM OF ALUMINUM SINGLE CRYSTALS AT VARIOUS TEMPERATURES N64-17049 09-25

ELECTROCHEMICAL DEBURRING OF MOLYBDENUM, ALUMINUM, AND STAINLESS STEEL
A478 N64-17136 09-17

ALUMINUM HONEYCOMB ENERGY ABSORPTION PROPERTIES
A483 N64-17141 09-19

COMBUSTION OF BERYLLIUM AND ALUMINUM PARTICLES
ARC-8-P N64-17285 09-26

MONTE CARLO ANALYSIS OF NEUTRON SCATTERING FROM SMALL VOLUME OF CARBON, BERYLLIUM, ALUMINUM, IRON, AND POLYETHYLENE
NAA-SR-9418 N64-17290 09-23

MONTE CARLO CODE FOR NUCLEAR COLLISION DENSITY OF PRIMARY GALACTIC PROTONS IN ALUMINUM SLAB
NASA-TN-D-2122 N64-17295 09-23

LARGE AREA SOLAR CELLS FROM SILICON SHEETS USING ALUMINUM HONEYCOMB SUBSTRATE N64-17378 09-06

STRAIN RATE SENSITIVITY OF HIGH PURITY POLY-CRYSTALLINE ALUMINUM
AROD-2998-2 N64-17627 09-33

EFFECT OF POLYSLIP ON STRAIN HARDENING IN ALUMINUM SINGLE CRYSTALS
UCRL-11160 N64-17706 09-25

FUEL ELEMENT - HEAT TRANSFER IN GAS GAP BETWEEN URANIUM MONOCARBIDE AND ALUMINUM SURFACES
EUR-521.E N64-17775 09-23

FATIGUE AND CRACK PROPAGATION IN ALUMINUM, AND DISLOCATION MECHANISM IN COPPER-ZINC ALLOYS
WADD-TR-60-313, PT. 2 N64-17850 10-33

FLUXES AND THEIR USE IN SOLDERING ALUMINUM - BIBLIOGRAPHY
TID-3577 N64-18458 10-18

INFLUENCE OF ULTRASONIC RADIATION ON PHYSICAL PROPERTIES OF METALS - ALUMINUM CYLINDER TEST SAMPLE
FTD-MT-63-161 N64-18687 11-17

BRAZING SINTERED ALUMINUM POWDERS
JPRS-24355 N64-18979 11-17

STRUCTURAL CHANGES IN ALUMINA IN MOLTEN SINTERED ALUMINUM POWDER - METALLURGY
EUR-589.F N64-19040 11-18

QUANTITATIVE ANALYSIS OF ALUMINUM IN COMPRESSED AND SINTERED MIXTURES OF ALUMINUM AND ALUMINUM OXIDE POWDERS
EUR-585.I N64-19043 11-07

EFFECT OF NITRIC ACID, THORIUM, FLUORIDE, AND ALUMINUM ON PROTACTINIUM ADSORPTION BY UNFIRED VYCOR GLASS
ORNL-3599 N64-19237 11-07

METALLURGICAL DEFECTS IN ALUMINUM EXTRUSIONS
NAA-SR-8262 N64-19286 11-18

LOW DENSITY POLYURETHANE FOAM WITH MYLAR AND ALUMINUM FOIL THIN-FILM SEAL AS INSULATION SYSTEM FOR LIQUID HYDROGEN TANKS OF ROCKET VEHICLES
N64-19371 12-13

SOLUBILITY OF IRON & ALUMINUM IN URANIUM - URANIUM CORNER OF URANIUM-ALUMINUM-IRON PHASE DIAGRAM
N64-19442 12-18

NUCLEAR REACTION CROSS SECTIONS OF ISOTOPES OF ALUMINUM, SODIUM, AND CARBON
CERN-64-17 N64-19476 12-23

OBTAINING HIGH PURITY ALUMINUM BY ZONE RECRYSTALLIZATION
JPRS-24459 N64-19917 12-25

INFLUENCE OF QUENCHING CONDITIONS ON VACANCY LOOPS IN ALUMINUM
UCRL-11188 N64-20277 13-25

PAINT AND FILM REMOVAL FROM STEEL AND ALUMINUM SURFACES
CCL-159 N64-20321 13-17

EFFECT OF OXIDE DISSOLUTION AND HEAT TRANSFER ON CORROSION OF ALUMINUM-CLAD FUEL ELEMENTS
HW-77529 N64-20698 13-07

DILATOMETRICAL ANALYSIS OF SINTERED ALUMINUM POWDER WITH VARIOUS OXIDE CONTENTS
EUR-1613.I N64-21195 14-18

STRETCH-FORMED ALUMINUM SOLAR CONCENTRATOR FOR SPACE POWER CONVERSION SYSTEMS
NASA-CR-47 N64-21420 14-06

REDUCTION OF CATALYST NEEDED FOR CONTINUOUS DISSOLUTION OF ALUMINUM IN NITRIC ACID BY RECIRCULATION OF DISSOLVER EFFLUENTS
IDO-14637 N64-21774 15-07

ALUMINUM AND ITS OXIDES AS SOURCES OR MODERATORS OF ELECTRONS IN SOLID PROPELLANT ROCKET EXHAUST
QSR-6 N64-21797 15-24

NUCLEAR QUADRUPOLE COUPLING OF ALUMINUM 27 IN SOLID ANHYDROUS ALUMINUM CHLORIDE
N64-22078 15-07

ALUMINUM AND ITS OXIDES AS SOURCES OR MODERATORS OF ELECTRONS IN SOLID PROPELLANT ROCKET EXHAUST
AD-431259 N64-22130 15-27

STRETCH-FORMED ALUMINUM SOLAR CONCENTRATOR FOR THERMIONIC CONVERSION SYSTEMS
NASA-CR-56469 N64-22424 15-06

HIGH TEMPERATURE OXIDATION OF DISPERSED ALUMINUM
FTD-TT-62-1833/1&2&4 N64-22640 15-07

EFFECTS OF TITANIUM, ALUMINUM, & GAS CONTENT ON MECHANICAL PROPERTIES OF NIMONIC ALLOY
JPRS-25005 N64-23253 16-33

GLASS VACUUM CHAMBER WITH ALUMINUM ELECTRODES FOR MEASURING X-RAY RADIATION FROM 0.4 TO 1,000,000 ROENTGENS PER MINUTE
FTD-TT-64-31/1&2 N64-23306 16-15

EFFECTS OF ALUMINUM FILLING OF ROTORS ON MAGNETOELECTRIC GENERATOR EFFICIENCY
N64-23571 16-09

EXPANDED ALUMINUM MESH FOR INFLATABLE RIGID REFLECTING DEVICE N64-23718 16-09

X-RAY INVESTIGATION OF FATIGUE OF SINGLE CRYSTALS OF ALUMINUM AT NORMAL AND LOW TEMPERATURES
N64-23833 16-33

LIGHTWEIGHT ALUMINUM HONEYCOMB CASE
PR-2 N64-24066 16-18

QUENCHING AND ANNEALING OF ZONE REFINED ALUMINUM
TR-1 N64-24187 16-18

HYDROSTATIC PRESSURE CYLINDER - ALUMINUM HONEYCOMB CASE

AD-439657 N64-24573 17-33

CRACK PROPAGATION SPEED IN ALUMINUM SHEET USING IMPEDANCE MEASUREMENTS
FF-ME-988 N64-25194 17-33

CHEMICAL MILLING PROCESS FOR ALUMINUM HONEYCOMB ASSEMBLIES
AGR-08-17-64.1 N64-25920 18-17

EFFECT OF QUENCH MEDIA ON ELECTRICAL AND MECHANICAL PROPERTIES OF ALUMINUM
AR-228 N64-25923 18-18

NEUTRON REFLECTION & FLUX VERSUS DEPTH AND NEUTRON DOSE TRANSMISSION VERSUS SLAB THICKNESS FOR ALUMINUM
BRL-1238 N64-26050 18-23

WIDTH OF TURBULENT INNER WAKE BEHIND THREE INCH DIAMETER SOLID ALUMINUM SPHERE
CARDE-TN-488/64 N64-26068 18-11

CHARACTERISTICS OF CONDUCTIVE EXPLOSIVE MIXTURE CONTAINING MODERATE AMOUNTS OF ALUMINUM
TM-1337 N64-26227 18-26

ALUMINUM TRUSS DESIGNS IN SATURN LAUNCH VEHICLE AND APOLLO SPACECRAFT
NASA-TM-X-51843 N64-26368 18-10

PRECISION TURNING OF SPHERICAL SPECIMENS OF ALUMINUM, NICKEL, AND COPPER
Y-1463 N64-26477 18-17

SURFACE PREPARATION AND ELEVATED TEMPERATURE STORAGE EFFECTS ON ADHESIVE BONDS TO ALUMINUM
PA-TM-1255 N64-26755 18-19

MASS SPECTROGRAPHIC ANALYSIS OF ZONE REFINING OF DISTRIBUTION COEFFICIENT OF SILICON IN ALUMINUM
TR-7 N64-26811 18-18

DISLOCATION REARRANGEMENT IN FATIGUE HARDENED ALUMINUM DURING PREPARATION OF SAMPLES FOR TRANSMISSION ELECTRON MICROSCOPY - THEORY OF FATIGUE CRACK PROPAGATION
QPR-2 N64-26864 18-18

PURITY EFFECT ON GRAIN GROWTH IN ALUMINUM AND ALUMINUM-COPPER ALLOY
ARDD-2205-6 N64-27067 19-18

HEATING TIMES FOR SMALL ALUMINUM SAMPLES IMMERSED IN HOT ORGANIC LIQUIDS OR MOLTEN METAL
ARDD-2205-8 N64-27574 19-18

CHEMICAL AND PHYSICAL PROPERTIES OF AMMONIUM NITRATE-ALUMINUM MIXTURE
NOLTR-64-63 N64-27919 20-07

SECTION SIZE INFLUENCE ON MECHANICAL PROPERTIES AND FRACTURE TOUGHNESS OF 7075-T6 ALUMINUM, 6A1-6V-2SN TITANIUM, AND AISI 4340 STEEL
ARMA-TR-64-05 N64-27952 20-18

PHYSICAL PROPERTIES OF LOW DENSITY ALUMINUM-CERAMIC MATERIAL - CASTING TECHNIQUES
NOL-TR-1229 N64-27957 20-18

VACUUM DEPOSITION OF ALUMINUM AND POLISHING MACHINE FOR QUARTZ CRYSTAL RESONATOR FABRICATION
REPT.-2 N64-28151 20-17

DETERMINATION OF TRACE QUANTITIES OF URANIUM IN ALUMINUM - CHEMICAL SEPARATION AND SPECTROPHOTOMETER MEASUREMENT
K-1524 N64-28244 20-07

CELLULAR ALUMINUM MATERIALS FOR USE IN ENERGY DISSIPATION SYSTEMS
NASA-CR-93 N64-28313 20-18

EXTRUSION AND COLD WORKING ASPECTS OF DISPERSION-STRENGTHENED ALUMINUM
EUR-1844.F N64-28417 20-18

PITTING AND GALVANIC CORROSION OF ALUMINUM IN URANIUM ALUMINUM-CLAD FUEL SLUGS IN SUBCRITICAL AND ZERO POWER NUCLEAR REACTORS
DP-911 N64-28506 20-18

ELECTROFORMING OF ALUMINUM FOR SOLAR ENERGY CONCENTRATORS
NASA-CR-56408 N64-29781 21-07

DROP TESTING OF LIGHTWEIGHT ALUMINUM HONEYCOMB CASE
PR-4 N64-30050 21-34

ALUMINUM EXTRACTION CHARACTERISTICS OF CALCIUM ALUMINATES IN WATER AND IN SOLUTIONS OF SODIUM HYDROXIDE AND SODIUM CARBONATE
BM-RI-6528 N64-30129 21-07

HYPERVELOCITY IMPACT OF ALUMINUM PROJECTILES ON VARIOUS METAL TARGETS
ATL-TDR-64-51 N64-30707 22-33

ADDITIVES TO IMPROVE COMPOSITION OF ALUMINUM BATH ELECTROLYTE - SALT WITH MAGNESIUM AND CHLORINE IONS
N64-31415 23-07

PLASTIC COATED ROLLED ALUMINUM FOIL CAPACITOR
QPR-4 N64-32374 23-17

EFFECTS OF IRON AND ALUMINUM ION DISTRIBUTION ON PROPERTIES OF INTERMETALLIC OXIDE CRYSTALS
QTSR-2 N64-32454 23-25

EFFECT OF ALUMINUM OR GLASS FLAKE ADDITION TO SONIC FATIGUE DAMPING COMPOUNDS
LB-31046, SUPPL. 2 N64-32609 23-19

ALUMINUM WELDING TECHNIQUES FOR SPACE VEHICLE APPLICATIONS
NASA-SP-5009 N64-32642 23-17

ELECTRIC PROPERTIES OF ALUMINUM FOR CRYOGENIC ELECTROMAGNETS
NBS-TN-218 N64-32817 24-25

DYNAMIC DEFORMATION OF SINGLE CRYSTAL AND POLYCRYSTALLINE SPECIMENS OF HIGH PURITY ALUMINUM
TR-2 N64-32952 24-18

CREEP AND NOTCH STRENGTH OF ALUMINUM WELDED JOINTS AND FILLER METALS FOR ALUMINUM ALLOYS
NASA-CR-59243 N64-33289 24-18

SINTERED ALUMINUM POWDER SHEET IN MACHINE BUILDING
JPRS-27004 N64-33343 24-18

ELECTRON EMITTING PROPERTIES OF SMALL CESIUM ANTIMONIDE, ALUMINUM, AND SULFUR PARTICLES
AFCRL-64-689 N64-33531 24-25

HARD ANODIZED ALUMINUM LAPS FOR PREPARATION OF HIGHLY POLISHED SURFACES N64-33610 24-17

REACTIONS OF BERYLLIUM WITH ALUMINUM, NITROGEN, BORON, AND PHOSPHORUS
NAVWEPS-8204 N64-34003 24-18

ALUMINUM ALLOY
NOTCH SENSITIVITY OF ALUMINUM ALLOYS COMPARED WITH STRUCTURAL STEEL - STRESS CONCENTRATION INDEX
N64-10145 01-18

VACANCY CLIMB OF HELICAL AND LOOP DISLOCATIONS IN ALUMINUM-MAGNESIUM ALLOY AND VACANCY BINDING - ENERGY ESTIMATION
UCRL-10879 N64-10185 01-18

CHEMICAL AND MECHANICAL PROPERTIES OF ALUMINUM, NICKEL, STEEL AND TITANIUM ALLOYS
NASA-CR-52533 N64-10341 01-18

MOTION DETERMINATION OF ALUMINUM MELTS USING RADIOACTIVE ISOTOPES DURING CRYSTALLIZATION
JPRS-19372 N64-10586 01-18

INTERACTION OF ZINC-ALUMINUM BRAZES WITH ALUMINUM ALLOYS - FLOW & WETTING PROPERTIES
N64-10805 02-18

ALLOY CASTING OF TITANIUM AND ALUMINUM IN VACUUM AND ELECTRIC FURNACES

JPRS-22175 N64-11276 02-18

MECHANICAL PROPERTY IMPROVEMENT IN WELDED ALUMINUM ALLOYS - WELDING TECHNIQUES
AD-418106 N64-11373 02-18

FATIGUE PROPERTIES OF ALUMINUM AND TITANIUM ALLOYS AT LOW TEMPERATURES
NASA-CR-55027 N64-11818 03-18

DIFFUSION COUPLE BONDING TECHNIQUE FOR OBTAINING DATA ON DIFFUSION KINETICS OF ALUMINUM-NICKEL-URANIUM SYSTEM
NAA-SR-8387 N64-11911 03-25

SPOT WELDING OF SINTERED ALUMINUM POWDER WITH ALUMINUM ALLOYS
JPRS-22422 N64-12010 03-17

ABNORMAL GRAIN GROWTH IN ALUMINUM & ALUMINUM ALLOYS - BIBLIOGRAPHY
SRB-63-3 N64-12013 03-18

TEMPERATURE EFFECT ON DELAYED FRACTURE OF ALUMINUM ALLOY IN PRESENCE OF LIQUID ZINC AMALGAM
FA-R-1695 N64-12652 04-18

SWELLING OF ALUMINUM-CLAD ALUMINUM-PLUTONIUM ALLOYS ON POSTIRRADIATION ANNEALING
ANL-6651 N64-12697 04-18

TENSILE AND YIELD STRENGTH OF POWDERED ALUMINUM ALLOYS
REPT.-7-63-AP59-S N64-12867 04-18

THERMAL, X-RAY, AND MICROSCOPIC ANALYSIS OF PHASE DIAGRAM FOR TERNARY ALLOYS OF IRON, ALUMINUM, AND URANIUM
MCW-TR-1 N64-12907 04-18

IRRADIATION AND POSTIRRADIATION ANNEALING OF SOME ALUMINUM-BASE URANIUM FUELS
ANL-6665 N64-13025 04-18

WELDABLE HIGH-STRENGTH ALUMINUM ALLOYS - LITERATURE REVIEW AND BIBLIOGRAPHY
NASA-CR-52372 N64-13067 04-18

METALLURGICAL AND MECHANICAL PROPERTIES OF HEAT-TREATED MOLYBDENUM-ALUMINUM-TITANIUM ALLOY FORGING
A247 N64-13101 04-18

FABRICATION CHARACTERISTICS OF ALUMINUM-VANADIUM-MOLYBDENUM-TITANIUM BASE ALLOY
A248 N64-13102 04-18

DRY FILM LUBRICANTS APPLIED TO ALUMINUM AND MAGNESIUM ALLOYS
A262 N64-13253 04-19

CORROSION PREVENTION FOR ALUMINUM, STEEL AND MAGNESIUM TRIMETAL ASSEMBLIES USING STANNOUS PYROPHOSPHATE COATINGS
RIA-63-3471 N64-14013 05-19

EFFECT OF SILVER ADDITION ON WELDING OF ALUMINUM-MAGNESIUM ALLOYS
ARL/MET-18 N64-14052 05-18

NEW FUEL ELEMENT COMPOSITIONS, ALUMINUM ALLOY TESTING AT HIGH TEMPERATURES, AND DAMAGE THRESHOLD INVESTIGATION FOR BERYLLIUM
IDO-16934 N64-14077 05-23

TEAR RESISTANCE OF 80 TYPES OF ALUMINUM ALLOY SHEET AS EVALUATED BY KAHN-TYPE TEAR TESTS
REPT. 9-62-42 N64-14456 06-18

FUSELAGE TORSIONAL TEST OF ALUMINUM ALLOY MONOCOQUE CYLINDERS
FTDM-2879 N64-15572 07-33

FATIGUE TESTING DATA ON ALUMINUM ALLOY FOR EVALUATING METHODS OF ASSESSING CUMULATIVE DAMAGE
FTDM-2892 N64-15573 07-18

MECHANICAL PROPERTIES OF STEELS, ALUMINUM, NICKEL, TITANIUM, AND COBALT ALLOYS FOR CRYOGENIC AEROSPACE STRUCTURES
SSD-63-271 N64-15594 07-14

CORROSION OF ALUMINUM ALLOYS USED AS FUEL ELEMENT CLADDING FOR ADVANCED TEST REACTOR /ATR/
ORNL-3541 N64-15718 07-14

ALUMINUM ALLOYS DETERIORATION IN PRESENCE OF MERCURY AND CESIUM
NASA-CR-30 N64-15968 07-11

FATIGUE TEST ON UNNOTCHED SPECIMENS OF ALUMINUM ALLOY AND STAINLESS STEEL
MS-108 N64-16200 08-14

MECHANICAL PROPERTIES OF ALUMINUM ALLOYS AND ALUMINUM-BASED FUEL DISPERSION AT HIGH TEMPERATURE
ORNL-3557 N64-16536 08-11

ELECTRON MICROSCOPIC FRACTOGRAPHIC STUDIES OF ALUMINUM ALLOYS
DMIC-MEMO-186 N64-16696 08-33

SOLIDIFICATION RATE EFFECT ON BETA PHASE IN 5456 ALUMINUM ALLOY
NASA-TM-X-54616 N64-16703 08-11

STRESS-CORROSION CRACKING OF HIGH STRENGTH ALUMINUM ALLOYS
NASA-CR-55857 N64-16734 08-14

ULTRASONIC SPOT WELDING OF ALUMINUM ALLOY SHEET
A461 N64-16781 08-17

DIFFUSION OF COBALT AND IRON IN IRON-ALUMINUM ALLOYS N64-17034 09-25

X-RAY SPECTROSCOPIC STUDIES OF IRON-MOLYBDENUM & IRON-ALUMINUM ALLOYS N64-17055 09-23

ABSORPTIVE ACTIVITY OF COPPER & ALUMINUM BASED ALLOYS WITH SMALL ADMIXTURES N64-17057 09-23

THERMAL & ELECTRIC PROPERTIES OF COPPER, SILVER, GOLD, ALUMINUM, & COPPER BASE ALLOYS N64-17072 09-10

ADHESION OF SCOTCHCAL TO UNPAINTED, PRIMED, AND LACQUERED ALUMINUM ALLOY PANELS
T5R-1 N64-17142 09-17

ELECTRON BEAM WELDING OF NIOBIUM, TUNGSTEN, MOLYBDENUM, NICKEL, AND ALUMINUM ALLOYS N64-17211 09-14

EFFECT OF ALLOY COMPOSITION ON PROPERTIES OF ALUMINUM-COPPER CASTING ALLOYS
NASA-CR-55908 N64-17673 09-14

MACHINE CONTROLLED WIDE-WEAVE TECHNIQUE FOR MULTIPASS VERTICAL WELDING OF THICK ALUMINUM ALLOYS
NASA-CR-55902 N64-17693 09-17

INFLUENCE OF THERMAL TREATMENTS ON MICROSTRUCTURE AND MECHANICAL PROPERTIES OF ALUMINUM-ALUMINUM OXIDE ALLOYS
NASA-CR-53558 N64-18305 10-23

CORROSION RESISTANCE OF EXTRUSIONS OF ALUMINUM ALLOY POWDERS IN HIGH TEMPERATURE WATER
ANL-6785 N64-18320 10-14

MANGANESE-ALUMINUM ALLOYS FOR PERMANENT MAGNET MATERIAL
ASD-TDR-63-422 N64-18575 11-14

IMPURITY EFFECT ON HEAT RESISTANCE OF ALUMINUM-BASED COPPER ALLOYS
FTD-MT-63-148 N64-18686 11-14

FUSIBILITY OF NICKEL-CHROMIUM-NICKEL ALUMINUM SYSTEMS - LIQUIDUS CURVES
FTD-MT-63-174 N64-18690 11-25

COMPARATIVE STUDY OF 354-T61 AND 356-T6 ALUMINUM-SILICON-COPPER-MAGNESIUM CASTING ALLOYS FOR MECHANICAL PROPERTY ADVANTAGES
SM-44636 N64-18708 11-14

EXPLORATION OF ALUMINUM-SILICON-MAGNESIUM ALLOY SYSTEM
SM-43109 N64-18711 11-18

EFFECT OF MAGNESIUM CONCENTRATION ON MECHANICAL PROPERTIES OF 356-T6 ALUMINUM ALLOYS
SM-43094 N64-18712 11-18

VARIATION EFFECT OF BERYLLIUM CONCENTRATION ON MECHANICAL STRENGTH OF 356-T6-TYPE ALUMINUM ALLOY
SM-44658 N64-18713 11-18

HIGH TEMPERATURE NONREFLECTIVE EROSION RESISTANT FINISH FOR ALUMINUM ALLOYS USING SOLUBLE INORGANIC COMPOUNDS & ANODIZING PROCESS
AD-432321 N64-18770 11-19

FATIGUE TESTS OF VARIOUS ALUMINUM ALLOY RIVETED JOINTS
RES. REPT. 11 WGLR-PAPER-34 N64-19233 11-18

KINETICS OF TRANSFORMATION BY QUENCHING OF BETA-PHASE IN ALLOYS OF URANIUM WITH ALUMINUM, SILICON, IRON, NICKEL, MOLYBDENUM, & FISSION
N64-19444 12-18

COMPRESSIVE YIELD OF ALUMINUM ALLOY PLATE SUBJECTED TO DUPLEX THERMAL EXPOSURE
FTDR-3152 N64-20055 13-18

TENSION AND COMPRESSION TESTING OF ALUMINUM ALLOY AFTER MULTIPLE TEMPERATURE EXPOSURE - STRESS-STRAIN DIAGRAMS
FZR-12-249 N64-20075 13-18

FRICTION AND WEAR OF NICKEL-ALUMINUM ALLOYS AND SOME SULFUR-MODIFIED STEELS IN VACUUM
NASA-TN-D-2307 N64-20192 13-17

JOINING OF STEEL AND OTHER WEAR-RESISTANT METALS TO ALUMINUM ALLOYS
FA-M64-8-1 N64-20407 13-17

IMPERFECTIONS OF 2319 ALUMINUM ALLOY WELD WIRE
NASA-CR-56100 N64-20687 13-18

CHEMICAL REACTION OF NICKEL PLATE ON ALUMINUM ALLOYS IN HIGH AND LOW TEMPERATURES AND AQUEOUS FLOW
HW-81196 N64-20835 14-18

BLOCKING OF DISLOCATIONS BY ALUMINUM OXIDE PARTICLES IN ALUMINUM-ALUMINUM OXIDE ALLOY
EUR-584.F N64-20877 14-25

PROPERTIES AND EFFECTS OF THICK OXIDE FILMS FORMED BY ANODIZATION OF ALUMINUM AND TITANIUM ALLOYS
JPRS-24627 N64-20919 14-18

CELLULAR STRUCTURE OF THICK OXIDE FILMS OF ANODIZED ALUMINUM AND ALUMINUM ALLOYS
N64-20920 14-18

MECHANICAL PROPERTY CHANGES OF ALUMINUM ALLOYS WITH INCREASING THICKNESS OF OXIDE FILM FORMED BY ANODIZATION
N64-20921 14-18

PHYSICAL AND CHEMICAL PROPERTIES OF THICK OXIDE FILMS OF ANODIZED ALUMINUM ALLOYS
N64-20923 14-18

FATIGUE TESTS OF STAINLESS STEEL AND TITANIUM-ALUMINUM ALLOY SHEETS AT VARIOUS TEMPERATURES
NASA-CR-23 N64-21251 14-18

ALUMINUM ALLOY CASTINGS WITH HIGH IMPACT STRENGTH AT LOW TEMPERATURES
NASA-CR-58 N64-21254 14-18

GRAIN BOUNDARY HARDENING IN NICKEL-ALUMINUM DUE TO OXYGEN CONTAMINATION
ASD-TDR-63-309, PT. II N64-21442 14-18

MECHANISM OF STRESS CORROSION OF ALUMINUM ALLOY
REPT.-5-OE-33 N64-21498 15-18

X-RAY K ABSORPTION SPECTRUM OF NICKEL-ALUMINUM ALLOYS
TR-64-1 N64-21535 15-23

EFFECT OF CHEMICAL COMPOSITION ON ARTIFICIAL AGE HARDENING & STRESS CORROSION CRACKING OF HIGH STRENGTH ALUMINUM-ZINC-MAGNESIUM-COPPER ALLOYS
RSIC-177 N64-21912 15-18

BENDING & AXIAL STRESS FATIGUE STRENGTH OF ALUMINUM-MAGNESIUM-SILICON ALLOY
N64-21987 15-33

CYCLIC LOADING OF ALUMINUM ALLOY
N64-22092 15-33

THERMOCONDUCTIVITY EFFECTS ON SURFACE FLATNESS, ROUGHNESS, AND TENSION IN BOLTED JOINT BETWEEN ALUMINUM ALLOYS
RAE-TN-WE-46 N64-22371 15-13

ULTRASONIC WELDING OF ALUMINUM ALLOY SHEET AND CAPSULES FOR HERMETIC SEALING
RR-61-99 N64-22551 15-17

ELONGATION MEASUREMENTS OF HEAT TREATED ALUMINUM ALLOY CASTINGS
AT28 N64-22574 15-18

HYDRDPURIFICATION OF REFINED DIESEL OIL WITH ALUMINUM-NIOBIUM-MOLYBDENUM CATALYST
FTD-TT-62-1735/1&2&4 N64-22632 15-07

TEMPERATURE EFFECT ON FRACTURE STRENGTH OF TITANIUM-ALUMINUM-VANADIUM ALLOY SHEET
SM-44640 N64-22973 16-18

FABRICATION OF ALUMINUM-BASE 250-MEGAWATT ADVANCED TEST REACTOR FUEL ELEMENTS
ORNL-3632 N64-23332 16-26

ADDITIONAL ARGON STREAM TO INCREASE DEPTH OF MELTING IN ARGON ARC WELDING OF ALUMINUM ALLOYS
FTD-TT-62-1754/1&2 N64-23409 16-18

METALLURGICAL STUDY OF TUNGSTEN CARBIDE-COBALT AND NICKEL-ALUMINUM ALLOYS
FTD-MT-63-199 N64-24246 17-18

HARDNESS AND ELECTRICAL PROPERTIES OF NICKEL-ALUMINUM ALLOYS IN BETA-PHASE REGION
N64-24248 17-18

PRESS WELDING OF ROLLED SECTIONS OF ALUMINUM-MAGNESIUM ALLOYS
N64-24259 17-18

MECHANICAL PROPERTIES DATA CENTER - TITANIUM-ALUMINUM-VANADIUM ALLOY
AD-437627 N64-25033 17-18

TENSILE AND COMPRESSIVE STRESS-STRAIN PROPERTIES OF STRETCHED ALUMINUM ALLOY PLATES
ML-TDR-64-105 N64-25241 17-18

CONVERSION COATINGS FOR ALUMINUM ALLOYS - ANNOTATED BIBLIOGRAPHY
NASA-CR-56317 N64-25766 17-18

REACTOR MATERIALS, FUEL ELEMENTS, RADIOISOTOPES AND RADIATION, FISSION PRODUCTS, AND MECHANICAL PROPERTIES OF ZIRCONIUM AND ALUMINUM ALLOYS
BMI-1672 N64-25947 18-19

BREAKING STRENGTH AND ENDURANCE TESTS ON ALUMINUM ALLOY AND BRASS TURNBUCKLES FOR AIRCRAFT CONTROL CABLE FITTINGS
SEG-TDR-64-2 N64-25987 18-18

STRESS CORROSION OF ALUMINUM ALLOYS
ADN-02-16-63.1 N64-26040 18-18

REACTOR MATERIALS, ALUMINUM ALLOYS, FUEL MATERIALS AND FISSION PRODUCT DEPOSITION STUDIES
BMI-1669 N64-26546 18-23

FATIGUE PROPERTIES OF TWO CASTING ALUMINUM ALLOYS CONTAINING MICROPOROSITY
ARL/SM-282 N64-26627 18-18

PURITY EFFECT ON GRAIN GROWTH IN ALUMINUM AND ALUMINUM-COPPER ALLOY
AROD-2205-6 N64-27067 19-18

EFFECT OF SECTION SIZE ON NOTCH TENSILE STRENGTH OF HIGH STRENGTH STEEL, ALUMINUM ALLOYS, AND PLEXIGLASS
SURI-MET-1078-664-12 N64-27083 19-17

CORROSION-RESISTANCE, WELDABILITY, HEAT TREATMENT, AND DIFFUSION RATE TESTING OF ALUMINUM-MAGNESIUM-SILICON, ALUMINUM-MAGNESIUM, AND ALUMINUM-ZINC-MAGNESIUM ALLOYS
JPRS-25642 N64-27265 19-18

TABLES OF ENGINEERING PROPERTIES OF ALUMINUM ALLOY
REPT.-638049 N64-27336 19-18

MECHANICAL PROPERTIES OF WELDED FOUNDRY DEFECTS IN A-356 ALUMINUM ALLOY CASTINGS
SM-45949 N64-27375 19-18

EFFECT OF HYDROGEN CONTENT ON MECHANICAL PROPERTIES OF TITANIUM-6 ALUMINUM-4 VANADIUM BAR AT MINUS 423 DEG F
SM-44661 N64-27516 19-18

RESISTOMETRIC INVESTIGATION OF RECOVERY OF DILUTED ALUMINUM-MAGNESIUM ALLOYS COLD-WORKED AT LIQUID NITROGEN TEMPERATURE
REPT.-13.178/6401.105 N64-27691 19-18

PRODUCTION METHOD FOR FABRICATION OF ALUMINUM ALLOY - FORGED FITTINGS FOR TANKAGE SYSTEM OF SATURN LAUNCH VEHICLE
NASA-CR-58029 N64-27895 20-18

SECTION SIZE INFLUENCE ON MECHANICAL PROPERTIES AND FRACTURE TOUGHNESS OF 7075-T6 ALUMINUM, 6A1-6V-2SN TITANIUM, AND AISI 4340 STEEL
ARMA-TR-64-05 N64-27952 20-18

SURFACE AND ISOMERIZATION CHARACTERISTICS OF PLATINUM-SILICON-ALUMINUM N64-28049 20-07

EFFECT OF COMBINED PRIOR STRESS AND ATMOSPHERIC CORROSION ON FATIGUE LIFE OF ALUMINUM ALLOYS
NASA-TN-D-2359 N64-28093 20-18

PROPRIETARY ALUMINUM BRONZE - SMELTING, POURING TECHNIQUE, CASTING, HEAT TREATMENT, PROPERTIES AND APPLICATIONS
JPRS-26322 N64-28427 20-18

THERMAL STRESS IN TWO-PHASE ALUMINUM-SILICON ALLOYS
TR-5 N64-28458 20-13

STRESS CORROSION OF ALUMINUM ALLOYS
QR-2 N64-28541 20-33

TENSILE PROPERTIES AND NOTCH SENSITIVITY OF ALUMINUM ALLOYS AT CRYOGENIC TEMPERATURES
N64-28693 20-18

WELDING HIGH STRENGTH ALUMINUM ALLOYS IN PLATE THICKNESSES SUITABLE FOR APPLICATION AT CRYOGENIC TEMPERATURES
NASA-CR-58616 N64-28846 20-18

TEMPERATURE EFFECT ON PROTECTION BALLISTIC LIMIT FOR PROJECTILE PENETRATION OF ALUMINUM ALLOY ARMOR PLATE
M64-3-1 N64-28870 20-18

MECHANICAL PROPERTIES OF ALUMINUM-MAGNESIUM ALLOYS
N64-29047 21-18

ALUMINUM ALLOYS FOR PRESSURE CASTING
N64-29048 21-18

ROTATING BEAM FATIGUE TESTS FOR TITANIUM-ALUMINUM-VANADIUM ALLOY AT NORMAL & ELEVATED TEMPERATURES
ICAF-251 N64-29362 21-33

LOW TEMPERATURE ELECTRIC RESISTANCE STUDY OF PRE-PRECIPITATION PROCESS IN SUPERSATURATED ALUMINUM-MAGNESIUM ALLOY
REPT.-13.177/6401.104 N64-29410 21-18

HIGH VOLTAGE ELECTRON BEAM WELDING OF ALUMINUM ALLOYS
NASA-CR-58563 N64-29567 21-17

PARTIAL-PENETRATION WELDING OF ALUMINUM ALLOY STRUCTURES FOR RETENTION OF COMPRESSIVE STRENGTH
NAVWEPS-8495 N64-29623 21-14

WELDING TECHNIQUES AND FILLER METALS FOR HIGH STRENGTH ALUMINUM ALLOYS
NASA-CR-58536 N64-29705 21-18

WELDING CAST ALUMINUM ALLOY PLATE TO WROUGHT ALUMINUM ALLOY PLATE USING GAS TUNGSTEN-ARC PROCESS
FA-R-1726 N64-30599 22-18

CRACK NUCLEATION AND PROPAGATION IN FATIGUE OF ALUMINUM ALLOYS
NLR-TR-M.2122 N64-30638 22-18

MECHANICAL PROPERTIES OF STRESS-RELIEVED ALUMINUM ALLOY
QR-4 N64-31321 22-18

COMPOSITION AND TEMPERATURE EFFECTS ON MECHANICAL PROPERTIES OF ALUMINUM ALLOYS WITH MAGNESIUM DURING CASTING IN CHILL MOLD N64-31421 23-18

APPEARANCE OF LINES OF FLUIDITY DURING DEFORMATION OF ALUMINUM ALLOYS N64-31423 23-17

ALUMINUM ALLOY INGOT GORE SEGMENT FABRICATION FOR SATURN V LAUNCH VEHICLE BULKHEADS
NASA-TM-X-53033 N64-31724 23-17

EXPLOSIVE FORMING TECHNIQUE TO PRODUCE TORUS TANK SUMP SEGMENTS OF ALUMINUM ALLOY 7039
NASA-TM-X-53117 N64-31726 23-17

CRACK FORMATION AND FRACTURE IN ALUMINUM-SILICON ALLOYS
TR-8 N64-32028 23-18

FREE ELECTRON THEORY OF SPECIFIC HEATS OF DILUTE ALLOYS AND APPLICATION TO COPPER AND ALUMINUM BASED ALLOYS
FTR-5 N64-32134 23-25

EFFECTS OF VARIABLE-AMPLITUDE AXIAL LOADS AND GROUND-AIR-GROUND CYCLES ON FATIGUE LIFE OF ALUMINUM ALLOYS
NASA-TN-D-1584 N64-32426 23-18

FRACTURE TOUGHNESS, FATIGUE-CRACK PROPAGATION, AND CORROSION CHARACTERISTICS OF ALUMINUM ALLOY PLATES FOR WING SKINS
AD-447686 N64-32546 23-18

HEAT TREATMENT FOR IMPROVING MECHANICAL PROPERTIES OF WELDED JOINTS IN HIGH STRENGTH ALUMINUM ALLOYS
REPT.-2-64-16 N64-32622 23-18

TENSILE, AXIAL FATIGUE, AND CRACK PROPAGATION PROPERTIES OF ALUMINUM ALLOY, NICKEL MARAGING STEEL, HASTELLOY, AND NICKEL BASE ALLOY
GD/A-63-0818-3 N64-32819 24-18

PLASMA TORCH CLEANING OF ALUMINUM ALLOY JOINTS BEFORE WELDING
MRI-106.04 N64-32943 24-17

CREEP AND NOTCH STRENGTH OF ALUMINUM WELDED JOINTS AND FILLER METALS FOR ALUMINUM ALLOYS
NASA-CR-59243 N64-33289 24-18

YIELD LOCUS FOR ALUMINUM-TITANIUM ALLOY
PR-5 N64-33873 24-18

ALUMINUM COMPOUND
NUCLEAR MAGNETIC RESONANCE IN TRANSITION METAL-ALUMINUM INTERMETALLIC COMPOUNDS
AD-423292 N64-12986 04-18

INFRARED SPECTRUM OF LITHIUM FLUORIDE, ALUMINUM FLUORIDE, AND LITHIUM METABORATE BY MATRIX ISOLATION METHOD
IITRI-C6013-2 N64-13634 05-23

HEAT OF FORMATION OF HEXAUREA ALUMINUM III PERCHLORATE

PA-TM-1295 N64-14099 05-13

EMISSION SPECTRA OF ALUMINUM AND BERYLLIUM FLUORIDES
IITRI-C6013-3 N64-17475 09-23

CHEMICAL REACTION TO PREPARE ALUMINUM-SILICON POLYMERIC COMPOUNDS
ASIC-134 N64-17480 09-07

HEAT OF FORMATION OF ALUMINUM CARBIDE
BM-RI-6415 N64-17985 10-13

SPECTROMETER FOR ALUMINUM FLUORIDE AND ALUMINUM CHLORIDE STUDIES N64-18802 11-07

INFRARED SPECTRUM ANALYSIS OF LITHIUM FLUORIDE, ALUMINUM FLUORIDE, AND LITHIUM BORATE BY MATRIX ISOLATION N64-18805 11-07

SUBLIMATION AND VAPORIZATION BEHAVIOR OF MIXED ALUMINUM-BORON-LITHIUM COMPOUNDS N64-18819 11-13

HEAT CAPACITY OF LIGHT-ELEMENT MIXED METAL COMPOUNDS AND SOLID VAPOR EQUILIBRIUM OF ALUMINUM HALIDES N64-18821 11-13

THERMAL EXPANSION DIFFERENCES BETWEEN MATRIX AND REINFORCEMENT ON STRENGTH RETENTION OF GLASS REINFORCED ALUMINUM PHOSPHATE LAMINATES
IER-4 N64-20179 13-13

FAILURE IN SILICON TRANSISTORS DUE TO FORMATION OF GOLD-ALUMINUM-SILICON COMPLEX AT LEADS N64-20991 14-25

POLYMERIZATION OF PHENYLENE GROUPS WITH SILICON-NITROGEN-SILICON BONDS BY ALUMINUM ETHOXIDE
NASA-CR-55800 N64-25918 18-06

X-RAY DIFFRACTION ANALYSIS OF CHRYSOBERYL /ALUMINUM-BERYLLIUM OXIDE/ CRYSTAL STRUCTURE, SYNTHESIS, AND MAGNETIC PROPERTIES
TR-183 N64-26641 18-25

FLUIDIZED-BED CALCINATION PROCESS FOR ALUMINUM NITRATE WASTES FROM REACTOR FUELS
IDO-14627 N64-27075 19-07

THERMODYNAMICS OF ALUMINUM-BORON-OXYGEN AND BERYLLIUM-BORON-OXYGEN SYSTEMS
GR-8 N64-27606 19-13

THERMODYNAMICS OF ALUMINUM-BORON-OXYGEN AND BERYLLIUM-BORON-OXYGEN SYSTEMS
GR-5 N64-27607 19-13

PHYSICAL PROPERTIES OF LOW DENSITY ALUMINUM-CERAMIC MATERIAL - CASTING TECHNIQUES
NOL-TR-1229 N64-27957 20-18

PHASES AND TWINNING IN TERNARY ALUMINUM BORODCARBIDE CRYSTALS
TR-2 N64-29241 21-25

CHEMILUMINESCENCE OF TRIMETHYL ALUMINUM ARTIFICIAL CLOUD IN UPPER ATMOSPHERE - FIREFLY PROJECT N64-31392 23-12

ALUMINUM HYDRIDE
ANNOTATED BIBLIOGRAPHY ON SYNTHESIS AND PHYSICAL PROPERTIES OF ALUMINUM HYDRIDE AND RELATED COMPOUNDS
TDR-269/4210-10/-4 N64-21026 14-19

ALUMINUM OXIDE
SINTERED ALUMINUM OXIDE BONDING USING SILICATE BRAZING FOR REACTOR CLADDING
EUR-274.F N64-10034 01-19

FORMATION OF REFRACTORY FIBERS OR WHISKERS BY VAPOR PHASE GROWTH - ALUMINUM HALIDE OXIDATION, ALUMINUM OXIDE REDUCTION, AND RECRYSTALLIZATION
AMRA-CR-63-03/1 N64-13037 04-18

ALUMINUM OXIDE - CRYSTAL STRUCTURE, ORIENTATION, & RECRYSTALLIZATION
EUR-403.I N64-13051 04-19

ALUMINUM OXIDE CERAMIC MICROMINIATURE TRANSISTOR PACKAGE
AD-403859 N64-13116 04-09

ADHESION OF NICKEL, NICKEL-TITANIUM, & NICKEL-CHROMIUM DROPS TO ALUMINUM OXIDE SINGLE CRYSTAL PLAQUES
AMRA-CR-63-01/4 N64-13998 05-19

ALUMINUM OXIDE SIZE DISTRIBUTIONS FROM HIGH PRESSURE SOLID PROPELLANT COMBUSTION
AIAA PAPER-64-115 N64-14854 06-26

APPLICATION OF DOUBLE CLAMSHELL ARC IMAGING SYSTEM TO THERMAL EXPANSION & OTHER PHYSICAL PROPERTY MEASUREMENTS OF ALUMINA AND ZIRCON
AFCRL-63-591 N64-15571 07-15

EROSION AND THERMAL SHOCK CHARACTERISTICS OF TUNGSTEN UNDER CONDITIONS OF SIMULATED ALUMINIZED ROCKET PROPELLANT EXHAUST N64-15821 07-18

HIGH TEMPERATURE CALORIMETRY - ENTHALPY OF SODIUM CHLORIDE AND ALUMINUM OXIDE N64-16681 08-19

ALUMINA WHISKERS AND WHISKER REINFORCED COMPOSITES USED AS FIBER REINFORCED MATERIALS
AD-432121 N64-16833 08-18

BONDING IN OXIDE-FIBER REINFORCED MATERIALS - ALUMINUM OXIDE & NICKEL ALLOYS
AMRA-CR-63-01/5 N64-16993 09-19

ALUMINA CERAMICS FOR AVIATION TECHNOLOGY
JPRS-23706 N64-17231 09-19

ALUMINUM OXIDE AS POROUS SUBSTRATE FOR METAL FILM RESISTORS
AD-433270 N64-17630 09-09

ALUMINUM OXIDE CRUCIBLE FAILURE IN PRESENCE OF NICKEL-COPPER-IRON ALLOYS
RTD-TDR-63-4159 N64-18024 10-19

INFLUENCE OF THERMAL TREATMENTS ON MICROSTRUCTURE AND MECHANICAL PROPERTIES OF ALUMINUM-ALUMINUM OXIDE ALLOYS
NASA-CR-53558 N64-18305 10-23

ELECTRIC PROPERTIES OF ALUMINUM OXIDE CERAMIC COMPOSITIONS INCLUDING SAPPHIRE, SINTERED SINGLE CRYSTAL, AND POLYCRYSTALLINE MATERIAL
DS-136 N64-18384 10-19

ENERGY SPECTRA AND ANGULAR DISTRIBUTIONS OF ELECTRONS TRANSMITTED THROUGH ALUMINUM OXIDE FOILS
NASA-SP-3008 N64-18416 10-23

REINFORCEMENT OF IRON- AND NICKEL-CHROMIUM ALLOYS WITH SINGLE CRYSTAL ALUMINA FIBERS
AD-435044 N64-18772 11-18

VAPOR PRESSURE OVER OXIDE SYSTEMS OF ALUMINUM, BORON, BERYLLIUM, AND LITHIUM MEASURED AS FUNCTION OF COMPOSITION N64-18820 11-13

QUANTITATIVE ANALYSIS OF ALUMINUM IN COMPRESSED AND SINTERED MIXTURES OF ALUMINUM AND ALUMINUM OXIDE POWDERS
EUR-585.I N64-19043 11-07

SURFACE FAILURE OF ALUMINUM OXIDE BALLS UNDER REPEATED STRESSES APPLIED IN ROLLING CONTACT
NASA-TN-D-2274 N64-20190 13-17

REDUCTION CELL WITH GRAPHITE CRUCIBLE AND BORON NITRIDE LINER FOR REDUCTION OF ALUMINUM OXIDE
BM-RI-6265 N64-20506 13-17

ALUMINUM OXIDE PREPARED FROM CLAY BY ELECTROLYTIC, CHEMICAL, AND ETHANOL PROCESSES
BM-RI-6229 N64-20556 13-17

BLOCKING OF DISLOCATIONS BY ALUMINUM OXIDE PARTICLES IN ALUMINUM-ALUMINUM OXIDE ALLOY
EUR-584.F N64-20877 14-25

MIXING MECHANISMS STUDY BY MEASURING AMOUNT OF

SPINEL FORMED BY SINTERING ALUMINUM & MAGNESIUM OXIDE POWDERS
ASD-TDR-62-732, PT. II N64-21236 14-17

ALUMINUM AND ITS OXIDES AS SOURCES OR MODERATORS OF ELECTRONS IN SOLID PROPELLANT ROCKET EXHAUST
QSR-6 N64-21797 15-24

HIGH TEMPERATURE TESTING OF ALUMINUM AND BERYLLIUM OXIDE SENSORS IN NONOXIDIZING ATMOSPHERES
GEMP-82 N64-22055 15-15

TITANIUM OXIDE COATING ON SINGLE CRYSTAL ALUMINA FIBERS
TR-2 N64-22522 15-18

THERMODYNAMIC PROPERTIES OF ALUMINUM-BORON-OXYGEN AND BERYLLIUM-BORON-OXYGEN SYSTEMS
QR-7 N64-22708 15-07

WETTING AND BONDING BETWEEN METALS AND OXIDES - ALUMINUM OXIDE AND NICKEL SYSTEM
AMRA-CR-63-01/6 N64-22709 15-17

INFRARED RADIATION PROPERTIES OF FLAME SPRAYED CERAMIC COATINGS, OXIDES OF ALUMINUM, CHROMIUM, AND ZIRCONIUM, AND SOLID BORON NITRIDE
AMRA-TR-64-03 N64-22710 15-25

ELECTRIC PROPERTIES OF CERAMIC ALUMINUM OXIDE INSULATOR N64-22981 16-09

HIGH TEMPERATURE HEATERS FORMED BY VACUUM DEPOSITION ON PLASMA-FLAME SPRAYED DIELECTRIC SUBSTRATES OF ALUMINUM OXIDE
ASD-TDR-62-662 N64-24097 16-13

TENSILE STRENGTH OF BRITTLE MATERIALS - ALUMINUM OXIDE CERAMICS
ML-TDR-64-49 N64-25341 17-19

ELECTRODEPOSITION OF DISPERSION-STRENGTHENED GOLD ALUMINUM OXIDE ALLOYS
WVT-RR-6321 N64-25720 17-18

PERMEATION OF FOSSIL FUEL COMBUSTION GAS DETERMINED FOR ALUMINUM OXIDE, BERYLLIUM OXIDE, AND SILICON CARBIDE SAMPLES USING PROTOTYPE BURNER - THERMIONIC CONVERTERS
QTR-3 N64-28078 20-06

FUEL ELEMENT FABRICATION - FISSIONABLE MATERIAL PARTICLES VAPOR-COATED WITH ALUMINUM OR BERYLLIUM OXIDE AND DISPERSED IN CERAMIC MATRIX
BMI-1675 N64-28124 20-18

PHYSICAL PROPERTIES OF PRODUCTION GRADE ALUMINUM OXIDE-COPPER ALLOY RODS
JPRS-26000 N64-28444 20-18

ELECTRON MICROGRAPHIC STUDIES AND HARDNESS TESTS MADE OF COPPER-SILICON DIOXIDE ALLOY
N64-28844 20-18

MAGNETOPLASMADYNAMIC GENERATOR TEST LOOP AND ALUMINUM OXIDE DUCT N64-30436 22-10

PHONON INTERACTIONS IN CRYSTALS - APPLICATION TO AMPLIFIERS, OSCILLATORS, AND FREQUENCY CONVERTERS OF MICROWAVE ACOUSTIC ENERGY
QTR-4 N64-30908 22-25

MOLECULAR RESONANCE OF ALUMINUM OXIDE FROM FIREFLY PROJECT SPECTROSCOPY IN UPPER NIGHT ATMOSPHERE
N64-31393 23-12

EXTRACTING ALUMINUM OXIDE FROM BLAST-FURNACE SLAG
N64-31418 23-07

ALUMINUM OXIDE REDUCTION BY PROPELLANT COMBUSTION GASES AT HIGH TEMPERATURE
SSD-TDR-64-160 N64-31982 23-26

ALUMINUM AND SODIUM NITRATE EMITTER USED WITH MONOCHROMATOR-PHOTOMETER FOR MEASURING IONOSPHERIC TEMPERATURE
NASA-TT-F-8977 N64-33384 24-12

ALUMINUM SILICATE
HEAT CONTENT AND ENTROPY OF ALUMINUM SILICATE CRYSTALS - ANDALUSITES, KYANITE, AND SILLIMANITE
BM-RI-6370 N64-15650 01-19

ALVEOLAR AIR
EFFECTS OF COMPRESSIBILITY OF ALVEOLAR GAS ON DYNAMICS OF BREATHING CYCLE - RESPIRATORY PHYSIOLOGY
SAM-TDR-63-71 N64-26653 18-16

AMBIPOLAR DIFFUSION
MAGNETIC AND ELECTRIC FIELD ALIGNED PLASMA DIFFUSION IN THE IONOSPHERE TO EXAMINE CONDITIONS FOR AMBIPOLAR DIFFUSION
NASA-RP-155 N64-18504 10-24

AMBIPOLAR DIFFUSION CONTRIBUTION TO SEMICONDUCTOR THERMAL CONDUCTIVITY
NASA-RP-243 N64-26573 18-25

AMERICIUM
MACROSCOPIC PRODUCTION OF AMERICIUM METAL
LA-2992 N64-14541 04-17

AMIDE
ACETYLATION OF SULFANILAMIDE IN FEMALE MOUSE LIVER DURING CHRONIC IRRADIATION N64-13508 05-16

INHIBITION AND ENHANCEMENT OF RADIATION EFFECTS IN BIOLOGICAL SYSTEMS WITH AMIDES OF ACRYLIC AND PROPIONIC ACIDS N64-18411 10-16

STRESS-STRAIN BEHAVIOR OF AROMATIC POLYAMIDE/HT-1/ AND POLYESTER/DACRON/ - ORGANIC FIBERS
SM-44641 N64-19007 11-19

PREPARATION OF DICYANOACETYLENE MONOMER BY DEHYDRATION OF ACETYLENECARBOXAMIDE - POLYMER CHEMISTRY
NASA-CR-56035 N64-20601 13-07

FATIGUE DESTRUCTION OF POLYAMIDE RESINS UNDER CONTACT STRESSES
FTD-TT-64-126/1&2&4 N64-21972 15-07

COMPUTER ANALYSIS OF PROLONGED EFFECTS OF LYSERGIC ACID DIETHYL AMIDE ON ELECTROENCEPHALOGRAM RECORDS DURING DISCRIMINATIVE PERFORMANCE IN CAT
N64-22427 15-16

THERMOSTABLE TRIAZINE RUBBER PRODUCTION FROM COPOLYCONDENSATION OF DIAMIDINES OF PERFLUORO GLUTARIC AND PERFLUORO ADIPIC ACIDS
FTD-TT-63-176/1 N64-23297 16-19

EVALUATION OF EPOXY POLYAMIDE PAINT FOR DRYING, WET-TAPE ADHESION, AND HOT-AIR BLAST RESISTANCE
A757 N64-24211 16-19

HYDROLYSIS OF AMINO ACYL-BETA-NAPHTHYLAMIDES BY PLASMA AMINOPEPTIDASES
NASA-RP-236 N64-26710 18-16

AMINE
SA CATECHOLAMINE
SA DIFLUOROAMINE
SA DIPHENYLAMINE
SA HISTAMINE
SA TRYPTAMINE
COMPARATIVE STUDY BETWEEN 2-MERCAPTOETHYLAMINE HYDROCHLORIDE AND P-AMINOPROPIOPHENONE FOR X-RAY AND HIGH ENERGY PROTON IRRADIATION SHIELDING
N64-13510 04-10

CYSTEAMINE PROTECTIVE ACTION AGAINST RADIATION INJURY N64-13695 05-16

SOLUBILITY, AMINE EXTRACTION, & ION EXCHANGE OF PROTACTINIUM IN SULFATE & SULFURIC ACID
N64-15659 07-07

TRILAURYLAMINE EXTRACTION - SPECTROGRAPHIC DETERMINATION OF TANTALUM IN PLUTONIUM
HW-79738 N64-15835 07-07

DIOXANE SULFUR TRIOXIDE FOR QUANTITATIVE ANALYSIS OF ACTIVE HYDROGEN IN ALCOHOLS AND AROMATIC AMINES
TIL/T-5451 N64-16527 08-07

SYNTHESIS OF CRYSTALLINE ESTERS FROM CYCLIC ALCOHOLS AND CHEMICAL REACTIONS OF AMINES
ARDD-2381-5 N64-20332 13-20

CHEMICAL REACTION OF HYDROXYLAMINE WITH ISONITROACETOPHENONE
ASIC-167 N64-21585 15-07

METHOD FOR OBTAINING HEAT RESISTANT PARAMAGNETIC POLYMER BY REACTION OF DIAMINE WITH QUINONE
FTD-TT-62-1882/1&4 N64-21968 15-07

TOXICOLOGY OF VANADIUM TRIOXIDE DUST, GERMANIUM TETRACHLORIDE, AND ALIPHATIC AMINES
JPRS-25116 N64-23366 16-16

TOXICOLOGY OF ALIPHATIC AMINES N64-23370 16-16

SYNTHESIS AND EVALUATION OF DIISOCYNANATES AND AMINES FOR RAPID SOLIDIFICATION OF HYDROCARBON FUELS N64-25086 17-07

AROMATIC AMINE ORGANIC CHLORIDE REACTIONS AND ORGANO-SODIUM AMIDE POLYMERS
TPR-1 N64-27677 19-07

SYNTHESIS OF RADIOPROTECTIVE STEREOSPECIFIC AMINOTHIOLS
AD-601839 N64-29332 21-07

SYNTHESIS OF STEREOSPECIFIC AMINOTHIOLS AS RADIOPROTECTIVE AGENTS
AD-601838 N64-29333 21-07

REACTION OF PRIMARY, SECONDARY, AND TERTIARY AMINES WITH CARBOXYLIC ACIDS IN BENZENE
ARDD-3165-1 N64-29923 21-07

HYDROGEN BONDING IN THIOL & AMINOTHIOL COMPOUNDS
AD-603220 N64-30781 22-07

PHARMACOLOGICAL EFFECTS ON CATS OF TETRAMETHYL-CYSTAMINE N64-31346 23-16

DISTRIBUTION AND EXCRETION OF BETA-MERCAPTO-PROPYLAMINE, TAGGED WITH SULFUR-35, FROM BODIES OF MICE N64-31348 23-16

HYDROLYTIC STABILITY OF AMINE SALT ASHLESS RUST INHIBITORS IN TWO-PHASE WATER-BENZENE SYSTEMS WITH CARBON DIOXIDE PRESENT
NRL-6081 N64-32531 23-07

PREPARATION AND CHEMICAL AND PHYSICAL PROPERTY STUDY OF BORANE AND TRIBOROHYDRIDE DERIVATIVES OF METHYLATED POLYAMINES
UCRL-7973 N64-33237 24-07

AMINO ACID
SA ADENINE
SA CYSTEINE
SA GLYCINE
SA PROTEIN
SA TRYPTOPHAN
ULTRAVIOLET FLUORESCENCE OF AMINO ACIDS IN FROG MUSCLES
JPRS-19287 N64-11068 02-16

CHLORELLA PYRENOIDOSA PROTEIN ANALYSIS FOR ESSENTIAL AMINO ACIDS - SPACE BIOLOGY N64-11697 03-16

TRANSFER OF AMINO ACID STRUCTURE TO RIBOSOMES FROM DESOXYRIBONUCLEIC ACID BY RIBONUCLEIC ACID CODING OF PROTEIN N64-12511 04-16

ANTIRADIATION ACTIVITY OF SULFUR AMINO ACID COMPOUNDS ON ANIMAL TISSUE N64-12797 04-16

AMINO ACID COMPOSITIONS OF PROTEINOIDS N64-12944 04-16

METABOLIC STUDIES OF AMINO ACID IMBALANCE IN RATS EXPOSED TO COLD TEMPERATURES
AAL-TDR-63-33 N64-13632 05-16

NONPROTEIN AMINO ACIDS & RELATED COMPOUNDS OF RAT LIVER MITOCHONDRIA - CHROMATOGRAPHIC ANALYSIS
NADC-MA-6318 N64-14351 06-16

HISTOCHEMICAL DETERMINATION OF OXIDATIVE AND HYDROLYTIC ENZYMES ON RAT BRAIN TISSUE AND AMINO ACID CONSUMPTION IN MONKEYS AFTER HYPOXEMIA N64-14606 06-16

VAPOR PRESSURES OF SEVERAL AMINO ACIDS DETERMINED BY KNUDSEN CELL EFFUSION METHOD
IS-790 N64-15852 07-07

ELECTROCHEMICAL PRODUCTION ACTIVITY OF D-AMINO ACID, OXIDASE, UREASE, AND GLUCOSE OXIDASE ENZYME SYSTEMS
NASA-CR-55744 N64-15873 07-16

ELECTRON PARAMAGNETIC RESONANCE STUDY OF RADIOCHEMICAL EFFECTS IN CRYSTALLINE AMINO ACIDS AND PROTEIN TISSUES N64-16903 09-16

ELECTRON PARAMAGNETIC RESONANCE OF PARAMAGNETIC CENTERS IN AMINO ACIDS AND PROTEINS DUE TO GAMMA RADIATION
JPRS-23983 N64-18138 10-16

ASYMMETRIC SYNTHESIS OF ALPHA-AMINO ACIDS BY STRECKER SYNTHESIS, INCLUDING PRODUCTION OF OPTICALLY ACTIVE L-ANILINE N64-18321 10-07

BIOPHYSICS OF AMINO ACIDS & PROTEINS
JPRS-24046 N64-18517 11-16

CORRELATION OF AMINO ACID RADICALS IN PROTEIN MOLECULES N64-18518 11-16

ELECTRON PARAMAGNETIC RESONANCE SPECTRA OF AMINO ACID & PROTEIN UNDER ULTRAVIOLET LIGHT N64-18519 11-16

AMINO ACID COMPOSITION OF PROTEINS N64-18524 11-16

BIOCHEMISTRY OF X-RAY IRRADIATION EFFECT ON BLOOD PROTEIN REACTIONS, DISULFIDE BONDS OF FIBRINOGEN, AND SYNTHESIS OF AMINO ACIDS
JPRS-24164 N64-19059 11-16

POLYMERIZATION OF AMINO ACIDS TO GIVE PROTEINS AND FORMED MICROPARTICLES N64-19151 11-16

SYNTHESIS OF NATURAL AMINO ACIDS WITH THERMAL ENERGY FOR BIOCHEMICAL ORIGIN STUDY N64-19588 12-07

THERMAL POLYMERIZATIONS OF AMINO ACIDS AND PRODUCTION OF FORMED MICROPARTICLES ON LAVA N64-19953 12-07

BIOLOGY IN PLANETARY & SPACE ENVIRONMENTS - AMINO ACID AND PROTEINOID STUDIES
NASA-CR-50483 N64-22775 16-16

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS - PHOTOCATALYSTS, RADIOCATALYSTS, & LOW MOLECULAR WEIGHT ORGANIC SYNTHESIS
NASA-CR-56531 N64-22792 16-16

MASS SPECTRA OF ORGANIC MOLECULES - AMINO ACIDS
NASA-CR-56533 N64-22794 16-07

AMINO ACIDS IN HUMAN DIET - NUTRITION STUDY
FTD-TT-64-148/1&4 N64-23308 16-16

FORMATION OF GUANINE DURING THERMAL POLYMERIZATION OF AMINO ACIDS
NASA-RP-283 N64-27417 19-07

ORIGINS OF AMINO ACIDS AND PROTEINS - MOLECULAR EVOLUTION N64-27797 19-16

SYNTHESIS OF ALPHA AMINO ACID METHYL ESTERS N64-27970 20-07

PREPARATION, SEDIMENTATION, ELECTROPHORETIC PROPERTIES, AMINO ACID COMPOSITION, IMMUNOLOGY, AND CRYSTALLIZATION OF TRIOSE PHOSPHATE DEHYDROGENASE N64-32048 23-16

AMMONIA
COMPARATIVE STUDY OF IONIZING RADIATION AND ELECTRIC DISCHARGES ON ORGANIC COMPOUNDS -

METHANE, AMMONIA AND WATER N64-11117 02-07

NITRIDATION OF CERIUM IN QUARTZ REACTOR WITH AMMONIA & NITROGEN TO FORM CERIUM NITRIDE
JPRS-18919 N64-11347 02-07

CHEMICAL REACTIONS OF GASEOUS AMMONIA WITH SULFUR CHLORIDES
UCRL-11081 N64-13219 04-07

HYDROCARBON, AMMONIA, AND COAL GAS FUEL CELL
SAE-PAPER-783A N64-13332 04-06

SYNTHESIS OF CRYSTALLIZED GEMS BY FUSING AMMONIA AND ALUM
E-T-F-63-5 N64-13987 05-25

ANOMALOUS INCLINATION OF AMMONIA SPECTRAL ABSORPTION LINES IN PLANETARY ATMOSPHERE OF JUPITER N64-14515 06-05

ELECTROCHEMICAL PARAMETER EVALUATION FOR INTERMEDIATE TEMPERATURE DIRECT AMMONIA-AIR FUEL CELL
QR-1 N64-14629 06-06

REACTION RATES OF HYDROGEN, AMMONIA, & METHANE IN MIXTURES OF ATOMIC & MOLECULAR OXYGEN
NASA-RP-120 N64-14860 06-07

FAILURE MODE ANALYSIS OF AMMONIA BATTERY SYSTEM
REPT.-13 N64-15766 07-06

MEASUREMENT OF TRACE CONCENTRATIONS OF AMMONIA IN WATER
HW-79296 N64-15915 07-07

PERFORMANCE OF HYDROGEN AND NONCRYOGENIC GASES OF AMMONIA, LITHIUM-HYDRIDE, METHANE, ETHANE, & WATER AS ELECTROTHERMAL THRUSTOR PROPELLANTS
NASA-TN-D-2253 N64-16120 08-27

LIQUID AMMONIA FUZE BATTERY CONTAINING MAGNESIUM ANODE AND METADINITROBENZENE CATHODE DEPOLARIZER N64-17421 09-06

BATTERIES USING LIQUID AMMONIA AS ELECTROLYTIC SOLVENT WITH MAGNESIUM ANODE AND MERCURIC SULFATE OR SILVER CHLORIDE CATHODES N64-17422 09-06

IMPROVEMENT OF DESIGN AND PERFORMANCE OF AMMONIA CELL& AND BATTERIES
QPR-2 N64-19062 11-06

HYDROGEN, HELIUM, AMMONIA, AND ARGON GAS FLOW THROUGH ELECTRIC ARC HOT GAS CONTAINMENT LIMITS
ARL-64-49 N64-22306 15-24

PHYSICAL PROPERTIES OF CALCIUM-AMMONIA SOLUTIONS AND AMMONIA BATTERIES
NOLC-597 N64-22880 16-06

PHYSICAL PROPERTIES OF CALCIUM-AMMONIA SOLUTIONS. N64-22881 16-07

ELECTROREDUCTION OF NITROBENZENES IN LIQUID AMMONIA SOLUTIONS N64-22882 16-06

BEHAVIOR OF SILVER/SILVER CHLORIDE, CHLORIDE ELECTRODE IN AMMONIA N64-22883 16-06

AUTOMATICALLY ACTIVATED AMMONIA BATTERIES N64-22886 16-06

AMMONIA FUEL CELLS
AD-601268 N64-22962 16-06

MOLECULAR GENERATOR WITH TWO SERIES CAVITIES USING AMMONIA N64-23809 16-25

THERMAL ARC JET SYSTEM USING AMMONIA AS PROPELLANT N64-25022 17-26

ANOMALY IN BEHAVIOR OF AMMONIA BANDS IN PLANET JUPITER ABSORPTION SPECTRUM
NASA-TT-F-8927 N64-27508 19-05

CHEMOELECTRIC ENERGY CONVERSION FOR NONAQUEOUS BATTERIES - IONIC MELT ELECTROCHEMISTRY, REDUCTION OF AROMATIC NITRO COMPOUNDS, AND AMMONIA CELLS
NAVWEPS-8203 N64-29326 21-[illegible]

THIN PLATE BATTERY BASED ON LIQUID-ACTIVATED AMMONIA
QR-1 N64-29350 21-[illegible]

MATRIX-TYPE DIRECT AMMONIA-AIR FUEL CELL OPERATING AT INTERMEDIATE TEMPERATURES
REPT.-3 N64-29585 21-[illegible]

ONE-CENTER SELF-CONSISTENT FIELD MOLECULAR ORBITAL WAVE FUNCTIONS FOR GROUND STATES OF AMMONIA, AMMONIUM ION, PHOSPHINE, AND PHOSPHONIUM ION N64-30316 22-23

STARK EFFECTS IN NEAR INFRARED SPECTRA OF POLYATOMIC MOLECULES, HINDERED ROTATION IN HYDROGEN PEROXIDE, AND INFRARED ABSORPTION OF MATRIX ISOLATED AMMONIA
AFCRL-64-668 N64-32581 23-07

ELECTRONIC DESIGN & OPERATIONAL CHARACTERISTICS OF TESTING MACHINE FOR LIQUID AMMONIA RESERVE BATTERY
NAVWEPS-8195 N64-33862 24-[illegible]

AMMONIUM COMPOUND
METALLURGICAL DEVELOPMENTS - ALUMINUM BRAZING & AMMONIUM PARATUNGSTATE PRODUCTION
JPRS-18870 N64-10804 02-11

PRODUCTION OF AMMONIUM PARATUNGSTATE IN ACID-FREE AUTOCLAVE SOLUTIONS - LOWER SODIUM CONTAMINATION & LOWER QUANTITY OF REAGENTS N64-10806 02-11

STRUCTURE OF TETRA N-BUTYL AMMONIUM FLUORIDE HYDRATE CRYSTALS N64-10978 02-21

METHOD FOR DECOMPOSITION OF AMMONIUM NITRATE IN AQUEOUS SOLUTION
AERE-R-4393 N64-15604 07-07

AMMONIACAL-AMMONIUM CARBONATE LEACHING OF MANGANIFEROUS MATERIALS
BM-RI-6368 N64-15797 07-07

SEPARATION OF RARE EARTH ELEMENTS BY PAPER PHASE CHROMATOGRAPHY USING TRINORMAL OCTA-AMINE AMMONIUM NITRATE SYSTEMS N64-20659 13-07

CHEMICAL AND PHYSICAL PROPERTIES OF AMMONIUM NITRATE-ALUMINUM MIXTURE
NOLTR-64-63 N64-27919 20-07

AMPHIBIOUS VEHICLE
MOTION EQUATIONS FOR HEAVE, PITCH, AND SURGE MOTIONS OF TILT-FLOAT VEHICLES IN WAVES PROGRAMMED FOR DIGITAL COMPUTER
AD-434163 N64-18195 10-11

AMPLIFICATION
S FLUID AMPLIFICATION

AMPLIFICATION FACTOR
CF VOLTAGE
SIGNAL GENERATION AND AMPLIFICATION IN ELECTRONIC CIRCUIT
AFCRL-64-514 N64-27496 19-09

PLASMA OSCILLATIONS IN ANISOTROPIC MATERIALS FOR MICROWAVE POWER GENERATION AND AMPLIFICATION - PYROLYTIC GRAPHITE
REPT.-1 N64-30763 22-24

RANDOM NOISE OCCURRENCE AND PASSAGE THROUGH AMPLIFICATION CHANNEL IN TELEVISION SYSTEMS
FTD-TT-62-1661/1&2&4 N64-32233 23-08

AMPLIFIER
SA CROSSED FIELD AMPLIFIER
SA KLYSTRON
SA LASER
SA MASER
SA PARAMETRIC AMPLIFIER
SA PHOTOMULTIPLIER
SA PHOTOTUBE
SA TRANSFORMER
AMPLIFIER DESIGN OF TRAVELING-WAVE TUBE FOR TELSTAR SATELLITE N64-11083 02-09

HYDRAULIC ACTUATORS AND AMPLIFIERS WITH & WITHOUT FEEDBACK, AND ELECTROMECHANICAL TRANSDUCERS
FTD-TT-62-1226/1&2 N64-11150 02-11

BRIDGE CIRCUIT WITH HOT-WIRE ANEMOMETER AND ELECTRONIC VARIABLE-GAIN AMPLIFIER EQUIPMENT
OVL-283 N64-11635 03-15

DIRECT CURRENT AMPLIFIER WITH SOLID STATE CHOPPER GATE N64-11735 03-15

NOISE CHARACTERISTICS OF HIGH POWER MICROWAVE AMPLIFIERS
TR-62 N64-11750 03-09

LASER APPLICATIONS - AMPLIFIER, POWER GENERATOR, & DETECTOR FOR COMMUNICATIONS & RADAR SYSTEMS N64-12565 04-25

MASER APPLICATIONS IN ELECTRONIC SYSTEMS - AMPLIFIERS N64-12566 04-25

AMPLIFIERS FOR RADIO FREQUENCY SYSTEMS OF PARTICLE ACCELERATORS
LNF-63/64 N64-13175 04-23

LINEAR PULSE AMPLIFIER WITH THREE TUBES N64-13425 05-09

FABRY-PEROT STANDARD WITH IMAGE AMPLIFIER FOR OBSERVATION OF LOW EMISSION OBJECTS N64-13689 05-15

REVERSIBLE OPERATIONAL AMPLIFIER & CHARACTERISTICS OF TRANSPORTATION NETWORK
JPRS-22607 N64-13740 05-09

REVERSIBLE OPERATIONAL AMPLIFIER - CIRCUIT DIAGRAMS & ANALYSIS N64-13741 05-09

MICROPOWER TRANSISTOR LINEAR BROADBAND AMPLIFIER - DESIGN STUDY
USAELTDL-TR-2386 N64-13871 05-09

KLYSTRON AMPLIFIER CIRCUIT ANALYSIS
FTD-MT-63-91/1626364 N64-13965 05-09

SOLID-STATE OPERATIONAL AMPLIFIERS
AD-413473 N64-14016 05-09

MICROWAVE BROADBAND TRANSISTOR AMPLIFIERS FOR PHASED ARRAY RADAR APPLICATIONS
RE-TN-63-4 N64-14353 06-09

MICROWAVE BROADBAND TRANSISTOR AMPLIFIERS FOR PHASED ARRAY RADAR APPLICATIONS
RE-TN-63-4 N64-14353 06-09

SELECTION OF MATERIALS FOR HIGH POWER MICROWAVE AMPLIFIERS SUITABLE FOR SPACE OPERATION
RADC-TDR-64-7 N64-15057 07-09

2.5 WATT X-BAND TRAVELING-WAVE TUBE AMPLIFIER FOR SATELLITE COMMUNICATION SYSTEMS N64-15265 07-09

LOW NOISE TUNABLE AMPLIFIER EQUIPMENT FOR E-BAND OPERATION
RADC-TDR-63-505 N64-15498 07-09

PARAMAGNETIC AMPLIFIER FOR PLANETARY RADAR SYSTEM
JPRS-23468 N64-15830 07-08

PREDICTING BEHAVIOR OF PULSE RESPONSE OF MICROWAVE AMPLIFIER TUBES N64-16137 08-09

BROADBAND TUNNEL DIODE AMPLIFIER DESIGN
EDL-M583 N64-16435 08-09

CONSTRUCTION OF CRYOGENIC DEWAR INCLUDING DESIGN OF JIG TO HOLD DIODES - SEMICONDUCTOR LASER AMPLIFIER TECHNIQUES /SEMLAM/
RADC-TDR-63-553 N64-16644 08-25

BROADBAND LOW NOISE MICROWAVE AMPLIFIER USING CERAMIC TRIODES
RE-TR-63-32 N64-17324 09-09

FOUR-TUBE PREAMPLIFIER FOR AMPLIFYING PULSE OUTPUT OF FISSION COUNTERS IN HIGH TEMPERATURE AND NUCLEAR RADIATION ENVIRONMENT
PWAC-427 N64-18142 10-09

OPTIMUM NOISE PERFORMANCE OF MULTITERMINAL AMPLIFIERS
AD-434781 N64-18382 10-09

DIAGRAM AND ANALYSIS OF CIRCUIT TO COMPENSATE AUTOMATICALLY FOR NULL DRIFT IN ELECTROMETER AMPLIFIERS
FTD-MT-63-47/1&2 N64-18754 11-09

ELECTRO-OPTICS - ELECTRONIC PULSE AMPLIFIER & SEMICONDUCTOR INVESTIGATION TO EXTEND APPLICABILITY OF INTEGRATED CIRCUITS
AD-434170 N64-18844 11-09

HIGH POWER BEAM PLASMA AMPLIFIER
AD-426322 N64-18850 11-24

COMPATIBLE INTEGRATED CIRCUITS AND THIN FILM TECHNIQUES - APPLICATIONS TO ELECTRONIC AMPLIFIERS AND DIGITAL COMMUNICATIONS SYSTEMS
QR-10 N64-19119 11-09

HIGH POWER X-BAND KLYSTRON AMPLIFIER
RADC-TDR-63-524 N64-19186 11-09

INEXPENSIVE CIRCUITED ULTRAHIGH FREQUENCY BROADBAND AMPLIFIER CHAIN
RADC-TDR-64-87 N64-19234 11-09

ELECTRON BEAM MULTIPLIER TUBE FOR HIGH SPEED POWER AMPLIFIER USING BEAM SWITCHED P-N JUNCTIONS
AD-428020 N64-19970 12-09

MILLIMETER AND SUBMILLIMETER MASER DEVICES - IRON /FERRIC ION/ DOPED ZINC TUNGSTATE AS NEW QUANTUM AMPLIFIER MATERIAL
AD-432597 N64-21375 14-25

PHASE SHIFT AMPLIFICATION
REPT.-05407 N64-21871 15-08

LOW PRESSURE PLASMA GENERATION AND INTERACTION PROBLEMS OF HIGH POWER BEAM PLASMA AMPLIFIER
AD-433590 N64-22369 15-24

PRINCIPLES OF GENERATORS OF COHERENT LIGHT AND MOLECULAR AMPLIFIER
AD-402436 N64-22405 15-25

MINIATURE WIDEBAND ELECTROMETRIC AMPLIFIER FOR SATELLITES
NASA-TT-F-8822 N64-23041 16-09

USE OF LOW-NOISE AMPLIFIER IN SPECTRAL RADIOMETER N64-23793 16-08

BROADENING OF NOISE ATTENUATION IN QUADRUPOLE AMPLIFIER WITH AID OF UNCOUPLED RESONATORS AT INPUT N64-23797 16-08

TURBULENCE AMPLIFIER IN FLUID LOGIC CIRCUIT N64-23821 16-11

MULTISTAGED PRESSURE PROPORTIONAL FLUID AMPLIFIER N64-23823 16-11

MULTISTAGE OPERATION PROPORTIONAL FLUID AMPLIFIER N64-23824 16-11

DESIGN OF 5-MILLIMETER CONTINUOUS WAVE AMPLIFIER
AD-600945 N64-23888 16-09

SPACECRAFT COMMUNICATION TRANSPONDER POWER AMPLIFIER
NASA-CR-56287 N64-23948 16-09

DOUBLE OCTAVE BANDWIDTH TRAVELING WAVE TUBE AMPLIFIER
RADC-TDR-64-199 N64-23963 16-09

LOW POWER, LOW NOISE PHOTOTUBE AMPLIFIER
TR-63-73 N64-24093 16-09

DOUBLE-QUANTUM PHOTOELECTRIC EFFECT, AND GAIN OF BEAM-PLASMA INTERACTION IN MICROWAVE AMPLIFIERS
RADC-TDR-64-140, VOL. II N64-24171 16-09

TRANSMISSION AMPLIFIER WITH PULSED LASER DIODE & OXYGEN GAS LASER
RADC-TDR-64-148 N64-24349 17-09

BALANCING AMPLIFIER FOR ELECTRONIC RECORDING INSTRUMENT N64-24512 17-09

HIGH SPEED POWER AMPLIFIER USING ELECTRON BEAM SWITCHED P-N JUNCTION
AD-436595 N64-24809 17-09

PNEUMATIC AMPLIFIER NOISE REDUCTION BY JET-EDGE AND RESONATOR COUPLING N64-25262 17-11

EFFECT OF AUDIOFREQUENCY ACOUSTIC WAVES ON PNEUMATIC DIGITAL AMPLIFIERS N64-25268 17-15

ELECTRONIC EQUIPMENT - PNEUMOAUTOMATIC RELAY, AMPLIFIER, RESISTANCE, AND CAPACITOR
JPRS-24950 N64-25854 18-17

LOW NOISE, LINEAR, VARIABLE GAIN, RADIO FREQUENCY AMPLIFIER TUBE
AD-438401 N64-25856 18-09

DEVELOPMENT OF PHOTOMULTIPLIER USING LARGE DIAMETER PHOTOCATHODE AND VENETIAN BLIND TYPE OF ELECTRON MULTIPLIER FOR HIGH CURRENT OPERATION
AD-440103 N64-25982 18-09

OPERATION AND DIAGRAMS OF MECHANICAL POWER AMPLIFIER N64-26397 18-09

MINIMUM POWER DENSITY AND FREQUENCY RESPONSE RATIO FOR SEMICONDUCTOR TRIODE AMPLIFIER N64-26440 18-09

STATIC AND DYNAMIC PERFORMANCE OF MICROPOWER TRANSISTOR LINEAR AMPLIFIERS N64-26447 18-09

X-BAND SOLID STATE DETECTOR AMPLIFIER
QPR-2 N64-26511 18-09

TESTING OF S-BAND AMPLIFIER
REPT.-2 N64-26525 18-09

RADIO FREQUENCY BROADBAND AMPLIFIER FOR DRIVING REACTIVE LOADS
CERN-64-27 N64-26559 18-09

GROUP-TIME DELAY AMPLIFIER
BI-025 N64-26566 18-09

L BAND MICROWAVE AMPLIFIER FOR USE IN PHASED ARRAY RADAR SYSTEMS - FOCUSING OF TRAVELING WAVE TUBE
MTPR-22 N64-26643 18-08

MICROWAVE INTERACTIONS IN DISTRIBUTED SEMICONDUCTOR STRUCTURES & SOLID STATE ULTRASONIC AMPLIFIERS AND TRANSDUCERS
QR-4 N64-26850 18-25

ELECTRICAL AND MECHANICAL DESIGNS OF HIGH POWER CROSSED FIELD AMPLIFIER AND PERFORMANCE TEST RESULTS ON FIRST INTERIM TUBE
RADC-TDR-64-156 N64-26890 18-09

USE OF ELECTRONIC SYSTEM OF PHOTOMULTIPLIER AS MILLIMETER WAVE COMPONENT DEVELOPMENT - BEAM PLASMA AMPLIFIER
RADC-TDR-64-207 N64-26920 18-24

GENERATION OF HIGH DENSITY STABLE CESIUM PLASMA BY MODIFIED PENNING ARC AND DESIGN OF BEAM-PLASMA AMPLIFIER
AC-TDR-64-155 N64-26956 18-24

AMPLIFIER OF WEAK ION CURRENT IN MASS SPECTROMETER INSTRUMENTS N64-26968 19-15

PARAMETRIC SINGLE-DIODE AMPLIFIER WITH ONE AUXILIARY CIRCUIT AND TWO DRIVING STAGES
RSIC-217 N64-27052 19-08

QUANTUM PARAMAGNETIC AMPLIFIERS FOR RADIO BAND N64-27152 19-09

QUANTUM PARAMAGNETIC AMPLIFIERS FOR RADIO BAND N64-27152 19-09

DESIGN, FABRICATION, AND PACKAGING OF PULSE AMPLIFIER INTEGRATED MICROCIRCUIT
IR-11 N64-27195 19-09

VARIABLE-DRIFT BIASED-GAP KLYSTRON AS HIGH EFFICIENCY AMPLIFIER
ESD-TDR-64-44 N64-27376 19-09

REFLECTION TYPE LASER AMPLIFIER
TR-2467 N64-28526 20-25

SIGNAL ENHANCEMENT IN NOISY COMMUNICATION SYSTEM - INSTANTANEOUSLY-RESPONDING EXPANSION AMPLIFIER
ESD-TDR-64-506 N64-28540 20-01

HIGH POWER BEAM PLASMA AMPLIFIER - LANGMUIR PROBE PLASMA MAPPING VEHICLE
REPT.-5 N64-28626 20-01

THRESHOLD SENSITIVITY OF GALVANOMETRIC AMPLIFIER N64-29132 21-15

CALCULATION OF SELECTIVE AMPLIFIER WITH DOUBLE T-SHAPED BRIDGE IN FEEDBACK CIRCUIT N64-29141 21-15

PHASE VARIATION OF VOLTAGE AT OUTPUT OF TUNED AMPLIFIER AFTER SIGNAL SWITCHING AT INPUT N64-29472 21-09

X-BAND SOLID STATE DETECTOR/AMPLIFIER
QPR-3 N64-30167 21-09

QUANTUM PARAMAGNETIC AMPLIFIER IN RADIO ASTRONOMY
NASA-TT-F-8938 N64-30832 22-01

QUANTUM PARAMAGNETIC AMPLIFIER IN RADIO ASTRONOMY
NASA-TT-F-8938 N64-30832 22-01

PHONON INTERACTIONS IN CRYSTALS - APPLICATION TO AMPLIFIERS, OSCILLATORS, AND FREQUENCY CONVERTERS OF MICROWAVE ACOUSTIC ENERGY
QTR-4 N64-30908 22-25

DESIGN OF 30-WATT SERVOAMPLIFIER WITH EXISTING 10-WATT AMPLIFIER AS DRIVER UNIT N64-31496 23-09

DESIGN OF MICROELECTRONIC PRECISION ANALOG AMPLIFIERS N64-31497 23-09

ELECTROMETRIC AMPLIFIER FOR USE WITH HIGH RESISTANCE GLASS MICROELECTRODES IN MEASURING IONIC ACTIVITY IN MUSCLE AND NERVE CELLS N64-31545 23-14

WAVE STABILITY OF PIEZOELECTRIC CRYSTAL AMPLIFIERS AND HOLE MOBILITY EFFECT ON ACOUSTIC AMPLIFICATION
ML-1072 N64-31685 23-25

MILLIMETER WAVE LARMOTRON AMPLIFIER - CYCLOTRON WAVE ELECTRON BEAM AMPLIFIER
ASD-TDR-63-765 N64-31692 23-09

OPERATION PRINCIPLES AND ADVANTAGES OF L-BAND FORWARD-WAVE AMPLIFIER OF PULSED TYPE RADIO FREQUENCY
PT-470 N64-31892 23-09

TRAVELING WAVE TUBE AND EXPERIMENTAL PULSE FINAL AMPLIFIER TUBES FOR HIGH POWER V-BAND
NA-8220-8367 N64-32222 23-09

MINIATURE FISSION CHAMBER AND PREAMPLIFIER FOR HIGH FLUX REACTORS
ORNL-3699 N64-32416 23-15

MULTISTAGE CASCODE AMPLIFIER WITH NONLINEAR LOAD - APPLICATION IN RADIO ELECTRONICS N64-32913 24-09

PRINCIPAL CHARACTERISTICS OF SUMMING DEVICES - COMPUTING AMPLIFIER N64-32914 24-09

DIFFERENTIAL AMPLIFIER CIRCUITS IN ELECTROPHYSIOLOGICAL RESEARCH
FTD-TT-63-1196/1&2&4 N64-33520 24-09

HIGH POWER MICROWAVE AMPLIFIERS FOR OPERATION IN SPACE ENVIRONMENT - EFFECTS OF VACUUM, RADIATION, TEMPERATURE, AND MICROMETEOROIDS
RADC-TDR-64-201 N64-33545 24-09

FAILURE IN SILICON OXIDE DIODE WAFERS & AMPLIFIERS AND LINEAR AMPLIFIERS
RADC-TDR-64-252 N64-33546 24-09

HIGH POWER X-BAND GENERATOR - KLYSTRON AMPLIFIER
RADC-TDR-64-451 N64-33548 24-09

AMPLIFIER PUMP SOURCE UNIT OF ANTENNA SYSTEM FOR SATELLITE COMMUNICATIONS TRANSPORTABLE GROUND TERMINAL
SYN-52-07-01, VOL. 2 N64-33641 24-08

DESIGN OF MICROELECTRONIC 2-WATT SERVO AMPLIFIER - DIFFERENTIAL AMPLIFIER WITH TWO FEEDBACK LOOPS
REPT.-1111-R-0010 N64-33706 24-09

EQUALIZATION OF REPRODUCING AMPLIFIERS AND TESTING OF GROUND AND AIRBORNE EQUIPMENT FOR WIDEBAND RECORDER SYSTEM
CLD-1600 N64-33772 24-08

LOW LEVEL, LOW-FREQUENCY PHOTOCELL AMPLIFIER-DESIGN, COMPONENTS, TEST RESULTS
TR-64-71 N64-33836 24-09

SOLID STATE AMPLIFIER FOR SEISMOMETRY
TR-64-73 N64-33837 24-09

PHYSICAL LIMITATION FACTORS ENCOUNTERED IN GENERATING VERY HIGH POWER FOR RADIO FREQUENCY AMPLIFIER TUBES
ESD-TDR-63-568 N64-33977 24-09

AMPLIFIER DESIGN
DESIGN OF 30-WATT SERVOAMPLIFIER WITH EXISTING 10-WATT AMPLIFIER AS DRIVER UNIT
N64-31496 23-09

DESIGN OF MICROELECTRONIC PRECISION ANALOG AMPLIFIERS N64-31497 23-09

AMPLITUDE
MEASURING IMPEDANCE CHANGE IN PEAK-TO-PEAK AMPLITUDE ACROSS THORAX & HEART RATE AS BEAT-TO-BEAT DIRECT CURRENT VOLTAGE
SAM-TDR-63-69 N64-11773 03-16

AMPLITUDE-FREQUENCY TRANSFER FUNCTION OF RELAY CONTROL MECHANISM WITH INDEPENDENTLY DRIVEN MOTOR - CYBERNETICS N64-12468 04-06

AMPLITUDE & PHASE OF RADIO WAVES PROPAGATING ALONG FLAT INHOMOGENEOUS EARTH SURFACE
N64-12728 04-08

STATIC & DYNAMIC ANODE-GRID CHARACTERISTICS OF VACUUM TUBE AT LARGE VOLTAGE AMPLITUDES
N64-12740 04-09

VERY SHORT PULSE AMPLIFICATION STUDY USING HIGH POWER MICROWAVE AMPLIFIERS N64-16136 08-09

PERIODS AND AMPLITUDES OF PERIODIC SOLUTIONS TO EQUATION OF PERIODIC MOTION
MRC-437 N64-16619 08-20

GROUND AMPLITUDES PRODUCED BY SMALL SURFACE EXPLOSIONS N64-19480 12-12

DIFFERENTIAL EQUATIONS FOR ENERGY DENSITY AND AMPLITUDE VARIATION IN SPACE CURVE IN MEDIUM OF CHANGING REFRACTIVE INDICES
DAMP-TM-63-04 N64-22331 15-23

MEASUREMENT OF PHASE AND AMPLITUDE OF RADAR BACKSCATTER N64-24292 17-08

RADIO DIRECTION FINDER PRINCIPLES - PHASE ANGLE MEASUREMENT, SUM-AND-DIFFERENCE AMPLITUDE-PHASE MEASUREMENT, AND DIRECTIONAL ANTENNA DISH METHODS
N64-24638 17-09

OUTPUT AMPLITUDE PROBABILITY DENSITY FUNCTION OF FILTER EXCITED BY PULSE TRAINS
RR-64-1 N64-25114 17-23

MAXIMUM AMPLITUDE OF NUCLEAR MAGNETIC RESONANCE SIGNAL IN FLOW-THROUGH PICKUP
FTD-TT-64-297/1&2 N64-25449 17-24

CALIBRATION AND CONTROL OF AMPLITUDE VOLTAGE ANALYZERS N64-29130 21-15

CIRCUIT SENSITIVITY FOR DIRECT DETECTION OF AMPLITUDE FLUCTUATION OF MICROWAVE GENERATORS
N64-29468 21-09

AMPLITUDE LIMITER USING TANK CIRCUIT WITH CONTROLLED ATTENUATION N64-29476 21-09

FACTORS AFFECTING RECORDED AMPLITUDES OF SEISMIC WAVES FROM LOCAL EARTHQUAKES N64-30387 22-12

AMPLITUDE VARIATIONS IN SEISMOGRAPHIC RECORDINGS OF DISTANT EARTHQUAKES N64-30388 22-12

TIME SPECTRUM OF LOGARITHMIC-AMPLITUDE FLUCTUATIONS OF ELECTROMAGNETIC WAVE PROPAGATING THROUGH TURBULENT ATMOSPHERE
TR-1241 N64-32445 23-08

AMPLITUDE MODULATION
SEPARATING TWO AMPLITUDE-MODULATED SIGNALS WITH OVERLAPPING SPECTRA IN RECEIVER
JPRS-18802 N64-10644 01-09

FREQUENCY MODULATED OSCILLATIONS CONVERTED TO AMPLITUDE-FREQUENCY-MODULATED OSCILLATIONS BY DIFFERENTIATING DEVICE N64-12743 04-09

REDUCING PEAK AMPLITUDES AND DIVERGENCE RATES FOR STEADY AND UNSTEADY MOTION OF LIBRATING BODIES
AD-432469 N64-17325 09-23

APPLICATION OF AMPLITUDE MODULATION TO ALTERNATE CURRENT TRACKING SYSTEMS N64-31856 23-08

COHERENT ELECTROMAGNETIC ENERGY GENERATION AND AMPLIFICATION IN EXTREMELY HIGH FREQUENCY BAND AND ANALYSIS OF AMPLITUDE & PHASE MODULATED TRAVELING WAVE AMPLIFIERS
REPT.-05772 N64-32282 23-23

ANALOG COMPUTER
OF DIGITAL COMPUTER
ANALOG COMPUTER USE FOR SOLUTION OF EXTREMUM PROBLEMS IN PHYSICS - VIBRATION THEORY AND GAME THEORY
JPRS-19244 N64-10585 01-20

ACCURACY OF DIGITAL AND ANALOG COMPUTERS FOR AUTOMATIC CONTROL IN COMBINED DIGITAL INTEGRATOR SYSTEM N64-10828 02-20

ANALOG COMPUTER METHOD OF MODELING DIFFERENTIAL EQUATIONS WITH BOUNDARY CONDITIONS AND SYNTHESIS OF ELECTRONIC MODELS FOR ALGEBRAIC OBJECTS
JPRS-19563 N64-10831 02-20

SIMULATION OF TIME DELAYS WITH STANDARD ANALOG COMPUTER ELEMENTS
EUR-240.F N64-11310 02-20

AUTOMATIC CONTROL SYSTEM FOR KIWI B-1B REACTOR - MATHEMATICAL MODELS DERIVED AND BUILT FROM ANALOG COMPUTER COMPONENTS
LAMS-2966 N64-11476 03-20

TROPOSPHERIC SCATTERING REDUCTION OF POWER AND ANALOG COMPUTER SIMULATION TEST FOR CONTROLLED CARRIER POWER TRANSMISSION
AFCRL-63-159/REV./ N64-12052 03-08

ANALOG COMPUTER PROGRAM FOR V/STOL SIMULATION OF VARIABLE-STABILITY HELICOPTER
NASA-TN-D-1970 N64-12958 04-04

ANALOG COMPUTER OPTIMIZATION OF TRAJECTORIES - INTERPLANETARY TRANSFERS AND VERTICAL ASCENSION ROCKET BURNING TIME
REPT.-28 N64-15033 07-20

DIGITAL COMPUTER OUTPUT DATA LINK AND PROGRAMMING DEVICE FOR ANALOG COMPUTER
EUR-410.E N64-15717 07-20

ANALOG COMPUTER FOR SOLUTION OF LINEAR SIMULTANEOUS EQUATIONS
DP-846 N64-15928 07-20

ANALOG COMPUTER PROGRAM FOR TRANSIENT MOTION SHOCK SPECTRUM N64-18549 11-23

ANALOG COMPUTER SOLUTION TO ELECTRONIC PACKAGES AND AIRCRAFT STRUCTURAL PROBLEMS N64-18552 11-23

ANALOG COMPUTER SIMULATION OF EFFECT ON AUTOMATIC LANDING SYSTEM PERFORMANCE OF OVERFLIGHT INTERFERENCE WITH LOCALIZER N64-19166 11-10

COMPUTATION OF POWER REQUIREMENTS FOR DIGITAL COMPUTER AND ANALOG COMPUTER ACTUATION SYSTEMS
REPT.-747 N64-22799 16-20

ANALOG COMPUTER PROGRAM FOR DETERMINATION OF HEAT TRANSFER PARAMETERS OF POWER RAMPS ON SODIUM REACTOR EXPERIMENT
NAA-SR-7929 N64-23062 16-23

PASSIVE & ACTIVE FLUID COMPONENTS IN ANALOG COMPUTATION & AUTOMATIC CONTROL N64-23825 16-11

HYDRAULIC POWER TRANSMISSION BY PULSATING FLOW OR PRESSURE - COMPONENT DESIGN AND ANALOG COMPUTER PROGRAM
RAC-933-5 N64-25924 18-11

ANALOG COMPUTER STUDIES OF ALL-WEATHER INSTRUMENT LANDING SYSTEMS - LOW APPROACH DECISION REGIONS AND GLIDE PATH EXTENSION N64-26950 18-22

SINE AND COSINE GENERATORS FOR ANALOG COMPUTER USING DIODE SWITCHING CIRCUITS
ARL/I-63 N64-27406 19-09

ANALOG COMPUTER ANALYSIS OF EFFECTS OF TRANSIENT GAMMA RADIATION ON MULTIPLE CIRCUITS
WL-TDR-64-41 N64-27424 19-09

SOVIET DIGITAL AND ANALOG COMPUTERS, MONITORING AND CONTROL MACHINES, DUPLICATORS, AND MULTIPLIERS
JPRS-25435 N64-27502 19-08

ELECTROMECHANICAL ORBITAL COMPUTER CAPABLE OF PERFORMING MATHEMATICAL OPERATIONS REQUIRED TO POINT TO ORBITING BODY - ANALOG ORBIT COMPUTER
ESD-TDR-64-49 N64-27522 19-20

HYDROGRAPH PRECALCULATION BY WATER BALANCE METHOD USING ELECTRONIC ANALOG COMPUTER N64-28402 20-12

ANALOG COMPUTER STUDY OF ENERGY EXCHANGE BETWEEN GASES AND SOLIDS
AFOSR-64-1001 N64-29249 21-23

ELECTROMECHANICAL ANALOG COMPUTER FOR COMPUTING CHANGES IN REACTIVITY IN HIGH-POWER-DENSITY THERMAL REACTOR
ORNL-3685 N64-29396 21-20

DESIGN AND CONSTRUCTION OF ANALOG COMPUTER FOR MONITORING MASS FLOWRATE OF ARGON THROUGH PIPING SYSTEM
NAA-SR-9745 N64-29450 21-20

ELECTRONIC SWITCHES AND CIRCUITS FOR ANALOG COMPUTATION
NASA-CR-58241 N64-29571 21-08

DESIGN OF MICROELECTRONIC PRECISION ANALOG AMPLIFIERS N64-31497 23-09

RADIO ENGINEERING - AUTOMATIC SPECTRUM ANALYZERS FOR ELECTRIC SIGNALS, ANALOG MACHINE FOR TEACHING, RADIO TRANSMITTERS, AND TRANSISTOR CIRCUITS
JPRS-26997 N64-32901 24-08

ELECTRONIC ANALOG MACHINES FOR TEACHING THEORETICAL RADIO ENGINEERING N64-32905 24-08

ANALOG COMPUTER SOLUTION OF EQUATIONS OF PARAMETRON WITH FERROMAGNETIC FILMS N64-32912 24-09

PRINCIPAL CHARACTERISTICS OF SUMMING DEVICES - COMPUTING AMPLIFIER N64-32914 24-09

ANALOG COMPUTER FOR EVALUATION OF AERODYNAMIC COEFFICIENTS DURING WIND TUNNEL STATIC STABILITY TESTS
NOLTR-64-74 N64-33860 24-10

ANALOG DATA

ANALOG-DIGITAL DATA RECORDING EQUIPMENT FOR INVESTIGATING JET ENGINE PERFORMANCE N64-13924 05-20

CODING ANALOG VARIABLE FOR CONSTANT PERCENTAGE ERROR
NASA-TN-D-2257 N64-17727 09-20

NONLINEAR ANALOG NETWORK FOR CONVERTING SURFACE TEMPERATURE TO HEAT FLUX - USE WITH THIN FILM RESISTANCE THERMOMETERS
CAL-130 N64-18176 10-15

ANALOG DATA ON HYPERSONIC FLOW OF PERFECT FLUID ABOUT BLUNT BODIES
FDL-TDR-64-92 N64-30926 22-02

RAPID RESPONSE INSTRUMENTATION FOR TURBULENT FLUX MEASUREMENT IN BOUNDARY LAYER AND FILM READER SYSTEM - ANALOG STATISTICAL ANALYZER
AFCRL-64-147 N64-31846 23-15

FILM TRANSPORT AND ANALOG STATISTICAL ANALYZER - STUDY OF ATMOSPHERIC PROPERTIES N64-31850 23-15

RATE-ANALOG DATA PROCESSING METHOD FOR MONITORING REPETITIVE PHYSIOLOGICAL VARIABLES DURING MANNED SPACE FLIGHT
AMRL-TDR-64-10 N64-32480 23-16

TRANSISTORIZED MULTIPLEXER FOR REPETITIVE SERIAL SAMPLING OF FOUR ANALOG DATA INPUTS
TN-SE-6-64 N64-33054 24-09

ANALOG VERIFICATION OF SMALL PERTURBATIONS LINEAR THEORY, PROFILE OF HYDRODYNAMIC CHARACTERISTICS, AND TANDEM PROBLEM FOR ANALOG STUDY OF HYDROFOILS NEAR FREE SURFACE
AD-602430 N64-33501 24-11

ULTRA LONG RANGE TELEMETRY STUDY - ANALOG VERSUS DISCRETE SYSTEMS
AL-TDR-64-87, VOL. II N64-33791 24-00

ANALOG SIMULATION

ANALOG SIMULATION OF ATTACK WARNING SYSTEM FOR SUPERSONIC AIRCRAFT
ASD-TDR-63-850 N64-11456 03-20

ANALOG DIFFERENTIATION FOR PROCESS CONTROL SYSTEMS
SUDAER-166 N64-13976 05-20

ANALOG COMPUTER SIMULATION OF THERMOREGULATORY MECHANISMS OF HUMAN BODY
AMRL-TDR-63-116 N64-14966 06-16

ANALOG SIMULATION OF DYNAMIC EQUATIONS OF ATMOSPHERIC BALLISTIC REENTRY
AEDC-TDR-63-257 N64-15522 07-20

APPLICATIONS OF ANALOG SIMULATIONS IN BIOMEDICAL SYSTEMS N64-16691 08-16

MEASURED HUMAN TRANSFER FUNCTIONS - MATCHING ANALOG SIMULATION TO PILOT PERFORMANCE DURING 1 & 2-AXIS TASKS WITH & WITHOUT COCKPIT MOTION
NASA-TN-D-2177 N64-17157 09-14

MATHEMATICAL MODEL OF QUASI-ANALOG SYSTEM WITH FEEDBACK CONTROL
FTD-TT-62-1557/1&2&4 N64-19192 11-20

STRETCHED ELASTIC SHEET ANALOG TO MAGNETIC FIELD FOR STUDY OF MAGNETOGASDYNAMIC FLOW
AD-437750 N64-26681 18-24

ANALOG-TO-DIGITAL CONVERTER
MULTISPEED RESOLVERS FOR ANALOG DIGITAL CONVERSION OF SHAFT ANGLES
NASA-TM-X-51204 N64-11229 02-20

DESIGN AND CIRCUIT CHARACTERISTICS OF 1024 CHANNEL TIME-OF-FLIGHT ANALYZER - ANALOG-TO-DIGITAL CONVERTER
EUR-475.I N64-14749 06-23

VARIABLE AREA MAGNETOGRAM ANALYZER - SCANNER, DIGITIZER, ADDER, DURATION-MODULATION CONVERTER, SUBTRACTOR, AVERAGER, AND PUNCHED CARD OUTPUT
AFCRL-63-939/2/ N64-15054 07-09

THIN FILM AND PLANAR TRANSISTOR ANALOG-TO-DIGITAL CONVERTER AND SYNCHRONOUS GENERATOR
NASA-CR-53561 N64-18425 10-20

DIGITAL MEASURING SYSTEMS AND ANALOG-TO-DIGITAL CONVERTERS N64-21751 15-20

SOLID STATE ANALOG-TO-DIGITAL CONVERTER - DEPLETION REGION MOVEMENT DETECTION AND ELECTRON AND HOLE INJECTION IN SEMICONDUCTOR P-N JUNCTION
MEMO-400 N64-21767 15-25

FABRICATION OF SOLID STATE ANALOG-TO-DIGITAL CONVERTER BASED ON DEPLETION REGION MOVEMENT IN SERICONDUCTOR P-N JUNCTION N64-21768 15-25

DARE II DATA ACQUISITION AND PROCESSING SYSTEM WITH MULTICHANNEL ANALOG-TO-DIGITAL CONVERTER
NOLTR-63-281 N64-22892 16-10

ANALOG-DIGITAL ADDER FOR FREQUENCY PULSED SIGNALS N64-24516 17-09

ANALOG-TO-DIGITAL CONVERTER FOR HIGH TEMPERATURE ENVIRONMENT
NASA CR-56668 N64-27306 19-09

BRUSHLESS ANALOG TO DIGITAL SHAFT POSITION ENCODER N64-31490 23-15

SOLID STATE SYNCHRO CONVERSION DEVICES N64-31493 23-09

ANALOG-TO-DIGITAL, BRUSHLESS, SHAFT ENCODER PROGRAM FOR WEAPONS SYSTEMS N64-31502 23-15

CIRCUITRY FOR AN ANALOG-TO-DIGITAL CONVERTER FOR REAL TIME EXPERIMENTS IN NUCLEAR PHYSICS
LNF-64/40 N64-32006 23-09

MULTICHANNEL SIGNAL ANALYZERS - MEMORY SYSTEMS, ANALOG-TO-DIGITAL CONVERTERS, AND READOUT DEVICES
ANL-6881 N64-33414 24-15

ANALOG-TO-DIGITAL CONVERTER-PULSE HEIGHT ANALYZER FOR DATA REDUCTION FROM BALLOON MEASUREMENTS
NASA-TM-X-55077 N64-33559 24-09

ANALYSIS
S MICROANALYSIS
S QUANTITATIVE ANALYSIS

ANALYTIC FUNCTION
SA CAUCHY-RIEMANN EQUATION
SA COMPLEX VARIABLE
SA POWER SERIES
COMPLEX VARIABLE ANALYTIC FUNCTIONS AND SOLUTIONS OF ELLIPTICAL SYSTEMS OF DIFFERENTIAL EQUATIONS
RSIC-172 N64-22909 16-20

ANALYTICAL FUNCTION FOR GIMBAL ANGLES OF ROLL STABLE PLATFORM
NOL-TR-75-45 N64-30885 22-15

ANALYTIC FUNCTION FOR DESCRIPTION OF SHAPE AND POSITION OF DETACHED SHOCK FRONT
DRL-512 N64-33700 24-11

ANALYZER
CF INDICATOR
ION EMISSION IN ANALYZER OF TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-63-722 N64-12611 04-15

APPARATUS FOR DIFFERENTIAL THERMAL ANALYSIS OF EXPLOSIVE MATERIALS
LANS-2988 N64-13294 04-26

CHARACTERIZATION OF SOLID ROCKET PROPELLANTS BY DIFFERENTIAL THERMAL ANALYSIS
RK-TR-63-21 N64-13933 05-26

DETECTOR-ANALYZER FOR STUDYING PROTON AND ION ENERGY DISTRIBUTION IN INTERPLANETARY SPACE AT SATELLITE ALTITUDES
NASA-TN-D-2111 N64-14727 06-24

VARIABLE AREA MAGNETOGRAM ANALYZER - SCANNER, DIGITIZER, ADDER, DURATION-MODULATION CONVERTER, SUBTRACTOR, AVERAGER, AND PUNCHED CARD OUTPUT
AFCRL-63-939/2/ N64-15054 07-09

EFFECT OF ALLOYING ON GAMMA-PHASE STABILITY OF URANIUM USING VACUUM DIFFERENTIAL THERMAL ANALYSIS
UCRL-7595 N64-16206 08-25

MODAL PATTERNS, MODAL FREQUENCIES, AND DAMPING FACTORS OF LIGHTLY DAMPED STRUCTURES DETERMINED BY COMPONENT ANALYZER N64-18556 11-33

DIFFERENTIAL THERMAL ANALYSIS OF METALS & ALLOYS
ASD-TDR-63-504 N64-18578 11-18

ANALYZER FOR DETECTION OF ORGANIC COMPOUNDS IN ATMOSPHERE OF NUCLEAR SUBMARINE
NRL-6064 N64-19407 12-16

PULSE HEIGHT ANALYZER AND LOGIC CIRCUITS FOR INTERPLANETARY MONITORING PLATFORM NUCLEAR ABUNDANCE EXPERIMENT - EXPLORER XVIII
NASA-TM-X-51623 N64-19590 12-15

PROBABILITY DENSITY ANALYZER - THEORY AND OPERATION
REPT. 895 N64-20482 13-15

GAS FLOW DIFFERENTIAL THERMAL ANALYZER FOR STUDY OF THERMAL DEGRADATION OF HIGH POLYMERS
REPT.-379 N64-24957 17-13

HAFNIUM-TANTALUM EQUILIBRIUM DIAGRAM OBTAINED BY OPTICAL PYROMETRY, METALLOGRAPHY, DIFFERENTIAL THERMAL ANALYSIS, AND X-RAY DIFFRACTION
BM-RI-6521 N64-28624 20-18

CALIBRATION AND CONTROL OF AMPLITUDE VOLTAGE ANALYZERS N64-29130 21-15

ZEOLITE TRAP IN SPUTTER-ION PUMP AS NOISE SUPPRESSOR IN MULTIPLIER OF MASS ANALYZER
NASA-CR-58538 N64-29700 21-15

EIGHT INPUT ADAPTER FOR MODIFYING TIME OF FLIGHT ANALYZER
IDO-16953 N64-30630 22-09

ANALYZING OR DISPERSING CRYSTAL FOR X-RAY SPECTROSCOPY
ASD-TDR-63-311 N64-30709 22-25

HIGH RESOLUTION ENERGY LOSS MAGNETIC ANALYZER FOR SCATTERING EXPERIMENTS
LNF-64/41 N64-32007 23-10

ANALYZER FOR ERROR DETECTION AND ANALYSIS OF SPACEBORNE DIGITAL TAPE RECORDERS
NASA-TN-D-1863 N64-32834 24-15

AUTOMATIC SPECTRUM ANALYZERS FOR ELECTRIC SIGNALS IN INFRASONIC, SONIC, AND ULTRASONIC FREQUENCY BANDS N64-32902 24-08

MULTICHANNEL SIGNAL ANALYZERS - MEMORY SYSTEMS, ANALOG-TO-DIGITAL CONVERTERS, AND READOUT DEVICES
ANL-6881 N64-33414 24-15

ANATOMY
SA LIVER
SA SPLEEN
SA STOMACH
PATHOLOGICAL ANATOMY OF ACUTE RADIATION SICKNESS IN RABBITS
AEC-TR-5630 N64-10430 01-16

ANATOMICAL & PHYSIOLOGICAL DATA OF GASTRO-INTESTINAL TRACT FOR CALCULATING LEVELS OF RADIOACTIVE CONTAMINATION IN FOOD CHAIN
EUR-489.F N64-16927 09-16

USE OF ANATOMICAL & PHYSIOLOGICAL EVIDENCE FOR CONSTRUCTING THEORIES OF INFORMATION PROCESSING OR SENSORY DISCRIMINATION - AUDITORY SYSTEM
N64-18830 11-16

ANECHOIC CHAMBER
SA ECHO
JET NOISE - NOISE-ANALYZING EQUIPMENT AND CONSTRUCTION OF ANECHOIC CHAMBER
NASA-CR-55144 N64-13008 04-23

STATIC RADAR REFLECTIVITY SYSTEM AND TECHNIQUE MEASUREMENT - ANECHOIC CHAMBER REQUIREMENTS
N64-24284 17-08

MEASUREMENT OF RADAR CROSS SECTION OF MODEL TARGETS IN ANECHOIC CHAMBER N64-24285 17-08

ANECHOIC CHAMBERS FOR RADAR BACKSCATTER MEASUREMENT N64-24286 17-08

EFFECT OF WALL ILLUMINATION ON PERFORMANCE OF ANECHOIC CHAMBER IN MICROWAVE REGION IN MEASURING RADAR REFLECTION PROPERTIES OF MATERIALS & OBJECTS
N64-24288 17-08

MEASUREMENT OF RADAR CROSS SECTION OF TARGETS IN MICROWAVE ANECHOIC CHAMBER N64-24297 17-08

SPIN-DROP METHOD OF MEASUREMENT OF RADAR CROSS SECTION OF MODEL IN ANECHOIC CHAMBER
N64-24312 17-08

SCALING OF MODELS WITH RADAR ATTENUATION COATINGS FOR MEASUREMENT OF RADAR REFLECTION PROPERTIES IN ANECHOIC CHAMBER N64-24323 17-08

ANECHOIC CHAMBER FOR MEASUREMENT OF BACKSCATTER AMPLITUDE AND PHASE AT MULTIPLE POLARIZATION
N64-24752 17-08

ANEMOMETER
CF METEOROLOGICAL INSTRUMENT
HEATED FILM THERMOANEMOMETER FOR LIQUID FLOW RATE MEASUREMENT
FTD-TT-63-482/1&2 N64-16371 08-11

ACOUSTIC DEVICE FOR MEASURING MEAN HORIZONTAL WIND FLOW THROUGH LAYER OF ATMOSPHERE - ANEMOMETER
ERDA-125 N64-18923 11-21

REMOTE CONTROLLED CUP ANEMOMETER WITH HIGH FREQUENCY DATA UNIT FOR MEASURING WIND SPEED
N64-20214 13-15

WIND PROFILE MODIFICATION EXPERIMENTS IN AIR FLOW OVER ICE USING MOVING AND STATIONARY ANEMOMETER MASTS N64-29535 21-21

CONTINUOUS WAVE SONIC ANEMOMETER FOR VELOCITY MEASUREMENTS N64-31849 23-15

ANESTHESIOLOGY
EFFECTIVENESS OF ANTIHISTAMINES IN ANESTHESIOLOGY
JPRS-22058 N64-11432 02-16

ANESTHETIC
S ETHER

ANGIOSPERM
GROWTH MEASUREMENTS AND PHOTOSYNTHESIS STUDY OF ANGIOSPERMS
AMRL-TDR-63-131 N64-18773 11-16

ANGLE OF ATTACK
STEADY-STATE CHARACTERISTICS OF DIFFERENTIAL PRESSURE SYSTEM FOR EVALUATING ANGLES OF ATTACK AND SIDESLIP OF RANGER IV VEHICLE
NASA-TN-D-1966 N64-10519 01-02

CYLINDRICALLY BLUNTED WEDGES TESTED AT HYPERSONIC SPEED AT VARIOUS ANGLES OF ATTACK
N64-15634 07-03

FORWARD SEPARATION ZONES - CONFIGURATION DURING SUPERSONIC GAS FLOW AROUND SYMMETRICAL BODIES AT ZERO ANGLE OF ATTACK N64-16389 08-02

LIFTING SURFACE THEORY FOR WINGS AT HIGH ANGLES OF ATTACK
VRC-9A N64-17121 09-03

HEAT TRANSFER MEASUREMENTS ON FLAT PLATE AND ATTACHED PROTUBERANCES IN TURBULENT BOUNDARY LAYER OVER RANGE OF MACH NUMBER, REYNOLDS NUMBER, AND ANGLE OF ATTACK
NASA-TN-D-2428 N64-29451 21-13

ANGLE-OF-ATTACK CONVERGENCE OF SPINNING BODIES ENTERING PLANETARY ATMOSPHERES AT LARGE INCLINATIONS TO FLIGHT PATH
NASA-TR-R-210 N64-32435 23-23

ANGULAR DISTRIBUTION
ANGULAR DISTRIBUTION AND POLARIZATION MEASUREMENTS OF HYPERON REACTION USING PHENOMENOLOGICAL MODEL
N64-21344 14-23

ANGULAR DISTRIBUTION OF SECONDARY IONS FROM ION BOMBARDMENT OF METAL SURFACES
FTD-TT-62-1719/1&2 N64-22146 15-23

STATISTICAL FLUCTUATIONS IN CROSS SECTIONS, EXCITATION FUNCTIONS AND ANGULAR DISTRIBUTIONS FOR NUCLEON TRANSFER REACTIONS, AND SPIN-CUTOFF PARAMETERS FROM COMPOUND NUCLEAR REACTIONS
ORNL-3630 N64-25526 17-23

ENERGY AND ANGULAR DISTRIBUTION OF RADIATION EMERGING FROM TEST SLABS IRRADIATED WITH NARROW BEAM OF NEUTRONS AND GAMMA RAYS
NARF-62-16T N64-28907 20-23

ANGULAR DISTRIBUTION OF FAST NEUTRONS SCATTERED THROUGH POLYETHYLENE-SLAB SHIELDING
NARF-63-5T N64-31300 22-23

ANGULAR VELOCITY
CF ANGULAR MOMENTUM
TRANSFER OF ANGULAR MOMENTUM BETWEEN EJECTED PARTICLES & BINARY SYSTEM - RESTRICTED THREE-BODY PROBLEM
NASA-RP-82 N64-11197 02-05

STEADY VORTEX FLOWS DRIVEN BY RADIAL CONVECTION OF ANGULAR MOMENTUM
ATN-64/9227/-4 N64-19246 11-11

HISTORY OF THEORIES ON ORIGIN OF SOLAR SYSTEM - ANGULAR MOMENTUM & EDDY DIFFUSION IN HYPOTHETICAL MODEL SOLAR NEBULA
AFCRL-64-167 N64-20391 13-23

WAVE FUNCTION OF DIATOMIC MOLECULES EXPANDED IN SERIES OF ORBITAL ANGULAR MOMENTUM EIGENFUNCTIONS
NASA-TM-X-51666 N64-20589 13-23

ERROR IN ESTIMATING MISSILE ANGULAR POSITION AND ANGULAR VELOCITY AT CUT-OFF
P-2796 N64-21407 14-23

VIBRATIONAL ALIGNMENT AND DAMPING IN COAXIAL ROTORS WITH DIFFERENT ANGULAR VELOCITIES
FTD-TT-64-75/1&2 N64-21969 15-06

ANGULAR MOMENTUM OF SOLAR INTERNAL & SURFACE LAYERS FOR DENSITY DISTRIBUTION CALCULATIONS
N64-23178 16-29

HIGH SPEED GYROSCOPE FOR MEASURING ANGULAR VELOCITIES OF ROTATION N64-23385 16-15

ANGULAR VELOCITY REGULATION WITH FLUID INTERACTION SYSTEM N64-25306 17-11

CONSERVATION LAW FOR ANGULAR MOMENTUM IN GENERAL RELATIVITY THEORY N64-27223 19-23

ANGULAR VELOCITY AND ACCELERATION PICKUP WITH TWO GYROSCOPES
FTD-TT-64-238/1&2&4 N64-27650 19-15

SCHROEDINGER EQUATION ANGULAR MOMENTUM PARTIALS FOR THREE BODY PROBLEM
NASA-TM-X-55102 N64-33636 24-23

INVERSION METHOD FOR BAROCLINIC ANGULAR VELOCITY EQUATION OF QUASIGEOTROPIC MODELS
AD-603571 N64-33835 24-21

ANIMAL STUDY
SA BAT
SA BIRD
SA CAT
SA CHIMPANZEE
SA DOG
SA DOLPHIN
SA FISH
SA FROG
SA GOAT
SA GUINEA PIG
SA MAMMAL
SA MONKEY
SA ORGANISM
SA PIGEON
SA RABBIT
SA RAT
CF ZOOLOGY
HIGH TEMPERATURE ENVIRONMENT EFFECTS ON HUMAN AND ANIMAL BLOOD COMPOSITION AND PROPERTIES
JPRS-21405 N64-10002 01-16

PROCEDURES AND EQUIPMENT USED TO EXPOSE SMALL ANIMALS TO AEROSOLS OF FISSION PRODUCTS
LF-11 N64-11206 02-16

ANIMAL BEHAVIOR STUDIES WITH MULTI-ENCLOSURE, PROGRAMMED ENVIRONMENT, AND TELEMETRY SYSTEMS
N64-11258 02-16

COMBINED ACTION OF NEUTRON IRRADIATION AND ELEVATED TEMPERATURE ON ANIMALS
JPRS-20379 N64-11433 02-16

CHOICE OF ANIMAL & LOGISTICS FOR BIOLOGICAL EXPERIMENTS IN SATELLITE N64-11688 03-16

SPACE CABIN FOR HOUSING ANIMALS DURING SPACE FLIGHT N64-11689 03-16

AIR REGENERATION SYSTEM FOR SEALED CAPSULE OCCUPIED BY ANIMALS DURING SPACE FLIGHTS
N64-11691 03-16

SANITARY DEVICES FOR ANIMALS IN SEALED SPACE CABIN
N64-11693 03-16

HYPOTHERMIA & ARTIFICIAL HIBERNATION FOR SPACE TRAVEL - ANNOTATED BIBLIOGRAPHY
SID-63-354 N64-11821 03-16

MORPHOLOGICAL & HISTOLOGICAL INVESTIGATION OF VESTIBULAR APPARATUS OF ANIMALS IN CHANGING GRAVITATIONAL FIELD N64-11862 03-16

CHARACTERIZATION OF VITAL MANIFESTATIONS OF TEMPERAMENT
JPRS-22405 N64-12009 03-16

ANIMAL ABSORPTION OF RADIONUCLIDES
EUR-368.D N64-12474 04-07

COMPUTER MODEL FOR ANIMAL BEHAVIOR STUDY AND INSTRUCTION FOR RECOGNITION - CYBERNETICS
N64-12525 04-16

STOCHASTIC MACHINE INSTRUCTION AND APPLICATION TO BEHAVIOR OF LIVING THINGS - CYBERNETICS
N64-12526 04-16

PLANT AND ANIMAL AUTOMATIC CONTROL MECHANISMS - INTERNAL PROCESS SELF-REGULATION - CYBERNETICS
N64-12529 04-16

FAT EMBOLISM IN ANIMALS DURING DECOMPRESSION
N64-12756 04-16

ANTIRADIATION ACTIVITY OF SULFUR AMINO ACID COMPOUNDS ON ANIMAL TISSUE N64-12797 04-16

CYSTEAMINE ASCORBATE AS SHIELDING AGENT IN ANIMALS GIVEN PRIMARY & SECONDARY IRRADIATION
N64-12888 04-16

EFFECT OF X-RAY IRRADIATION DURING HIBERNATION ON TISSUE CATECHOLAMINE CONTENTS N64-12943 04-16

ACOUSTIC PARAMETERS & ULTRASONIC VISUALIZATION OF ORGANS & TISSUES OF MAN & ANIMALS
JPRS-22840 N64-13350 04-16

HUMAN CENTRIFUGES & PHYSIOLOGICAL EFFECTS OF ACCELERATION - HUMAN PERFORMANCE & TOLERANCE, AND ANIMAL STUDIES
AGARDOGRAPH-48 N64-13451 05-01

INCREASED HOST RESISTANCE TO ACCELERATION STRESS - DRUGS, CONDITIONING, HYPOPHYSECTOMY, RETICULO-ENDOTHELIAL STIMULATION N64-13464 05-16

CENTRIFUGES FOR STUDYING LONG TERM ACCELERATION STRESS ON MAN AND ANIMALS N64-13465 05-16

LABELLED THYMIDINE AND RADIOAUTOGRAPHY TO ASSESS ADRENAL CELL FORMATION IN ANIMALS AFTER VARIOUS TIMES OF COLD EXPOSURE
AAL-TDR-63-7 N64-13631 05-16

HIBERNATION IN MAMMALS AND BIRDS
AAL-TDR-63-3 N64-13661 05-16

GAS CONSUMPTION AND METABOLISM OF COLD-BLOODED ANIMALS AND MIGRATION & RADIOACTIVITY OF MARINE ANIMALS
JPRS-23285 N64-15334 07-16

ELECTRONIC SIMULATION OF BIOLOGICAL CLOCK - ANIMAL STUDY AND STATISTICAL ANALYSIS
ASD-TDR-63-136 N64-15592 07-16

ANTHRAX VACCINE INJECTION IN ANIMALS TO REDUCE MORTALITY RATE FROM RADIATION SICKNESS
N64-15680 07-16

THYROIDAL INFLUENCE ON SURVIVAL OF ALTITUDE-EXPOSED ANIMALS, PROTECTIVE EFFECTS OF CORTISOL
SAM-TDR-63-101 N64-15746 07-16

WEIGHTLESSNESS EXPERIMENTS WITH VARIOUS ANIMALS
FTD-TT-63-618/1 N64-16379 08-16

HUMAN AND ANIMAL TOLERANCE OF HEAT
FTD-TT-63-650/1&4 N64-16383 08-16

ANIMAL POPULATION AND ECOLOGY AT ATOMIC POWER-PLANTS
TID-19562 N64-16554 08-16

FOUR EXPERIMENTAL STUDIES ON RADIATION SICKNESS THERAPY FOR ANIMALS
JPRS-23678 N64-16694 08-16

CELL DAMAGE IN RADIATION REACTION OF ANIMAL ORGANISM N64-16906 09-16

DISRUPTIONS OF NATURAL IMMUNITY IN IRRADIATED ANIMALS AND METHODS OF REESTABLISHING
N64-17169 09-16

EFFECTS OF TRANQUILIZER ON BODY TEMPERATURE
CARI-63-23 N64-17236 09-16

ANIMAL DISCRIMINATION AND RECOGNITION IN NOISE-FREE ENVIRONMENT N64-18836 11-16

DATA ON ACCUMULATION COEFFICIENTS OF RADIOACTIVE ISOTOPES IN MARINE PLANTS AND ANIMALS
JPRS-24227 N64-18969 11-16

BIBLIOGRAPHY - RADIATION EFFECT ON ANIMALS, MAN, AND PLANTS
SB-62-60 NAA-20517 13-16

MONITORING INSTRUMENTATION FOR PHYSIOLOGICAL RESPONSE OF EXPERIMENTAL ANIMALS IN BALLOON FLIGHTS
NASA-CR-53652 N64-20598 13-14

MEDICAL RADIOLOGY - RADIATION SICKNESS, ANIMAL STUDY, AND CYBERNETICS
JPRS-24452 N64-20943 14-16

SERUM PROPHYLAXIS AND THERAPY OF BACTERIAL INTOXICATIONS IN IRRADIATED ANIMALS
N64-20946 14-16

CAUSE OF DECREASE IN NATURAL RESISTANCE OF IRRADIATED ANIMALS TO LIVE BRUCELLOSIS VACCINE
JPRS-24896 N64-21282 14-16

TISSUE MECHANISMS - ADAPTATION OF ANIMALS TO REDUCED OXYGEN CONTENT IN ENVIRONMENT
JPRS-16105 N64-21480 14-16

EXTRASENSORY PERCEPTION - HUMAN COMMUNICATION WITH ANIMALS
FTD-TT-62-1876/1 N64-21928 15-16

CARBOXYHEMOGLOBIN IN DECOMPOSED BODIES OF ANIMALS
AMRL-TDR-63-69 N64-22290 15-16

REACTION OF HUMAN AND ANIMAL CARDIOVASCULAR SYSTEM UNDER CONDITIONS OF WEIGHTLESSNESS
NASA-TT-F-8895 N64-22941 16-14

ORGANISM PHYSIOLOGICAL MECHANISMS FOR REGULATION AND PROTECTION - ANIMAL STUDY N64-23464 16-16

ARTIFICIAL HIBERNATION AND SPACE BIOLOGY
N64-23756 16-16

LANDING IMPACT STRESS ON ANIMALS IMMERSED IN WATER
N64-23763 16-16

LONG-LASTING TRANSVERSE G-FORCE EFFECT ON CENTRAL NERVOUS SYSTEM OF ANIMALS N64-23766 16-16

AEROSPACE MEDICINE - WEIGHTLESSNESS AND ARTIFICIAL GRAVITY EFFECTS ON PLANTS, ANIMALS, AND HUMAN PERFORMANCE
FTD-TT-64-140/1&4 N64-24012 16-16

TOXICOLOGY - ACTION OF DRUGS ON ANIMALS
N64-24612 17-16

MECHANISM OF SPATIAL PERCEPTION IN BEHAVIOR OF ANIMALS & PATHWAYS AND STRUCTURE OF SPATIAL ANALYSIS N64-25134 17-16

REACTION OF NEURONS OF VESTIBULAR NUCLEI TO STIMULATION OF VESTIBULAR APPARATUS THROUGH PASSIVE VERTICAL MOTION OF ANIMALS
JPRS-25896 N64-27323 19-16

REACTION OF CARDIOVASCULAR SYSTEM OF MAN AND ANIMALS UNDER WEIGHTLESSNESS N64-29090 21-16

INTERRELATIONSHIPS AMONG CONDITIONED RESPONSES IN ANIMALS AND HUMANS
FTD-TT-64-282/1&2 N64-30156 21-16

ANIMAL METABOLISM AND DETOXIFICATION OF METABOLIC PRODUCTS DURING RADIATION INJURIES
JPRS-26500 N64-30742 22-16

PHARMACOLOGICAL CHARACTERISTICS OF SEVERAL PREPARATIONS - ANIMAL STUDY
JPRS-26645 N64-31341 23-16

ANIMAL STUDY FOR PHARMACOLOGICAL EFFECTS ON BRAIN STEM FROM ADMINISTRATION OF ARECOLINE HYDROBROMIDE AND PHENAMINE N64-31342 23-16

PHYSIOLOGY OF NERVOUS SYSTEMS OF HUMANS & ANIMALS
JPRS-26427 N64-31457 23-16

ANIMAL STUDY OF CONDITIONED RESPONSE - LEVER-PRESSING BEHAVIOR OF RATS IN FIXED RATIO AND IN EXTINCTION
NADC-ML-6407 N64-31665 23-14

INFLUENCE OF HIBERNATION ON COXSACKIE VIRUS INFECTIONS IN ALASKAN GROUND SQUIRREL
AAL-TDR-63-25 N64-31935 23-14

BIBLIOGRAPHY ON NATURAL MAMMALIAN HIBERNATION
AAL-TDR-63-34 N64-31936 23-14

ENDOCRINE AND METABOLIC RESPONSE OF RESTRAINED DOGS TO WHOLE-BODY VIBRATION
AMRL-TDR-64-54 N64-31943 23-14

NEUROPHYSIOLOGICAL ANIMAL STUDIES - BEHAVIOR MODIFIED BY DRUG INDUCEMENT
AD-601689 N64-32410 23-14

GRADIENT LAYER ANIMAL CALORIMETER FOR MONITORING RADIANT AND EVAPORATIVE COMPONENTS OF HEAT LOSS
SAM-TDR-64-53 N64-32574 23-13

DELIVERY APPARATUS OF PURE OXYGEN TO CLOSED SYSTEM AND CONSUMPTION MEASUREMENT IN CHRONIC EXPERIMENTS WITH SMALL ANIMALS
FTD-TT-63-1118/1&2&4 N64-32663 23-14

PHYSIOLOGICAL PROBLEMS OF ANIMALS - EFFECTS OF AGING, ULTRASONIC MEDICINE, MOBILITY OF NERVE PROCESSES, AND WEIGHTLESSNESS IN WATER ON HUMAN BODY
JPRS-26990 N64-33486 24-14

ANIMAL STUDIES ON EFFECTS OF ANTISEROTONIN DRUGS
AD-447846 N64-33662 24-14

DISTRIBUTION OF RADIOACTIVE CALCIUM AND ITS EXCRETION FROM HEALTHY AND LEAD-POISONED ANIMALS
JPRS-26888 N64-33854 24-14

ANISOTROPIC MATERIAL
STRESS ANALYSIS OF STRAIGHT-LINE DISLOCATION NEAR PLANE OF DISCONTINUITY OF ELASTIC CONSTANTS IN UNLIMITED ANISOTROPIC MEDIUM N64-10734 02-25

GREEN FUNCTION FOR ELECTROMAGNETIC WAVES IN ANISOTROPIC MEDIUM - ANTENNA THEORY
NASA-CR-55102 N64-12396 03-01

GENERAL SOLUTION FOR SYSTEM OF DIFFERENTIAL EQUILIBRIUM EQUATIONS IN DISPLACEMENT OF ANISOTROPIC BODY
RSIC-10 N64-13032 04-23

BROWNIAN MOTION APPLIED TO ELECTRON AND ION DIFFUSION IN PLASMA ACROSS MAGNETIC FIELD WITH ANISOTROPIC DYNAMICAL FRICTION
AFCRL-63-775 N64-13669 04-24

PROPAGATION OF H-WAVES ON ANISOTROPIC DIELECTRIC SLAB
AFCRL-62-776 N64-13775 05-23

UNIFORMLY MOVING DISLOCATIONS IN ISOTROPIC MEDIA - FRACTURE MECHANICS
RAC-1699 N64-13841 04-25

VIBRATION MODES OF ANISOTROPIC HEXAGONAL METALLIC ZINC CRYSTALS
AMRA-TR-63-19 N64-14690 04-25

PROPAGATION EQUATIONS FOR HYDROMAGNETIC SIGNALS IN ANISOTROPIC IONOSPHERE
RM-3830-PR N64-16048 07-12

TRANSMISSION OF POLARIZED LIGHT THROUGH ORIENTED, ANISOTROPIC, THIN POLYMER FILM
ONR-TR-67 N64-16476 08-23

EFFECT OF SURROUNDING ANISOTROPIC MATERIAL ON ELECTROMAGNETIC RADIATION
PIBMRI-1124-63 N64-18387 10-23

FOCUSING OF ELECTROMAGNETIC RADIATION BY ANISOTROPIC PLASMA HALF SPACE
PIBMRI-1202-63 N64-18603 11-24

THEORY OF VERY LOW FREQUENCY RADIO PROPAGATION BETWEEN SPHERICAL CONDUCTING EARTH AND CONCENTRIC ANISOTROPIC IONOSPHERE N64-19694 12-01

MECHANICAL ANISOTROPY OF TITANIUM SHEET ALLOYS IN UNIAXIAL TENSION - INVALIDATION OF HILL THEORY

ANRA-TR-63-36 N64-20418 13-18

CORRESPONDENCE PRINCIPLE FOR LINEARIZED THEORY OF WAVE PROPAGATION THROUGH ANISOTROPIC AND INHOMOGENEOUS VISCOELASTIC SOLIDS
TR-25 N64-21183 14-23

DEFORMATION PROCESSING OF ANISOTROPIC METALS
PR-4 N64-23674 16-18

MICROWAVE GENERATION BY ELECTRON BEAM INTERACTION WITH ANISOTROPIC MEDIA
REPT.-2 N64-25693 17-24

MICROWAVE POWER GENERATION AND AMPLIFICATION USING DOUBLE STREAM INSTABILITIES IN ANISOTROPIC MEDIA - PYROLYTIC GRAPHITE
QPR-2 N64-28224 20-25

PERMEABILITY OF ANISOTROPIC FISSURED ROCK
N64-28492 20-12

USE OF ANISOTROPIC DYE MOLECULES TO TAG AMORPHOUS REGIONS OF POLYCRYSTALLINE POLYMERS
ONR-TR-68 N64-30174 21-19

PLASMA OSCILLATIONS IN ANISOTROPIC MATERIALS FOR MICROWAVE POWER GENERATION AND AMPLIFICATION - PYROLYTIC GRAPHITE
REPT.-1 N64-30763 22-24

ELECTROMAGNETIC PROPAGATION MODES IN ANISOTROPIC PLASMAGUIDES AND RESONATORS
AL-TDR-64-157 N64-30981 22-24

PLASMA OSCILLATIONS IN ANISOTROPIC MATERIALS LIKE PYROLYTIC GRAPHITE FOR MICROWAVE GENERATION AND AMPLIFICATION
REPT.-3 N64-31114 22-25

POTENTIAL ADVANTAGES OF ANISOTROPIC SUPERCONDUCTOR IN FORCE-FREE SOLENOID
NASA-TN-D-2156 N64-32636 23-23

ANISOTROPIC SHELL
THERMAL STRESSES IN ANISTROPIC HOLLOW CYLINDERS AND APPLICATION TO PYROLYTIC GRAPHITE CYLINDERS
WADD-TR-61-72, VOL. 19 N64-15576 07-19

THEORY OF ANISOTROPIC SHELLS
NASA-TT-F-118 N64-22801 16-23

EQUATIONS OF ANISOTROPIC SHELL ELASTICITY THEORY IN CURVILINEAR COORDINATES N64-22802 16-23

EQUATIONS OF THEORY OF SHELLS CONSISTING OF SEVERAL ANISOTROPIC LAYERS N64-22803 16-23

MEMBRANE THEORY OF ANISOTROPIC SHELLS
N64-22804 16-23

SYMMETRICALLY LOADED ANISOTROPIC SHELLS OF REVOLUTION N64-22805 16-23

ANISOTROPIC CYLINDRICAL SHELLS N64-22806 16-23

SHALLOW ANISOTROPIC SHELLS N64-22807 16-23

THEORIES OF ANISOTROPIC PLATES AND SHELLS
N64-22808 16-23

ANISOTROPY
CF CRYSTAL STRUCTURE
USING ANISOTROPIC EFFECTS IN HELICALLY WOUND SUPERCONDUCTING SOLENOIDS TO INCREASE MAGNETIC FIELD
NASA-TN-D-2083 N64-11194 02-23

ANISOTROPY OF THERMAL NEUTRON DIFFUSION CONSTANT IN POLYMETHYL METHACRYLATE WITH EMPTY CHANNELS
NIJS-R-413 N64-11398 02-23

MAGNETOHYDRODYNAMICS IN PRESENCE OF ANISOTROPIC CONDUCTIVITY
FTD-MT-63-7/1&2&3&4 N64-14374 06-24

PLASTIC DEFORMATION AND ANISOTROPY IN TITANIUM ALLOYS AND SHEET STEEL
AD-431969 N64-17642 09-17

ANISOTROPIES IN SOLAR COSMIC RAY FLUXES - CRITERIA FOR SPACE VEHICLE AND SHIELDING DESIGN
N64-17892 10-28

SPIN-WAVE ANISOTROPY IN PARALLEL PUMPING EXPERIMENTS AT X-BAND FREQUENCIES - SINGLE CRYSTAL YTTRIUM-IRON GARNET
AFCRL-64-14 N64-19124 11-25

PLANE-STRAIN DEFORMATION OF TITANIUM ALLOY - VARIATION OF PLASTIC ANISOTROPY WITH TEMPERATURE AND STRAIN
PR-2 N64-20268 13-17

MICROWAVE RESONANCE PROPERTIES OF SINGLE CRYSTAL FERRITES WITH UNIAXIAL ANISOTROPY
USAELRDL-TR-2384 N64-20448 13-25

ANISOTROPIC SCATTERING APPROXIMATIONS IN BOLTZMANN NEUTRON TRANSPORT EQUATION
LA-3051 N64-20826 14-23

OPTICAL ANISOTROPY AND CONFORMATION OF MOLECULES OF SOLUBLE RIBONUCLEIC ACID
JPRS-24844 N64-21045 14-07

REDUCTION OF ANISOTROPY FIELD OF THIN MAGNETIC FILMS BY ANNEALING
NADC-EL-6369 N64-21360 14-25

RADIATIVE TRANSFER IN FINITE HOMOGENEOUS ATMOSPHERES WITH ANISOTROPIC SCATTERING - UNIQUENESS PROBLEM FOR CHANDRASEKHAR EQUATIONS
RM-3909-PR N64-21910 15-23

LIQUID CRYSTALS - ANISOTROPY
FTD-TT-63-958/1&2 N64-22359 15-07

ANISOTROPY IN YOUNGS MODULUS FOR 18 PERCENT NICKEL MARAGING STEEL N64-24360 17-18

COSMIC RAY ANISOTROPY IN SOLAR CORPUSCULAR STREAMS
N64-24446 17-28

MAGNETOIONIC THEORY FOR MASS-ANISOTROPIC ELECTRONS
RR-47 N64-26908 18-25

ANISOTROPY OF COEFFICIENT OF ION-ELECTRON EMISSION IN SINGLE CRYSTALS
FTD-TT-64-130/1&2&4 N64-27080 19-25

FERRIMAGNETIC RESONANCE RELATIONS FOR MAGNETIC CRYSTALLINE ANISOTROPY IN CUBIC CRYSTALS
AFCRL-64-72 N64-27423 19-25

COSMIC RAY ANISOTROPY
NASA TN-D-2404 N64-27664 19-28

ANISOTROPIC LIGHT SCATTERING BY INNER FIELD FLUCTUATIONS IN DENSE MONATOMIC GAS
AD-602919 N64-30666 22-23

ANISOTROPY AND MAGNETIZATION REVERSAL IN FACE-CENTERED-CUBIC SINGLE CRYSTAL COBALT FILMS
AFCRL-64-420 N64-31986 23-25

APPROXIMATE SOLUTION OF RADIATIVE TRANSFER PROBLEM IN ANISOTROPIC SCATTERING
NASA-TT-F-9141 N64-33405 24-12

PROGRAM STATEST - FORTRAN PROGRAM USING STATISTICAL ESTIMATION TO CALCULATE NEUTRON FLUX IN ANISOTROPICALLY SCATTERING MEDIA
ORNL-3715 N64-33900 24-23

ANNA SATELLITE
SHORT ARC ORBIT DETERMINATION FOR ANNA SATELLITE
AFCRL-64-273 N64-25591 17-32

GEODETIC POSITIONING FROM SIMULTANEOUS OPTICAL OBSERVATIONS OF ANNA 1-B GEODETIC SATELLITE
AFCRL-64-562 N64-29994 21-12

LONG LINE GEODETIC AZIMUTHS FROM OPTICAL OBSERVATIONS OF ANNA FLASHING SATELLITE
AFCRL-64-446 N64-32108 23-32

THEODOLITE OBSERVATIONS OF NIDAS III AND V.

ALOUETTE, ANNA, AND STARAD SATELLITES - JUNE 1964
N64-33251 24-08

ANNEALING
CRYSTAL TENSILE STRENGTH AND ANNEALING EFFECT ON GERMANIUM CRYSTALS - EDGE DISLOCATIONS AND ELASTIC STRESSES IN SILICON
JPRS-17689 N64-10708 02-25

ANNEALING EFFECT ON DENSITY OF DISLOCATIONS AND COMPRESSION CURVES OF GERMANIUM CRYSTALS
N64-10710 02-25

SEMICONDUCTOR THIN FILMS - ANNEALING GALLIUM ARSENIDE
AD-423328 N64-11028 02-25

ANNEALING TEMPERATURE AND GRAIN SIZE EFFECT ON DUCTILITY AND BRITTLENESS OF POWDERED TUNGSTEN
ASD-TDR-63-676 N64-11769 03-18

SWELLING OF ALUMINUM-CLAD ALUMINUM-PLUTONIUM ALLOYS ON POSTIRRADIATION ANNEALING
ANL-6651 N64-12697 04-18

IRRADIATION AND POSTIRRADIATION ANNEALING OF SOME ALUMINUM-BASE URANIUM FUELS
ANL-6665 N64-13025 04-18

HYDROGEN CONCENTRATION AND HYDRIDE MORPHOLOGY EFFECTS ON TENSILE PROPERTIES OF ANNEALED AND QUENCHED ZIRCALOY
WAPD-TM-275 N64-15392 07-18

MACHINABILITY OF STEEL PARTS IN ANNEALED AND HEAT TREATED CONDITIONS
A463 N64-16782 08-18

ANNEALING CYCLE EFFECT ON GRAIN SIZE AND PRECIPITATE MORPHOLOGY IN NICKEL-CHROMIUM STEEL
A470 N64-17132 09-18

THERMOELECTRIC POWER OF ANNEALED AND COLD WORKED BISMUTH
N64-17967 10-23

RADIATION THERMOMETER FOR CONTROLLING AND REGULATING FURNACE TEMPERATURE DURING METAL ANNEALING
FTD-TT-63-64/162 N64-21943 15-15

DENSITY CHANGES ON ANNEALING COLD-WORKED MOLYBDENUM
FA-A64-6 N64-22893 16-18

QUENCHING AND ANNEALING OF ZONE REFINED ALUMINUM
TR-1 N64-24187 16-18

HEATING RATE EFFECTS ON TEMPERATURE RANGES IN ANNEALING OF STEEL - CRYSTAL FORMATION & GROWTH IN ALLOYS
FTD-TT-63-48/162 N64-25428 17-18

HEATING RATE EFFECTS ON TEMPERATURE RANGES IN ELECTROANNEALING OF STEEL
N64-25429 17-18

EFFECT OF SIMULATED IN-REACTOR ANNEALING ON MECHANICAL PROPERTIES OF IRRADIATED STAINLESS STEEL PRESSURE TUBE
BMI-1683 N64-27969 20-18

ELECTRON MICROSCOPIC INVESTIGATION OF ANNEALED AND ION BOMBARDED SINTERED ALUMINUM POWDER FOILS
EUR-1833.E N64-28132 20-18

ANNEALING OF ETCHED TANTALUM FOIL AND OPTIMUM ELECTROLYTE COMPOSITION FOR SOLID ELECTROLYTE TANTALUM FOIL CAPACITOR
AD-603305 N64-28607 20-09

DEFECT STRUCTURES IN QUENCHED AND ANNEALED GALLIUM ARSENIDE CRYSTALS
SEL-64-069 N64-29893 21-25

OXIDATION RATES AND ACTIVATION ENERGIES OF ALTERNATELY IRRADIATED AND ANNEALED GRAPHITES
BNL-7567-R2 N64-32370 23-07

STRAIN MEASUREMENT BY ELECTRON MICROSCOPY AND X-RAY DIFFRACTION AND HIGH TEMPERATURE EFFECT OF ANNEALING ON AGGLOMERATION
NASA-CR-59215 N64-33122 24-18

ANNUAL VARIATION
ANNUAL VARIATION OF GEOMAGNETIC ACTIVITY
N64-11659 03-12

PREPARATION OF MEAN ANNUAL TROPICAL AND SUBTROPICAL ATMOSPHERES
AFCRL-63-936 N64-17320 09-21

ANNUAL VARIATION IN RADIANT DISTRIBUTION OF SPORADIC METEORS
N64-24057 16-05

ANNUAL VARIATION OF RADIANT FLOW EFFECT ON EARTH SURFACE HEAT EXCHANGE
N64-24801 17-21

ANNUAL VARIATION OF FLIGHT PERFORMANCE OF VISCOUNT TRANSPORT AIRCRAFT RECORDED BY FATIGUE TESTING MACHINE
ARC-CP-667 N64-28851 20-04

ANNULAR NOZZLE
ANNULAR NOZZLE TYPE GROUND EFFECT MACHINE OPERATIONS OVER WATER - SURFACE CONFIGURATION
IER SER. 187, ISSUE 3 N64-12919 04-04

ANNULAR NOZZLE TYPE GROUND EFFECT MACHINE OPERATIONS OVER WATER - WAVE EFFECTS
IER SER. 187, ISS. 7 N64-12932 04-04

PLASMA FLOW IN MAGNETIC ANNULAR ARC NOZZLES
N64-31606 23-27

ANODE
SA ANION
CF BATTERY
CF CATHODE
CF ELECTRODE
MAGNESIUM ANODE BEHAVIOR WITH ELECTROLYTES OF MAGNESIUM COMPOUNDS
N64-12980 04-09

ANODIC BEHAVIOR OF ZINC, MERCURY, AND SILVER IN SELECTED AQUEOUS MEDIA - SYNTHESIS OF BERYLLIUM DI-ALKYLS
NASA-CR-55568 N64-15549 07-06

RESEARCH ON HIGH CAPACITY NONAQUEOUS SECONDARY BATTERY ANODE AND CATHODES
NASA-CR-53087 N64-16736 08-06

ANODE CATALYST MATERIAL FOR OPERATION OF DIRECT HYDROCARBON FUEL CELLS AT LOW TEMPERATURES
N64-17407 09-06

BATTERIES USING LIQUID AMMONIA AS ELECTROLYTIC SOLVENT WITH MAGNESIUM ANODE AND MERCURIC SULFATE OR SILVER CHLORIDE CATHODES
N64-17422 09-06

SMALL MERCURY-POTASSIUM FUEL CELLS USING LOW POTASSIUM AMALGAM IN ANODE
NASA-CR-53351 N64-18288 10-06

ATTEMPT TO IMPROVE FLUORINE GENERATING ELECTRIC CELL LIFE BY USING CARBON TO CARBON ANODE CONNECTIONS
KY-452 N64-19074 11-17

EFFECT OF DEFORMATION ON ANODIC DISSOLUTION OF PURE POLYCRYSTALLINE MAGNESIUM IN DILUTE SULFURIC ACID
TR-7 N64-23603 16-07

FORMATION OF THIN ANODIC FILMS OF SILVER OXIDE
TR-1 N64-25631 17-09

THERMAL ANALYSIS OF ANODE AND CATHODE REGIMES IN ELECTRIC ARC COLUMN
NASA-CR-54119 N64-32691 23-13

ANOXIA
CF HYPOXIA
ELECTROENCEPHALOGRAPHIC RECORDING OF EFFECTS OF PROFOUND ANOXIA UPON CENTRAL NERVOUS SYSTEM
N64-14585 06-16

REGIONAL METABOLISM AND CIRCULATION OF CEREBRAL CORTEX AND EFFECT ON SELECTIVE VULNERABILITY TO ANOXEMIA
N64-14587 06-16

ANTARCTICA
RIOMETRIC OBSERVATIONS IN ANTARCTICA TO PROVIDE ABSORPTION DATA DURING SOLAR COSMIC RAY EVENTS
DOUGLAS PAPER-1655 N64-11285 02-12

SECULAR VARIATIONS OF GEOMAGNETIC FIELD IN ANTARCTICA N64-11664 03-12

RIOMETER OBSERVATIONS IN ANTARCTIC OF SOLAR COSMIC RAY EVENTS DURING 1962 & 1963 N64-13173 04-28

GEOPHYSICAL STRUCTURE OF EARTH CRUST IN TRANSITION ZONE FROM ANTARCTIC CONTINENT TO INDIAN OCEAN
JPRS-22888 N64-13948 05-12

THICKNESS OF EARTH CRUST AND DEPTH OF MOHOROVICIC DISCONTINUITY IN ANTARCTIC REGION
JPRS-23107 N64-14534 06-12

GEOLOGICAL ACTIVITY OF ICE SHEET ON BEDROCK SURFACE OF ANTARCTICA N64-16455 08-12

ATMOSPHERIC RADIO NOISE AT BYRD STATION, ANTARCTICA - MEASUREMENT, SOURCES, AND ABSORPTION PHENOMENA
RAD-TR-63-46 N64-16850 08-12

METEOROLOGICAL ROCKET DATA PROFILE OF STRATOSPHERIC CIRCULATION AND TEMPERATURE STRUCTURE AT MCMURDO, ANTARCTICA N64-20673 13-12

METEOROLOGICAL ROCKET SITE AT MCMURDO, ANTARCTICA AND TEMPERATURE AND WIND PROFILES OBTAINED DURING FIRST ROCKET FIRINGS N64-20775 14-10

AERIAL PHOTOGRAPHY OF ANTARCTIC ICE IN LUTZOW-HOLM BAY VICINITY N64-23057 16-12

METEOROLOGICAL INVESTIGATION IN ARCTIC AND ANTARCTIC N64-24405 17-21

ANTARCTIC STRATOSPHERIC & TROPOSPHERIC SEASONAL TEMPERATURE VARIATIONS N64-24457 17-21

MASS & HEAT TRANSPORTS OF ANTARCTIC STRATOSPHERE N64-24458 17-21

ANTARCTIC MICROMETEOROLOGY AND CLIMATOLOGY N64-24484 17-21

METEOROLOGIC SATELLITE OBSERVATION OF SOUTHERN HEMISPHERE CLOUD PATTERNS - ANTARCTICA RESUPPLY OPERATIONS
ARA-F-9228-2 N64-30566 22-21

ANTENNA
SA DIPOLE ANTENNA
SA HELICAL ANTENNA
SA HORN ANTENNA
SA LENS ANTENNA
SA LOG PERIODIC ANTENNA
SA LOG SPIRAL ANTENNA
SA LOOP ANTENNA
SA MICROWAVE ANTENNA
SA MISSILE ANTENNA
SA MONOPULSE ANTENNA
SA MULTIPLE BEAM INTERVAL SCANNER /MUBIS/
SA RADAR ANTENNA
SA RADIO ANTENNA
SA RHOMBIC ANTENNA
SA SPIRAL ANTENNA
SA STEERABLE ANTENNA
SA TRACKING ANTENNA
HIGH FREQUENCY AND VERY HIGH FREQUENCY ROCKETBORNE SHROUD ANTENNAS
NASA-TM-X-51059 N64-10109 01-09

TELSTAR SATELLITE ANTENNA SYSTEM FOR MICROWAVE AND BEACON N64-10874 02-30

DIGITAL CONTROL & DATA PROCESSING EQUIPMENT FOR ANTENNA POINTING SYSTEM USED FOR SATELLITE TRACKING N64-10886 02-08

GIANT-APERTURE ANTENNAS FOR SPACE COMMUNICATION AND DETECTION
AFCRL-63-51 N64-11760 03-08

GREEN FUNCTION FOR ELECTROMAGNETIC WAVES IN ANISOTROPIC MEDIUM - ANTENNA THEORY
NASA-CR-55102 N64-12396 03-08

MULTILOBE DIRECTIVITY PATTERN IN SURFACE-WAVE ANTENNA BY MODULATION OF IMPEDANCE PLANE N64-12744 04-08

RADIATION PATTERNS OF HIGH FREQUENCY & VERY HIGH FREQUENCY ANTENNA SYSTEMS
NASA-TM-X-940 N64-13053 04-08

PROPERTIES OF PLASMA FLOW AROUND REENTRY VEHICLE BY MEASURING ADMITTANCE OF ANTENNA RADIATING IN PRESENCE OF PLASMA
NASA-CR-55141 N64-13191 04-08

WIDEBEAM VERY HIGH FREQUENCY ANTENNAS OF SATELLITE CONTROL FACILITY AS LOST VEHICLE ACQUISITION AID
SSD-TDR-63-237 N64-13651 05-10

REAL-TIME COMPUTER PROGRAM FOR CDC 160-A COMPUTER TO CONTROL TELEMETRY ANTENNA
REPT.-626-3 N64-14015 05-08

RADIATION FROM DIRECTIVE ANTENNA EMBEDDED IN AN ANISOTROPIC HALF SPACE
PIBMRI-1183-63 N64-14483 06-09

MULTIPLE BEAM INTERVAL SCANNER ANTENNA SYSTEM FOR WIDE ANGLE SCANNING IN ONE PLANE
AFCRL-63-535 N64-14664 06-09

HYDRAULIC ANTENNA POSITIONING CONTROL SYSTEM - DESIGN, ANALYSIS, AND SIMULATION
SSD-TDR-63-194 N64-14666 06-10

NONLINEAR MOTION OF ELECTRON OSCILLATION WITH RADIAL VIBRATION AND EFFECT ON ION DISTRIBUTION IN VICINITY OF ANTENNA
NASA-CR-55334 N64-14900 06-08

ASYMMETRICALLY FED, DIELECTRIC COATED, PROLATE SPHEROIDAL ANTENNA
USCEC-82-204 N64-14991 06-09

UNFURLABLE DESIGNS AND TECHNIQUES FOR AUTOMATIC ERECTION OF ANTENNAS IN SPACE
TSC-63-ESL-21 N64-15079 07-09

DETAILS AND ANALYSIS OF ADVANCED ANTENNA DESIGNS
GER-11045 N64-15377 07-09

LOCATION AND MAINTENANCE OF ANTENNAS ON LUNAR SURFACE FOR DIRECT COMMUNICATION WITH EARTH N64-16179 08-09

BASIC GROUND STATION ANTENNA SURVEY
SSD-TDR-63-334, VOL. 5 N64-16587 08-09

ELECTROMAGNETISM AND ANTENNAS FOR SPACE COMMUNICATIONS N64-17195 09-23

TUNABLE ANTENNAS FOR MAXIMUM GAIN IN ENDFIRE DIRECTION OVER WIDE FREQUENCY RANGE
AFCRL-63-588 N64-17321 09-09

ATTITUDE STABILIZATION OF BEAM RADIATION MAKING USE OF STABILIZED REFLECTOR - ANTENNA
SSD-TDR-63-358 N64-17357 09-30

LOW FREQUENCY SPACE ANTENNAS
AFCRL-64-69 N64-17458 09-34

MINIMIZATION OF ANTENNA NOISE
AD-431496 N64-17474 09-09

ANTENNA COUPLING - FACTOR INTERFERENCE PREDICTION
ITR-7 N64-17895 10-08

POLARIZATION COUPLING CURVES OF ANTENNAS WITH FIXED INCIDENT WAVES
EDL-M593 N64-18184 10-09

SATELLITE COMMUNICATIONS - PROPAGATION, ANTENNA AND RECEIVER FACTORS, COMPUTER USE, AND GROUND STATION SITING
DRTE-1122 N64-18241 10-08

APPLICATION OF BACKFIRE PRINCIPLE TO ENDFIRE ANTENNAS FOR SHF, UHF, AND VHF BANDS
AFCRL-63-114 N64-18386 10-09

RADIATION PATTERNS FOR TELEMETRY ANTENNA SYSTEMS FOR BLACK BRANT II ROCKETS
ERB-659 N64-18469 10-09

MULTIPLE BEAM INTERVAL SCANNER /MUBIS/ STUDY TO MAINTAIN HIGH DATA RATE FOR LARGE REFLECTOR-TYPE ANTENNAS
AFCRL-64-192/II/ N64-19207 11-09

ANTENNA WITH NIOBIUM S-BAND WAVEGUIDE AND SILICON CARBIDE HEATING ELEMENTS
CAL-UB-1807-E-3 N64-19563 12-09

CHARACTERISTICS OF 16-FOOT DIAMETER ANTENNA SYSTEM FOR MEASUREMENT OF MILLIMETER WAVELENGTH EMISSIONS FROM COSMIC SOURCES
NASA-CR-53690 N64-19987 12-09

ADMITTANCE OF APERTURE ANTENNAS RADIATING INTO CONDUCTING OR DISSIPATIVE MEDIA
NASA-CR-53849 N64-19991 12-09

MATHEMATICAL ANALYSIS OF SURFACE WAVE ANTENNAS
SCI. REPT.-798312 N64-20147 13-30

COMMUNICATION SYSTEM - MEASUREMENTS OF ANTENNA COUPLING FACTORS
REPT. 04957-8-F N64-20355 13-08

ANTENNAS AND SIGNAL DETECTION IN SPACE COMMUNICATIONS
ESD-TDR-64-40 N64-20372 13-08

ERRORS IN PARABOLIC ANTENNAS USED IN RADIO TELESCOPES N64-20510 13-09

UHF AND VHF ANTENNA BEAM PATTERN STUDY
REPT.-5549-7-P N64-20571 13-09

GLIDE SLOPE ANTENNAS FOR AIRCRAFT LANDING SYSTEM FOR TURBOJET AND OTHER FAST AIRCRAFT
N64-20935 14-09

ANTENNA SYSTEMS DESIGN FOR MICROWAVE POWER TRANSMISSION N64-21016 14-09

DIRECTION FINDER SYSTEM USING INTEGRATED CIRCUITS AND ANTENNAS
REPT.-1566-9 N64-21333 14-09

FLAT PLATE REFLECTOR AND SUPPORT UNIT FOR LARGE-APERTURE ANTENNAS
FR-64-14-69 N64-21446 14-09

OPTIMIZATION OF ANTENNA SYSTEMS BY EXTENSION OF TEMPORAL INFORMATION THEORY TO SPACE-TIME DOMAIN
AD-600479 N64-21454 14-09

ANTENNAS FOR HIGH TEMPERATURE ENVIRONMENT
CAL-UB-1807-E-4 N64-21559 15-09

DESIGN OF ANTENNA WITH COMPOUND EXCITER
FTD-TT-62-1520/162 N64-21653 15-08

LAUNCHING SURFACE WAVES - THEORY AND APPLICATION OF ANTENNAS
AFCRL-63-63 N64-22302 15-08

RADIATION FIELD OF ARBITRARY ANTENNA IN MAGNETOPLASMA
NASA-CR-56291 N64-22477 15-08

COORDINATE SYSTEM AND DATA FORMAT FOR ANTENNA PATTERN
IRIG-102-61 N64-22527 15-08

SIMULATION OF PLASMA SHEATH USING ARTIFICIAL DIELECTRIC - APPLICATION TO ANTENNA GEOMETRY
SSD-TDR-64-90 N64-22561 15-24

ELECTRONIC DIGITAL COMPUTER USED IN REDUCTION OF ANTENNA PATTERN DATA N64-22822 16-09

GAUSSIAN CURVE DESCRIPTION OF MUTUAL GAIN PROPERTIES OF RADAR TRACKING ANTENNA
N64-22829 16-09

SPECTRUM SIGNATURE SYNTHESIS - SPURIOUS RESPONSES IN SINGLE & DOUBLE CONVERSION RECEIVERS & GAIN CHARACTERISITCS OF HIGH GAIN REFLECTOR ANTENNAS
N64-22838 16-09

CONTROL OF ANTENNA RADIATION PATTERN BY INTEGRATED ANTENNA CIRCUIT DESIGN
REPT.-1566-10 N64-22955 16-09

OPTIMUM PERFORMANCE OF X-Y ANTENNA MOUNT FOR SATELLITE TRACKING AND DATA ACQUISITION
NASA-TN-D-1697 N64-23341 16-09

FUNDAMENTAL PRINCIPLE IN PLANAR ANTENNA THEORY
AFCRL-64-331 N64-23402 16-09

INFLATABLE SPACE ANTENNA SYSTEM
N64-23729 16-09

EQUATION OF THIN CYLINDRICAL ANTENNA IN PLASMA WITH ALLOWANCE FOR SPATIAL DISPERSION
N64-23790 16-09

PRECISION MEASUREMENTS OF INTENSITY OF RADIO EMISSION AND PARAMETER OF ANTENNAS USING STANDARD RADIO EMISSION FROM DISK COATED WITH ABSORBING MATERIAL N64-23804 16-05

ANTENNAS & ELECTRODYNAMICS
FTD-TT-62-1826 N64-23876 16-09

ANTENNA STRUCTURAL DEFLECTIONS CAUSED BY DEAD LOAD AND THERMAL INPUTS
NASA-CR-56282 N64-24029 16-09

OPTIMIZATION OF ANTENNA SYSTEM FOR MEASUREMENT OF RADAR REFLECTION PROPERTIES N64-24291 17-09

RADAR SCATTERING PROPERTIES OF ANTENNAS
N64-24316 17-09

RESPONSE FUNCTIONS OF TAYLOR ANTENNA DISTRIBUTIONS
AFCRL-63-368 N64-24813 17-09

HANDBOOK FOR RELIABLE OPERATION OF ANTENNAS, RECEIVERS AND TAPE RECORDERS
EDL-G169 N64-24914 17-09

DISCONTINUITIES OF LONG TRANSMISSION LINES IN ANTENNA RADIATION PATTERN
RADC-TDR-64-121 N64-25233 17-09

INTEGRATION OF NONLINEAR UNIDIRECTIONAL DEVICES AS ANTENNA CONTROL ELEMENTS
IER-1 N64-25325 17-09

CONTROL SYSTEM FOR MULTIPLATE ANTENNA
AFCRL-64-255 N64-25597 17-09

ANTENNA DESIGN - ANTENNAS FOR TELEMETRY, COMMAND CONTROL, AND BEACON TRANSPONDER SYSTEMS
AFCRL-63-594 N64-25723 17-09

MULTIPLATE ANTENNA FEED SYSTEM FOR RADAR AND RADIO ASTRONOMY APPLICATIONS
EB-5297-0460 N64-26179 18-09

APPLICATION OF TUNNEL DIODES TO ANTENNA SYSTEMS
RADC-TDR-64-216 N64-26193 18-09

ADVANCED ANTENNA TECHNIQUES FOR AEROSPACE VEHICLE DOPPLER VELOCITY SENSORS
AL-TDR-64-163 N64-26219 18-09

CENTRIFUGAL FORCE EXTENSION OF TELESCOPING ANTENNAS ON HIGH SPIN RATE ROCKETS
AFCRL-64-430 N64-26222 18-09

INPUT ADMITTANCE OF THIN BARE CIRCULAR LOOP ANTENNAS
NR-371-016 N64-26505 18-09

WIND TUNNEL STUDIES OF ANTENNA BREAKDOWN - FORCED CONVECTION EFFECT
MIT-AL-TR-92 N64-26922 18-09

ANTENNAS AT NASA SATELLITE TRACKING AND SPACE DATA

ACQUISITION NETWORK /STADAN/ FACILITIES
NASA-TM-X-55031 N64-27259 19-08

ANTENNA TEST TRANSMITTERS
NASA-CR-56938 N64-27299 19-08

SUPERSONIC WIND TUNNEL TESTING OF ANTENNAS
N64-27333 19-08

SCATTERING PROPERTIES OF PARABOLOIDAL REFLECTOR, HORN, AND STUB ANTENNAS
REPT.-1223-12 N64-27528 19-08

RECEIVING AND TRANSMITTING PROPERTIES OF SMALL LINEAR ANTENNAS, CONICAL ANTENNAS, AND LOOPS FOR TRANSIENT ELECTROMAGNETIC FIELDS
TR-434 N64-27656 19-08

COMMUNICATIONS, RADAR, AND RADIO ASTRONOMY STUDY USING HAYSTACK ANTENNA SYSTEM
ESD-TDR-63-580 N64-27684 19-08

LOG PERIODIC AND CONTINUOUSLY SCALED ANTENNAS
TR-76 N64-27852 19-08

RADIATION PATTERN AND DRIVE POINT IMPEDANCE OF TRAVELING WAVE ANTENNA FOR RADIO ASTRONOMY
NASA-CR-56937 N64-27882 20-08

PARABOLIC REFLECTOR WITH COSINE PRIMARY FEED
WRE-TN-EID-62 N64-28719 20-23

FLUSH SURFACE-MOUNTED ANTENNAS WITH SPECIFIED RADIATION FIELDS FOR SPACE VEHICLES
NASA-CR-58345 N64-28737 20-08

ANTENNA HEIGHT DIVERSITY FOR IONOSPHERIC SCATTERING COMMUNICATION SYSTEM
TM-92 N64-28823 20-08

HIGH ALTITUDE ANTENNA VOLTAGE BREAKDOWN DURING RADIATION OF MULTIPLE SIGNALS - MULTIFREQUENCY BREAKDOWN
NASA-CR-58309 N64-29190 21-08

PERFORMANCE CHARACTERISTICS OF WIDE FLARE ANTENNA FEED SYSTEM
AFCRL-64-347 N64-29243 21-08

SCALE MODEL TEST PROGRAM FOR HAYSTACK PROJECT ANTENNA
N64-29267 21-33

SELF-TUNING ANTENNA TO PREVENT SIGNAL LOSS DUE TO SEVERE ENVIRONMENT DURING MISSILE FLIGHT
RG-TR-64-9 N64-29302 21-08

DISTRIBUTION OF CURRENT AND ADMITTANCE OF CYLINDRICAL ANTENNA CONSTRUCTED OF IMPERFECT CONDUCTORS
TR-440 N64-29430 21-08

ANTENNA WINDOW - TECHNIQUE FOR RADIO PROPAGATION THROUGH PLASMA SHEATH
BSR-985 N64-29761 21-08

SIMPLIFIED VARIABLE POLARIZATION ANTENNA
USAEL-TR-2423 N64-29829 21-08

INTEGRATION OF ACTIVE ELEMENTS INTO ANTENNAS AND ANTENNA STRUCTURES
REPT.-1566-11 N64-30485 22-08

DESIGN PARAMETERS AND EQUATIONS FOR MULTIPLE PLATE ANTENNA SYSTEM
AFCRL-63-585 N64-30514 22-08

DRIVING-POINT IMPEDANCE OF ELECTRICALLY SHORT CYLINDRICAL ANTENNA IN IONOSPHERE - SATELLITE RADIO COMMUNICATION SYSTEMS
TR-EE-109 N64-30734 22-08

MULTIPLEX ANTENNA SYSTEM FOR SIMULTANEOUS MEASUREMENTS OF NOSE-ON RADAR CROSS SECTION OF HYPERSONIC PROJECTILE
CTN64-01 N64-31126 22-08

PROBABILITY OF DETECTING SIGNALS FROM MISSILE BY RECONNAISSANCE SATELLITE AS FUNCTION OF RECEIVER SENSITIVITY, ANTENNA POLARIZATION, AND MISSILE ORIENTATION
EDL-M403 N64-31155 22-08

EFFECT OF DIELECTRIC BODY PLACED NEAR DIPOLE ANTENNA ON HORIZONTAL PATTERN OF ANTENNA
DRI-2118 N64-31240 22-08

ANTENNA PATTERN DISTORTION PRODUCED BY LAYER OF PLASMA
AFCRL-64-511 N64-31682 23-08

ELECTROMAGNETIC FIELDS IN FOCAL REGION OF PARABOLIC RECEIVING ANTENNA
REPT.-1223-16 N64-31687 23-08

RADIATION FIELDS ASSOCIATED WITH ANTENNAS FOR SHORT WAVE RADIO TRANSMISSION IN LAND-SEA AREAS
S75-R37 N64-32109 23-08

SLEDBORNE MULTICOUPLER DESIGN COMBINING SIX TRANSMITTERS TO ONE ANTENNA FOR USE IN VERY HIGH FREQUENCY RANGE
ARI-PUBL.-185 N64-32394 23-08

SOLAR RADIO EMISSION FOR ANTENNA ALIGNMENT AND COMPUTER PROGRAM FOR SOLAR TRACKING ANGLES
EDL-M690 N64-32561 23-08

APPARATUS FOR SIGNAL RECEPTION AT DISTANT ANTENNAS TO DETERMINE ARRIVAL DIRECTION OF ELECTROMAGNETIC WAVES N64-32900 24-09

POINTING EQUATIONS FOR DIRECTING SLAVE ANTENNA TO RADAR COORDINATES DETERMINED BY MASTER ANTENNA
TM-3646 N64-32934 24-08

POWER HANDLING CAPABILITY AND BREAKDOWN POWER LEVEL OF TYPICAL LINEAR AND CIRCULARLY POLARIZED ANTENNAS IN SIMULATED MARS AND VENUS ATMOSPHERES
NASA-CR-59111 N64-33094 24-08

HIGH JUNCTION CAPACITANCE AND LOW DIODE RESISTANCE REQUIREMENTS FOR PHASED ARRAY ANTENNA
FR-63-14-231 N64-33445 24-09

SATELLITE SYSTEM FOR RADIO ASTRONOMICAL MEASUREMENTS AND ANTENNA ANALYSIS AT LOW FREQUENCIES
NASA-TM-X-55089 N64-33563 24-32

VERTICAL RADIO FREQUENCY TEST RANGE FOR ANTENNA RADIATION MEASUREMENT
NASA-TM-X-55094 N64-33566 24-08

AMPLIFIER PUMP SOURCE UNIT OF ANTENNA SYSTEM FOR SATELLITE COMMUNICATIONS TRANSPORTABLE GROUND TERMINAL
SYN-52-07-01, VOL. 2 N64-33641 24-08

ANTENNA PATTERN DISTORTION DUE TO RADOME METAL FRAME - BEAM DISTORTION BY CONDUCTING CYLINDER IN APERATURE OF GROUND SEARCH ANTENNA
REPT.-1751-1 N64-33765 24-08

AIRBORNE ANTENNAS FOR COMBAT SURVEILLANCE - PARTIALLY DIELECTRIC LOADED TROUGH WAVEGUIDE WITH ARRAY OF SLOTS IN ONE SIDE WALL
AD-445798 N64-33767 24-08

USE OF SFERICS AS SIGNAL SOURCE IN MEASUREMENT OF VERY LOW FREQUENCY ANTENNA PATTERNS
NOLC-581 N64-33796 24-08

ANTENNA ARRAY
LONG-DISTANCE VERY HIGH FREQUENCY TRANSMITTING AND RECEIVING COMMUNICATION GROUND ANTENNA ARRAY
N64-10260 01-09

TWO-DIMENSIONAL, SELF-FOCUSING, STEERABLE ANTENNA ARRAY
RADC-TDR-63-418 N64-12586 04-08

LINEAR DATA-PROCESSING ANTENNA ARRAYS USING WIDE-BAND ELEMENTS AND MATCHED FILTER
RADC-TDR-63-437 N64-12589 04-08

PHASE ERRORS OF HAYSTACK ANTENNA RADIATION PATTERNS DUE TO SURFACE DEVIATIONS
AD-418470 N64-14091 05-08

VARIOUS TYPES OF ANTENNAS ON DIFFERENT GEOMETRIC STRUCTURES AND RADIATION PATTERNS IN DIFFERENT ENVIRONMENTS
TECH. REPT. 81 N64-14771 06-09

LINE SOURCE ANTENNA ARRAYS FOR CONTROL OF PATTERN, DISPERSION, AND PHASE OF BEAMS
AFCRL-63-182 N64-15519 07-09

ADVANCED SYNCOM SATELLITE COMMUNICATION ANTENNA ARRAY N64-16157 08-08

RESOLUTION OF LINEAR ANTENNA ARRAY
AFCRL-63-539 N64-17126 09-09

MECHANICAL DESIGN OF SATELLITE COMMAND SYSTEM ANTENNA ARRAYS
NASA-CR-55806 N64-18108 10-06

PLANE PHASED ANTENNA ARRAYS - PATTERN DISTRIBUTION
RM-3963-ARPA N64-19560 12-09

RELATIONSHIP BETWEEN ERROR IN CURRENT DISTRIBUTION AND DISPLACEMENT OF MAIN BEAM OF RADIATION PATTERN FOR ANTENNA SYSTEMS
FTD-TT-63-1079/1&2 N64-19753 12-09

RADIATION PATTERNS AND CURRENT DISTRIBUTIONS COMPARED WITH COMPUTED RESULTS FOR SINGLE AND ARRAY ANTENNAS
TECH. REPT.-383 N64-19948 12-09

SCALE MODEL OF MICROWAVE BROADBAND ANTENNA - CIRCULAR ARRAY
TN-2 N64-19949 12-08

RADIO ANTENNA ARRAY FOR SATELLITE COMMUNICATION AND CONTROL - COMMAND SYSTEM
NASA-CR-55807 N64-19978 12-09

CURRENT AND FIELD DISTRIBUTION ON PLANAR AND CURVED SLOT ARRAYS - YAGI ANTENNA FOLDED BACK FORMING CIRCULAR SLOT ARRAY
TECH. REPT.-427 N64-20022 13-09

TWO-DIMENSIONAL SELF-FOCUSING ANTENNA ARRAY MODEL AND SCATTERING FROM METAL SPHERES
RADC-TDR-64-40 N64-20027 13-09

DIELECTRIC ELEMENTS FOR SATELLITE COMMUNICATIONS ANTENNA ARRAYS AND FEED SYSTEMS
AD-429052 N64-20402 13-09

NEW RADAR EQUIPMENT - TRACKING RADAR, LINEAR PHASED ANTENNA ARRAYS, SCANNING DEVICE, LASERS, AND THREE-DIMENSIONAL RADAR
JPRS-24841 N64-21044 14-08

HIGH GAIN ANTENNA ARRAY FOR COHERENT TRANSMISSION AT ULTRAHIGH FREQUENCIES
REPT.-1072-7 N64-21074 14-09

SYNTHESIS OF RADIATION PATTERNS OF LINEAR ANTENNA ARRAYS
FTD-TT-62-1141/1&2&3&4 N64-22151 15-09

MAXIMIZING SIGNAL-TO-NOISE RATIO OF LINEAR RECEIVING ANTENNA ARRAY
TR-65 N64-22287 15-08

FOURIER COEFFICIENTS FOR CHEBYSHEV POLYNOMIALS FOR ANTENNA ARRAY DESIGN
AFCRL-62-726 N64-22304 15-20

ERROR ANALYSIS OF PHASED ANTENNA ARRAY DIRECTION FINDERS
EDL-E79 N64-22905 16-08

DYNAMIC PROGRAMMING FOR LINEAR AND PLANAR ANTENNA ARRAYS
AD-601663 N64-23952 16-09

WIDEBAND, HIGH GAIN, VARIABLE TIME DELAY ANTENNAS
RADC-TDR-64-218 N64-25240 17-08

COST ANALYSIS OF MULTI-PLATE ANTENNA ARRAYS
RAC-2135 N64-25404 17-08

THINNING & BROADBANDING ANTENNA ARRAYS BY UNEQUAL SPACINGS
AFCRL-64-253 N64-26185 18-08

EVALUATION OF FERRITE MATERIALS FOR ELECTRONICALLY STEERABLE ANTENNA ARRAY
RADC-TDR-64-15 N64-26231 18-08

GENERALIZED THEORY OF RESOLUTION FOR ANTENNA ARRAYS
AFCRL-64-421 N64-26244 18-08

ELECTRO-OPTICAL SIGNAL PROCESSING TECHNIQUES FOR PHASED ARRAY ANTENNAS
CU-35-64-AF-1113-ERL N64-26319 18-08

BEVERAGE ANTENNA PERFORMANCE AS FUNCTION OF ELEVATION ANGLE, FREQUENCY, ARRAY RADII, AND GROUND CONSTANTS
REPT.-3 N64-27525 19-08

DESIGN AND TESTING OF PROTOTYPE COMPONENTS OF PHASE SHIFT MODULES IN ANTENNA ARRAY
FR-64-14-82 N64-27688 19-08

ARRAYS OF PARALLEL THIN WIRES USED TO APPROXIMATE SCATTERING PATTERNS OF SOLID CURVED AND FLAT SURFACES
REPT.-1522-7 N64-28147 20-08

RADIATION CHARACTERISTICS OF PLANAR BROADSIDE ARRAY OF DIRECTIVE ELEMENTS
NASA-CR-58355 N64-28756 20-08

PROBABILITY DISTRIBUTION OF ANTENNA GAIN FOR SATELLITES WITH SWITCHED ANTENNA SYSTEMS
ESD-TDR-64-28 N64-29609 21-08

SIDELOBE REDUCTION AND GAIN CHARACTERISTICS OF PARTIALLY UNIFORM ANTENNA ARRAYS
RADC-TDR-64-243 N64-29817 21-08

LIGHTWEIGHT PORTABLE LOG PERIODIC ANTENNA SYSTEM
RADC-TDR-64-178 N64-29824 21-08

BEYOND-LINE-OF-SIGHT TRANSMISSION USING AUTOMATIC BEAM-STEERING ARRAY TECHNIQUES
REPT.-2900-491-T N64-30588 22-08

DIRECTIVE VERY LOW FREQUENCY ANTENNAS FOR RECEPTION OF TRANSPOLAR SFERICS
AFCRL-63-371 N64-31636 23-08

ANTENNA ARRAYS AND RADIO INTERFERENCE REDUCTION
REPT.-1522-3 N64-31688 23-08

DOLPH-CHEBYSHEV BROADSIDE ARRAYS OF MANY ELEMENTS AND ARBITRARY UNIFORM SPACING
AFCRL-64-344 N64-31803 23-08

IBM 7090 DIGITAL COMPUTER SIMULATION OF RADIATION PATTERNS OF ULTRAHIGH FREQUENCY ANTENNA ARRAYS ABOVE FINITELY-CONDUCTING PLANE SURFACES
GE/EE/63-16 N64-32100 23-08

RADIATION CHARACTERISTICS OF LOG PERIODIC DIPOLE ARRAY
EDL-M720 N64-32552 23-08

ELEMENT SPACINGS IN NONUNIFORMLY SPACED ANTENNA ARRAYS - MAXIMUM POWER GAIN DETERMINATION
AFCRL-64-728 N64-32628 23-08

DERIVATION OF EQUATION FOR FAR FIELD RADIATION PATTERN OF CIRCULAR ANTENNA ARRAY
NASA-TN-D-2105 N64-32835 24-08

MUTUAL COUPLING BETWEEN ELEMENTS OF WIDE APERTURE RADIO LOCATION ANTENNA ARRAY
RRL-246 N64-33234 24-08

SIGNAL PROCESSING TECHNIQUES USING OPTICAL AND ULTRASONIC DEVICES FOR PHASED ARRAY ANTENNAS
CU-40-64-AF-1113-ERL N64-33590 24-08

ELECTRO-OPTICAL SIGNAL PROCESSOR FOR PHASED ARRAY ANTENNAS
CU-29-63-ANC-74/R/-ERL N64-33723 24-08

ANTENNA FIELD
SYNTHESIZING APERTURE DISTRIBUTION FOR SPECIFIED FAR-FIELD POLAR DIAGRAM
NTS-9 N64-12859 04-08

EQUIPMENT FOR ANTENNA PATTERN AND SPECTRUM MEASUREMENTS OF RADIATING WEAPON SYSTEMS - OPERATION CENTRAL AN/MSQ-16
RADC-TDR-63-403 N64-13783 05-08

MODIFICATION OF VERTICAL ANTENNA FIELD BY SECTOR GROUND SCREEN - NUMERICAL ANALYSIS
NBS-MONOGRAPH-60 N64-14132 05-08

HIGH RESOLUTION BISTATIC RADAR TO RESOLVE ANTENNA FIELD PATTERN AMBIGUITIES
NASA-CR-56099 N64-20686 13-09

STRONG VERTICALLY POLARIZED HIGH IMPEDANCE FIELDS OF DRIVEN VERTICAL MONOPOLE ANTENNAS N64-22849 16-09

DIFFRACTION OF FIELD OF RADIATING SURFACE ANTENNA EXCITED BY ELEMENTARY ELECTRIC DIPOLE BY SOLIDS OF REVOLUTION N64-23792 16-08

EFFECTS OF REDUCTION OF ANTENNA-TO-TARGET DISTANCE N64-24714 17-08

FLUSH SURFACE-MOUNTED ANTENNAS WITH SPECIFIED RADIATION FIELDS FOR SPACE VEHICLES
NASA-CR-58345 N64-28737 20-08

LOOP ANTENNA RADIATION FIELDS N64-33580 24-08

ANTHRACENE
DIRECTIONAL DEPENDENCE OF SELF-DIFFUSION COEFFICIENT FOR ANTHRACENE SINGLE CRYSTALS
82130-T-2 N64-14705 06-25

CHAIN TRANSFER EXPLANATION OF ANIONIC POLYMER FORMATION OF 9-VINYLANTHRACENE - POLYMER CHEMISTRY
NASA-CR-53570 N64-18449 10-07

ANTHROPOMETRY
S HUMAN ENGINEERING

ANTIAIRCRAFT MISSILE
ANTIAIRCRAFT ARTILLERY SHELLS TO DESTROY MODERN AIRCRAFT - DELAY AND PROXIMITY FUSES
FTD-TT-64-166/1&2 N64-31106 22-10

ANTIBIOTICS
SA TETRACYCLINE
ANTIBIOTIC THERAPY OF RADIATION SICKNESS IN MICE - STREPTOMYCIN EFFECTIVENESS, TREATMENT TIMING, HINDERING FACTORS, AND DETOXICATING MIXTURE
JPRS-22625 N64-13161 04-16

ANTIBODY
SA GAMMA GLOBULIN
CF ANTIGEN
IMMUNOLOGICAL REMOVAL OF IODINE-131 LABELED RABBIT ANTIBODY TO RAT FIBRINOGEN IN NORMAL AND TUMOR-BEARING RATS
UR-634 N64-10190 01-16

SIGNIFICANCE OF PLASMA CELLS IN PRODUCTION OF ANTIBODIES DURING IONIZING RADIATION
JPRS-18020 N64-11023 02-16

ISOLATION OF ANTIBODIES FROM AGGLUTINATING ANTI-PLAGUE & ANTICHOLERA SERUM, AND PURIFICATION, USING NEW LUMINESCENT STAIN
JPRS-19936 N64-11220 02-16

CONDITIONS OF COMPLETE INHIBITION OF ANTIBODY PRODUCTION IN MONKEYS AFTER GAMMA IRRADIATION IN LARGE DOSES
JPRS-22121 N64-11274 02-16

METHOD FOR DETECTING WEAK ANTIBODIES - INCREASED SENSITIVITY N64-12771 04-16

MUTATION-CLONE THEORY OF BURNET ANTIBODY FORMATION N64-23455 16-16

ANTIBODIES TO HUMAN A1 HEMOGLOBIN AND THEIR REACTION WITH CERTAIN OTHER HEMOGLOBINS N64-25491 17-16

GAMMA GLOBULIN AND IONIZING RADIATION EFFECTS ON ANTIBODY PRODUCTION IN IRRADIATED & NONIRRADIATED TISSUE
JPRS-26956 N64-32750 24-16

ANTICYCLONE
CF CYCLONE
CF METEOROLOGY
DERIVATIONS FOR SUBTROPICAL ANTICYCLONE MOTION, PSEUDO-GEOSTROPHIC RELATIVE MAGNITUDE, ABSOLUTE VORTICITY, AND CORIOLIS EQUATIONS
JPRS-18011 N64-10736 02-12

WARM TEMPERATURES AND HIGH GEOPOTENTIAL HEIGHTS - STUDY OF ALEUTIAN ANTICYCLONE ASYMMETRY OF POLAR-NIGHT WESTERLIES N64-10985 02-21

ANOMALOUS SHORT PERIOD OSCILLATIONS OF CYCLONIC AND ANTICYCLONIC ACTIVITY N64-19433 12-21

CONTRIBUTION OF VERTICAL MOVEMENTS TO DEVELOPMENT OF CYCLONES AND ANTICYCLONES N64-27941 20-21

ANTIFERROMAGNETISM
CF FERROMAGNETISM
CF HYSTERESIS
MICROSTRUCTURE OF INTERNAL MAGNETIC FIELD IN FERRO-, FERRI-, AND ANTIFERROMAGNETIC SOLIDS
ML-TDR-64-58 N64-25592 17-23

ANTIFERROMAGNETISM OF FERROUS CHLORIDE TETRAHYDRATE
TR-21 N64-25831 17-19

FERROMAGNETIC AND ANTIFERROMAGNETIC MATERIALS NEAR CURIE POINT N64-29059 21-23

LOWER BOUND FOR FREE ENERGY OF ANTIFERROMAGNETIC HEISENBERG LINEAR CHAIN
TR-20 N64-29635 21-23

HEAT CAPACITY OF ANTIFERROMAGNETIC COBALT CHLORIDE HYDRATE NEAR NEEL TEMPERATURE
TR-22 N64-30197 21-25

FLUCTUATIONS IN ANTIFERROMAGNETIC RESONANCE LINEWIDTH OF MANGANESE AND NICKEL FLUORIDES NEAR TRANSITION TEMPERATURE
TR-302 N64-32088 23-25

STATISTICAL MECHANICS AND PHASE TRANSITIONS OF HEISENBERG ANTIFERROMAGNET
TR-15 N64-32850 24-25

NONLINEARITY OF MAGNETIC SUSCEPTIBILITY IN WEAK FERROMAGNETS AND ANTIFERROMAGNETS
TR-7 N64-33338 24-25

SPIN-WAVE CALCULATIONS OF SPIN-FLOP PHASE IN UNIAXIAL ANTIFERROMAGNET
AD-435887 N64-33658 24-25

ANTIGEN
SA GAMMA GLOBULIN
CF ANTIBODY
SYNTHESIS OF ANTIGENS CONTAINING KNOWN SUGARS
AD-430401 N64-16098 07-16

AUTORADIOGRAPHIC AND HISTOLOGIC STUDY OF SPLEEN WHITE PULP GERMINAL CENTERS OF NORMAL AND ANTIGENICALLY STIMULATED ANIMALS
ORNL-3595 N64-20636 13-16

RADIATION SICKNESS - PROTECTIVE EFFECT OF BACTERIAL ANTIGENS, ACCUMULATION OF IODINE 131, & REGENERATION OF SCIATIC NERVE
JPRS-24704 N64-20827 14-16

SPLEEN, LYMPH NODES, AND LOOSE CONNECTING TISSUE REACTIONS TO ANTIGENIC STIMULI IN IRRADIATED ANIMALS N64-30244 22-16

ANTIHISTIMIC
EFFECTIVENESS OF ANTIHISTAMINES IN ANESTHESIOLOGY
JPRS-22098 N64-11432 02-16

ANTIMISSILE MISSILE
METHODS OF ANTIMISSILE DEFENSE
JPRS-20101 N64-10661 01-04

ANTIMISSILE MISSILE - INTERCEPTION AND DESTRUCTION
FTD-TT-63-337/1&2&3&4 N64-21946 15-30

ANTIMONIDE
S INDIUM ANTIMONIDE
GROWTH OF MIXED CRYSTALS OF GALLIUM ANTIMONIDE & GALLIUM INDIUM ANTIMONIDE FOR DIODES
N64-13752 05-25

PHOTOCONDUCTIVITY OF GALLIUM ANTIMONIDE
AD-600178 N64-25952 18-23

ANTIMONY
ROLE OF ANTIMONY DURING EXTRACTION OF FINE BISMUTH FROM LEAD
N64-31413 23-07

THERMODYNAMIC PROPERTIES OF SOLID SOLUTIONS OF SELENIDES & TELLURIDES OF BISMUTH & ANTIMONY AND COMPOUNDS OF MAGNESIUM & INDIUM
AFCRL-64-623 N64-32301 23-07

ANTIMONY ALLOY
DIFFUSION OF SILVER IN POLYCRYSTALLINE COPPER AND COPPER-ANTIMONY ALLOY
N64-17039 09-25

METASTABLE EXTENSION OF SOLUBILITY LIMIT IN SILVER-BASE BINARY ALLOYS OF TIN, ANTIMONY, AND SILICON
TR-14 N64-31289 22-18

ANTIMONY COMPOUND
PHASE RELATIONS AND ELECTRICAL & THERMAL PROPERTIES IN TIN-TELLURIUM-ANTIMONY AND TIN-TELLURIUM-BISMUTH PSEUDOBINARY SYSTEMS
DMS MASTER*S 63-2 N64-13395 04-19

CHEMICAL REACTIONS OF ORGANIC BORANE AND MERCURY ANTIMONY COMPOUNDS WITH BENZENE
N64-20926 14-08

SYNTHESIS OF CRYSTALLINE SOLIDS BY VARYING PROPORTIONS OF ANTIMONY PENTAFLUORIDE AND XENON HEXAFLUORIDE
TR-49 N64-29346 21-07

ANTIOXIDANT
CF ADDITIVE
DETERMINATION OF ANTIOXIDANT EFFECTIVENESS OF MOTOR OIL ADDITIVES
FTD-TT-62-1324/1&2&4 N64-10249 01-17

RADIOSENSITIVITY OF ORGANISMS TO IONIZING RADIATION - PROTECTION BY VEGETABLE PIGMENTS IN PLANT CELLS & ANTIOXIDANTS IN ANIMAL ORGANISMS
JPRS-19363 N64-11069 02-16

PROTECTIVE AND THERAPEUTIC ANTIRADIATION & ANTI-OXIDATION PROPERTIES OF VARIOUS POLYPHENOL STRUCTURES - CHEMOTHERAPY
JPRS-23567 N64-16543 08-16

ANTISUBMARINE WARFARE
DESIGN AND FABRICATION OF PLASTICS CHARGE CASE FOR PROJECTOR CHARGE ANTISUBMARINE WEAPON
NOLTR-63-148 N64-12656 04-01

ANTITANK MISSILE
SAMPLED DATA CONTROL APPLIED TO ANTITANK MISSILE
RG-TR-63-21 N64-12655 04-01

NONLINEAR CONTROL SYSTEM FOR DIRECTION-CONTROLLED ANTITANK MISSILES
RG-TR-64-2 N64-26828 18-06

ANVIL
EXTERNAL AND INTERNAL PRESSURES OF CIRCULAR CYLINDER COMPOSED OF FOUR ANVILS
Y-1449 N64-11792 03-23

AOSO
SPACECRAFT AND SUBSYSTEMS DESIGN FOR ADVANCED ORBITING SOLAR OBSERVATORY /AOSO/
AIAA PAPER-64-333 N64-24903 17-32

APERIODIC FUNCTION
TYPES OF APERIODIC FUNCTION GENERATORS
N64-16241 08-15

APERTURE
NUMERICAL ANALYSIS OF APERTURE-SYNTHESIS METHOD OF MEASURING MULTIPATH FIELD COMPONENTS
NBS-8275 N64-22377 15-08

NONLINEAR APERTURE CORRECTION - DISTRIBUTION OF SIGNALS
FTD-TT-62-1726/1&2 N64-23408 16-23

DIFFRACTION OF ELECTROMAGNETIC WAVES BY CIRCULAR APERTURE IN INFINITELY CONDUCTING PLANE SCREEN
EM-195 N64-26695 18-08

QUADRUPOLE LENSES WITH LARGE ELLIPTICAL APERTURES FOR HIGH INTENSITY PARTICLE BEAMS FROM ACCELERATORS
CERN-64-34 N64-28656 20-23

THEORY OF FOCUSED SYNTHETIC-APERTURE MAPPING RADAR SYSTEM
SSD-TDR-64-125 N64-29582 21-08

EMISSIVITY OF CIRCULAR-APERTURE BLACK BODY RADIATION SOURCE
RR-63-3 N64-29716 21-23

MUTUAL COUPLING BETWEEN ELEMENTS OF WIDE APERTURE RADIO LOCATION ANTENNA ARRAY
RRL-246 N64-33234 24-08

FULL-APERTURE PARABOLOID LUNAR AND PLANETARY TELESCOPE
NASA-CR-59164 N64-33678 24-15

APOLLO PROJECT
SA LUNAR LAUNCH
EARTH PARKING ORBITS AND FREE RETURN CIRCUMLUNAR TRAJECTORIES FROM LAUNCH WINDOWS WITH FIXED AZIMUTHS - APOLLO PROJECT
AIAA PAPER-63-406 N64-11501 03-29

ENTRY RANGE AND LANDING LIGHTING RESTRICTIONS ON RETURN TRAJECTORIES FROM MOON FOR APOLLO-TYPE MISSION
NASA-TN-D-2127 N64-12689 04-29

LUNAR LOGISTIC SCIENTIFIC FACILITY FOR APOLLO PROJECT MISSIONS
N64-13136 04-29

LUNAR EXPLORATION BASE FOR APOLLO PROJECT
NASA-CR-39 N64-15969 07-29

PAYLOAD DESIGN FOR APOLLO PROJECT LUNAR SURFACE VEHICLE
N64-16175 08-10

APOLLO PROJECT LUNAR EXPLORATION COMMUNICATIONS AND TRACKING
N64-16176 08-08

BREAKDOWN AND TOXIC PROPERTIES OF MATERIALS USED IN SPACE VEHICLES OF APOLLO, MERCURY, GEMINI, AND DYNA-SOAR PROJECTS
AMRL-TDR-63-99 N64-17327 09-19

SPACE RADIATION - VAN ALLEN BELT, GALACTIC COSMIC RADIATION, SOLAR WIND & FLARES, AND PHOTON RADIATION WITH REGARD TO APOLLO PROJECT
NASA-TM-X-54700 N64-17610 09-28

LUNAR EXPLORATION SYSTEMS FOR APOLLO
NASA-CR-35 N64-17721 09-29

REENTRY HEATING EXPERIMENT TO BE FLOWN BY SCOUT LAUNCH VEHICLE TO TEST ABLATING MATERIALS FOR USE IN APOLLO PROJECT FLIGHT
N64-27657 19-02

SATURN I /SA-7/ LAUNCH IN APOLLO PROJECT
NASA RELEASE-64-228 N64-29335 21-30

APOLLO PROJECT - PROGRESS AND NATIONAL BENEFITS
N64-30335 22-32

APOLLO PORTABLE LIFE SUPPORT SYSTEM
N64-30725 22-18

NAVIGATION SYSTEM BASED ON CELESTIAL BODY TRACKER

FOR LUNAR MOBILE LABORATORY /MOLAB/ OF APOLLO LOGISTICS SUPPORT SYSTEMS
NASA-CR-61013 N64-31717 23-22

APOLLO LOGISTICS SUPPORT SYSTEMS MOBILE LABORATORY STUDIES - GROUND WAVE PROPAGATION ON LUNAR SURFACE
NASA-CR-61014 N64-31718 23-08

APOLLO AND GEMINI MISSION SIMULATION AND ANALYSIS PLANS N64-32351 23-10

OBJECTIVES OF NASA PROGRAM AND APOLLO PROJECT CONTRIBUTION - DEDICATION SPEECH N64-33072 24-10

APOLLO LOGISTICS SUPPORT SYSTEM - TELEMETRY EQUIPMENT AND TECHNIQUES FOR LUNAR MOBILE LABORATORY
NASA-CR-61018 N64-33867 24-08

APOLLO PROJECT LUNAR LOGISTICS MOBILE LABORATORY
NASA-CR-61016 N64-33876 24-10

APOLLO LOGISTICS SUPPORT SYSTEM - MOLAB STUDIES - COMPARISON BETWEEN OPTIMUM ANTENNA GAIN AND TRANSMITTER POWER FOR LOW MASS SYSTEM
NASA-CR-61010 N64-33880 24-08

APOLLO SPACECRAFT
APOLLO SPACECRAFT GUIDANCE COMPUTER N64-16174 08-22

APOLLO SPACECRAFT TELECOMMUNICATIONS SYSTEM N64-16177 08-08

EARTH-MOON TRANSIT TRAJECTORY FOR APOLLO AND SUPPORT VEHICLE FLIGHTS
NASA-TM-X-51693 N64-22474 15-29

ALUMINUM TRUSS DESIGNS IN SATURN LAUNCH VEHICLE AND APOLLO SPACECRAFT
NASA-TM-X-51843 N64-26368 18-10

MANUAL CONTROL OF APOLLO SPACECRAFT DURING ATMOSPHERIC ENTRY
NASA-TN-D-2467 N64-27946 20-14

COMPUTER EVALUATION OF SPACE RADIATION HAZARDS AND REQUIREMENT FOR ADDITIONAL RADIATION SHIELDING IN APOLLO SPACECRAFT
NASA-CR-58294 N64-29365 21-20

APOLLO SPACECRAFT DEVELOPMENT N64-30332 22-32

HEAT SHIELD/STRUCTURE INTERFACE PROBLEMS PRODUCED BY ENVIRONMENT ASSOCIATED WITH APOLLO LUNAR FLIGHT
LMSC-5-10-63-17 N64-32343 23-13

DOSIMETRIC DATA EVALUATION ON SOLID ANGLE BREAKDOWN OF SHIELD THICKNESS FOR APOLLO VEHICLE - RADIATION HAZARD IN SPACE FLIGHT
NASA-CR-59266 N64-33284 24-16

PERFORMANCE ANALYSIS OF SATURN I /SA-6/ LAUNCH VEHICLE AND APOLLO SPACE SYSTEM
NASA-TM-X-55104 N64-33626 24-08

APPARATUS
S ABORT APPARATUS
S DISTILLATION APPARATUS
S LABORATORY APPARATUS
S LOADING APPARATUS
S MEASURING APPARATUS
S PENDULUM APPARATUS
S PHOTOELECTRIC APPARATUS
S PHOTOGRAPHIC APPARATUS
S PRESSURE APPARATUS
S SUPERSONIC WIND TUNNEL APPARATUS
S TIMING APPARATUS

APPROACH AND LANDING
LABORATORY STUDIES OF ABILITY OF OBSERVERS TO PERFORM THREE VISUAL TASKS REQUIRED OF PILOTS IN APPROACH AND LANDING
HSR-RR-63/7-MX-X N64-10444 01-14

ABILITY OF HUMAN SUBJECTS TO PERFORM VISUAL TASKS REQUIRED IN APPROACH AND LANDING N64-10445 01-14

MECHANIZED AIRBORNE APPROACH AND LANDING SYSTEM FEASIBILITY STUDY
NASA-CR-52999 N64-11734 03-22

AERODYNAMIC ASPECTS OF BOUNDARY LAYER CONTROL FOR HIGH LIFT AT LOW SPEEDS DURING APPROACH, LANDING, AND TAKEOFF - AIRCRAFT DESIGN AND HANDLING
AGARD-414 N64-11907 03-03

PILOT-CONTROLLED CONSTANT GLIDE SLOPE POWER LANDING PROCEDURE AND EQUIPMENT
AGARD-423 N64-11909 03-10

FLIGHT MEASUREMENTS OF INFLUENCE OF SPEED STABILITY ON LANDING APPROACH
AGARD-420 N64-11991 03-04

FEATURES OF LARGE TRANSPORT AIRCRAFT AFFECTING CONTROL DURING APPROACH AND LANDING
AGARD-421 N64-13878 05-04

HORIZONTAL LANDING TECHNIQUES FOR HYPERSONIC VEHICLES
AGARD-428 N64-13882 05-04

FLIGHT OPERATIONAL TESTS OF PILOT VISUAL APPROACH AND LANDING AIDS
AGARD-431 N64-16291 08-10

APPROACH, LANDING, AND TAKEOFF INTERVALS AS DICTATED BY WAKES, VORTICES, AND WEATHER PHENOMENA
RD-64-4 N64-19020 11-10

APPROACH AND LANDING INSTRUMENT
CF LANDING AID
MECHANIZED AIRBORNE APPROACH AND LANDING SYSTEM FEASIBILITY STUDY
NASA-CR-52999 N64-11734 03-22

SAFETY ASPECTS OF CIVIL AIRCRAFT LANDING OPERATIONS - ANALYSIS OF GROUND AND AIRCRAFT INSTRUMENT LANDING EQUIPMENT N64-14725 06-10

APPROACH LIGHTING AIDS FOR AIRCRAFT LANDING N64-14735 06-10

LIGHTWEIGHT, PORTABLE RADAR APPROACH CONTROL SYSTEM FOR AUXILIARY AIRPORTS
ESD-TDR-64-185 N64-19128 11-10

APPROACH AND LANDING DISPLAY SYSTEM COMPONENTS AND COMPATIBILITY WITH COMPUTER OUTPUTS
NASA-CR-53969 N64-20600 13-10

INSTRUMENT APPOACHES WITH STEEP GRADIENT AIRCRAFT
TRECOM-TR-63-28 N64-22896 16-04

ANALOG COMPUTER STUDIES OF ALL-WEATHER INSTRUMENT LANDING SYSTEMS - LOW APPROACH DECISION REGIONS AND GLIDE PATH EXTENSION N64-26950 18-22

SPACECRAFT ON-BOARD OPTICAL GUIDANCE SYSTEM FOR PLANETARY APPROACH AND LANDING
NASA-CR-58236 N64-29004 20-22

PORTABLE APPROACH AND LANDING AID FOR TEMPORARY LANDING SITE N64-32502 23-22

APPROPRIATION
COST ESTIMATE, BUDGET APPROPRIATION, & MANAGEMENT PLANNING FOR NASA PROGRAM N64-20198 13-01

APPROXIMATION
S BOUSSINESQ APPROXIMATION
S SOMMERFELD APPROXIMATION

APPROXIMATION METHOD
SUCCESSIVE APPROXIMATION METHODS FOR SOLVING OPTIMALITY PROBLEMS
JPRS-17589 N64-11005 02-26

SUPERPOSITION PRINCIPLE FOR SYSTEM OF ANALYTIC DIFFERENTIAL EQUATIONS YIELDING BETTER APPROXIMATING SERIES
R63SD-88 N64-13098 04-20

COMMUNICATION BLACKOUT AT REENTRY - APPROXIMATE COMPUTATION METHOD
NASA-CR-55167 N64-13335 04-08

RESULTS AND OPEN PROBLEMS OF ALGEBRAIC NATURE IN APPROXIMATION THEORY N64-13424 05-20

EQUATIONS FOR APPROXIMATE DETERMINATION OF NUMBER OF BROKEN LINES IN PIECEWISE-LINEAR APPROXIMATION N64-13571 05-20

APPROXIMATION ON METHOD FOR SATISFYING BOUNDARY LAYER CONDITIONS BY SPECIFIC RADIANT INTENSITY IN RADIATION GAS DYNAMICS
AD-425986 N64-13980 05-23

DIRECT INTERACTION APPROXIMATION FOR STATIONARY ISOTROPIC TURBULENCE MAINTAINED BY RANDOM STIRRING FORCES AT WAVENUMBER FREQUENCY
RR-3 N64-14703 06-11

APPROXIMATE CALCULATIONS OF WATER VAPOR SPECTRAL ABSORPTION COEFFICIENTS AT ELEVATED TEMPERATURES N64-15005 07-23

APPROXIMATION METHOD FOR HEAT AND MASS TRANSFER IN BOUNDARY LAYERS
AD-430289 N64-16467 08-23

SIGNIFICANCE OF APPROXIMATION BY POLYNOMIALS AND RATIONAL FUNCTIONS
RM-4051-PR N64-18178 10-20

APPROXIMATION TECHNIQUE FOR CONSTRUCTION OF CONTROL LAW FOR OPTIMAL STABILIZATION OF NONLINEAR SYSTEM
RN-165 N64-19924 12-20

APPROXIMATION METHOD FOR COMPUTING DIFFRACTION PATTERNS CAUSED BY IONOSPHERIC IRREGULARITIES
D1-82-0334 N64-19964 12-12

APPROXIMATION METHOD FOR SOLUTION OF TWO-DIMENSIONAL SCALAR SCATTERING PROBLEMS
ESD-TDR-64-13 N64-21624 15-09

APPROXIMATION METHOD OF COMPUTING THREE-DIMENSIONAL LAMINAR BOUNDARY LAYER FOR BLUNT BODY IN HYPERSONIC FLOW
FTD-TT-63-1136/1 N64-21663 15-11

APPROXIMATION METHOD FOR MISSILE TRAJECTORY REDUCTION FROM OPTICAL OBSERVATIONS
R63SD1045 N64-21791 15-29

SUCCESSIVE APPROXIMATIONS BASED ON PONTRYGIN PRINCIPLE FOR SOLUTION OF OPTIMAL CONTROL PROBLEMS
FTD-TT-63-701/1&2 N64-22181 15-09

APPROXIMATION METHOD FOR SOLVING NONLINEAR DIFFERENTIAL EQUATIONS
SEG-TDR-64-25 N64-22375 15-20

NEWTON METHOD FOR APPROXIMATE SOLUTION OF SYSTEM OF EQUATIONS
NRC-464 N64-22603 15-20

APPROXIMATION FORMULA FOR ARBITRARILY SHAPED HOMOGENEOUS GEOMETRIC BODIES N64-22927 16-23

COMPUTER SUBROUTINE FOR INTRODUCING FIXED AND VARIABLE DELAY FUNCTIONS IN ANALOG PROBLEMS
EUR-347.F N64-23047 16-20

APPROXIMATION METHOD FOR INVESTIGATING NONLINEAR SYSTEMS
FTD-TT-63-319/1&2 N64-23299 16-06

NOMOGRAPHS FOR APPROXIMATE CALCULATIONS OF VELOCITY DISTRIBUTIONS IN TURBINE GRILLS N64-23490 16-11

APPROXIMATION METHODS FOR SOLUTION OF LINEAR AND INTEGRAL EQUATIONS FOR THERMOCONDUCTIVITY AND DIRICHLET PROBLEMS
FTD-TT-63-808/1&2 N64-23688 16-23

APPROXIMATION METHOD FOR SOLUTION OF INTEGRAL EQUATIONS FOR DIRICHLET PROBLEMS N64-23690 16-23

SUCCESSIVE APPROXIMATION METHOD FOR SOLUTION TO DIFFERENTIAL EQUATION SYSTEM
NASA-TT-F-8739 N64-25281 17-20

APPROXIMATION METHOD FOR COMPUTING BACKSCATTERING FROM CYLINDRICAL PLASMA CONFIGURATION WITH AXISYMMETRIC ELECTRON DENSITY
TR-394 N64-25589 17-20

SELECTION OF MULTIVARIBLE APPROXIMATING FUNCTION SATISFYING GIVEN ERROR TOLERANCE IN SENSE OF LEAST SQUARES
NASA-CR-58207 N64-26870 18-20

APPROXIMATION METHOD TO DEFINE TWO POINT BOUNDARY VALUE PROBLEM OF CELESTIAL MECHANICS
R64SD57 N64-27325 19-20

APPROXIMATE METHOD FOR CALCULATING FAR FLOW FIELD PROPERTIES OF ROCKET EXHAUSTING INTO VACUUM
U-2630 N64-28013 20-11

APPROXIMATION PROBLEMS IN SIGNAL DESIGN
NASA-CR-58495 N64-28942 20-08

APPROXIMATION AND ALLOCATION - VARIATIONAL CALCULUS
MRC-382 N64-29031 21-20

APPROXIMATION FORMULAS FOR DETERMINING LIFETIME OF SATELLITES TRAVELING AT LOW ALTITUDES N64-29078 21-29

ENERGY LEVELS OF MANY-FERMION SYSTEM BY METHOD EQUIVALENT TO RANDOM PHASE APPROXIMATION
TH-42 N64-30492 22-23

APPROXIMATE METHODS FOR SOLUTION OF DUAL FOURIER-BESSEL SERIES RELATIONS
AD-434416 N64-30585 22-20

MODAL ANALYSIS AND SYNTHESIS OF ELECTROMAGNETIC FIELDS - APPROXIMATE METHODS FOR SOLVING TRANSMISSION LINE EQUATIONS IN VARIABLE MEDIA
PIBMRI-1225-64 N64-32103 23-08

NUMERICAL APPROXIMATIONS AND FORTRAN IV PROGRAM FOR CALCULATING ELLIPTIC INTEGRALS OF THIRD KIND
E-110.3 N64-32190 23-20

SIMULATION OF TRANSIENT RADIO WAVE PROPAGATION BY APPROXIMATION METHOD N64-32229 23-03

AXIAL ECHO AREA OF PERFECTLY CONDUCTING PROLATE SPHEROID USING IMPULSE APPROXIMATION
REPT.-1774-1 N64-32505 23-08

APPROXIMATION METHODS FOR OMNIDIRECTIONAL RESPONSE FROM UNIAXIAL ACCELEROMETERS
TR-1243 N64-32532 23-15

CHARACTERISTIC VALUES FROM NEW APPROACH TO PHASE INTEGRAL APPROXIMATION
AFCRL-64-638 N64-32630 23-23

ANGULAR RESOLUTION BY WAVE FRONT APPROXIMATION METHOD
TM-132 N64-32765 24-08

NONLINEAR RECURSIVE ESTIMATION PROCEDURE - APPLICATION TO SPACE NAVIGATION - STOCHASTIC APPROXIMATION METHOD
NASA-CR-58962 N64-33171 24-20

APPROXIMATION TECHNIQUES FOR PROBLEMS INVOLVING RADIATIVE TRANSFER OF ENERGY AND HYDRODYNAMIC PROCESSES
DASA-1522 N64-33709 24-11

TWO-STREAM APPROXIMATION FOR RADIATIVE TRANSFER OF ENERGY THROUGH SPHERICALLY SYMMETRIC MEDIA
DASA-1486 N64-33846 24-23

IMPROVED SOLUTION FOR STRUCTURALLY ORTHOTROPIC SHELL USING CONSECUTIVE APPROXIMATION METHOD
FTD-TT-64-418/1&2&4 N64-33939 24-24

ARC

SA ELECTRIC ARC
SA PLASMA ARC
CF LAMP

MERCURY ARC DISCHARGE PLASMA MEASUREMENTS IN MAGNETIC FIELD N64-11961 03-24

LOW-PRESSURE ARC SOURCE FOR EMISSION SPECTRUM OF FERROUS OXIDE N64-13341 04-23

SPACE CHARGE AND HYDROMAGNETIC INSTABILITIES IN AURORAL ARC DEFORMATIONS N64-20674 13-12

ELECTRIC BREAKDOWN AND ARCING IN ION THRUSTORS FOR POWER SUPPLIES
AIAA PAPER-63-057 N64-20713 13-27

ARC SPOT AS STEADY STATE EXPLODING WIRE PHENOMENON N64-21377 14-24

RADIATION SPECTRUM FROM VORTEX-STABILIZED ARC FOR SOLAR SIMULATOR
AEDC-TDR-64-165 N64-27443 19-28

ARC IGNITION TECHNIQUES FOR SOLID PROPELLANTS
RPL-TDR-64-116 N64-28236 20-26

PLASTIC BEHAVIOR OF ARC-CAST MOLYBDENUM AND ELASTIC LINEAR STRAIN HARDENING OF ZINC ALLOY BEAM
ML-TDR-64-158 N64-30692 22-18

PLASMA FLOW IN MAGNETIC ANNULAR ARC NOZZLES N64-31606 23-27

INTEGRATION CONSTANTS FOR ORBIT CALCULATIONS DETERMINED FROM SHORT ARCS - BAKER-NUNN OBSERVATIONS OF ECHO
NASA-TM-X-55080 N64-33623 24-29

ARC DISCHARGE
DC ARC DISCHARGE IN PARALLEL SUBSONIC FLOW OF ARGON
NASA-CR-50818 N64-12947 04-24

HYPERVELOCITY LIGHT GAS ACCELERATOR USING ARC DISCHARGE HEATING OF DRIVER GAS N64-13516 05-23

ENERGY LOSSES AND CHARACTERISTICS OF ELECTRIC ARC DISCHARGE FOR WELDING APPLICATIONS
FTD-TT-62-1818/1&2 N64-20310 13-17

UTILIZATION OF ION BEAM CURRENT FROM HIGH PULSE ARC DISCHARGE IN PROTON SOURCES
FTD-TT-64-330/1&2 N64-21977 15-24

MICROWAVE RADIATION AT CYCLOTRON HARMONICS IN A POSITIVE COLUMN IN ARC DISCHARGE
IPPJ-23 N64-22006 15-24

PLASMA DENSITY IN ARC DISCHARGE - ELECTRON BEAM-PLASMA INTERACTION FOR GENERATION AND AMPLIFICATION OF COHERENT SIGNALS
TR-64 N64-22327 15-24

ATMOSPHERIC EFFECT ON RADIATION OF ARC DISCHARGES
FTD-TT-63-19/1&2 N64-22337 15-24

ARC DISCHARGE IN LITHIUM VAPOR
EUR-1627.F N64-23207 16-24

FORMATION OF CRYSTAL STRUCTURE DEFECTS IN METALS DURING ARC DISCHARGE N64-23502 16-18

DETECTION OF PLASMA PROPAGATION BEYOND DISCHARGE ANODE LIMITS DURING STUDY OF LOW VOLTAGE, ARC DISCHARGE IN MERCURY VAPORS
FTD-TT-64-587/1&2&4 N64-26735 18-24

ARC ATTACHMENT REGIONS ON CATHODE IN HIGH CURRENT GAS DISCHARGE
EOS-3240-FINAL N64-26917 18-24

SHAPE OF ELECTRIC ARC DISCHARGE ROTATED IN ANNULAR GAP BY EXTERNAL MAGNETIC FIELD
NASA-TN-D-2155 N64-32276 23-24

ARC HEATING
SPECTROGRAPHIC DETERMINATION OF TEMPERATURE ACROSS NOZZLE EXIT OF ARC-HEATED WIND TUNNEL
ASD-TDR-63-98 N64-12595 04-24

SPECTRAL REFLECTANCE AND EMISSIVITY OF CARBON AND GRAPHITE MATERIALS MEASURED BY CARBON ARC IMAGE FURNACE
WADD-TR-61-72, VOL. 21 N64-15578 07-19

ALTERNATING CURRENT ARC HEATER DESIGN
ARL-64-9 N64-16815 08-24

ELECTRICAL PROPERTIES OF ARGON AND NITROGEN PLASMA FLOWS IN ARC-HEATED PLASMA TUNNEL N64-19834 12-24

DESIGN CRITERIA FOR ARC HEATER FOR ATMOSPHERIC ENTRY SIMULATION
R63SD49 N64-20677 13-24

STAGNATION POINT HEAT TRANSFER MEASUREMENTS ON FLAT-FACE CYLINDERS IN ARC-HEATED SUBSONIC STREAM
NASA-TN-D-1927 N64-22746 16-11

TECHNOLOGY OF THREE PHASE AC ARC HEATERS
ARL-64-29 N64-23134 16-13

REENTRY SIMULATION IN ARC HEATED HYPERSONIC WIND TUNNEL
NASA-TN-D-2344 N64-25188 17-10

OPERATING ENVELOPES OF SUPERSONIC ELECTRIC ARC AIR HEATERS FOR REENTRY ENVIRONMENT SIMULATORS
NASA-CR-99 N64-28307 20-10

FAR INFRARED MEASUREMENT OF HIGH TEMPERATURE AIR FROM ARC HEATED PLASMA TUNNEL
REPT.-1565-7 N64-28457 20-24

ARC HEATERS AND MAGNETOHYDRODYNAMIC ACCELERATORS FOR AERODYNAMIC PURPOSES
AGARDOGRAPH-84, SUPPL. N64-29122 21-24

ARC HEATED LIQUID SODIUM AS WORKING GAS FOR AERODYNAMIC WIND TUNNEL - ALKALI METAL ARC TUNNEL
NOLTR-64-82 N64-30979 22-10

ELECTRIC ARC AIR HEATER DESIGN FOR WIND TUNNEL FACILITY - COMPONENTS, POWER SUPPLY, CONTROL SYSTEMS, AND INSTRUMENTATION
AERODYNAMICS RES. REPT.-202 N64-31049 22-10

ARC JET
EFFECT OF RESIN COMPOSITION AND FILLERS ON PERFORMANCE OF MOLDED CHARRING ABLATOR IN SUBSONIC ARC JET
NASA-TN-D-2024 N64-11553 03-13

HEAT TRANSFER TO SURFACE RECESSED WITHIN FORWARD STAGNATION REGION SLIT UNDER SUBSONIC ARC JET CONDITIONS
NASA-TN-D-2034 N64-11899 03-13

CONSTRICTED-ARC SUPERSONIC JET EVALUATION
NASA-TN-D-2066 N64-12717 04-24

HYDROGEN ATOM RECOMBINATION CATALYSIS FOR INCREASE IN PROPELLANT SPECIFIC IMPULSE - ARC JET PROPULSION UNIT APPLICATION
NASA-CR-52376 N64-13061 04-23

INSTRUMENTATION AND DIAGNOSTIC TECHNIQUES FOR HIGH TEMPERATURE PLASMAS AND GASES HEATED WITH ARC-JET HEATERS
ARL-64-80 N64-22681 15-24

LOW POWER ARC-JET ENGINES AND USE IN SPACE FLIGHTS
AIAA PAPER-64-502 N64-24167 16-27

LARGE ARC JET THRUSTOR FOR SPACECRAFT ELECTRIC PROPULSION SYSTEM
FRO24-10338 N64-24188 16-27

THERMAL ARC JET SYSTEM USING AMMONIA AS PROPELLANT N64-25022 17-26

FUNCTIONAL FEATURES OF LIQUID HYDROGEN TANK FOR ARC-JET FEED SYSTEM N64-25023 17-26

HIGH TEMPERATURE MATERIALS - EVALUATION OF COATED REFRACTORY ALLOYS USING ARC-PLASMA-JET N64-27031 19-19

THREE PHASE ALTERNATING CURRENT HYDROGEN ARC JET

PROPULSION SYSTEM
NASA-CR-54112 N64-28462 20-27

NUCLEAR-ELECTRIC POWER REQUIREMENTS FOR ELECTRIC ROCKETS - CONTACT AND BOMBARDMENT ION ENGINES, ARC JETS, AND PULSED PLASMA ENGINES
AIAA PAPER-64-765 N64-29575 21-06

ARC PLASMA JET FOR EVALUATING HIGH TEMPERATURE MATERIALS
ML-TDR-64-73 N64-29926 21-17

HIGH TEMPERATURE MATERIALS EVALUATION - COATINGS FOR REFRACTORY ALLOYS AND ARC-PLASMA-JET
ML-TDR-64-62 N64-30110 21-17

TURBULENCE IN AN ARC PLASMA JET USING ELECTRO-MAGNETIC INDUCTION
SSD-TDR-64-122 N64-30112 21-24

PERFORMANCE OF HIGH SPECIFIC IMPULSE LIQUID-COOLED ARC JET ENGINE USING HYDROGEN AS PROPELLANT
AIAA PAPER-64-669 N64-33144 24-27

ARC MELTING
ELECTRIC ARC MELTING OF STEEL ALLOYS - ELECTROSLAG PROCESS N64-10848 02-18

DISPERSION STRENGTHENED VANADIUM-NIOBIUM ALLOYS PREPARED BY ARC-MELTING
IITRI-B6007-5 N64-12126 03-18

TUNGSTEN BASE ALLOYS PREPARED BY VACUUM-ARC-CASTING PROCESS
AD-424267 N64-12245 03-18

HIGH TEMPERATURE PROPERTIES OF CAST TUNGSTEN PRODUCED BY ELECTRIC-ARC MELTING IN VACUUM FURNACE N64-12446 04-18

CRYSTALLIZATION & FORMATION OF INGOTS USING CONSUMABLE ELECTRODE ARC-MELTING PROCESS
JPRS-23056 N64-14257 06-17

STATISTICAL ANALYSIS OF VACUUM MELTING AND ARC REMELTING OF HIGH STRENGTH STEEL
ASD-TR-7-678/V/ N64-14503 06-18

VACUUM ARC MELTING OF EXPERIMENTAL REFRACTORY METALS
RTD-TDR-63-4089 N64-14510 06-17

MELTING OF COLUMBIUM-BASE AND TANTALUM-BASE ALLOY INGOTS BY ARC CASTING
AD-297246 N64-17660 09-17

SINGLE CRYSTALS OF URANIUM MONOCARBIDE PREPARED FROM ARC-MELTED RODS
NAA-SR-7465 N64-19711 12-25

EFFECTS OF PURITY AND STRUCTURE ON PHYSICAL AND MECHANICAL PROPERTIES OF ARC-MELTED TUNGSTEN
NASA-TN-D-2503 N64-33085 24-18

ARC WELDING
CF SPOT WELDING
ARGON ARC, SPOT, AND ROLLER WELDING OF NIOBIUM ALLOYS, AND PROPERTIES OF WELDED JOINTS
JPRS-22597 N64-12702 04-17

AUTOMATIC SUBMERGED ARC-WELDING OF TITANIUM-ALLOY PARTS N64-13418 05-17

SURFACE COATING OF METAL OBJECTS BY VIBRATING-ARC WELDING
FTD-TT-62-1250/1&2 N64-16343 08-17

ARC WELDING, PLASMA ARC & ARCLESS ELECTRIC FUSION WELDING OF HEAT RESISTANT ALLOYS N64-17091 09-17

ARC WELDING, PLASMA ARC & ARCLESS ELECTRIC FUSION WELDING OF HEAT RESISTANT ALLOYS N64-17091 09-17

INERT-GAS SHIELDED ARC WELDING OF HEAT RESISTANT ALLOYS N64-17092 09-17

PLASMA WELDING & METAL CLEANING BY PLASMA ARCS
RSIC-123 N64-17655 09-24

ELECTRIC ARC WELDING OF TITANIUM IN INERT GAS STREAM
FTD-MT-63-31/1&2 N64-18748 11-17

AUTOMATIC CONTROL FOR STABILIZATION OF ARC WELDING PROCESS N64-23092 16-17

ADDITIONAL ARGON STREAM TO INCREASE DEPTH OF MELTING IN ARGON ARC WELDING OF ALUMINUM ALLOYS
FTD-TT-62-1754/1&2 N64-23409 16-18

SUBMERGED ARC AND ELECTROSLAG WELDING FOR THICK TITANIUM ALLOY PLATE
DMIC-MEMO-188 N64-24334 17-18

WELDING CAST ALUMINUM ALLOY PLATE TO WROUGHT ALUMINUM ALLOY PLATE USING GAS TUNGSTEN-ARC PROCESS
FA-R-1726 N64-30599 22-18

FUSION WELDING OF HEAT RESISTANT SINTERED ALUMINUM POWDER
JPRS-26793 N64-31473 23-18

ARCAS ROCKET
ACCURACY OF METEOROLOGICAL DATA FROM FLIGHTS OF ARCAS ROCKET AND ROBIN BALLOON TRACKED BY RADAR
AFCRL-63-938 N64-21822 15-21

DOUBLY-FED SLOT ANTENNA FOR ARCAS MISSILE
ERDA-74 N64-26316 18-08

ARCTIC
MAGNETIC VARIATIONS IN RUSSIAN ARCTIC AND REGIONAL GEOLOGY OF UST-YENISEY DEPRESSION
JPRS-21348 N64-10296 01-12

WATER TEMPERATURE DISTRIBUTION, TEMPERATURE ANOMALY EFFECT ON ARCTIC ICE COVER, BAROCLINIC DEPTH, METEOROLOGY & HYDROLOGY BIBLIOGRAPHY
JPRS-20398 N64-10843 02-21

ARCTIC D-REGION STUDY BY SOUNDING ROCKETS & GROUND OBSERVATIONS
AFCRL-63-748 N64-11451 03-12

WINTER SEASON CLIMATOLOGY OF ARCTIC STRATOSPHERE N64-11606 03-21

SYNOPTIC CHARTS OF MAGNETIC DISTURBANCE IN ARCTIC REGION N64-11660 03-12

HIGH FREQUENCY PROPAGATION OF TRANSPOLAR PULSE TRANSMISSIONS OVER ARCTIC PATHS USING IONOSPHERIC APSORPTION MEASUREMENT
UAG-R141 N64-12420 04-01

EFFECT OF IONOSPHERIC ABSORPTION OF SOLAR PARTICLE RADIATION ON ARCTIC HIGH FREQUENCY PROPAGATION N64-12421 04-20

GEOPHYSICAL INVESTIGATIONS OF ARCTIC ICE PACK
AFCRL-63-693 N64-12426 04-21

GEOPHYSICAL INVESTIGATION OF ARCTIC ICE PACK - SOUND PROPAGATION N64-12427 04-21

ARTIC LOW TEMPERATURE TEST OF YUH-1D HELICOPTER
ASD-TDR-63-564 N64-12680 04-06

RADIO ENGINEERING FOR GEODETIC & GEOGRAPHIC WORK BEYOND ARCTIC CIRCLE N64-12746 04-08

LONG WAVE RADIATION & TOTAL RADIATION BALANCE AT SURFACE IN ARCTIC
AFCRL-63-909 N64-13770 05-21

PRODUCTION OF TRIFLUORONITROSOMETHANE FOR CHEMICAL RESISTANCE IN ARCTIC TEMPERATURES - NITROSO RUBBER
RD-343-02 N64-14476 06-19

INFLUENCE OF SOLAR FLARES ON TRANSARCTIC HIGH FREQUENCY RADIO PROPAGATION N64-15434 07-08

SPECTROPHOTOMETRIC OPTICAL CHARACTERISTICS OF ARCTIC AIR MASSES

FTD-MT-63-17/1&2 N64-18747 11-21

VERY LOW FREQUENCY ATMOSPHERIC NOISE IN ARCTIC
N64-19690 12-12

METEOROLOGICAL INVESTIGATION IN ARCTIC AND ANTARCTIC
N64-24405 17-21

ATMOSPHERIC HEAT BUDGET IN ARCTIC REGION
N64-24486 17-21

SURFACE ALBEDO OF LAND AND SEA IN ARCTIC
N64-24795 17-12

ACTINOMETRIC OBSERVATIONS OF RADIATION CLIMATE OF CENTRAL ARCTIC
N64-24797 17-21

GREENHOUSE EFFECT OF ARCTIC ATMOSPHERE
AFCRL-64-495 N64-27531 19-21

PHYSIOLOGICAL CHANGES ACCOMPANYING STARVATION IN ARCTIC AND SUBARCTIC ENVIRONMENTS
AAL-TDR-63-16 N64-30975 22-16

ARECOLINE HYDROBROMIDE
ANIMAL STUDY FOR PHARMACOLOGICAL EFFECTS ON BRAIN STEM FROM ADMINISTRATION OF ARECOLINE HYDROBROMIDE AND PHENAMINE
N64-31342 23-16

ARGON
HOT ROLLING OF MOLYBDENUM IN VACUUM, ARGON, AND AIR
JPRS-21757 N64-10173 01-18

OSCILLATIONS IN ARGON DISCHARGE
NOL-TR-1182 N64-11771 03-23

CALIBRATION OF ARGON GAS NEUTRON ACTIVATION SAMPLING DEVICE
NASA-RP-97 N64-11951 03-15

EFFECTIVE ELECTRIC POLARIZABILITIES OF METASTABLE ARGON IN SELECTED MAGNETIC SUBSTATES
AD-424934 N64-12831 04-23

VISCOSITY OF NEON-HELIUM & NEON-ARGON MIXTURES AND THREE PURE COMPONENTS - SQUID PROJECT
BRN-8-P N64-12931 04-19

DC ARC DISCHARGE IN PARALLEL SUBSONIC FLOW OF ARGON
NASA-CR-50818 N64-12947 04-24

MEASUREMENT OF RADIOACTIVE ARGON DISPERSION IN AIR TO DETERMINE DILUTION FACTORS OF REACTOR STACK
AECL-1868 N64-12970 04-23

ARGON METASTABLE ATOMS IN IONIZATION OF ORGANIC MOLECULES
N64-13139 04-16

THERMODYNAMIC PROPERTIES OF ARGON, NITROGEN AND OXYGEN PLASMAS
AEDC-TDR-64-12 N64-14139 05-24

THREE-BODY ELECTRON-ION RECOMBINATION IN DENSE PLASMA OF HELIUM WITH TRACE OF ARGON
N64-14221 06-24

ABSORPTION COEFFICIENT, ELECTRON DENSITY, AND COLLISION RATE OF HELIUM PLASMA WITH ARGON TRACE AT HIGH MICROWAVE FIELD INTENSITIES
N64-14222 06-24

ALTERATIONS IN PETROLOGICAL COMPOSITION AND ARGON EMPLACEMENT BY ARTIFICIAL SHOCK OF BJURBOLE CHONDRITE IN ARGON ATMOSPHERE
NASA-CR-55365 N64-14269 06-05

ABSORPTION CROSS SECTION OF ARGON & METHANE IN 600 TO 200 ANGSTROM REGION
NSL-TR-63-187 N64-14933 06-23

SHOCK-TUBE HEAT TRANSFER EXPERIMENTS TO MEASURE THERMOCONDUCTIVITY OF ARGON FROM 700-8600 DEG K.
NASA-TN-D-2117 N64-14985 06-13

THERMOCONDUCTIVITY OF ARGON AT HIGH TEMPERATURES
AVCO EVERETT RES. REPT.-168 N64-15523 07-24

PULSED DISCHARGE IN ARGON AT LOW PRESSURE
FTD-TT-62-1282/1&2 N64-16345 08-24

NONEQUILIBRIUM INVISCID EXPANSION FLOWS OF IONIZED ARGON AROUND CORNER
UTIAS-95 N64-16448 08-11

OPERATION MODES OF CONFINED KILOWATT DC ARGON PLASMA JET IN HELIUM OR ARGON
AS-64-2 N64-16615 08-24

ARGON AND NITROGEN SHOCK WAVE THICKNESSES
AVCO-EVERETT RES. REPT.-172 N64-16865 08-11

SCINTILLATIONS IN ARGON AND NITROGEN
N64-17111 09-23

RADIANT ENERGY LOSS FROM CESIUM-ARGON PLASMA TO INFINITE PARALLEL PLANE ENCLOSURE
AVCO-EVERETT RES. REPT.-175 N64-17119 09-24

ELECTRON-ION RECOMBINATION IN FLOW OF PARTIALLY IONIZED ARGON PLASMA THROUGH WIND-TUNNEL NOZZLES
ARC-CP-634 N64-17247 09-24

ABSORPTION CROSS SECTIONS OF HELIUM, NEON, ARGON, KRYPTON, AND XENON FROM PHOTOIONIZATION THRESHOLDS TO 280 ANGSTROM UNITS
GCA-TR-64-3-N N64-17671 09-23

LITHIUM-ARGON SPUTTERING
AS-63-7 N64-17802 09-23

ATOMIC SCATTERING FACTOR OF NEON, ARGON, KRYPTON, AND XENON
AMRA-TR-63-15 N64-18571 11-23

AERODYNAMIC DRAG OF BLUNT CONES IN HYPERSONIC RAREFIED FLOW OF NITROGEN AND ARGON
AEDC-TDR-64-60 N64-19067 11-02

HARTLEY BAND EXTINCTION COEFFICIENTS OF OZONE IN GAS PHASE AND IN LIQUID NITROGEN, CARBON MONOXIDE, AND ARGON
NASA-CR-53898 N64-19794 12-23

THERMODYNAMIC PROPERTIES OF DISSOCIATED AND IONIZED ARGON, NITROGEN, & OXYGEN GASES FOR TEMPERATURES TO 35,000 DEG K
N64-19828 12-23

ELECTRICAL PROPERTIES OF ARGON AND NITROGEN PLASMA FLOWS IN ARC-HEATED PLASMA TUNNEL
N64-19834 12-24

THERMOCONDUCTIVITY OF SOLID ARGON
AD-437659 N64-20291 13-25

ULTRAVIOLET ABSORPTION SPECTRA OF OXYGEN IN LIQUID AND CRYSTALLINE ARGON AND NITROGEN
N64-20596 13-23

SOLIDS MASS SPECTROMETER - NOISE PROBLEM AND PRODUCTION OF ARGON ION BEAM FREE OF CONTAMINANTS
NASA-CR-56039 N64-20642 13-15

PURIFICATION OF ARGON FOR ENVIRONMENTAL CHAMBERS AND GLOVE BOXES
N64-20807 14-19

ABLATION BEHAVIOR OF CHARRING MATERIAL IN HIGH VELOCITY STREAMS OF ARC HEATED AIR, NITROGEN, AND ARGON
NASA-RP-179 N64-21278 14-13

DISTRIBUTION OF HELIUM, NITROGEN AND ARGON IN EARTH ATMOSPHERE AT HIGH ALTITUDES
N64-21636 15-12

MERCURY, POTASSIUM, ARGON, NEON, AND HELIUM GAS DISCHARGE STUDY AT VERY LOW PRESSURES
FTD-TT-62-1238/1&2 N64-21918 15-11

HYDROGEN, HELIUM, AMMONIA, AND ARGON GAS FLOW THROUGH ELECTRIC ARC HOT GAS CONTAINMENT LIMITS
ARL-64-49 N64-22306 15-24

IONIZATION OF ARGON IN UPPER ATMOSPHERE
NASA-TT-F-8817 N64-22935 16-12

DISTRIBUTION OF HELIUM, NITROGEN, AND ARGON IN

EARTH ATMOSPHERE TO 430 KILOMETERS
NASA-TT-F-8566 N64-23038 16-12

ADDITIONAL ARGON STREAM TO INCREASE DEPTH OF MELTING IN ARGON ARC WELDING OF ALUMINUM ALLOYS
FTD-TT-62-1754/1&2 N64-23409 16-18

SEEDING SHOCK WAVES IN ARGON AND HELIUM WITH POTASSIUM AND CESIUM
MT-51 N64-24872 17-24

NAVIER-STOKES CALCULATION OF ARGON SHOCK WAVE STRUCTURE
TR-5 N64-24880 17-20

TRANSPORT PROPERTIES OF MIXTURES OF HELIUM AND PARTLY IONIZED ARGON
AEL-673 N64-25034 17-24

EFFECTS OF ADDING HELIUM AND ARGON TO CESIUM VAPOR THERMIONIC CONVERTERS
AD-425081 N64-25193 17-13

PHYSIOLOGICAL EFFECTS OF ARGON, HELIUM, AND RARE GASES ON CELLULAR SYSTEMS
AD-600641 N64-25925 18-16

SCALAR ELECTRICAL CONDUCTIVITIES FOR NITROGEN AND ARGON PLASMA IN THERMAL EQUILIBRIUM
AEDC-TDR-64-119 N64-26101 18-24

ELECTRON-ION RECOMBINATION IN ARGON FLOWING THROUGH SUPERSONIC NOZZLE N64-26130 18-24

KINETIC STUDY OF ELECTRONS IN WEAKLY IONIZED GASES - ARGON, ARGON-HYDROGEN, & ARGON-CARBON MONOXIDE
AFCRL-64-444 N64-26236 18-24

PERTURBATION OF ABSORPTION SPECTRA OF CRYSTALLINE ARGON AND KRYPTON IN VACUUM ULTRAVIOLET BY INTERSTITIAL ATOMS OF XENON
QTSR-1 N64-27196 19-23

VELOCITY DEPENDENCE OF TOTAL CROSS SECTION FOR METASTABLE HELIUM SCATTERING BY HELIUM, ARGON, AND KRYPTON N64-27557 19-23

DISTRIBUTION FUNCTIONS OF ARGON AND XENON FLOW THROUGH CIRCULAR ORIFICE
UVA-5-P N64-27722 19-11

BIBLIOGRAPHY OF THERMOPHYSICAL PROPERTIES OF ARGON
NASA-CR-56793 N64-27835 19-23

SPUTTERING OF METEORITES BY POSITIVE HELIUM, NEON, AND ARGON IONS N64-28302 20-23

LIQUID-VAPOR EQUILIBRIUM PROPERTIES OF BINARY AND TERNARY SYSTEMS OF ARGON, NITROGEN, AND OXYGEN
APL-TDR-64-64 N64-28600 20-07

MULTIPLE TEMPERATURE BOUNDARY LAYER BEHIND REFLECTED SHOCK WAVE IN HIGHLY IONIZED ARGON
NASA-CR-58041 N64-28924 20-24

DESIGN AND CONSTRUCTION OF ANALOG COMPUTER FOR MONITORING MASS FLOWRATE OF ARGON THROUGH PIPING SYSTEM
NAA-SR-9745 N64-29450 21-20

END WALL BOUNDARY LAYER BEHIND REFLECTED SHOCK IN IONIZED ARGON
NASA-CR-58759 N64-29696 21-11

FORTRAN II LANGUAGE PROGRAM FOR CALCULATION OF NONEQUILIBRIUM EXPANSION FLOWS OF DISSOCIATED OXYGEN AND IONIZED ARGON AROUND CORNERS
UTIAS-TN-69 N64-29902 21-11

SPECTROSCOPIC MEASUREMENT OF EXCITATION TEMPERATURE OF LOW DENSITY, SUPERSONIC, ARGON PLASMA STREAM PRODUCED BY PLASMA JET
AEDC-TDR-64-196 N64-31069 22-24

THERMODYNAMIC PROPERTIES OF ARGON AT HIGH TEMPERATURES
FTD-TT-64-461/1 N64-31800 23-24

ENERGY REQUIREMENT FOR ION PRODUCTION BY ELECTRON BOMBARDMENT IN HELIUM, ARGON, AND CESIUM GASES
NASA-TM-X-52064 N64-32438 23-24

MEASUREMENT OF DIFFUSIVE SEPARATION OF ARGON AND NITROGEN BY RADIO FREQUENCY MASS SPECTROMETER
NASA-RP-321 N64-32639 23-12

MASS SPECTROSCOPY AND GAS ANALYZER FOR OXYGEN AND OTHER IMPURITIES IN ARGON AND HELIUM
NASA-CR-59004 N64-33035 24-07

INDUCED INFRARED ABSORPTION OF DILUTE SOLUTIONS OF HYDROGEN AND DEUTERIUM IN LIQUID ARGON
JPL-TR-32-586 N64-33763 24-23

EFFECTIVE ELECTRIC POLARIZABILITIES OF METASTABLE ARGON IN SELECTED MAGNETIC SUBSTATES
AD-424089 N64-33840 24-13

ARGON PLASMA
PARTIALLY IONIZED ARGON ACCELERATION IN CHANNEL OF CONSTANT CROSS-SECTIONAL AREA WITH UNIFORM APPLIED TRANSVERSE MAGNETIC FIELD
MIT-33-P N64-31641 23-24

THREE-BODY COLLISIONAL RECOMBINATION OF CESIUM SEED IONS AND ELECTRONS IN HIGH DENSITY PLASMAS WITH ARGON CARRIER GAS
NASA-TN-D-2004 N64-32404 23-24

ARGUS PROJECT
ARGUS FORTRAN II COMPUTER PROGRAM FOR CALCULATING TRANSIENT TEMPERATURES IN CONCENTRIC CYLINDRICAL CONFIGURATION
ANL-6654 N64-20473 13-20

ARIEL I SATELLITE
DEVELOPMENT OF ARIEL I IONOSPHERE SATELLITE
NASA-SP-43 N64-10332 01-32

ENERGY ABSORBER FOR ARIEL I INSTRUMENT BOOMS
NASA-TM-X-936 N64-12873 04-44

DISSIMILAR SATELLITE APPENDAGES DURING ERECTION - LAGRANGE FORMULATION APPLIED TO ARIEL I SATELLITE
NASA-TM-X-938 N64-12957 04-32

ENVIRONMENTAL TEST PROGRAM FOR ARIEL I SATELLITE
NASA-TN-D-2099 N64-15220 07-32

ARIEL I SATELLITE FOR IONOSPHERIC EXPLORATION
NASA-TM-X-54621 N64-16700 08-32

ARIEL SATELLITE
ARIEL IONOSPHERIC SATELLITE PROGRAM
IAC PAPER-136 N64-11944 03-32

ARITHMETIC AND LOGIC UNIT /ALU/
DIAGNOSABLE ARITHMETIC UNIT FOR DIGITAL COMPUTER
NASA-CR-53575 N64-18452 10-20

AROMATIC COMPOUND
BEHAVIOR OF CARBONYLAZIDE TOWARD AROMATIC HYDROCARBONS AND DECOMPOSITION OF CARBAZIDE
RSIC-93 N64-12921 04-07

POLYMERIZATION OF SILICON-NITROGEN AROMATIC COMPOUNDS BY ALUMINUM ORGANIC COMPOUND
NASA-CR-51595 N64-13060 04-07

KINETICS OF AROMATIC NITRATION
UCRL-11069 N64-13293 04-07

DECAY OF TRIPLET STATE OVER VISCOSITY-TEMPERATURE RANGE OF SOME AROMATIC COMPOUNDS IN SOLUTION
AFCRL-63-923 N64-13759 05-23

AUTOIGNITION OF DOWTHERM IN AIR AT ELEVATED PRESSURES
NASA-CR-55932 N64-17683 09-26

CHAIN TRANSFER EXPLANATION OF ANIONIC POLYMER FORMATION OF 9-VINYLANTHRACENE - POLYMER CHEMISTRY
NASA-CR-53570 N64-18449 10-07

GRAFT AND BLOCK CHARGE TRANSFER COPOLYMERS OF VINYL AROMATIC HYDROCARBONS
NASA-CR-53572 N64-18451 10-07

STRESS-STRAIN BEHAVIOR OF AROMATIC POLYAMIDE/HT-1/ AND POLYESTER/DACRON/ - ORGANIC FIBERS
SR-44641 N64-19007 11-19

MICRODETERMINATION OF VISCOSITY OF POLYPHENYLS - AROMATIC COMPOUNDS
EUR-594.D N64-19041 11-23

MAGNETIC RESONANCE OF AROMATIC HYDROCARBON CARBONIUM IONS N64-20662 13-23

MASS SPECTROMETER STUDY OF ALKANE-SULFUR AROMATIC COMPOUNDS - ALKYLTHIOPHENES
BM-RI-6433 N64-21609 15-07

RADIATION DECOMPOSITION OF SEVERAL AROMATIC HYDROCARBONS & FREE RADICALS
USNRDL-TR-718 N64-21806 15-07

AROMATIC AMINE ORGANIC CHLORIDE REACTIONS AND ORGANO-SODIUM AMIDE POLYMERS
TPR-1 N64-27677 19-07

THERMAL REACTIVITY OF AROMATIC HYDROCARBONS
WADD-TR-61-72, VOL. X, SUPPL. N64-29807 21-07

AROMATIC ORGANIC LASER DEVELOPMENT
AD-429409 N64-31121 22-25

AROMATIC ORGANIC LASER - SPECTROSCOPIC MEASUREMENTS, POLYMERIZATION, AND OPTICAL PROPERTY OF POLYMERS
AD-444962 N64-31122 22-25

AROMATIC POLYFLUORINE COMPOUNDS - CHEMICAL AND THERMAL STABILITY N64-31574 23-07

ARRAY
S ANTENNA ARRAY
S LINEAR ARRAY
S PHASED ARRAY
S SYNTHETIC ARRAY

ARROW WING
AERODYNAMIC CHARACTERISTICS OF AIRCRAFT CONFIGURATIONS WITH HIGHLY SWEPT TWISTED AND CAMBERED ARROW WINGS AT HYPERSONIC SPEEDS N64-20294 13-04

EFFECT OF SKEWED WING-TIP CONTROLS ON HIGHLY SWEPT ARROW WING AT SUPERSONIC SPEEDS
NASA-TN-D-1867 N64-31224 22-03

ARSENIC
ARSENIC AND PHOSPHOROUS DOPED CRYSTALS EVALUATION FOR TRANSISTOR EFFECT ON RADIATION RESISTANCE
GR-1 N64-13619 05-25

ARSENIC BEHAVIOR IN PROCESS OF LEACHING ZINC CINDERS IN SULFURIC ACID SOLUTION N64-31414 23-07

EXCITED RADIATION FROM SEMICONDUCTOR ARSENIC-GALLIUM P-N JUNCTION N64-33996 24-25

ARSENIC COMPOUND
IONIC STRUCTURAL ANALYSIS OF CHLORO-ARSENIC-FLUORIDE BY X-RAY INSPECTION AND MOLECULAR WEIGHT DETERMINATIONS
AD-424714 N64-13099 04-26

GALLIUM ARSENIC PHOSPHIDE SYNTHESIS BY HALOGEN VAPOR INTO LASER JUNCTIONS
AFCRL-63-552/B/ N64-13844 05-25

TEMPERATURE AND CONCENTRATION DEPENDENCE OF HALL MOBILITY OF ELECTRONS IN SILICON ALLOYED WITH ARSENIC AND PHOSPHORUS
FTD-TT-63-687/1&2 N64-21953 15-25

SYNTHESIS OF COMPLEXES OF QUATERNARY ARSENIC ATOMS LINKED TO SAME CARBON ATOM
TR-1 N64-28665 20-07

LOW TEMPERATURE HEAT CAPACITIES AND ENTROPIES OF SULFIDES OF ARSENIC, GERMANIUM, AND NICKEL
BM-RI-6511 N64-28675 20-18

ARSENIDE
SA GALLIUM ARSENIDE
CONDUCTION OF HALIDES, SULFIDES, ARSENIDES, AND SOLID ORGANIC COMPOUNDS - DIELECTRIC CONSTANT N64-14186 06-25

ASBESTOS
S ELECTRIC INSULATION
S THERMAL INSULATION

ASCENT TRAJECTORY
MOTION EQUATIONS - ITERATIVE GUIDANCE SCHEME FOR ASCENT TO ORBIT
NASA-TM-X-51383 N64-13495 05-29

ADAPTIVE CONTROL OF SATURN V ASCENT TRAJECTORY TO EARTH ORBIT N64-16522 08-22

SYNCHRONOUS METEOROLOGICAL SATELLITE STUDY - ATTITUDE & ORBIT CONTROL AND STATIONKEEPING
NASA-CR-55929 N64-17698 09-06

DYNAMIC ANALYSIS NONROLLING BALLISTIC MISSILE RAPIDLY ASCENDING THROUGH ATMOSPHERE
LR-392 N64-24912 17-02

TEMPERATURE LAPSE RATE EFFECT ON BALLOON ASCENT RATE
ERDA-140 N64-25594 17-04

EQUATIONS FOR THRUST-ALTITUDE-PITCH PROGRAM TO MINIMIZE PROPELLANT CONSUMPTION FOR SPACECRAFT ASCENDING IN VACUUM
SSD-TDR-64-120 N64-26229 18-29

APPROXIMATE TIME OPTIMUM GUIDANCE EQUATIONS FOR PLANETARY ASCENT AND DESCENT TRAJECTORIES AT CONSTANT THRUST FLAT BODY TWO-DIMENSIONAL CASE
NASA-TN-D-2361 N64-28058 20-29

OPTIMIZATION THEORY OF EARTH ASCENT TRAJECTORY OF SPACE VEHICLE APPLIED TO ROCKETS AND STATOREACTORS N64-29780 21-27

ASCORBIC ACID
EFFECT OF ASCORBIC ACID ON FUNCTION OF STRESSED SUPRARENAL GLANDS OF RATS IN HIGH TEMPERATURE ENVIRONMENT
JPRS-20011 N64-11319 02-16

ASCORBIC ACID PROPHYLAXIS AND TREATMENT FOR ILLNESS, TRAUMA, EXPOSURE TO COLD WEATHER, AND EXTREME PHYSICAL EXERCISE
AD-429526 N64-25323 17-16

ASIA
MAGNETIC ANOMALIES IN TRANSITION REGION FROM ASIA TO PACIFIC OCEAN
JPRS-21715 N64-10268 01-12

SEISMIC DIFFERENCES BETWEEN MONGOLIAN AND SOVIET ALTAY
JPRS-17612 N64-10483 01-12

CLIMATOLOGICAL DENSITY DATA FOR STATIONS IN ASIA AND EUROPE
NWL-1909 N64-26574 18-21

CUMULUS CONVECTION AND OROGRAPHIC CONVECTION CELLS - SYNOPTIC STUDY OF MONSOON RAINFALL IN SOUTHEAST ASIA
REPT.-4 N64-33707 24-21

ASPARTIC ACID
SYNTHESIS OF ALPHA-L-ASPARTYL-L-SERYLGLYCINE - TRIPEPTIDE ESTER N64-10344 01-07

PHYSICAL METABOLIC FATIGUE DUE TO SPARTASE - ASPARTIC ACID SALTS OF POTASSIUM AND MAGNESIUM
CARI-63-12 N64-14409 06-16

ASPECT RATIO
S LOW ASPECT RATIO WING

ASPHALT
CF TAR
ROLE OF BACTERIA IN CONVERSION OF PETROLEUM CARBON AND ASPHALT COMPONENTS UNDER ANAEROBIC CONDITIONS
FTD-TT-62-1449/1&2&4 N64-16396 08-16

ASPHYXIA
CF RESPIRATION
CENTRAL NERVOUS SYSTEM CHANGES OF RHESUS MONKEYS DUE TO ASPHYXIA DURING BIRTH N64-14600 06-16

ASTEROID
CF METEOR
CF METEORITE
PHOTOGRAPHIC STUDY OF VENUS, MARS, JUPITER, SATURN, MOON, ASTEROID 1580, & OTHER OBJECTS
NASA-CR-52850 N64-11294 02-05

FOSSIL GLASSES PRODUCED BY IMPACT OF METEORITES AND ASTEROIDS WITH PLANET EARTH
N64-16733 08-05

POSSIBLE MISSIONS AND GUIDANCE REQUIREMENTS FOR ASTEROID PROBES
NASA-CR-53729 N64-19566 12-29

NATURE AND ORIGIN OF METEORITES, ZODIACAL LIGHT, AND ASTEROIDS N64-21130 14-05

LONG PERIOD LIBRATION OF TROJAN MINOR PLANET
N64-25104 17-29

ASTHENOPIA
CONFERENCE ON BIOASTRONAUTICS - WEIGHTLESSNESS, SPACECRAFT STERILIZATION, ASTHENOPIA IN RADAR OBSERVERS, & HYPOBARIC ADAPTATION BY PERSONNEL
FTD-TT-64-556/1&2&3&4 N64-30163 21-29

ASTHMA
INDUCED SLEEP FOR CURE OF CHRONIC INSOMNIA, BRONCHIAL ASTHMA, ULCERS, AND HYPERTENSION
JPRS-18021 N64-11621 03-16

PERFUSION OF LUNGS OF HUMAN WITH ASTHMA
N64-17945 10-16

ASTRIONICS
S ASTRONAUTICS

ASTROBEE 1500 ROCKET
WIND-TUNNEL TEST OF ASTROBEE 1500 ROCKET MODEL TO MEASURE SIX-COMPONENT FORCES AND MOMENTS
NASA-CR-53042 N64-14891 06-02

ASTROMETRY
ASTROMETRY & ASTRONOMY N64-24649 17-05

PHOTOGRAPHIC ASTROMETRY N64-24650 17-05

PHYSICAL GEODESY - GRAVITY MEASUREMENTS AND MATERIALS, GRAVIMETRIC AND ASTRONOMIC MEASUREMENT, ASTROGEODETIC METHODS, GEOPOTENTIALS, AND EARTH CONSTANTS
AFCRL-64-566/II/ N64-30944 22-12

ASTRON THERMONUCLEAR REACTOR
PYROTRON, ASTRON, LIVERMORE PINCH, AND PLASMA PHYSICS PROGRAMS
UCRL-10852 N64-10317 01-24

ASTRONAUT
SA ORBITAL WORKER
CF PILOT
LIFE SUPPORT SYSTEM FOR ASTRONAUTS IN SPACE VEHICLES N64-10774 02-32

PSYCHOLOGICAL AND PHYSIOLOGICAL EFFECT OF SPACE FLIGHT ON ASTRONAUTS
JPRS-20171 N64-11135 02-14

RUSSIAN ASTRONAUT LANDING SITE AND GRAVITATION STUDIES
JPRS-19490 N64-11351 02-01

IDENTIFICATION OF CELL WALL SUBSTANCES IN ALGAE & FUNGI - SPACE FOOD FOR ASTRONAUTS
AMRL-TDR-63-72 N64-11461 03-16

MACHINE RECORD CARDS FOR RECORDING MEDICAL HISTORY - DEVELOPMENT & USE IN ASTRONAUT SELECTION
N64-13466 05-16

ASTRONAUTS FOR MANNED SPACE FLIGHT
NASA-EP-11 N64-14655 06-14

SIGNIFICANCE OF USSR ASTRONAUTS ORBITING EARTH
N64-16352 08-32

RADIATION SHIELDING FOR PROTECTION OF ASTRONAUTS IN SPACE VEHICLES
NASA-CR-56005 N64-17676 09-29

PHYSIOLOGICAL REACTIONS OF COSMONAUTS DURING THE ACTION OF GRAVITY LOADS AND WEIGHTLESSNESS
JPRS-23917 N64-17738 09-14

RADIATION DOSE DISTRIBUTION IN MODEL ASTRONAUT
AMRL-TDR-64-9 N64-18629 11-16

PHYSIOLOGICAL & PSYCHOLOGICAL DISORIENTATION OF ASTRONAUT DURING SPACE TRAVEL
NADC-MA-6321 N64-20329 13-14

ELECTROENCEPHALOGRAPHY FOR USE IN AIRCREW AND ASTRONAUT SELECTION
REPT.-12-63 N64-20380 13-14

DYNAMICS OF RETRIEVAL OF ASTRONAUT ON TETHERLINE
AIAA PAPER-64-393 N64-21372 14-29

PHYSIOLOGICAL AND BEHAVIORAL DATA OF ASTRONAUTS DURING SPACE FLIGHTS
FTD-TT-62-1300/1&2 N64-22622 15-32

IONIZING RADIATION EFFECTS ON PERFORMANCE CAPABILITIES OF ASTRONAUTS - ANNOTATED BIBLIOGRAPHY
SRB-63-13 N64-23365 16-14

TOLERANCE TO VEHICLE ROTATION OF ASTRONAUTS USING TURNING AND NODDING MOTION OF HEAD WHILE PERFORMING SIMPLE TASKS
AIAA PAPER-64-218 N64-23608 16-14

NONLIVING ASTRONAUT FOR EXPLORATION OF MOON AND PLANETS N64-23645 16-30

DISCOVERIES OF SOVIET ASTRONAUTS DURING MANNED SPACE FLIGHTS N64-23845 16-32

ELASTIC AIRBAG RESTRAINT SYSTEMS FOR VIBRATION AND IMPACT PROTECTION OF ASTRONAUTS OR AIRCRAFT PASSENGERS
AIAA PAPER-64-220 N64-24972 17-14

SPACE FLIGHT OF TWO U.S.S.R. ASTRONAUTS
JPRS-25272 N64-25163 17-14

SPACE FLIGHT CONDITIONS, ENVIRONMENT, AND ASSIGNMENTS OF ASTRONAUTS N64-25165 17-14

TELEMETRIC BIOMETRY OF ASTRONAUTS DURING SPACE FLIGHT N64-25166 17-14

PSYCHOLOGICAL AND PHYSIOLOGICAL RESPONSES OF TWO U.S.S.R. ASTRONAUTS DURING ORBITAL SPACE FLIGHT
N64-25167 17-14

POSTFLIGHT MEDICAL EXAMINATIONS OF U.S.S.R. ASTRONAUTS N64-25168 17-14

COSMIC RADIATION DOSE RECEIVED BY COSMONAUTS ABOARD VOSTOK V AND VI SPACECRAFT
N64-29089 21-23

PSYCHOLOGICAL EFFECTS ON RELIABILITY OF ASTRONAUT UNDER FLIGHT CONDITIONS
FTD-TT-63-761/1&2 N64-29277 21-14

AEROSPACE MEDICINE AND ASTRONAUT EVALUATION
N64-30722 22-14

TRAINING OF SOVIET ASTRONAUTS - SIMULATED FLIGHT ENVIRONMENT
JPRS-26762 N64-31440 23-14

INDIVIDUAL AND GROUP FACTORS IN ASTRONAUT SELECTION
FTD-TT-64-260/1 N64-31474 23-14

CALCIUM ENRICHED LIQUID DIET FOR ASTRONAUT IN SPACE
NASA-CR-59003 N64-33044 24-16

ASTRONAUT PERFORMANCE
ASTRONAUTS ACCELERATION TOLERANCE PERFORMANCE IN RETURNING TO ERECT POSITION FROM CROUCH
AMRL-TDR-64-56 N64-33530 24-14

ASTRONAUT TRAINING
EFFECTS OF SPACE ENVIRONMENT CONDITIONS ON MAN - SELECTION & TRAINING OF ASTRONAUTS, AND NUTRITION PROBLEMS
JPRS-21586 N64-10197 01-16

SOVIET SPACE FLIGHT TRAINING OF ASTRONAUTS
JPRS-21829 N64-10208 01-14

ASTRONAUTS ROLE IN SPACE PROGRAM - TRAINING EQUIPMENT AND SPACECRAFT MANEUVERS
JPRS-20100 N64-11133 02-14

SPACECREW SELECTION AND TRAINING - LITERATURE SURVEY
SID-63-707 N64-14423 06-14

ASTRONAUT TRAINING BY FLIGHT INSTRUCTOR
JPRS-24660 N64-20829 14-01

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N64-21869 15-16

COSMONAUT TRAINING
FTD-TT-64-66 N64-23098 16-16

ASTRONAUT TRAINING FOR SPACE FLIGHT
N64-25164 17-14

MAN IN SPACE - EXPLORATION STAGES, LIFE SUPPORT SYSTEMS, RADIATION PROTECTION, TRAINING, AND PHYSIOLOGICAL RESEARCH METHODS
JPRS-25825 N64-28438 20-29

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EP-6 REV. N64-33740 24-32

ASTRONAUTICS
SA BIOASTRONAUTICS
CF SPACE NAVIGATION
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NASA PROGRAM HEARINGS BEFORE COMMITTEE ON SCIENCE AND ASTRONAUTICS N64-19274 11-01

NASA PROGRAM HEARINGS BEFORE COMMITTEE ON SCIENCE AND ASTRONAUTICS N64-19275 11-01

ASTRONAUTICS - ROCKET MOTION, NUCLEAR FUELS, ORBITING ARTIFICIAL SATELLITES, PLASMA ENGINES
FTD-TT-61-123/162&364 N64-23395 16-01

SPEED, ACCELERATION, AND WEIGHTLESSNESS ASSOCIATED WITH AVIATION AND ASTRONAUTICS
FTD-MT-63-103 N64-29678 21-23

ASTRONOMICAL COORDINATE
STAR POSITION CATALOG PREPARATION AND REVISION OF ASTRONOMIC LATITUDES, LONGITUDES, AND AZIMUTHS FOR TRIANGULATION
JPRS-24729 N64-20819 14-05

ASTRONOMICAL COORDINATES AND IDENTIFICATION CHARTS OF NEWLY DISCOVERED PLANETARY NEBULA
N64-24129 16-05

ASTRONOMICAL OBSERVATORY
CATALOG OF SATELLITE OBSERVATIONS MADE BY SMITHSONIAN ASTROPHYSICAL OBSERVATORY
NASA-CR-52497 N64-10438 01-32

CATALOG OF SATELLITE OBSERVATIONS MADE BY SMITHSONIAN ASTROPHYSICAL OBSERVATORY
NASA-CR-52504 N64-10439 01-32

ASTRONOMICAL OBSERVATIONS OF HUMANS DURING COSMOS SATELLITE FLIGHTS
JPRS-20212 N64-11221 02-29

LUNAR ASTRONOMICAL EXPERIMENTS N64-13703 05-29

KITT PEAK NATIONAL OBSERVATORY N64-14417 06-15

KITT PEAK NATIONAL OBSERVATORY N64-14434 06-10

KITT PEAK NATIONAL OBSERVATORY N64-14435 06-10

KITT PEAK NATIONAL OBSERVATORY N64-14436 06-10

PROPER MOTIONS OF STARS OF POLAR REGION USED IN POLAR TUBE OF TOKYO ASTRONOMICAL OBSERVATORY - STAR TRACKING N64-15270 07-05

PHOTOGRAPHIC AND VISUAL OBSERVATIONS MADE AT NEW MEXICO STATE UNIVERSITY OBSERVATORY
N64-16327 08-16

INSTRUMENTATION FOR STUDY OF SUNSPOTS AND GENERAL SOLAR MAGNETIC FIELDS AT ROME ASTRONOMICAL OBSERVATORY - SPECTROGRAPHS AND MAGNETOGRAPH
AFCRL-64-114 N64-18584 11-28

ASTRONOMICAL INSTITUTES OF GREECE - OBSERVATIONS OF ATHENS ASTRONOMICAL OBSERVATORY
N64-22220 15-05

ASTRONOMICAL OBSERVATORIES & EQUIPMENT IN USSR
N64-24648 17-05

SPACE SCIENCE - SOLAR RADIATION, FLAME REACTION KINETICS, STRATOSPHERIC PLANETARY OBSERVATORY, INFORMATION SYSTEMS, AND SPACE BIOLOGY
N64-25186 17-28

PHOTOELECTRIC PHOTOMETER AT BOSSCHA OBSERVATORY
N64-27206 19-15

DESIGN OF ADVANCED ORBITING ASTRONOMICAL OBSERVATORY N64-28119 20-32

PERSONNEL & PROJECTS AT HARVARD ASTRONOMICAL OBSERVATORY N64-29232 21-10

TELESCOPIC OBSERVATIONS BY KITT PEAK NATIONAL OBSERVATORY N64-30808 22-10

ASTRONOMICAL STATION FOR OBSERVATIONS IN FAR INFRARED REGION OF SPECTRUM
NASA-TT-F-8953 N64-30846 22-15

ASTRONOMICAL PHOTOGRAPHY
ASTRONOMICAL OBSERVATIONS IN NEW MEXICO, AND INSTRUMENTATION DESIGNED TO REDUCE EFFECTS OF ATMOSPHERE-INDUCED IMAGE ABERRATIONS
AFCRL-63-217 N64-17857 10-23

PHOTOGRAPHIC ASTROMETRY N64-24650 17-05

ASTRONOMICAL PHOTOGRAPHY OF GALAXIES IDENTIFIED WITH RADIO SOURCES
AD-442604 N64-30015 21-05

CATALOG OF LUNAR CRATERS FROM PHOTOGRAPHIC LUNAR ATLAS
NASA-CR-58785 N64-30516 22-05

ASTRONOMICAL PHOTOMETRY
COLORIMETRIC PHOTOMETRY OF GALAXIES NGC 2976, 3031, 3034, AND 3077 N64-10027 01-05

PHOTOMETRIC OBSERVATION OF AURORAS BY INJUN III SATELLITE
NASA-CR-55159 N64-13058 04-12

PHOTOMETRY, DIMENSIONS, AND ABLATION RATE OF COMETS N64-15601 07-05

EVALUATION OF PHOTOMETRIC DATA FOR DETERMINING ACCURACY OF LUNAR SURFACE BRIGHTNESS PREDICTION
NASA-CR-53576 N64-18439 10-29

PHOTOMETRIC PROCESSING OF SOLAR FLARES
AID-T-63-49 N64-19424 12-28

OLD AND NEW LUNAR PHOTOMETRIC MODELS ASSESSMENT
ADR-04-04-64.1 N64-21813 15-29

THREE-COLOR PHOTOMETRY OF LUNAR MARE DURING LUNAR ECLIPSE
SUI-64-19 N64-24069 16-23

PHOTOMETRIC PROPERTIES OF LUNAR CRATER FLOORS
NASA-TT-F-209 N64-28023 20-05

PHOTOMETRY OF SURFACE PROPERTIES OF ECHO I
NASA-CR-58290 N64-29572 21-08

ASTRONOMICAL SPECTRUM
SPECTROSCOPIC OBSERVATION EXTENSION OF SYMBIOTIC STARS BY INCREASING RESOLUTION IN WAVELENGTH RANGE AND EXTENDING SPECTROSCOPIC INVESTIGATION TO PHOTOGRAPHIC INFRARED
NASA-RP-268 N64-31569 23-05

ASTRONOMICAL TELESCOPE
ASTRONOMICAL TELESCOPE N64-13677 05-10

BALLOON-BORNE ASTRONOMICAL TELESCOPE - STELLAR GUIDANCE SYSTEM N64-14258 06-22

ASTRONOMICAL OBSERVATIONS WITH ELECTRON TELECOPES
JPRS-23570 N64-16288 08-05

RADIO CONTROLLED BALLOON-BORNE ASTRONOMICAL TELESCOPE - STRATOSCOPE II N64-19154 11-15

ASTRONOMY
GEOLOGY & ASTRONOMY - GEOMAGNETIC STORMS, COSMIC RADIATION, CLIMATOLOGY, STRATOSPHERIC, AND IONOSPHERIC STUDIES
JPRS-21593 N64-10199 01-01

ANGULAR SCATTERING FROM IRREGULARLY SHAPED PARTICLES WITH APPLICATION TO ASTRONOMY
NASA-RP-64 N64-10331 01-29

ASTROGRAVIMETRIC LEVELING OF GEODETIC POINTS IN BOHEMIA AND MORAVIA
JPRS-18266 N64-10500 01-12

RELATIONSHIP BETWEEN NEUTRINOS AND ASTRONOMY
JPRS-18605 N64-10576 01-05

BIBLIOGRAPHY - SPACE & ASTRONOMY
NASA-EP-3 N64-10605 01-29

THEORIES OF STRUCTURE AND COMPOSITION OF POLAR AURORA - TRAPPED PARTICLES AND SOLAR STREAMS DETERMINING FUNDAMENTAL CONSTANTS OF ASTRONOMY
JPRS-18276 N64-10639 01-12

ERRORS IN DETERMINATION OF VENUS DIAMETER - ASTRONOMY N64-11257 02-05

DETERMINATION OF NONUNIFORMITY OF ASTRONOMICAL TIME USING MOLECULAR STANDARD N64-11424 02-05

INFRARED MAPPING OF LUNAR CRATERS DURING FULL MOON & DURING TOTAL ECLIPSE
DI-82-0176 N64-12018 03-28

ANOMALOUS SOUNDS AND ELECTROMAGNETIC EFFECTS ASSOCIATED WITH FIREBALL ENTRY - METEOR ASTRONOMY
RM-3724-ARPA N64-12681 04-09

OBSERVING PROPERTIES OF OBJECTS IN RADAR ASTRONOMY - DETECTION OF SPREAD RADAR TARGET
MIT-TR-282 N64-13035 04-05

METHODS, TELESCOPES, AND INSTRUMENTS FOR ASTRONOMY
JPRS-22696 N64-13676 04-01

TESTING PRECISE MIRRORS OF ASTRONOMICAL INSTRUMENTS WITH VACUUM CHAMBER N64-13690 05-10

GEODESY, GEODETIC ASTRONOMY, & GRAVIMETRY N64-14200 06-12

METEOR ASTRONOMY - OBSERVATION METHODS & RESULTS
JPRS-23047 N64-14528 04-0

COMPUTER PROGRAMS FOR PROCESSING SIGNALS RECEIVED IN RADAR ASTRONOMY
REPT.-64G-4 N64-14837 04-2

RADAR STUDY OF PLANET MARS - SURFACE, ROTATION, SURFACE CONDUCTIVITY, AND ASTRONOMICAL UNIT
NASA-CR-53051 N64-14844 04-2

SPACE ASTRONOMY AND THE SLOW-SCAN VIDICON SYSTEM
NASA-CR-53053 N64-14846 04-1

TOOLS OF MODERN ASTRONOMERS N64-15277 07-0

INFRARED TECHNIQUES IN ASTROPHYSICS N64-15288 07-0

GEOPHYSICAL AND ASTRONOMICAL CONTRIBUTIONS OF COSMOS III AND V SATELLITES
FTD-TT-62-1547/1&4 N64-16072 07-2

RADIO & RADAR ASTRONOMY - CURRENT RESEARCH N64-16558 08-0

USSR ASTRONOMICAL RESEARCH - ORGANIZATIONS, PUBLICATIONS, AND INTERNATIONAL PROGRAMS
JPRS-23658 N64-17243 09-0

STELLAR ASTRONOMY - STAR DISTRIBUTION, EVOLUTION, KINEMATICS, AND DYNAMICS
JPRS-23821 N64-17350 09-0

APPLICATION OF PFAFF EQUATION TO THEORY OF VARIATION OF ASTRONOMICAL PARAMETERS
NASA-TN-D-2301 N64-19168 11-0

EXPERIMENTS & RESEARCH IN ASTRONOMY, SOLAR PHYSICS, PLANETARY ATMOSPHERES, IONOSPHERES & RADIO PHYSICS, PARTICLES & FIELDS, AND BIOSCIENCES
NASA-TM-X-51603 N64-19258 11-0

ASTRONOMY - INVESTIGATION OF GALACTIC AND SOLAR RADIATIONS N64-19261 11-0

PROBLEMS OF COSMOGONY - COLLECTION OF ARTICLES ON ASTRONOMICAL PHENOMENA
JPRS-24435 N64-19326 12-2

ELECTRIC PROPERTIES OF LUNAR SURFACE - CORRELATION OF RADAR AND PHOTOGRAPHIC DATA
NASA-CR-53880 N64-19850 12-2

ASTRONOMICAL CONSTANTS N64-21513 15-1

LINEAR INTERPOLATION ERRORS OF ASTRONOMICAL-GEODETICAL DEFLECTIONS
JPRS-24666 N64-22726 16-1

BIBLIOGRAPHY - ASTRONOMY IN USSR
FTD-TT-63-1149, PT. 2 N64-23100 16-0

RELATION OF SPACE EXPLORATION TO ASTRONOMY N64-23847 16-1

ASTRONOMY & PLANETS IN SOLAR SYSTEM
FTD-TT-62-7/1&2&3&4 N64-24489 17-0

ASTRONOMY IN USSR
FTD-TT-63-1149/1&2&4 N64-24646 17-0

ASTRONOMY IN USSR N64-24647 17-0

ASTRONOMICAL OBSERVATORIES & EQUIPMENT IN USSR N64-24648 17-0

ASTROMETRY & ASTRONOMY N64-24649 17-0

THEORETICAL ASTRONOMY IN USSR N64-24652 17-0

ASTRONOMY OF STELLAR CLUSTERS N64-24657 17-0

ASTRONOMY OF VARIABLE STARS N64-24658 17-0

ASTRONOMY OF ECLIPSING VARIABLE STARS N64-24659 17-0

ASTRONOMY OF GASEOUS NEBULAS AND VARIABLE STARS

N64-24663 17-05

COSMOGONY & ASTRONOMY N64-24665 17-05

HISTORY OF ASTRONOMY IN USSR N64-24666 17-05

ASTRONOMY - ANCIENT CHINESE OBSERVATIONS OF METEOR STREAMS N64-24775 17-29

ASTRONOMICAL DATA FOR THE YEAR 1966 N64-25761 17-05

ASTRONOMY, IONOSPHERIC AND COSMIC PHYSICS, BALLOONS, ROCKETS, AND SATELLITES
NASA-TT-F-9023 N64-27137 19-29

INTERSTELLAR MATERIAL AND STRUCTURE OF GALAXIES N64-27198 19-05

DESIGN OF ADVANCED ORBITING ASTRONOMICAL OBSERVATORY N64-28119 20-32

CERAMIC FERROELECTRIC BOLOMETERS FOR ASTRONOMY N64-29384 21-15

STELLAR ASTRONOMY AND ASTROPHYSICS, ASTRONOMICAL INSTRUMENTATION, SATELLITE TRACKING, AND SEISMOLOGY N64-29945 21-05

SPACE SCIENCE CONTRIBUTIONS IN ASTROPHYSICS, GEODESY, GEOLOGY, METEOROLOGY, AND ASTRONOMY N64-30339 22-29

LUNAR GEOLOGY AND ASTRONOMY, AND ASTRONOMICAL OBSERVATIONS POSSIBLE FROM FUTURE LUNAR OBSERVATORY
JPRS-26460 N64-30455 22-05

MATHEMATICS, MECHANICS, AND ASTRONOMY
FTD-MT-64-63 N64-31742 23-23

RADAR LOCATION OF PLANETS
NASA-TT-F-8973 N64-33381 24-10

ASTROPHYSICS
ATMOSPHERIC PHYSICS, ASTROPHYSICS, COSMIC BIOLOGY, ASTRONOMY, AND ROCKET ENGINES - PAST PROGRESS AND PROSPECTIVE DEVELOPMENTS
JPRS-23195 N64-15154 07-29

RECENT ADVANCES IN ASTROGEOPHYSICS
AD-41835J N64-15276 07-1

ASTROPHYSICAL RESEARCH WITH HIGH DISPERSION INSTRUMENTS N64-15278 07-05

INFRARED TECHNIQUES IN ASTROPHYSICS N64-15288 07-05

ELECTRODYNAMICS AND PLASMA PHYSICS IN COSMOLOGY AND ASTROPHYSICS
NASA-TT-F-175 N64-17162 09-24

ASTROPHYSICS - SPECTROSCOPY, INFRARED EMISSION, AND ABSORPTION SPECTRUM OF STARS, PLANETS, AND COMETS N64-18483 10-23

PHYSICS OF PLANETARY NEBULAE N64-19333 12-05

STUDY OF MARS & MOON - METEOROLOGY & ASTROPHYSICS N64-19355 12-29

PHYSICS OF ATMOSPHERE AND METEOROLOGY N64-23868 16-01

VACUUM ULTRAVIOLET SPECTRA OF MOLECULES, GEOPHYSICAL AND ASTROPHYSICAL PROCESSES, AND SPACE EXPERIMENT INVESTIGATIONS
AFCRL-64-393 N64-24175 16-29

COMETARY ASTROPHYSICS
NASA-CR-54 N64-24826 17-29

VARIATIONS OF COSMIC RAYS AND CONNECTION WITH ASTROPHYSICAL AND GEOPHYSICAL PHENOMENA N64-25928 18-28

METEOROLOGY AND GEOASTROPHYSICS - ANNOTATED BIBLIOGRAPHY N64-26022 18-12

ASTROPHYSICS AND QUANTITATIVE COMBUSTION SPECTROSCOPY WITH REFERENCE TO RADIATIVE PROPERTIES OF HOT GASES N64-26339 18-26

GEOASTROPHYSICS AND METEOROLOGY - ANNOTATED BIBLIOGRAPHY N64-27189 19-28

PHYSICS OF DENSE MEDIA, RADIATIVE TRANSFER, AND STELLAR ASSOCIATIONS
AFCRL-64-572 N64-27447 19-05

PROBLEMS OF COSMOGONY
JPRS-25359 N64-28376 20-29

REVIEW OF COSMOGONIC THEORIES PREVALENT IN WESTERN EUROPE AND AMERICA N64-28383 20-29

PROBLEMS IN COSMOLOGY - CONFERENCE N64-28394 20-29

PHYSICS OF NEBULAS AND INTERSTELLAR MATERIAL N64-28397 20-29

QUASI-STELLAR RADIO SOURCES
NASA-RP-273 N64-28654 20-05

SPACE SCIENCE CONTRIBUTIONS IN ASTROPHYSICS, GEODESY, GEOLOGY, METEOROLOGY, AND ASTRONOMY N64-30339 22-29

IONOSPHERIC PHYSICS, RADIO PROPAGATION, AERONOMY, RADIO ASTRONOMY, AND SPACE RESEARCH N64-30765 22-12

ASYMPTOTIC FUNCTION
FOURIER TRANSFORM OF EXPONENTIAL FUNCTION FOR CASES OF ASYMPTOTIC AND CONVERGENT SERIES
LAMS-2975 N64-10188 01-20

FUNCTIONS OF REGULAR ASYMPTOTIC BEHAVIOR
MRC-436 N64-13754 05-20

SLOWLY VARYING FUNCTIONS WITH ASYMPTOTIC BEHAVIOR
MRC-432 N64-13823 04-20

ASYMPTOTIC BEHAVIOR OF LINEAR TRANSFORMATIONS OF REAL NUMBER SEQUENCES
MRC-435 N64-13824 05-20

ASYMPTOTIC EXPANSION OF SOLUTION OF WAVE EQUATION
MRC-442 N64-17624 09-20

ASYMPTOTIC PERFORMANCE CHARACTERISTICS FOR OPTIMUM BINARY DATA-HANDLING SYSTEMS
NASA-CR-56784 N64-25494 17-09

GRADUATED LOGARITHMIC FIELDS AND STABILITY - APPLICATION TO ALGORITHMS FOR ASYMPTOTIC STUDIES OF DIFFERENTIAL EQUATIONS
MRC-489 N64-31961 23-20

FIELD STRENGTH MEASUREMENTS AT HIGH FREQUENCY
E-T-R-63-6 N64-32166 23-23

ASYMPTOTIC METHOD
ASYMPTOTIC DIRECTION OF APPROACH OF VERTICALLY INCIDENT COSMIC RAYS IN GEOMAGNETIC FIELD SIMULATION - COMPUTER CALCULATION
AECL-1824 N64-10377 01-28

ASYMPTOTIC EXPANSIONS FOR BEHAVIOR OF OPTIMAL SEQUENTIAL TEST FOR SIGN OF MEAN DRIFT OF WIENER-LEVY PROCESS AND MEAN OF NORMAL DISTRIBUTION
TR-90 N64-13117 04-23

DIFFERENTIAL EQUATIONS AND ASYMPTOTIC INTEGRATION FOR SOLUTION OF THERMAL STRESS ON THIN PARABOLIC SHELL OF REVOLUTION
NASA-CR-53007 N64-13276 04-34

ASYMPTOTIC METHOD FOR SOLUTION OF SYSTEM OF TWO NONLINEAR DIFFERENTIAL EQUATIONS
FTD-TT-63-1038/1&2 N64-16391 08-22

ASYMPTOTIC DESCRIPTION OF CUSPS OF HYDROMAGNETIC EQUILIBRIUM CONFIGURATION
NYO-10435 N64-19288 11-24

ASYMPTOTIC METHOD OF OPTIMUM SIGNAL DETECTION IN

GAUSSIAN NOISE
MRC-456 N64-20337 13-20

ASYMPTOTIC THEORY OF POSITIVE COLUMN OF QUIESCENT, LONGITUDINALLY UNIFORM GAS DISCHARGE
MATT-202 N64-22198 15-11

ASYMPTOTIC FLOW PATTERN OF HYPERSONIC BODY
PIBAL-805 N64-23101 16-11

ASYMPTOTIC DISTRIBUTION OF LARGEST SAMPLE SPACING
MRC-471 N64-24337 17-20

ASYMPTOTIC SOLUTION FOR CONICAL SHELLS OF LINEARLY VARYING THICKNESS N64-24843 17-33

CONVERGENCE FACTOR OF ASYMPTOTIC METHOD FOR EXPONENTIAL INTEGRALS
DTMB-1535 N64-25691 17-20

UNIFORMLY VALID SOLUTION FOR FLOW OVER INCLINED CONE USING ASYMPTOTIC EXPANSION
AFOSR-64-1056 N64-26188 18-03

ASYMPTOTIC METHOD FOR LIFT DISTRIBUTION DETERMINATION OF SWEPTBACK WING OF FINITE SPAN
AGM-114 N64-26758 18-03

ASYMPTOTIC METHODS FOR SOLUTION OF INITIAL BOUNDARY VALUE PROBLEMS FOR LINEAR HYPERBOLIC PARTIAL DIFFERENTIAL EQUATIONS
AFCRL-64-387 N64-27439 19-20

ASYMPTOTIC METHOD TO DETERMINE NATURAL FREQUENCIES OF VIBRATION OF CONTINUOUS PLATES
N64-30423 22-33

ATHENA ROCKET
PERFORMANCE CHARACTERISTICS OF ACCELEROMETER IN TEST& AND RELATION TO CHARACTERISTICS OF MATHEMATICAL MODEL
BSD-TDR-64-70 N64-26106 18-22

ATTITUDE ERROR ANALYSIS OF SPIN STABILIZED VELOCITY PACKAGE OF ATHENA ROCKET
BSD-TDR-64-69 N64-30708 22-30

METEOROLOGICAL DATA FOR LAUNCHING OF ATHENA ROCKET
ERDA-153 N64-32312 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING ATHENA ROCKET
ERDA-167 N64-32319 23-21

INTERPOLATION TECHNIQUE FOR COMPUTING LAUNCH ANGLES FOR ATHENA ROCKET
ERDA-187 N64-32320 23-21

WIND DATA FOR BALLISTIC MISSILE REENTRY SYSTEMS - ATHENA ROCKET
ERDA-119 N64-32422 23-21

ATLAS AGENA B LAUNCH VEHICLE
KINETHEODOLITE OBSERVATIONS OF MIDAS VI AND VII, EXPLORER XVII AND XIX, ATLAS AGENA B, ECHO II, AND POLJET I SATELLITES N64-33252 24-08

EPHEMERIS OF KINETHEODOLITE OBSERVATIONS OF SATELLITES - MIDAS VII, ATLAS AGENA B, AND ABLESTAR N64-33447 24-08

ATLAS AGENA LAUNCH VEHICLE
S AGENA ROCKET

ATLAS CENTAUR LAUNCH VEHICLE
PROPULSION AND GUIDANCE & CONTROL TESTING OF ATLAS CENTAUR LAUNCH VEHICLE
NASA-CR-52697 N64-11102 02-30

ATLAS F ICBM
ATLAS F WEAPON SYSTEM RELIABILITY
BSD-TDR-64-8, VOL. 1 N64-23281 16-31

ATLAS ICBM
SA MA-5 ROCKET ENGINE
NOISE LEVEL MEASUREMENTS OF GROUND SUPPORT EQUIPMENT AT ATLAS AND TITAN I FACILITIES
AMRL-TDR-64-31 N64-24155 16-10

PERFORMANCE DATA FOR ATLAS MA-2 AND MA-5 BOOSTER SUSTAINERS, AND VERNIER ROCKET ENGINES TO OPTIMIZE VEHICLE TRAJECTORIES
R-5108-3 N64-31291 22-27

ATLAS LAUNCH VEHICLE
MERCURY-ATLAS BOOSTER RELIABILITY
NASA-CR-52665 N64-10904 02-01

DAMPING FACTORS FOR ATLAS LAUNCH VEHICLES
GD/A-63-0376 N64-14786 06-30

LONGITUDINAL OSCILLATION OF ATLAS LAUNCH VEHICLE & RELATION TO TANK PRESSURE REGULATION
GD/A-63-0712 N64-24153 16-31

MICROCRATERS IN RECOVERED FRAGMENTS FROM MERCURY ATLAS LAUNCH VEHICLES
WL-TDR-64-39 N64-29327 21-31

RADIO TRACKING SYSTEM TEST PLAN FOR FLIGHT INVESTIGATION OF REENTRY ENVIRONMENT FOR ATLAS LAUNCH VEHICLE
REPT.-64A240 N64-32149 23-00

ENDOTHERMIC FUEL FOR ATLAS ROCKET MOTOR - TETRAISOBUTYLENE
RM-1084/362 N64-32959 24-26

EFFECT ON LAUNCH PROBABILITY DUE TO ADDITION OF 30 PERCENT BY WEIGHT LIQUID FLUORINE TO 70 PERCENT LIQUID OXYGEN IN ATLAS BOOSTER
GD/A-DDB-64-024 N64-33874 24-26

ATMOSPHERE
SA EARTH ATMOSPHERE
SA EXOSPHERE
SA GAS
SA IONOSPHERE
SA OZONOSPHERE
SA SOLAR ATMOSPHERE
SA SPACE CABIN ATMOSPHERE
SA STELLAR ATMOSPHERE
SA STRATOSPHERE
SA TROPOPAUSE
SA TROPOSPHERE
SA UPPER ATMOSPHERE
CF AIR
SEMIAUTOMATIC RUPTURE MODULUS TESTER FOR VACUUM OR INERT ATMOSPHERE
NASA-RP-50 N64-10075 01-23

ATMOSPHERIC EFFECTS ON SONIC BOOM PRESSURE WAVE SHAPES
NASA-RP-79 N64-10422 01-23

STANDARD MODEL ATMOSPHERE - HISTORY, CONSTANTS, EQUATIONS, & POLYNOMIAL FIT
NASA-CR-52868 N64-11333 02-21

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NBS-TN-171 N64-12165 03-00

MARS-I SPACECRAFT FOR OUTER ATMOSPHERE STUDY & RADIO LOCATION OF MARS, VENUS, & MERCURY N64-12890 04-29

LUNAR ATMOSPHERIC MODELS - CONTRIBUTIONS FROM LUNAR SURFACE AND SOLAR WIND N64-13704 05-29

MAGNETIC DISTURBANCES IN LUNAR SELENOMAGNETIC AND GEOMAGNETIC STORMS - PLASMA WAVE STUDY
NASA-CR-55433 N64-14841 06-29

ELECTRON DENSITY PROFILES IN LOWER ATMOSPHERE DUE TO SOLAR COSMIC RAYS
CR-68 N64-15977 07-12

MECHANISM OF CONDENSATION PROCESSES IN ATMOSPHERE N64-16147 08-21

ATMOSPHERIC BOUNDARY LAYER STUDIED FROM 300-METER METEOROLOGICAL TOWER N64-16149 08-21

IL-28 AIRCRAFT EQUIPMENT AND PROBING OF THE ATMOSPHERE
FTD-TT-63-534/1&2 N64-16426 08-04

INTERACTION BETWEEN LOWER ATMOSPHERE AND SEA SURFACE - HEAT FLUX & SURFACE STRESS
REPT.-63-46 N64-16502 08-21

HIGH ENERGY PROTON OR ELECTRON BEAM FOR ATMOSPHERIC RESEARCH N64-17114 09-21

PREPARATION OF MEAN ANNUAL TROPICAL AND SUBTROPICAL ATMOSPHERES
AFCRL-63-936 N64-17320 09-21

SPATIAL DIFFUSION OF SMALL PARTICLES IN EXPONENTIAL ATMOSPHERE
GCA-TR-63-5-G N64-17799 09-12

COMPENSATING PHOTOMETER TO REGISTER AND MEASURE TRANSPARENCY OF ATMOSPHERE
FTD-MT-63-15/1&2 N64-18746 11-21

ACOUSTIC DEVICE FOR MEASURING MEAN HORIZONTAL WIND FLOW THROUGH LAYER OF ATMOSPHERE - ANEMOMETER
ERDA-125 N64-18923 11-21

TOPOGRAPHY AND ITS ISOSTATIC COMPENSATION ON FREE AIR GRAVITY ANOMALIES
REPT.-28 N64-20175 13-12

INSTRUMENTATION FOR REMOTE MICROWAVE PROBING OF ATMOSPHERE
NBS-7698 N64-20327 13-15

HANDBOOK ON HIGH ALTITUDE VERTICAL-HORIZONTAL SOUNDING OF ATMOSPHERE IN IL-28 AIRCRAFT
FTD-TT-63-619/1&2 N64-21661 15-12

ATMOSPHERIC ENERGY DEPOSITION FROM HIGH ALTITUDE GAMMA RAY SOURCES
RM-3594-PR N64-21828 15-12

ATMOSPHERIC EFFECT ON RADIATION OF ARC DISCHARGES
FTD-TT-63-19/1&2 N64-22337 15-24

FIRE HAZARD IN LOW PRESSURE OXYGEN ATMOSPHERE
REPT.-4 N64-22705 15-16

INSTRUMENTATION PROBLEMS ASSOCIATED WITH ANALYSIS OF LUNAR CRUST AND ATMOSPHERE BY MASS SPECTROMETRY
NASA-CR-56545 N64-23528 16-29

ENERGY TRANSFORMATION IN ATMOSPHERE N64-24461 17-21

EARTH ROTATION EFFECT ON RELATIVE MOTIONS IN ATMOSPHERE AND OCEANS N64-24682 17-21

DYNAMIC ANALYSIS NONROLLING BALLISTIC MISSILE RAPIDLY ASCENDING THROUGH ATMOSPHERE
LR-392 N64-24912 17-02

NEUTRAL AND IONIZED GAS DENSITIES IN LUNAR ATMOSPHERE AS FUNCTION OF SOLAR CORPUSCULAR FLUX N64-25737 17-29

LUNAR INFLUENCE ON ATMOSPHERIC AND GEOPHYSICAL PHENOMENA - BIBLIOGRAPHY N64-26023 18-12

ATMOSPHERE TRANSPARENCY MEASUREMENTS IN SUBMILLIMETER WAVE BAND
NASA-TT-F-8931 N64-27134 19-21

SELECTION OF MASS SPECTROSCOPIC SYSTEM FOR ANALYSIS OF LUNAR SURFACE AND ATMOSPHERE
NASA-CR-56552 N64-27304 19-29

GREENHOUSE EFFECT OF ARCTIC ATMOSPHERE
AFCRL-64-495 N64-27531 19-21

MOTION OF ARTIFICIAL EARTH SATELLITE IN NONSPHERICAL ATMOSPHERE
RAE-TRANS-1066 N64-27966 20-32

RADAR MEASUREMENT OF TURBULENCE IN FREE PURE ATMOSPHERE
JPRS-26086 N64-28021 20-21

REACTIVE ATMOSPHERES FOR TREATMENT OF BODY CENTERED CUBIC METALS
AD-440990 N64-28811 20-18

HYDROGEN EMISSION IN AURORAL SPECTRA - INTERACTION OF SOLAR CORPUSCULAR STREAM WITH ATMOSPHERE N64-29070 21-12

HISTORY OF LUNAR ATMOSPHERE AND POSSIBILITY OF ICE AND ORGANIC COMPOUNDS EXISTING ON MOON
NASA-TT-F-232 N64-29497 21-05

MEAN DIURNAL VARIATION OF TOPSIDE IONOSPHERE AT MID-LATITUDES USING ALOUETTE SATELLITE DATA
NASA-TM-X-55042 N64-29517 21-12

CLIMATOLOGICAL PATTERN OF MECHANICAL ENERGY DISSIPATION IN LOWER ATMOSPHERE OVER NORTHERN HEMISPHERE N64-29533 21-21

AUTOMATIC METEOROLOGICAL MEASUREMENTS IN LOWER 300-METER LAYER OF ATMOSPHERE
FTD-MT-63-184 N64-30130 21-21

VERTICAL DISTRIBUTION OF AEROSOL COMPONENT IN FREE ATMOSPHERE LIGHT SCATTERING
NASA-TT-F-8946 N64-30839 22-12

VARIATION OF ELECTRICAL POTENTIAL GRADIENT OF ATMOSPHERE FROM ANTARCTIC MEASUREMENTS N64-31765 23-21

ATMOSPHERIC PURITY FROM ELECTRICAL CHARACTERISTICS N64-31767 23-21

UNITS FOR DATA PROCESSING OF ATMOSPHERIC ELECTRIC MEASUREMENTS N64-31768 23-21

LATITUDINAL DISTRIBUTION AND VARIATION OF ATMOSPHERIC ELECTRICITY ELEMENTS N64-31770 23-21

NONADIABATIC FACTORS IN SHORT TERM FORECASTING OF LOWER ATMOSPHERE GEOPOTENTIAL FIELDS
JPRS-26792 N64-32130 23-12

INFRARED EMISSION SPECTRUM OF ATMOSPHERE AND EARTH
AFCRL-64-567 N64-32205 23-12

STATISTICAL METHODS APPLIED TO FREE ATMOSPHERE WIND CIRCULATION
FTD-TT-64-357/1&2 N64-32237 23-21

ANOMALOUS INTENSITY INCREASE OF ATMOSPHERIC OXYGEN AIRGLOW N64-32704 24-12

EVALUATION OF PHASE AND AMPLITUDE CORRELATION FUNCTIONS FOR ATMOSPHERICALLY DISTORTED WAVE FRONT
TM-127 N64-32763 24-08

FREQUENCY DISTRIBUTION OF OPTICAL SIGNAL BY ATMOSPHERIC OPTICAL DOPPLER
TM-135 N64-32766 24-08

THERMODYNAMIC STABILITY OF ATMOSPHERIC BOUNDARY LAYER FROM BALLOON OBSERVATIONS N64-32785 24-21

NUMERICAL SOLUTION OF DIFFERENTIAL EQUATIONS FOR FRONTAL MOTION IN ATMOSPHERE
NYO-1480-6 N64-32805 24-21

ATMOSPHERIC EFFECTS ON SONIC BOOMS
NASA-CR-58843 N64-32891 24-23

ABSORPTION & PHOTOIONIZATION CROSS SECTIONS OF ATMOSPHERIC GASES
NASA-CR-59021 N64-32895 24-28

LIGHT TRANSMISSION IN CLEAR ATMOSPHERE UNDER VARYING HUMIDITY, TEMPERATURE, AND FOG CONDITIONS
BRL-MEMO-1561 N64-33425 24-21

MICROMETEOROLOGICAL PREDICTIONS OF DOSAGE AND CONCENTRATION LEVELS OF CONTAMINANT MATERIAL IN LOWER ATMOSPHERE
HW-83602 N64-33584 24-21

RADIO AND RADAR STUDIES OF LUNAR AND PLANETARY IONOSPHERES, ATMOSPHERES, AND SURFACES, AND RADAR STUDIES OF SUN AND INTERPLANETARY MEDIUM
NASA-CR-59325 N64-33686 24-28

INERT ATMOSPHERE DRYBOX SYSTEM FOR HANDLING CHEMICALLY SENSITIVE MATERIALS
LA-3109 N64-33748 24-10

AEROSOL SIZE DISTRIBUTION IN ATMOSPHERE
AD-445873 N64-33766 24-21

ATMOSPHERE MODEL
ATMOSPHERE AND GEOLOGY OF MARS
JPRS-22878 N64-14146 05-29

NUMERICAL INTEGRATION OF PRIMITIVE EQUATIONS FOR ATMOSPHERIC MODEL
AFCRL-63-947 N64-16504 08-21

NUMERICAL EXPERIMENTS IN WEATHER FORECASTING INDICATING ROLE OF SKIN FRICTION IN 5-LAYER BAROCLINIC MODEL
AFCRL-64-109 N64-18192 10-21

SIMPLIFIED MODEL FOR FORMATION, MOVEMENT, AND DISSIPATION OF FAIR WEATHER CUMULUS CLOUDS
RM-113 N64-23261 16-21

RADIO EMISSION MEASUREMENTS - IONOSPHERIC MODEL OF VENUS N64-23785 16-05

EFFECT OF CLOUD COVER ON GREENHOUSE MODEL OF VENUS ATMOSPHERE N64-23895 16-29

MODEL OF UPPER ATMOSPHERE BASED ON DENSITY PROFILE FOR DERIVATION OF TEMPERATURE, MEAN MOLECULAR MASS, PRESSURE, & PARTICLE CONCENTRATION
LMSC-6-74-64-19 N64-23977 16-12

ATMOSPHERE MODEL - WATER VAPOR, CLOUDS, & PRECIPITATION DISTRIBUTIONS
REPT.-7048-105 N64-24087 16-12

STRATOSPHERIC INSTABILITY STUDY USING ATMOSPHERE MODEL N64-24460 17-21

BAROCLINIC MODEL FOR CANADIAN NUMERICAL WEATHER FORECASTING & PREDICTION N64-24466 17-21

SPECTRUM OF THERMAL CONVECTION OF BAROCLINIC FLUID IN ROTATING ANNULUS N64-24683 17-13

MOLECULAR OPTICAL THICKNESS OF LOW DENSITY MODELS OF ATMOSPHERE OF MARS
R64SD21 N64-24975 17-29

MATHEMATICAL MODEL OF ATMOSPHERIC PROCESSES FOR WEATHER FORECASTING
JPRS-25398 N64-25719 17-21

BALANCE OF INITIAL WIND AND PRESSURE FIELD DATA FOR TWO-LAYER ATMOSPHERE MODEL
AFCRL-64-506 N64-26875 18-21

PRESSURE & DENSITY SCALE HEIGHT & GRADIENTS DEFINING ATMOSPHERIC MODELS
GCA-TR-64-6-A N64-26951 18-21

BAROCLINIC STABILITY PRORERTIES OF TWO-LAYER ATMOSPHERIC MODEL
TN-5 N64-28610 20-21

RADIATIVE HEAT TRANSFER EQUATIONS FOR ATMOSPHERE MODEL SIMULATING EVOLUTION OF STATE OF ATMOSPHERE N64-28780 20-21

WEATHER FORECASTING - STOCHASTIC PROCESSES AND USE OF MODEL ATMOSPHERE
AD-601745 N64-32059 23-22

REFERENCE ATMOSPHERE FOR CAPE KENNEDY BASED ON STATISTICAL PARAMETERS OF PRESSURE-HEIGHT, TEMPERATURE, AND RELATIVE HUMIDITY AT CONSTANT PRESSURE LEVELS
NASA-TM-X-53139 N64-33569 24-21

ATMOSPHERIC ABSORPTION
METEOROLOGICAL STUDIES - SATELLITE MICROWAVE INSTRUMENTATION, RADIOMETRY, AND ABSORPTION & EMISSION CHARACTERISTICS
NASA-CR-52130 N64-10911 02-01

EMISSION & ABSORPTION OF ATOMIC OXYGEN IN UPPER ATMOSPHERE N64-10916 02-20

ATMOSPHERIC DISPERSION AND ABSORPTION OF MICROWAVES
AFCRL-63-500 N64-12286 03-09

HIGH FREQUENCY PROPAGATION OF TRANSPOLAR PULSE TRANSMISSIONS OVER ARCTIC PATHS USING IONOSPHERIC APSORPTION MEASUREMENT
UAG-R141 N64-12420 04-01

MARS AND VENUS METEOROLOGY - MARS ATMOSPHERE TIDES AND THERMODYNAMIC DIAGRAMS, AND VENUS ATMOSPHERE ABSORPTION OF SOLAR ENERGY AND TEMPERATURE PROFILE
NASA-CR-55165 N64-13066 04-29

ATMOSPHERIC ABSORPTION OF SOLAR INFRARED RADIATION RELATED TO ZENITH ANGLE, AS DETERMINED WITH INFRARED SPECTROMETER N64-15088 07-12

SPACE SCIENCES, SOLAR RADIATION, ATMOSPHERIC ABSORPTION & IONOSPHERIC STUDIES
SER. 5, ISSUE 25 N64-21383 14-12

HORIZONTAL ATMOSPHERIC TRANSMISSION MEASUREMENTS IN INFRARED SPECTRUM
DRCL-420 N64-21777 15-21

MEASUREMENT OF RADIO WAVE ABSORPTION COEFFICIENT IN ATMOSPHERE AT DECIMETER WAVELENGTH N64-23786 16-05

ABSORPTION PROCESSES IN UPPER ATMOSPHERE N64-24475 17-21

EFFECTS OF ATMOSPHERIC REFRACTION, ATMOSPHERIC ATTENUATION, AND EARTH SURFACE ON RADAR RANGE N64-24640 17-09

ATMOSPHERIC ABSORPTION OF INFRARED RADIATION IN SOLAR SPECTRUM AND ATMOSPHERIC COMPOSITION
CARDE-TR-475/64 N64-25481 17-29

ABSORPTION OF RADIO WAVES IN ATMOSPHERE BY RADIO ASTRONOMICAL METHODS N64-27166 19-09

MOLECULAR OXYGEN DENSITY AND LYMAN ALPHA ABSORPTION IN UPPER ATMOSPHERE N64-28637 20-12

CENTIMETER AND MILLIMETER RADIO WAVE ABSORPTION BY ATMOSPHERIC WATER VAPOR
NASA-TT-F-8960 N64-30853 22-12

ERRORS IN PYRANOMETER MEASUREMENTS OF ATMOSPHERIC SOLAR RADIATION ABSORPTION
FTD-TT-62-1511/1&2 N64-31590 23-20

RADIATIVE PROPERTIES OF ATMOSPHERIC GASES AND RADIATIVE ABSORPTION OF SOUND N64-32261 23-23

ATMOSPHERIC ATTENUATION OF INFRARED RADIATION OVER SHORT DISTANCES - ABSORPTION AND SCATTERING
SSD-TDR-64-167 N64-32566 23-12

ATMOSPHERIC ATTENUATION
ATMOSPHERIC ATTENUATION OF INFRARED RADIATION OVER SHORT DISTANCES - ABSORPTION AND SCATTERING
SSD-TDR-64-167 N64-32566 23-12

ATMOSPHERIC CIRCULATION
DERIVATIONS FOR SUBTROPICAL ANTICYCLONE MOTION, PSEUDO-GEOSTROPHIC RELATIVE MAGNITUDE, ABSOLUTE VORTICITY, AND CORIOLIS EQUATIONS
JPRS-18011 N64-10736 02-12

VERTICAL CIRCULATION PRODUCED BY LATENT HEAT IN A STATIC AND QUASI-GEOSTROPHIC ATMOSPHERE - CLIMATOLOGY N64-11604 03-21

MATHEMATICAL MODEL FOR SIMULATION OF EVOLUTION OF ATMOSPHERE & CIRCULATION PHENOMENA N64-13206 04-21

CIRCULATION IN NUCLEAR CLOUDS
TO-B-63-102A N64-14765 04-23

ATMOSPHERIC CIRCULATION, COMPOSITION, AND CONDENSATION - METEOROLOGY AND HYDROLOGY
JPRS-23246 N64-16145 08-23

TROPOSPHERE AND STRATOSPHERE CIRCULATION NEAR THE EQUATOR N64-16146 08-21

CLIMATE, ATMOSPHERIC STRUCTURE, AND CIRCULATION OF POLAR REGIONS N64-16148 08-21

MARS ATMOSPHERIC CIRCULATION N64-19357 12-29

OBSERVABLE CYCLES IN TIME SEQUENCE OF CIRCULATION INDICES N64-19435 12-21

METEOROLOGICAL PREDICTIONS OF ATMOSPHERIC CIRCULATION AND ENERGY BALANCE
AFCRL-64-334 N64-20092 13-21

ELECTRONIC ANEMO-FLUCTUATION METER TO MEASURE STRUCTURAL PARAMETERS OF FLOW DIRECTION IN VERTICAL AND HORIZONTAL PLANES N64-20220 13-15

MATHEMATICAL DESCRIPTION OF VECTOR WIND SPIRAL IN ATMOSPHERIC BOUNDARY LAYER
ERDAA-MET-1-64 N64-20306 13-21

METEOROLOGICAL ROCKET DATA PROFILE OF STRATOSPHERIC CIRCULATION AND TEMPERATURE STRUCTURE AT MCMURDO, ANTARCTICA N64-20673 13-12

THERMALLY DRIVEN SYMMETRIC CIRCULATIONS OF MESOSPHERE AND UPPER STRATOSPHERE
P-2847 N64-21113 14-21

ENERGY OF ATMOSPHERIC CIRCULATION
SR-1 N64-21874 15-21

ROTATIONAL SPEED OF UPPER ATMOSPHERE DETERMINED FROM CHANGES IN SATELLITE ORBITS
RAE-TN-SPACE-59 N64-22498 15-29

ATMOSPHERIC TRANSPORT AND DISPERSION OF ROCKET MOTOR COMBUSTION BY-PRODUCTS
NLPR-9 N64-24010 16-26

GENERAL CIRCULATION OF ATMOSPHERE - LONG RANGE FORECASTING N64-24412 17-21

STRATOSPHERIC CIRCULATION & RADIATION N64-24454 17-21

SEASONAL VARIATIONS IN STRATOSPHERIC CIRCULATION PATTERNS N64-24455 17-21

CUMULUS CONVECTION AND OROGRAPHIC CONVECTION CELLS - ATMOSPHERIC CIRCULATION
TR-3 N64-24947 17-21

NUMERICAL WEATHER FORECASTING - STATISTICAL ANALYSIS OF ERRORS IN LINEARIZATION OF VORTICITY EQUATION FOR DIFFERENT ATMOSPHERIC MOVEMENTS N64-27937 20-21

FORECASTING ZONAL CIRCULATION ON BASIS OF COUPLING MOMENTS - METEOROLOGY N64-29668 21-21

DAILY AND MONTHLY MEAN WEATHER MAPS OF UPPER ATMOSPHERIC CIRCULATION FOR OCT. - DEC. 1963
AD-442690 N64-30060 21-21

OZONE DISTRIBUTION, ENERGETICS OF UPPER ATMOSPHERE, AND ATMOSPHERIC CIRCULATIONS DUE TO TEMPERATURE DIFFERENCES
AFCRL-64-612 N64-31993 23-12

ATMOSPHERIC COMPOSITION
PROGRAMMER ELECTRONICS FOR ATMOSPHERIC STRUCTURE SATELLITE - EXPLORER XVII
NASA-TM-X-50997 N64-10095 01-09

PHOTOCHEMICAL DISTRIBUTION OF OZONE IN OXYGEN ATMOSPHERES
SAD-123 N64-10225 01-12

EARTH SATELLITE STUDY OF ATMOSPHERIC AND IONOSPHERIC COMPOSITION, RADIATION BELTS AND COSMIC RADIATION N64-10796 02-28

DISTRIBUTION OF VERTICAL AIR CURRENTS AND DETERMINATION OF PRECIPITATION ZONES OVER HOLLAND FOR STABLE & UNSTABLE ATMOSPHERIC STRATIFICATIONS
JPRS-19119 N64-11125 02-21

NEUTRAL HYDROGEN IN EARTH ATMOSPHERE AND INTERPLANETARY SPACE
JPRS-22331 N64-11785 03-12

CONCENTRATION OF DUST IN UPPER ATMOSPHERE AS INDICATED BY VARIATIONS IN LUMINESCENT INTENSITY N64-15458 07-23

ATMOSPHERIC AEROSOL PARTICLE SIZE DISTRIBUTION AND INFLUENCE ON LIGHT SCATTERING PROPERTIES OF ATMOSPHERE N64-15459 07-23

ATMOSPHERIC CIRCULATION, COMPOSITION, AND CONDENSATION - METEOROLOGY AND HYDROLOGY
JPRS-23246 N64-16145 08-21

CLIMATE, ATMOSPHERIC STRUCTURE, AND CIRCULATION OF POLAR REGIONS N64-16148 08-21

MICROWAVE SPECTRUM INVESTIGATION OF CHEMISTRY OF VENUS ATMOSPHERE
NASA-CR-53365 N64-17818 09-29

NATURE AND TRANSMISSION OF INFRARED RADIATION THROUGH ATMOSPHERIC COMPOSITION
SSD-TDR-63-238 N64-18250 10-23

ANALYSIS OF ATMOSPHERIC STRUCTURE DATA - COMPUTATION OF ANGULAR DISTANCE FROM SUBSOLAR POINT
GCA-TR-64-1-A N64-18372 10-12

VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE DEDUCED FROM INFRARED OBSERVATIONS
AFCRL-64-89 N64-20089 13-21

ATMOSPHERIC OZONE PROFILES, ASSOCIATED TEMPERATURE AND DEW POINT PROFILES, AND TABULATED OZONE AND RADIOSONDE DATA
AFCRL-64-30/1/ N64-20094 13-12

SPECTRAL ANALYSIS OF NEUTRAL COMPOSITION OF UPPER ATMOSPHERE N64-20501 13-12

VERTICAL DISTRIBUTION OF OZONE OVER SWITZERLAND
AFCRL-64-303 N64-21235 14-12

HYDROCARBON TRACES IN ATMOSPHERE AND LIQUID OXYGEN
FTD-TT-62-1665/1&2&4 N64-22627 15-07

OPTICAL MEASUREMENT OF CONCENTRATION OF WATER DROPLETS IN ATMOSPHERE
FTD-TT-62-1803/1&2&4 N64-22637 15-21

SPECTROSCOPIC DETERMINATION OF WATER VAPOR CONTENT IN COLUMN OF ATMOSPHERE
NASA-TT-F-212 N64-22677 15-15

SEASONAL TRANSPORT PROCESSES AND EFFECT ON DISTRIBUTION OF OZONE IN STRATOSPHERE
NASA-TN-D-2106 N64-22748 16-12

VERTICAL DISTRIBUTION OF DUST IN ATMOSPHERE & EFFECTS ON ION CONCENTRATION
AD-600940 N64-22920 16-12

VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE
NASA-TT-F-9015 N64-23131 16-12

ATMOSPHERIC COMPOSITION INSTRUMENTATION FOR TEMPERATURE DETERMINATION OF MARS ATMOSPHERE
NASA-CR-56453 N64-24043 16-15

IDENTIFICATION OF CRYSTALLINE MINERALS IN ATMOSPHERIC DUST BY X-RAY DIFFRACTION AND INFRARED ABSORPTION
ERDA-141 N64-24336 17-23

TRANSPORT THEORY AND RADIATION CHART FOR OZONE IN ATMOSPHERE N64-24476 17-21

TRANSPORT PROPERTIES OF ATMOSPHERIC OZONE IN STRATOSPHERE N64-24477 17-21

GEOGRAPHIC DISTRIBUTION OF ATMOSPHERIC OZONE N64-24479 17-21

VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE
N64-24480 17-21

EFFECTS OF FERREL DISTURBANCES & MIDDLE STRATOSPHERIC PHENOMENA ON OZONE CONCENTRATION
N64-24481 17-21

ATMOSPHERIC OZONE IN MIDDLE STRATOSPHERE
N64-24482 17-21

OBSERVATIONS & MEASUREMENTS OF ATMOSPHERIC OZONE IN ANTARCTIC STRATOSPHERE N64-24483 17-21

VALIDITY & HAZARDS OF EXTRAPOLATING THRESHOLD LIMIT VALUES OF INDUSTRIAL ATMOSPHERES TO CONTINUOUS EXPOSURE - SPACE CAPSULE CONDITIONS
N64-24614 17-16

FORMATION AND DEVELOPMENT OF EARTH CRUST, EVOLUTION OF EARTH ATMOSPHERE, & TECTONIC MOVEMENT
N64-24772 17-29

TRANSPORT OF ATMOSPHERIC DUST BY JET STREAM IN STRATOSPHERE AND TROPOSPHERE FRONTAL AREAS
N64-24802 17-21

EXPLORATION OF VENUS ATMOSPHERE - MEASUREMENT OF PRESSURE, TEMPERATURE, DENSITY, AND CONSTITUENT GASES
NASA-TN-D-1909 N64-25075 17-32

ATMOSPHERIC ABSORPTION OF INFRARED RADIATION IN SOLAR SPECTRUM AND ATMOSPHERIC COMPOSITION
CARDE-TR-475/64 N64-25481 17-29

NEUTRAL AND IONIZED GAS DENSITIES IN LUNAR ATMOSPHERE AS FUNCTION OF SOLAR CORPUSCULAR FLUX
N64-25737 17-29

SMOOTHED VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE FROM OBSERVATIONS OF INFRARED ABSORPTION AND EMISSION
AFCRL-64-88 N64-25857 18-05

CHARACTERISTICS AND COMPOSITION OF UPPER ATMOSPHERE
CARDE-TR-470/64 N64-26042 18-12

IDEAL ATMOSPHERE TRANSPARENCY COEFFICIENTS FOR REAL ATMOSPHERE TURBIDITY ESTIMATIONS
N64-26436 18-21

EVALUATION OF ATMOSPHERIC CONDITIONS DURING FLIGHT TEST OF SATURN I /SA-5/ LAUNCH VEHICLE
NASA-TM-X-53040 N64-26804 18-32

ATOMIC COLLISION PROCESSES OCCURING IN ATMOSPHERIC GASES
RM-64-928-113-M5 N64-26849 18-11

AEROLOGICAL OBSERVATORY PROCEEDINGS - METHODS AND INSTRUMENTATION FOR ATMOSPHERIC COMPOSITION STUDIES WITH EMPHASIS ON MASS SPECTROMETRY
NASA-TT-F-141 N64-26961 19-15

NEUTRAL AND IONIC COMPOSITION OF UPPER ATMOSPHERE BASED ON ROCKET SOUNDING RESULTS
N64-26962 19-12

VACUUM SYSTEM FOR MASS SPECTROMETRIC ANALYSES OF ATMOSPHERE AT PRESSURES ABOVE CRITICAL VALUE
N64-26969 19-15

MEASUREMENT OF ION CONCENTRATIONS AND MOBILITIES IN ATMOSPHERE BY ELECTRICAL SHUTTER METHOD
N64-26971 19-15

VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE, SOLAR SPECTROMETRY, AND INTERFEROMETRIC INVESTIGATION OF CELESTIAL SPECTRA
AFCRL-64-569 N64-27081 19-12

UPPER ATMOSPHERIC WIND DETERMINATION USING SODIUM AND LITHIUM VAPORS EJECTED FROM SOUNDING ROCKET
NASA-CR-58206 N64-27273 19-12

CHANGES IN UPPER ATMOSPHERIC COMPOSITION
N64-28855 20-12

ATMOSPHERIC OZONE MEASUREMENTS FOR SALISBURY, SOUTH AUSTRALIA
WRE-TN-PAD-86 N64-28866 20-12

SPACE CABIN ATMOSPHERES - PHYSICAL AND PHYSIOLOGICAL VARIABLES N64-30345 22-12

FILM TRANSPORT AND ANALOG STATISTICAL ANALYZER - STUDY OF ATMOSPHERIC PROPERTIES
N64-31850 23-12

MEASUREMENT OF ATMOSPHERE COMPONENTS OF NIGHT AIRGLOW CONTINUUM, INTENSITY INCREASE IN AIRGLOW, SPATIAL DISTRIBUTION OF H-ALPHA LINE EMISSION, HYDROXYL AND WEAK EMISSIONS IN UPPER ATMOSPHERE
NASA-TT-F-204 N64-32701 24-12

SPECTRAL DISTRIBUTION OF EXTRA-ATMOSPHERIC COMPONENTS OF NIGHT AIRGLOW CONTINUUM
N64-32702 24-12

BACKGROUND MEASUREMENTS DURING PHOTOELECTRIC OBSERVATIONS OF ATOMIC OXYGEN LINE EMISSION FOR STELLAR AND ATMOSPHERIC CONTINUUM COMPONENTS
N64-32703 24-12

WIND TUNNEL TESTS ON ENTRY BODY IN AIR AND CARBON DIOXIDE MIXTURES TO DETERMINE AERODYNAMIC EFFECTS OF ATMOSPHERE
AIAA PAPER-64-481 N64-32945 24-12

OXIDIZING, NEUTRAL, REDUCING, OR EVACUATED ATMOSPHERIC ENVIRONMENT CHARACTERISTICS OF HIGH TEMPERATURE X-RAY DIFFRACTOMETER FOR RESEARCH STUDIES
ARL-64-82 N64-33021 24-12

ATMOSPHERIC CONDITION EFFECT
CF METEOROLOGY
CF WEATHER FORECASTING
FLIGHT PATH AND ATMOSPHERIC VARIATION EFFECTS ON BOOM PROPAGATED FROM SUPERSONIC AIRCRAFT
NASA-TR-R-191 N64-15406 07-01

EFFECTS OF SOLAR ACTIVITY AND ATMOSPHERIC CONDITIONS ON LONG RANGE WEATHER FORECASTING
N64-18528 11-12

EFFECTS OF ATMOSPHERIC DATA ERRORS ON STRUCTURAL DESIGN LOADS OF LAUNCH VEHICLES
SSD-TDR-63-383 N64-20463 13-12

ATMOSPHERIC CONDITION EFFECT ON PRECIPITATION FROM CLOUD SEEDING WITH HYGROSCOPIC AND ICE NUCLEI
N64-20648 13-12

INFRARED PHYSICS - ATMOSPHERIC CONSTITUENTS EFFECTS ON INFRARED TECHNIQUES USED IN AEROSPACE SYSTEMS
REPT.-4-WGP-80-3-1 N64-21492 14-12

METEOROLOGY AND THE PILOT - ATMOSPHERIC CONDITION EFFECT ON FLIGHT PARAMETERS
FTD-TT-63-620/1&2 N64-22038 15-12

RESEARCH ON ATMOSPHERIC CONDITION EFFECTS OF STORMS - METEOROLOGY
AFCRL-64-531 N64-27534 19-12

IMAGERY PRODUCED BY LONG FOCAL LENGTH OPTICAL SYSTEMS UNDER DIFFERENT ATMOSPHERIC CONDITIONS
WRE-TN-ISD-39 N64-28027 20-12

CONTACT CORROSION UNDER LABORATORY AND NATURAL ATMOSPHERIC CONDITIONS
FTD-MT-63-124 N64-28169 20-12

LUMINOUS SPOT IN NIGHT SKY DUE TO DECOMPOSITION OF SOLAR LIGHT BY CLOUD
NASA-TT-F-8957 N64-30850 22-12

ATMOSPHERIC EFFECTS ON LASER PROPAGATION
SID-64-1894-1 N64-32083 23-12

ATMOSPHERIC AND TERRAIN EFFECTS ON ACOUSTIC PROPAGATION N64-32263 23-12

ATMOSPHERIC DENSITY
SPHERICAL SATELLITE FOR MEASURING UPPER ATMOSPHERE AIR DENSITY LAUNCHED BY SCOUT VEHICLE

N64-11779 03-32

PROBABLE UPPER AND LOWER LIMITS FOR DISTRIBUTION OF ATMOSPHERIC PRESSURE AND MASS DENSITY IN UPPER ATMOSPHERE OF MARS
AM-3885 N64-12274 03-29

RELATION BETWEEN STATISTICS FOR UPPER ATMOSPHERIC PRESSURE, TEMPERATURE, & DENSITY
NASA-RP-114 N64-13321 04-21

DIURNAL VARIATIONS OF STRATOSPHERIC DENSITY ABOVE 30 KILOMETERS USING METEOROLOGICAL SOUNDING ROCKET
ERDA-114 N64-17323 09-12

UPPER AIR DENSITY AND TEMPERATURE MEASURED BY RADAR-TRACKED FALLING SPHERES
NASA-CR-29 N64-17831 09-12

METEOROLOGY - CHARTS OF ATMOSPHERIC DENSITY DISTRIBUTION OVER NORTHERN HEMISPHERE
USAELRDL-TR-2393 N64-19374 12-23

COSMOS III AND V SATELLITE ANALYSIS OF UPPER ATMOSPHERIC DENSITY
RAE-TRANS-1060 N64-20534 13-12

INVESTIGATION OF UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V - DENSITY OF UPPER ATMOSPHERE AT HEIGHTS OF 200-230 KILOMETERS
N64-21635 15-12

MEASUREMENT OF ATMOSPHERIC DENSITY BY INSTRUMENTED NONORIENTATED SATELLITE N64-21637 15-12

EQUATIONS DESCRIBING BEHAVIOR OF DENSITY IN HYDROSTATIC ATMOSPHERES
ARL-1357-3 N64-22687 15-21

ATMOSPHERIC DENSITY VARIATION AT HEIGHTS ABOVE 200 KM
NASA-TT-F-8526 N64-23035 16-12

ATMOSPHERIC DENSITY MEASUREMENT USING MANOMETERS MOUNTED IN UNORIENTED SATELLITE
NASA-TT-F-8568 N64-23120 16-12

OPTIMUM TRAJECTORY, PERFORMANCE OF OPTICAL AND RADAR APPARATUS, AND ATMOSPHERIC DENSITY DATA FROM ARTIFICIAL EARTH SATELLITE N64-23636 16-31

SEASONAL VARIATION OF DENSITY AND TEMPERATURE CAUSED BY SOLAR ACTIVITY IN AURORAL ZONE
NASA-RP-217 N64-24560 17-12

METEOR HEIGHT DEPENDENCE ON ATMOSPHERIC DENSITY, TEMPERATURE, & SOLAR ACTIVITY
FTD-TT-62-1731/1&4 N64-25444 17-29

ORBITAL ELEMENTS FOR ACTIVE EXPERIMENT LIFETIME OF EXPLORER XVII SATELLITE TO DETERMINE ATMOSPHERIC DENSITY AT PERIGEE
NASA-RP-218 N64-25731 17-12

UPPER ATMOSPHERE SCALE HEIGHT DETERMINATION FROM VOSTOK III AND VOSTOK IV SATELLITE MEASUREMENTS OF ATMOSPHERIC DENSITY
RAE-TR-SPACE-31 N64-26496 18-12

ATMOSPHERIC DENSITIES & TEMPERATURE FROM DRAG ANALYSIS OF EXPLORER XVII SATELLITE
NASA-CR-58032 N64-26592 18-12

PRESSURE & DENSITY SCALE HEIGHT & GRADIENTS DEFINING ATMOSPHERIC MODELS
GCA-TR-64-6-A N64-26951 18-21

EXPLORER XIX SATELLITE - CONSTRUCTION, LAUNCHING ORBIT, AND MISSION TO MEASURE HIGH ALTITUDE UPPER ATMOSPHERIC DENSITY AND FLUCTUATIONS
N64-27069 19-32

AIR DENSITY METER USING ULTRAVIOLET BACKSCATTER MEASUREMENT
NASA-CR-60002 N64-29180 21-15

FALLING SPHERE MEASUREMENTS OF HIGH ALTITUDE ATMOSPHERIC DENSITY, TEMPERATURE, AND PRESSURE
AFCRL-64-554 N64-29910 21-21

GAUGES USING RADIOACTIVE ISOTOPES TO MEASURE SEDIMENT CONCENTRATION IN WATER AND TO MEASURE ATMOSPHERIC DENSITY
NYO-10220 N64-30772 22-12

LATITUDINAL VARIATION OF ATMOSPHERIC DENSITY DISTRIBUTION
NASA-RP-334 N64-31212 22-12

ATMOSPHERIC DENSITY DETERMINATION FROM SATELLITE OBSERVATIONS
AFCRL-64-543 N64-31735 23-12

DIURNAL VARIATIONS IN HORIZONTAL AND VERTICAL DISTRIBUTION OF ATMOSPHERIC DENSITY FOR ALTITUDES UP TO 90 KM
AFCRL-64-483 N64-32184 23-12

ASP METEOROLOGICAL ROCKETS AND DENSITY DATA
RR-TN-63-1 N64-32425 23-32

ATMOSPHERIC DIFFUSION
BOUNDARY CONDITIONS AT EARTH SURFACE DURING ATMOSPHERIC DIFFUSION PROCESS
E-T-G-63-26 N64-11938 03-12

DIFFUSION PARAMETERS OF GASES IN ATMOSPHERE
JPRS-22767 N64-13299 04-21

METEOROLOGY - DIFFUSION OF AIR POLLUTION AT CAPE CANAVERAL AND VANDENBERG AIR FORCE BASE
AFCRL-63-791, VOL. I N64-15485 07-21

MONTE CARLO METHOD APPLIED TO HYDROGEN DIFFUSION IN THERMOSPHERE
NASA-RP-159 N64-19149 11-12

DIFFUSION AND TURBULENCE IN UPPER ATMOSPHERE - CHEMICAL RELEASE STUDIES
NASA-CR-53933 N64-19957 12-12

STATIONARY DIFFUSION OF MATERIAL CONTINUOUSLY EMITTED FROM POINT SOURCE AND METHOD FOR CALCULATING MATERIAL CONCENTRATION IN ATMOSPHERE
N64-20203 13-21

DISTRIBUTION OF HEAVY HOMOGENEOUS ADMIXTURE FROM HIGH SOURCE IN TURBULENT DIFFUSION
N64-20204 13-21

EFFECT OF WIND CIRCULATION ON DIFFUSION OF AIR POLLUTION EMITTED FROM CONTINUOUSLY ACTIVE SOURCE
N64-20207 13-21

TIME & DISTANCE VALUES OF STATIONARY DISTRIBUTION OF CONTAMINANT CONCENTRATION FROM POINT SOURCE IN ATMOSPHERE N64-20208 13-21

DIFFUSION OF MIXTURE IN ATMOSPHERE IN PRESENCE OF CLOUDS AND PRECIPITATION N64-20210 13-21

DISPERSION OF PASSIVE PARTICLES FROM POINT SOURCE IN SURFACE LAYER OF ATMOSPHERE N64-20211 13-21

DEPENDENCE OF CHARACTERISTICS OF ATMOSPHERIC TURBULENT DIFFUSION ON DISPERSION TIME OF IMPURITY
N64-20227 13-21

DIFFUSION OF SILVER IODIDE NUCLEI IN ATMOSPHERE
REPT.-2 N64-20428 13-21

PREDICTION OF DIFFUSION DOWNWIND FROM LINE SOURCES
AFCRL-64-163 N64-22608 15-11

GEOMAGNETIC CONTROL OF DIFFUSION IN UPPER ATMOSPHERE
NASA-TM-X-55046 N64-28071 20-12

TRACER TECHNIQUE FOR LOW-LEVEL ATMOSPHERIC DISPERSION AND DEPOSITION EXPERIMENTS
BNL-859/T-343/ N64-28661 20-21

METEOROLOGICAL DATA ACQUISITION AND PROCESSING SYSTEM FOR QUANTITATIVE DIFFUSION PREDICTION AS MISSILE RANGE SAFETY TOOL -
AFCRL-63-791, VOL. II N64-31657 23-21

ATMOSPHERIC ELECTRIC FIELD
ATMOSPHERIC ELECTRIC MEASUREMENTS AT HIGH MOUNTAIN

STATIONS - CLOUDS, PRECIPITATION, AND CHARGE
JPRS-21604 N64-10200 01-12

SHORT PERIOD ELECTRIC FIELD OSCILLATIONS OF FAIR WEATHER FIELDS
AP-23 N64-14036 05-21

MAGNETIC AND ELECTRIC FIELD ALIGNED PLASMA DIFFUSION IN THE IONOSPHERE TO EXAMINE CONDITIONS FOR AMBIPOLAR DIFFUSION
NASA-RP-155 N64-18504 10-24

LIGHTNING DISCHARGE CAUSED BY STATIONARY ELECTRIC FIELD INSIDE THUNDERSTORM
USAELRDL-TR-2401 N64-28601 20-21

ATMOSPHERIC ELECTRICITY
SA LIGHTNING
CF STATIC ELECTRICITY
ATMOSPHERIC ELECTRICITY FROM ION AND ELECTRON REACTIONS WITH COSMIC RADIATION ABOVE EXCHANGE LAYER
NASA-TN-D-2092 N64-12960 04-12

MECHANISMS OF POTENTIAL AIRCRAFT FUEL TANK VENT FIRES AND EXPLOSIONS CAUSED BY ATMOSPHERIC ELECTRICITY
NASA-TN-D-2240 N64-15528 07-26

DEW POINT TEMPERATURE AND ATMOSPHERIC ELECTRICITY MEASUREMENTS IN UPPER ATMOSPHERE
N64-15665 07-21

SOLAR RADIATION AND IONOSPHERE, ATMOSPHERIC ELECTRICITY, ATMOSPHERIC NUCLEAR EXPLOSIONS, AND METEOROLOGY OF UPPER ATMOSPHERE - BIBLIOGRAPHY
AID-P-64-16 N64-19425 12-12

ATMOSPHERIC ELECTRICITY MEASUREMENTS AS POSSIBLE AID IN WEATHER FORECASTING
NWRF-29-1263-086 N64-21623 15-21

METEOROLOGICAL STUDY OF ATMOSPHERIC ELECTRICITY, PRECIPITATION, AND THUNDERSTORMS
FTD-TT-63-595/162 N64-22651 15-21

ELECTROMAGNETIC INTERFERENCE FROM FIREBALLS - ATMOSPHERIC ELECTRICITY PHENOMENA
P-2924 N64-28800 20-12

ATMOSPHERIC ELECTRICITY STUDIES AND CORRELATION WITH IONOSPHERIC IRRGULARITIES - AIRBORNE INSTRUMENTATION FOR ELECTRIC FIELD MEASUREMENTS
AFCRL-64-678 N64-33309 24-12

ATMOSPHERIC EMISSION
METEOROLOGICAL STUDIES - SATELLITE MICROWAVE INSTRUMENTATION, RADIOMETRY, AND ABSORPTION & EMISSION CHARACTERISTICS
NASA-GR-52130 N64-10911 02-01

ABSORPTION AND EMISSION SPECTRUM OF ATMOSPHERIC WATER VAPOR IN K-BAND N64-10915 02-21

EMISSION & ABSORPTION OF ATOMIC OXYGEN IN UPPER ATMOSPHERE N64-10916 02-28

OBSERVING TWILIGHT BURST OF HELIUM EMISSION WITH FABRY-PEROT STANDARD N64-21887 15-12

OBSERVATIONS OF HYDROXYL EMISSION IN AIRGLOW SPECTRUM N64-21890 15-12

HELIUM EMISSION IN UPPER ATMOSPHERE
N64-21900 15-12

ATTENUATION AND EMISSION IN EARTH ATMOSPHERE OF COMPLEX OF 60 GC/S OXYGEN LINES
REPT.-5-53 N64-23145 16-12

ATMOSPHERIC ENERGETICS
CF METEOROLOGY
ENERGY OF ATMOSPHERIC CIRCULATION
SR-1 N64-21874 15-21

STRATOSPHERIC ENERGY N64-24459 17-21

OZONE DISTRIBUTION, ENERGETICS OF UPPER ATMOSPHERE, AND ATMOSPHERIC CIRCULATIONS DUE TO TEMPERATURE DIFFERENCES
AFCRL-64-612 N64-31993 23-12

ATMOSPHERIC ENTRY
CF REENTRY
ATMOSPHERIC REENTRY PROBLEMS OF MANNED INTERPLANETARY FLIGHT N64-10043 01-12

AERODYNAMICS OF LOW-DENSITY, AUTOROTATING WINGS FOR MANNED ATMOSPHERIC REENTRY N64-10044 01-02

STATIC STABILITY AND RADIATIVE HEATING ASSOCIATED WITH MARS AND VENUS ATMOSPHERIC ENTRY
N64-10081 01-13

LARGE AMPLITUDE OSCILLATIONS OF VEHICLES ENTERING PLANETARY ATMOSPHERES N64-10082 01-02

SIMULATION APPARATUS FOR ENTRY OF LONG-RANGE BALLISTIC MISSILES INTO EARTH ATMOSPHERE
NASA-TM-X-51119 N64-10340 01-10

EFFECT OF FLANK LOSSES IN THEORY OF SPACE PROBE ENTRY UNDER HIGH MASS LOSS CONDITIONS
NASA-TN-D-2050 N64-11192 02-29

RADIATIVE & CONVECTIVE HEATING OF SHAPES ENTERING ASSUMED ATMOSPHERES OF MARS & VENUS AT SUPERORBITAL SPEEDS
NASA-TN-D-2064 N64-11903 03-13

INSTRUMENTATION EVALUATION AND OBSERVATION OF PHENOMENA ASSOCIATED WITH ATMOSPHERIC REENTRY AT ORBITAL VELOCITIES
AFSWC-TDR-63-58 N64-12937 04-30

MARS ATMOSPHERIC ENTRY STUDY OF VELOCITY, ANGLE, AND BALLISTIC COEFFICIENT
NASA-CR-53020 N64-13273 04-28

ENTRY VEHICLE DESIGN STUDY
NASA-RP-118 N64-14758 06-04

SHALLOW ATMOSPHERIC ENTRY - ANALYSIS OF REENTRY TRAJECTORY, AERODYNAMIC HEATING AND VEHICLE ATTITUDE DYNAMICS
RTD-TDR-63-3098 N64-14908 06-30

ENTRY VEHICLE VELOCITY, ENTRY ANGLE, AND ESTIMATED ATMOSPHERIC VARIATIONS OF PARACHUTE RECOVERY SYSTEM FOR MARS ENTRY VEHICLE N64-15262 07-24

VELOCITY LIMITATIONS ON VEHICLES ENTERING ATMOSPHERE WITH HIGH MASS LOSS
NASA-TR-R-162 N64-16931 09-13

AERODYNAMIC AND ROCKET BRAKING OF BLUNT NONLIFTING VEHICLES DURING ATMOSPHERIC ENTRY AT HYPERSONIC SPEEDS
NASA-TN-D-2239 N64-18731 11-30

TEMPERATURE CONTROL SYSTEM FOR MARS ATMOSPHERE ENTRY VEHICLE
NASA-CR-56178 N64-20743 13-13

GUIDANCE OF LIFTING VEHICLES ONTO REFERENCE TRAJECTORY DURING ATMOSPHERIC ENTRY
NASA-TR-R-151 N64-21429 14-30

THERMAL DESIGN AND EVALUATION OF ATMOSPHERIC ENTRY HEAT SHIELDS
AIAA PAPER-64-259 N64-22093 15-13

GUIDANCE OF MANNED LIFTING VEHICLE DURING ATMOSPHERIC ENTRY MISSION AT SUPERCIRCULAR SPEEDS
SSD-TDR-64-85 N64-22296 15-32

AERODYNAMIC PROBLEMS IN HIGH SPEED ATMOSPHERIC ENTRY, EXIT, AND CRUISE
AIAA PAPER-64-514 N64-23232 16-04

AERODYNAMIC HEATING OF ATMOSPHERIC REENTRY VEHICLES
NASA-TM-X-54056 N64-23266 16-13

CENTRIFUGALLY STABILIZED STRUCTURE FOR ATMOSPHERIC ENTRY FROM SPACE - AERODYNAMIC FORCES ON ROTOR BLADE ELEMENT DEVELOPED USING NEWTONIAN MOMENTUM CONCEPT

NASA-CR-69 N64-23670 16-02

COMMUNICATION BLACKOUT OF BLUNT BODY DURING ENTRY INTO MARS ATMOSPHERE
NASA-CR-56459 N64-24039 16-29

TUMBLING MOTION OF AERODYNAMICALLY STABLE BODY ON ATMOSPHERIC ENTRY
NASA-TR-R-203 N64-24075 16-29

RADIATIVE ENERGY TRANSFER ON ENTRY INTO MARS AND VENUS ATMOSPHERES
NASA-CR-56554 N64-24106 16-13

ENTRY VEHICLE PROBLEMS RELATED TO MARS ENTRY OF UNMANNED PROBE AND TO EARTH ENTRY ABOVE ESCAPE SPEED
AIAA PAPER-64-528 N64-24169 16-27

CAPABILITY OF LATERAL CONTROL SYSTEM TO PROVIDE AERODYNAMIC HEADING-ANGLE CONTROL OF VEHICLE HAVING MAXIMUM LIFT-DRAG RATIO DURING REENTRY
NASA-TN-D-2343 N64-24588 17-05

TECHNIQUES FOR EVALUATING HEAT PROTECTION MATERIALS FOR ATMOSPHERIC ENTRY VEHICLES
R64SD24 N64-26562 18-10

MANUAL CONTROL OF APOLLO SPACECRAFT DURING ATMOSPHERIC ENTRY
NASA-TN-D-2467 N64-27946 20-14

ORBITAL TRANSFER DURING ATMOSPHERIC REENTRY - AXISYMMETRIC OSCILLATIONS OF CYLINDRICAL SHELLS IN SUPERSONIC GAS FLOW
FTD-MT-63-220 N64-28171 20-23

TRANSFER OF SPACE VEHICLE FROM BRAKING ELLIPTICAL ORBIT TO CIRCULAR SATELLITE ORBIT
N64-28172 20-29

RADIATIVE HEAT TRANSFER ON ATMOSPHERIC ENTRY TO MARS OR VENUS - DISSOCIATION RATE OF CARBON MONOXIDE AT HIGH TEMPERATURES
NASA-CR-58574 N64-29185 21-24

MARTIAN ATMOSPHERE PROFILE FROM MOTION OF VEHICLE LAUNCHED FROM ENTRY FLYBY BUS N64-31091 22-32

WIND DATA FOR BALLISTIC MISSILE REENTRY SYSTEMS - ATHENA ROCKET
ERDA-119 N64-32422 23-21

ANGLE-OF-ATTACK CONVERGENCE OF SPINNING BODIES ENTERING PLANETARY ATMOSPHERES AT LARGE INCLINATIONS TO FLIGHT PATH
NASA-TR-R-210 N64-32435 23-23

WIND TUNNEL TESTS ON ENTRY BODY IN AIR AND CARBON DIOXIDE MIXTURES TO DETERMINE AERODYNAMIC EFFECTS OF ATMOSPHERE
AIAA PAPER-64-481 N64-32945 24-02

ATMOSPHERIC HEATING
ATMOSPHERIC HEATING IN AURORAL ZONES - ANALYSIS OF ATMOSPHERIC DRAG OF INJUN III SATELLITE
NASA-CR-52456 N64-10136 01-02

ATMOSPHERIC IONIZATION
HYGIENE & SANITATION - EFFECT OF LOW CONCENTRATION OF FLUORINE, SANITARY INDICES FOR WATER RESERVOIR, AND AIR IONIZATION
APRS-19067 N64-11064 02-16

MASS SPECTROMETRIC AND MICROWAVE MEASUREMENTS OF ATMOSPHERIC ION REACTIONS
GA-4431 N64-12170 03-23

IONIZATION OF UPPER ATMOSPHERE BY SHORT-WAVE SOLAR RADIATION
E-T-R-63-1 N64-12230 03-28

REACTION RATE OF FORMATION AND DESTRUCTION OF ATMOSPHERIC IONIZATION - SYSTEM OF TIME-DEPENDENT REACTION-RATE EQUATIONS
AFCRL-63-711 N64-13084 04-12

METHODS FOR REMOVING FREE ELECTRONS FROM IONIZED & DISSOCIATED ATMOSPHERE
NRA-113-400 N64-13658 04-05

DETECTION OF SINGLY IONIZED NITRIC OXIDE IN E-REGION OF IONOSPHERE BY GROUND BASED RADAR MASS SPECTROMETRY
AFCRL-63-795 N64-15807 07-21

FORMATION OF F-1 AND F-2 LAYERS - ATMOSPHERIC IONIZATION AND RECOMBINATION COEFFICIENT
RPU-513 N64-16932 09-12

RADIO PROPAGATION EFFECTS AFTER HIGH ALTITUDE NUCLEAR BURST DUE TO ABNORMAL IONIZATION
RM-4037-PR N64-20297 13-08

DEIONIZATION OF HIGHLY IONIZED ATMOSPHERE - CHEMICAL KINETICS CONTROLLING ELECTRON DENSITY DECAY FOLLOWING NUCLEAR EXPLOSION
AFCRL-64-496 N64-28546 20-07

COLUMNAR AIR MASS BETWEEN PAIRS OF POINTS IN ATMOSPHERE AND VOLUME PRODUCTION RATE OF ION PAIRS DUE TO GAMMA RAYS FROM DECAYING FISSION DEBRIS
RM-4142 N64-28820 20-23

IONIZATION AND DEIONIZATION IN LOWER IONOSPHERE - GEOPHYSICAL OBSERVATIONS AND LABORATORY MEASUREMENTS
AD-418467 N64-29315 21-12

EFFECTS OF CESIUM AND SODIUM IN ABLATING SURFACE OF POINTED CONES ON AIR IONIZATION IN BOUNDARY LAYER
R64SD22 N64-30658 22-11

ATMOSPHERIC CHEMILUMINESCENCE OF HYDROCARBON MISSILE EXHAUST - FIREFLY PROJECT
N64-31399 23-12

CHEMICAL IONIZATION REACTIONS OF MISSILE EXHAUST PRODUCTS AND ATMOSPHERIC CONSTITUENTS - FIREFLY PROJECT
N64-31400 23-12

ATMOSPHERIC NOISE
ATMOSPHERIC RADIO NOISE AT BYRD STATION, ANTARCTICA - MEASUREMENT, SOURCES, AND ABSORPTION PHENOMENA
RAD-TR-63-46 N64-16850 08-12

ATMOSPHERIC ACOUSTIC STRUCTURE DETERMINATION FROM ROCKET SOUNDING DATA
ERDA-127 N64-18356 10-21

VERY LOW FREQUENCY ATMOSPHERIC NOISE IN ARCTIC
N64-19690 12-12

ATMOSPHERIC NOISE AT VERY LOW FREQUENCIES FOR VARIOUS GEOGRAPHIC LOCATIONS
AD-428273 N64-19976 12-12

INDIVIDUAL DIFFERENCE IN TRANSCRIBING VOICE RADIO MESSAGES EMBEDDED IN ATMOSPHERIC NOISE
TRN-137 N64-21856 15-08

ATMOSPHERIC RADIO NOISE MEASUREMENTS
LAFE-13 N64-22013 15-08

DISTRIBUTION OF PULSE DURATION IN POISSON AND ATMOSPHERIC NOISE
N64-27183 19-12

CONFERENCE ON ATMOSPHERIC ACOUSTIC PROPAGATION
AD-449237 N64-32254 23-23

ACOUSTIC STUDY OF PIPE ARRAY FOR REDUCTION OF WIND NOISE
N64-32257 23-08

INFRASONIC PRESSURE MICROPHONE WITH SOLION TRANSDUCER FOR STUDYING ATMOSPHERIC ACOUSTICS
N64-32258 23-15

ATMOSPHERIC PRESSURE
SA ISOBAR
FACILITIES EMPLOYING BAROMETRIC PRESSURE DEVICES FOR CALIBRATION OF AIRCRAFT ALTIMETERS
N64-11423 02-15

KEY DAY FOR PREDICTING VARIATIONS IN PRESSURE - SURFACE PRESSURE PERSISTANCE CORRELATION WITH SOLAR ACTIVITY N64-11724 03-21

PROBABLE UPPER AND LOWER LIMITS FOR DISTRIBUTION OF ATMOSPHERIC PRESSURE AND MASS DENSITY IN UPPER ATMOSPHERE OF MARS
RM-3885 N64-12274 03-29

FORECASTING ATMOSPHERIC PRESSURE FIELDS USING HYDRODYNAMIC EQUATIONS
JPRS-22648 N64-12903 04-21

RELATION BETWEEN STATISTICS FOR UPPER ATMOSPHERIC PRESSURE, TEMPERATURE, & DENSITY
NASA-RP-114 N64-13321 04-21

WEATHER FORECASTING - FLUCTUATION & DEFORMATION OF HIGH-ALTITUDE PLANETARY FRONTAL ZONES, COMPUTING ALTITUDE OF 500-MILLIBAR SURFACE
JPRS-22741 N64-13467 05-21

FLUCTUATIONS OF HIGH-ALTITUDE PLANETARY FRONTAL ZONES DURING NATURAL SYNOPTIC PERIODS - WEATHER FORECASTING N64-13468 05-21

LONG RANGE WEATHER FORECASTING - COMPUTING ALTITUDE OF 500-MILLIBAR SURFACE N64-13469 05-21

ERROR ANALYSIS FOR MEASUREMENTS MADE WITH RADIOSONDE ANEROID BAROMETER
RSIC-110 N64-13781 05-15

MOTION PICTURE STUDY OF BOILING FLOW IN VERTICAL, RECTANGULAR CHANNEL AT ATMOSPHERIC PRESSURE
NYO-9650 N64-16024 07-13

DIFFERENTIAL BAROGRAPH FOR MEASURING CONTINUOUS CHANGES IN ATMOSPHERIC PRESSURE
FTD-TT-63-535/1&2&4 N64-16482 08-15

BAROMETRIC ALTIMETERS AND PRESSURE-HEAD SPEED INDICATORS N64-17543 09-15

SYNOPTIC METEOROLOGY - WIND CIRCULATION AND ATMOSPHERIC PRESSURE IN UPPER ATMOSPHERE
NASA-TM-X-51597 N64-19610 12-21

OPEN-CIRCUIT VOLTAGES OF MOLTEN-SALT ELECTROLYTES FOR ENERGY CONVERSION - EFFECT OF ATMOSPHERIC PRESSURE CHANGES ON CELL VOLTAGE
NASA-CR-56014 N64-20647 13-21

TIME-OF-FLIGHT MASS SPECTROMETER FOR PLASMA JET STUDY AT ATMOSPHERIC PRESSURE
ASD-TDR-62-644, PT.1 N64-21711 15-24

ATMOSPHERIC PRESSURE WAVE GENERATED BY NUCLEAR EXPLOSION
REPT.-5033-1-T N64-24201 16-23

RELATIONSHIP BETWEEN INSPIRED OXYGEN CONCENTRATION AND AIRCRAFT CABIN ATMOSPHERIC PRESSURE IN HIGH ALTITUDE FLIGHT
FPRC-1214 N64-25848 18-16

COSMIC RAY DEPENDENCY ON ATMOSPHERIC PRESSURE - BAROMETRIC COEFFICIENT OF NEUTRON COMPONENT N64-25936 18-28

INTENSITY OF HIGH ENERGY COSMIC RAY MUONS IN EARTH ATMOSPHERE
NASA-RP-270 N64-26407 18-28

NEUROLOGIC ASPECTS OF HIGH BAROMETRIC PRESSURE PHENOMENA AND EFFECT OF ATMOSPHERIC CONTAMINANTS UPON NERVOUS SYSTEM ACTIVITY
AD-600259 N64-27693 19-16

AIR DENSITY CHANGE AT SEA LEVEL COMPUTED FROM ISOBARIC LEVELS OF ATMOSPHERE N64-27940 20-21

PATHOPHYSIOLOGY OF PULMONIC TOXICITY IN RATS BREATHING PURE OXYGEN AT REDUCED ATMOSPHERIC PRESSURE
NADC-ML-6403 N64-27953 20-16

PHYSIOLOGICAL REQUIREMENTS FOR PROTECTION AGAINST ATMOSPHERIC PRESSURE CHANGES
FPRC/MEMO-201 N64-28698 20-16

INFLUENCE OF GAS STREAMS AND MAGNETIC FIELDS ON ELECTRIC DISCHARGES - ARCS AT ATMOSPHERIC PRESSURE IN ANNULAR GAPS
ARC-CP-743 N64-29236 21-24

DISTRIBUTION OF PRESSURE-FIELD COUPLING MOMENTS IN STANDARD LAYER OF ATMOSPHERE N64-29669 21-21

FALLING SPHERE MEASUREMENTS OF HIGH ALTITUDE ATMOSPHERIC DENSITY, TEMPERATURE, AND PRESSURE
AFCRL-64-554 N64-29910 21-21

NONADIABATIC PROCESSES IN DEVELOPMENT OF LARGE SCALE ATMOSPHERE PRESSURE FORECASTING
JPRS-26639 N64-30875 22-21

THERMODYNAMIC PROPERTIES OF WATER VAPOR UNDER LOW ATMOSPHERIC TEMPERATURES AND PRESSURES - HYGROMETRIC TABLES
RM-4244-PR N64-32177 23-21

ATMOSPHERIC RADIATION
ATMOSPHERIC GAMMA RADIATION & CHLORINE FOR WATER PURIFICATION AND SANITATION
JPRS-21975 N64-10386 01-14

SATELLITE INSTRUMENTATION PROBLEMS IN MEASURING ATMOSPHERIC RADIATION USING MICROWAVE RADIOMETERS N64-10919 02-13

DISCREPANCY IN RADIOMETRIC MEASUREMENTS DUE TO ATMOSPHERIC RADIATION N64-10921 02-20

RADIATION BALANCE AND VERTICAL DISTRIBUTION IN ATMOSPHERE N64-15409 07-21

OPTICAL PROPERTIES OF EARTH ATMOSPHERE, ATMOSPHERIC RADIATION, AND ACTINOMETRY
JPRS-23547 N64-16542 08-21

INTERCALIBRATION OF NETWORK SYSTEMS EMPLOYED IN MONITORING FISSION PRODUCT RADIOACTIVITY IN ATMOSPHERE
NRL-6025 N64-17374 09-21

SATELLITE MEASUREMENTS OF ATMOSPHERIC RADIATION DURING TWILIGHT HOURS - DEVELOPMENT OF INFRARED SATELLITE TRACKING RADIOMETER
AFCRL-64-302 N64-21240 14-12

AIR RADIATION FROM NONEQUILIBRIUM WAKES OF BLUNT HYPERSONIC REENTRY VEHICLES
RM-4071-ARPA N64-22616 15-11

STRATOSPHERIC AND TROPOSPHERIC THERMAL RADIATION FIELDS IN INFRARED REGION OF SPECTRUM
NASA-TT-F-8015 N64-22933 16-12

ABSORPTION OF ATMOSPHERIC THERMAL RADIATION IN OZONE BAND REGION
NASA-TT-F-207 N64-23029 16-12

STRATOSPHERIC CIRCULATION & RADIATION N64-24454 17-21

CLIMATOLOGY - RELATION BETWEEN ATMOSPHERIC RADIATION AND CLOUDINESS N64-24789 17-21

EQUATIONS FOR CALCULATION OF TOTAL RADIATION VS TOTAL CLOUDINESS N64-24790 17-21

TOTAL ATMOSPHERIC RADIATION CALCULATIONS FROM CLOUD DATA USING ACTINOMETRIC INSTRUMENTS N64-24791 17-21

PARTICLES AND RADIATION IN MARS ATMOSPHERE
RM-222 N64-32156 23-29

SPECTROGRAPHIC OBSERVATION FROM AIRCRAFT OF UPPER ATMOSPHERIC RADIATION DURING SOLAR ECLIPSE N64-32710 24-12

ATMOSPHERIC REFRACTION
SA LIGHT TRANSMISSION
CF OPTICS
DETERMINATION OF ATMOSPHERIC REFRACTIVE INDEX FOR

ULTRAHIGH FREQUENCY RADIO WAVES USING AEROLOGICAL PROBES
JPRS-22198 N64-11418 02-12

ATMOSPHERIC REFRACTIVITY COMPUTATION USING SKEW TEMPERATURE-LOG PRESSURE DIAGRAM
AD-422637 N64-12244 03-21

ATMOSPHERIC REFRACTIVE INDEX INHOMOGENITIES AS FUNCTION OF SIGHTLINE ELEVATION
OID-35 N64-13090 04-23

CYCLIC ERROR IN MISSILE FREE-FALL DATA DUE TO ATMOSPHERIC REFRACTION N64-15322 07-20

INSTRUMENTATION ERRORS DUE TO ATMOSPHERIC REFRACTION N64-15323 07-15

COMPUTATION OF JOINT PROBABILITY DENSITY FUNCTION OF APPARENT RADIANCES IN SEVERAL SPECTRAL REGIONS
LAS-TR-199-49 N64-16957 09-12

ASTRONOMICAL OBSERVATIONS IN NEW MEXICO, AND INSTRUMENTATION DESIGNED TO REDUCE EFFECTS OF ATMOSPHERE-INDUCED IMAGE ABERRATIONS
AFCRL-63-217 N64-17857 10-23

EQUATIONS FOR DETERMINATION OF EFFECTS OF ATMOSPHERIC REFRACTION ABOUT EARTH SURFACE N64-19082 11-08

ATMOSPHERIC REFRACTION EFFECTS IN MICROWAVE MEASUREMENTS OF RANGE AND AZIMUTH
NBS-8231 N64-20431 13-08

ATMOSPHERIC AND STELLAR REFRACTION MEASUREMENTS
FTD-TT-62-1343/1&2 N64-23460 16-01

TWINKLING OF STARS AND DETERMINATION OF ATMOSPHERIC INDEX OF REFRACTION N64-23461 16-12

EFFECTS OF ATMOSPHERIC REFRACTION, ATMOSPHERIC ATTENUATION, AND EARTH SURFACE ON RADAR RANGE N64-24640 17-09

ATMOSPHERIC OPTICS ABOARD ARTIFICIAL SATELLITES
NASA-TT-F-8912 N64-25540 17-05

CORRECTION OF NEAR-HORIZONTAL RADAR ELEVATION ANGLES FOR ATMOSPHERIC REFRACTION
PMR-TM-64-6 N64-28794 20-08

TROPOSPHERIC REFRACTION PROBLEMS FOR ELECTROMAGNETIC SYSTEMS N64-29116 21-08

SNELL LAW AND GEOMETRICAL OPTICS USED TO CALCULATE ERRORS IN RADAR POSITION OBSERVATIONS DUE TO ATMOSPHERIC REFRACTION
USAERDAA-MET-7-64 N64-29550 21-08

LUMINOUS SPOT IN NIGHT SKY DUE TO DECOMPOSITION OF SOLAR LIGHT BY CLOUD
NASA-TT-F-8957 N64-30850 22-28

MISSILE POSITION AND ATMOSPHERIC REFRACTIVE INDEX ESTIMATION BY LEAST SQUARES METHOD
ERDA-43 N64-31327 22-08

ATMOSPHERIC SCATTERING
SA LIGHT SCATTERING
SOUND WAVE SCATTERING BY TURBULENT ATMOSPHERE
FTD-TT-63-441/1&2&4 N64-16369 08-23

CLOUD SCATTERING IN INFRARED AND CLEAR ATMOSPHERIC SCATTERING
LAS-TR-199-45 N64-16572 08-21

INTEGRATING AND POLAR NEPHELOMETER FOR ATMOSPHERIC SCATTERING MEASUREMENTS IN ULTRAVIOLET REGION
TDR-269/4230-20/-5 N64-18370 10-12

POLARIZATION AND SCATTERING EFFECTS ON ATMOSPHERIC OPTICAL RADIATION TRANSMISSION
AFCAL-64-126 N64-18585 11-23

ATMOSPHERIC LIGHT SCATTERING AND JET FUEL CONTAMINATION N64-19176 11-01

TRANSMISSION OF LIGHT SIGNALS BEYOND GEOMETRICAL HORIZON - ATMOSPHERIC SCATTERING N64-19178 11-23

OPTICALLY THIN SCATTERING LAYER IN VENUS ATMOSPHERE N64-20899 14-29

INTENSITY OF ATMOSPHERIC LIGHT SCATTERING IN ULTRAVIOLET REGION WITH ABSORPTION BY OZONE AND OXYGEN
LAS-TR-199-48 N64-21560 15-12

RADIATIVE TRANSFER IN FINITE HOMOGENEOUS ATMOSPHERES WITH ANISOTROPIC SCATTERING - UNIQUENESS PROBLEM FOR CHANDRASEKHAR EQUATIONS
RM-3909-PR N64-21910 15-23

ATMOSPHERIC SCATTERING OF GEOMAGNETICALLY TRAPPED ELECTRONS FROM STARFISH HIGH ALTITUDE NUCLEAR EXPLOSION N64-24239 17-12

ACTINOMETRIC OBSERVATIONS OF RADIATIVE HEAT TRANSFER, SOLAR RADIATION, AND ATMOSPHERIC SCATTERING N64-24780 17-15

INFLUENCE OF AEROSOL COMPONENT ON TOTAL ATMOSPHERIC LIGHT SCATTERING
USAELRDL-TR-2411 N64-28278 20-12

CORRELATION BETWEEN ATMOSPHERIC BACKSCATTERING AND METEOROLOGICAL VISUAL RANGE
USAEL-TR-2481 N64-29795 21-21

SKY BRIGHTNESS MEASUREMENTS IN VISUAL AND ULTRAVIOLET REGIONS OF SPECTRUM - MULTIPLE LIGHT SCATTERING
NASA-TT-F-8955 N64-30848 22-28

ATMOSPHERIC TEMPERATURE
SA ISOTHERM
INVERSION PROCESS BASED ON THERMAL RADIATION SENSING IN OXYGEN ABSORPTION BAND FOR TEMPERATURE MEASUREMENT N64-10913 02-12

INVERSION TECHNIQUE FOR MEASUREMENT OF ATMOSPHERIC TEMPERATURE BY RADIOMETRY N64-10914 02-21

EFFECT OF RADIATIVE ATMOSPHERIC TEMPERATURE ON RADIOMETRIC DETERMINATION OF APPARENT TEMPERATURE OF MATERIALS N64-10922 02-12

RELATION BETWEEN STATISTICS FOR UPPER ATMOSPHERIC PRESSURE, TEMPERATURE, & DENSITY
NASA-RP-114 N64-13321 04-21

RELATIONSHIP OF AIR TEMPERATURE AND BAD WEATHER PERIODS
RSIC-118 N64-15125 07-21

RADIATIVE DIVERGENCE AND EFFECT ON TEMPERATURE PROFILE AND DYNAMICS OF ATMOSPHERE N64-15408 07-21

ERRORS IN ATMOSPHERIC TEMPERATURE STRUCTURE SOLUTIONS FROM REMOTE RADIOMETRIC MEASUREMENTS
NASA-CR-53120 N64-16755 08-23

UPPER ATMOSPHERE TEMPERATURE DETERMINATIONS BY FABRY-PEROT PRESSURE SCANNING INTERFEROMETER FROM EMISSION OF OXYGEN ATOMS N64-17005 09-12

RADIATIVE EQUILIBRIUM DISTRIBUTION OF TEMPERATURE IN VENUS ATMOSPHERE AND AVERAGE ANNUAL RADIATION BUDGET AT TOP OF MARTIAN ATMOSPHERE
NASA-CR-53285 N64-17593 09-29

NEW DUAL-GAS EQUATION INVOLVING NUMBER DENSITIES FOR ATMOSPHERIC TEMPERATURE - MASS SPECTROMETRY
GCA-TR-63-9-A N64-17854 10-12

ATMOSPHERIC OZONE PROFILES, ASSOCIATED TEMPERATURE AND DEW POINT PROFILES, AND TABULATED OZONE AND RADIOSONDE DATA
AFCRL-64-30(I) N64-20094 13-12

STATIONARY AUTOMATICALLY-BALANCING RECORDING TEMPERATURE-GRADIENT METER FOR RECORDING VERTICAL DISTRIBUTION OF TEMPERATURE AT VARYING ALTITUDES N64-20216 13-15

METEOROLOGICAL ROCKET DATA PROFILE OF STRATOSPHERIC CIRCULATION AND TEMPERATURE STRUCTURE AT MCMURDO, ANTARCTICA
N64-20673 13-12

ATMOSPHERIC TEMPERATURE MEASUREMENT
USAELRDL-TR-2405 N64-20854 14-15

INSTRUMENTED HIGH ALTITUDE SOUNDING PROJECTILE FOR ATMOSPHERIC TEMPERATURE AND WIND VELOCITY DETERMINATION
NOLTR-63-272 N64-21181 14-32

MEASUREMENTS OF ATMOSPHERIC TEMPERATURE BY INSTRUMENTED SATELLITE N64-21638 15-12

VARIATION IN AMOUNT OF ATMOSPHERIC OZONE AND RELATIONSHIP TO TEMPERATURE CHANGES IN STRATOSPHERE
NASA-TT-F-9016 N64-22944 16-12

TEMPERATURE MEASUREMENT OF ATMOSPHERE WITH SATELLITE-BORNE INSTRUMENTS
NASA-TT-F-8569 N64-23121 16-12

DISTRIBUTION OF TEMPERATURE FLUCTUATION WITH HEIGHT IN ATMOSPHERIC GROUND LAYER
N64-23169 16-12

SEASONAL VARIATION OF DENSITY AND TEMPERATURE CAUSED BY SOLAR ACTIVITY IN AURORAL ZONE
NASA-RP-217 N64-24560 17-12

METEOR HEIGHT DEPENDENCE ON ATMOSPHERIC DENSITY, TEMPERATURE, & SOLAR ACTIVITY
FTD-TT-62-1731/1&4 N64-25444 17-29

ATMOSPHERIC DENSITIES & TEMPERATURE FROM DRAG ANALYSIS OF EXPLORER XVII SATELLITE
NASA-CR-58032 N64-26592 18-12

UPPER ATMOSPHERE HEATING IN AURORAL ZONES DURING GEOMAGNETIC PERTURBATIONS - ANALYSIS OF ATMOSPHERIC DRAG DATA FROM INJUN III SATELLITE
N64-28725 20-32

VARIATIONS IN UPPER ATMOSPHERIC TEMPERATURE MEASUREMENTS DURING GEOMAGNETIC STORMS AND QUIET INTERVALS
NASA-CR-56882 N64-28974 20-12

FALLING SPHERE MEASUREMENTS OF HIGH ALTITUDE ATMOSPHERIC DENSITY, TEMPERATURE, AND PRESSURE
AFCRL-64-554 N64-29910 21-21

SOUND PROPAGATION IN SHADOW ZONE AND MEASUREMENTS OF SOUND ADSORPTION & VELOCITY AND HIGH ATMOSPHERE TEMPERATURE
AD-447807 N64-32120 23-23

THERMODYNAMIC PROPERTIES OF WATER VAPOR UNDER LOW ATMOSPHERIC TEMPERATURES AND PRESSURES - HYGROMETRIC TABLES
RM-4244-PR N64-32177 23-21

ATMOSPHERIC TIDE
OBSERVATION OF DRIFTS OF METEORIC TRACES TO DETERMINE ATMOSPHERIC CURRENTS AT 80 TO 100-KM
FTD-TT-63-845/1&2 N64-12843 04-24

ATMOSPHERIC TIDES & ASSOCIATED MAGNETIC EFFECTS
NASA-CR-55160 N64-13374 04-21

NONADIABATIC MODEL OF ATMOSPHERIC MOVEMENT AND SATELLITE RADIATION MEASUREMENTS FOR WEATHER FORECASTING
JPRS-23129 N64-14921 06-21

DYNAMIC THEORY OF ATMOSPHERIC TIDES AND ASSOCIATED MAGNETIC EFFECTS N64-24971 17-12

THEORY OF ATMOSPHERIC TIDES FOR EARTH APPLIED TO MARS ATMOSPHERE
NASA-CR-97 N64-28316 20-12

ATMOSPHERIC TURBULENCE
ATMOSPHERIC OBSERVATIONS AND TURBULENCE DURING IGY
JPRS-19275 N64-10817 02-12

SODIUM VAPOR TRAIL STUDY OF TURBULENCE IN THE UPPER ATMOSPHERE
NASA-CR-52751 N64-11298 02-11

METEOROLOGY & HYDROLOGY - CLOUD STRUCTURE & ATMOSPHERIC TURBULENCE
JPRS-20146 N64-12785 04-21

ATMOSPHERIC TURBULENCE - MODERATE & SEVERE AIRPLANE BUFFETING AT FLIGHT ALTITUDE
N64-12786 04-21

TURBULENT AIR CURRENT CHARACTERISTICS OF FIRST 42 METERS OF ATMOSPHERE
ERDA-100 N64-13637 05-21

MATHEMATICAL EVALUATION OF INFLUENCE OF DYNAMIC TURBULENCE ON SOUND AUDIBILITY IN ATMOSPHERE
RSIC-121 N64-15739 07-23

SOUND WAVE SCATTERING BY TURBULENT ATMOSPHERE
FTD-TT-63-441/1&2&4 N64-16369 08-23

DETERMINATION OF ATMOSPHERIC TURBIDITY IN VARIOUS DIRECTIONS BY POLARIMETRY
FTD-TT-63-536/1&2&4 N64-16376 08-21

ATMOSPHERIC TURBULENCE EFFECT ON PILOTS AND AIRCRAFT AT LOW ALTITUDE
AGARD-441 N64-17541 09-11

AERODYNAMIC CHARACTERISTICS OF ATMOSPHERIC TURBULENCE AT VERY LOW ALTITUDES
AGARD-440 N64-19093 11-21

PROCESSING METHOD FOR REMOVING EFFECTS OF ATMOSPHERIC TURBULENCE FROM SIGNALS IN SYNTHETIC APERTURE RADAR SYSTEMS - MATHEMATICAL MODEL
R-179 N64-19404 12-08

DIFFUSION AND TURBULENCE IN UPPER ATMOSPHERE - CHEMICAL RELEASE STUDIES
NASA-CR-53933 N64-19957 13-12

COEFFICIENT OF TURBULENCE IN BOUNDARY LAYER OF ATMOSPHERE N64-20205 13-21

PARAMETERS OF ATMOSPHERIC TURBULENCE OBTAINED BY AUTOMATIC INTEGRAL FLUCTUATION METER AND RELEASE OF PUFFS OF SMOKE N64-20226 13-21

DEPENDENCE OF CHARACTERISTICS OF ATMOSPHERIC TURBULENT DIFFUSION ON DISPERSION TIME OF IMPURITY
N64-20227 13-21

DYNAMIC RESPONSE OF AIRPLANES TO ATMOSPHERIC TURBULENCE
NASA-TR-R-199 N64-21430 14-04

DEVICE FOR MEASURING AND RECORDING ATMOSPHERIC TURBULENCE
FTD-TT-63-623/1&2 N64-22653 15-15

STATISTICAL THEORY OF ATMOSPHERIC TURBULENCE
N64-24411 17-11

ATMOSPHERIC GRAVITY WAVE N64-24470 17-21

INHALATION HAZARDS OF EXPOSURE TO ATMOSPHERIC CONTAMINANTS N64-24615 17-16

MECHANICAL EQUATIONS FOR ANALYZING ATMOSPHERIC TURBULENCE
ONERA-TR-114 N64-24814 17-12

SIMULATION OF RANDOM DISTURBANCES OF TURBULENT ATMOSPHERE N64-25433 17-02

DYNAMIC EQUATIONS OF AIR INTAKE & CONTROL SYSTEMS FOR TURBOJET ENGINES OPERATING IN TURBULENT ATMOSPHERES N64-25434 17-04

ATMOSPHERIC TURBULENCE ENCOUNTERED BY COMET II AIRCRAFT CARRYING CLOUD COLLISION WARNING RADAR
ARC-CP-713 N64-28847 20-04

MEASURED SPECTRAL RESPONSE IN PITCHING PLANE OF AIRCRAFT TO VERTICAL VELOCITY COMPONENT OF ATMOSPHERIC TURBULENCE

ARC-CP-708 N64-29383 21-04

POWER SPECTRA OF VERTICAL AND HORIZONTAL COMPONENTS OF ATMOSPHERIC TURBULENCE MEASURED FROM LOW ALTITUDE AIRCRAFT
ARC-CP-733 N64-30019 21-21

INFLUENCE OF AUTOMATIC PILOT ON FLIGHT SAFETY AND DYNAMICS OF FLEXIBLE AIRCRAFT IN ATMOSPHERIC TURBULENCE N64-30228 22-04

TURBULENCE IN UPPER TROPOSPHERE OVER TRANSCAUCASIA IN RELATION TO TYPES OF SYNOPTIC PROCESSES
JPRS-26523 N64-30375 22-21

POWER SPECTRUM MEASUREMENTS OF ATMOSPHERIC TURBULENCE IN SEVERE STORMS AND CUMULUS CLOUDS
NASA-TN-D-2469 N64-30998 22-21

ATMOSPHERIC BOIL MEASURING APPARATUS
DEPT.-6-5 N64-31127 22-12

FLIGHT SIMULATION AND EFFECTS OF SEVERE AIR TURBULANCE ON JET AIRLINE PILOTS
NADC-NL-6411 N64-31666 23-14

ERROR ANALYSIS OF TURBULENT FLUX MEASUREMENTS - EDDY FLUXES OF MOMENTUM, HEAT, AND WATER VAPOR N64-31847 23-15

ATMOSPHERIC TURBULENT PRESSURE CORRELATION OF MULTIPORT MICROPHONES N64-32256 23-08

TIME SPECTRUM OF LOGARITHMIC-AMPLITUDE FLUCTUATIONS OF ELECTROMAGNETIC WAVE PROPAGATING THROUGH TURBULENT ATMOSPHERE
TR-1241 N64-32445 23-08

EFFECT OF ATMOSPHERIC TURBULENCE ON LASER COMMUNICATIONS SYSTEM, OPTICAL WAVE FRONT DISTORTION, ANGULAR SCINTILLATION, AND PHASE AND AMPLITUDE CORRELATION FUNCTIONS
SID-64-1894-2 N64-32756 24-08

EFFECT OF ATMOSPHERIC TURBULENCE ON LASER COMMUNICATION SYSTEMS
TR-91 N64-32757 24-08

INFLUENCE OF ATMOSPHERIC TURBULENCE ON AIRCRAFT SAFETY AND PASSENGER COMFORT
ONERA-TP-114/1964/ N64-33052 24-11

ATMOSPHERICS
CF STATIC ELECTRICITY
SOVIET RESEARCH IN ATMOSPHERICS AND GEOLOGY
JPRS-21828 N64-10281 01-12

ATMOSPHERIC AND METEOROLOGICAL RESEARCH - SOUNDING ROCKETS AND TRACKING ACTIVITIES FROM ARGENTINA AND PHILIPPINES
A/AC.105/11/ADD.3 N64-10434 01-01

SUMMARY OF RESEARCH IN ATMOSPHERIC PHYSICS, RADIOLOGICAL CHEMISTRY & PHYSICS, CHEMICAL EFFLUENTS, & INSTRUMENTATION
NP-77609 N64-11345 02-01

GEOPHYSICAL DATA - ATMOSPHERICS, WHISTLERS, AND SOLAR RADIO EMISSIONS N64-12500 04-12

ORBITAL LIFETIME PREDICTION - ATMOSPHERIC VARIATIONS, VEHICLE DRAG COEFFICIENT, PROPELLANT BOILOFF, & VEHICLE ATTITUDE STABILIZATION
NASA-TN-D-1995 N64-12714 04-29

ATMOSPHERICS - INFRARED STUDIES, STORM MONITORING, AND NUCLEI CONDENSATION
AROD-45691 N64-15358 07-12

ATMOSPHERIC PHYSICS - RADIATIVE DIVERGENCE, RADIATION BALANCE, WINDS & NORMAL DISTRIBUTION, AND INFRARED ABSORPTION
NASA-TT-F-184 N64-15407 07-21

USE OF STARS FOR ESTIMATING LIGHT ATTENUATION IN ATMOSPHERE N64-15460 07-23

DIRECTION-OF-ARRIVAL OF WHISTLERS - MICROWAVE TELEMETRY STUDY OF ATMOSPHERICS
AFCRL-63-773 N64-19278 11-08

WHISTLER OBSERVATIONS FROM LABRADOR TO ANTARCTICA N64-19279 11-08

IRREGULARITIES OF IONOSPHERIC D-LAYER AND EFFECT ON WAVEFORM OF ATMOSPHERICS N64-19681 12-12

STATISTICAL FREQUENCY DISTRIBUTION OF ATMOSPHERICS N64-19688 12-12

ATMOSPHERICS - LIGHTNING, NOISE, VERY LOW FREQUENCY EMISSIONS & SOLAR RADIO MICROWAVE EMISSIONS N64-27180 19-12

ATMOSPHERICS RADIATED FROM LIGHTNING FLASHES N64-27182 19-12

ATMOSPHERICS IN THUNDERSTORM ACTIVITY AND LIGHTNING DISCHARGE DETECTORS
FTD-MT-64-124 N64-31758 23-21

ATMOSPHERICS AND INSTABILITY IN TROPOSPHERE - RADIO COMMUNICATION AND DIRECTION FINDING N64-31761 23-21

RELATION OF ATMOSPHERICS AND DURATION OF THUNDERSTORMS N64-31762 23-21

ATMOSPHERIC ELECTRICAL CHARACTERISTICS IN FOG, SMOKE AND HAZE N64-31764 23-21

DISTANCE OF THUNDERSTORM FROM AMPLITUDE OF ATMOSPHERICS N64-31769 23-21

ATOM
SA HYDROGEN ATOM
SA OXYGEN ATOM
CF ION
CF METASTABLE ATOM
CALCULATION OF INTERSTITIAL ATOM MOBILITY USING TEMPERATURE DEPENDENT GREEN FUNCTION
NIJS-R-412 N64-11365 02-25

EVALUATION OF SCAVENGER ELEMENTS FOR REMOVAL OR STABILIZATION OF INTERSTITIAL IMPURITIES IN CHROMIUM
ARL/MET-50 N64-11386 02-18

CHEMICAL KINETICS AND GAS DYNAMICS OF ATOM AND FREE-RADICAL REACTIONS - SQUID PROJECT N64-13488 05-24

SURFACE RECOMBINATION OF DISSOCIATED ATOMS IN CHEMICALLY FROZEN BOUNDARY LAYERS
SSD-TDR-63-285 N64-13610 05-11

PHOTOGRAPHIC INTERFEROMETRIC MEASUREMENT OF DAY AIRGLOW EMISSION OF ATOMIC OXYGEN
AFCRL-64-220 N64-16073 07-12

STRUCTURE CALCULATION OF X-RAY ABSORPTION EDGE OF ATOMS N64-16218 08-23

ATOM DENSITY MEASUREMENTS BY LUMINESCENCE OF SOLIDS
NASA-CR-20 N64-17987 10-25

EQUILIBRIUM DISTRIBUTIONS FOR INTERMEDIATE-WEIGHT ATOMS N64-19460 12-23

QUANTUM THEORY OF ENERGIES OF EXCITED STATE ATOMS & MOLECULES IN UPPER & STELLAR ATMOSPHERES AND MATERIALS UNDER COMBUSTION
NASA-CR-53704 N64-20003 13-23

ATOMIC OSCILLATOR DEVICE FOR NAVIGATION & GUIDANCE
ASD-TDR-64-2 N64-20136 13-22

EFFECTS OF CONCENTRATION AND VIBRATIONAL RELAXATION ON INDUCTION PERIOD OF OXYGEN AND HYDROGEN CHEMICAL REACTIONS
NASA-TM-X-52022 N64-20348 13-23

SHELL THEORY OF PROTON-NEUTRON INTERACTION IN ATOMIC NUCLEUS
USNRDL-TR-723 N64-25213 17-23

NUMERICAL INTEGRATED MODEL OF ATOM DERIVED FROM

THOMAS-FERMI DIFFERENTIAL EQUATION
P-2783 N64-25648 17-23

LINE SPECTRUM IN MAGNETIC-DIPOLE TRANSITION IN HYPERFINE STRUCTURE OF ATOM N64-27169 19-05

PERTURBATION OF ABSORPTION SPECTRA OF CRYSTALLINE ARGON AND KRYPTON IN VACUUM ULTRAVIOLET BY INTERSTITIAL ATOMS OF XENON
QTSR-1 N64-27196 19-23

INTERACTION OF INTERSTITIAL ATOMS AND SUBSTRUCTURE IN REFRACTORY ELEMENTS - CRYSTAL STRUCTURE DEFECT N64-27579 19-18

EFFECT OF FOREIGN GAS ON DISPLACEMENT OF LINES IN ABSORPTION SPECTRUM OF ATOMS - WIDTH OF ENERGY LEVELS OF AN ATOM WITH HIGH PRINCIPLE QUANTUM NUMBER
AID-T-64-18 N64-28072 20-23

KRYPTON 85 AS UNIVERSAL TRACER ATOM
NYO-2457-3 N64-28671 20-07

ATOMIC MASS MEASUREMENT - MASS SPECTROSCOPY AND ERROR DETERMINATION N64-29064 21-23

DIFFERENCE IN VERDET CONSTANT BETWEEN ATOMIC AND MOLECULAR HYDROGEN USED TO DETERMINE ATOMIC CONCENTRATION IN MIXTURE AND DERIVATION OF ELECTRIC SUSCEPTIBILITY FOR HYDROGEN
NOLTR-64-87 N64-30040 21-23

ELASTIC COLLISION STOPPING OF PARTICLES FROM PLANE UNIDIRECTIONAL SOURCE IN INFINITE MEDIUM OF RANDOMLY LOCATED TARGET ATOMS
ARL-64-129 N64-33954 24-23

ATOMIC BEAM
ATOMIC BEAMS OF ALKALI ATOMS IN ELECTRON VOLT ENERGY RANGE - LITHIUM ATOM BEAM
TR-19 N64-20172 13-24

PLASMA ION DENSITY MEASUREMENTS BASED ON ATTENUATION OF MEDIUM ENERGY ATOMIC BEAM
MATT-277 N64-32417 23-24

ATOMIC BOMB
S NUCLEAR WARFARE
MANHATTAN PROJECT WORK ON BIOLOGICAL EFFECTS OF EXTERNAL RADIATION N64-10936 02-16

ATOMIC CLOCK
CF MOLECULAR BEAM
DETERMINATION OF NONUNIFORMITY OF ASTRONOMICAL TIME USING MOLECULAR STANDARD N64-11424 02-05

CRYSTAL AND ATOMIC CLOCK FREQUENCY STANDARDS FOR AIR NAVIGATION
TR-0373 N64-20493 13-15

ATOMIC COLLISION
CF MOLECULAR COLLISION
ATOMIC COLLISION CROSS-SECTION MEASUREMENTS OF CESIUM ION IN LOW ENERGY RANGE N64-14205 06-23

INTERACTION OF ATOMIC PARTICLES WITH METAL SURFACES
AEC-TR-6089 N64-15933 07-23

COLLISION PROCESSES IN GASEOUS PLASMAS
SATR-1 N64-18704 11-24

ATOMIC COLLISION PROCESSES IN GAS MIXTURES DURING AND AFTER EXCITATION BY MICROWAVE DISCHARGES
AROD-3511-1 N64-22514 15-12

ATOMIC COLLISION PROCESSES OCCURING IN ATMOSPHERIC GASES
RM-64-928-113-M5 N64-26849 18-11

ATOMIC COLLISIONS AND BEAM SCATTERING STUDIES - SCATTERING CROSS SECTIONS OF ALKALI METAL ATOMS BY RARE GASES
GDA-DCE-64-037 N64-27552 19-23

ATOMIC AND MOLECULAR COLLISION CROSS SECTIONS IN CONTROLLED THERMONUCLEAR RESEARCH - BIBLIOGRAPHY
ORNL-3113, REV. N64-27948 20-23

RESONANT CHARGE EXCHANGE IN ATOMIC COLLISIONS
N64-30305 22-23

COLLISION CROSS SECTIONS FOR CESIUM ATOMS
N64-30442 22-24

HYDROGEN ATOM IONIZATION BY ELECTRON COLLISION
NASA-TM-X-55081 N64-33633 24-24

ATOMIC ENERGY
CF NUCLEAR ENERGY
DIRECT CONVERSION OF ATOMIC ENERGY TO ELECTRICAL ENERGY - FISSION-ELECTRIC CELL PROJECT
RM-3908-PR N64-13072 04-06

ATOMIC ENERGY IN SPACE - LEGISLATIVE PROBLEMS ASSOCIATED WITH RESEARCH & DEVELOPMENT
N64-14554 04-01

ATOMIC ENERGY - ARBITRARILY SHAPED HOMOGENEOUS BODIES & ALBEDO METHOD EXAMINATION OF SUBCRITICAL SYSTEM
FTD-TT-62-1639/1&2&4 N64-22926 16-23

CIVILIAN APPLICATIONS OF ATOMIC ENERGY
BMI-1668/DEL./ N64-23270 16-23

NUCLEAR PHYSICS - APPLICATIONS OF FISSION AND FUSION REACTIONS TO PRODUCE ATOMIC ENERGY
FTD-TT-63-1148/1 N64-23442 16-01

CONFERENCE ON PEACEFUL USES OF ATOMIC ENERGY
AEC-TR-6398, VOL. 1 N64-28284 20-23

ATOMIC ENERGY - CAPTURE CROSS SECTIONS FOR NEUTRONS & ACTIVATION BY PROTON IRRADIATION
FTD-MT-64-171 N64-30023 21-23

EQUIPMENT FOR PHOTOELECTRON DETERMINATION OF BINDING ENERGIES IN ATOMS
AD-603170 N64-30198 21-10

CHEMISTRY AND ATOMIC ENERGY - NUCLEAR REACTOR FUEL AND WASTE PROCESSING, TRANSURANIUM ELEMENTS, FISSION PRODUCT EXTRACTION, RADIATION EFFECTS, AND DECONTAMINATION
ORNL-3627 N64-31061 22-07

EURATOM ACTIVITIES N64-32876 24-17

EURATOM ACTIVITIES - DOCUMENTATION
N64-32898 24-18

BIBLIOGRAPHY ON ATOMIC RADIATION EFFECTS
TID-3909 /SUPPL. 2/ N64-33138 24-16

ATOMIC GAS
CHEMICAL KINETICS AND GAS DYNAMICS OF ATOM AND FREE-RADICAL REACTIONS - SQUID PROJECT
N64-13488 03-24

THREE-BODY RECOMBINATION COEFFICIENT OF ATOMIC NITROGEN
AD-428624 N64-14616 06-07

THERMAL ACCOMMODATION COEFFICIENTS OF DIATOMIC GASES - CALCULATIONS FOR SOME SPECIAL CASES
AGES-63-2 N64-16287 08-23

CROSS SECTIONS FOR PHOTOIONIZATION OF ATOMIC OXYGEN BY RADIATION USING HARTREE-FOCK CALCULATION
NASA-CR-55949 N64-17689 09-23

ATOMIC HYDROGEN EMISSION LINE OBSERVATIONS OF GALAXIES
HRAP-111 N64-18471 10-05

MODEL DISTRIBUTIONS OF ATOMIC HYDROGEN IN GALAXIES
HRAP-112 N64-18472 10-05

CHEMICAL KINETICS AND GAS DYNAMICS OF ATOM AND FREE RADICAL REACTIONS N64-18862 11-24

HELIUM AND ATOMIC HYDROGEN IN PERIOD OF SOLAR ACTIVITY MINIMUM
NASA-TT-F-8625 N64-24158 16-19

AIRGLOW & REACTION BETWEEN ATOMIC HYDROGEN & OZONE IN ATMOSPHERE N64-24473 17-21

CHEMICAL REACTION OF ATOMIC OXYGEN WITH CARBON MONOXIDE
NASA-CR-56460 N64-25492 17-07

ELECTRON IMPACT IONIZATION AND ATTACHMENT IN POLYATOMIC GASES, AND CORONA-INDUCED WEIGHT LOSS IN MYLAR AND H FILMS
ML-TDR-64-57 N64-26308 18-07

2S AND 2P ELECTRON IMPACT EXCITATION IN ATOMIC HYDROGEN
NASA-RP-305 N64-29341 21-23

ATOMIC PHYSICS
ATOMIC AND MOLECULAR QUANTUM MECHANICS
AD-428801 N64-14477 06-23

INTENSITY AND LIFETIME MEASUREMENTS OF ATOMIC TRANSITION PROBABILITIES
ATD-TDR-63-4177 N64-16493 08-23

ATOMIC ORBITAL AND ENERGY BAND CALCULATIONS WITH GAUSSIAN AND SLATER FUNCTIONS
NONR-1841/34/ N64-19267 11-25

HIGH ENERGY PHYSICS - ELEMENTARY PARTICLES
UCRL-11100 N64-23380 16-23

PERTURBATION THEORY IN ATOMIC AND MOLECULAR QUANTUM MECHANICS - BERYLLIUM ATOM SHIELDING FACTORS AND POLARIZABILITIES
NASA-CR-56513 N64-24036 16-23

PHYSICS OF CHARGED PARTICLE SYSTEMS
NBS-7663 N64-26472 18-24

TRANSITION PROBABILITIES - EXPANSION METHOD FOR CALCULATING ATOMIC PROPERTIES
NASA-CR-87 N64-26706 18-23

RESEARCH IN MOLECULAR STRUCTURE AND SPECTRA, QUANTUM MECHANICS, AND ATOMIC PHYSICS
AD-438424 N64-30304 22-23

ATOMIC SELF-CONSISTENT FIELD CALCULATIONS BY EXPANSION METHOD - COMPUTER PROGRAM
N64-30311 22-23

VECTOR COUPLING COEFFICIENTS FOR ATOMIC SELF-CONSISTENT FIELD CALCULATIONS N64-30318 22-23

RELATION BETWEEN ELECTRONS AND HOLES IN ATOMIC CONFIGURATIONS N64-30319 22-23

RESEARCH IN ATOMIC, PLASMA, AND SURFACE PHYSICS, ELECTRIC VACUUM GYROSCOPE, COMPUTER STATISTICS, IONIZATION GAUGES, AND SEMICONDUCTORS
AD-420532 N64-31244 22-23

NAVY RESEARCH ANNUAL REPORT - ATMOSPHERE AND ASTROPHYSICS, CHEMISTRY, ELECTRONIC DEVICES, MECHANICS, METALLURGY AND CERAMICS, NUCLEAR AND ATOMIC PHYSICS, AND SOLID STATE PHYSICS
AD-448760 N64-32600 23-23

MOSSBAUER EFFECT FOR PRECISE MEASUREMENT IN SOLID STATE & ATOMIC PHYSICS, MECHANICS, GEODESY, AND OPTICS
1-A2217-6 N64-33722 24-25

ATOMIZATION
CF AEROSOL
MASS SPECTROMETRIC STUDIES OF BORON-CARBON-SILICON SYSTEMS, AND REDETERMINATION OF ATOMIZATION ENERGY OF THESE MOLECULES
WADD-TR-60-782, PT. 13 N64-11172 02-18

ATOMIZATION OF STAINLESS STEEL AND TANTALUM BY IONS OF DEUTERIUM AND KRYPTON
FTD-MT-63-6/1&2&3&4 N64-14373 06-23

EFFECT OF AMBIENT AIR VELOCITY ON ATOMIZATION OF TWO IMPINGING WATER JETS
NASA-TN-D-2087 N64-15219 07-11

EFFECT OF PREVAPORIZATION ON COMPLETENESS AND STABILITY OF ATOMIZED FUEL N64-16232 08-26

CHARGE-TO-MASS RATIOS AND VELOCITIES OF ELECTRICALLY ATOMIZED PARTICLES
CPRL-2-63 N64-20822 14-23

COMBUSTION RATE OF ATOMIZED FUEL IN TURBULENT FLOW
FTD-TT-62-1028/1&2&4 N64-21651 15-26

TECHNIQUE FOR DESCRIBING DROPLET-SIZE DISTRIBUTION PRODUCED BY PNEUMATIC ATOMIZATION
REPT.-0395-04/15/SP N64-21904 15-23

DISPERSE ATOMIZATION IN NOZZLES OPERATING ON PRINCIPLE OF BILATERAL WASHING OF LIQUID SURFACE WITH GAS
FTD-TT-63-290/1&2&4 N64-22346 15-11

ELECTROHYDRAULIC FEEDING AND ATOMIZING LIQUID FUELS AND OTHER LIQUIDS
FTD-TT-63-478/1&2 N64-22649 15-07

ATOMIZATION OF LIQUID IN SUPERSONIC FLOW
FTD-MT-63-186 N64-28170 20-24

EFFECTS OF ATOMIZATION AND INJECTION PROCESSES ON PERFORMANCE OF LIQUID PROPELLANT ROCKET ENGINE
N64-28182 20-24

MOMENTUM-AVERAGED THICKNESS OF FREE LIQUID SHEETS AND ATOMIZATION OF LIQUIDS
NASA-CR-58246 N64-29006 20-15

SOLID HOMOGENEOUS AEROSOL PRODUCTION BY ELECTRICAL ATOMIZATION
UR-652 N64-33069 24-11

ATR
S ADVANCED TEST REACTOR /ATR/

ATROPINE
EFFECTS OF ATROPINE ON REFLEXES OF SCHIZOPHRENIA PATIENTS N64-31460 23-14

ATTENUATION
S ACOUSTIC ATTENUATION
S RADIO ATTENUATION

ATTENUATION COEFFICIENT
PULSED HYPERSONIC EXCITATION AND ATTENUATION MEASUREMENTS IN QUARTZ AT LOW TEMPERATURES
AFCRL-63-564 N64-15585 07-19

FIELD INTENSITY, GUIDE WAVELENGTHS, AND ATTENUATION OF GROOVED WAVEGUIDE
NASA-CR-58721 N64-29403 21-09

ATTITUDE
APPLICATION OF OPTIMAL LINEAR FILTERING THEORY TO ESTIMATION OF PITCH ATTITUDE OF ORBITING SPACECRAFT - HORIZON SCANNER
SSD-TDR-64-147 N64-28539 20-09

ATTITUDE ERROR ANALYSIS OF SPIN STABILIZED VELOCITY PACKAGE OF ATHENA ROCKET
BSD-TDR-64-69 N64-30708 22-30

ATTITUDE CONTROL
SA SATELLITE ATTITUDE CONTROL
CF FLIGHT CONTROL
CF HORIZON SENSING
EFFECT OF INSERTION POINT ON PERFORMANCE OF FUSELAGE-MOUNTED, PULSE-DURATION-MODULATED, ATTITUDE CONTROL DEVICE N64-10171 01-04

FLIGHT SIMULATOR STUDY OF VELOCITY AND ATTITUDE CONTROL SYSTEMS WITH PILOT PERFORMANCE CONSIDERATION
EWR-101-63 N64-10971 02-04

FIXED AND MOVING COCKPIT SIMULATOR TO STUDY ON-OFF REACTION CONTROL SYSTEM FOR MANUAL ATTITUDE STABILIZATION
NASA-TN-D-2068 N64-11246 02-03

ATTITUDE CONTROL FOR SUN-ORIENTED AXISYMMETRIC ROTATING MANNED SPACE STATION
NASA-CR-59033 N64-11816 03-22

ORBITAL LIFETIME PREDICTION - ATMOSPHERIC VARIATIONS, VEHICLE DRAG COEFFICIENT, PROPELLANT BOILOFF, & VEHICLE ATTITUDE STABILIZATION

NASA-TN-D-1995 N64-12714 04-29

ELECTRIC MACHINERY FOR LONGTIME ATTITUDE CONTROL OF SPACE VEHICLES
NASA-TM-X-51373 N64-13064 04-06

FUNCTIONAL CAPABILITY OF NEUROMIME NETWORKS FOR USE IN ATTITUDE STABILIZATION SYSTEMS
AED-TDR-63-549 N64-15083 07-22

ANALYTIC DETERMINATION OF MAGNETIC FIELD AROUND SATELLITE IN CIRCULAR ORBIT FOR ATTITUDE CONTROL SYSTEM USING SATELLITE MAGNET
NASA-TN-D-2041 N64-15218 07-12

INERTIAL ACCELEROMETERS FOR ATTITUDE ERROR SIGNAL AND ORBITAL SHAPE AND SIZE DETERMINATIONS
N64-15259 07-22

INFRARED HORIZON SCANNER FOR ATTITUDE CONTROL
N64-15478 07-22

ADAPTIVE ATTITUDE CONTROL SYSTEM FOR SPACE VEHICLES
NASA-CR-53109 N64-16748 08-22

EFFECTS OF MODIFIED TASK FEEDBACK DURING TRAINING ON PERFORMANCE OF SIMULATED ATTITUDE CONTROL TASK AFTER THIRTY DAYS
AMRL-TDR-63-125 N64-16811 08-14

TRIAXIAL BALANCING TECHNIQUES FOR SPACECRAFT
NASA-TN-D-2144 N64-17155 09-30

PASSIVE GRAVITATIONAL ATTITUDE CONTROL SYSTEM FOR SATELLITE WHICH REQUIRES NO FUEL
N64-17556 09-30

SYNCHRONOUS METEOROLOGICAL SATELLITE STUDY - ATTITUDE & ORBIT CONTROL AND STATIONKEEPING
NASA-CR-55929 N64-17698 09-06

ATTITUDE & VELOCITY CONTROL SYSTEM FOR NASA VECTOR RESEARCH VEHICLE
NASA-CR-53368 N64-18100 10-27

MOMENTUM EXCHANGE-TYPE ATTITUDE CONTROL SYSTEM FOR SPACECRAFT ON EXTENDED MISSION
NASA-CR-53556 N64-18302 10-30

SPACECRAFT ATTITUDE CONTROL FOR EXTENDED MISSIONS
NASA-CR-53555 N64-18303 10-30

BIBLIOGRAPHY ON ATTITUDE CONTROL OF SATELLITES AND SPACE VEHICLES
SID-63-232 N64-18391 10-30

ELECTROMAGNETIC ATTITUDE CONTROL SYSTEM FOR EARTH SATELLITES
NASA-CR-24 N64-18456 10-30

CHARACTERISTICS OF ELECTROMAGNETIC ATTITUDE CONTROL SYSTEM
NASA-CR-25 N64-18457 10-30

IN-ORBIT GUIDANCE AND ATTITUDE CONTROL OF SPACE VEHICLES
W-6374 N64-19813 12-22

SATELLITE MOTION SIMULATOR FOR RESPONSE TESTING OF SPACE VEHICLE ATTITUDE CONTROL SYSTEM
NASA-TM-X-51643 N64-19938 12-10

ATTITUDE CONTROL OF MANNED SPACECRAFT PERFORMING ORBITAL TRANSFER, RENDEZVOUS, & LIFTING REENTRY MANEUVERS
FDL-TDR-64-32 N64-20084 13-30

APPLICATION OF HIGH MOMENT-PRODUCING TECHNIQUES FOR ATTITUDE CONTROL OF MANNED SPACECRAFT PERFORMING ORBITAL TRANSFER AND LIFTING REENTRY
FDL-TDR-64-32, SUMMARY N64-20149 13-30

MANUAL ATTITUDE CONTROL SYSTEMS - OPERATING MODES OF CONTROL
NASA-CR-56 N64-21421 14-06

PASSIVE ATTITUDE STABILIZATION OF SATELLITES BY GRAVITATIONAL GRADIENT TORQUES
NASA-CR-56541 N64-24161 16-12

ATTITUDE CONTROL SYSTEM FOR SPIN STABILIZED SPACE VEHICLES
NASA-RP-230 N64-25601 17-15

ANALOG STUDY OF ROTATING-SOLID-ROCKET CONTROL SYSTEM AND ITS APPLICATION TO ATTITUDE CONTROL OF SPACE-VEHICLE UPPER STAGES
NASA-TN-D-2366 N64-26759 18-06

TWIN-GYRO ATTITUDE CONTROL SYSTEM FOR SPACE VEHICLES
NASA TN D-2419 N64-27121 19-04

OPTIMAL CONTROL FUNCTIONS OF MINIMUM SETTLING TIME AND FUEL CONSUMPTION FOR SINGLE-AXIS ATTITUDE CONTROL SYSTEMS
ASME PAPER-62-JACC-6 N64-27175 19-05

APPLICATION OF MAGNETIC-EXPANSION THRUSTORS TO SATELLITE STATION KEEPING AND ATTITUDE CONTROL
AIAA PAPER-64-677 N64-28360 20-17

MOMENTUM BIAS ATTITUDE CONTROL FOR SYNCHRONOUS COMMUNICATIONS /SYNCOM/ SATELLITE
TOR-269/4540-70/-1 N64-28670 20-12

SOLAR PRESSURE ATTITUDE CONTROL FOR INTERPLANETARY SPACECRAFT - PHOTON MOMENTUM TRANSFER
NASA-CR-58534 N64-29002 20-04

ATTITUDE STABILIZATION OF MANNED SPACECRAFT BY TWIN GYROS AND PULSE-MODULATED REACTION JETS
NASA-TN-D-1645 N64-30092 21-04

TWIN GYROSCOPIC CONTROL SYSTEM FOR THREE ORTHOGONAL AXES OF SPACE VEHICLE ATTITUDE CONTROL
NASA-RP-328 N64-31009 22-04

STATIC TESTING OF LIFT FAN - PROPULSION AND ATTITUDE CONTROL SYSTEMS PERFORMANCE
TCREC-TR-62-21 N64-31128 22-03

QUANTIZED DATA ATTITUDE CONTROL SYSTEM FOR SPACE VEHICLE
SSD-TDR-64-104 N64-31633 23-04

OPTIMIZATION STUDY OF MASS EXPULSION ATTITUDE CONTROL SYSTEM BY ADVANCED LIMIT CYCLE TECHNIQUES
NASA-CR-59377 N64-33901 24-04

ATTITUDE INDICATOR

TRANSONIC WIND-TUNNEL TESTS OF HEMISPHERICAL-HEADED ATTITUDE INDICATORS FOR MISSILES IN FREE FLIGHT
ARL/A-223 N64-14443 06-13

BUBBLE LEVELS AS ATTITUDE SENSORS IN SATELLITES
SSD-TDR-63-373 N64-15727 07-12

BREADBOARD OF INSTRUMENTS FOR ATTITUDE SENSING AND ORBITAL LAUNCH ERROR ANALYSIS
NASA-CR-55732 N64-15872 07-22

ELECTRO-OPTICAL MEASUREMENT OF MISSILE ATTITUDE DURING LAUNCH USING LASER BEAMS
ESD-TDR-63-624 N64-19974 12-15

ATTITUDE SENSORS FOR SATELLITE CONTROL SYSTEM USING ION ENGINE PROPULSION FOR ATTITUDE CONTROL TORQUES AND ORBIT CONTROL IMPULSES
NASA-CR-53 N64-30991 22-15

AUDIO EQUIPMENT

PORTABLE AUDIOVISUAL EQUIPMENT AS AIDS TO TRAINING IN REMOTE AREAS AND FOR INSTRUCTIONAL TECHNIQUES INDEPENDENT OF WRITTEN LANGUAGE
AMRL-TDR-63-91 N64-14366 06-10

SPACECRAFT ENVIRONMENTAL ACOUSTIC TEST FACILITY - LISTENING FATIGUE AND COMFORT
AD-442827 N64-32376 23-16

COMFORT PROBLEMS RELATED TO SPACECRAFT COMMUNICATIONS EQUIPMENT
AD-442828 N64-32377 23-16

AUDIOFREQUENCY
SA SOUND WAVE
HIGH POWER, HIGH VOLTAGE, AUDIOFREQUENCY TRANSFORMER DESIGNING
GR-6 N64-18885 11-09

MEASUREMENT OF NOISE EMISSIONS FROM IONOSPHERIC IONS AT AUDIOFREQUENCIES N64-19689 12-12

NATURAL ELECTROMAGNETIC RADIATION - AUDIOFREQUENCY RANGE
AFCRL-64-304 N64-20183 13-28

EFFECT OF AUDIOFREQUENCY ACOUSTIC WAVES ON PNEUMATIC DIGITAL AMPLIFIERS N64-25268 17-15

STORED REFERENCE, OPTICAL CORRELATION DETECTOR FOR AUDIOFREQUENCY RANGE
REPT.-5-13-64-9 N64-29746 21-08

DESIGN AND DEVELOPMENT OF REAL TIME, AUDIO BANDWIDTH, HIGH SPEED CORRELATOR
RADC-TDR-64-158 N64-29931 21-09

AUDIOLOGY
SA DEAFNESS
SA HEARING
MEDICAL RESEARCH IN AUDIOLOGY - FUNCTION OF AUDITORY ANALYZER AND INSTRUMENTS FOR EAR SURGERY
JPRS-24519 N64-20229 13-16

AUDITORY PERCEPTION
BINAURAL BEAT PERCEPTION STUDY USING RELATIVE PROCEDURES
CARI-63-17 N64-14411 06-16

USE OF ANATOMICAL & PHYSIOLOGICAL EVIDENCE FOR CONSTRUCTING THEORIES OF INFORMATION PROCESSING OR SENSORY DISCRIMINATION - AUDITORY SYSTEM N64-18830 11-16

TUNING BETWEEN CENTRAL SENSORY PATHWAYS AND SENSE ORGANS - AUDITORY DISCRIMINATION N64-18831 11-16

CUEING AS TRAINING METHOD FOR SIMPLE AUDITORY DETECTION TASKS
NAVTRADEVCEN-3143-1 N64-22518 15-14

EFFECT OF SIMULTANEOUS AUDITORY STIMULATION ON PERCEPTION OF VISUAL SIGNALS
FPRC-1209/8/ N64-29767 21-14

AUDITORY SENSATION AREA
MEASUREMENT OF INTENSITY OF SHORT SOUND SIGNAL AT PRIMARY NEURON LEVEL OF AUDITORY SYSTEM
JPRS-18659 N64-11414 02-16

FACTORS AFFECTING VISUAL & AUDITORY SYSTEMS IN MAN
JPRS-22735 N64-13582 04-16

CLIMATIC EFFECT ON EXCITABILITY OF VISUAL & AUDITORY ORGANS IN MAN N64-13584 05-16

AUDITORY PAIN THRESHOLDS FOR INTERMITTENT WHITE NOISE
AD-236942 N64-15889 07-16

AUDITORY SIGNAL
CF PSYCHOACOUSTICS
VISUAL AND AUDIBLE SIGNAL MECHANISMS FOR ALTIMETER DISPLAY SYSTEM
FPRC-1215 N64-20627 13-15

AUDITORY SIGNAL FOR FEEDBACK IN SIMPLE REMOTE CONTROL HANDLING TASKS
AMRL-TDR-64-46 N64-27433 19-14

AUDITORY STIMULUS
BINAURAL INTERACTION IN ACCESSORY SUPERIOR OLIVARY NUCLEUS OF CAT - ELECTROPHYSIOLOGICAL STUDY OF SINGLE NEURONS
MIT-TR-416 N64-18062 10-16

RESPONSES OF SINGLE UNITS IN AUDITORY CORTEX TO AUDITORY STIMULI IN CATS N64-27968 20-16

SPINAL MOTOR RESPONSES TO AUDITORY STIMULI
NASA-CR-58548 N64-28833 20-16

RESPONSES FROM AUDITORY CORTEX IN CATS N64-29584 21-16

CUMULATIVE EFFECTS OF REPEATED EXPOSURE TO HIGH INTENSITY TONES UPON RECOVERY OF AUDITORY SENSITIVITY
AD-420856 N64-32375 23-14

AURORA
POLAR AURORAE - CAUSES, NATURE OF PHENOMENON, AND REMARKABLE FEATURES OF UPPER LAYERS
JPRS-18822 N64-10457 01-12

ULTRAVIOLET AURORA WITH NORTH-SOUTH ASYMMETRY AND STELLAR SPECTRA TAKEN FROM AEROBEE ROCKET FLIGHT
NASA-RP-71 N64-10469 01-05

THEORIES OF STRUCTURE AND COMPOSITION OF POLAR AURORA - TRAPPED PARTICLES AND SOLAR STREAMS DETERMINING FUNDAMENTAL CONSTANTS OF ASTRONOMY
JPRS-18276 N64-10639 01-12

ELECTROCARDIOGRAMS IN EVALUATING STATE OF ATHLETIC TRAINING AND PHYSICAL TRAINING METHODS
JPRS-22508 N64-12142 03-16

PHOTOMETRIC OBSERVATION OF AURORAS BY INJUN III SATELLITE
NASA-CR-55159 N64-13058 04-12

AURORA PRODUCTION IN WEAKLY IONIZED GAS BY ACTION OF ALTERNATING ELECTRIC FIELD
AFCRL-63-641 N64-13652 04-12

AURORAS AND THEIR EXCITATION STUDIED BY INJUN III N64-13155 07-12

IMAGE ORTHICON UTILIZATION FOR STUDYING AURORAL AND NIGHT AIRGLOW ACTIVITY
AFCRL-64-209 N64-17444 09-12

MODELS OF ELECTRON DENSITY FLUCTUATIONS - AURORAL BACKSCATTERING N64-20768 14-12

IONOSPHERIC DATA FOR SALISBURY, AUSTRALIA DURING AUGUST 1963
CPD-1963/8/S/ N64-20821 14-12

MICROPULSATIONS IN GEOMAGNETIC FIELD AND AURORAL ACTIVITY
AD-432848 N64-21222 14-28

CHARACTERISTICS AND PROPERTIES OF AURORA AND AIRGLOW
NASA-TT-F-202 N64-21876 15-12

OBSERVING NIGHT-SKY EMISSION AND AURORAS N64-21885 15-12

SPECTROPHOTOMETRIC OBSERVATIONS OF EMISSIONS IN AURORAE AND AIRGLOW
NASA-TT-F-201 N64-21889 15-12

OBSERVATIONS OF AURORAL PULSATIONS N64-21894 15-12

VISUAL OBSERVATIONS OF AURORAE AND SUMMARY OF RECORDED EMISSIONS N64-21896 15-12

SPECTROELECTROPHOTOMETRY OF NITROGEN MOLECULES, NITROGEN IONS, OXYGEN IODIDE, & NITROGEN IODIDE EMISSIONS IN AURORAE N64-21899 15-12

PULSATING AURORAE AS SOURCE OF INFRASONIC WAVES ASSOCIATED WITH GEOMAGNETIC ACTIVITY
NASA-RP-216 N64-24085 16-12

VARIATIONS OF COSMIC RAY INTENSITY, EARTH MAGNETIC FIELD, AND AURORAS DURING 25 MARCH 1958 MAGNETIC STORM N64-24427 17-20

ANNOTATED BIBLIOGRAPHY ON SKY ILLUMINATION - AIRGLOW, AURORAS, NOCTILUCENT CLOUDS, ZODIACAL LIGHT, GEGENSCHEIN, AND INSTRUMENTATION
AID-B-64-42 N64-24951 17-12

X-RAY EMISSION OF POLAR AURORA ZONE OF PLANET
NASA-TT-F-8901 N64-25285 17-12

INDIRECT AURORAL PHOTOGRAPHY USING IMAGE ORTHICON CLOSED CIRCUIT TELEVISION SYSTEM
NASA-RP-255 N64-26076 18-12

SPECTROPHOTOMETRIC MEASUREMENTS OF AURORA
AFCRL-64-571 N64-26910 18-12

MORPHOLOGY OF VISIBLE AURORA AND ITS RELATION TO MAGNETIC VARIATIONS AND COSMIC NOISE ABSORPTION
AFCRL-64-570 N64-26911 18-12

DEVELOPMENT OF AURORAL SUBSTORM
N64-27200 19-12

SOLAR INDUCED MAGNETIC VARIATIONS, TELLURIC CURRENTS, IONOSPHERIC ABSORPTION, VISIBLE AURORAS, AND X-RAYS
UAG-R146, PT. 2 N64-27538 19-12

VISUAL AURORAS - MORPHOLOGY, CORRELATION WITH GEOPHYSICAL AND SOLAR ACTIVITY, AND ENERGETIC PARTICLES ASSOCIATED WITH AURORAS
NASA-TM-X-55041 N64-28080 20-12

MORPHOLOGY OF HYDROGEN LINES AND GEOMETRY AND DYNAMICS OF AURORA
AFCRL-64-601 N64-28536 20-12

AIRGLOW, IONOSPHERE, AURORA, GEOMAGNETISM, COSMIC RAYS, AND SOLAR ACTIVITY DATA RECEIVED BY WDC-A FROM 1 JULY 1957 TO 31 DECEMBER 1963
N64-28976 20-12

POLAR AURORA PHENOMENA AND NIGHT SKY RADIATION
N64-29079 21-12

MEASUREMENTS OF 5200/02 ANGSTROM /NI/ DOUBLET IN AURORA USING FABRY-PEROT INTERFEROMETER
AFCRL-64-624 N64-29301 21-12

VISUAL OBSERVATIONS OF AURORAE FROM MIDDLE LATITUDES N64-32716 24-12

MORPHOLOGY OF AURORAE AND GEOMAGNETISM
N64-32717 24-12

AURORAL OCCURRENCE FREQUENCY IN ZENITH FOR DAYLIGHT REGIONS N64-32718 24-12

ERRORS IN MEASUREMENTS OF AURORAL POSITIONS BASED ON ALL-SKY PHOTOGRAPHS N64-32719 24-12

ALL-SKY CAMERA FOR PHOTOGRAPHY OF AURORAE
N64-32720 24-12

SPECTROPHOTOMETRY OF ATMOSPHERIC PHENOMENA - LOW BRIGHTNESS PULSATING AURORAS, RESONANCE EMISSION DURING TWILIGHT, AND INFRARED ATMOSPHERIC SPECTRUM
UAG-R153 N64-33437 24-12

AURORAL ABSORPTION
ALTITUDE OF AURORAL ABSORPTION DUE TO TWO-ELECTRON SPECTRA
NASA-TM-X-54567 N64-15865 07-12

HEIGHT DISTRIBUTION OF AURORAL ABSORPTION PRODUCED BY ELECTRON SPECTRA
NASA-RP-359 N64-34013 24-12

AURORAL ACTIVITY
IONOSPHERIC DATA FOR SALISBURY, AUSTRALIA DURING AUGUST 1963
CPD-1963/8/S/ N64-20821 14-12

AURORAL EMISSION
IONIZATION OF LOWER IONOSPHERE BY BREMSSTRAHLUNG FROM AURORAL ELECTRON FLUX
NASA-TN-D-2096 N64-10058 01-12

PULSATING AURORAS AS SOURCE OF INFRASONIC WAVES ASSOCIATED WITH GEOMAGNETIC ACTIVITY
NASA-TM-X-54620 N64-17690 09-21

AURORAS AND AIRGLOW EMISSIONS DURING INTERNATIONAL GEOPHYSICAL YEAR
NASA-TT-F-117 N64-17774 09-12

GEOMAGNETIC K-INDICES, IONOSPHERIC ABSORPTION, VLF RADIO WAVE PROPAGATION, TRANSIT IVA RECORDING,

VISIBLE AURORAL INDEX, AND MAGNETIC PULSATIONS
N64-19321 12-12

PHOTOMULTIPLIER IMPROVEMENT - LITHIUM FLUORIDE THERMOLUMINESCENT DOSIMETER FOR DETECTION OF AURORAL ELECTRONS
AFCRL-64-166 N64-20148 13-15

PROFILES OF AURORAL HYDROGEN EMISSION OBTAINED BY SPECTROGRAPH N64-21880 15-12

BRIGHTNESS DISTRIBUTION OF AURORAL RAY EMISSION
N64-21881 15-12

OBSERVING NIGHT-SKY EMISSION AND AURORAS
N64-21885 15-12

OBSERVING TWILIGHT BURST OF HELIUM EMISSION WITH FABRY-PEROT STANDARD N64-21887 15-12

SPECTROPHOTOMETRIC OBSERVATIONS OF EMISSIONS IN AURORAE AND AIRGLOW
NASA-TT-F-201 N64-21889 15-12

CONTINUUM EMISSION IN AIRGLOW AND AURORAE
N64-21895 15-12

SPECTROSCOPIC OBSERVATIONS OF AURORAL AND AIRGLOW EMISSIONS N64-21897 15-12

SPECTROELECTROPHOTOMETRY OF HYDROGEN EMISSION IN AURORAE N64-21898 15-12

HYDROGEN EMISSION IN AURORAL SPECTRA - INTERACTION OF SOLAR CORPUSCULAR STREAM WITH ATMOSPHERE
N64-29070 21-12

POLAR AURORA PHENOMENA AND NIGHT SKY RADIATION
N64-29079 21-12

MEASUREMENT OF ATMOSPHERE COMPONENTS OF NIGHT AIRGLOW CONTINUUM, INTENSITY INCREASE IN AIRGLOW, SPATIAL DISTRIBUTION OF H-ALPHA LINE EMISSION, AND HYDROXYL AND WEAK EMISSIONS IN UPPER ATMOSPHERE
NASA-TT-F-204 N64-32701 24-12

PATROL SPECTROGRAPHIC OBSERVATIONS OF H-ALPHA LINE AURORAL SPECTRA N64-32713 24-12

PROTON ENERGY SPECTRUM IN AURORAL EMISSION
N64-32714 24-12

AURORAL ZONE
ATMOSPHERIC HEATING IN AURORAL ZONES - ANALYSIS OF ATMOSPHERIC DRAG OF INJUN III SATELLITE
NASA-CR-52456 N64-10136 01-02

IONIZATION IN D REGION DURING AURORAL BREAKUP EVENTS
AFCRL-63-869 N64-12297 03-12

YAGI ANTENNA EXPERIMENT OF POLAR CAP AND AURORAL ZONE ABSORPTION N64-12422 04-12

BALLOON OBSERVATIONS OF STRUCTURE OF AURORAL ZONE ELECTRON PRECIPITAION EVENTS
AFOSR-424 N64-19797 12-28

THEORY OF MAGNETIC STORMS AND AURORA POLARIS
N64-20753 14-12

OBSERVATIONS OF AIRGLOW NEAR AURORAL ZONE
N64-21893 15-12

DYNAMIC MORPHOLOGY OF AURORA POLARIS
N64-22467 15-12

INFRASONIC WAVES FROM AURORAL ZONE
NASA-TN-D-2138 N64-23372 16-23

FOUR POLARIZATION METHOD FOR MEASURING RADAR CROSS SECTION OF AXISYMMETRIC TARGET
N64-24289 17-08

SEASONAL VARIATION OF DENSITY AND TEMPERATURE CAUSED BY SOLAR ACTIVITY IN AURORAL ZONE
NASA-RP-217 N64-24560 17-12

DEPENDENCE OF AURORAL ZONE SATELLITE SCINTILLATION

ON GEOMAGNETIC ACTIVITY
SR-3 N64-25081 17-12

ANALYTICAL TECHNIQUES FOR PURE FLUID AMPLIFIERS - FOCUSED JET AXISYMMETRIC FLUID DEVICE
N64-25269 17-11

FARADAY ROTATION IN AURORAL ZONE F-REGION
AFCRL-64-266 N64-25368 17-12

OPTICAL MEASUREMENTS OF NATURAL AURORA IN NORTHERN AURORAL ZONE FROM AIRCRAFT PLATFORM
EGEG-B-2651 N64-25699 17-12

OBSERVATION OF AURORAL ZONE IONOSPHERE
AFCRL-64-353 N64-26182 18-12

SATELLITE OBSERVATION OF AURORAL ZONE IONOSPHERIC IRREGULARITIES
AFCRL-64-568 N64-26909 18-12

OBSERVATIONS OF WHISTLERS AND IONOSPHERIC NOISE IN VERY LOW FREQUENCY RANGE AT AURORAL ZONE STATION
AFCRL-64-269 N64-27704 19-08

OCCURRENCE OF VERY LOW FREQUENCY EMISSIONS DURING GEOMAGNETIC DISTURBANCES IN AURORAL ZONE
AFCRL-64-627 N64-28534 20-12

PHYSICAL PROPERTIES OF VERY LOW FREQUENCY EMISSIONS OBSERVED NEAR AURORAL ZONE
AFCRL-64-628 N64-28535 20-12

UPPER ATMOSPHERE HEATING IN AURORAL ZONES DURING GEOMAGNETIC PERTURBATIONS - ANALYSIS OF ATMOSPHERIC DRAG DATA FROM INJUN III SATELLITE
N64-28725 20-32

DATA FROM ALOUETTE AND INJUN III SATELLITES - AVERAGE PRECIPITATION RATE OF ELECTRONS IN AURORAL ZONE AS FUNCTION OF ENERGY
NASA-TM-X-55057 N64-28898 20-12

ENERGETIC PARTICLE PRECIPITATION TO AURORAL ZONE
AFOSR-425 N64-30711 22-12

HEIGHT OF SCINTILLATION-PRODUCING IRREGULARITIES - RELATION BETWEEN AURORAL ZONE SCINTILLATION AND IONOSPHERIC & GEOMAGNETIC CONDITIONS
AFCRL-64-741 N64-31736 23-12

SCINTILLATION-RATE SPECTRUM OF RADIO STAR AND SATELLITE SIGNALS IN AURORAL ZONE
AFCRL-64-743 N64-31737 23-12

PROPAGATION OF VLF RADIO WAVES ACROSS AURORAL ZONE
SU-SEL-64-051 N64-33017 24-08

ALTITUDE OF SCINTILLATION SOURCE IN AURORAL ZONE FROM GEODETIC SATELLITE SIGNAL
AFCRL-64-742 N64-33271 24-12

RADIOWAVE ABSORPTION EVENTS IN AURORAL ZONE - ANALYSIS OF MAGNETOMETER, RIOMETER, AND ALL-SKY CAMERA DATA
NASA-CR-59342 N64-33810 24-28

AUSTENITIC STEEL
AUSTENITIC STEEL TRANSFORMATION IN MIDDLE REGION - DIFFUSION REDISTRIBUTION OF CARBON
N64-11148 02-18

THERMOMECHANICAL PROPERTIES OF DEFORMED AND UNDEFORMED AUSTENITIC STEEL
AD-424403 N64-13095 04-18

HOT-COLD WORKING OF AUSTENITIC STEEL TO IMPROVE STRENGTH CHARACTERISTICS
BMIC-192 N64-13672 04-18

AUSTENITIC CHROMIUM-NICKEL STEEL REACTION WITH LIQUID LITHIUM
N64-13734 05-07

CRYSTAL LATTICE STATE AND DISLOCATION DENSITY IN AUSTENITE & FERRITE DURING PHASE TRANSFORMATIONS
N64-16122 08-25

COMPOSITIONS OF AUSTENITIC STAINLESS STEELS FOR ACHIEVEMENT OF ULTRAHIGH STRENGTH BY CRYOGENIC STRETCH-FORMING
QTR-3 N64-17372 09-18

KINETICS OF AUSTENITE GRAIN GROWTH IN ELECTROSLAG WELDING OF AUSTENITIC STEELS
JPRS-24278 N64-18800 11-18

RESIDUAL STRESSES IN SYMMETRICAL BODIES, FORMATION OF AUSTENITIC & MARTENSITIC STEEL, AND TEMPERING OF QUENCHED STEEL
FTD-TT-62-1762/1&2 N64-19180 11-17

EFFECTS OF SUBSTITUTING COBALT FOR NICKEL ON TENSILE PROPERTIES AND HARDNESS OF AUSTENITIC STAINLESS STEEL
BM-RI-6427 N64-19239 11-18

WELDING OF AUSTENITIC HEAT RESISTANT STEELS AND ALLOYS USED IN BUILDING GAS TURBINES
JPRS-25100 N64-22736 16-17

STRESS-CORROSION CRACKING OF AUSTENITIC STAINLESS STEELS IN ACID CHLORIDE MEDIA
AROD-2721-3 N64-23967 16-18

ALLOYING OF AUSTENITIC STEELS AND SEAMS WELDED ON STEELS WITH BORON TO INCREASE HEAT RESISTANCE
N64-24255 17-18

MOLYBDENUM EFFECT ON PROPERTIES OF AUSTENITIC CHROMIUM-NICKEL-COPPER STEELS N64-27150 19-18

METASTABLE AUSTENITIC FORMING OF HIGH STRENGTH PRESSURE VESSELS
SAR-3 N64-27236 19-17

MEASURING LOW PERCENTAGES OF RETAINED AUSTENITE AND MARTENSITE WITH USE OF FILTERED X-RAYS AND X-RAY DIFFRACTOMETER
SA-TR-2408 N64-31622 23-17

AUSTRALIA
IONOSPHERIC DATA FOR AUGUST 1962 FROM WOOMERA, SOUTH AUSTRALIA
CPD-1962/8/W/ N64-10227 01-12

IONOSPHERIC DATA FOR SEPT. 1962, FROM WOOMERA, AUSTRALIA
CPD-1962/9/W/ N64-10228 01-12

IONOSPHERIC PARAMETER DATA, WOOMERA, AUSTRALIA
CPD 1962/10/W/ N64-10524 01-12

WOOMERA IONOSONDE IONOSPHERIC DATA FOR NOV 1962
CPD 1962/11/W/ N64-11996 03-12

IONOSPHERIC DATA FROM WOOMERA, SOUTH AUSTRALIA
CPD-1963/6/W/ N64-15983 07-12

TABLES OF HOURLY VALUES OF IONOSPHERIC PARAMETERS FROM SOUTH AUSTRALIA
CPD-1962/12/S/ N64-19718 12-12

TABLES OF HOURLY VALUES OF IONOSPHERIC PARAMETERS FROM SOUTH AUSTRALIA
CPD-1963/6/S/ N64-19719 12-12

IONOSPHERIC DATA TABULATIONS IN AUSTRALIA
CPD-1963/7/S/ N64-20614 13-12

IONOSPHERIC DATA FOR JANUARY, 1963 FOR SALISBURY, SOUTH AUSTRALIA
CPD-1963/1/S/ N64-21198 14-12

IONOSPHERIC DATA FOR FEBRUARY, 1963 FROM SALISBURY, SOUTH AUSTRALIA
CPD-1963/2/S/ N64-21199 14-12

IONOSPHERIC DATA FOR MARCH, 1963 FROM SALISBURY, SOUTH AUSTRALIA
CPD-1963/3/S/ N64-21200 14-12

IONOSPHERIC DATA FOR MAY, 1963 FROM SALISBURY, SOUTH AUSTRALIA
CPD-1963/5/S/ N64-21201 14-12

MISSILE RANGES IN GREAT BRITAIN AND AUSTRALIA
N64-22874 16-10

IONOSPHERIC DATA FOR SEPTEMBER 1963 FROM WOOMERA, SOUTH AUSTRALIA
CPD-1963/9/W/ N64-23282 16-12

IONOSPHERIC DATA FOR WOOMERA AUSTRALIA IN OCTOBER 1963
CPD-1963/10/W/ N64-28252 20-12

IONOSPHERIC DATA FOR NOVEMBER 1963 - AUSTRALIA
N64-28861 20-12

ATMOSPHERIC OZONE MEASUREMENTS FOR SALISBURY, SOUTH AUSTRALIA
WRE-TN-PAD-86 N64-28866 20-21

CHARACTERISTICS OF IONOSONDE AND HOURLY VALUES OF IONOSPHERIC DATA - AUSTRALIA
CPD-1963/12/S N64-33737 24-12

TABULATION OF IONOSPHERIC DATA - AUSTRALIA
CPD-1963/11/W/ N64-33984 24-12

AUTOCLAVE PROCESS
CF POWDER METALLURGY
ELECTROLYTIC & AUTOCLAVE PRODUCTION OF RHENIUM POWDER
JPRS-17937 N64-10727 02-18

PRODUCTION OF RHENIUM FROM POTASSIUM PERRHENATE BY AUTOCLAVE PROCESS N64-10728 02-19

AUTOCODER
MACROPROGRAMMING TO GENERATE AUTOCODER INSTRUCTIONS FOR FREE FORMAT SCAN OF CORE AREA - IBM 7070 COMPUTER
IS-765 N64-14418 06-20

AUTODYNE
S HETERODYNE

AUTOKINESIS
CF ACCELERATION STRESS
CF MOTION
ROTARY AUTOKINESIS AND DISPLACEMENT OF THE VISUAL HORIZONTAL ASSOCIATED WITH HEAD AND BODY POSITION
N64-11396 02-14

FREQUENCY AND DIRECTION OF MOVEMENT IN AUTOKINETIC ILLUSION
TR-10 N64-26278 18-14

AUTOMATIC CONTROL
SA CYBERNETICS
INERTIAL SIMULATOR WITH AUTOMATIC DAMPING CONTROL SUITABLE FOR ROTATING MANNED SPACE STATION
NASA-CR-50791 N64-10346 01-10

LOGARITHMIC AMPLITUDE CHARACTERISTICS FOR CALCULATING ENTROPY OF RANDOM PROCESSES RELATED TO AUTOMATIC CONTROL SYSTEMS
JPRS-19242 N64-10583 01-09

AUTOMATIC CONTROL OF NONSTATIONARY PARAMETERS AND PARAMETRIC FIELDS - MONITOR
JPRS-17695 N64-10630 01-06

CYBERNETIC FEATURES OF HUMAN OPERATORS IN AUTOMATIC CONTROL SYSTEMS
JPRS-17544 N64-10695 02-16

SEMIAUTOMATIC TELESCOPE FOR SATELLITE TRACKING WITH PRECISE GUIDANCE UNDER MANUAL CONTROL
N64-10721 02-08

CLASSIFICATION OF AUTOMATION SYSTEMS BY CONTROL PRINCIPLES - CONTROL BY DEVIATION & PERTURBATIONS
JPRS-18307 N64-10755 02-06

STUDIES OF LEARNING MACHINE AND DIGITAL INTEGRATOR AND METHODS FOR CODING IN AUTOMATIC CONTROL
JPRS-19518 N64-10826 02-20

PERCEPTRON - MACHINE FOR LEARNING SIMILAR IN OPERATION TO HUMAN BRAIN N64-10827 02-20

ACCURACY OF DIGITAL AND ANALOG COMPUTERS FOR AUTOMATIC CONTROL IN COMBINED DIGITAL INTEGRATOR SYSTEM N64-10828 02-20

DEFINITION AND CLASSIFICATION FOR SYNCHRONIZING CODING SYSTEMS OF AUTOMATIC CONTROL SYSTEMS
N64-10829 02-20

AUTOMATIC CONTROL OF MULTIVARIABLE, ADAPTIVE, OPTIMAL, SELF-ORGANIZING SYSTEMS AND PERTURBATION METHOD IN ADAPTATION AND FEEDBACK
N64-10830 02-20

SELF-ADJUSTING SYSTEMS OF AUTOMATIC CONTROL BASED ON SOLUTION OF VARIATIONAL PROBLEMS AND ON INVARIANCE N64-11037 02-20

OPTIMIZATION OF AUTOMATA WITH PROGRAMMED CONTROL - GALVANIZING MACHINE
JPRS-19007 N64-11061 02-20

AUTOMATIC, GYROSCOPIC CONTROL SYSTEM INVARIANCE AS FUNCTION OF DISTURBANCES & SCALAR CONTROL VARIABLE
N64-11369 02-06

AUTOMATIC CONTROL SYSTEM FOR KIWI B-1B REACTOR - MATHEMATICAL MODELS DERIVED AND BUILT FROM ANALOG COMPUTER COMPONENTS
LAMS-2966 N64-11476 03-20

GAME THEORY APPLICATION TO PROBLEMS OF AUTOMATIC CONTROL N64-11613 03-20

LINEAR AUTONOMOUS SYSTEM WITH SINGLE CONTROL VARIABLE
NASA-CR-52929 N64-11739 03-20

DIFFERENTIAL EQUATION FOR AUTOMATIC CONTROL SYSTEMS TO CONTROL OBJECT MOTION WITHIN WIDE RANGE OF PARAMETERS
JPRS-22343 N64-11915 03-06

AUTOMATIC RADAR GROUND STATION FOR MEASURING COORDINATES OF GROUND TARGETS
JPRS-22384 N64-11919 03-04

TECHNICAL-ECONOMICAL APPROACH TO SELECTION OF BASIC PARAMETERS FOR NEW TECHNICAL MEANS OF AUTOMATIC CONTROL - CYBERNETICS
N64-12454 04-20

RIGIDITY OF MOTION IN SLIDING HYPERPLANE FOR AUTOMATIC CONTROL SYSTEMS WITH VARIABLE STRUCTURE - CYBERNETICS N64-12466 04-20

CELLULAR AUTOMATIC CONTROL OF ENZYMATIC TRANSFER OF NUCLEOSIDE SUBSTANCES N64-12510 04-16

AUTOMATIC CONTROL APPARATUS IN CYBERNETICS
N64-12514 04-16

PLANT AND ANIMAL AUTOMATIC CONTROL MECHANISMS - INTERNAL PROCESS SELF-REGULATION - CYBERNETICS
N64-12529 04-16

AUTOMATIC TUNING SYSTEM - OPTIMIZATION OF FERRITE SWITCH BY VARYING FERRITE PARAMETERS
N64-12741 04-09

PARAMETRIC AMPLIFIER EFFECT ON STABILITY OF AUTOMATIC CONTROL SYSTEMS N64-13568 05-04

AUTOMATIC LATITUDE COMPASS WITH GYROSCOPE
N64-13574 05-22

MULTIRANGE AUTOMATIC BRIDGE AND POTENTIOMETER WITH MEASURING SYSTEM FOR RESISTANCE THERMOMETER AND THERMOCOUPLE GROUPS N64-13581 05-15

AUTOMATIC CONTROL AND POINTING SYSTEM FOR AZIMUTHAL TELESCOPE N64-13602 05-06

AUTOMATIC CONTROL SYSTEM FOR TELESCOPES
N64-13605 05-20

AUTOMATIC CONTROL OF VTOL AIRCRAFT IN HOVERING FLIGHT N64-13923 05-04

DIGITAL COMPUTER APPROXIMATION OF AUTOMATIC CONTROL PIECEWISE LINEAR SYSTEMS BY INTEGRAL EQUATIONS N64-14261 06-20

TIME-OPTIMUM AUTOMATIC CONTROLLER FOR EXPERIMENTAL BREEDER REACTOR-II, ON-OFF TYPE ANL-6695 N64-14430 06-23

CYBERNETICS & AUTOMATIC CONTROL SYSTEMS JPRS-18127 N64-14613 06-16

APPLICATION OF LIAPUNOV METHOD TO INVESTIGATION OF STABILITY OF MOTION OF NONLINEAR DISCONTINUOUS SYSTEMS - AUTOMATIC CONTROL NH-TRANS-384 N64-14804 06-20

FUNCTION OF FINGERS AND AUTOMATIC CONTROL OF ARTIFICIAL FINGERS FOR ENGINEERING N64-15557 07-16

AUTOMATIC CONTROL SYSTEMS IN THEORY AND PRACTICE JPRS-23613 N64-16669 08-06

FAILURE-CORRECTING TECHNIQUES APPLIED TO AUTOMATIC FLIGHT CONTROL SYSTEMS REPT.-63APJ13 N64-17149 09-22

DYNAMIC PROCESSES IN PIECEWISE LINEAR AUTOMATIC CONTROL SYSTEMS NASA-TT-F-132 N64-17733 09-09

AUTOMATIC CONTROL FOR SPACE NAVIGATION FTD-TT-63-608/1 N64-18693 11-22

STATISTICAL DYNAMICS OF LINEAR SYSTEMS AND OPTIMAL SYSTEMS OF AUTOMATIC CONTROL FTD-TT-63-468/1&2&4 N64-19748 12-20

SYSTEMS FOR AUTOMATIC CONTROL OF ROTATION OF RIGID BODY REPT. 63-23 N64-19893 12-20

PLACE - PROGRAMMING LANGUAGE FOR AUTOMATIC CHECKOUT EQUIPMENT RTD-TDR-4171, VOL. 2 N64-20108 13-20

PLACE - PROGRAMMING LANGUAGE FOR AUTOMATIC CHECKOUT EQUIPMENT AND ADAPTATIONS FOR DIGITAL COMPUTER CONTROLLED CHECKOUT MACHINE RTD-TDR-4171, VOL. 1 N64-20171 13-20

AUTOMATIC CHECKOUT EQUIPMENT FOR ACCELEROMETERS N64-20243 13-15

MINATURE NONLINEAR ELECTRONIC SIMULATOR FOR STUDYING SYSTEMS DYNAMICS AND OBJECTS UNDER AUTOMATIC CONTROL FTD-TT-62-1236/1&2 N64-21652 15-10

PRINCIPLES FOR BUILDING COMBINATION AUTOMATIC CONTROL SYSTEM WITH VARIABLE STRUCTURE JPRS-24767 N64-21827 15-09

AUTOMATIC HOMING AND COMBINED ROCKET GUIDANCE SYSTEMS FTD-TT-64-84/1&2&3&4 N64-22157 15-22

AUTOMATIC AND MANUAL CONTROL OF MANNED SPACECRAFT FTD-TT-63-24/1 N64-22338 15-32

MATHEMATICS - STATISTICAL LINEARIZATION THEORY APPLIED TO NONLINEAR AUTOMATIC CONTROL SYSTEMS FTD-TT-62-1385/1&2&4 N64-22623 15-20

INVARIANCE OF PULSED AUTOMATIC CONTROL SYSTEMS N64-23081 16-09

AUTOMATIC CONTROL OF WATER LEVEL SUPPORTING STRUCTURES IN IRRIGATION CHANNELS N64-23084 16-09

AUTOMATICALLY CONTROLLED THROTTLE DRIVE N64-23086 16-09

FORCED OSCILLATIONS IN NONLINEAR AUTOMATIC CONTROL SYSTEM N64-23089 16-23

AUTOMATIC CONTROL FOR STABILIZATION OF ARC WELDING PROCESS N64-23092 16-17

SYMMETRICAL ONE-FREQUENCY FORCED OSCILLATION IN NONLINEAR AUTOMATIC CONTROL SYSTEM N64-23484 16-06

ELECTROMAGNETIC TORQUE OF TWO-PHASE ASYCHRONOUS MOTOR FOR AUTOMATIC CONTROL SYSTEMS N64-23538 16-09

AUTOMATIC CONTROL OF AIRCRAFT ENGINES FTD-TT-63-746/1&2&4 N64-23589 16-01

AUTOMATIC CONTROL OF NUCLEAR POWERPLANTS N64-23591 16-04

AUTOMATIC SYSTEMS - REGULATOR WITH CONTROL QUALITIES N64-23592 16-04

AUTOMATIC CONTROL OF NONSTEADY ENGINE WITH ASTATIC TEMPERATURE REGULATOR N64-23593 16-04

DYNAMIC PROPERTIES OF TURBOJET ENGINES AS UNITS IN AUTOMATIC FLIGHT CONTROL SYSTEMS N64-23594 16-06

TURBOJET ENGINE AND TURBOJET WITH AFTERBURNER AS UNIT IN AUTOMATIC AIRCRAFT CONTROL SYSTEMS N64-23595 16-06

AUTOMATIC CONTROL OF ALGAL CULTIVATION CONDITIONS N64-23779 16-16

PASSIVE & ACTIVE FLUID COMPONENTS IN ANALOG COMPUTATION & AUTOMATIC CONTROL N64-23825 16-11

AUTOMATIC CONTROL THEORY EQUATIONS NASA-CR-56649 N64-24022 16-06

STATIC ACCURACY OF CLOSED SYSTEMS WITH RANDOM PROPERTIES - AUTOMATIC CONTROL SYSTEM N64-24514 17-09

AUTOMATIC CONTROL OF ELECTRONIC DIGITAL COMPUTER FUNCTIONS N64-24693 17-20

OPTIMUM TRANSFER FUNCTION FOR AUTOMATIC CONTROL SYSTEM N64-24702 17-20

LAPLACE DIFFERENTIAL EQUATIONS FOR AUTOMATIC CONTROL SYSTEMS UNDER RANDOM EFFECTS N64-24704 17-6

AUTOMATIC CONTROL SYSTEMS WITH VARIABLE STRUCTURE HAVING DISCONTINUOUS SWITCHING FUNCTION N64-24706 17-16

MODELING OF AUTOMATIC CONTROL SYSTEMS AND NEURAL NETS JPRS-25097 N64-24711 17-06

CESIUM VAPOR AUTOMATIC CONTROL SYSTEMS FOR ELECTRON BOMBARDMENT AND CONTACT ION ENGINES AIAA PAPER-64-504 N64-25177 17-27

AUTOMATIC CONTROL OF AIRCRAFT ENGINES FTD-TT-63-745/1&2&4 N64-25431 17-01

DYNAMIC EQUATIONS OF AIR INTAKE & CONTROL SYSTEMS FOR TURBOJET ENGINES OPERATING IN TURBULENT ATMOSPHERES N64-25434 17-04

STABILIZATION OF AUTOMATIC CONTROL SYSTEM WITH VARIABLE STRUCTURE FTD-TT-63-1110/1&2&4 N64-25456 17-09

AUTOMATIC REGULATION OF CONTINUOUSLY OPERATING METAL WORKING FURNACES JPRS-25288 N64-26058 18-06

SYNTHESIZING OPTIMAL DISCRETE CONTROL IN AUTOMATIC CONTROL SYSTEMS USING POLYNOMIAL EQUATIONS FTD-TT-64-333/1&4 N64-26120 18-20

CYBERNETICS - MECHANICS OF AUTOMATIC CONTROL SYSTEMS JPRS-25169 N64-26376 18-09

ANALYZING STABILITY OF LINEAR AUTOMATIC CONTROL SYSTEMS USING LIAPUNOV FUNCTIONS
N64-26383 18-09

SYNTHESIS OF NONLINEAR AUTOMATIC CONTROL SYSTEMS WITH VARIABLE STRUCTURE
N64-26390 18-20

STABILIZATION METHOD FOR CONTROL SYSTEM WITH VARIABLE STRUCTURE
N64-26391 18-09

MOTION STABILITY OF AUTOMATIC CONTROL SYSTEMS WITH VARIABLE STRUCTURE
N64-26393 18-09

DESIGN OF AUTOMATIC CONTROL SYSTEMS CONTAINING LINKS WITH VARIABLE PARAMETERS
N64-26395 18-09

TIME-OPTIMAL CONTROL SYSTEMS AND AUTOMATIC OPTIMIZATION OF CONTROL CIRCUITS
FTD-TT-63-409/1&2
N64-26724 18-09

AUTOMATIC COMPUTER CONTROL SYSTEM FOR STOPPING A MELT AT GIVEN CARBON CONTENT IN BESSEMER CONVERSION OF FERROUS METALS TO STEEL
JPRS-25762
N64-26748 18-17

AUTOMATIC PHASE CONTROL SYSTEM WITH DIVIDING CAPACITOR IN FEEDBACK LOOP
N64-29471 21-09

AUTOMATIC DOPPLER CONTROL FOR ANTENNA POINTING SYSTEM
GR-1964-35
N64-29731 21-08

SIMULATION OF NEW CONTROL CONCEPT FOR AUTOMATIC TERRAIN FOLLOWING IN HIGH SPEED, LOW ALTITUDE AIRCRAFT PENETRATION
FDL-TDR-64-104
N64-29975 21-06

INTERVENING LEVELS OF CONTROL BETWEEN FULL MANUAL AND FULL AUTOMATIC - EFFECT UPON PILOT PERFORMANCE
AD-441953
N64-30199 21-14

CYBERNETICS - AUTOMATIC GONTROL SYSTEMS, ERRORS, SERVOMECHANISMS, LINEAR & NONLINEAR SYSTEMS, AND RELIABILITY
JPRS-26336
N64-30207 22-01

PROBABILITY OF ERROR IN AUTOMATIC CONTROL SYSTEMS WITH RANDOM PARAMETERS OF CONTROL
N64-30221 22-09

PROBABILITY OF ACCURACY AND RELIABILITY IN AUTOMATIC CONTROL SYSTEMS
N64-30226 22-17

NONLINEAR SYSTEMS OF AUTOMATIC CONTROL WITH EXTERNAL COMPENSATION FOR SLACK IN MECHANICAL TRANSMISSION LINKAGE
N64-30227 22-09

RECORDING APPARATUS FOR OPERATOR SENSORIMOTOR PERFORMANCE IN AUTOMATIC AND SEMIAUTOMATIC CONTROL SYSTEMS
N64-30322 22-15

NUMERICALLY-CONTROLLED THREE-AXIS MACHINE TOOLS
N64-30370 22-17

BEYOND-LINE-OF-SIGHT TRANSMISSION USING AUTOMATIC BEAM-STEERING ARRAY TECHNIQUES
REPT.-2900-491-T
N64-30588 22-08

AUTOMATIC COMPARATOR FOR SPECTRAL MEASUREMENTS
LA-3100
N64-30820 22-15

CALCULATION METHODS FOR FREE AND FORCED OSCILLATIONS OF NONLINEAR AUTOMATIC SYSTEMS - AUTOMATIC CONTROL THEORY
FTD-TT-63-125/1&2
N64-31697 23-09

SYNTHESIS OF AUTOMATIC CONTROL SYSTEMS WITH VARIABLE PARAMETERS BY FROZEN WEIGHTING FUNCTION
N64-31857 23-09

LOW POWER STEPPER MOTORS FOR AUTOMATIC CONTROL
N64-31859 23-09

OPTIMUM LOAD DROPPING - AUTOMATIC STOPPING AND REVERSAL IN HIGH SPEED HEAVILY LOADED MACHINES
FTD-MT-64-222/1&2
N64-31885 23-17

SELF-CONTAINED CONTROL SYSTEMS OF BALLISTIC MISSILES
FTD-MT-64-300
N64-32242 23-04

AUTOMATIC CONTROL SYSTEM FOR HIGH FLUX NUCLEAR REACTOR
LFEN-18/BETA/
N64-32327 23-06

OPTIMIZATION CRITERIA FOR AUTOMATIC COMPUTER AND CONTROL SYSTEMS
FTD-TT-63-1107/1&2&4
N64-32811 24-01

DIGITAL SERVOMECHANISM FOR AUTOMATIC CONTROL SYSTEM EMPLOYING PULSE FREQUENCY FEEDBACK
NASA-CR-59064
N64-32987 24-09

DIGITAL COMPENSATOR FOR AUTOMATIC CONTROL SYSTEMS
NASA-CR-59053
N64-32988 24-06

RELAY SYSTEMS AND AUTOMATIC CONTROL TECHNOLOGY - CONFERENCE
FTD-MT-63-257
N64-33702 24-09

AUTOMATIC DATA PROCESSING SYSTEM

CATALOG OF MAPPING PROCEDURES FOR TIROS II RADIATION DATA UTILIZING AUTOMATIC DATA-PROCESSING EQUIPMENT
NASA-TM-X-51116
N64-10602 01-21

CATALOG OF MAPPING PROCEDURES FOR TIROS III RADIATION DATA UTILIZING AUTOMATIC DATA-PROCESSING EQUIPMENT
NASA-TM-X-51117
N64-10603 01-21

HUMAN ENGINEERING IN AUTOMATIC DATA PROCESSING FOR INFORMATION RETRIEVAL
JPRS-19100
N64-10814 02-16

AUTOMATIC DATA PROCESSING TECHNIQUES FOR STATISTICAL EVALUATION OF ROCKET MOTOR PERFORMANCES
RK-TR-63-23
N64-12222 03-01

AUTOMATIC PROGRAMMING, CONTROLLING, AND RECORDING MACHINE FOR DATA ACQUISITION & CONTROL SYSTEM APPLICATION
SC-4944/RR/
N64-13233 04-20

MANUAL METHOD OF ANALYSIS OF BIOMEDICAL DATA FOR FEASIBILITY STUDY OF CONVERSION TO AUTOMATIC DATA PROCESSING SYSTEM
TM-1210/000/01
N64-19919 12-16

PULSE CODE MODULATION DATA PROCESSOR OF SATELLITE TELEMETRY AUTOMATIC REDUCTION SYSTEM - HANDBOOK
NASA-TM-X-55069
N64-29189 21-20

MATHEMATICAL MODELS SYSTEM DEVELOPMENT FOR USE WITH LARGE-SCALE AUTOMATIC COMPUTERS
USNRDL-TR-749
N64-30958 22-20

AUTOMATIC TARGET DATA PROCESSOR - RADAR VIDEO DIGITIZER AND AZIMUTH DIGITIZER
RD-64-124
N64-33994 24-08

AUTOMATIC LANDING SYSTEM

PROTOTYPE RADAR ALTIMETER FOR ALTITUDE DATA INPUT OF AUTOMATIC LANDING SYSTEM
N64-10160 01-09

AUTOMATIC & MANUAL LANDING SYSTEM - FLIGHT TEST
AGARD-425
N64-13447 05-10

AUTOMATIC FLAREOUT PERFORMANCE - BLIND LANDING SYSTEM
AGARD-424
N64-13880 05-04

AUTOMATIC LANDING SYSTEM FOR LOW LIFT-DRAG GLIDE VEHICLES
TDR-269/4540-50/-1
N64-16588 08-22

ANALOG COMPUTER SIMULATION OF EFFECT ON AUTOMATIC LANDING SYSTEM PERFORMANCE OF OVERFLIGHT INTERFERENCE WITH LOCALIZER
N64-19166 11-10

AUTOMATIC GUIDANCE AND LANDING SYSTEM FOR AIRCRAFTS
N64-21053 14-06

EVALUATION OF BLEU AUTOMATIC LANDING SYSTEM
AD-600829
N64-26503 18-04

INTEGRATION OF RADAR ALTIMETER INTO AUTOMATIC

LANDING SYSTEM
REPT.-1116-1 N64-30367 22-15

AUTOMATIC LIGHT AIRCRAFT READINESS MONITOR PROJEC
ALARM - PORTABLE AIRCRAFT CONDITION EVALUATOR RECORDER
TRECOM-TR-63-48 N64-14500 06-04

AUTOMATIC PATTERN RECOGNITION
PHYSIOLOGICAL STUDIES OF SPEECH PROCESS FOR CONSTRUCTING AUTOMATIC SPEECH RECOGNITION SYSTEMS
N64-23767 16-16

MINIMIZATION OF DESCRIPTIONS IN AUTOMATIC PATTERN RECOGNITION N64-30209 22-20

AUTOMATIC PICTURE TRANSMISSION /APT/
CF TELEVISION TRANSMISSION
PERFORMANCE OF GROUND RECEIVING SYSTEM FROM AUTOMATIC PICTURE TRANSMISSIONS FROM TIROS VIII SATELLITE
TR-2660 N64-32613 23-15

AUTOMATION
AUTOMATIC TELEMETERING HYDROMETEOROLOGICAL SYSTEM TO INCREASE ACCURACY IN WEATHER FORECASTING
N64-10203 01-12

STRUCTURAL METHODS IN THEORY OF CONTROL AND ELECTRIC AUTOMATION
JPRS-19084 N64-10508 01-09

CONTRIBUTIONS OF AUTOMATION TO PHOTO INTERPRETER FUNCTIONS - OPTICAL PROCESSING AND TEXTURAL ANALYSIS N64-10527 01-14

PNEUMATIC-HYDRAULIC AUTOMATION
JPRS-17469 N64-10560 01-17

AUTOMATIC DRIVING SYSTEM FOR CRAWLER-MOUNTED PLOWING UNIT BY SIMULATION
JPRS-17525 N64-10628 01-20

CONTROL AND REGULATION, ALGORITHMIC DESCRIPTION, AUTOMATED REPAIR, AND AUTOMATION - CYBERNETICS
JPRS-18569 N64-10778 02-01

CYBERNETICS IN EDUCATION AND AUTOMATION
JPRS-18832 N64-11058 02-16

CYBERNETICS AND AUTOMATION IN TERMS OF PRODUCTION PROCESSES N64-11060 02-16

CONSTRUCTION & OPTIMAL CONTROL OF AUTOMATIC MACHINES - CYBERNETICS
JPRS-22188 N64-11416 02-16

COMPUTER PROGRAMMING - SELF-ORGANIZATION, MEDICAL DIAGNOSTICS, CODE CONVERSION, CYBERNETICS, PERCEPTRONS, AND DEVELOPMENTS IN AUTOMATION
JPRS-17688 N64-11529 03-01

AUTOMATION AND COMPUTER PROGRAMMING
JPRS-17761 N64-11610 03-01

THEORY AND APPLICATION OF DISCRETE AUTOMATIC SYSTEMS N64-11616 03-20

EXPERIMENTS IN PERT AUTOMATED TRAINING IN DECISION MAKING
ESD-TDR-63-606 N64-11762 03-01

AUTOMATION IN INDUSTRY AND INSTRUMENTATION FOR REMOTE CONTROL NAVIGATION OF SHIPS - CYBERNETICS
JPRS-22345 N64-11917 03-16

PNEUMATIC CIRCUITS AND SYSTEMS FOR CONTROL, HYDRAULIC CONTROL, AND DRIVE SYSTEMS - AUTOMATION
JPRS-22570 N64-12147 03-06

THEORIES ABOUT REGULAR BASES OF SETS OF WORDS - MATHEMATICAL ANALYSIS OF AUTOMATION & LANGUAGE
N64-12303 03-20

AUTOMATION OF CONTROL PROCESSES FOR LARGE COMPLICATED SYSTEMS - CYBERNETICS
N64-12456 04-06

SYNTHESIS OF MULTIVARIATE AUTOMATIC SYSTEMS FROM EQUIVALENT INITIAL CONDITIONS AND PRINCIPLE OF INVARIANCE - CYBERNETICS N64-12470 04-20

CYBERNETICS AND AUTOMATION - HIGHER NERVOUS ACTIVITY OF MIND AS MODEL FOR COMPLEX MACHINES
FTD-TT-63-765/1 N64-12621 04-16

GYROSCOPIC, ELECTRONIC, AUTOMATIC, OPTIC, AND THERMAL INSTRUMENTS
JPRS-22479 N64-13565 05-01

PERFORMANCE OF ELECTRICAL CIRCUIT WITH VACUUM PHOTOTUBE AT REDUCED VOLTAGE-SUPPLYING CURRENT TO INCANDESCENT LAMP N64-13567 05-09

PARAMETRIC AMPLIFIER EFFECT ON STABILITY OF AUTOMATIC CONTROL SYSTEMS N64-13568 05-06

APPROXIMATE DIFFERENTIATION OF CONTINUOUS PULSE FREQUENCY DATA TRANSMISSION BY ELECTRONIC CIRCUIT
N64-13569 05-08

SYNTHESIS OF AUTOMATIC SYSTEM WITH DIGITAL CONTROLLING MACHINE N64-13570 05-06

ELECTRICAL PRESSURE PICKUP USED IN TACHOMETER TO MEASURE GYROSCOPIC SPEED AND ACCELERATION CHANGES
N64-13572 05-15

AUTOMATIC RECORDING ANALYTICAL BALANCE
K-1593 N64-14736 08-15

AUTOMATED INFORMATION SYSTEMS IN PLANNING, CONTROL, AND COMMAND N64-15170 07-20

MECHANIZATION OF SELF-CONTAINED NAVIGATION SYSTEM FOR MULTIPHASED SPACE MISSION N64-16171 08-22

GROUP THEORY - ALGEBRAIC GENERALIZATION OF AUTOMATON OF REGULAR EVENTS
AROD-4049-4 N64-16044 08-20

CYBERNETICS - AUTOMATION, LOGICAL MACHINES, CONTROL, IMPROBABILITY, FEEDBACK, ALGEBRA, AND COMPUTERS
JPRS-23554 N64-17242 09-16

MICRO-OPERATION SEQUENCES IN MICROPROGRAM BY SINGLE AUTOMATIC CONTROL DEVICE - DIGITAL COMPUTER
JPRS-23816 N64-17349 09-20

STRUCTURAL SYNTHESIS - AUTOMATED OPTIMUM DESIGN USING LOGICAL DECISIONS BASED ON STORED TECHNOLOGY DATA
NASA-CR-56480 N64-22422 15-34

AUTOMATION AND CONTROL SYSTEMS
FTD-TT-62-1521/1&2 N64-23080 16-17

AUTOMATIC VOLTAGE REGULATOR FOR PROTECTION OF UNDERGROUND INSTALLATIONS FROM CORROSION
N64-23090 16-09

MECHANIZATION AND AUTOMATION OF MACHINE TOOL CONTROL
FTD-TT-62-1246/1&2 N64-23403 16-20

ALGORITHM FOR OPTIMIZATION OF COMBINATION LOGICAL DESIGNS CONSTRUCTED FROM SINGLE FUNCTIONAL ELEMENTS - AUTOMATON N64-24689 17-20

ADVANTAGES AND DISADVANTAGES OF AUTOMATION IN STUDYING ACTIVITY OF HIGHER NERVOUS SYSTEMS
JPRS-25861 N64-27068 19-14

MECHANIZATION AND AUTOMATION IN FERROUS METALLURGY
JPRS-26280 N64-28399 20-10

AUTOMATIC INDICATION OF OPERATING FAILURES OF DISCRETE SYSTEMS N64-29136 21-15

AUTOMATION OF COMPUTER PROGRAMMING
JPRS-26430 N64-29625 21-20

POLAROGRAPH FOR AUTOMATIC CURVE PLOTTING
FTD-TT-63-693/1 N64-30131 21-15

QUATERNIONS USED IN RERESENTATION OF ANGULAR COORDINATES

NASA-TT-F-9101 N64-31331 22-20

MEASURING DEVICE FOR AUTOMATION AND MECHANIZATION OF CONTROL, AND TIME INTERVAL-NUMBER FUNCTION GENERATOR
JPRS-27005 N64-33150 24-09

AUTOMATON
FINITE AUTOMATA AND LINEAR PROGRAMMING
JPRS-21444 N64-10047 01-20

CARDINAL NUMBERS OF SETS OF PRECOMPLETE CLASSES OF CERTAIN FUNCTIONAL SYSTEMS CONNECTED WITH AUTOMATA N64-10048 01-20

ZERO SUM GAME BETWEEN FINITE AUTOMATON AND PARTNER USING MIXED STRATEGY - APPLICATION OF VON NEUMANN THEOREM
JPRS-19243 N64-10584 01-20

OPTIMIZATION OF AUTOMATA WITH PROGRAMMED CONTROL - GALVANIZING MACHINE
JPRS-19007 N64-11061 02-20

POSSIBILITY OF MODELING HUMAN NERVOUS ACTIVITY USING SELF-REGULATORY PROCESSES IN AUTOMATONS - CYBERNETICS
JPRS-22185 N64-11599 03-20

CONTROL OF RANDOM WANDERING OF AUTOMATON WHEN INTERNAL NOISES ARE PRESENT - CYBERNETICS N64-12460 04-20

INVESTIGATION OF STATISTICAL RELAY EFFECT AUTOMATONS WHEN STOCHASTIC DISTURBANCES ARE PRESENT - CYBERNETICS N64-12461 04-20

BIBLIOGRAPHY ON AUTOMATA, LOGIC & COMPUTATION, NEUROPHYSIOLOGY, AND SWITCHING IN THEORETICAL DEVICES
AFCRL-63-515 N64-13622 05-20

MECHANIZATION OF MENTAL PROCESSES AND DESIGN OF TALKING AUTOMATON - CYBERNETICS
RADC-TDR-63-528 N64-15726 07-16

ALGORITHM THEORY FOR APPLICATION TO CONSTRUCTIVE PROCESSES AND SYNTHESIS OF DIGITAL AUTOMATA
NIJS-R-418 N64-15839 07-20

MONADIC ALGEBRA FOR STUDY OF AUTOMATA
AROD-4049-3 N64-16505 08-20

LATTICE-ORDERED SEMIGROUPS, GRAPHS, AND AUTOMATA - W-NETWORKS
MRC-451 N64-18035 10-20

AUTOMATA THEORY APPLIED TO SEQUENTIAL MACHINES - SWITCHING CIRCUITS
R-168 N64-19397 12-17

PROBABILITY STATE VARIABLE SYSTEMS - MONOTYPE SYSTEM THEORY & CONSIDERATIONS FROM AUTOMATA THEORY N64-19934 12-20

ALGORITHM FOR OPTIMIZATION OF COMBINATION LOGICAL DESIGNS CONSTRUCTED FROM SINGLE FUNCTIONAL ELEMENTS - AUTOMATON N64-24689 17-20

MATRIX ANALYSIS OF TRANSFER STATE OF NONSYNCHRONOUS FINITE AUTOMATONS N64-24690 17-16

SELF ADJUSTING SYSTEM WITH PATTERN N64-24700 17-16

AUTOMATON - DIFFERENTIAL EQUATIONS FOR OPTIMAL CONTROL PROBLEMS N64-24701 17-20

PROCESS OPTIMIZATION WHEN SOLVING PROBLEMS OF SYNTHESIS OF DISCRETE AUTOMATA N64-27165 19-20

CYBERNETICS - AUTOMATONS, COMPUTERS, AUTOMATIC CONTROL
JPRS-26201 N64-28050 20-16

CYBERNETICS - STABLE SUPPLEMENT TO DEFINITION OF PARTIAL AUTOMATONS N64-29745 21-20

AUTOMORPHISM
GROUP THEORY - AUTOMORPHIC FORMS AND POINCARE SERIES FOR FINITELY GENERATED FUCHSIAN GROUPS - DIFFERENTIAL EQUATIONS
IMM-NYU-318 N64-18873 11-20

AUTONOMIC NERVOUS SYSTEM
CF CENTRAL NERVOUS SYSTEM
COMPARISON OF AUTONOMIC AND SOMATIC MOTOR OUTPUTS TO VESTIBULAR STIMULATION - MOTION SICKNESS STUDY
NASA-RP-215 N64-23377 16-14

AUTONOMIC NERVOUS SYSTEM REACTIONS FROM STIMULATION OF VESTIBULAR ANALYZER N64-23762 16-14

AUTOROTATION
AERODYNAMICS OF LOW-DENSITY, AUTOROTATING WINGS FOR MANNED ATMOSPHERIC REENTRY N64-10044 01-02

AUXILIARY POWER SOURCE
SA SYSTEM FOR NUCLEAR AUXILIARY POWER /SNAP/ PROGRAM
BRUSHLESS ROTATING ELECTRICAL GENERATORS FOR SPACE AUXILIARY POWER SYSTEMS
NASA-CR-52915 N64-11741 03-06

BRUSHLESS ROTATING ELECTRICAL GENERATORS FOR SPACE AUXILIARY POWER SYSTEMS - MAGNETIC STEEL
NASA-CR-52916 N64-11742 03-18

HYDROGEN-OXYGEN FUELED AUXILIARY ELECTRIC POWER GENERATING SYSTEM FOR USE IN SPACE VEHICLES
NASA-CR-55060 N64-11819 03-06

ANNOTATED BIBLIOGRAPHY OF AUXILIARY POWER SYSTEMS FOR SPACECRAFT - SOLAR AND NUCLEAR AUXILIARY POWER SOURCES
SB-63-46 N64-12674 04-06

NUCLEAR LIQUID METAL CELL SYSTEM FOR SPACE POWER SUPPLIES N64-17411 09-06

RADIOISOTOPE FUELED AUXILIARY POWER UNIT FOR ADVANCED RECONNAISSANCE SPACECRAFT
MND-1123 N64-20195 13-06

RADIOACTIVE ISOTOPE FUELED UNIT AS AUXILIARY POWER SOURCE
MND-P-1175 N64-20196 13-06

RADIOACTIVE ISOTOPE FUELED UNIT AS AUXILIARY POWER SOURCE
MND-P-3001 N64-20197 13-06

SAFETY TESTING AND ANALYSIS OF MODIFIED NUCLEAR AUXILIARY POWER REACTOR
IDO-16825 N64-20487 13-06

AUXILIARY POWER SOURCE AND SUBSYSTEMS FOR X-20 AIRCRAFT /DYNA-SOAR SPACE GLIDER/
DSR-17 N64-22261 15-06

AUXILIARY POWER SOURCE AND SUBSYSTEMS FOR X-20 AIRCRAFT /DYNA-SOAR SPACE GLIDER/
DSR-19 N64-22263 15-06

AUXILIARY POWER SOURCE FOR X-20 AIRCRAFT
DSR-16 N64-22429 15-06

X-20A AIRCRAFT ACCESSORY POWER UNIT
DSR-18 N64-22430 15-06

DYNA-SOAR AUXILIARY POWER UNIT THERMODYNAMIC SYSTEM - DESIGN ANALYSIS
REPT.-24-DER-63 N64-24148 16-20

PRELIMINARY WEIGHT ESTIMATES FOR ADVANCED DYNAMIC ENERGY CONVERSION SYSTEMS
ASD-TDR-63-705 N64-28158 20-06

SMALL AUXILIARY POWER SYSTEMS FOR SHELTERS
AD-603227 N64-29983 21-06

FUEL CELL-SOLAR CELL COMBINATION UNIT AS AUXILIARY POWER SOURCE FOR MANNED SPACE LABORATORY
ASME PAPER-63-AHGT-71 N64-31017 22-06

DESIGN MANUALS AND FORTRAN COMPUTER PROGRAMS FOR BRUSHLESS ROTATING ELECTRIC GENERATORS IN SPACE

AUXILIARY POWER SYSTEM
NASA-CR-54101, VOL. 1 N64-31713 23-06

DESIGN MANUALS AND FORTRAN COMPUTER PROGRAMS FOR BRUSHLESS ROTATING ELECTRIC GENERATORS IN SPACE AUXILIARY POWER SYSTEM
NASA-CR-54101, VOL. 2 N64-31714 23-06

DESIGN MANUALS AND FORTRAN COMPUTER PROGRAMS FOR BRUSHLESS ROTATING ELECTRIC GENERATORS IN SPACE AUXILTARY POWER SYSTEM
NASA-CR-54101, VOL. 3 N64-31715 23-06

PRESSURE DROP EQUATIONS FOR BOILER AND CONDENSER OF SPACE POWER UNIT REACTOR IN NUCLEAR AUXILIARY POWER SYSTEM
L-9389 N64-32509 23-06

AVALANCHE
STRUCTURAL ANALYSIS OF SILICON P-N JUNCTIONS USING UNIFORM AVALANCHE JUNCTIONS
AFCRL-63-538 N64-14138 05-25

HIGH CURRENT, HIGH VOLTAGE SILICON FOUR-LAYER DIODE WITH AVALANCHE DIODE CHARACTERISTICS FOR USE AS HIGH POWER SWITCHING DEVICE
RADC-TDR-230 N64-29969 21-09

AVIATION
CF AERONAUTICS
NATIONAL AVIATION SYSTEM /NAS/ CHART OVERLAYS FOR AIR TRAFFIC CONTROL N64-10181 01-06

WEATHER FORECASTING FORMS FOR CIVIL AVIATION N64-10996 02-21

HISTORY OF AVIATION MEDICINE
JPRS-19125 N64-11219 02-16

AVIATION AND SPACE MEDICINE CONFERENCE - REPORT ON PAPERS, FILMS, AND DEMONSTRATIONS N64-11854 03-01

SAFETY ASPECTS OF CIVIL AIRCRAFT LANDING OPERATIONS - ANALYSIS OF GROUND AND AIRCRAFT INSTRUMENT LANDING EQUIPMENT N64-14725 06-10

MODEL FOR COMPLEX AIR TRAFFIC CONTROL - CIVIL AVIATION
RD-64-16 N64-14935 06-10

METALLURGICAL STUDY OF METALS AND ALLOYS FOR AVIATION ENGINEERING
FTD-TT-62-1678/1&2 N64-16959 09-18

ALUMINA CERAMICS FOR AVIATION TECHNOLOGY
JPRS-23706 N64-17231 09-19

RELATIONSHIP BETWEEN SUBSONIC AND SUPERSONIC SPEEDS OF FLIGHT AND SAFETY IN CIVIL AVIATION
FFA-96 N64-18149 10-10

AVIATION FORECAST QUALITY CONTROL
RD-64-65 N64-23171 16-04

OPTIMIZATION OF AVIATION WEATHER CONDITION DATA DISPLAY SYSTEM
RD-64-59 N64-23174 16-21

NAVIGATIONAL ACCURACY OF CIVIL JET AIRCRAFT FOR DOPPLER EQUIPMENT EVALUATION AND HORIZONTAL SEPARATION STANDARDS
RD-64-52, I N64-25096 17-22

PERFORMANCE TEST OF GENERAL AVIATION TRANSPONDERS
RD-64-90 N64-26901 18-15

SPEED, ACCELERATION, AND WEIGHTLESSNESS ASSOCIATED WITH AVIATION AND ASTRONAUTICS
FTD-MT-63-103 N64-29678 21-23

WEATHER AS FACTOR IN FLIGHT SAFETY IN MILITARY AVIATION
JPRS-26524 N64-29758 21-21

POWER SPECTRAL GUST DESIGN FOR CIVIL AIRCRAFT
NR-6 N64-30489 22-33

METEOROLOGICAL REQUIREMENTS FOR CIVIL AND MILITARY AVIATION THROUGH 1975
RD-64-31 N64-30622 22-21

METEOROLOGICAL REQUIREMENTS FOR CIVIL AND MILITARY AVIATION THROUGH 1975
RD-64-31 N64-30622 22-21

LOSS OF CONSCIOUSNESS IN AVIATION PERSONNEL - PHYSIOLOGICAL SYNCOPE
REPT.-16 N64-33570 24-16

AVIDIN
AVIDIN CONTENT OF EGG WHITES FOR VARIOUS SPECIES OF BIRDS N64-15802 07-16

AXIAL COMPRESSION
INSTABILITY EQUILIBRIUM EQUATIONS OF ORTHOTROPIC CIRCULAR CONICAL SHELL SUBJECTED TO HYDROSTATIC PRESSURE AND COMPRESSIVE AXIAL FORCE
NASA-CR-52883 N64-11337 02-33

BUCKLING LOAD OF CIRCULAR CYLINDRICAL SHELLS UNDER AXIAL COMPRESSION
NASA-RP-95 N64-13223 04-33

BUCKLING COEFFICIENTS FOR CYLINDERS OF SANDWICH CONSTRUCTION UNDER AXIAL COMPRESSION
FPL-018 N64-15053 07-33

AXIAL COMPRESSION TEST OF EFFECT OF HIGH VELOCITY AND HIGH TEMPERATURE AIR ON WHEEL BUMP FAIRING MATERIALS
A487 N64-17145 09-02

MINIMUM WEIGHT ANALYSIS OF STIFFENED CYLINDERS UNDER AXIAL COMPRESSION FOR LAUNCH VEHICLES
NASA-CR-53317 N64-17763 09-34

REPEATED BUCKLING OF CIRCULAR CYLINDRICAL SHELLS AND CONICAL SHELLS BY AXIAL COMPRESSION
SUDAER-175 N64-18843 11-33

POST-BUCKLING BEHAVIOR OF CYLINDRICAL SHELLS - AXIAL COMPRESSION AND EXTERNAL PRESSURE EFFECTS
NASA-TT-F-90 N64-18950 11-33

DISPLACEMENT OF BUCKLING OF AXIALLY COMPRESSED CIRCULAR CYLINDRICAL SHELLS
SSD-TDR-64-24 N64-22303 15-33

STIFFENED AND UNSTIFFENED CYLINDERS TESTED IN BIAXIAL HYDROSTATIC COMPRESSION
QPR-7 N64-24894 17-23

CREEP BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECTED TO AXIAL COMPRESSION
FFA-98 N64-25999 18-33

DONNELL EQUATION FOR BUCKLING OF THIN WALLED CIRCULAR CYLINDRICAL SHELLS SUBJECTED TO UNIFORM AXIAL COMPRESSION
AFOSR-64-1037 N64-26187 18-33

BUCKLING STRENGTH OF UNIFORM CIRCULAR CYLINDER LOADED IN AXIAL COMPRESSION
ARC-R&M-3366 N64-26547 18-33

INFLUENCE OF CONSTITUENT PROPERTIES ON COMPOSITE MATERIAL PERFORMANCE - STRUCTURAL EFFICIENCY OF CYLINDRICAL SANDWICH SHELLS IN AXIAL COMPRESSION
NASA-CR-50102 N64-26577 18-34

BUCKLING OF AXIALLY COMPRESSED ORTHOTROPIC SANDWICH CYLINDERS
REPT.-6-62-64-9 N64-27224 19-33

PLASTIC BUCKLING OF CYLINDRICAL SHELLS UNDER AXIAL COMPRESSION
AD-441942 N64-27420 19-33

INVESTIGATION OF INFLUENCE OF RING STIFFENERS ON ORTHOTROPIC CYLINDER INSTABILITY IN AXIAL COMPRESSION
NASA-TN-D-2482 N64-32840 24-33

AXIAL FLOW
CODE FOR ROUTINE TESTING OF AXIAL FLOW, MULTISTAGE COMPRESSORS
ARC-R&M-3337 N64-13357 04-15

AXIAL HEAT-FLOW APPARATUS FOR DETERMINING THERMO-CONDUCTIVITY OF MOLTEN SAMPLE OF LITHIUM METAL
ORNL-3390 N64-14058 05-13

SOLUTIONS FOR KNUDSEN FLOW FLUX DISTRIBUTIONS WITH PARTICLES ENTERING CIRCULAR TUBE THROUGH SMALL AXIAL ORIFICE - ROCKET THRUSTOR APPLICATION
NASA-TN-D-2115 N64-14520 06-11

TURBULENT BOUNDARY LAYER ON AXISYMMETRIC BODY REVOLVING IN AXIAL FLOW OF VISCOUS FLUID
FTD-TT-63-1137/1&2 N64-19762 12-02

STABILITY PROBLEM OF VISCOUS INCOMPRESSIBLE FLOW BETWEEN ROTATING COAXIAL CIRCULAR CYLINDERS WITH ADDED AXIAL FLOW
DVL-290 N64-20426 13-02

STRESSES IN DIE CAST ALUMINUM BLADES OPERATING IN AXIAL FLOW COMPRESSOR ENVIRONMENT OF URANIUM HEXAFLUORIDE
GAT-432 N64-24217 16-06

AXIAL FLOW FROM END OF METALLIC CYLINDER BOUNDED BY INSULATING WALL UNDER CAPACITOR DISCHARGE CONDITIONS
SID-64-874 N64-26465 18-24

VELOCITY MEASUREMENT IN AXIAL FLOW COMPRESSORS AND TURBINES N64-27127 19-11

TWO-DIMENSIONAL CASCADE FLOW MAPPING FOR BLADE OSCILLATION IN AXIAL FLOW COMPRESSORS
FTR-1/23 N64-31141 22-02

EVALUATION OF AXIAL FLOW MASS FLOW METER UNDER STEADY STATE CONDITIONS
NATTS-ATL-TN-26 N64-31703 23-11

AXIAL LOAD
BOUNDARY CONDITION EFFECT ON THE STABILITY OF CYLINDERS SUBJECT TO LATERAL AND AXIAL PRESSURES
LMSC-6-90-63-91 N64-11247 02-34

INSTABILITY OF ORTHOTROPIC CIRCULAR CYLINDRICAL SHELL SUBJECTED TO PRESSURE & AXIAL LOAD - CLAMPED AND SIMPLY SUPPORTED EDGE CONDITIONS
NASA-CR-52081 N64-11335 02-33

LOW CYCLE FATIGUE OF STRUCTURAL MATERIALS IN BIAXIAL STRESS FIELD
RTD-TDR-63-4094 N64-13817 05-18

VISCOELASTIC ANALYSIS OF STRUCTURAL INTEGRITY OF AXIALLY ACCELERATED ROCKET WITH ABLATING BOUNDARY EFFECT
AIAA PAPER-64-151 N64-14855 06-13

STRESSED AND DEFORMED STATE OF STIFFENED CIRCULAR CYLINDRICAL SHELL ACTED UPON BY TRANSVERSE PRESSURE AND UNIFORM AXIAL LOADS
NASA-TT-F-194 N64-17830 09-33

FATIGUE TEST OF LAMINATED REINFORCED PLASTIC MATERIALS UNDER AXIAL LOAD
ASD-TDR-63-768 N64-17845 10-33

BENDING & AXIAL STRESS FATIGUE STRENGTH OF ALUMINUM-MAGNESIUM-SILICON ALLOY
N64-21987 15-33

AXIAL LOAD FATIGUE PROPERTIES OF STAINLESS STEEL
NASA-TN-D-2358 N64-25052 17-18

BUCKLING OF AXIALLY LOADED CYLINDRICAL SHELLS - TEST PROGRAM
LMSC-6-90-63-77 N64-31094 22-33

AXIAL LOAD FATIGUE-CRACK PROPAGATION IN TITANIUM AND STAINLESS STEEL ALLOYS
NASA-TN-D-2331 N64-31568 23-18

STABILITY BEHAVIOR OF THIN WALLED CIRCULAR CYLINDRICAL SHELLS UNDER AXIAL LOAD AND INTERNAL PRESSURE BY APPLYING NONLINEAR SHELL EQUATIONS
NOR-64-80 N64-33463 24-33

AXISYMMETRIC BODY
WIND TUNNEL INVESTIGATION OF GROUND WIND LOADS ON AXISYMMETRIC LAUNCH VEHICLES
NASA-TN-D-1893 N64-10952 02-11

VELOCITY-ELECTRICAL CONDUCTIVITY TRANSDUCER FOR AXISYMMETRIC REENTRY VEHICLES
TDR-269/4810-20/-1 N64-12071 03-02

STRENGTH & STABILITY OF AXISYMMETRIC, BIMETALLIC, CYLINDRICAL SHELLS
RSIC-12 N64-12299 03-11

BASE PRESSURE ANALYSIS OF AXISYMMETRIC EJECTORS WITHOUT INDUCED FLOW
AEDC-TDR-64-3 N64-15521 07-11

TUNNEL WALL INTERFERENCE EFFECTS ON DRAG AND PITCHING MOMENT OF AXISYMMETRIC BODY
TM-501.8871-02 N64-15582 07-11

HYPERSONIC FLOW PAST AXISYMMETRIC BODIES FLYING AT ANGLE OF ATTACK
FTD-TT-63-406/1&2&4 N64-16366 08-02

INVISCID REACTING FLOW FIELD ABOUT AXIALLY SYMMETRIC BODY SHAPE AT HYPERSONIC FLOW
R63SD90 N64-16982 09-11

FREE FLIGHT DYNAMIC DAMPING OF AXISYMMETRIC BODY
NASA-CR-53366 N64-17819 09-02

TURBULENT BOUNDARY LAYER ON AXISYMMETRIC BODY REVOLVING IN AXIAL FLOW OF VISCOUS FLUID
FTD-TT-63-1137/1&2 N64-19762 12-02

TURBULENT BOUNDARY LAYER ON AXISYMMETRIC BODIES AT SUPERSONIC SPEEDS
LB-31425 N64-21417 14-02

INVISCID SUPERSONIC FLOW FIELDS AROUND TWO-DIMENSIONAL AND AXISYMMETRIC BODIES AT ZERO ANGLE OF ATTACK
D2-10598 N64-23382 16-11

AXISYMMETRICAL SHELLS FOR AERONAUTICAL STRUCTURES
FTD-TT-62-1652/1&2&4 N64-24631 17-11

THREE-LAYER AXISYMMETRIC HONEYCOMB AND CORRUGATED SHELLS N64-24633 17-11

APPROXIMATION OF ENERGY REQUIRED FOR FORMING THIN WALLED AXISYMMETRIC BODIES
FTD-TT-64-249/1&2&4 N64-25450 17-23

SUPERSONIC WIND TUNNEL INVESTIGATION OF TURBULENT BOUNDARY LAYER ON AXISYMMETRIC BODIES
USCEC-65-52 N64-25694 17-11

RING STIFFENERS FOR AXIALLY SYMMETRIC CYLINDRICAL SHELLS
DTMB-1894 N64-29732 21-11

AXISYMMETRIC EXCITATION OF CONE OF FINITE LENGTH - INTEGRAL EQUATION N64-31368 23-11

TURBULENT BOUNDARY LAYER OF NONTHERMOINSULATED WING OR AXISYMMETRIC BODY IN COMPRESSIBLE LIQUID N64-31748 23-11

ROTATING BOUNDARY LAYERS ON AXISYMMETRIC BODIES
ATN-64/9227/-6 N64-32178 23-11

NOSE CONE SHAPE, AFTERBODY LENGTH, & SUPERSONIC SPEED VARIATION EFFECT ON AERODYNAMIC CHARACTERISTICS OF AXISYMMETRIC BODY
RF-TR-64-13 N64-33646 24-02

AXISYMMETRIC FLOW
APPROXIMATE SOLUTION FOR FLOW OVER AXISYMMETRIC CONES AT HYPERSONIC VELOCITIES
RM-221 N64-11239 02-11

AXISYMMETRIC SUPERSONIC FLOW AROUND BODIES OF REVOLUTION WITH COMPRESSION SHOCKS AND ANGULAR EXPANSION CONSIDERATIONS
DVL-275 N64-13347 04-11

CALCULATION OF LAMINAR BOUNDARY LAYER IN AXI-SYMMETRIC FLOW BY FINITE DIFFERENCE METHOD

WOLTR-63-261 N64-16070 07-11

AXISYMMETRIC FLOW OF INCOMPRESSIBLE FLUIDS IN RIGHT-CYLINDRICAL VORTEX TUBES BOUNDED BY PLANAR END WALLS
ATN-64/9227/-2 N64-16874 08-11

GROWTH OF REGULAR DISTURBANCES IN AXISYMMETRIC LAMINAR AND TURBULENT WAKES OF SPHERICAL AND CYLINDRICAL BODIES
RAD-TN-64-3 N64-17488 09-02

INTERFEROMETRIC ANALYSIS OF AXISYMMETRIC PLASMA FLOW
BRL-1222 N64-17853 10-24

NUMERICAL ANALYSIS FOR SOLVING BLUNT BODY PROBLEM IN HYPERSONIC FLOW BEHIND AXISYMMETRIC SHOCK WAVE
CARDE-TR-480 N64-19288 11-02

AXISYMMETRIC MAGNETIC FIELD CONFIGURATION HAVING NONZERO MINIMUM FIELD INTENSITY
NATT-256 N64-19472 12-24

HYPERSONIC PLANE AND AXISYMMETRIC FLOW AROUND BLUNT BODY
ARL-64-26 N64-19648 12-11

INCOMPRESSIBLE LAMINAR AXISYMMETRIC WAKE BEHIND SLENDER CYLINDRICAL BODY IN AXIAL FLOW
AS-64-5 N64-20083 13-11

SUPERSONIC TWO-DIMENSIONAL AND AXISYMMETRIC NONEQUILIBRIUM FLOW THEORY AND CALCULATIONS FOR AXISYMMETRIC FLOW THROUGH NOZZLES
NASA-TR-R-164 N64-21257 14-11

MIXING OF LAMINAR AND TURBULENT AXISYMMETRIC COMPRESSIBLE FLOWS
ARL-63-108 N64-21432 14-11

GENERAL SOLUTION OF COMPRESSIBLE LAMINAR BOUNDARY LAYER IN STAGNATION REGION OF BLUNT BODIES IN AXISYMMETRIC FLOW
NASA-TN-D-2234 N64-28057 20-11

AXISYMMETRIC SUBSONIC AND SUPERSONIC FLOW ON AND NEAR SEGMENTED ROCKETS WITH FINITE CROSS SECTION AT TAIL
DLR-FB-64-10 N64-30829 22-02

NOZZLE PROFILE CALCULATION WITH GIVEN VELOCITY DISTRIBUTION ALONG NOZZLE AXIS - AXISYMMETRIC FLOW
REPT.-143 N64-31432 23-11

AXISYMMETRIC, ALIGNED MAGNETOHYDRODYNAMIC VISCOUS FLOWS ABOUT MAGNETIZED SPHERICAL BODIES
CR-1047 N64-32273 23-24

FLOW OF GAS-PARTICLE MIXTURES IN AXISYMMETRIC NOZZLES
TR-7106-0023-NUO N64-33864 24-11

AXISYMMETRY
CF SYMMETRY
INTERNAL AIR-FILM COOLING OF MACH 2.4 AXISYMMETRIC SUPERSONIC NOZZLE
WOLTR-64-65 N64-31672 23-13

AZIDE
BEHAVIOR OF CARBONYLAZIDE TOWARD AROMATIC HYDROCARBONS AND DECOMPOSITION OF CARBAZIDE
NSIC-93 N64-12921 04-07

COORDINATION OF AZIDE, SELENOCYANATE, & CYANATE IONS
AD-428105 N64-14169 05-07

CHEMICAL AND PHYSICAL PROPERTIES OF AZIDES FOR INFLATABLE SOLAR ENERGY COLLECTORS
NASA-CR-53991 N64-20582 13-06

KINETICS OF THERMAL & PHOTOCHEMICAL DECOMPOSITION OF SOME ALKALI METAL AZIDES
AD-432035 N64-22207 15-19

PROPERTIES OF ALKALI AZIDES AND BARIUM AZIDES AND EFFECTS ON THERMODYNAMIC AND THERMOCHEMICAL DATA
NTSR-1 N64-28149 20-02

CHEMICAL PROPERTIES OF ACTIVE ALKALI AZIDES AND BARIUM AZIDE
NTSR-2 N64-28152 20-07

DEHYDRATION BEHAVIOR OF BARIUMAZIDE-MONOHYDRATE
AD-448342 N64-32980 24-07

HALOGENOID COMPLEXES - CHEMISTRY OF AZIDE & CYANATE COMPLEXES, AND PSEUDO-HALIC ACIDS
PR-5 N64-33672 24-07

AZIMUTH
COMPUTER PROGRAM FOR LONG LINE AZIMUTH DETERMINATION FROM RANGE & OPTICAL MEASUREMENTS
AFCRL-63-740 N64-12234 03-20

ATMOSPHERIC REFRACTION EFFECTS IN MICROWAVE MEASUREMENTS OF RANGE AND AZIMUTH
NBS-8231 N64-20431 13-08

CALIBRATION OF PROTOTYPE EXPLORER IV SATELLITE USING GAMMA RAYS, X-RAYS AND ELECTRONS OVER AZIMUTHAL AND INCLINATION ANGLES
WT-1671 N64-21490 14-32

AZIMUTHAL COMPONENT OF HELICAL SOLENOID MAGNETIC FIELD
NASA-TN-D-2372 N64-25053 17-23

AZIMUTHAL TELESCOPE FOR INVESTIGATION OF VARIATIONS OF COSMIC RAYS DEPENDENT ON DIRECTION OF PRIMARY RADIATION N64-25930 18-15

SATURN LAUNCH VEHICLE LONG RANGE AZIMUTH ALIGNMENT THEODOLITE
NASA-CR-58047 N64-27268 19-15

NONRANDOM RANGE, AZIMUTH, AND ELEVATION RESIDUALS INDUCED AT OBSERVATION SITE
TOR-269/4110-01/-46 N64-29682 21-08

LONG LINE GEODETIC AZIMUTHS FROM OPTICAL OBSERVATIONS OF ANNA FLASHING SATELLITE
AFCRL-64-446 N64-32108 23-32

AUTOMATIC TARGET DATA PROCESSOR - RADAR VIDEO DIGITIZER AND AZIMUTH DIGITIZER
RD-64-124 N64-33994 24-08

AZINE
THERMOSTABLE TRIAZINE RUBBER PRODUCTION FROM COPOLYCONDENSATION OF DIAMIDINES OF PERFLUORO GLUTARIC AND PERFLUORO ADIPIC ACIDS
FTD-TT-63-176/1 N64-23297 16-19

AZO COMPOUND
HIGH INTENSITY PHOTOLYSIS OF AZO COMPOUNDS USING SUPER PRESSURE MERCURY LAMP AS LIGHT SOURCE
GNE/PHYS-64-18 N64-33708 24-07

SYNTHESIS OF CYCLOALKANONE ALKYLHYDRAZONES AND FACTORS INFLUENCING ISOMERIZATION TO CYCLOALKANE AZO ALKANES
GNE/PHYS/64-15 N64-33887 24-07

AZOLE
POLYMER CHEMISTRY - MECHANICAL STRENGTHS OF HEAT RESISTANT POLYIMIDE AND POLYBENZIMIDAZOLE RESINS
SM-44660 N64-18710 11-19

STRESS-STRAIN BEHAVIOR, SHORE-D HARDNESS, AND OXYGEN SORPTION OF POLY/N-VINYL CARBAZOLE/ AS FUNCTION OF NUCLEAR RADIATION ABSORPTION
NARF-63-14T N64-29811 21-19

SPECTRAL AND MAGNETO-CHEMICAL STUDIES OF 5-TRIFLUOROMETHYLTETRAZOL COMPLEXES, COPPER COMPLEXES OF SUBSTITUED BENZOIC ACIDS, AND COPPER HALIDE COMPLEX WITH PYRIDINE N-OXIDE SUBSTITUTIONS
SR-9 N64-31093 22-07

B

B-47 AIRCRAFT
AIR LAUNCHED ROCKETSONDE COMPATIBILITY WITH WB-47 AIRCRAFT AND RADIOSONDE RECEIVER FOR WEATHER FORECASTING
AFCRL-64-59 N64-22307 15-32

B-58 AIRCRAFT
INCREASED LIFETIME OF B-58 COCKPIT WINDSHIELD DUE TO INCREASED PIGMENTED LAYER DEPTH
FTDR-3104 N64-16349 08-19

B-58 AIRCRAFT COCKPIT WINDSHIELD EXPOSURE TEST - DEGRADATION TIME FOR PIGMENTED GLASS
FTDR-2949 N64-16350 08-19

THERMAL DEGRADATION AND BURST PRESSURE OF B-58 AIRCRAFT WINDSHIELDS
FTDR-2861 N64-16634 08-19

TENSILE, IMPACT, AND AXIAL FATIGUE PROPERTIES OF STEEL B-58 WING PYLON BOXES AFTER REPAIR WELDING
FGT-2956 N64-20038 13-18

STRESS CORROSION & EFFECTS OF BANDING - LITERATURE SURVEY & TESTS FOR B-58 AIRCRAFT LANDING GEAR
FGT-2957, PT. 2 N64-20039 13-18

EVALUATION OF SYNTHETIC ELASTOMER SEALANT FOR B-58 AIRCRAFT FUEL TANKS
FGT-3029 N64-20040 13-19

EFFECTS OF WELDED CONSTRUCTION ON FATIGUE STRENGTH OF NACELLE FRAMES OF B-58 AIRCRAFT
FZM-4-1147 N64-20074 13-18

BACILLUS
QUANTITATIVE ANALYSIS BY RADIOACTIVE PHOSPHORUS-32 OF TRICALCIUM PHOSPHATE SOLUBILIZED BY BACILLI
N64-13474 05-16

BIOCHEMISTRY - GENETIC MARKING OF PROPHAGES IN BACILLUS SUBTILIS N64-23278 16-16

SPECIFICITY OF COMPLEMENTARY RIBONUCLEIC ACID FORMED BY BACILLUS SUBTILIS INFECTED WITH BACTERIOPHAGE SP8 N64-25880 18-16

BACILLUS SUBTILIS DEOXYRIBONUCLEIC ACID IN BACTERIOPHAGE LEAD SULFIDE TRANSDUCTION
N64-28111 20-16

SURVIVAL OF BACILLUS SUBTILIS IN SIMULATED MARTIAN ENVIRONMENT N64-29559 21-16

BACKGROUND NOISE
SOLUTION OF OPTIMUM DETECTION AND RECOGNITION OF PULSE RADAR SIGNAL AGAINST NOISE BACKGROUND
N64-15135 07-08

RAYLEIGH FADING AND NOISE BACKGROUND ASSOCIATED WITH PULSE & FREQUENCY SHIFT KEYED DATA TRANSMISSION SYSTEMS
CR-63-419-12 N64-19125 11-12

SOLIDS MASS SPECTROMETER - NOISE PROBLEM AND PRODUCTION OF ARGON ION BEAM FREE OF CONTAMINANTS
NASA-CR-56039 N64-20642 13-15

SOURCES AND METHODS OF PROPAGATION OF BACKGROUND NOISE, SELECTION OF OPTIMUM SITES, AND METHODS FOR REDUCING NOISE EFFECT
REPT.-4410-63-X N64-27218 19-15

BACKGROUND RADIATION
STELLAR BACKGROUND RADIATION SPECTRUM
AD-427187 N64-15759 07-28

GAMMA RADIATION BACKGROUND IN SALT MINE MEASURED WITH SODIUM IODIDE CRYSTAL DETECTOR AND MULTI-CHANNEL ANALYZER
UR-641 N64-19858 12-23

SATELLITE MEASUREMENT OF INFRARED BACKGROUND RADIATION USING RADIOMETER
SSD-TDR-64-101 N64-26108 18-30

PERFORMANCE CHARACTERISTICS OF SILICON PHOTODIODE IN DIFFERENT RADIATION BACKGROUNDS
NOLC-595 N64-26491 18-09

SCALE OF BOLOMETRIC CORRECTIONS OF CELESTIAL BACKGROUND RADIATION
AFCRL-64-169/1/ N64-26831 18-20

BACKSCATTER
BACKSCATTERING FROM SIMPLIFIED IONIZED TARGET IN FORM OF EXTENDED LAMINAR PLASMA COLUMN
AD-402665 N64-11644 03-24

BACKSCATTERING CROSS SECTION MIXTURES OF ICE & WATER - RADAR ECHO
AFCRL-63-760 N64-12294 03-23

BACKSCATTER TECHNIQUES IN GEOPHYSICS
N64-15282 07-12

BACKSCATTER SOUNDING DURING SEVERE IONOSPHERIC STORMS N64-15438 07-12

INFLUENCE OF SUDDEN IONOSPHERIC DISTURBANCES ON BACKSCATTER SOUNDING N64-15439 07-12

INFLUENCE OF SOLAR DISTURBANCES ON MULTIFREQUENCY PULSE TRANSMISSIONS AND SIMULTANEOUS BACKSCATTER OBSERVATIONS N64-15443 07-20

EFFECT ON BACK SCATTERING BY SIMPLE PLASMA CONFIGURATION OF INCIDENT ELECTROMAGNETIC WAVE PATTERNS
GASL-TR-372 N64-15749 07-24

REDUCTION OF ELECTROMAGNETIC BACKSCATTER FROM PLASMA SHEATHED CONDUCTING BODY - HYPERVELOCITY PROJECTILE
ESD-TDR-63-589 N64-17364 09-24

RADAR BACKSCATTERING OBSERVATION OF DISTORTION OF CUMULONIMBUS PRECIPITATION
AFCRL-64-249 N64-18355 10-08

BACK SCATTERING PROPERTIES OF FOAMED PLASTICS
REPT.-5849-1-T N64-19276 11-19

MODELS OF ELECTRON DENSITY FLUCTUATIONS - AURORAL BACKSCATTERING N64-20768 14-12

BACKSCATTER OF ELECTROMAGNETIC RADIATION FROM TURBULENT PLASMA
IDA/HQ-63-2024 N64-21622 15-24

ELECTROMAGNETIC BACKSCATTERING CROSS SECTION OF CIRCULAR CYLINDRICAL SECTION
ESD-TDR-64-36 N64-22239 15-24

MICROWAVE BACKSCATTERING FROM SUPERSONIC PLASMA FLOWS N64-24311 17-08

BACKSCATTER MEASUREMENT RANGE N64-24732 17-08

APPROXIMATION METHOD FOR COMPUTING BACKSCATTERING FROM CYLINDRICAL PLASMA CONFIGURATION WITH AXISYMMETRIC ELECTRON DENSITY
TR-394 N64-25589 17-24

LUNAR RADAR AND BACKSCATTERING MEASUREMENTS FROM LUNAR-LIKE SURFACES
NASA-CR-50859 N64-27806 19-08

FREQUENCY SWEPT BACKSCATTER SOUNDINGS FOR STUDY AND SURVEILLANCE OF IONOSPHERIC PROPAGATION CONDITIONS
AFCRL-64-443 N64-28547 20-12

BACKSCATTERING OF FAST NEUTRONS FROM PLANE AND SPHERICAL REFLECTORS N64-28655 20-23

AIR DENSITY METER USING ULTRAVIOLET BACKSCATTER MEASUREMENT
NASA-CR-60002 N64-29180 21-15

CORRELATION BETWEEN ATMOSPHERIC BACKSCATTERING AND METEOROLOGICAL VISUAL RANGE
USAEL-TR-2481 N64-29795 21-21

REDUCING MAGNITUDE OF BACKSCATTERING FROM OBJECTS BY LOADING
AFCRL-64-541 N64-31989 23-08

CROSS-POLARIZED ELECTROMAGNETIC BACKSCATTER USING SECOND BORN APPROXIMATION
DAMP-TH-64-01 N64-33717 24-24

BACKWARD WAVE OSCILLATOR
MAXIMUM GAIN FOR FORWARD & BACKWARD WAVE OPTICAL MASER AMPLIFIERS
USAELRDL-TR-2375 N64-14325 06-25

O-TYPE BACKWARD-WAVE OSCILLATOR FOR GENERATING VERY HIGH POWER AT PEAK OF 100-KILOWATTS AND AVERAGE OF 1000-WATTS AT 100 GRAM-CALORIE
W-J 63-435R3S N64-15061 07-09

COMPATIBLE BACKWARD WAVE OSCILLATOR ELECTRON TUBES
ASD-TDR-63-7-695A N64-21752 15-08

LOW-NOISE, BACKWARD-WAVE OSCILLATOR
USAELRDL-TR-2461 N64-24848 17-09

PERTURBATION METHOD FOR EFFECT OF SMALL MISMATCHES ON BACKWARD WAVE OSCILLATOR
FTD-TT-64-293/1&2&4 N64-26095 18-09

MULTIPLE COUPLED LADDERS IN BACKWARD-WAVE OSCILLATORS AT MILLIMETER WAVELENGTHS
N64-27997 20-09

BACTERIA
SA ACTINOMYCETES
SA BACILLUS
SA NITROBACTER
SA SALMONELLA
SA SPORE
CF VIRUS
DIURNAL FREEZE-THAWING AND SURVIVAL OF SELECTED BACTERIA N64-10989 02-16

SULFATE REDUCTION BY BACTERIA
UCRL-10966 N64-11987 03-16

GERMINATION AND GROWTH OF BACTERIAL SPORES IN SIMULATED MARTIAN ENVIRONMENT
SAM-TDR-63-75 N64-12340 03-16

PIGMENTS IN PURPLE AND GREEN PHOTOSYNTHESIZING BACTERIA - LUMINESCENT SPECTRA
FTD-TT-63-867/1&2 N64-12628 04-16

MAGNESIUM SEA WATER CELL WITH BACTERIA COLONIZED CATHODE
NRL-5998 N64-12825 04-06

EARLY ONSET OF THIAMINELESS DEATH IN BACTERIAL STRAINS AFTER EXPOSURE TO ULTRAVIOLET LIGHT
PM-6117 N64-13204 04-16

TRYPTOPHAN PYRROLASE ACTIVITY EFFECT IN BACTERIAL ENDOTOXIN POISONING IN MICE
AAL-TDR-63-13 N64-13662 05-16

TEMPERATURE DEPENDENCE OF BACTERIOVIRIOIN LUMINESCENT INTENSITY IN PHOTOSYNTHETIC BACTERIA
JPRS-23054 N64-14529 06-16

COMPARATIVE EVALUATION OF BACTERIA COLLECTOR EFFECTIVENESS USING FLOW ULTRAMICROSCOPE TO DETERMINE BACTERIAL AEROSOL CONCENTRATION
JPRS-23283 N64-15293 07-16

ISOLATION OF FECAL BACTERIA AND ESTABLISHMENT OF TYPE CULTURES OF ANAEROBIC ORGANISMS
NASA-CR-55561 N64-15550 07-16

ECOLOGIC RELATIONSHIPS BETWEEN BACTERIA AND ALGAE IN PHOTOSYNTHETIC GAS EXCHANGERS
NASA-CR-55423 N64-16325 08-16

ROLE OF BACTERIA IN CONVERSION OF PETROLEUM CARBON AND ASPHALT COMPONENTS UNDER ANAEROBIC CONDITIONS
FTD-TT-62-1449/1&2&4 N64-16396 08-16

BACTERIAL SURVIVAL IN SIMULATED EXTRATERRESTRIAL ENVIRONMENT
NASA-CR-53106 N64-16745 08-16

SIMULATION WITH CARBON PARTICLES OF BACTERIAL INVASION OF HUMAN GINGIVAL TISSUES - PHYSIOLOGY
SAM-TDR-64-4 N64-17963 10-16

GENETIC TRANSFER AND MACROMOLECULE FINDINGS FOR TAXONOMY OF BACTERIA N64-18056 10-16

PURPLE SULFUR, PURPLE NONSULFUR, AND GREEN SULFUR PHOTOSYNTHESIZING BACTERIA
JPRS-24319 N64-18975 11-16

CHEMISTRY OF LEACHING COPPER SULFIDE MINERALS WITH AUTOTROPIC BACTERIA - MINERALOGY
BM-RI-6423 N64-18987 11-16

BACTERIAL CELL DIVISION IN RELATION TO OXIDATION-REDUCTION POTENTIAL CHANGE FOR EXTRATERRESTRIAL LIFE DETECTION
NASA-CR-53734 N64-19577 12-16

MICROBIOLOGICAL STUDY OF BACTERIA POPULATION IN MONOLITH OF MINERAL ICE
FTD-TT-63-926/1&2 N64-21662 15-16

ANAEROBIC BACTERIA SURVIVAL IN EXTRATERRESTRIAL ENVIRONMENTS
NASA-CR-50934 N64-22758 16-16

BACTERIAL SURVIVAL IN SIMULATED MARTIAN ENVIRONMENT
NASA-CR-50516 N64-22759 16-16

BACTERIA UNDER SIMULATED MARTIAN ENVIRONMENT
NASA-TM-X-50873 N64-22777 16-16

RELATIONSHIP BETWEEN PHYSIOLOGICAL STATE AND MEDIUM DURATION OF FLUORESCENCE OF BACTERIOCHLOROPHYLL IN CELLS N64-23434 16-16

ROLE OF BACTERIA IN ELECTROCHEMICAL CORROSION OF STEEL IN SEA WATER
FTD-TT-64-393/1&4 N64-26123 18-18

INHIBITION OF THIOL-ACTIVATED AMINOPEPTIDASE ENZYME BY BACTERIA-PUROMYCIN
NASA-RP-252 N64-26711 18-16

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON DIOXIDE
AMRL-TDR-64-35 N64-27432 19-16

GROWTH CHARACTERISTICS OF AUTOTROPHIC BACTERIA FOR BALANCE IN CLOSED ECOLOGICAL SYSTEM CONTAINING MAN
NASA-CR-50129 N64-27817 19-16

RELATIONSHIP BETWEEN GROWTH AND GRAVITY IN BACTERIA - ESCHERICHIA COLI N64-28649 20-16

RADIOCHEMISTRY OF PYRIMIDINE BASES - ACTION OF RADIATION ON TRANSFORMING DEOXYRIBONUCLEIC ACID OF BACTERIA
EUR-1646.F N64-28659 20-16

ELECTRON MICROSCOPIC EXAMINATION OF BACTERIAL CELLS SUBJECTED TO STRONG GRAVITATIONAL FIELDS
N64-28767 20-16

INACTIVATION AND RECOVERY OF MICROORGANISMS AFTER TREATMENT WITH ULTRAVIOLET LIGHT, X-RAYS, OR NITROGEN MUSTARD N64-30786 22-16

GENETIC INSTABILITY IN BACTERIA AND PRESENCE OF CONTROLLING EPISOMES
QTSR-1 N64-32514 23-16

NORMAL FECAL BACTERIAL FLORA OF MAN - MORPHOLOGICAL TYPE CULTURES
NASA-CR-59257 N64-33288 24-16

BACTERIAL CELL ENZYMES CONTRIBUTING TO VIRULENCE AND PATHOGENICITY OF MICROORGANISMS
JPRS-27146 N64-33345 24-16

BACTERIOLOGY
SERUM PROPHYLAXIS AND THERAPY OF BACTERIAL INTOXICATIONS IN IRRADIATED ANIMALS
N64-20946 14-16

MICROMETEOROLOGICAL RESEARCH PROJECT TO AID IN CHEMICAL-BACTERIOLOGICAL-RADIOLOGICAL WARFARE, ROCKET LAUNCHING, AND COMBAT SURVEILLANCE SENSORS
ERDAA-MET-4-64 N64-27794 19-21

BAILOUT
CF EJECTION
EMERGENCY ABANDONMENT OF AIRCRAFT - CREW RESCUE, PROTECTIVE EQUIPMENT, AND SURVIVAL EQUIPMENT
FTD-TT-63-420 1&2 N64-29857 21-16

BALANCE
SA HEAT BALANCE
TWO-COMPONENT MICROBALANCE FOR MEASURING FORCES ON ION-BOMBARDED SURFACES N64-10361 01-15

VERTICAL TORSION BALANCE FOR MEASURING GRAVITATION FIELD VERTICAL GRADIENT - GEOLOGICAL SURVEY N64-11498 03-23

MAGNETIC SUSPENSION AND BALANCE SYSTEM FOR STATIC AND DYNAMIC WIND TUNNEL TESTING
ARL-63-226 N64-14659 06-15

AUTOMATIC RECORDING ANALYTICAL BALANCE
K-1593 N64-14736 06-15

SYSTEMS FOR BALANCING AND DETERMINING TRIM OF FLOAT-TYPE GYROSCOPES
FTD-TT-62-1880/1&2&4 N64-16404 08-22

METHOD FOR BALANCING FLOAT IN FLOAT-TYPE GYROSCOPES USING ADDITIONAL WEIGHTS
FTD-TT-62-1881/1&2&4 N64-16405 08-22

TRIAXIAL BALANCING TECHNIQUES FOR SPACECRAFT
NASA-TN-D-2144 N64-17155 09-30

RADIATION BALANCE AND THERMOCOUPLE FOR MEASUREMENT OF RADIATION
NASA-TN-D-2246 N64-17749 09-13

SENSITIVE MAGNETIC BALANCE FOR DIRECT MEASUREMENT OF SKIN FRICTION DRAG
REPT.-0-71000/3R-29 N64-19298 12-15

METHOD OF REGULATING PRECISION OF BALANCE-TYPE TIMEPIECES AND CLOCKS N64-23544 16-15

ERROR ANALYSIS OF TWO-COMPONENT STRAIN GAUGE BALANCE FOR NORMAL FORCE AND CENTER OF PRESSURE DETERMINATIONS OF WIND TUNNEL MODELS
SC-RR-64-698 N64-26744 18-15

CONSTRUCTION AND OPERATION OF INSTRUMENT TO MEASURE MOMENTUM TRANSFER TO TARGET SURFACE BY INCIDENT MOLECULAR BEAM - ELECTRIC MICROBALANCE N64-28289 20-15

COMPONENT VALUES FOR AUTOMATICALLY BALANCING BRIDGE CIRCUITS N64-29133 21-15

MEASUREMENT OF VAPOR PRESSURE AND HEAT OF SUBLIMATION OF RUTHENIUM AND OSMIUM USING MICROBALANCE TECHNIQUE
NBS PAPER-68A3-280 N64-32230 23-07

ADDITION OF BACK PRESSURE REGULATOR AND THREE-WAY VALVE FOR MODIFICATION OF DEADWEIGHT BALANCE SYSTEM
NASA-CR-59232 N64-33684 24-10

BALANCE EQUATION
S MOTION EQUATION
S PRESSURE FIELD
S VORTICITY EQUATION

BALL BEARING
GOLD-PLATED BALL BEARING FOR SATELLITE LUBRICATING SYSTEM
NASA-TN-D-2101 N64-11237 02-17

VACUUM TREATMENT FOR HIGH QUALITY, LOW SILICON BALL BEARING STEEL IN METALLURGICAL FACTORY
JPRS-22390 N64-11921 03-17

ELIMINATION OR CONTROL OF FIBER ORIENTATION FOR IMPROVED FATIGUE LIFE OF STEEL BALL BEARINGS
NASA-CR-55402 N64-14284 06-17

VIBRATION CHARACTERISTICS OF BALL AND ROLLER BEARINGS
AL63L023 N64-17483 09-17

BARIUM, GOLD, AND SILVER FILM LUBRICATION OF MINATURE BALL BEARINGS FOR VACUUM SYSTEM USE
NASA-TN-D-2304 N64-21268 14-17

GYROSCOPIC EFFECT IN BALL BEARINGS OF FUSE ARMING VANE
NOLTR-63-167 N64-26240 18-17

REACTOR RADIATION EFFECTS ON BENZENE COMPOUND USED AS LUBRICANT IN HIGH-SPEED, HIGH-TEMPERATURE BALL-BEARING RIG
NARF-63-17T N64-29813 21-17

LUBRICATION OF SMALL ROTATING COMPONENTS - MINIATURE PRECISION BALL BEARINGS N64-31482 23-17

HYDROCARBONS, ESTER BASE OIL, AND POLYPHENYL ETHER FOR LUBRICATING VACUUM MELTED STEEL BALL BEARINGS AT HIGH SPEEDS AND TEMPERATURES
NASA-CR-59283 N64-33330 24-17

BALLISTIC CAMERA
DETERMINATION AND CORRECTION OF ERRORS OF ATLANTIC MISSILE RANGE BALLISTIC CAMERA SYSTEMS REQUIRED FOR MISTRAM CALIBRATION N64-15314 07-15

EFFECT OF STELLAR MAGNITUDE ON STAR CALIBRATION OF BALLISTIC CAMERAS
OID-33 N64-17535 09-15

CALIBRATION OF COMPARATORS FOR BALLISTIC CAMERA DATA - PHOTOGRAMMETRIC DATA REDUCTION ANALYSIS
MTC-TDR-63-10 N64-21247 14-15

BALLISTIC CAMERA PLATES FOR MEASURING PHOTOGRAPHIC EMULSION SHIFT OF OBJECTS IN SPACE
MTC-TDR-64-4 N64-22511 15-15

RADIAL DISTORTION CALIBRATION OF BALLISTIC CAMERAS
WRE-TN-OID-34 N64-28730 20-15

BALLISTIC CAMERA TECHNIQUE OF PHOTOGRAMMETRIC TRIANGULATION AS GEODETIC TOOL N64-29107 21-08

BALLISTIC MISSILE
SIMULATION APPARATUS FOR ENTRY OF LONG-RANGE BALLISTIC MISSILES INTO EARTH ATMOSPHERE
NASA-TM-X-51119 N64-10340 01-10

COMPUTER PROGRAM FOR DETERMINING RADAR COORDINATES OF BALLISTIC MISSILE
ESD-TDR-63-163 N64-13131 04-20

NONLINEAR MOTION OF SYMMETRIC BALLISTIC MISSILES N64-15630 07-30

ESTIMATING BALLISTIC MISSILE ATTITUDE DURING POWERED FLIGHT PERIOD FROM TRACK AND RATE OBSERVATIONS
SSD-TDR-63-292 N64-16446 08-30

HANDBOOK OF FUNDAMENTAL OPERATING PRINCIPLES OF BALLISTIC MISSILE PROPULSION SYSTEMS AND PROPELLANTS
AMCP-706-282 N64-16616 08-26

FORTRAN COMPUTER PROGRAM FOR BALLISTIC MISSILE TRAJECTORY FROM LAUNCH TO IMPACT
AD-432285 N64-17487 09-29

TRAJECTORY EQUATIONS FOR BALLISTIC MISSILES AND LIQUID & SOLID FUELS FOR ROCKET ENGINES
JPRS-24024 N64-17972 10-30

TRAJECTORY CHARTS OF BALLISTIC VEHICLES IN VACUUM ABOUT NONROTATING SPHERICAL EARTH
RM-3752-PR N64-20376 13-21

BLAST LOADING AND TARGET RESPONSE OF BALLISTIC MISSILE REENTRY VEHICLES
TM-1152 N64-21032 14-30

POINT-MASS TRAJECTORY DATA FOR MANEUVERABLE BALLISTIC MISSILE REENTRY VEHICLES
NOLTR-63-193 N64-21248 14-19

DYNAMIC ANALYSIS NONROLLING BALLISTIC MISSILE RAPIDLY ASCENDING THROUGH ATMOSPHERE

LR-392 N64-24912 17-02

EFFECT OF GEOPHYSICAL AND GEODETIC UNCERTAINTIES AT LAUNCH AREA ON BALLISTIC MISSILE IMPACT ACCURACY
BSD-TDR-63-256, REISSUE A N64-25244 17-29

PREDICTING IMPACT POINT OF BALLISTIC ROCKET USING DIGITAL IMPACT COMPUTER
WRE-TN-TRD-12 N64-25654 17-04

RELIABILITY OF ADVANCED BALLISTIC REENTRY SYSTEMS
GD/A-DDH-64-021 N64-27529 19-17

FORCES ON TETHERED BALLISTIC MISSILES DUE TO ENGINE CUT-OFF
ARC-CP-674 N64-28860 20-33

TRACKING SYSTEM REQUIREMENTS AND DESIGN OF OPTIMIZED TEST REGIME FOR EVALUATING BALLISTIC MISSILE INERTIAL GUIDANCE SYSTEMS IN FLIGHT TEST
N64-29104 21-08

RADIOELECTRONIC INSTRUMENTS FOR REACTION BALLISTIC MISSILES
FTD-TT-63-772/1&2&3&4 N64-29986 21-06

SELF-CONTAINED CONTROL SYSTEMS OF BALLISTIC MISSILES
FTD-MT-64-300 N64-32242 23-06

BALLISTIC MISSILE SYSTEM FOR DETECTION OF HAZARDOUS VAPORS
AD-420350 N64-32391 23-06

BALLISTIC MISSILE EARLY WARNING SYSTEM /BMEWS/
SATELLITES FOR CALIBRATION OF BALLISTIC MISSILE EARLY WARNING SYSTEM /BMEWS/ RADARS
ESD-TDR-63-454 N64-21599 15-08

BALLISTIC TRAJECTORY
OBJECTIVES, METHODS, RESULTS, AND CONCLUSIONS OF BALLISTIC AND ORBITAL MERCURY FLIGHTS /MR-2 AND MR-5 FLIGHTS/ WITH CHIMPANZEES
NASA-SP-39 N64-12915 04-16

BALLISTIC INTERPLANETARY TRAJECTORIES UNDER INFLUENCE OF MULTIPLE PLANETARY ATTRACTIONS - MANY-BODY PROBLEM
NASA-CR-53033 N64-13275 04-29

THREE-DIMENSIONAL BALLISTIC EARTH-VENUS TRAJECTORIES
NASA-CR-53073 N64-15794 07-29

GUIDANCE, TRACKING, AND ERROR COEFFICIENTS OF THREE-DIMENSIONAL BALLISTIC EARTH-VENUS TRAJECTORIES
NASA-CR-52974 N64-15795 07-29

DIFFERENTIAL FIRING CORRECTIONS AND ACCURACY FORMULAS FOR VEHICLE ON KEPLERIAN BALLISTIC TRAJECTORY
BSD-TDR-63-216 N64-17442 09-29

ONE-WAY BALLISTIC TRAJECTORY TO MAJOR TARGETS AND POSITIONS WITHIN SOLAR SYSTEM
NASA-CR-53730 N64-19572 12-29

PARABOLIC, HYPERBOLIC AND ELLIPTICAL BALLISTIC TRAJECTORY CALCULATIONS
NASA-CR-53850 N64-19603 12-05

TRAJECTORY CHARTS OF BALLISTIC VEHICLES IN VACUUM ABOUT NONROTATING SPHERICAL EARTH
RM-3752-PR N64-20376 13-21

ACCESSIBLE REGIONS METHOD OF ENERGY AND FLIGHT TIME ANALYSIS FOR ONE-WAY BALLISTIC INTERPLANETARY MISSIONS
NASA-CR-58359 N64-28840 20-29

EARTH-MARS BALLISTIC TRAJECTORIES - 1964 TO 1977
NASA-CR-58244 N64-29408 21-29

DESCRIPTION AND APPLICATION OF BALLISTIC TRAJECTORY DATA FOR EARTH-MARS-EARTH MISSION
FZR-6163-1 N64-29607 21-29

BALLISTICS
METEOROLOGICAL & BALLISTIC DATA FOR LAUNCHING OF AEROBEE ROCKET
NASA-CR-52377 N64-10613 01-21

BALLISTIC DATA FOR SERIES OF COMPOSITE SOLID PROPELLANTS N64-11250 02-20

METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE AC 3511 ROCKET & BALLISTICS STUDIES
ERDA-69 N64-14618 06-21

METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE BSRA-02 ROCKET & BALLISTICS STUDIES
ERDA-90 N64-14620 06-21

ANALOG SIMULATION OF DYNAMIC EQUATIONS OF ATMOSPHERIC BALLISTIC REENTRY
AEDC-TDR-63-257 N64-15522 07-20

LAMINAR HYPERSONIC WAKE LENGTH DURING BALLISTIC REENTRY OF BLUNT OBJECTS N64-16570 08-30

VARIATION IN COATED-CYLINDER BALLISTIC-COEFFICIENT WITH DECREASING COATING THICKNESS
AD-296790 N64-18188 10-02

METEOROLOGICAL DATA AND CALCULATED BALLISTIC DATA FOR AEROBEE ROCKET 4.81 CG LAUNCH
ERDA-144 N64-27428 19-21

METEOROLOGICAL DATA AND CALCULATED BALLISTIC DATA FOR AEROBEE ROCKET 4.86 NA LAUNCH
ERDA-145 N64-27429 19-21

METEOROLOGICAL DATA AND CALCULATED BALLISTIC DATA FOR AEROBEE ROCKET 4.113 GA-GI LAUNCH
ERDA-146 N64-27430 19-21

METEOROLOGICAL DATA AND CALCULATED BALLISTIC DATA FOR AEROBEE ROCKET NE 3.154 LAUNCH
ERDA-147 N64-27431 19-21

BALLISTIC MOVEMENT OF LOWER LIMBS OF HUMANS
N64-28039 20-16

INDUCED VOLTAGE TECHNIQUE FOR EXPLODING PLASTIC PROJECTILE IN BALLISTIC SHOCK TUNNEL
NOLTR-62-173 N64-31075 22-01

METEOROLOGICAL DATA FOR LAUNCHING AND BALLISTIC STUDIES OF AEROBEE AD 3.355
ERDA-150 N64-31600 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCH OF NIKE-APACHE SPEEDBALL II ROCKET
ERDA-149 N64-31679 23-21

METEOROLOGICAL DATA AND BALLISTIC STUDIES FOR AEROBEE 4.67 HP LAUNCH AND IMPACT PREDICTION
ERDA-151 N64-31912 23-21

METEOROLOGICAL DATA AND CALCULATED BALLISTIC DATA FOR LAUNCHING OF AEROBEE ROCKET
ERDA-143 N64-32124 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING AEROBEE NB 3.147 ROCKET
ERDA-154 N64-32313 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING NIKE-APACHE ROCKET
ERDA-155 N64-32314 23-21

WIND DATA FOR NIKE-APACHE LAUNCHINGS AND BALLISTIC STUDIES
ERDA-162 N64-32315 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING NIKE-APACHE SPEEDBALL II ROCKET
ERDA-163 N64-32316 23-21

WIND DATA FOR ROCKET LAUNCHING & BALLISTIC STUDIES
ERDA-164 N64-32317 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING AEROBEE KP 3.6 ROCKET
ERDA-166 N64-32318 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING ATHENA ROCKET
ERDA-167 N64-32319 23-21

WIND DATA FOR BALLISTIC MISSILE REENTRY SYSTEMS - ATHENA ROCKET
ERDA-119 N64-32422 23-21

BIBLIOGRAPHY ON BALLISTICS, GUIDED MISSILES, AND WEAPONS
TDCK-15963 N64-32590 23-33

EXTERIOR BALLISTICS ENGINEERING DESIGN HANDBOOK - TRAJECTORIES, DIFFERENTIAL EFFECTS, AND DATA FOR PROJECTILES
AMCP-706-140 N64-33129 24-02

DESIGN OF MINIMUM WEIGHT SABOT FOR BALLISTIC LAUNCHING OF SPHERES
CARDE-TR-490/64 N64-33487 24-10

LAUNCHING OF AEROBEE NASA 4.82 GG - METEOROLOGICAL DATA AND BALLISTIC STUDIES
NASA-CR-59269 N64-33693 24-21

BALLOON
SA ROBIN BALLOON
CF AIRCRAFT
CF INFLATABLE STRUCTURE
SPACE EXPLORATION - BALLOONS, SOUNDING ROCKETS, SATELLITES, TRACKING & TELEMETRY STATIONS, & SUPPORTING ACTIVITIES N64-13450 05-01

BALLOON-BORNE ASTRONOMICAL TELESCOPE - STELLAR GUIDANCE SYSTEM N64-14258 06-22

EQUILIBRIUM CONFIGURATION OF CAPTIVE BALLOON FLYING CABLES
ARC-REM-3333 N64-17256 09-04

AUTOMATIC BALLOON-BORNE SELENODETIC PLATE CAMERA FOR HIGH RESOLUTION PHOTOGRAPHY OF MOON
AFCRL-64-201 N64-17652 09-15

ATTEMPT TO COLLECT INFRARED HORIZON DATA BY BALLOON
AFCRL-64-210 N64-17862 10-12

THIN FLEXIBLE PRESSURE VESSELS - STRESS EQUATIONS FOR AXISYMMETRIC BALLOON AND DETERMINATION OF SHAPE OF FREE BALLOON
AFCRL-63-951 N64-20122 13-04

PRODUCTION METHODS FOR MANUFACTURING METEOROLOGICAL BALLOONS
AD-432900 N64-21404 14-17

FEASIBILITY OF BALLOON TRAJECTORY ANALYSIS UTILIZING ANALYTICAL PHOTOGRAMMETRY
CER63RWH31 N64-21519 15-08

LOW SPEED WIND TUNNEL TESTS OF KITE BALLOON MODEL AERODYNAMIC STABILITY
ARC-CP-643 N64-21700 15-02

BALLOON STUDY OF RADIATION DISTRIBUTION IN EARTH SURFACE-ATMOSPHERE SYSTEM N64-22034 15-28

WIND PROTECTION FOR RADIOSONDE BALLOONS
FTD-TT-63-708/162 N64-22658 15-15

RESPONSE OF SPHERICAL BALLOON TO WIND GUSTS
NASA-TM-X-51764 N64-24031 16-04

AERODYNAMICS OF SPHERICAL BALLOON WIND SENSORS
NASA-RP-228 N64-25969 18-04

CONTINUOUS TRANSMISSION MULTICHANNEL RADIOSONDE FOR METEOROLOGICAL SOUNDINGS
AFCRL-64-326 N64-26181 18-32

DETECTION OF BREMSSTRAHLUNG X-RAY RADIATION AT BALLOON ALTITUDES N64-26602 18-28

ASTRONOMY, IONOSPHERIC AND COSMIC PHYSICS, BALLOONS, ROCKETS, AND SATELLITES
NASA-TT-F-9023 N64-27137 19-29

MICROMETEOROLOGICAL NETWORK USING CAPTIVE BALLOONS FOR WIND MEASUREMENT
APGC-TDR-64-24 N64-28865 20-21

TAIL SECTION DESIGN, DEVELOPMENT OF NEOPRENE AND NATURAL LATEX COMPOUNDS, AND ENVIRONMENTAL TESTING FOR DUAL PURPOSE FAST RISE BALLOONS
AD-602760 N64-29710 21-04

NEOPRENE ELASTOMERS FOR BALLOON FABRICATION
REPT.-1 N64-29922 21-19

PHYSICAL AND CHEMICAL CHARACTERISTICS OF BALLOONS AND BALLOON MATERIALS - FLIGHT CONDITION EFFECTS ON BALLOON PERFORMANCE
AD-601997 N64-30194 21-19

HOOP AND SHEAR STRESS IN NONSYMMETRIC BALLOON SHAPES
AD-419722 N64-31174 22-04

BALLOON LAUNCHINGS IN 1963 SKYHOOK SERIES
REPT.-1363 N64-31228 22-04

BALLOON FLIGHT
RADAR AND RAWINSONDE DATA DIFFERENCES FOR SERIES OF RAWINSONDE BALLOON FLIGHTS
ERDA-115 N64-17504 09-21

BALLOON OBSERVATIONS OF STRUCTURE OF AURORAL ZONE ELECTRON PRECIPITAION EVENTS
AFOSR-424 N64-19797 12-21

MONITORING INSTRUMENTATION FOR PHYSIOLOGICAL RESPONSE OF EXPERIMENTAL ANIMALS IN BALLOON FLIGHTS
NASA-CR-53652 N64-20598 13-14

FAST NEUTRONS IN EARTH ATMOSPHERE - BALLOON FLIGHTS
NASA-CR-56082 N64-20631 13-21

BALLOON FLIGHT ANALYSIS FOR TIME VARIATIONS OF FAST NEUTRON FLUX AT HIGH ALTITUDES
NASA-CR-56298 N64-22455 15-12

OPERATION OF STRATOSCOPE II BALLOON
NASA-CR-56309 N64-22468 15-12

TEMPERATURE LAPSE RATE EFFECT ON BALLOON ASCENT RATE
ERDA-140 N64-25594 17-04

MOTION AND NET DRAG COEFFICIENTS OF FREE MOVING SPHERES - BALLOON WIND SENSORS
NASA-TM-X-53089 N64-31549 23-04

SPACE CALIBRATION OF STANDARD SOLAR CELLS USING HIGH ALTITUDE BALLOON FLIGHTS N64-32737 24-06

BALLOON SOUNDING
BALLOON-FLIGHT OBSERVATIONS OF SOLAR COSMIC RAY OUTBURSTS
CR-55, SUPPL. N64-12954 04-21

CHEMILUMINESCENT OZONE BALLOON SONDE FOR MEASURING ATMOSPHERIC OZONE CONCENTRATIONS
AFCRL-64-212 N64-15724 07-07

LIGHTWEIGHT BALLOON-BORNE TRANSOSONDE - METEOROLOGICAL INSTRUMENTS
NRL-5921 N64-16974 09-08

RADAR AND RAWINSONDE DATA DIFFERENCES FOR SERIES OF RAWINSONDE BALLOON FLIGHTS
ERDA-115 N64-17504 09-21

RADAR REFLECTION CHARACTERISTICS OF ECHO II SATELLITE, DODECAHEDRON BALLOONS AND SPHERICAL CAV
NASA-CR-53827 N64-19618 12-32

BALLOON OBSERVATIONS OF STRUCTURE OF AURORAL ZONE ELECTRON PRECIPITAION EVENTS
AFOSR-424 N64-19797 12-21

MONITORING INSTRUMENTATION FOR PHYSIOLOGICAL RESPONSE OF EXPERIMENTAL ANIMALS IN BALLOON FLIGHTS
NASA-CR-53652 N64-20598 13-14

FAST NEUTRONS IN EARTH ATMOSPHERE - BALLOON FLIGHTS
NASA-CR-56082 N64-20631 13-28

BALLOON FLIGHT ANALYSIS FOR TIME VARIATIONS OF FAST NEUTRON FLUX AT HIGH ALTITUDES
NASA-CR-56298 N64-22455 15-12

OPERATION OF STRATOSCOPE II BALLOON
NASA-CR-56309 N64-22468 15-32

TEMPERATURE LAPSE RATE EFFECT ON BALLOON ASCENT RATE
ERDA-140 N64-25594 17-04

SMALL SCALE FEATURES OF VERTICAL WIND PROFILES FROM HIGH RESOLUTION BALLOON SOUNDINGS ABOVE TROPOPAUSE
NASA-TM-X-53115 N64-30512 22-21

INFRARED BACKGROUND MEASUREMENTS MADE BY AUTOMATIC PROGRAMMED RADIOMETER SYSTEM DURING BALLOON FLIGHT OF 29 OCTOBER 1962
AD-421461 N64-31154 22-21

ANALOG-TO-DIGITAL CONVERTER-PULSE HEIGHT ANALYZER FOR DATA REDUCTION FROM BALLOON MEASUREMENTS
NASA-TM-X-55077 N64-33559 24-09

BALLOT THEOREM
BALLOT THEOREM APPLICATIONS IN ORDER STATISTICS
CU-39-64-NONR-266/33/MS N64-20543 13-20

DISTRIBUTION FUNCTIONS OF BALLOT THEOREM IN ORDER STATISTICS
CU-40-64-NONR-266/33/MS N64-20544 13-20

GENERALIZATIONS OF BALLOT THEOREM IN MATHEMATICAL STATISTICS AND QUEUE THEORY
CU-41-64-NONR-266/59/MS N64-20545 13-20

RANDOM DISTRIBUTION OF GAS MOLECULES IONIZED BY ELECTRONS IN ELECTRON TUBE
CU-43-64-NONR-266/59/MS N64-20546 13-23

BALLOT THEOREM APPLICATION TO STOCHASTIC LAW FOR FLUCTUATION OF QUEUE
CU-45-64-NONR-266/59/MS N64-33508 24-20

BALLUTE
CF DRAG DEVICE
CF PARACHUTE
GEMINI PROJECT - AERODYNAMIC PERFORMANCE OF BALLUTE DECELERATORS MOUNTED TO MODEL SUPPORT STRUT & TO RIGID MANIKIN
AEDC-TDR-63-255 N64-12073 03-02

BALMER SERIES
STARK EFFECT /BROADENING/ ON HIGH BALMER SERIES LINES EMITTED BY SOLAR FLARES N64-30262 22-28

BANACH SPACE
CF FUNCTIONAL ANALYSIS
CF VECTOR SPACE
ONE-DIMENSIONAL COHOMOLOGY IN DOMAINS OF HOLOMORPHY - BANACH SPACES
AROD-1323-29 N64-16843 08-20

WEAK CONVERGENCE IN CERTAIN SPECIAL BANACH SPACES
MRC-443 N64-17625 09-20

EXISTENCE & STABILITY OF ALMOST PERIODIC SOLUTIONS OF DIFFERENTIAL EQUATIONS IN BANACH SPACE
MRC-455 N64-20336 13-20

ESSENTIAL CONDITIONS FOR OPTIMAL CONTROL IN BANACH SPACES
JPRS-26168 N64-28137 20-20

BANACH ALGEBRA AND CONVOLUTION SEMIGROUPS
AD-602024 N64-31555 23-20

STABILITY, PERIODICITY, AND NEAR PERIODICITY OF SOLUTIONS OF NONLINEAR DIFFERENTIAL EQUATIONS IN BANACH SPACES
MRC-496 N64-31965 23-20

BAND
S ABSORPTION BAND
S SCHUMANN-RUNGE BAND SYSTEM

BANDWIDTH
BROADBAND LINE SOURCE ILLUMINATOR FOR SPHERICAL REFLECTING SURFACE
AFCRL-63-302 N64-11457 03-23

EQUIPMENT FOR RECORDING ELECTROMAGNETIC BROADBAND WAVES USING LOGARITHMIC CHARACTERISTICS
N64-11876 03-15

INSTANTANEOUS BROADBAND TRAVELING WAVE MASER SYSTEM - REQUIREMENTS FOR STRUCTURE AND MAGNETIC FIELD
RADC-TDR-63-461 N64-12592 04-25

BROADBAND MATCHING THEORY BASED ON COMPLEX NORMALIZATION PRINCIPLE
RADC-TDR-63-512 N64-15725 07-09

BROADBAND DIGITAL SEISMOMETER EVALUATION
AFCRL-64-33 N64-19209 11-15

FIVE-REACTANCE-ELEMENT FILTER FOR BROADBAND COMPENSATION DESIGN
PIBMRI-1210-64 N64-21150 14-09

WIDE BAND RECORDER AND SUPPORTING EQUIPMENT
CLD-1596 N64-21904 15-09

BROADBAND TRANSMITTING AND RECEIVING EQUIPMENT FOR TRANSDUCER MEASUREMENT
HW-81955 N64-25190 17-09

NARROW BANDWIDTH OPTICAL FILTERS FOR ULTRAVIOLET AND VISIBLE LIGHT SPECTROPHOTOMETRY
ASD-TDR-63-523 N64-25486 17-08

BROADBAND MICROWAVE POWER LIMITERS - SCALING, BIAS CRYSTALS, DIODE MOUNTS, AND LOW POWER PERFORMANCE OF L BAND-S BAND UNIT
QPR-3 N64-25527 17-09

NARROW BAND PHASE-LOCK TRACKING FILTER
NASA-TM-X-55020 N64-27254 19-08

NARROW AND WIDEBAND PHOTOMETRY POLARIZATION OBSERVATIONS OF AIRGLOW AND ZODIACAL LIGHT
NASA-CR-56881 N64-27274 19-12

TELEVISION BANDWIDTH EFFECTS ON TARGET IDENTIFICATION
NMC-TM-64-2 N64-31640 23-08

OSCILLATOR BUILD-UP TIME CHARACTERISTIC AND EXPRESSION FOR TRANSMITTER BANDWIDTH IN TERMS OF CIRCUIT PARAMETERS FOR UNPOWERED PERSONAL TRANSMITTER
AD-439830 N64-32362 23-09

BANSHEE PROJECT
TESTING OF BANSHEE PROJECT ELECTROMAGNETIC MEASURING INSTRUMENTS
EG&G-B-2687 N64-20096 13-23

BAR
STRESS ON RECTANGULAR TENSILE BAR WEAKENED BY SURFACE CRACKS
WAL-TR-811.8/5 N64-12379 03-33

ANALYSIS OF VIBRATIONS OF THIN SHELL MODELS & BAR SYSTEMS WITH ELECTRONIC APPARATUS
FTD-TT-63-735/1&2&364 N64-12632 04-33

MECHANICAL AND PHOTOELASTIC BEHAVIOR OF BIREFRINGENT BAR SUBJECTED TO VIBRATIONS
N64-18205 08-23

METHOD FOR SOLVING PROBLEM OF LONGITUDINAL RESPONSE OF FREE-FREE NONUNIFORM BAR TO ARBITRARY FORCE APPLIED AT ONE END
NASA-TN-D-2416 N64-26779 18-33

RANDOM VIBRATIONS OF NONLINEAR ELASTIC BARS AND PLATES
AFOSR-64-0887 N64-27539 19-33

TORSION OF HOLLOW BAR OF RECTANGULAR CROSS SECTION
TIL/T-5488 N64-33254 24-33

BARITE
EFFECT OF FLUORIDE, SULFATE, & CHLORIDE IONS ON ADSORPTION OF OLEATE ON FLUORITE AND BARITE
BM-RI-6412 N64-17983 10-25

SELECTIVE FLOTATION OF BARITE-FLUORSPAR ORE
BM-RI-6491 N64-25840 18-07

BARIUM
SHAPE CALCULATION IN NUCLEAR DEFORMATION REGION AMONG NEUTRON DEFICIENT ISOTOPES OF BARIUM
TR-14 N64-13991 05-23

ION DENSITY MEASUREMENT IN BARIUM PLASMA BY SCATTERING OF RESONANCE RADIATION
MATT-207 N64-15356 07-24

X-RAY FLUORESCENCE ANALYSIS OF POTASSIUM, BARIUM, RUBIDIUM, STRONTIUM, TITANIUM, ZIRCONIUM, AND PHOSPHORUS
RSIC-137 N64-17656 09-07

PLASMA THERMIONIC ENERGY CONVERTERS USING BARIUM AS VAPOR MATERIAL
MND-2933-2 N64-21345 14-06

BARIUM VAPOR FILLED THERMIONIC ENERGY CONVERTERS
N64-22991 16-09

EFFECTIVE SECTION BETWEEN COMPETING DISINTEGRATION SCHEMES FOR RADIOACTIVE ISOTOPE OF BARIUM PRODUCED BY SYNCHROCYCLOTRON BOMBARDMENT OF CESIUM
N64-32012 23-23

MAGNETOHYDRODYNAMICS - MAGNETICALLY INDUCED IONIZATION IN POWER GENERATOR AND BARIUM DIODES
SAR-2 N64-32153 23-24

EQUILIBRIUM OF BARIUM IN SOLAR ATMOSPHERE
N64-33455 24-28

BURNING RATE AND FLAME TEMPERATURE MEASUREMENT OF BARIUM-CONTAINING COMBUSTIBLE MIXTURE
AFCRL-64-675 N64-33648 24-26

GROWTH OF ZINC YTTRIUM COMPOUND WITH MANGANESE OXIDE FROM BARIUM BORATE MELTS
S-658 N64-33945 24-25

BARIUM COMPOUND
CRYSTAL STRUCTURE OF BARIUM CHLORIDE, BROMIDE, AND IODIDE
N64-11422 02-25

PROPERTIES OF ALKALI AZIDES AND BARIUM AZIDES AND EFFECTS ON THERMODYNAMIC AND THERMOCHEMICAL DATA
MTSR-1 N64-28149 20-02

CHEMICAL PROPERTIES OF ACTIVE ALKALI AZIDES AND BARIUM AZIDE
MTSR-2 N64-28152 20-07

DEHYDRATION BEHAVIOR OF BARIUMAZIDE-MONOHYDRATE
AD-448342 N64-32980 24-07

BARIUM FERRITE
SEPARATION OF GASEOUS HYDROGEN-ARGON, HYDROGEN-KRYPTON AND HELIUM-KRYPTON IN POROUS BARIUM FERRITE WITHIN PRESSURE AND TEMPERATURE GRADIENT
JPRS-18180 N64-10571 01-23

BARIUM FLUORIDE
VIBRONIC SPECTRA OF BIVALENT SAMARIUM IN STRONTIUM AND BARIUM FLUORIDE HOSTS - MODEL FOR ANALYSIS OF VIBRONIC TRANSITIONS
TDR-169/3250-24/TN-3 N64-13777 05-25

VAPOR PRESSURE AND HEAT OF SUBLIMATION OF BARIUM FLUORIDE
UCRL-11124 N64-17263 09-19

BARIUM ZIRCONATE
GROWTH OF LARGE CUBIC CRYSTALS FOR LASERS FROM STANNATES, TITANATES, AND ZIRCONATES OF BARIUM AND STRONTIUM
AD-442555 N64-29681 21-25

BARKHAUSEN EFFECT
CF FERROMAGNETISM
CF MAGNETIC CIRCUIT
CF MAGNETIC COIL
CF OSCILLOGRAPH
BARKHAUSEN EFFECT IN IRRADIATED PURE IRON AND NICKEL
AD-433849 N64-32571 23-20

BAROCLINIC WAVE
NUMERICAL INTEGRATION TECHNIQUES FOR BAROCLINIC WEATHER FORCASTING
AFCRL-64-600 N64-31834 23-21

INVERSION METHOD FOR BAROCLINIC ANGULAR VELOCITY EQUATION OF QUASIGEOTROPIC MODELS
AD-603571 N64-33835 24-21

BAROMETRIC PRESSURE
S ATMOSPHERIC PRESSURE

BARRIER
CHROMIUM AS A METALLIC BONDING & DIFFUSION BARRIER BETWEEN URANIUM & ALUMINUM
EUR-413.F N64-11263 02-11

RADIATION DOSE RECEIVED BY DETECTOR WITH VERTICAL BARRIER BETWEEN IT AND RADIATION FIELD
USNRDL-TR-677 N64-12641 04-21

RADIATIVE HEAT TRANSFER IN LOW DENSITY CERAMICS WITH BARRIER PHASE IN REFRACTORY STRUCTURE - THERMAL INSULATING MATERIAL
NASA-CR-55559 N64-15533 07-19

DETONATION WAVE PHENOMENA USING DUAL EXPLOSIVE CHARGES SEPARATED BY METAL BARRIER
NAVWEPS-8507 N64-24330 17-21

FEASIBILITY OF INITIATING ROCKET MOTOR THROUGH BARRIER USING HIGH EXPLOSIVES WITHOUT PERFORATING BARRIER
TR-3085 N64-31264 22-21

BARYCENTER
S GRAVITY CENTER

BASE HEATING
ROCKET EXHAUST PLUME RADIATIVE HEAT TRANSFER TO ROCKET BASE
AIAA PAPER-64-60 N64-14150 05-11

EFFECT OF NONISOTHERMAL AND NONGRAY GAS ON EMISSIVITY AT CENTER OF BASE OF CYLINDRICAL GAS BODY
NASA-CR-50208 N64-26871 19-07

BASTNASITE
METATHESIS OF BASTNASITE AND SOLVENT EXTRACTION OF CERIUM
BM-RI-6381 N64-15831 07-07

BAT
MECHANISMS OF SPATIAL ORIENTATION IN BATS
JPRS-27285 N64-33974 24-14

BATTERY
SA ANODE
SA CATHODE
SA DRY CELL BATTERY
SA ELECTRIC CELL
SA LECLANCHE BATTERY
SA NICKEL CADMIUM BATTERY
SA SILVER-CADMIUM BATTERY
SA SILVER-ZINC BATTERY
SA ZINC-SILVER OXIDE BATTERY
CF ELECTROLYTE
OXIDATION TESTING, CELLOPHANE DEGRADATION AND MODIFICATION, AND DIFFUSION RATE OF SILVER IONS - ALKALINE BATTERY SEPARATOR
NASA-CR-52491 N64-10368 01-19

EVALUATION OF ALKALINE BATTERY SEPARATOR MATERIALS
NASA-CR-52478 N64-10369 01-19

HIGH ENERGY DENSITY PRIMARY BATTERY
NASA-CR-52550 N64-10901 02-06

LOW TEMPERATURE OPERATION OF MAGNESIUM ANODE BATTERIES
AD-425168 N64-12308 03-03

CYCLE-LIFE TESTING OF ALKALINE BATTERIES
ASD-TDR-63-394 N64-12325 03-20

GAS, LIQUID, & CHEMICAL SOURCES OF HYDROGEN FOR USE WITH FUEL CELL BATTERIES - BIBLIOGRAPHY
TR-1168 N64-12661 04-19

IMPROVED LOW TEMPERATURE ALKALINE MANGANESE DIOXIDE PRIMARY CELL
AD-423090 N64-12829 04-06

ELECTROCHEMISTRY OF NONAQUEOUS BATTERY OPERATION, BATTERY DEVELOPMENT PLANS, AQUEOUS AND NONAQUEOUS ANODIZING, AND BERYLLIUM DIALKYL SALT PREPARATION
NASA-CR-55015 N64-13002 04-06

CELL EQUALIZATION TECHNIQUES FOR SPACECRAFT POWER SUPPLIES HAVING ALKALINE BATTERY CELLS COUPLED WITH SOLAR CELLS
RTD-TDR-63-4187 N64-13819 05-06

ALKALINE BATTERY EVALUATION - CYCLE LIFE PERFORMANCE & FAILURE ANALYSIS
RTD-TDR-63-4144 N64-14962 06-06

CONVERSION OF ENERGY BY SEA WATER BATTERY PLUS TUNNEL DIODE CONVERTER AS POWER SOURCE
NRL-5961 N64-15129 07-06

LIGHTWEIGHT PORTABLE BATTERY CHARGERS
ARI-167 N64-15600 07-06

HIGH ENERGY BATTERY SYSTEM
R-5405-1 N64-15694 07-06

FAILURE MODE ANALYSIS OF AMMONIA BATTERY SYSTEM
REPT.-13 N64-15766 07-06

OPTIMUM CARBON BLACK FOR DEPOLARIZER BATTERIES
AD-430442 N64-15940 07-06

ELECTROLYTE SELECTION FOR HIGH ENERGY DENSITY STORAGE BATTERY
NASA-CR-55743 N64-16268 08-06

MOLTEN-CARBONATE FUEL BATTERY
TI-08-63-63 N64-16300 08-06

DESIGN SPECIFICATIONS, TEST RIG, AND MEMBRANE PERFORMANCE FOR OSMOTIC STILL - CELL TESTING AND ASSEMBLY FOR DUAL MEMBRANE FUEL CELL
NASA-CR-55696 N64-16319 08-06

RESEARCH ON HIGH CAPACITY NONAQUEOUS SECONDARY BATTERY ANODE AND CATHODES
NASA-CR-53087 N64-16736 08-06

HIGH ENERGY DENSITY PRIMARY BATTERIES
NASA-CR-53111 N64-16762 08-06

HYDROGEN-OXYGEN SOLID-ELECTROLYTE FUEL CELL BATTERIES FOR SPACE APPLICATION
N64-17410 09-06

TRANSPORT MECHANISM OF SILVER IN SILVER-ALKALINE CELLS AND SILVER INTERACTION WITH SEPARATOR MATERIALS
N64-17418 09-06

LARGE SCALE PROGRAM FOR SECONDARY SPACE BATTERIES
N64-17419 09-06

CARBON BLACKS FOR ORGANIC DEPOLARIZED BATTERIES
N64-17427 09-06

EVALUATION OF CATHODE MIX, SEPARATOR PAPER, CAN MATERIAL, AND CATHODE MOLDING PARAMETERS FOR LOW TEMPERATURE ALKALINE-MANGANESE DIOXIDE BATTERY
AD-433225 N64-17622 09-06

ELECTROCHEMICAL STUDY OF CELL SOLVENTS IN HIGH ENERGY BATTERIES
NASA-CR-54024 N64-18441 10-06

IMPROVEMENT OF DESIGN AND PERFORMANCE OF AMMONIA CELLS AND BATTERIES
QPR-2 N64-19062 11-06

LOW TEMPERATURE OPERATION AND INSULATION OF BATTERIES
QR-5 N64-19081 11-06

DIRECT ENERGY CONVERSION TECHNOLOGY - SOLAR CELLS, MAGNETOHYDRODYNAMICS, BATTERIES, AND THERMIONICS
N64-19377 12-06

HIGH ENERGY BATTERY SYSTEM - EXAMINING ELECTRODE MATERIALS IN HALF-CELL STUDIES WITH VARIETY OF ELECTROLYTES
R-5405-2 N64-20375 13-06

ALKALINE CELLS & BATTERIES - ZINC-ALKALINE MERCURIC OXIDE SYSTEM
AD-439454 N64-21315 14-06

OPTIMUM PARAMETERS FOR CONSTRUCTION OF SEALED ZINC-SILVER OXIDE BATTERY
REPT.-2 N64-21468 14-06

LITHIUM-COPPER FLUORIDE & LITHIUM-COBALT FLUORIDE COUPLES FOR HIGH ENERGY BATTERY SYSTEMS FOR SPACE APPLICATIONS
AD-433543 N64-21486 14-06

COMPATIBILITY OF MATERIALS FOR LITHIUM-NICKEL HALIDE SECONDARY BATTERY
AD-433616 N64-21668 15-06

HOT DRY PRESSED SILVER CHLORIDE CATHODES FOR AMMONIA BATTERY AND ORGANIC CATHODES FOR AQUEOUS ELECTROLYTIC BATTERY
NOLC-597, SUPPL. N64-22088 15-06

PHYSICAL PROPERTIES OF CALCIUM-AMMONIA SOLUTIONS AND AMMONIA BATTERIES
NOLC-597 N64-22880 16-06

AUTOMATICALLY ACTIVATED AMMONIA BATTERIES
N64-22886 16-06

HIGH ENERGY DENSITY NONAQUEOUS BATTERIES - GENERAL ENERGY CONSIDERATION ON ROLE OF SOLVENT
N64-22887 16-06

STATISTICAL METHODS IN ELECTROCHEMICAL RESEARCH
N64-22890 16-06

ELECTROCHEMICAL BATTERIES - ANNOTATED BIBLIOGRAPHY
SB-63-14 N64-22957 16-06

BATTERY CHARGER CIRCUIT
ARI-191 N64-22968 16-06

BATTERY CHARGE CONTROL USING SEMICONDUCTOR DEVICES
AD-435833 N64-23916 16-09

SEPARATION MEMBRANE FOR SILVER OXIDE-ZINC AND SILVER OXIDE-CADMIUM CELLS FOR SPACECRAFT APPLICATION
NASA-CR-56345 N64-23942 16-06

LITHIUM-CUPRIC FLUORIDE AND LITHIUM-COBALTIC FLUORIDE ELECTROCHEMICAL CELLS FOR BATTERIES
APL-TDR-64-59 N64-23970 16-09

HIGH ENERGY DENSITY BATTERIES - 200 WHRS/LB
NASA-CR-56449 N64-24045 16-06

HIGH ENERGY DENSITY NONAQUEOUS BATTERY
NASA-CR-56463 N64-24046 16-09

PERFORMANCE OF HEATED AND UNHEATED INSULATED BATTERY SYSTEMS IN LOW TEMPERATURE ENVIRONMENT
QR-6 N64-25294 17-06

LITHIUM-SILVER CHLORIDE SECONDARY BATTERY STUDY
QPR-1 N64-25895 18-07

BATTERY LIFE CYCLE TESTS
NASA-CR-50060 N64-26363 18-06

MORPHOLOGY OF LEAD OXIDE IN POSITIVE PLATES OF LEAD-ANTIMONY AND LEAD-CALCIUM STORAGE BATTERIES
NRL-6048 N64-26815 18-07

PRINTED BATTERY PLATE TECHNIQUES AND RESULTS - ENERGY STORAGE N64-27109 19-06

SOLID STATE TIMING APPARATUS TO DISCONNECT SOLAR

CELLS FROM BATTERIES AFTER TWO YEAR PERIOD
NASA-TM-X-55019 N64-27253 19-06

LIFETIME CYCLING TESTS OF BATTERIES FOR SPACECRAFT POWER SUPPLIES
NASA-CR-56478 N64-27379 19-06

LITHIUM-NICKEL HALIDE SECONDARY BATTERY - HALF CELLS, ELECTROLYTE CONDUCTIVITIES, POSITIVE AND NEGATIVE ELECTRODE PREPARATIONS
AD-601148 N64-27769 19-06

TESTING OF ZINC-ALKALINE-MERCURIC OXIDE PRIMARY CELLS AND BATTERIES
REPT.-7 N64-27851 19-06

LIFE CYCLE TESTING OF 5 AND 10 CELL BATTERIES
NASA-CR-56475 N64-27887 20-06

BATTERY LIFE CYCLE TEST RESULTS
NASA-CR-56416 N64-27913 20-06

AUXILIARY POWER GENERATING SYSTEM FOR LARGE SPACE LABORATORY - SOLAR DYNAMIC SYSTEMS, SOLAR CELLS AND BATTERIES, AND SYSTEM FOR NUCLEAR AUXILIARY POWER-8 /SNAP-8/
AIAA PAPER-64-719 N64-28373 20-06

ELECTROCHEMICAL ENERGY CONVERSION FOR NONAQUEOUS RESERVE BATTERY SYSTEMS
NAVWEPS-8193 N64-28789 20-06

THIN PLATE BATTERY BASED ON LIQUID-ACTIVATED AMMONIA
QR-1 N64-29350 21-06

DRY TAPE BATTERY - ORGANIC NITRO COMPOUND DEPOLARIZERS, ELECTROLYTE ENCAPSULATION, & TAPE MANUFACTURING METHODS
NASA-GR-54165 N64-29417 21-06

COMPARISON OF LEAD ACID CELLS IN FLOAT CYCLE ROUTINE OF LEAD CALCIUM BATTERY
NRL-6078 N64-30042 21-06

NOISE OUTPUT OF BUBBLING ELECTROLYTIC CELL UNDER VARIOUS OPERATIONAL CONDITIONS
IDO-16975 N64-30067 21-06

CARBON PRODUCTION FOR ORGANIC DEPOLARIZER PRIMARY CELL BATTERIES
REPT.-3 N64-30579 22-19

CORRELATION BETWEEN ELECTROLYTE COMPOSITION VARIATIONS AND ELECTRODE BEHAVIOR CHANGES FOR NONAQUEOUS SECONDARY BATTERIES
NASA-CR-54164 N64-30863 22-06

HIGH ENERGY DENSITY PRIMARY BATTERY DEVELOPMENT
NASA-CR-54083 N64-31454 23-06

MEASUREMENTS OF POLARIZATION VOLTAGE LOSSES AND DESIGN OF CEROLYTE FUEL CELL BATTERY
QTPR-2 N64-33526 24-06

PRIMARY BATTERY SYSTEM WITH MINIMUM ENERGY DENSITY OF 200 WATT HOURS PER POUND
NASA-CR-54118 N64-33617 24-06

ELECTRONIC DESIGN & OPERATIONAL CHARACTERISTICS OF TESTING MACHINE FOR LIQUID AMMONIA RESERVE BATTERY
NAVWEPS-8195 N64-33862 24-06

CONTROLLING ELECTROLYTE LEVELS IN CYCLING SEALED BATTERY CELLS WITH BELLOWS ASSEMBLY
NASA-CR-59373 N64-33918 24-06

FABRICATION OF LONG LIFE, HIGH ENERGY DENSITY SECONDARY BATTERY BASED ON LITHIUM-SILVER CHLORIDE SYSTEM - AEROSPACE APPLICATIONS
QTPR-2 N64-33979 24-06

BAYESIAN STATISTICS
BAYESIAN INFERENCE APPLIED TO TRACKING PROBLEM - CURRENT MEAN OF NORMAL DISTRIBUTION SUBJECTED TO CHANGES IN TIME
TR-91 N64-13092 04-20

CANONICAL RELATIONS FOR ERROR PROBABILITIES AND DISTRIBUTION DENSITIES OF BINARY BAYES DETECTORS AND TWO CLASSES OF SIGNALS PLUS NOISE
AFCRL-63-561 N64-14700 04-20

SOLUTION TO TWO-PERSON ZERO-SUM GAME THEORY PROBLEM USING BAYESIAN STATISTICAL METHOD
N64-19860 12-20

BAYESIAN SINGLE SAMPLING ATTRIBUTE PLANS OBTAINED BY MINIMIZING AVERAGE COSTS AND ASSUMING DOUBLE BINOMIAL DISTRIBUTION
TR-5 N64-29606 21-20

BAYESIAN ESTIMATION IN MULTIVARIATE LINEAR PREDICTION
MRC-503 N64-31902 23-20

STATISTICAL DECISION THEORY AND BAYESIAN EFFECTIVENESS OF INFORMATION SYSTEMS
DRD-64-112 N64-31967 23-20

EVALUATION OF AUTOMATED HYPOTHESIS AIDS IN MULTIMAN-MACHINE SYSTEMS TO ASSESS OR DIAGNOSE THREATS - BAYES THEOREM
AMRL-TDR-64-51 N64-33907 24-14

BE-A
S-66 SATELLITE OPTICAL TRACKING EXPERIMENT USING LASER BEACON
NASA-TM-X-52075 N64-10108 01-25

BEACON SATELLITE STUDY OF SMALL IONOSPHERIC IRREGULARITIES
NASA-CR-56481 N64-22421 15-12

SPATIAL AND TEMPORAL VARIATION OF IONOSPHERE BY POLAR IONOSPHERE BEACON SATELLITE - BE-A
NASA-TM-X-55009 N64-24990 17-12

BE-3 ROCKET ENGINE
BE-3 ROCKET ENGINES - MANUFACTURE, RELIABILTY, AND TEST FIRING
HPC-230-12-3-3 N64-33799 24-17

BEACON
CF POSITION INDICATOR
CF SIGNAL
BEACON VIDEO CHANNEL PERFORMANCE OF FAA RML-4 RADAR MICROWAVE LINK
CER-D1695 N64-14910 04-01

DOPPLER TRACKING RESULTS USING CONTINUOUS WAVE BEACON TRANSMITTER
NASA-TN-D-2188 N64-16930 09-01

AERIAL BEACON INSTALLATION HAVING BEACON SUPPORTED BY AIR SCREW AND CONNECTED WITH CONTROL POST BY FLEXIBLE ATTACHMENT DEVICE
RSIC-141 N64-17640 09-10

LARGE-SIGNAL BEHAVIOR OF PARAMETRIC MAGNETOGASDYNAMIC GENERATOR
RTD-TDR-63-4132 N64-20101 13-24

SATELLITE-BORNE XENON FLASH OPTICAL BEACON FOR USE ON RANGE CALIBRATION SATELLITE - DESIGN STUDY
EG&G-B-2730, PT. 3 N64-21241 14-06

BEACON TRACK & PERFORMANCE PAYLOAD TELEMETRY SYSTEM FOR WEST FORD PROJECT
ESD-TDR-64-21 N64-30773 22-09

THREE-PULSE SIDE LOBE SUPPRESSION TECHNIQUE FOR AIR TRAFFIC CONTROL RADAR BEACON SYSTEM
RD-64-36 N64-32467 23-09

FLIGHT TEST OF MODIFIED GROUND BEACON AND DISTANCE MEASURING EQUIPMENT FOR INSTRUMENT LANDING SYSTEM
AD-602743 N64-33068 24-22

BEACON SATELLITE
BEACON EXPLORER SATELLITE FOR IONOSPHERIC STUDY AND EVALUATION OF LASER TECHNIQUE FOR DERIVING ORBITAL AND GEODETIC INFORMATION
N64-32948 24-32

MEASURING DISPERSIVE DOPPLER FREQUENCY WITH S-66 IONOSPHERIC BEACON SATELLITE

BRL-MR-1579 N64-33359 24-08

BEAM
S ATOMIC BEAM
S BEAM CURRENT
S BEAM SWITCHING
S BEAM WAVEGUIDE
S BOX BEAM
S CANTILEVER BEAM
S CURVED BEAM
S ELECTRON BEAM
S GAMMA RAY BEAM
S ION BEAM

BEAM CURRENT
ROLE OF CHROMATIC ABERRATIONS IN BEAM TRANSPORT CHANNEL DESIGN AND PROPERTIES
CERN-64-2 N64-15425 07-23

BEAM INJECTION TO LARGE RADIO FREQUENCY SYNCHROTRON - PARTICLE ACCELERATION
CERN-64-20 N64-21775 15-24

EFFECT OF ION EXTRACTION SYSTEM GEOMETRY ON BEAM CURRENT INTENSITY
FTD-MT-64-331/1&2 N64-21978 15-24

MASS FLOW, BEAM CURRENT, VOLTAGE, AND THRUST MEASUREMENTS OF INDUCTION CHARGED COLLOID GENERATING SYSTEM FOR ELECTRIC PROPULSION
NASA-CR-54049 N64-25007 17-27

BEAM TRANSPORT SYSTEM FOR 600-MEV SYNCHROCYCLOTRON
N64-28166 20-10

EFFECT OF BEAM CURRENT DECREASE ALONG SLOW WAVE SYSTEM ON OPERATION OF BACKWARD WAVE AND TRAVELING WAVE TUBES N64-31352 23-09

BEAM WAVEGUIDE
GUIDED PROPAGATION OF OPTICAL SIGNAL BY BEAM WAVEGUIDE
RADC-TDR-64-65 N64-30937 22-23

DIELECTRIC RADIATING LENS FED BY GOUBAU ELECTROMAGNETIC BEAM WAVEGUIDE
TR-80 N64-32624 23-23

MEASUREMENTS OF FAR FIELD RADIATION PATTERNS IN NEAR FIELD OF RADIATING LENS FED WITH GOUBAU BEAM WAVEGUIDE
TR-81 N64-33028 24-08

CROSS SECTION AND CURVATURE VARIATIONS OF BEAM WAVEGUIDE PASSING THROUGH OPTICAL SYSTEM
TR-79 N64-33300 24-23

BEARING
SA BALL BEARING
SA GAS BEARING
SA JOURNAL BEARING
ELASTOHYDRODYNAMIC LUBRICATION IN ROLLING CONTACT BEARING FATIGUE
NASA-RP-43 N64-10175 01-33

EFFECT OF PRESSURIZED LUBRICANT ON SELF-ACTING FOIL BEARING FILMS
RR-63-6 N64-12079 03-17

LUBRICATION OF GUIDANCE, CONTROL, AND INSTRUMENT BEARINGS IN SPACE ENVIRONMENT
NASA-TM-X-50798 N64-12400 03-17

TORQUE LEVELS FOR LUBRICATED BEARINGS AT LOW TEMPERATURES & VARIOUS LOADINGS
NASA-CR-55268 N64-13399 04-17

SOLID-FILM LUBRICATED BEARINGS
PWA-2288 N64-14026 05-17

FUNDAMENTALS OF FRICTION AND WEAR ON FLUID FILM AND ROLLING-ELEMENT BEARINGS
NASA-SP-38 N64-15226 07-01

FUNDAMENTALS OF BEARING TECHNOLOGY
N64-15227 07-17

BOUNDARY LUBRICATION OF BEARINGS
N64-15228 07-17

HYDRODYNAMIC LUBRICATION OF BEARINGS
N64-15229 07-11

HYDROSTATIC LUBRICATION OF BEARINGS
N64-15230 07-11

GAS-LUBRICATED BEARINGS N64-15231 07-11

ROLLING-ELEMENT BEARINGS N64-15232 07-17

LIQUID LUBRICANTS FOR BEARINGS N64-15233 07-19

NONCONVENTIONAL LUBRICANTS FOR BEARINGS
N64-15234 07-19

FRICTION AND BEARING PROBLEMS IN VACUUM AND RADIATION ENVIRONMENTS OF SPACE
N64-15235 07-17

FRICTION OF METALS, LUBRICATING COATINGS, AND CARBONS IN LIQUID NITROGEN AND HYDROGEN
N64-15236 07-17

EXTREME-TEMPERATURE BEARINGS N64-15237 07-17

FATIGUE IN ROLLING-ELEMENT BEARINGS
N64-15238 07-33

BEARING LUBRICATION WITH LIQUID METALS
N64-15240 07-18

BEARING LUBRICATION
S-13910 N64-16980 09-17

VIBRATION CHARACTERISTICS OF BALL AND ROLLER BEARINGS
AL63L023 N64-17483 09-17

GENERAL PURPOSE TEST RIG FOR ALKALI METAL LUBRICATED BEARINGS AND DESIGN AND FABRICATION OF JOURNAL BEARINGS
R-5438, PT. 1 N64-17653 09-17

ELECTRICAL SLIP BAND EMPLOYING ROLLING CONTACT ELEMENT TESTED IN HARD VACUUM ENVIRONMENT
NASA-TN-D-2261 N64-17752 09-09

PRESSURE DISTRIBUTION AND LOAD STUDIES OF COOLED-ROTOR THRUST BEARING
MTI-63TR28 N64-18044 10-17

SPIRAL GROOVE GAS LUBRICATED THRUST BEARINGS
RR-64-1 N64-18116 10-17

LOW VISCOSITY ROTOR BEARING STABILITY
NASA-CR-54039 N64-19224 11-17

GEOMETRY EFFECTS ON HALF FREQUENCY WHIRL IN GAS LUBRICATED JOURNAL BEARINGS
ASME PAPER 63-LUBS-2 N64-19966 12-17

SEALANTS & ADHESIVES FOR BEARING INSTALLATION IN STEEL AND ALUMINUM HOUSING BORES OF FLIGHT CONTROL SYSTEM
FGT-3082 N64-20044 13-19

DESIGN OF SERVOMAGNETIC SUPPORT BEARING FOR ROTATING MACHINERY - REDUCTION OF FLEXURAL VIBRATION
EMI-3421-105-64U N64-20389 13-17

PARAMAGNETIC RESONANCE IN LOADED HORIZONTAL SHAFT MOUNTED IN BEARING WITH RADIAL CLEARANCE
TIL/T-5461 N64-20869 14-17

ELASTOHYDRODYNAMIC LUBRICATION FOR ROLLING CONTACT BEARINGS, GEARS, AND CAMS
MTI-64TR6 N64-21121 14-17

BEARING LUBRICATION UNDER SEVERE CONDITIONS
S-13918 N64-21146 14-17

SELF-ACTING FOIL BEARING WITH FLUID FILM LUBRICATION
RR-64-3 N64-21147 14-17

PLASTIC BEARINGS WITH INVERTED FRICTION COUPLING
FTD-TT-63-242/162 N64-22189 15-19

EFFECTS OF CADMIUM PLATE SUBSTRATE ON WEAR LIFE AND CORROSION RESISTANCE OF DRY FILM LUBRICANT COATED BEARINGS
A754 N64-22596 15-17

STATIC AND DYNAMIC CHARACTERISTICS OF SPIRAL-GROOVED THRUST BEARING
MTI-64TR11 N64-23202 16-17

DIFFERENTIAL EQUATIONS FOR PRESSURE DISTRIBUTION AROUND HERRINGBONE-GROOVED, GAS LUBRICATED, JOURNAL BEARING
MTI-64TR15 N64-23364 16-17

ROTATING BEARINGS TO REDUCE GYROSCOPE DRIFT CAUSED BY GIMBAL BEARING FRICTION
FTD-TT-62-1900/1&264 N64-23410 16-15

BEARING CLEARANCE & MASS ECCENTRICITY EFFECT ON ROTOR VIBRATION N64-23566 16-17

FATIGUE LIFE & LOAD CHARACTERISTICS OF NEEDLE ROLLER BEARINGS UNDER OSCILLATING LOAD CONDITIONS
FIL-F-A1913 N64-23601 16-33

VALVE DESIGN, BEARING DRAG, SEAL, AND THRUST STUDIES FOR HIGH CHAMBER PRESSURE ENGINES
NASA-CR-56306 N64-23943 16-27

SPRING TO PREVENT OSCILLATION IN THRUST BEARING OF HIGH SPEED TURBINE
FTD-TT-63-161/162 N64-24264 17-17

ANNOTATED BIBLIOGRAPHY ON GEARS, BEARINGS, AND LUBRICANTS FOR AEROSPACE APPLICATIONS
SB-63-59 N64-24921 17-17

BEARING & LUBRICANT REQUIREMENTS FOR AEROSPACE INDUSTRY & TECHNOLOGY
R64SD38 N64-25356 17-17

GAS LUBRICATION AT HIGH TEMPERATURES AND LOW FLOW RATES - NITROGEN GAS LUBRICATED JOURNAL AND THRUST BEARINGS
APL-TDR-64-56 N64-25484 17-17

COMPLEX BEARING AND LUBRICATION SYSTEMS FOR HIGH SPEED, HIGH TEMPERATURE OPERATION
FDL-TDR-64-12 N64-26186 18-17

FRICTION IN BEARINGS AND GEAR TRAIN OF FLYWHEEL ACCELERATION INTEGRATOR
NOLTR-63-127 N64-26239 18-17

AXISYMMETRICAL FOIL BEARING AND EFFECTS OF COMPRESSIBLE FLOW
RR-64-6 N64-26584 18-17

COMPUTER SOLUTION FOR HYDROSTATIC BEARINGS WITH VARIABLE FILM THICKNESS
NASA-CR-56898 N64-27280 19-20

SOLID LUBRICANT FOR BEARINGS IN HIGH VACUUM ENVIRONMENT
NASA-CR-58039 N64-27310 19-17

SPIRAL GROOVE BEARINGS WHICH TRANSMIT FORCE TOWARD AXIS OF ROTATION N64-29888 21-17

SELF-ALIGNING AIRFRAME BEARINGS FOR AEROSPACE VEHICLES
QRP-2 N64-30161 21-17

MAGNETIC AND ELECTRIC FORCES FOR ROTATING SHAFT SUSPENSION - RADIALLY ACTIVE BEARING
ENI-4454-114-63U N64-30904 22-17

SELF-ALIGNING BEARING MOUNTINGS FOR OPERATION IN SPACE ENVIRONMENT
QRR-3 N64-31290 22-17

LUBRICANT PERFORMANCE ON HIGH SPEED ROLLING CONTACT BEARINGS
ASD-TDR-61-643, PT. IV N64-31938 23-17

NITROGEN GAS LUBRICATED JOURNAL AND THRUST BEARINGS FOR APPLICATION IN HIGH TEMPERATURE AND LOW FLOW RATES
MTI-64TR35 N64-32122 23-17

SELF-ALIGNING BEARING MOUNTINGS FOR AEROSPACE VEHICLE
QPR-1 N64-32360 23-17

STRUCTURAL DYNAMICS OF ROTOR AND BEARINGS IN HELICOPTER WITH BLADE MOUNTED TURBOJET ENGINES
FTD-MT-63-264 N64-32397 23-17

HIGH TEMPERATURE LUBRICANTS FOR ROLLER BEARINGS USED IN SPACE ENVIRONMENT
AD-449772 N64-32661 23-17

LUBRICATION OF BEARINGS IN AEROSPACE EQUIPMENT N64-32771 24-17

UNCONVENTIONAL METHODS FOR INFLUENCING FLUID FLOW - ION DRAG PUMP AND THRUST BEARING
ASD-TDR-63-776, VOL. III N64-33356 24-17

BEEHIVE PROJECT
S PROPELLANT

BEHAVIOR
SA CONDITIONED RESPONSE
SA HIBERNATION
SA HUMAN BEHAVIOR
SA LEARNING
CF TRAINING
ANIMAL BEHAVIOR STUDIES WITH MULTI-ENCLOSURE, PROGRAMMED ENVIRONMENT, AND TELEMETRY SYSTEMS N64-11258 02-16

CHARACTERIZATION OF VITAL MANIFESTATIONS OF TEMPERAMENT
JPRS-22405 N64-12009 03-16

PERFORMANCE OF RAT PROVIDED WITH CONTINUOUS OPPORTUNITY TO OBTAIN REINFORCING BRAIN STIMULATION N64-17498 09-16

BEHAVIORAL EFFECTS IN PIGEONS EXPOSED TO MERCURY VAPOR
UR-ENG-49-7 N64-19921 12-16

LOGIC SYSTEMS - THEORY OF STRUCTURES AND FUNCTION IN SCIENCE OF BEHAVIOR
ESD-TDR-64-193 N64-21533 15-16

BEHAVIOR OF GERMANIUM OXIDE, SILICON OXIDE, AND THEIR MIXTURES AT HIGH TEMPERATURES AND VERY HIGH PRESSURES
TR-8 N64-29021 21-25

ELECTROENCEPHALOGRAPHIC AND NEUROPHYSIOLOGICAL STUDIES OF BRAIN FUNCTION AND BEHAVIOR
AFOSR-64-1195 N64-30465 22-16

DYNAMICS OF PHYSICAL AND CHEMICAL SYSTEMS IN MAMMALS - THERMOREGULATION, CARDIOVASCULAR SYSTEMS, HORMONES, AND BEHAVIOR
NASA-CR-129 N64-32833 24-16

BENDING
IMPACT AND FLEXURE PROPERTIES OF PLASTIC FACED PANELS OF SANDWICH CONSTRUCTION
PSNS-MAT-LABS-P-565 N64-14631 08-19

METHODS FOR EVALUATING UNWOVEN GLASS-FIBER REINFORCED PLASTIC LAMINATES IN FLEXURE N64-19778 12-11

AGE FACTOR IN FLEXURE STRENGTH OF LAMINATED EPOXY AND POLYESTER MATERIALS
NOLTR-64-1 N64-23979 16-19

ELASTICITY SOLUTION OF FLEXURE, TORSION, AND BUCKLING OF MULTILAYERED BEAMS
MRC-483 N64-27718 19-20

STRAIN SOFTENING OF REFRACTORY METALS - FLEXURE PROCESS FOR LOWERING TRANSITION TEMPERATURE
QPR-2 N64-30876 22-16

REACTION OF OSCILLATING QUARTZ PLATES TO STEADY TENSION OR FLEXURE STRESS

REPT.-12 N64-32870 24-23

BENDING MOMENT
APPROXIMATIONS DETERMINATION OF BENDING MOMENTS, STRESSES AND STRAINS IN THIN RECTANGULAR PLATE
DVL-262 N64-10974 02-33

LINEAR DEPENDENCE OF MIDSHIP BENDING MOMENT ON WAVE HEIGHT - EXPERIMENTS WITH VARIED SHIP-TYPE MODELS
SSC-157 N64-15824 07-04

BENDING OF ELLIPTICAL THIN PLATES UNDER CONCENTRATED MOMENT AT CENTER
NRC-844 N64-17626 09-33

MIDSHIP BENDING MOMENTS IN REGULAR WAVES BY MODELS OF SHIP HULLS WITH VARIABLE LOAD DISTRIBUTIONS
SSC-155 N64-18875 11-11

DATA REDUCTION OF STRESS AND BENDING MOMENTS ON SHIP AT SEA - MATHEMATICAL MODEL
PB-181557 N64-19608 12-33

UNCONSTRAINED LAYER DAMPING TREATMENTS ON VIBRATING PLATES - EFFECT OF CONCENTRATED TREATMENT IN REGIONS OF HIGHEST BENDING MOMENT
ML-TDR-64-51 N64-33911 24-33

BENDING VIBRATION
STABILITY OF SPACE VEHICLE IN BENDING OSCILLATIONS FOR CONTROL SENSORS
NASA-TM-X-51081 N64-10106 01-30

BENDING VIBRATION OF CIRCULAR CYLINDRICAL SHELL WITH INTERNAL LIQUID HAVING FREE SURFACE
N64-10305 01-33

ROTARY INERTIA & SHEAR FORCE EFFECT ON FREE BENDING VIBRATIONS OF ROTATING BARS
FTD-TT-62-1477/1&2 N64-12376 03-33

FLIGHT EVALUATION OF VEHICLE BENDING DATA FOR SATURN I LAUNCH VEHICLE - STRUCTURAL VIBRATION, DYNAMIC RESPONSE
N64-18545 11-30

LIQUID SLOSHING IN COMPARTMENTED PROPELLANT TANKS DUE TO BENDING EXCITATION
NASA-TM-X-51944 N64-28831 20-11

NONLINEAR BENDING VIBRATIONS OF RECTANGULAR AND CIRCULAR PLATES UNDER VARIOUS BOUNDARY CONDITIONS
REPT.-149 N64-31438 23-33

BENZENE
DENSITY DETERMINATION OF THORIUM-URANIUM, THORIUM-PLUTONIUM, CAST THORIUM, & MONOBROMOBENZENE IN GLOVEBOXES
ANL-6671 N64-10394 01-07

HYDROLYSIS & SYNTHESIS OF TETRAZINEDICARBOXYLIC ACID AND BENZALHYDRAZINOOXALIC ACID
RSIC-95 N64-12604 04-07

EFFECTS RELATING ULTRAVIOLET SPECTRUM OF SUBSTITUTED BENZENES AND SPECTROSCOPIC MOMENT
ARL-63-220 N64-12703 04-23

THERMODYNAMIC PROPERTIES OF HEXAFLUOROBENZENE AND TRIETHYLALUMINUM
AD-429092 N64-14814 06-19

LOW FREQUENCY VIBRATIONS OF BENZENE COMPOUNDS STUDIED BY INFRARED SPECTRA
ASD-TDR-63-869 N64-20396 13-23

CHEMICAL REACTIONS OF ORGANIC BORANE AND MERCURY ANTIMONY COMPOUNDS WITH BENZENE
N64-20926 14-08

INFRARED FLUORESCENT CRYSTALS, GROUND STATES OF RUBY CRYSTALS, AND POLYMERIZATION OF ACETYLENE-BENZENE & SILICON CARBIDE
JPRS-24743 N64-23001 16-01

ACETYLENIC-BENZENE SOLUTION POLYMERIZATION USING TRIBORON FLUORIDE AS CATALYST N64-23006 16-07

PERFORMANCE DATA OF BENZENE-TOLUENE ROCKET PROPELLANT WITH NITRIC ACID OXIDIZER
DVL-300 N64-26283 18-13

REACTOR RADIATION EFFECTS ON BENZENE COMPOUND USED AS LUBRICANT IN HIGH-SPEED, HIGH-TEMPERATURE BALL-BEARING RIG
NARF-63-17T N64-29813 21-17

REACTION OF PRIMARY, SECONDARY, AND TERTIARY AMINES WITH CARBOXYLIC ACIDS IN BENZENE
ARDD-3165-1 N64-29923 21-07

BENZILIC ACID
CHOLINOLYTIC ACTIVITY, BASICITY, AND LIPOIDOPHILIC PROPERTIES OF VARIOUS ALKYLAMINO-ETHYL ESTERS OF BENZILIC ACID N64-15385 07-11

BENZOIC ACID
SPECTRAL AND MAGNETO-CHEMICAL STUDIES OF 5-TRIFLUOROMETHYLTETRAZOL COMPLEXES, COPPER COMPLEXES OF SUBSTITUED BENZOIC ACIDS, AND COPPER HALIDE COMPLEX WITH PYRIDINE N-OXIDE SUBSTITUTIONS
SR-9 N64-31093 22-07

BERNOULLI EQUATION
S LINEARIZATION

BERYLLIUM
BERYLLIUM, FLUORINE, AND ALUMINUM NUCLEAR REACTIONS AT 27.5 MEV
URPA-10 N64-10193 01-23

X-RAY ANALYSIS OF SOLUBILITY OF TITANIUM, YTTRIUM, ZIRCONIUM, AND NICKEL IN BERYLLIUM
JPRS-17681 N64-10565 01-18

X-RAY FLUORESCENCE DETERMINATION OF CHLORIDE IN BERYLLIUM METAL
Y-1447 N64-11284 02-07

CORROSION RESISTANCE OF BERYLLIUM AND BERYLLIUM ALLOYS
NMI-1911 N64-12094 03-18

NOMOGRAMS FOR DETERMINING PERMISSIBLE DOSAGE OF FAST NEUTRONS FROM POLONIUM AND BERYLLIUM SOURCES
ELECTROMAGNETIC PROPAGATION WITH ACOUSTIC VIBRATIONS IN MAGNETOSPHERE
FTD-TT-63-862/1&2 N64-12618 04-23

ULTRASONIC WELDING OF BERYLLIUM FOIL TO STAINLESS STEEL
NASA-TM-X-935 N64-12956 04-17

CHEMICALLY MILLED WAFFLE GRID BERYLLIUM STRUCTURAL PANEL FOR AEROSPACE APPLICATION
ERR-FW-135 N64-13119 04-18

PION-PRODUCTION RATE IN HYDROGEN AND BERYLLIUM
SLAC-21 N64-13380 04-23

X-RAY PHOTOGRAPHIC STUDY OF BERYLLIUM SINGLE CRYSTAL COMPRESSION AND DEFORMATION AFTER ZONE RECRYSTALLIZATION N64-13738 05-18

ZONE MELTING METHOD FOR DISTILLATION OF BERYLLIUM FROM BERYLLIUM OXIDE
I-82122-1 N64-13851 05-18

SYNTHESIS OF HIGH PURITY BERYLLIUM AND ITS DEFORMATION AND FRACTURE CHARACTERISTICS
Q-82089-3 N64-13973 05-18

DEFORMATION PROCEDURES USED ON HIGH PURITY POWDER IN FABRICATION OF BERYLLIUM SHEET - DEVELOPMENT OF TEST PROCEDURES
I-82106-1 N64-13974 05-18

NEW FUEL ELEMENT COMPOSITIONS, ALUMINUM ALLOY TESTING AT HIGH TEMPERATURES, AND DAMAGE THRESHOLD INVESTIGATION FOR BERYLLIUM
IDO-16934 N64-14077 05-23

BERYLLIUM DEVELOPMENT - FUSION BY ELECTRON BOMBARDMENT, ELECTRON-BEAM WELDING, JOINING WITH MAGNETIC FORCE WELDER, AND HONING & LAPPING
AD-429091 N64-14984 06-18

MASS SPECTROGRAPHY AND OTHER METHODS OF DETECTION

AND QUANTITATIVE ANALYSIS OF MINUTE IMPURITIES IN BERYLLIUM
AD-410234 N64-14969 06-07

NEUTRINOS FROM PIONS AND KAONS PRODUCED BY PROTONS HITTING BERYLLIUM TARGET N64-15504 07-23

MATERIAL TESTING FOR ABLATION SHIELD - BERYLLIUM PRODUCTION FOR ADHESIVE BONDING
A471 N64-16879 08-13

APPLICATION OF HARTREE-FOCK SECOND ORDER DISTURBANCES CALCULATION FOR BERYLLIUM SYSTEMS N64-17012 09-23

COMBUSTION OF BERYLLIUM AND ALUMINUM PARTICLES
ARC-8-P N64-17285 09-26

MONTE CARLO ANALYSIS OF NEUTRON SCATTERING FROM SMALL VOLUME OF CARBON, BERYLLIUM, ALUMINUM, IRON, AND POLYETHYLENE
NAA-SR-9418 N64-17290 09-23

EMISSION SPECTRA OF ALUMINUM AND BERYLLIUM FLUORIDES
IITRI-C6013-3 N64-17475 09-23

CONTROL OF BERYLLIUM DURING PRODUCTION AND TESTING OF HIGH ENERGY PROPELLANTS CONTAINING BERYLLIUM - INDUSTRIAL SAFETY
RPL-TDR-64-10, VOL. 2 N64-18013 10-17

VARIATION EFFECT OF BERYLLIUM CONCENTRATION ON MECHANICAL STRENGTH OF 356-T6-TYPE ALUMINUM ALLOY
SM-44658 N64-18713 11-18

METALLURGY OF BERYLLIUM IN AEROSPACE TECHNOLOGY N64-19046 11-18

SHEAR STRAIN TESTING OF CHEMICALLY MILLED BERYLLIUM WAFFLE PANEL
FTDH-3068 N64-20050 13-18

TENSILE PROPERTIES OF BERYLLIUM FOR STRUCTURAL MATERIAL
AD-435098 N64-20288 13-18

STRAIN CHARACTERISTICS OF BERYLLIUM & REFRACTORY METALS
AD-428949 N64-20392 13-18

MECHANICAL AND PHYSICAL PROPERTIES OF DISPERSIONS OF BERYLLIUM PARTICLES IN DUCTILE ALUMINUM MATRIX
AD-440083 N64-20563 13-18

ANNOTATED BIBLIOGRAPHY ON THERMODYNAMICS OF BERYLLIUM AND ITS REFRACTORY COMPOUNDS - OXIDES, CARBIDES, & NITRIDES
SB-63-16 N64-20893 14-13

FABRICATION OF BERYLLIUM-CLAD TUBULAR HYPERVELOCITY IMPACT TARGETS BY GAS PRESSURE BONDING
NASA-CR-54058 N64-21008 14-17

INTEGRAL CROSS-SECTION OF ATOM OF IRRADIATED BERYLLIUM AND BERYLLIUM OXIDE SPECIMENS
PWAC-433 N64-21036 14-23

NEUTRON THERMALIZATION, BERYLLIUM SCATTERING, AND FAST NEUTRON SHIELDING RESEARCH
GA-4659 N64-22250 15-23

BERYLLIUM TOXICOLOGY, SYMPTOMATOLOGY OF AFFECTIONS, AND INDUSTRIAL HYGIENE FOR BERYLLIUM PRODUCTION
FTD-TT-63-578/1&2 N64-22352 15-16

MECHANICAL PROPERTIES OF SINTERED BERYLLIUM WITH LOW EMISSIVITY GOLD COATING
A738 N64-22583 15-18

PREPARATION OF HIGH PURITY BERYLLIUM METAL BY DISTILLATION PROCESS
AD-440233 N64-22958 16-18

PERTURBATION THEORY IN ATOMIC AND MOLECULAR QUANTUM MECHANICS - BERYLLIUM ATOM SHIELDING FACTORS AND POLARIZABILITIES
NASA-CR-56513 N64-24036 16-23

ANALYTICAL DETERMINATION OF RESIDUAL GAS IN BERYLLIUM
IR-1 N64-24504 17-07

HIGH STRENGTH BERYLLIUM FINE WIRE
TR-351-243 N64-24505 17-18

CHEMICAL MILLING OF BERYLLIUM WIRE INTO ULTRAFINE SIZES
NAEC-AML-1909 N64-25623 17-18

BERYLLIUM - ANNOTATED BIBLIOGRAPHY
SB-63-54 N64-25666 17-18

DEFORMATION CHARACTERISTICS OF BERYLLIUM AND REFRACTORY METALS
QPR-31 N64-25899 18-18

FABRICATION TECHNIQUES, METHODS & PROCESSES FOR PRODUCING TYPICAL AIRCRAFT SHAPES FROM BERYLLIUM
NMI-9701.15 N64-26313 18-17

ELECTROREFINING OF BERYLLIUM CHIPS IN PROTOTYPE CELL
BM-RI-6489 N64-26463 18-18

CORROSION OF BERYLLIUM BY HIGH TEMPERATURE AIR - SYSTEM FOR NUCLEAR AUXILIARY POWER-8 /SNAP-8/ GROUND TEST
NAA-SR-9672 N64-26799 18-18

METALLURGICAL TECHNOLOGY OF BRAZING AND WELDING OF BERYLLIUM
NASA-TT-F-9021 N64-27230 19-18

IMPROVEMENT OF ELECTRONIC WAVE FUNCTION FOR DIATOMIC BERYLLIUM BY CONFIGURATION INTERACTION N64-27295 19-23

EFFECT OF NUCLEATION OF SLIP SURFACE ON FLOW AND FRACTURE OF BERYLLIUM
NASA-CR-56314 N64-27393 19-18

NEUTRON AND REACTION CROSS SECTIONS, NEUTRON ACTIVATION ANALYSIS OF VARIOUS ELEMENTS, AND CARBON AND NITROGEN SURFACE CONTAMINATION OF BERYLLIUM SAMPLES
ASD-TDR-62-1038, PT. 3, VOL. I N64-27917 20-07

BERYLLIUM - SURFACE TREATMENT AND COATINGS
BBC-TR-329 N64-28000 20-18

PREVENTION OF BERYLLIUM METAL CORROSION BY HIGH TEMPERATURE WATER
BBC-TR-335 N64-28002 20-18

PRODUCTION OF COMPOSITES OF BERYLLIUM ON STAINLESS STEEL AND NIOBIUM TUBING FOR IMPACT TARGETS IN METEOROID COLLISION SIMULATION TESTS
NASA-CR-54144 N64-28440 20-18

DEFORMATION AND DESTRUCTION OF ROLLED BERYLLIUM OF DIFFERENT PURITIES
JPRS-26301 N64-28777 20-18

CONFIGURATION INTERACTION EFFECTS ON ENERGY OF GROUND STATE OF BERYLLIUM ISOELECTRONIC SERIES
T-R-405 N64-28798 20-23

METALLURGICAL FACTORS CONTROLLING DUCTILE-BRITTLE PROPERTY OF BERYLLIUM
ASD-TDR-62-509, VOL. V N64-29972 21-18

MANUFACTURING PROCESS TO PRODUCE HIGH STRENGTH BERYLLIUM WIRE
TR-360-243 N64-30818 22-18

ELECTRON BEAM BRAZING OF BERYLLIUM USING VARIOUS FILLER METALS
NAEC-AML-1997 N64-31095 22-18

TENSILE TESTING, FLUID-TO-FLUID EXTRUSION, AND COLD DEFORMATION OF BERYLLIUM AND TUNGSTEN
EPR-1 N64-32652 23-18

BERYLLIUM COATED PLASTIC FILMS AS X-RAY SENSORY WINDOWS ON TANDEM DETECTION SATELLITES

NLM-1194 N64-32880 24-17

TRANSMISSION ELECTRON MICROSCOPE STUDY OF DISLOCATED CRYSTAL ARRANGEMENTS IN FATIGUED BERYLLIUM
NASA-CR-59031 N64-32894 24-18

COLLISIONS IN GASES, MAGNETIC SUSCEPTIBILITY OF BERYLLIUM, REACTIONS OF ALLYLIC ALCOHOLS, ACTIVITY COEFFICIENTS, BIOLOGICAL EFFECTS OF RADIATION, AND ECOLOGY OF DRAINAGE AREA
NASA-CR-58839 N64-33048 24-07

DISLOCATION SUBSTRUCTURE IN HIGH PURITY BERYLLIUM DURING CYCLIC STRESSING
NASA-CR-58979 N64-33191 24-18

BRITTLE BEHAVIOR OF BERYLLIUM OBSERVED WITH TRANSMISSION ELECTRON MICROSCOPE
ASD-TDR-62-509, VOL. IV N64-33269 24-18

PREPARATION OF HIGH PURITY BERYLLIUM BY DOUBLE VACUUM DISTILLATION
ASD-TDR-62-509, VOL. III N64-33908 24-18

REACTIONS OF BERYLLIUM WITH ALUMINUM, NITROGEN, BORON, AND PHOSPHORUS
NAVWEPS-8204 N64-34003 24-18

DIFFUSION BONDING OF STAINLESS STEEL WIRE MESH REINFORCEMENT TO BERYLLIUM TUBE FOR HYPERVELOCITY IMPACT TARGET
NASA-CR-54222 N64-34010 24-17

BERYLLIUM ALLOY
CORROSION RESISTANCE OF BERYLLIUM AND BERYLLIUM ALLOYS
NMI-1911 N64-12094 03-18

ACCELERATION & RETARDATION OF DELAYED FAILURE IN BERYLLIUM-COPPER WETTED WITH MERCURY
IITRI-B183-15 N64-14358 06-18

BERYLLIUM-RICH BINARY SYSTEMS
REPT.-2-53-64-1 N64-15359 07-19

WELDING AND BRAZING OF BERYLLIUM AND ITS ALLOYS - BIBLIOGRAPHY
SB-63-61 N64-20547 13-18

BERYLLIUM COMPOUND
THERMODYNAMIC PROPERTIES OF BERYLLIUM CHLORIDE ROCKET COMBUSTION PRODUCTS
U-2352 N64-12240 03-26

ELECTROCHEMISTRY OF NONAQUEOUS BATTERY OPERATION, BATTERY DEVELOPMENT PLANS, AQUEOUS AND NONAQUEOUS ANODIZING, AND BERYLLIUM DIALKYL SALT PREPARATION
NASA-CR-55015 N64-13002 04-06

THERMODYNAMIC PROPERTIES OF BERYLLIUM COMPOUNDS
AD-427694 N64-13886 05-27

PRESSURE COMPOSITION MEASUREMENTS AND PHASE DIAGRAM FOR BERYLLIUM-BORON-OXYGEN & ALUMINUM-BORON-OXYGEN SYSTEMS
QR-5 N64-14171 06-19

ANODIC BEHAVIOR OF ZINC, MERCURY, AND SILVER IN SELECTED AQUEOUS MEDIA - SYNTHESIS OF BERYLLIUM DI-ALKYLS
NASA-CR-55568 N64-15549 07-06

EMISSION SPECTRA OF ALUMINUM AND BERYLLIUM FLUORIDES
IITRI-C6013-3 N64-17475 09-23

THERMODYNAMIC PROPERTIES AND FORMATION HEATS OF BERYLLIUM COMPOUNDS FOUND IN ROCKET EXHAUST
U-2485 N64-18177 10-26

THERMODYNAMIC PROPERTIES OF BERYLLIUM COMPOUNDS N64-18811 11-13

ENTHALPY AND HEAT CAPACITY DATA ON CRYSTALLINE AND LIQUID BERYLLIUM FLUORIDE N64-18812 11-13

TRANSPIRATION, EFFUSION, AND MOLECULAR FLOW STUDIES OF THERMODYNAMIC PROPERTIES OF BERYLLIUM COMPOUNDS N64-18813 11-13

CHARACTERISTICS OF ZIRCONIUM, NIOBIUM, & TANTALUM BERYLIDES AS THERMIONIC EMITTERS
DRI-2137 N64-19975 12-06

THERMODYNAMIC PROPERTIES OF ALUMINUM-BORON-OXYGEN AND BERYLLIUM-BORON-OXYGEN SYSTEMS
QR-7 N64-22708 15-07

THERMODYNAMICS OF ALUMINUM-BORON-OXYGEN AND BERYLLIUM-BORON-OXYGEN SYSTEMS
QR-8 N64-27606 19-13

THERMODYNAMICS OF ALUMINUM-BORON-OXYGEN AND BERYLLIUM-BORON-OXYGEN SYSTEMS
QR-5 N64-27607 19-13

BERYLLIUM OXIDE
RADIATION EFFECT IN BERYLLIUM OXIDE, GAS DIFFUSION IN UNFUELED CERAMICS, CERAMIC FUEL CONVERSION, AND REFRACTORY-METAL FUEL SYSTEMS
GEMP-28A N64-11291 02-19

CHARACTERISTICS OF BERYLLIUM OXIDE FOR NUCLEAR PROPULSION - REACTOR MATERIAL & FUEL COMPONENT
UCRL-7428 N64-12041 03-19

ZONE MELTING METHOD FOR DISTILLATION OF BERYLLIUM FROM BERYLLIUM OXIDE
I-82122-1 N64-13851 05-18

DIFFUSION OF BERYLLIUM-7 THROUGH POLYCRYSTALLINE UNIRRADIATED COLD-PRESSED AND SINTERED BERYLLIUM OXIDE
ORNL-3526 N64-14201 06-26

RAPID OXYGEN DIFFUSION IN BERYLLIUM OXIDE
NAA-SR-7637 N64-15150 07-25

MASS PRODUCTION ENGINEERING OF BERYLLIUM OXIDE POWDER
AD-430303 N64-16338 08-07

EXPANSION STUDY OF BERYLLIUM OXIDE DUE TO IRRADIATION N64-16998 09-23

BERYLLIUM OXIDE SINGLE CRYSTALS FOR MICRO-ELECTRONICS
NASA-CR-55913 N64-17669 09-19

VAPOR PRESSURE OVER OXIDE SYSTEMS OF ALUMINUM, BORON, BERYLLIUM, AND LITHIUM MEASURED AS FUNCTION OF COMPOSITION N64-18820 11-13

RADIATION, GAS DIFFUSION, AND FISSION PRODUCT RESEARCH ON BERYLLIUM OXIDE, CERAMICS, AND REFRACTORY METALS
GEMP-34A N64-19016 11-23

GROWTH OF SINGLE CRYSTAL BERYLLIUM OXIDE FOR USE AS SUBSTRATE IN MICROELECTRONIC DEVICES
NASA-CR-56190 N64-20815 14-19

FABRICATION OF ELECTRONIC PARTS FROM BERYLLIUM OXIDE POWDER AND DETERMINATION OF PHYSICAL PROPERTIES OF TEST PIECES
AD-600126 N64-21027 14-19

HIGH TEMPERATURE TESTING OF ALUMINUM AND BERYLLIUM OXIDE SENSORS IN NONOXIDIZING ATMOSPHERES
GEMP-82 N64-22055 15-15

BERYLLIUM OXIDE CERAMICS AND OTHER CERMETS
FTD-TT-62-1664/1&2 N64-23406 16-19

HEAT RESISTANCE, NUCLEAR PROPERTIES, AND THERMAL IMPACT RESISTANCE OF BERYLLIUM OXIDE
FTD-TT-62-1712/1&2 N64-23407 16-19

X-RAY DIFFRACTION ANALYSIS OF CHRYSOBERYL /ALUMINUM-BERYLLIUM OXIDE/ CRYSTAL STRUCTURE, SYNTHESIS, AND MAGNETIC PROPERTIES
TR-183 N64-26841 18-25

MULTIGROUP CROSS SECTIONS FOR BERYLLIUM OXIDE AND GRAPHITE-MODERATED SYSTEMS
UCRL-7827 N64-27035 19-23

PERMEATION OF FOSSIL FUEL COMBUSTION GAS DETERMINED FOR ALUMINUM OXIDE, BERYLLIUM OXIDE, AND SILICON CARBIDE SAMPLES USING PROTOTYPE BURNER - THERMIONIC CONVERTERS
QTR-3 N64-28078 20-06

FUEL ELEMENT FABRICATION - FISSIONABLE MATERIAL PARTICLES VAPOR-COATED WITH ALUMINUM OR BERYLLIUM OXIDE AND DISPERSED IN CERAMIC MATRIX
BMI-1675 N64-28124 20-18

INTERNAL CONVERSION CERAMIC FUEL ELEMENTS, FISSION GAS DIFFUSION IN CERAMICS, FISSION PRODUCTS IN REFRACTORY-METAL FUEL SYSTEMS, AND RADIATION IN BERYLLIUM OXIDE
GEMP-38 A N64-28251 20-18

SINGLE CRYSTAL GROWTH, AND DETERMINATION OF THERMAL AND DIELECTRIC PROPERTIES OF BERYLLIUM OXIDE FOR USE IN MICROELECTRONICS
NASA-CR-58527 N64-28843 20-25

VAPOR PRESSURE & EVAPORATION COEFFICIENTS OF STANNIC, ZINC, & BERYLLIUM OXIDE
UCRL-7521 N64-29891 21-07

PRODUCTION ENGINEERING MEASURE FOR BERYLLIUM OXIDE POWDER
QPR-3 N64-30961 22-17

BERYLLIUM-7
DIFFUSION OF BERYLLIUM-7 THROUGH POLYCRYSTALLINE UNIRRADIATED COLD-PRESSED AND SINTERED BERYLLIUM OXIDE
ORNL-3526 N64-14201 06-26

BESSEL FUNCTION
INDEFINITE INTEGRALS INVOLVING PRODUCTS OF EXPONENTIAL BESSEL FUNCTIONS
AFCRL-63-513 N64-12857 04-20

BACKWARD RECURRENCE METHOD FOR COMPUTING REGULAR BESSEL FUNCTION
NASA-TN-D-2141 N64-17724 09-20

COMPUTER EVALUATION OF INFINITE INTEGRALS OF CIRCULAR CYLINDRICAL SURFACE WITH BESSEL FUNCTIONS
DTMB-1580 N64-20341 13-20

SERIES EXPANSION FOR MODIFIED BESSEL FUNCTION AND APPLICATION TO DETECTION THEORY
P-2055-1 N64-21217 14-20

BESSEL FUNCTION CALCULATION USING LAGUERRE POLYNOMIAL EXPANSION
AMRA-TR-64-06 N64-22960 16-20

GROUP-TIME DELAY AMPLIFIER
BI-025 N64-26566 18-09

EXPANSIONS OF INTEGRALS OF BESSEL FUNCTIONS OF LARGE ORDER N64-27795 19-20

COMPUTING PROGRAMS FOR COMPLEX BESSEL FUNCTION
NWL-1906 N64-29285 21-20

BESSEL FUNCTION TABLES APPLIED TO PROBLEMS OF ANNULAR THIN PLATES AND WAVE PROPAGATION
AD-602755 N64-30824 22-20

BETA RADIATION
FORMULATION OF ENAMEL FOR PLANAR BETA RADIATION SOURCES
RAI-202 N64-10013 01-23

NEUTRON ACTIVATION ANALYSIS OF RARE EARTH ELEMENTS BETA DECAY, GAMMA RAY SPECTROSCOPY, & ION EXCHANGE SEPARATION
JPRS-18861 N64-10645 01-18

CORRECTION FACTORS AFFECTING EVALUATION OF TOTAL BETA RADIOACTIVITY OF FISSION PRODUCTS
EUR-624.F N64-13142 04-23

TIME DEPENDENCE OF BETA DECAY, AVERAGE DISINTEGRATION ENERGY, & POST-BETA DECAY GAMMA EMISSION
LA-2811, ADDENDUM N64-14151 05-23

TIME DEPENDENCE OF BETA DECAY, AVERAGE DISINTEGRATION ENERGY, & POST-BETA DECAY GAMMA EMISSION
LA-2811, ADDENDUM N64-14151 05-23

RAPID ANALYSIS FOR CESIUM-137 IN RADIOACTIVE FALLOUT BY USING AMMONIUM PHOSPHOMOLYBDATE AND BETA RADIATION MEASUREMENT
EUR-438.F N64-14760 06-23

INTENSITY OF BETA RADIATION AT FUEL ELEMENT SURFACE SOLVED USING BETA ENERGY LEVEL EMISSION FROM FISSION PRODUCTS
HW-79814 N64-17497 09-23

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UCRL-11169 N64-18985 11-23

ELECTRON-SLOWING-DOWN FLUX SPECTRUM OF LOW ENERGY BETA RAYS FROM COPPER 64 IN COPPER
ORNL-3463 N64-21017 14-23

ASEPTIC INFLAMMATION OF CORNEA UNDER INFLUENCE OF BETA RADIATION FROM RADIOACTIVE THALLIUM
JPRS-24936 N64-21285 14-16

RE-EVALUATION OF OPTIMAL PARAMETERS FOR POST-FISSION BETA DECAY
LA-2811, ADDENDUM II N64-23258 16-23

INTEGRALS OF BETA SPECTRA
LA-3066 N64-23267 16-23

METEOROLOGICAL MONITORING OF RADIOACTIVE BETA-GAMMA RADIATION
LAMS-3071 N64-24946 17-23

IRON DOUBLE-FOCUSING BETA-RAY SPECTROMETER
BNL-850/T-336/ N64-25548 17-15

ENERGY AND TIME BETA-RAY SPECTRA FROM FISSION OF URANIUM AND PLUTONIUM N64-28217 20-23

RADIATION SAMPLING OF ALPHA, BETA, AND GAMMA PARTICLES IN AIR, WATER, AND MELTED SNOW TO DETERMINE RADIATION HAZARD
NDL-TR-63 N64-32872 24-21

EXAMINATION OF DECAY CHARACTERISTICS OF STRONTIUM BY GAMMA RAY SCINTILLATION SPECTROMETRY AND BETA RAY PROPORTIONAL COUNTING
USNRDL-TR-733 N64-33523 24-23

BETATRON
CF PARTICLE ACCELERATOR
SOVIET BETATRON PRODUCING 25-MEV X-RAYS
JPRS-18505 N64-10771 02-23

EFFECT OF BETATRON OSCILLATIONS ON THE LONGITUDINAL STABILITY OF A COASTING BEAM
UCRL-6794 N64-11579 03-23

SYNCHRONOUS PARTICLE INJECTION AND STORAGE RING CAUSING RESONANCE IN RADIAL OSCILLATIONS OF BETATRON
LNF-63/74 N64-14450 06-23

BETATRON, CONVERTER CAMERA, LASER INTERFEROMETER, AND SHOCK TUBE FACILITY FOR PLASMA PARTICLE ACCELERATION STUDY
AFCRL-64-412 N64-21709 15-24

COLLECTIVE ELECTROSTATIC EFFECTS IN PLASMA

BETATRON
SIT-114 N64-21823 15-24

BETHE-SALPETER EQUATION
S WAVE FUNCTION

BEVATRON
CF PARTICLE ACCELERATOR
BEVATRON OPERATION AND DEVELOPMENT
UCRL-10626 N64-16424 08-23

BEVATRON OPERATION AND DEVELOPMENT
UCRL-11279 N64-23263 16-23

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NASA-RP-47 N64-10132 01-12

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N64-10147 01-14

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IAS-PAPER-63-86-REV. N64-10168 01-22

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RB-63-3 N64-10220 01-27

ABSTRACT INDEX FOR NONMETALLICS RESEARCH AND DEVELOPMENT PROGRAM
ASCRE-TM-62-24 N64-10250 01-19

REACTOR UTILIZATION AND ABSTRACTS OF CHEMISTRY, ENGINEERING, METALLURGY, AND PHYSICS RESEARCH
IS-700 N64-10257 01-01

THERMOLUMINESCENCE BIBLIOGRAPHY
TID-3911/REV. 1/ N64-10313 01-25

BIBLIOGRAPHY ON HIGH TEMPERATURE CHEMISTRY AND PHYSICS OF GASES AND GAS-CONDENSED PHASE REACTIONS
N64-10319 01-07

ANNOTATED BIBLIOGRAPHY FOR NEAR-FIELD PATTERN MEASUREMENTS OF ELECTROMAGNETIC RADIATION
SB-63-38 N64-10322 01-08

BIBLIOGRAPHY OF POLISH MATHEMATICAL PAPERS
OTS-61-11300 N64-10367 01-20

SUPERCONDUCTIVITY - BIBLIOGRAPHY
LMSC-6-90-63-43 N64-10405 01-25

ANNOTATED BIBLIOGRAPHY ON GEOLOGICAL SCIENCES AND GEOPHYSICS
N64-10414 01-12

BIBLIOGRAPHY ON SATELLITE IDENTIFICATION
LB-BIB-63-5 N64-10418 01-32

ANNOTATED BIBLIOGRAPHY OF TRANSLATIONS OF FOREIGN LANGUAGE ARTICLES ON NYSTAGMUS, VESTIBULAR STIMULATION, & CORIOLIS EFFECTS
N64-10432 01-14

RADIATION DAMAGE TO OVARIES, AND ELECTRICAL STIMULATION OF HEART IN MICE - BIBLIOGRAPHY
JPRS-18045 N64-10453 01-16

BIBLIOGRAPHY - SHOCK, VIBRATION, & DAMPING IN PACKAGING
TDCK-28650 N64-10462 01-33

LITERATURE REVIEW OF TELEVISION MICROSCOPY IN BIOLOGY AND MEDICINE
JPRS-18229 N64-10501 01-16

TURBULENT FLOW, WEATHER FORECASTING, FOG BOUNDARY LAYERS, RAIN INTENSITY CALIBRATION OF RADAR, HIGH SPEED TURBULENCE, & BIBLIOGRAPHY ON METEOROLOGY
JPRS-18141 N64-10570 01-21

BIBLIOGRAPHY - AERONAUTICS & SPACE SCIENCES FOR SECONDARY GRADES
NASA-EP-2 N64-10604 01-29

BIBLIOGRAPHY - SPACE & ASTRONOMY
NASA-EP-3 N64-10605 01-29

ABSTRACTS OF CURRENT MEDICAL RESEARCH
N64-10621 01-16

BIBLIOGRAPHY ON EPITAXIAL GROWTH OF SEMICONDUCTOR MATERIALS
LS-BIB-63-3 N64-10622 01-09

BIBLIOGRAPHY OF ASTRONAUTICS PUBLICATIONS
JPL-BIBL-39-4 N64-10624 01-01

CORROSION AND PROTECTION OF MATERIALS - BIBLIOGRAPHIC INDEX
JPRS-18939 N64-10808 02-19

WATER TEMPERATURE DISTRIBUTION, TEMPERATURE ANOMALY EFFECT ON ARCTIC ICE COVER, BAROCLINIC DEPTH, METEOROLOGY & HYDROLOGY BIBLIOGRAPHY
JPRS-20398 N64-10843 02-21

ALTERNATING CURRENT ELECTRIC POWER TRANSMISSION LINES FOR LONG DISTANCES - BIBLIOGRAPHY
OTS-63-21222 N64-11006 02-06

BIBLIOGRAPHY ON LIQUID METALS
TID-3544/REV. I/ N64-11288 02-18

BIBLIOGRAPHY - REFRACTORY INORGANIC COATINGS FOR TEMPERATURES OVER 2500-DEG C
NASA-TM-X-51209 N64-11338 02-33

ELECTRICAL RESISTANCE STRAIN GAUGES - BIBLIOGRAPHY
ARL/SM-4 N64-11407 02-15

BIBLIOGRAPHY OF NAVIGATION, GUIDANCE, CONTROL, AND SPACECRAFT REENTRY
LR-17100 N64-11412 02-22

ABSTRACTS FOR PAPERS ON GEOPHYSICS
JPRS-20051 N64-11431 02-12

UPPER ATMOSPHERIC PHENOMENA - BIBLIOGRAPHY OF SOVIET LITERATURE
AID-P-63-116 N64-11447 03-12

ANNOTATED BIBLIOGRAPHY OF RADIO FREQUENCY INTERFERENCE TESTING
SB-63-48 N64-11540 03-08

RADIOBIOLOGICAL PROBLEMS DUE TO COSMIC RADIATION EXPOSURE DURING SPACE FLIGHT - BIBLIOGRAPHY
N64-11668 03-16

HYPOTHERMIA & ARTIFICIAL HIBERNATION FOR SPACE TRAVEL - ANNOTATED BIBLIOGRAPHY
SID-63-354 N64-11821 03-16

BIBLIOGRAPHY OF BOILING LIGHT WATER, GAS COOLED, LIQUID METAL, AND PRESSURIZED LIGHT WATER REACTORS
HW-66666, REV. 2 N64-11947 03-10

ABNORMAL GRAIN GROWTH IN ALUMINUM & ALUMINUM ALLOYS - BIBLIOGRAPHY
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X-RAY STUDY OF ORDER-DISORDER IN ALLOYS - BIBLIOGRAPHY
AD-422006 N64-12035 03-25

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AID-P-63-118 N64-12078 03-07

BIBLIOGRAPHY - ATMOSPHERIC ASPECTS OF RADIO ASTRONOMY
NBS-TN-171 N64-12165 03-08

ANNOTATED BIBLIOGRAPHY ON STRUCTURAL STABILITY OF TOROIDAL SHELLS
SB-63-50 N64-12382 03-23

LITERATURE SURVEY - USE OF UNICELLULAR ALGAE FOR HUMAN NUTRITION N64-12443 04-16

ELECTROMAGNETIC PULSE RESULTING FROM NUCLEAR DETONATIONS - BIBLIOGRAPHY
DASA-618 N64-12579 04-23

ANNOTATED BIBLIOGRAPHY - NONLINEAR FIELD THEORY
AID-B-63-115 N64-12596 04-23

GAS, LIQUID, & CHEMICAL SOURCES OF HYDROGEN FOR USE WITH FUEL CELL BATTERIES - BIBLIOGRAPHY
TR-1168 N64-12661 04-19

ANNOTATED BIBLIOGRAPHY OF DIFFUSION BONDING AND HOT PRESSURE WELDING
SB-63-44 N64-12673 04-18

ANNOTATED BIBLIOGRAPHY OF AUXILIARY POWER SYSTEMS FOR SPACECRAFT - SOLAR AND NUCLEAR AUXILIARY POWER SOURCES
SB-63-46 N64-12674 04-06

BIBLIOGRAPHY ON HIGH TEMPERATURE CHEMISTRY AND PHYSICS OF MATERIALS IN CONDENSED STATE N64-12675 04-13

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WADD-TR-61-67, VOL. 1, REV. 1 N64-12704 04-15

ABSTRACTS OF ATOMIC ENERGY COMMISSION-SPONSORED BIOLOGICAL AND MEDICAL RESEARCH
TID-4201 N64-12811 04-16

FALLOUT DATA AND INTERPRETIVE NOTES - BIBLIOGRAPHY
HASL-132 N64-12908 04-16

WELDABLE HIGH-STRENGTH ALUMINUM ALLOYS - LITERATURE REVIEW AND BIBLIOGRAPHY
NASA-CR-52372 N64-13067 04-18

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SB-63-15 N64-13075 04-09

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BNL-806/AS-17/ N64-13289 04-01

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SB-63-20 N64-13305 04-16

ANNOTATED BIBLIOGRAPHY - MECHANICS OF HEAT PUMPS AND ABSORPTION REFRIGERATION FOR SPACECRAFT
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BIBLIOGRAPHY - PREPARATION & PROPERTIES OF PLUTONIUM CARBIDE
MLM-1169 N64-13390 04-19

LITERATURE SURVEY & BIBLIOGRAPHY OF HIGH VOLTAGE BREAKDOWN IN VACUUM AND IN OIL - APPLICATION TO HIGH POWER VACUUM TUBES
BMI-197-12-1 N64-13602 05-19

BIBLIOGRAPHY ON AUTOMATA, LOGIC & COMPUTATION, NEUROPHYSIOLOGY, AND SWITCHING IN THEORETICAL DEVICES
AFCRL-63-515 N64-13622 05-20

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MATHEMATICAL ANALYSIS OF STRESSES IN COMPOSITE MATERIALS - BIBLIOGRAPHY
S-42 N64-14023 05-34

SEPARATION REFERENCES FOR VARIOUS TYPES OF TWO-PHASE GAS-LIQUID FLOW
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INORGANIC INSULATION - BIBLIOGRAPHY N64-14192 06-19

SPACE FLIGHT IN METEORIC ENVIRONMENT - BIBLIOGRAPHY
CARDE-TM-720/63 N64-14249 06-29

ANNOTATED BIBLIOGRAPHY ON METEOROLOGICAL SATELLITES AND WEATHER FORECASTING N64-14260 06-32

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NASA-TM-X-50409 N64-14274 06-30

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JPRS-23440 N64-15829 07-16

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NASA-CR-55660 N64-15903 07-01

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AID-P-63-121 N64-15949 07-27

BIBLIOGRAPHY OF LASER TECHNOLOGY
SB-63-23 N64-15978 07-25

BIBLIOGRAPHY OF IRON ELECTROPLATING AND PRODUCTION METHODS FOR DEPOSITION OF IRON LAYERS
SB-63-55 N64-15979 07-18

BIBLIOGRAPHY - FUSION WELDING OF ALUMINUM
SB-63-56 N64-15980 07-17

BIBLIOGRAPHY OF WIND WAVES AND SEA SLOPE MEASUREMENT
SRB-63-4 N64-15981 07-12

BIBLIOGRAPHY OF BIOREGENERATING SYSTEMS FOR EXTRATERRESTRIAL HABITATION
AMRL-TDR-63-121 N64-16095 07-16

UPPER ATMOSPHERIC PHENOMENA - BIBLIOGRAPHY
AID-P-64-10 N64-16099 07-12

BIBLIOGRAPHY ON HIGH TEMPERATURE CHEMICAL REACTIONS
REPT.-10 N64-16555 08-07

BIBLIOGRAPHY OF CHARACTERISTICS OF PARTICLES & PARTICLE ASSEMBLIES N64-16582 08-19

BIBLIOGRAPHY OF CERAMIC FORMING PROCESSES N64-16583 08-17

VIBRATION ENVIRONMENT, HUMAN TOLERANCE TO EXTREME VIBRATIONAL STRESS, & EFFECT OF VIBRATION ON OPERATOR PERFORMANCE - ABSTRACTS N64-16674 08-16

BIBLIOGRAPHY OF USSR LITERATURE ON RADIO ASTRONOMY ANTENNAS AND RADIO ASTRONOMY DATA PROCESSING
AID-B-64-11 N64-16779 08-05

BIBLIOGRAPHY ON MASERS AND LASERS
TC-230-81 N64-16962 09-25

BIBLIOGRAPHY OF AERODYNAMICS, INSTALLATIONS, HEAT TRANSFER, THERMODYNAMICS, AND ELECTRONICS RESEARCH FOR WEAPONS SYSTEM 107A-1
GDA-ACH64-002 N64-16985 09-30

BIBLIOGRAPHY OF CORROSION AND MOISTURE PROBLEMS IN AEROSPACE INDUSTRY
SID-64-11 N64-17276 09-18

BIBLIOGRAPHY OF PROBLEMS IN FIELD OF STRUCTURE-BORNE NOISE
AGM-109 N64-17277 09-23

BIBLIOGRAPHY - METEOROID HAZARD TO SPACE VEHICLES IN NEAR EARTH ENVIRONMENT
SB-63-58 N64-17331 09-05

BIBLIOGRAPHY - PLANNING, MANAGEMENT, OPERATIONS, AND SAFETY OF AIRPORTS AND HELIPORTS N64-17490 09-10

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LINEAR ION ACCELERATORS - BIBLIOGRAPHY
AEC-TR-6229 N64-17529 09-23

COMPLETE LIST OF RAE TRANSLATIONS ISSUED THROUGH DECEMBER 1962 - BIBLIOGRAPHY
RAE-LIB-BIBL-243 N64-17597 09-01

BIBLIOGRAPHY ON SNOW, ICE, AND PERMAFROST
CRREL-12, VOL. 17 N64-17633 09-21

BIBLIOGRAPHY OF EXPERIMENT DESIGN RESEARCH
NRC-405 N64-17921 10-16

USE OF REDUNDANCY AS MEANS OF IMPROVING RELIABILITY - BIBLIOGRAPHY
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COMPILATION OF ARTICLES ON MATHEMATICAL SIMULATION AND ELECTRIC CIRCUITS
JPRS-24041 N64-18093 10-20

BIBLIOGRAPHY ON TRITIUM RADIATION PROTECTION
LAMS-2946 N64-18094 10-16

BIBLIOGRAPHY ON ATTITUDE CONTROL OF SATELLITES AND SPACE VEHICLES
SID-63-232 N64-18391 10-30

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FLUXES AND THEIR USE IN SOLDERING ALUMINUM - BIBLIOGRAPHY
TID-3577 N64-18458 10-18

BIBLIOGRAPHY OF HUMAN FACTORS ENGINEERING - SYSTEM SAFETY, MAINTAINABILITY, PERSONNEL SUBSYSTEM, LIFE SCIENCES, QUALITY CONTROL, AND RELIABILITY
RH-33988 N64-18490 10-14

ABSTRACTS OF TECHNICAL & SCIENTIFIC INFORMATION - INFORMATION RETRIEVAL
OAR-016, VOL. 4 N64-18652 11-01

RUST REMOVAL AND CORROSION PREVENTIVE COMPOUNDS - BIBLIOGRAPHY
RIA-63-2762 N64-18656 11-17

RADIATION AND RADIOISOTOPES EFFECTS ON BIOLOGICAL SYSTEMS - ANNOTATED BIBLIOGRAPHY
TID-3098, BK. 1 N64-19035 11-14

ANNOTATED BIBLIOGRAPHY ON RADIATION EFFECTS ON BIOLOGICAL SYSTEMS
TID-3098, BK. 2 N64-19036 11-16

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SB-63-18 N64-19131 11-13

HYDROMAGNETIC PLASMA STABILITY STUDIES - BIBLIOGRAPHY AND SUMMARY
SIT-P104/11/63/ N64-19161 11-24

ANNOTATED BIBLIOGRAPHY OF RADIOISOTOPE & RADIATION EFFECTS ON LIFE PROCESSES
TID-3098/INDEX/ N64-19236 11-16

RADIATION EFFECT ON MECHANICAL PROPERTIES OF POLYMERS - BIBLIOGRAPHY
SC-R-64-124 N64-19241 11-19

SOUNDING ROCKET, SATELLITE AND SPACE PROBE LAUNCHINGS, AND OBSERVATIONS - BIBLIOGRAPHY N64-19319 12-32

SUPPLEMENT ON FERROELECTRICS - BIBLIOGRAPHY
EDL-M557 N64-19559 12-19

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NASA-CR-53830 N64-19616 12-20

ABSTRACTS OF ARTICLES ON ELECTRON AND PLASMA BEAM DYNAMICS - BIBLIOGRAPHY
AFCRL-64-95 N64-19631 12-24

FLOW VISUALIZATION TECHNIQUES FOR WIND TUNNELS - BIBLIOGRAPHY
AGARDOGRAPH-70 N64-19716 12-11

BEHAVIOR OF EOSINOPHILIC BLOOD CELLS WITH DIFFERENT TESTS IN SAME INDIVIDUAL - BIBLIOGRAPHY
OVL-310 N64-19799 12-16

BIBLIOGRAPHY ON HIGH TEMPERATURE CHEMISTRY AND PHYSICS OF MATERIALS IN CONDENSED STATE
N64-19810 12-07

HIGH TEMPERATURE CHEMISTRY AND PHYSICS OF GASES AND GAS-CONDENSED PHASE REACTIONS - BIBLIOGRAPHY
REPT.-11 N64-19811 12-07

PEACEFUL USES FOR NUCLEAR EXPLOSIVES - ANNOTATED BIBLIOGRAPHY
TID-3522/REV. 7/ N64-19852 12-26

SELECTED LISTING OF NASA SCIENTIFIC AND TECHNICAL REPORTS FOR 1963, INCLUDING ABSTRACTS AND SUBJECT INDEX
NASA-SP-7005 N64-19889 12-01

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N64-20020 13-16

ANNOTATED BIBLIOGRAPHY OF BIBLIOGRAPHIES ON SOLAR SYSTEM SCIENCE
P-2859 N64-20358 13-28

COMPILATION OF ABSTRACTS ON UPPER ATMOSPHERIC PHENOMENA
AID-P-64-31 N64-20470 13-12

ANNOTATED BIBLIOGRAPHY ON EXTRATERRESTRIAL MATTER IN INTERPLANETARY SPACE
REPT. 9990-6649-KU-000 N64-20475 13-05

OPTICAL IMAGE CONVERTERS - BIBLIOGRAPHY
SB-64-5 N64-20498 13-15

BIBLIOGRAPHY ON SUPERCONDUCTIVITY
SB-63-33 N64-20500 13-23

BIBLIOGRAPHY - RADIATION EFFECT ON ANIMALS, MAN, AND PLANTS
SB-62-60 N64-20517 13-16

FUSION THERMIT WELDING - BIBLIOGRAPHY
SB-63-25 N64-20518 13-17

VAN ALLEN TRAPPED RADIATION BELTS & EFFECT OF SPACE RADIATION ON SNAP REACTOR SYSTEMS - BIBLIOGRAPHY
NAA-SR-7849 N64-20529 13-12

DETECTION TECHNIQUES AND ATMOSPHERIC DISPERSION OF TOXIC GASES AND AEROSOLS
SB-63-39 N64-20531 13-21

BIBLIOGRAPHY ON DYNAMIC LOADING
SB-63-53 N64-20532 13-33

BIBLIOGRAPHY OF BIBLIOGRAPHIES IN INFORMATION RETRIEVAL SYSTEM
SB-64-7 N64-20533 13-01

WELDING AND BRAZING OF BERYLLIUM AND ITS ALLOYS - BIBLIOGRAPHY
SB-63-61 N64-20547 13-18

AEROSPACE TECHNOLOGY AND SPACECRAFT PROGRAMS - BIBLIOGRAPHY
CSR-169/9990/FBR-1 N64-20569 13-01

MATERIALS RESEARCH IN LAUNCH VEHICLE PROGRAMS - BIBLIOGRAPHY
NASA-TM-X-53006 N64-20593 13-01

DIGITAL COMPUTER APPLICATIONS IN STRUCTURAL ENGINEERING - BIBLIOGRAPHY N64-20613 13-20

BIOLOGY, MEDICINE, SAFETY, MATERIALS, AND METEOROLOGY - BIBLIOGRAPHY
HW-80524 N64-20669 13-01

METEOROLOGICAL SATELLITE BIBLIOGRAPHY
N64-20676 13-32

ANNOTATED BIBLIOGRAPHY ON USE OF NUCLEAR EXPLOSIONS FOR PEACEFUL PURPOSES
N64-20716 13-23

BIBLIOGRAPHY ON DESIGN, CONSTRUCTION AND MAINTENANCE OF AIRPORTS AND HELIPORTS
N64-20810 14-10

SLOTTED ANTENNA STUDIES - BIBLIOGRAPHY
SB-63-4 N64-20891 14-09

BIBLIOGRAPHY ON SYSTEMS ENGINEERING
SB-63-12 N64-20892 14-01

ANNOTATED BIBLIOGRAPHY ON THERMODYNAMICS OF BERYLLIUM AND ITS REFRACTORY COMPOUNDS - OXIDES, CARBIDES, & NITRIDES
SB-63-16 N64-20893 14-13

ANNOTATED BIBLIOGRAPHY ON BERYLLIUM METAL, ALLOYS, AND COMPOUNDS,
SB-62-22 N64-20894 14-11

ANNOTATED BIBLIOGRAPHY ON DIGITAL COMPUTER METHODS OF ELECTRICAL AND ELECTRONIC SYSTEMS DESIGN
SB-63-65 N64-20895 14-09

ANNOTATED BIBLIOGRAPHY ON SILO AND SEA LAUNCH DYNAMICS
SB-63-67 N64-20896 14-10

ANNOTATED BIBLIOGRAPHY ON PULSE CODE MODULATED TELEMETRY
SB-64-6 N64-20897 14-08

ANNOTATED BIBLIOGRAPHY ON SYNTHESIS AND PHYSICAL PROPERTIES OF ALUMINUM HYDRIDE AND RELATED COMPOUNDS
TDR-269/4210-10/-4 N64-21026 14-19

ANNOTATED BIBLIOGRAPHY ON PRINTED CIRCUITS AND WELDED ELECTRONIC MODULES
REPT.-3-35-64-2 N64-21148 14-09

ANNOTATED BIBLIOGRAPHY - FABRICATION OF IRON, NICKEL, NICKEL-IRON OR PERMALLOY FILM BY THERMAL DECOMPOSITION OF CARBONYLS OR OTHER METHODS
SP-63-62 N64-21165 14-10

SECONDARY INJECTION THRUST VECTOR CONTROL - BIBLIOGRAPHY
HREC/LMSC-A033127 N64-21214 14-27

EFFECTS OF FACTORS ON RESPONSE VARIABLES - ANNOTATED BIBLIOGRAPHY
AROD-2579-17 N64-21437 14-20

BIBLIOGRAPHY OF INTERPLANETARY MAGNETIC FIELD OBSERVATIONS
LR-17860 N64-21485 14-20

ANNOTATED BIBLIOGRAPHY ON MATERIALS FOR REENTRY CONDITIONS AND RELATED COOLING SYSTEMS
RR-TR-64-1 N64-21498 15-30

BIBLIOGRAPHY ON MANNED ORBITAL SPACE STATIONS INCLUDING COMPONENTS, STRUCTURAL MATERIALS, POWER SUPPLY, AND LIFE SUPPORT SYSTEMS
R63SD65 N64-21677 15-32

BIBLIOGRAPHY OF SATELLITE ORBIT DATA FROM RADIO OBSERVATIONS N64-21731 15-32

BIBLIOGRAPHY - HIGH ENERGY PROPELLANTS
NASA-SP-7002 N64-21785 15-26

BIBLIOGRAPHY ON COMPRESSED AIR SYSTEMS
KAPL-M-TL-1 N64-21844 15-16

BIBLIOGRAPHY ON ETHICAL AND SOCIAL PROBLEMS OF SCIENCE AND TECHNOLOGY
LARS-3028 N64-22060 15-01

ANNOTATED BIBLIOGRAPHY ON LONG RANGE PLANNING AND TECHNOLOGICAL FORECASTING
SRB-63-12 N64-22200 15-01

ANNOTATED BIBLIOGRAPHY ON NEUTRON FLUX MEASUREMENT
SRB-63-7 N64-22219 15-23

TRACKING MISSILES AND SPACE VEHICLES - ANNOTATED BIBLIOGRAPHY
AID-P-64-36 N64-22289 15-08

DELAYING TRANSITION FROM LAMINAR TO TURBULENT FLOW - BIBLIOGRAPHY
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BIONICS - BIBLIOGRAPHY OF BIOLOGICAL RECEPTORS AND REGULATORS AND APPLICATION TO ENGINEERING DESIGN
SRB-63-2 N64-22372 15-16

BIBLIOGRAPHY ON ENGINEERING PSYCHOLOGY, TRAINING PSYCHOLOGY, ENVIRONMENTAL STRESS, SIMULATION TECHNIQUES, AND PHYSICAL ANTHROPOLOGY
AD-600804 N64-22515 15-14

DYNAMIC PROGRAMMING - BIBLIOGRAPHY
RM-3951-PR N64-22614 15-20

BIBLIOGRAPHY OF ELECTRONIC COUNTERMEASURES AND COUNTER-COUNTERMEASURES
SD-63-64 N64-22694 15-09

BIOMEDICAL RESEARCH IN ACCELERATION, IMPACT, WEIGHTLESSNESS, VIBRATION, AND EMERGENCY ESCAPE AND RESTRAINT SYSTEM - BIBLIOGRAPHY
CARI-63-30 N64-22711 15-16

ELECTROCHEMICAL BATTERIES - ANNOTATED BIBLIOGRAPHY
SB-63-14 N64-22957 16-06

BIBLIOGRAPHY - ASTRONOMY IN USSR
FTD-TT-63-1149, PT. 2 N64-2310C 16-05

METEOROLOGY AND CLIMATOLOGY - ANNOTATED BIBLIOGRAPHY
AID-P-64-37 N64-23272 16-22

MATHEMATICAL PROGRAMMING - BIBLIOGRAPHY
SRC-64-6/RN/ N64-23274 16-20

SOVIET DEVELOPMENTS IN ASTROPHYSICS AND GEOPHYSICS OF UPPER ATMOSPHERE
AID-P-64-19 N64-23330 16-12

SPACE VEHICLE DATA LINK REQUIREMENTS - BIBLIOGRAPHY
SB-63-57 N64-23345 16-30

IONIZING RADIATION EFFECTS ON PERFORMANCE CAPABILITIES OF ASTRONAUTS - ANNOTATED BIBLIOGRAPHY
SRB-63-13 N64-23365 16-14

EXOBIOLOGY - ANNOTATED BIBLIOGRAPHY
NASA-CR-53806 N64-23393 16-16

MICROBIOLOGY - ANNOTATED BIBLIOGRAPHY
FTD-TT-63-1009/1&2 N64-23432 16-16

BIBLIOGRAPHY - VORTEX TUBES
UCRL-7829 N64-23616 16-11

BIBLIOGRAPHY ON AIR FORCE ROCKET PROPULSION LABORATORY
RPL-TDR-64-53 N64-23879 16-27

AERODYNAMIC CHARACTERISTICS OF BODIES OF REVOLUTION WITH FINS - ANNOTATED BIBLIOGRAPHY
SB-63-76 N64-23880 16-02

ANNOTATED BIBLIOGRAPHY ON FUSION WELDING OF ALLOYS OF MAGNESIUM WITH LITHIUM AND THORIUM
SB-63-52 N64-23881 16-18

ANNOTATED BIBLIOGRAPHY ON GEOMAGNETIC FIELD
REPT.-3-56-63-2 N64-23882 16-12

MICROMINIATURIZATION OF ELECTRONIC EQUIPMENT - ANNOTATED BIBLIOGRAPHY
SB-62-67 N64-23883 16-09

ANNOTATED BIBLIOGRAPHY ON RADIO FREQUENCY TRANSMISSION THROUGH PLASMA SHEATH OF REENTRY VEHICLES
SB-64-10 N64-23884 16-24

BIBLIOGRAPHY OF SOLAR RADIATION AND UPPER ATMOSPHERIC PHENOMENA
AID-P-64-32 N64-24099 16-12

LIFE SUPPORT SYSTEMS - ANNOTATED BIBLIOGRAPHY
AID-P-64-33 N64-24100 16-16

PRESSURE DROP IN FLEXIBLE METAL HOSES, BELLOWS AND GIMBAL JOINTS - ANNOTATED BIBLIOGRAPHY
NASA-CR-56540 N64-24109 16-17

BIBLIOGRAPHY OF BIOSENSORS
NASA-GR-56347 N64-24116 16-16

SOLAR FLARE FORECASTS & PREDICTION - BIBLIOGRAPHY
AID-P-63-43 N64-24140 16-28

BIBLIOGRAPHY ON RELIABILITY
FTC-TDR-63-13 N64-24173 16-04

ANNOTATED BIBLIOGRAPHY OF LUNAR SURFACE STUDIES
NASA-SP-7003 N64-24244 17-29

PLASTIC MATERIALS - CONFERENCE
PLASTEC-14 N64-24333 17-19

MATHEMATICS OF FLUID FLOW, ELECTROMAGNETIC WAVE PROPAGATION, CELESTIAL MECHANICS, CONTROL THEORY, AND SYSTEM RELIABILITY ANALYSIS - BIBLIOGRAPHY
N64-24380 17-20

BIBLIOGRAPHY ON THEORETICAL PHYSICS AND NUCLEAR STRUCTURE N64-24395 17-23

STABILITY OF REINFORCED CYLINDRICAL AND CONICAL SHELLS - ANNOTATED BIBLIOGRAPHY
N64-24844 17-33

SHOCK AND VIBRATION IN SPACE ENVIRONMENT BIBLIOGRAPHY
SB-63-24 N64-24920 17-02

ANNOTATED BIBLIOGRAPHY ON GEARS, BEARINGS, AND LUBRICANTS FOR AEROSPACE APPLICATIONS
SB-63-59 N64-24921 17-17

ANNOTATED BIBLIOGRAPHY ON SKY ILLUMINATION - AIRGLOW, AURORAS, NOCTILUCENT CLOUDS, ZODIACAL LIGHT, GEGENSCHEIN, AND INSTRUMENTATION
AID-B-64-42 N64-24951 17-12

BIBLIOGRAPHY ON AEROSONICS - AERODYNAMIC SOUND AND FLUID DYNAMICS OF JET FLOW
REPT.-64-20 N64-25207 17-11

BIBLIOGRAPHY OF FLUID AMPLIFICATION TECHNIQUES
N64-25307 17-11

BIBLIOGRAPHY OF RADIATION EFFECTS ON LIVING ORGANIC MATERIAL
SB-62-80, VOL. II N64-25511 17-16

BIBLIOGRAPHY OF UPPER ATMOSPHERE AND SPACE
NASA-TT-F-229 N64-25644 17-12

BERYLLIUM - ANNOTATED BIBLIOGRAPHY
SB-63-54 N64-25666 17-18

CONVERSION COATINGS FOR ALUMINUM ALLOYS - ANNOTATED BIBLIOGRAPHY
NASA-CR-56317 N64-25766 17-18

BIBLIOGRAPHY ON EFFECTS OF WATER VAPOR AND OTHER GASES ON REACTOR FUEL ELEMENTS
UCRL-7836 N64-25864 18-18

SYSTEM FOR NUCLEAR AUXILIARY POWER /SNAP/ PROGRAM

FUELS USING ZIRCONIUM AND URANIUM SYSTEMS - BIBLIOGRAPHY
NAA-SR-9525, VOL. I N64-25866 18-18

BIBLIOGRAPHY ON COMMUNICATIONS SATELLITES
NASA-SP-7004 N64-25874 18-32

TECHNIQUES FOR IMPROVING DETECTION OF CONTAMINANTS IN LIQUID PROPELLANTS - BIBLIOGRAPHY
REPT.-2638 N64-25889 18-26

ANNOTATED BIBLIOGRAPHY ON AEROSPACE MEDICINE AND BIOLOGY
NASA-SP-7011 N64-25948 18-16

SUMMARY AND BIBLIOGRAPHY ON VARIOUS METHODS OF VOID FRACTION AND FILM THICKNESS MEASUREMENT
DSR 8734-2 N64-26011 18-23

METEOROLOGY AND GEOASTROPHYSICS - ANNOTATED BIBLIOGRAPHY N64-26022 18-12

LUNAR INFLUENCE ON ATMOSPHERIC AND GEOPHYSICAL PHENOMENA - BIBLIOGRAPHY N64-26023 18-12

ANNOTATED BIBLIOGRAPHY ON HIGH VACUUM LIQUID METAL DISTILLATION
IS-799 N64-26029 18-18

BIBLIOGRAPHY ON SILICATE CHEMISTRY
JPRS-25037 N64-26299 18-07

EFFECT OF MICROORGANISMS ON NATURAL AND SYNTHETIC RUBBER - BIBLIOGRAPHY
PDL-50015 N64-26322 18-07

ANNOTATED BIBLIOGRAPHY ON AEROSPACE MEDICINE N64-26357 18-16

CHEMICAL AND RADIATION STERILIZING AGENTS - BIBLIOGRAPHY OF EFFECTS ON MICROORGANISMS
NASA-CR-58123 N64-26372 18-16

ANNOTATED BIBLIOGRAPHY ON GROWTH OF METAL AND METALLIC OXIDE WHISKERS
SB-63-68 N64-26714 18-18

SOLAR AND GEOPHYSICAL ASPECTS OF COSMIC RADIATION AND MAGNETOHYDRODYNAMICS - BIBLIOGRAPHY
AFCRL-63-893 N64-26717 18-28

BIBLIOGRAPHIES ON AEROSPACE SCIENCE
NASA-SP-7006 N64-26753 18-01

EFFECTS OF RADIATION AND HOT ATOMS ON SIMPLE COMPOUNDS - BIBLIOGRAPHY
SB-63-37 N64-26820 18-07

PACKAGING AND INTERCONNECTIONS FOR MINIATURIZED ELECTRONIC SYSTEMS - BIBLIOGRAPHY
SB-63-51 N64-26821 18-09

COSMIC RADIATION AND NEAR EARTH SPACE ENVIRONMENT - BIBLIOGRAPHY
SB-63-71 N64-26822 18-28

ADHESIVES, SEALS, GASKETS, AND POLYMERIC MATERIALS FOR AEROSPACE APPLICATIONS - BIBLIOGRAPHY
SB-63-77 N64-26823 18-19

BIBLIOGRAPHY ON HIGH TEMPERATURE CHEMISTRY AND PHYSICS OF MATERIALS IN CONDENSED STATE N64-26900 18-07

ANNOTATED BIBLIOGRAPHY ON AIRCRAFT NOISE
TIL/BIB/73/VOL. 3 N64-27001 19-23

SURVEY OF SOVIET SWITCHING THEORY AND LOGICAL DESIGN OF DIGITAL SYSTEMS - BIBLIOGRAPHY
AFCRL-64-452 N64-27079 19-09

GEOASTROPHYSICS AND METEOROLOGY - ANNOTATED BIBLIOGRAPHY N64-27189 19-28

BIBLIOGRAPHY ON COSMIC RADIATION N64-27190 19-28

SURVEY OF SCIENTIFIC RESEARCH IN UNITED STATES - BIBLIOGRAPHY N64-27208 19-01

BIBLIOGRAPHY ON RELIABILITY N64-27220 19-17

BIBLIOGRAPHY ON BOILING HEAT TRANSFER
REPT.-19 N64-27346 19-13

BIBLIOGRAPHY ON HUMAN FACTOR ENGINEERING
RM-3398-E N64-27351 19-14

BIBLIOGRAPHY ON IONOSPHERE AND UPPER ATMOSPHERE
B-4 N64-27521 19-12

ANNOTATED BIBLIOGRAPHY OF AERODYNAMIC CHARACTERISTICS OF BODIES OF REVOLUTION WITHOUT FINS
SB-63-75 N64-27793 19-02

BIBLIOGRAPHY OF THERMOPHYSICAL PROPERTIES OF ARGON
NASA-CR-56793 N64-27835 19-23

ATOMIC AND MOLECULAR COLLISION CROSS SECTIONS IN CONTROLLED THERMONUCLEAR RESEARCH - BIBLIOGRAPHY
ORNL-3113, REV. N64-27948 20-23

ANNOTATED BIBLIOGRAPHY ON HUMAN SCIENCES IN INDUSTRY - ERGONOMICS N64-28104 20-14

BIBLIOGRAPHY OF BIOLOGICAL, CHEMICAL, GEOLOGICAL MATHEMATICAL, PHYSICS, AND ENGINEERING ABSTRACTS N64-28140 20-10

ANNOTATED BIBLIOGRAPHY ON NONMAGNETIC MATERIALS FOR USE IN SPACECRAFT N64-28211 20-25

BIBLIOGRAPHY ON AERONAUTICAL WEIGHT ESTIMATION AND CONTROL N64-28303 20-34

BIBLIOGRAPHY ON HUMAN FACTORS SYSTEM PROGRAM
NASA-SP-7014 N64-28317 20-14

BIBLIOGRAPHY ON MAGNETIC DIFFUSION & DRIFT INSTABILITIES OF PLASMAS
MATT-205 N64-28421 20-24

BIBLIOGRAPHY ON CREATIVITY, INNOVATION, AND INVENTION FOR INDUSTRY N64-28451 20-01

BIBLIOGRAPHY ON ELECTROMAGNETIC SCATTERING
AD-440869 N64-28509 20-08

BIBLIOGRAPHY OF GAS AND CONDENSED PHASE REACTIONS OF HIGH TEMPERATURE CHEMISTRY AND PHYSICS N64-28694 20-07

BIBLIOGRAPHY - RADIATION EFFECTS ON NOBLE METALS
UCRL-7810 N64-28739 20-25

ANNOTATED BIBLIOGRAPHY ON CORROSION EFFECTS OF PURE AND DISTILLED WATER
NASA-CR-58640 N64-28887 20-10

ANNOTATED BIBLIOGRAPHY OF STAGE SEPARATION AND EJECTION SYSTEMS OF FLIGHT VEHICLES
SB-64-14 N64-29314 21-06

ANNOTATED BIBLIOGRAPHY ON ELECTRIC PROPULSION
NASA-CR-58361 N64-29522 21-17

BIBLIOGRAPHY ON HOLMIUM
UCRL-7919 N64-29655 21-25

BIBLIOGRAPHY ON HUMAN ENGINEERING
ONR-ACR-86 N64-29676 21-14

ANNOTATED BIBLIOGRAPHY OF RADIOISOTOPES IN WORLD INDUSTRY
TID-6613, SUPPL. 5 N64-29779 21-07

BIBLIOGRAPHY ON SNOW, ICE, AND PERMAFROST
CRREL-12 N64-29866 21-12

BIBLIOGRAPHY ON THEORY OF GRAVITATION
LAMS-3099 N64-30374 22-23

BIBLIOGRAPHY ON MAINTENANCE PERSONNEL PERFORMANCE MEASUREMENT
AMRL-MEMO-P-45 N64-30500 22-14

BIBLIOGRAPHY ON SHOCK TUBE APPLICATIONS IN CHEMISTRY AND PHYSICS

NLR-1189 N64-30625 22-07

BIBLIOGRAPHY ON MONTE CARLO METHODS
UCRL-7823 N64-30650 22-20

ELECTRONICS RESEARCH BRIEFS
AD-602949 N64-30735 22-09

ANNOTATED BIBLIOGRAPHY ON POLYURETHANE PROTECTIVE COATINGS
PDL-50915 N64-30758 22-19

RADIOACTIVE MATERIAL HANDLING - BIBLIOGRAPHY
TID-3578 N64-30805 22-10

ABSTRACTS ON BASIC AND APPLIED RESEARCH AND DEVELOPMENT PROGRAM IN METALS, CERAMICS, NON-METALS, AND ELASTOMERS
WADC-TR-53-373, SUPPL. 10 N64-30936 22-17

CRYSTALLOGRAPHY, CRYSTAL GROWTH & CHEMISTRY, GLASS, IONS FOR LASERS, AND ANNOTATED BIBLIOGRAPHY ON LASER MATERIALS
NASA-CR-75 N64-30992 22-25

BIBLIOGRAPHY OF REVERSED-PHASE PARTITION CHROMATOGRAPHY
IS-450 N64-31015 22-07

COLLECTION OF ARTICLES ON MATHEMATICAL LOGIC, CYBERNETICS, AND COMPUTER TECHNOLOGY
JPRS-26740 N64-31037 22-20

ANNOTATED BIBLIOGRAPHY ON COMBINED EFFECTS OF SPACE ENVIRONMENTAL PARAMETERS UPON SATELLITE SYSTEMS AND COMPONENTS
REPT.-3-35-64-3 N64-31117 22-28

ESTIMATION OF TRACE IMPURITIES BY FLUORIMETRIC METHODS - LITERATURE SURVEY AND EXPERIMENTS WITH FLUORESCENCE REAGENTS AND SEPARATION TECHNIQUES
FTR/1/GE, PT. 1 N64-31322 22-07

BIBLIOGRAPHY ON GROUPS IV, V, AND VI TRANSITION METALS - PREPARATION METHODS, CRYSTAL STRUCTURE, PHASE TRANSITIONS, AND PHYSICAL, MECHANICAL, AND TRANSPORT PROPERTIES
ORNL-RMIC-3 N64-31466 23-25

ANNOTATED BIBLIOGRAPHY ON FLUID AMPLIFIERS
NASA-CR-102 N64-31700 23-06

BIBLIOGRAPHY ON NATURAL MAMMALIAN HIBERNATION
AAL-TDR-63-34 N64-31936 23-16

BIBLIOGRAPHY ON BLAST AND SHOCK WAVES MAINLY FROM NUCLEAR REACTIONS
TDCK-30050-51 N64-32017 23-11

ANNOTATED BIBLIOGRAPHY ON PHYSICAL CHARACTERISTICS OF THERMAL RADIATION AND RADIATION SOURCES, AND PROTECTION AGAINST BIOLOGICAL EFFECTS
TDCK-33500 N64-32018 23-16

BIBLIOGRAPHY ON NOCTILUCENT AND NACREOUS CLOUDS, CIRRIFORM CLOUDS, AND CONDENSATION TRAILS
ERDA-181 N64-32034 23-21

BIBLIOGRAPHY ON EFFECTS OF VAN ALLEN RADIATION BELTS ON ELECTRONIC MATERIALS
PDC-SEARCH-63-003 N64-32057 23-28

BIBLIOGRAPHY OF EXTRATERRESTRIAL RESEARCH
AFWL-TDR-64-29 N64-32101 23-29

BIBLIOGRAPHY ON ROCK DEFORMATION
AFCRL-64-713 N64-32113 23-25

ANNOTATED BIBLIOGRAPHY ON DYE SENSITIZED PHOTOREACTIONS - SILVER HALIDE, FREE RADICAL, AND POLYMERIZATION SENSITIZERS
AL-TDR-64-130, PT. II, VOL. I N64-32214 23-07

COMPUTER APPLICATIONS IN MEDICINE AND BIOLOGICAL SCIENCES - BIBLIOGRAPHY
SP-1025/001/00 N64-32324 23-16

ANNOTATED BIBLIOGRAPHY ON UPPER ATMOSPHERIC PHENOMENA
AID-P-64-15 N64-32353 23-12

BIBLIOGRAPHY ON UPPER ATMOSPHERE PHENOMENA
ATD-P-64-51 N64-32354 23-12

ANNOTATED BIBLIOGRAPHY ON LIFE SUPPORT SYSTEMS - SPACE MEDICINE AND BIOLOGY, AND PHYSIOLOGY
ATD-P-64-52 N64-32355 23-16

ANNOTATED BIBLIOGRAPHY ON LIFE SUPPORT SYSTEMS - SPACE MEDICINE AND BIOLOGY, AND PHYSIOLOGY
ATD-P-64-53 N64-32356 23-16

ANNOTATED BIBLIOGRAPHY ON AEROSPACE MEDICINE AND BIOLOGY
NASA-SP-7011/02/ N64-32407 23-16

ANNOTATED BIBLIOGRAPHY ON HIGH TEMPERATURE SUPERALLOYS AND PROTECTIVE COATINGS
PDC-SEARCH-63-050 N64-32409 23-18

ANNOTATED BIBLIOGRAPHY ON SNOW, ICE, & PERMAFROST
CRREL-12, VOL. XVIII N64-32521 23-12

BIBLIOGRAPHY ON BALLISTICS, GUIDED MISSILES, AND WEAPONS
TDCK-15963 N64-32590 23-33

BIBLIOGRAPHY ON OPERATIONS RESEARCH & GAME THEORY
TDCK-36938 N64-32591 23-01

BIBLIOGRAPHY ON HUMAN PERFORMANCE IN TRACKING SYSTEMS
CAL-131 N64-32606 23-14

ANNOTATED BIBLIOGRAPHY OF AEROSPACE MEDICINE AND BIOLOGY
NASA-SP-7011/03/ N64-32741 24-16

BIBLIOGRAPHY ON PROFICIENCY MEASUREMENT FOR TRAINING QUALITY CONTROL
AD-448362 N64-32813 24-14

ANNOTATED BIBLIOGRAPHY ON RADAR SIMULATION BY ANALOG OR DIGITAL COMPUTER TECHNIQUES
SB-64-12 N64-32966 24-08

ANNOTATED BIBLIOGRAPHY ON ELECTRONIC COUNTERMEASURES AND COUNTER-COUNTERMEASURES
SB-64-13 N64-32972 24-08

ANNOTATED BIBLIOGRAPHY ON AEROSPACE SCIENCE AND TECHNOLOGY
NASA-CR-58761 N64-32991 24-29

INDEXED BIBLIOGRAPHY OF CONFERENCE PAPERS ON PLASTIC MATERIAL
PLASTEC-17 N64-33137 24-19

BIBLIOGRAPHY ON ATOMIC RADIATION EFFECTS
TID-3909 /SUPPL. 2/ N64-33138 24-16

ANNOTATED BIBLIOGRAPHY ON TECHNOLOGY OF LIQUID METALS - MERCURY, POTASSIUM, SODIUM, AND SODIUM-POTASSIUM ALLOY
NASA-CR-59028 N64-33194 24-18

BIBLIOGRAPHY ON MAGNETORESISTANCE AND HALL EFFECT IN METALS, SEMICONDUCTORS, AND ALLOYS
NAVWEPS-8191 N64-33240 24-25

BIBLIOGRAPHY AND ABSTRACTS - AIRCRAFT CRASH, FIRE, RESCUE, AND EVACUATION TECHNOLOGY
ADS-16 N64-33245 24-04

ANNOTATED BIBLIOGRAPHY ON ORTHO AND PARA HYDROGEN AND CONVERSIONS
APL-TDR-64-81 N64-33303 24-07

THERMAL ENVIRONMENT AND PROTECTION OF STRUCTURES BY ABLATIVE TECHNIQUES - ANNOTATED BIBLIOGRAPHY
PIBAL-686 N64-33318 24-13

ANNOTATED BIBLIOGRAPHY ON HELIUM 3
NLR-1190 N64-33718 24-23

BIBLIOGRAPHY ON WIND-INDUCED OSCILLATIONS OF SATURN BOOSTER IN VERTICAL LAUNCH POSITION
NASA-CR-59329 N64-33769 24-33

BIBLIOGRAPHY ON ECHO COMMUNICATIONS SATELLITE
AD-422849 N64-33847 24-32

BIHARMONIC EQUATION
S ELASTICITY
S HARMONIC FUNCTION

BILIRUBIN
PATTERN AND MODE OF DISTRIBUTION OF LESIONS IN CHRONIC CASES OF HYPOXEMIC AND BILIRUBIN ENCEPHALOPATHY N64-14597 06-16

BILLET
DECREASE OF MATERIAL LOSS BY USE OF ELECTRONIC COMPUTERS TO CONTROL CUTTERS IN BILLET MILLS
JPRS-20344 N64-10842 02-17

CRYSTALLIZATION & FORMATION OF INGOTS USING CONSUMABLE ELECTRODE ARC-MELTING PROCESS
JPRS-23056 N64-14257 06-17

FABRICATION, EXTRUSION, AND FORMING OF URANIUM MARK V-B BILLETS
BRB-81 N64-25818 17-01

REFRACTORY MATERIAL LINERS FOR EXTRUSION BILLET CONTAINERS
ML-TDR-64-194 N64-30117 21-17

BINARY ALLOY
MELTING OF BINARY AND TERNARY ALLOYS OF TUNGSTEN, MOLYBDENUM, AND RHENIUM N64-12448 04-18

UNIDIRECTIONALLY SOLIDIFIED BINARY EUTECTIC ALLOYS - SOLIDIFICATION AND TESTING PROCEDURES, MECHANICAL PROPERTIES AND FRACTURE MECHANISMS
B-910068-4 N64-13125 04-18

MOLTEN NICKEL WETTABILITY OF PRESSED POWDERED CARBIDE ALLOYS - NIOBIUM & VANADIUM CARBIDES, AND NIOBIUM & TITANIUM CARBIDES
N64-13699 05-19

BERYLLIUM-RICH BINARY SYSTEMS
REPT.-2-53-64-1 N64-15359 07-19

METALLOGRAPHY AND X-RAY DIFFRACTION STUDY OF SAMARIUM-TYPE INTERMEDIATE PHASE IN RARE EARTH BINARY SYSTEMS
DRI-2141 N64-17278 09-25

RECRYSTALLIZATION OF BINARY ALLOYS OF MAGNESIUM WITH CERIUM N64-21191 14-18

ADDITION EFFECT OF ALLOYING ADMIXTURES ON SCALING RESISTANCE AND OXYGEN CONTAMINATION OF BINARY ALLOY OF NIOBIUM AND ZIRCONIUM
FTD-TT-63-1020/1&2 N64-23435 16-18

THERMODYNAMIC PROPERTIES OF BIMETALLIC COMPOUNDS
AD-442550 N64-28819 20-13

SAMARIUM TYPE INTERMEDIATE PHASES OF INTRA-RARE EARTH BINARY SYSTEM
TR-1 N64-31276 22-18

METASTABLE EXTENSION OF SOLUBILITY LIMIT IN SILVER-BASE BINARY ALLOYS OF TIN, ANTIMONY, AND SILICON
TR-14 N64-31289 22-18

BINARY CODE
BINARY EFFECTS OF COUPLED LINEAR FEEDBACK SHIFT REGISTER
DVL-307 N64-15032 07-09

DESIGN OF COMPUTER COMPONENT FOR SUMMATION OF DATA IN BINARY CODE
FTD-TT-63-175/1&2 N64-16416 08-20

CONVERTING VOLTAGES INTO BINARY CODES
FTD-TT-63-1143/1&2&4 N64-22155 15-09

BINARY-DECIMAL CODE FOR TRANSMITTING TELEMETRY SIGNALS
FTD-TT-64-302/1&2 N64-25452 17-08

ERROR IN BINARY MULTIPLICATION BY DIGITAL COMPUTERS N64-29741 21-20

FLIGHT MISSION DATA RECORDING IN BINARY CODE ON MAGNETIC TAPE OR PUNCHED PAPER TAPE
N64-30536 22-16

BINARY NUMBER REPRESENTATIONS FOR DIGITAL COMPUTER
EF-3765-3 N64-30892 22-20

BINARY CODED DECIMAL COMMUTATORS FOR MECHANICAL CALCULATING MACHINES N64-31860 23-20

BINARY DATA
MAXIMUM-LIKELIHOOD DETECTION IN BINARY CHANNEL WITH MEMORY
AFCRL-63-313 N64-12610 04-09

BINARY TO VIDEO DATA CONVERTER
RADC-TDR-63-427 N64-18565 11-09

ASYMPTOTIC PERFORMANCE CHARACTERISTICS FOR OPTIMA BINARY DATA-HANDLING SYSTEMS
NASA-CR-56784 N64-25494 17-09

BINARY MIXTURE
PHASE RELATIONS AND ELECTRICAL & THERMAL PROPERTIES IN TIN-TELLURIUM-ANTIMONY AND TIN-TELLURIUM-BISMUTH PSEUDOBINARY SYSTEMS
DMS MASTER*S 63-2 N64-13395 04-19

X-RAY DIFFRACTION AND OPTICAL MICROSCOPIC DATA ON PHASES IN BINARY OXIDES
BM-RI-6428 N64-19294 11-19

DECAY ANALYSIS OF INITIAL NONEQUILIBRIUM STATE OF BINARY REACTING MIXTURE IN CONSTANT AREA CHANNEL WITHIN LINEAR THERMODYNAMICS
N64-26332 19-02

HEAT TRANSFER MEASUREMENT FOR BINARY LAMINAR BOUNDARY LAYERS WITH HIGH SECOND GAS INJECTION RATES
NASA-TN-D-2473 N64-30097 21-13

BINDER
CF ADHESIVE
VISCOELASTIC TESTING OF SOLID POLYURETHANE PROPELLANTS AND PROPELLANT BINDERS
AD-424696 N64-13107 04-26

VISCOELASTICITY OF SOLID PROPELLANTS AND PROPELLANT BINDERS - DYNAMIC SHEAR, SPECIFIC VOLUME, AND DEFORMATION & STRAIN RATES
AD-434853 N64-18618 11-26

VISCOELASTIC PROPERTIES OF SOLID PROPELLANTS AND PROPELLANT BINDERS - SHEAR, SPECIFIC VOLUME, AND TENSILITY
REPT.-9 N64-19142 11-26

AGING OF POLYURETHANE PROPELLANT BINDER
BSD-TDR-64-52 N64-22270 15-26

THERMOSETTING CHARACTERISTICS OF BINDERS FOR GRAPHITE
WADD-TR-61-72, VOL. XXXII N64-24949 17-19

BONDING AND PYROLYSIS CHARACTERISTICS OF TWO SYNTHETIC BINDERS FOR GRAPHITE MATERIALS
WADD-TR-61-72, VOL. XL N64-26894 18-19

DYNAMIC SHEAR AND COMPRESSIBLE PROPERTIES OF SOLID PROPELLANTS AND PROPELLANT BINDERS
REPT.-11 N64-27548 19-26

FIRING INSTABILITY OF AGED ROCKET PROPELLANTS AND IMPROVED STORAGE STABILITY OF POLYURETHANE BINDERS
ML-TDR-64-65 N64-27640 19-19

POTASSIUM SILICATE BINDER FOR SOLID LUBRICANT FILMS
NASA-CR-58204 N64-27900 20-17

CHROMIUM, MOLYBDENUM, AND TUNGSTEN BINDERS FOR ZIRCONIUM DIBORIDE SUBJECTED TO MECHANICAL SHOCK AT HIGH TEMPERATURES
BM-RI-6549 N64-33247 24-18

BIOASTRONAUTICS
POTENTIAL CONTRIBUTIONS TO BIOLOGY FROM EXPERIMENTAL STUDIES IN SPACE - RADIATION EFFECT

N64-10266 01-16

BIOTECHNOLOGY AND HUMAN RESEARCH PROGRAM OF NASA - BIOASTRONAUTICS
AD3-10208 N64-10302 01-16

COSMIC RADIATION HAZARD FOR MANNED SPACE FLIGHT - PHARMACOLOGICAL PROTECTION, PHYSICAL & BIOLOGICAL DOSIMETRY N64-10514 01-16

HISTORY, NATURE, AND THEORY OF ASTROBIOLOGY
JPRS-17724 N64-10643 01-16

SPACE FLIGHT BIOLOGICAL PROBLEMS - OVERLOADING, VIBRATION, WEIGHT, RADIATION, PRESSURE, ISOLATION, TEMPERATURE, AND FOOD
JPRS-20168 N64-11134 02-16

SPACE BIOLOGY, BIOLOGICAL EXPERIMENTATION ON SATELLITES, AND RELATED GROUND EXPERIMENTS
NASA-TT-F-174 N64-11665 03-01

EFFECT OF SPACE VEHICLE FLIGHT DYNAMICS, AMBIENT SPACE, AND SPACECRAFT ENVIRONMENT ON EARTH ORGANISMS - SPACE BIOLOGY N64-11666 03-29

SPACE BIOLOGY - EFFECT OF RADIATION EXPOSURE AND WEIGHTLESSNESS ON ORGANISMS, AND SPACE FOOD STUDY N64-11667 03-16

RADIOBIOLOGICAL PROBLEMS DUE TO COSMIC RADIATION EXPOSURE DURING SPACE FLIGHT - BIBLIOGRAPHY N64-11668 03-16

TELEMETRY SYSTEM FOR TRANSMISSION OF BIOLOGICAL DATA FROM SPACE FLIGHTS N64-11669 03-16

MICROBIOLOGICAL AND CYTOLOGICAL INVESTIGATIONS OF CONDITIONS IN OUTER SPACE, & GENETIC EFFECTS OF SPACE FLIGHT N64-11670 03-16

POSSIBILITY OF EXISTENCE AND METHODS OF DETECTING EXTRATERRESTRIAL LIFE N64-11671 03-16

PROBLEM OF SUPPLYING SPACECREW WITH FOOD OF ANIMAL ORIGIN N64-11672 03-16

BIOCHEMICAL INVESTIGATION OF BLOOD & URINE OF DOGS AFTER SPACE FLIGHT N64-11673 03-16

BIOCHEMICAL INVESTIGATION OF BLOOD OF DOGS AFTER SPACE FLIGHT N64-11674 03-16

BLOOD CIRCULATION IN EARS OF DOGS AFTER SPACE FLIGHT N64-11675 03-16

CONDITIONED RESPONSE OF WHITE RATS OBSERVED AFTER SPACE FLIGHT N64-11676 03-16

INFLUENCE OF SPACE FLIGHT FACTORS ON HEMATOPOIETIC ORGANS IN MICE N64-11677 03-16

EFFECT OF SPACE FLIGHT CONDITIONS IN SATELLITE ON PRESERVATION OF VIABILITY OF CHORELLA CULTURE N64-11678 03-16

EFFECT OF SPACE FLIGHT ON HEMATOPOIETIC ORGANS OF MICE N64-11679 03-16

SPACE FLIGHT EFFECT ON INCIDENCE OF LETHAL GENETIC MUTATION OF DROSOPHILA MELANOGASTER INSECTS N64-11680 03-16

INCIDENCE OF DOMINANT LETHAL MUTATIONS IN MALE DROSOPHILA DURING SATELLITE FLIGHT N64-11681 03-16

INFLUENCE OF SPACE FLIGHT FACTORS ON HEREDITY & DEVELOPMENT IN ACTINOMYCETES AND PLANTS N64-11682 03-16

INFLUENCE OF SPACE FLIGHT CONDITIONS INCLUDING COSMIC RADIATION ON SPRING ONION & NUTMEG FLOWER SEEDS N64-11683 03-16

SPACE FLIGHT EFFECT ON NONDISJUNCTION OF CHROMOSOMES IN DROSOPHILA INSECT N64-11684 03-16

INFLUENCE OF SPACE FLIGHT FACTORS ON SEROTONIN LEVEL IN BLOOD OF ANIMALS N64-11685 03-16

INDUCED RADIOACTIVITY IN BIOMATERIAL & INSTRUMENTS OF SATELLITES DURING SPACE FLIGHT N64-11686 03-16

MAINTENANCE OF LIFE CONDITIONS, AND MEDICAL & BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND SOVIET SATELLITE N64-11687 03-16

CHOICE OF ANIMAL & LOGISTICS FOR BIOLOGICAL EXPERIMENTS IN SATELLITE N64-11688 03-16

SPACE CABIN FOR HOUSING ANIMALS DURING SPACE FLIGHT N64-11689 03-16

METHODS FOR RECORDING PHYSIOLOGICAL DATA IN DOG LAYKA DURING SOVIET SPACE FLIGHT N64-11690 03-16

AIR REGENERATION SYSTEM FOR SEALED CAPSULE OCCUPIED BY ANIMALS DURING SPACE FLIGHTS N64-11691 03-16

SELECTION & PREPARATION OF DOGS FOR SPACE FLIGHT EXPERIMENTATION N64-11692 03-16

HARNESS FOR AFFIXING SENSORS TO DOGS FOR REGISTRATION OF PHYSIOLOGICAL PHENOMENA DURING SPACE FLIGHT N64-11694 03-16

PROVIDING FOOD AND WATER FOR DOGS DURING SPACE FLIGHT N64-11695 03-16

BIOLOGICAL & PHYSIOLOGICAL INVESTIGATIONS CARRIED OUT ON DOGS IN PRESSURIZED SPACE CABIN DURING SPACE FLIGHT N64-11696 03-16

CHLORELLA PYRENOIDOSA PROTEIN ANALYSIS FOR ESSENTIAL AMINO ACIDS - SPACE BIOLOGY N64-11697 03-16

PHYSIOLOGICAL RESPONSE OF CARDIOVASCULAR SYSTEM TO VIBRATION STRESS OF SPACE FLIGHT N64-11698 03-16

PHYSIOLOGY OF DOG RESPIRATORY AND CARDIOVASCULAR SYSTEMS DURING STRESS OF ACCELERATION N64-11699 03-16

BIOLOGICAL EFFECT OF COSMIC AND SOLAR RADIATIONS ON HUMAN BODY AT HIGH ALTITUDES N64-11700 03-16

STUDY OF BLOOD CIRCULATION OF BRAIN UNDER MODIFIED GRAVITATIONAL FIELD N64-11701 03-16

PLEXIGLAS CONTAINERS FOR BIOLOGICAL MATERIAL IN SPACECRAFT ENVIRONMENT DURING FLIGHT N64-11702 03-16

CONTAINER WITH FEEDING DEVICE FOR ANIMAL STUDY DURING SPACE FLIGHT OF MICE N64-11703 03-16

INTEGRATED PHONOCARDIOGRAPHIC AMPLIFIER FOR TRANSMISSION OF HEART MUSCLE SIGNALS FROM SPACECRAFT N64-11704 03-16

PULSE TECHNIQUE FOR RECORDING BLOOD PRESSURE OF DOGS DURING SPACE FLIGHTS - PHONOCARDIOGRAPHY N64-11705 03-16

SEISMOCARDIOGRAM CONSTRUCTION FOR CARDIOVASCULAR STUDY OF DOGS HEART ACTIVITIES DURING SPACE FLIGHT N64-11706 03-16

ELECTROCARDIOGRAPHIC METHODS AND APPLICATION TO DOG STUDY DURING SPACE FLIGHTS N64-11707 03-16

BIOELECTRIC CURRENT POTENTIALS AND OXYGEN PRESSURE IN BRAIN TISSUES DURING HYPOXIA OF SPACE FLIGHT N64-11708 03-16

GRAVITATIONAL EFFECT ON COORDINATION OF HUMAN BODY N64-11709 03-14

TYPES AND METHOD OF ATTACHING ELECTRODES IN RECORDING ELECTROCARDIOGRAM DURING SPACE FLIGHTS

N64-11710 03-16

SPACE MEDICINE AND BIOLOGY - PHYSIOLOGY, INTERNAL SYSTEMS, RADIOBIOLOGY, EXTRATERRESTRIAL LIFE, CLOSED ECOLOGICAL SYSTEM, AND SECURITY
JPRS-18985 N64-11851 03-01

SPACE BIOLOGY - PHYSIOLOGICAL EFFECTS, EXTRA-TERRESTRIAL LIFE, CLOSED ECOLOGICAL SYSTEM, SECURITY, LIFE EFFECTS, AND RADIOBIOLOGY
N64-11855 03-01

CHROMOSOME REARRANGEMENT IN MICROSPORES UNDER INFLUENCE OF SPACE FLIGHT CONDITIONS
JPRS-22585 N64-12393 03-16

SPACE BIOLOGY - ABSTRACTS OF SOVIET LITERATURE
AID-P-63-48 N64-12634 04-16

BIOLOGY OF SPACE FLIGHT - FOOD ATMOSPHERE & WASTE CONTROL, WATER RECOVERY, SURVIVAL, & RELATED SUBJECTS - ANNOTATED BIBLIOGRAPHY
SB-63-20 N64-13305 04-16

ATMOSPHERIC PHYSICS, ASTROPHYSICS, COSMIC BIOLOGY, ASTRONOMY, AND ROCKET ENGINES - PAST PROGRESS AND PROSPECTIVE DEVELOPMENTS
JPRS-23195 N64-15154 07-29

STUDY OF IRRADIATION EFFECTS ON PEROGNATHUS LONGINEMBRIS AND EVALUATION OF SUITABILITY FOR SPACE BIOLOGY RESEARCH
NASA-CR-55553 N64-15902 07-16

EXPERIMENTS & RESEARCH IN ASTRONOMY, SOLAR PHYSICS, PLANETARY ATMOSPHERES, IONOSPHERES & RADIO PHYSICS, PARTICLES & FIELDS, AND BIOSCIENCES
NASA-TM-X-51603 N64-19258 11-01

BIOLOGICAL RHYTHMS & ASTRONAUTICS
FTD-TT-64-26/1 N64-19768 12-16

SPACE BIOLOGY AND MEDICINE
JPRS-24943 N64-21866 15-16

SPACE BIOLOGY AND MEDICINE - FIRST EXPERIMENTS
N64-21867 15-16

SPACE BIOLOGY AND MEDICINE N64-21868 15-16

SPACE BIOLOGY AND MEDICINE - ASTRONAUT TRAINING
N64-21869 15-16

SPACE BIOLOGY AND MEDICINE - INTERSTELLAR TRAVEL
N64-21870 15-29

BIOLOGY IN PLANETARY & SPACE ENVIRONMENTS - AMINO ACID AND PROTEINOID STUDIES
NASA-CR-50483 N64-22775 16-16

LIFE SUPPORT IN SPACE ENVIRONMENT
NASA-TM-X-51744 N64-22784 16-16

BIOTIC AND ABIOTIC HYDROCARBON ANALYSIS FOR DETECTION OF LIFE IN SPACE
NASA-CR-53096 N64-23392 16-16

EXOBIOLOGY - ANNOTATED BIBLIOGRAPHY
NASA-CR-53806 N64-23393 16-16

PROBLEMS OF SPACE BIOLOGY
JPRS-25287 N64-23734 16-16

TRENDS OF SPACE BIOLOGY IN CONQUEST OF SPACE
N64-23735 16-16

ARTIFICIAL HIBERNATION AND SPACE BIOLOGY
N64-23756 16-16

HISTOPHYSIOLOGICAL CHANGES IN TISSUES AND INTERNAL ORGANS OF EXPERIMENTAL ANIMALS UNDER G-FORCES
N64-23764 16-16

THEORY OF RANDOM FUNCTIONS APPLIED TO SPACE BIOLOGY AND MEDICINE N64-23772 16-16

INCREASE IN PHOTOSYNTHETIC PRODUCTIVITY OF CHLORELLA CULTURE N64-23775 16-16

MATHEMATICAL ANALYSIS OF CULTIVATION OF CHLORELLA IN BIOLOGICAL CULTIVATORS WITH IRREGULAR SHAPES
N64-23778 16-16

AUTOMATIC CONTROL OF ALGAL CULTIVATION CONDITIONS
N64-23779 16-16

BURNING FOR DESTRUCTION OF ACTIVITY WASTE OF ORGANISMS N64-23780 16-16

SPACE SCIENCE - SOLAR RADIATION, FLAME REACTION KINETICS, STRATOSPHERIC PLANETARY OBSERVATORY, INFORMATION SYSTEMS, AND SPACE BIOLOGY
N64-25186 17-29

SPACE BIOLOGY AND MEDICINE - PROBLEMS ENCOUNTERED IN SPACEFLIGHT
JPRS-26231 N64-28859 20-16

CONFERENCE ON BIOASTRONAUTICS - WEIGHTLESSNESS, SPACECRAFT STERILIZATION, ASTHENOPIA IN RADAR OBSERVERS, & HYPOBARIC ADAPTATION BY PERSONNEL
FTD-TT-64-556/1&2&3&4 N64-30163 21-29

BIOASTRONAUTICAL CONTRIBUTIONS TO MEDICINE
N64-30343 22-16

ANNOTATED BIBLIOGRAPHY OF AEROSPACE MEDICINE AND BIOLOGY
NASA-SP-7011/03/ N64-32741 24-16

BIOCHEMICAL FUEL CELL

BIOCHEMICAL FUEL CELL FOR ELECTRICAL ENERGY PRODUCTION FROM METABOLIC FECES-URINE WASTE MIXTURE
NASA-CR-52813 N64-11299 02-16

BIOCHEMICAL FUEL CELLS - ELECTRO-OXIDATION OF HYDROGEN AND FORMIC ACID
QPR-5 N64-13968 05-16

GENERATION AND UTILIZATION OF HYDROGEN BY MICRO-ORGANISMS - BIOCHEMICAL FUEL CELLS
AD-428050 N64-15090 07-16

BIOCHEMICAL FUEL CELL TO AID IN BIOLOGICAL OXIDATION AND ELECTROCHEMICAL METABOLISM
N64-17391 09-16

USE OF UREA AT ANODE OF BIOCHEMICAL FUEL CELL
N64-17392 09-16

METABOLIC OXIDATION AND REDUCTION OF ENERGY PRODUCING REACTIONS AS POSSIBLE BIOCHEMICAL FUEL CELLS N64-17393 09-16

BIOCHEMICAL FUEL CELLS FOR DEGRADING HUMAN WASTE AND PRODUCING ELECTRICAL ENERGY
NASA-CR-53178 N64-17586 09-16

PERSPECTIVES ON BIOCHEMICAL ELECTRICITY - METHODS AND USES, REVIEW OF CONVENTIONAL FUEL CELLS
NASA-RP-147 N64-17710 09-16

BIOCHEMICAL FUEL CELLS, PLASMA PHYSICS - MHD AND THERMIONICS, THERMAL ENERGY STORAGE, THERMAL TRANSPORT, AND SOLAR REFLECTOR RESEARCH
NASA-CR-53557 N64-18304 10-25

BIOCHEMICAL FUEL CELL - ELECTRO-OXIDATION OF FORMIC ACID
QPR-6 N64-18610 11-16

ELECTRON TRANSFER BY ENERGY PRODUCING BIOCHEMICAL FUEL CELL REACTIONS N64-19311 12-16

HYDROGEN PRODUCTION BY MICROORGANISMS - BIOCHEMICAL FUEL CELL RESEARCH
QPR-6 N64-20121 13-16

BIOCHEMICAL FUEL CELLS FOR DEGRADING HUMAN WASTE AND PRODUCING ELECTRICAL ENERGY
NASA-CR-54231 N64-25769 17-16

BIOCHEMICAL FUEL CELL FOR ELECTROCHEMICAL ENERGY PRODUCTION
NASA-CR-54051 N64-25906 19-16

FORMIC ACID BIOANODE USING E. COLI AS BIOLOGICAL

CATALYST - BIOCHEMICAL FUEL CELL
OPR-7 N64-27731 19-06

BIOCHEMICAL FUEL CELLS FOR DEGRADING HUMAN WASTE AND PRODUCING ELECTRICAL ENERGY USING MICROORGANISMS
NASA-CR-56448 N64-27908 20-06

BIOCHEMICAL FUEL CELL DEVELOPMENT
NASA-CR-58671 N64-28880 20-06

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NASA-CR-58715 N64-29220 21-06

METHODS FOR ENERGY CONVERSION IN BIOCHEMICAL FUEL CELLS, PLASMA PHYSICS, AND THERMAL ENERGY STORAGE
NASA-CR-58809 N64-30521 22-06

BIOCHEMISTRY
SA BIOCHEMICAL FUEL CELL
CF PHYSIOCHEMISTRY
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UCRL-10934 N64-10154 01-16

BIOCHEMICAL ASPECTS OF IONIZING RADIATION METHOD OF FOOD PRESERVATION
JPRS-17591 N64-10702 02-01

BRAIN ACTIVITY ANALYSIS BY INFORMATION SYNTHESIS OBTAINED BY PHYSIOLOGICAL, BIOCHEMICAL, AND STRUCTURAL-MORPHOLOGICAL TECHNIQUES
JPRS-17717 N64-10713 02-16

BIOCHEMICAL ANALYSIS OF PSYCHOLOGICAL EFFECT ON BRAIN ACTIVITY - HUMAN BEHAVIOR
JPRS-18315 N64-10756 02-16

BIOCHEMICAL OBSERVATION OF PHYSICS
JPRS-18854 N64-10795 02-01

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NASA-CR-52607 N64-11103 02-16

DEVELOPMENT OF BIOCHEMICAL SUBSTANCES BY MICROBIOLOGICAL TRANSFORMATION FOR CHEMOTHERAPY
JPRS-20041 N64-11132 02-16

BIOCHEMICAL CHANGES RESULTING FROM IRRADIATION, HIGH TEMPERATURE, BURNS, & POLIOMYELITIS - MINERAL & PROTEIN METABOLISM, & IMMUNOLOGICAL DATA
JPRS-20298 N64-11224 02-16

BIOCHEMICAL INVESTIGATION OF BLOOD & URINE OF DOGS AFTER SPACE FLIGHT N64-11673 03-16

BIOCHEMICAL INVESTIGATION OF BLOOD OF DOGS AFTER SPACE FLIGHT N64-11674 03-16

BIOCHEMICAL SELF-REGULATION MECHANISMS OF CELL - CYBERNETICS N64-12528 04-16

BIOCHEMICAL PROBE INTO ENERGY SOURCE COMPOUNDS, ENZYME INHIBITORS, AND RADIOBIOLOGY
JPRS-19995 N64-12570 04-16

BIOSYNTHESIS OF UREA IN LIVER AND BLOOD PROTEIN FRACTION AFTER PLUTONIUM-239 INJURY N64-12571 04-16

EFFECT OF BODY TEMPERATURE IN BRAIN AND MUSCLE ON ADENOSINE TRIPHOSPHORIC ACID AND CREATINE PHOSPHATE CONTENT N64-12572 04-16

BIOGEOCHEMISTRY OF SULFUR IN LITHOSPHERE AND BIOGENIC OXIDATION OF HYDROGEN SULFIDE TO SULFUR & SULFATES
JPRS-22672 N64-13007 04-16

BIOCHEMISTRY - IONIZING RADIATION EFFECT ON MOUSE TISSUE, THERAPEUTIC AGENTS FOR RADIATION INJURIES, AND IRRADIATION EFFECT ON ANIMAL LIFESPAN
OPR-49 N64-13501 05-16

IONIZING RADIATION EFFECT ON THIOPHOSPHATE OXIDIZING ENZYME IN RAT LIVER - BIOCHEMISTRY N64-13503 05-16

ACTIVITY CHANGE OF GLUTAMIC-OXALACETIC ACID TRANSAMINASE BY ALBUMIN METABOLISM DUE TO OXYGEN DEFICIENCY - BIOCHEMISTRY N64-15039 07-16

ERYTHROCYTE COUNT FOR QUANTITATIVE EVALUATION OF HUMAN BLOOD CHANGES DURING PHYSICAL WORK AND OXYGEN DEFICIENCY N64-15044 07-16

GENERATION AND UTILIZATION OF HYDROGEN BY MICRO-ORGANISMS - BIOCHEMICAL FUEL CELLS
AD-428050 N64-15090 07-06

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UCLA-520 N64-15341 07-16

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JPRS-23296 N64-15622 07-16

BIOCHEMICAL AND PHARMACOLOGICAL STUDIES OF DIMETHYLHYDRAZINE
AMRL-TDR-63-127 N64-16584 08-16

BIOCHEMICAL MECHANISMS OF RADIATION-INDUCED DISTURBANCE OF CELL DIVISION N64-16905 09-16

RATIONAL ANALYSIS OF RELATIONSHIPS BETWEEN RADIO-CHEMICAL, BIOLOGICAL, AND CYTOCHEMICAL DATA OF RADIOBIOLOGY N64-16909 09-16

BIO-ORGANIC CHEMISTRY - METAL ION INTERACTION WITH POLYELECTROLYTES
UCRL-9519 N64-18090 10-07

CHEMISTRY OF BRAIN FUNCTION
JPRS-24151 N64-18115 10-16

BIOCHEMISTRY - BIOLOGICAL EFFECTS OF VARIOUS CHEMICALS
JPRS-24050 N64-18410 10-16

PHYSIOLOGY AND BIOCHEMISTRY OF PLANTS - EFFECT OF INDOLYL ACETIC ACID AND INDOLYL BUTYRIC ACID ON ALGAE
FTD-MT-63-49 N64-18672 11-16

BIOCHEMISTRY OF X-RAY IRRADIATION EFFECT ON BLOOD PROTEIN REACTIONS, DISULFIDE BONDS OF FIBRINOGEN, AND SYNTHESIS OF AMINO ACIDS
JPRS-24164 N64-19059 11-16

ANALYSIS OF DATA FROM BIOCHEMICAL AND PHYSIOLOGICAL TRACER EXPERIMENTS - LINEAR SYSTEM N64-19152 11-16

BIOCHEMISTRY OF PHOTOSYNTHESIS AND CARBOHYDRATE METABOLISM
UCRL-11215 N64-19463 12-01

CHEMISTRY & TECHNIQUE OF WATER PURIFICATION, STRENGTH & DUCTILITY, AND MICROBIOLOGICAL SYNTHESIS OF PROTEINS & OTHER SUBSTANCES
JPRS-24494 N64-19785 12-23

RENEWAL & LOSS OF INTESTINAL EPITHELIUM CELLS IN TURTLES STUDIED BY LABELLED TRITIATED THYMIDINE & MITOTIC INHIBITING TECHNIQUE WITH COLCHICINE N64-22077 15-16

RADIOISOTOPIC BIOCHEMICAL PROBE FOR DETECTING EXTRATERRESTRIAL LIFE
NASA-CR-55318 N64-22756 16-16

IMPROVEMENT OF BIOCHEMICAL INSTRUMENTATION
NASA-CR-51095 N64-22774 16-16

BIOCHEMISTRY - GENETIC MARKING OF PROPHAGES IN BACILLUS SUBTILIS N64-23278 16-16

CORRELATIVE STUDIES OF BIOLOGICAL MOLECULAR STRUCTURE BY HIGH RESOLUTION ELECTRON MICROSCOPY
NASA-CR-56227 N64-24110 16-16

ACTIVITY OF BLOOD SERUM ENZYME DUE TO HYPOXIA, ASPHYXIA, AND BURN SHOCK STIMULI N64-24562 17-16

CHEMISTRY, BIOCHEMISTRY, PHYSICS, AND ENGINEERING IN COMMUNIST CHINA
JPRS-24862 N64-25786 17-07

HYDROLYSIS OF AMINO ACYL-BETA-NAPHTHYLAMIDES BY PLASMA AMINOPEPTIDASES
NASA-RP-236 N64-26710 18-16

STUDIES IN BIOCHEMISTRY, NUCLEAR MEDICINE, RADIOBIOLOGY, BIOPHYSICS, AND ENVIRONMENTAL RADIATION
UCLA-12-529 N64-27343 19-16

PHYSIOLOGICAL AND BIOCHEMICAL STUDY OF IONIZING RADIATION EFFECTS ON HUMAN METABOLISM AND BIOLOGICAL MUTATION
UCRL-11387 N64-27799 19-16

ORGANIC CHEMISTRY AND SYNTHESIS OF BIOCHEMICAL COMPOUNDS FOUND IN UNIVERSE N64-27820 19-07

USE OF ELECTRON PARAMAGNETIC RESONANCE METHODS IN BIOCHEMISTRY
JPRS-26059 N64-28802 20-07

INVESTIGATION OF FUNDAMENTAL NATURE OF BIOCHEMICAL SYSTEMS IN TERRESTRIAL ORGANISMS
NASA-CR-58547 N64-28894 20-16

DEGENERATION IN BIOCHEMICAL CODE
N64-29743 21-20

FORMATION HEATS OF HYDROBROMIC & SULFURIC ACIDS AND EFFECTS OF REACTION MEDIA IN BIOCHEMISTRY AND BIOENERGETICS N64-30462 22-07

CONVERSION OF LIGHT INTO CHEMICAL ENERGY BY LIVING ORGANISMS
AFOSR-64-1192 N64-31031 22-16

HUMAN BIOCHEMICAL GENETICS
JPRS-26577 N64-32163 23-16

HEMATOLOGICAL, BIOCHEMICAL, AND MORPHOLOGICAL CHANGES IN DOGS DURING RECOVERY PERIOD FROM RADIATION SICKNESS N64-32780 24-16

PHYSIOCHEMICAL PROCESSES IN BIOCHEMISTRY AND APPLICATIONS IN INDUSTRY
JPRS-27063 N64-33344 24-16

BIOCHEMISTRY OF CONVULSIONS OF ECLAMPSIA AND EXPERIMENTAL DUPLICATION OF ECLAMPTIC INTOXICATION
NASA-TT-F-9121 N64-33400 24-16

BIOCONTROL SYSTEM
S MUSCULAR SYSTEM
S RESPIRATORY SYSTEM

BIOCOURIER PROJECT
S LIFE SCIENCE

BIOELECTRICITY
IONIZING RADIATION EFFECT ON LIVER PROTEIN & BIOELECTRIC CURRENT IN MUSCLES
JPRS-18760 N64-11346 02-16

BIOELECTRIC CURRENT POTENTIALS AND OXYGEN PRESSURE IN BRAIN TISSUES DURING HYPOXIA OF SPACE FLIGHT
N64-11708 03-16

ELECTRONIC COMPUTER ANALYSIS OF BIOELECTRIC CURRENT IN BRAIN - CYBERNETICS N64-12517 04-16

BIOELECTRIC ACTIVITY OF VISUAL AND PARIETAL REGIONS OF CEREBRAL CORTEX STUDY BY X-RAY
FTD-TT-63-231 N64-22646 15-16

BIOELECTRIC STIMULATION INSTRUMENT FOR CONTROLLING FUNCTIONS OF NERVE-MUSCULAR SYSTEMS
FTD-TT-62-1777/1 N64-23292 16-20

ELECTROMYOGRAM MEASUREMENT OF BIOELECTRIC CURRENT AS MEASURE OF HUMAN MUSCLE TONUS AND EFFECTS OF WEIGHTLESSNESS AND INCREASED ACCELERATION STRESS
N64-23661 16-16

BIOELECTRIC ACTIVITY OF CEREBRAL CENTERS UNDER INFLUENCE OF G-FORCES N64-23765 16-16

BIOELECTRIC RECORDING OF NERVOUS SYSTEM RESPONSES
FTD-TT-63-1194/1&2&4 N64-25655 17-16

NEUROPHYSIOLOGY - MICROELECTRODE TAPPING FOR BIOELECTRIC MEASUREMENTS OF HUMAN MOTOR NEURONS
N64-30240 22-16

BIOGENESIS
CF ABIOGENESIS
CF LIFE
POSSIBLE ROLE OF CRYSTALS IN ORIGIN OF LIFE - BIOGENESIS
UR-656 N64-32074 23-16

BIOINSTRUMENTATION
AUTOMATIC OPTIMUM FREQUENCY STIMULATOR AS MODEL FOR AUTOMATICALLY CONTROLLED TREATMENT-DIAGNOSTIC EQUIPMENT - CYBERNETICS N64-12530 04-16

MINIATURE MULTICHANNEL, MICROPOWERED BIO-TRANSENSOR - BODY TEMPERATURE, RESPIRATION RATE, CARDIOELECTRIC ACTIVITY, & BLOOD PRESSURE
SID-63-633 N64-13722 05-15

RESPONSE OF CHIMPANZEE TO SEVERE ENVIRONMENTAL STRESS
ARL-TDR-63-26 N64-14044 05-16

INSTRUMENTATION TO MEASURE NYSTAGMUS PRODUCED BY ANGULAR ACCELERATION
NASA-CR-55617 N64-15352 07-16

BIOINSTRUMENTATION CONTROL CENTER FOR VESTIBULAR RESEARCH PROGRAMS ON THE HUMAN DISORIENTATION DEVICE
NASA-CR-55615 N64-15353 07-14

PHYSIOLOGICAL REACTIONS TO RADIATION & BIOTELEMETRY
JPRS-24301 N64-18972 11-16

BIBLIOGRAPHY OF BIOSENSORS
NASA-CR-56347 N64-24116 16-16

BIOINSTRUMENTATION FOR MONITORING STUDY IN HUMAN PHYSIOLOGY IN CLOSED ECOLOGICAL SYSTEMS
N64-24622 17-15

BIOELECTRIC RECORDING OF NERVOUS SYSTEM RESPONSES
FTD-TT-63-1194/1&2&4 N64-25655 17-16

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN AND ENGINEERING - BIOINSTRUMENTATION
NASA-CR-76 N64-26609 18-16

INSTRUMENTATION FOR SIMULTANEOUS RECORDING OF BLOOD PRESSURE CURVE, PHONOCARDIOGRAM, AND ELECTROCARDIOGRAM
JPRS-25897 N64-27125 19-16

NORMAL VARIATIONS OF VECTORCARDIOGRAM COMPONENTS IN DOG, CAT, AND RABBIT
JPRS-25599 N64-27318 19-16

BIOINSTRUMENTATION - BIOACOUSTIC STIMULATOR, ELECTROGASTROGRAPH, MICROWAVE THERAPY APPARATUS, AND PROGRAM TIMER
JPRS-26037 N64-27927 20-15

AEROSPACE MEDICAL RESEARCH APPLIED TO OTHER MEDICAL FIELDS - PHYSIOLOGICAL RESPONSE TO RADIATION, WEIGHTLESSNESS, ACCELERATION, AND BIOINSTRUMENTATION
NASA-RP-306 N64-29339 21-16

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN - MECHANORECEPTORS, PHOTORECEPTORS, CHEMORECEPTION, & THERMORECEPTION
NASA-CR-58560 N64-29546 21-16

INSTRUMENT TO PREDICT PHYSIOLOGICAL & SUBJECTIVE RESPONSE OF HUMANS TO TEMPERATURE DIFFERENCES
REPT.-6 N64-30629 22-15

MONITORING ELECTROCARDIOGRAMS ON ACTIVELY EXERCISING SUBJECTS
SAM-TDR-64-38 N64-31050 22-16

PHYSIOLOGICAL STUDIES - COMPUTER PROCESSING OF

DATA, BIOINSTRUMENTATION, EFFECTS OF HYPOXIA, AND ELECTROPHYSIOLOGY
JPRS-26444 N64-31536 23-16

BIOLOGICAL CELL
SA CHROMOSOME
RECOVERY OF REPRODUCTION CAPACITY OF X RAY IRRADIATED YEAST CELLS
JPRS-21619 N64-10118 01-16

BIOLOGICAL CELL SUBSTANCE CHANGES FROM INJURY AND EXCITATION - STAINABILITY
JPRS-21894 N64-10517 01-16

BIOCHEMICAL TEMPLATING OF DESOXYRIBONUCLEIC ACID-RIBONUCLEIC ACID INTO PROTEIN
JPRS-17811 N64-10566 01-16

FUNCTIONAL SIGNIFICANCE OF SULFHYDRYL GROUPS IN CELL MEMBRANE
UR-633 N64-10666 01-16

IDENTIFICATION OF CELL WALL SUBSTANCES IN ALGAE & FUNGI - SPACE FOOD FOR ASTRONAUTS
ANRL-TDR-63-72 N64-11461 03-16

ACTION MECHANISM OF MEDICINAL SUBSTANCES ON HUMAN CELLS AND TISSUES AND TREATMENT OF ENSUING ILLNESS
JPRS-22292 N64-11781 03-16

CELLULAR AUTOMATIC CONTROL OF ENZYMATIC TRANSFER OF NUCLEOSIDE SUBSTANCES N64-12510 04-16

BIOCHEMICAL SELF-REGULATION MECHANISMS OF CELL - CYBERNETICS N64-12528 04-16

RADIATION EFFECT ON SPERM MUTATION, YEAST CELL RESTORATION, & LIVER REGENERATION, AND SHIELDING ACTION OF CYSTAMINE
JPRS-22083 N64-12793 04-16

CYTOLOGICAL EXAMINATION OF RADIOSENSITIVITY OF BONE MARROW & LYMPH NODE CELLS IN DIFFERENT SPECIES OF IRRADIATED MAMMALS
JPRS-22778 N64-13230 04-16

CELL REACTIONS UNDER EXTREME ENVIRONMENTAL CONDITIONS
JPRS-22613 N64-13692 05-16

CRYOGENIC TEMPERATURE & ULTRASONIC VIBRATION EFFECT ON ACTOMYOSIN N64-13693 05-16

INCREASED DESOXYRIBONUCEASE ACTIVITY UNDER X-RAY IRRADIATION IN LIVER & SPLEEN N64-13694 05-16

CYSTEAMING PROTECTIVE ACTION AGAINST RADIATION INJURY N64-13695 05-16

REPARATIVE REGENERATION OF CUTANEOUS & INTESTINAL EPITHELIA AT ANAL JUNCTION AFTER THERMAL INJURY DUE TO X-RAY IRRADIATION OF RATS N64-14252 06-16

CHANGES IN TRANSITIONAL EPITHELIUM IN RATS AFTER X-RAY IRRADIATION N64-14253 06-16

KINETIC THEORY OF ION TRANSPORT ACROSS BIOLOGICAL CELL SURFACES
NADC-MA-6325 N64-15051 07-16

CHEMICAL COMPOSITION AND DIGESTIBILITY OF ALGAL CELL WALLS
IITRI-L6002-4 N64-15586 07-16

SEMIAUTOMATIC QUANTITATIVE DETERMINATION OF TRACE ELEMENTS IN BIOLOGICAL MATERIALS BY ACTIVATION ANALYSIS & STUDIES ON BIVALVE MOLLUSK
EUR-674.E N64-15672 07-16

FACTORS AFFECTING CELLULAR OXYGEN CONSUMPTION AT LOW OXYGEN TENSIONS
SAM-TDR-63-68 N64-15741 07-16

EFFECT OF WEIGHTLESSNESS ON SINGLE CELLS
NASA-CR-55656 N64-16326 08-16

CELL DAMAGE IN RADIATION REACTION OF ANIMAL ORGANISM N64-16906 09-16

OXYGEN EFFECTS ON SURVIVAL AND RESTORATION RATES IN YEAST CELLS DUE TO IONIZING RADIATION - RADIO-BIOLOGY
JPRS-23945 N64-18206 10-16

GLIAL AND OTHER NONNEURONAL CELL CONTROL OF NEURON ACTIVITY - RETINA N64-18832 11-16

LUMINESCENCE CAUSED BY PROTEIN COMPONENT OF RAT LIVER CELLS UNDER ULTRAVIOLET RAY EXCITATION
JPRS-24605 N64-20232 13-16

NUCLEAR MEMBRANE STRUCTURE OF NERVE CELL
JPRS-24607 N64-20233 13-16

RENEWAL & LOSS OF INTESTINAL EPITHELIUM CELLS IN TURTLES STUDIED BY LABELLED TRITIATED THYMIDINE & MITOTIC INHIBITING TECHNIQUE WITH COLCHICINE N64-22077 15-16

BEHAVIOR OF BIOLOGICAL CELLS & SYSTEMS UNDER CONDITIONS OF WEIGHTLESSNESS
NASA-CR-56482 N64-22420 15-16

FREE STREAM FRACTIONATION OF CELLS IN RAT BONE MARROW N64-22857 16-16

RELATIONSHIP BETWEEN PHYSIOLOGICAL STATE AND MEDIUM DURATION OF FLUORESCENCE OF BACTERIOCHLOROPHYLL IN CELLS N64-23434 16-16

CULTIVATION OF UNICELLULAR ORGANISMS FOR USE IN CLOSED ECOLOGICAL SYSTEM N64-23781 16-16

PHYSIOLOGICAL EFFECTS OF ARGON, HELIUM, AND RARE GASES ON CELLULAR SYSTEMS
AD-600641 N64-25925 18-16

DOSE-DEPENDENT DEPRESSION OF DEOXYRIBONUCLEIC ACID STUDY BY X-RAY IRRADIATION AND BROMURACIL DEOXYRIBOSIDE IN MAMMALIAN CELLS
NASA RP-245 N64-27352 19-16

CELL REGULATION PROBLEMS - LECTURES IN MOLECULAR BIOLOGY
JPRS-26558 N64-30777 22-16

ELECTROMETRIC AMPLIFIER FOR USE WITH HIGH RESISTANCE GLASS MICROELECTRODES IN MEASURING IONIC ACTIVITY IN MUSCLE AND NERVE CELLS N64-31545 23-16

RECIRCULATION AND LIFESPAN OF SMALL LYMPHOCYTES IN RAT
AAL-TDR-63-17 N64-31629 23-16

EFFECTS OF SOUND WAVES AND NUCLEIC ELEMENTS ON CELLS
JPRS-26712 N64-32954 24-16

RELATION BETWEEN NUCLEAR ELEMENTS AND CYTOPLASM - BIOLOGICAL CELL N64-32956 24-16

EFFECTS OF IONIZING RADIATION ON CENTRAL NERVOUS SYSTEM IN VIVO AND AT THE CELLULAR LEVEL
NASA-CR-58974 N64-33095 24-16

GRAVITY AND RADIATION EFFECTS ON CELL GROWTH AND ULTRASTRUCTURE N64-33453 24-16

BIOLOGICAL EFFECT
CF PHYSIOLOGICAL RESPONSE
CHEMICAL & BIOLOGICAL ACTION OF ULTRASONIC WAVES
JPRS-21-590 N64-10198 01-16

COMPARATIVE BIOLOGICAL EFFECT OF FAST NEUTRONS AND X-RAYS UPON MOUSE REPRODUCTIVE SYSTEM
JPRS-21521 N64-10326 01-16

EFFECT OF VIBRATION, ACCELERATION, WEIGHTLESSNESS & BIOLOGICAL RHYTHMS ON MAN IN SPACE
JPRS-18627 N64-10503 01-16

MANHATTAN PROJECT WORK ON BIOLOGICAL EFFECTS OF EXTERNAL RADIATION N64-10936 02-16

BIOLOGICAL EFFECT OF COSMIC AND SOLAR RADIATIONS ON HUMAN BODY AT HIGH ALTITUDES N64-11700 03-16

BIOLOGICAL EFFECT OF MICRONAVES ON ORGANISMS
JPRS-22580 N64-12357 03-16

BIOLOGICAL EFFECT OF IONIZING RADIATION ON RATS
JPRS-19163 N64-12432 04-16

BIOLOGICAL EFFECT OF LOW DOSES OF RADIOACTIVE ISOTOPES - SODIUM-24 AND PHOSPHORUS-32 IN RATS, RABBITS, AND DOGS N64-12433 04-16

MECHANISM OF BIOLOGICAL ACTION OF PULSED MAGNETIC FIELD N64-12499 04-16

BIOLOGICALLY RESISTANT PIGMENT FROM AEROBIC WASTE DIGESTERS
SAM-TDR-63-57 N64-13852 05-16

TOTAL BODY X-IRRADIATION OF BIRDS OF DIFFERENT SPECIES
JPRS-23169 N64-15153 07-16

BIOLOGICAL EFFECT OF MAGNETIC FIELD ON DROSOPHILA
NASA-CR-55625 N64-15346 07-16

BIOLOGICAL EFFECTS OF GALACTIC COSMIC RADIATION
RM-3043-PR N64-16474 08-28

PRIMARY AND INITIAL PROCESSES OF BIOLOGICAL EFFECT OF RADIATION
JPRS-23426 N64-16902 09-16

NONTHERMAL EFFECTS OF ALTERNATING ELECTRICAL FIELDS ON BIOLOGICAL STRUCTURES & SYSTEMS
AD-406795 N64-17330 09-23

BIOCHEMISTRY - BIOLOGICAL EFFECTS OF VARIOUS CHEMICALS
JPRS-24050 N64-18410 10-16

COMPUTER ANALYSIS OF BIOLOGICAL HAZARDS OF SPACE RADIATION - DEVELOPMENT OF FORTRAN PROGRAMS
AMRL-TDR-64-11 N64-18649 11-23

RADIATION AND RADIOISOTOPES EFFECTS ON BIOLOGICAL SYSTEMS - ANNOTATED BIBLIOGRAPHY
TID-3098, BK. 1 N64-19035 11-16

LASERS AND THEIR BIOLOGICAL EFFECTS
OR-3885 N64-21784 15-25

BIOLOGICAL RESPONSE TO CONTINUOUS ACCELERATIONS IN ORDER OF MAGNITUDE OF MICRO-G
NASA-CR-51180 N64-22776 16-16

BIOLOGICAL EFFECT OF COSMIC RADIATION AND RADIATION PROTECTION MEASURES N64-23744 16-16

RELATION BETWEEN CHEMICAL STRUCTURE OF SUBSTANCE AND BIOLOGICAL EFFECT
FTD-MT-64-581/1&4 N64-26736 18-16

INFLUENCE OF STRONG MAGNETIC FIELDS ON BIOLOGICAL PROCESSES IN MONKEYS
NASA-CR-56886 N64-27890 20-16

ELECTRICAL PARAMETERS OF BIOLOGICAL TISSUES IN MICROWAVE RANGE
JPRS-26191 N64-28092 20-16

NONTHERMAL EFFECT OF ALTERNATING ELECTRICAL FIELDS ON BIOLOGICAL STRUCTURES
AD-600263 N64-28812 20-16

DISTRIBUTION AND BIOLOGICAL EFFECTS OF RADIOACTIVE CONTAMINATION OF SEAS AND OCEANS
JPRS-26002 N64-31188 22-12

ANNOTATED BIBLIOGRAPHY ON PHYSICAL CHARACTERISTICS OF THERMAL RADIATION AND RADIATION SOURCES, AND PROTECTION AGAINST BIOLOGICAL EFFECTS
TDCK-33500 N64-32018 23-16

BIOLOGICAL EFFECT OF HIGH BLAST-FREE PRESSURE ON ALBINO RATS
DVL-359 N64-32347 23-16

BIOLOGICAL EFFECTS OF HIGH ENERGY PROTON IRRADIATION OF HUMANS AND OTHER ANIMALS
NASA-CR-5887 N64-33195 24-16

BIOLOGICAL MODEL
PHYSICAL ANALOGS OF BIOLOGICAL LAWS AND SYSTEMS
AD-604369 N64-32865 24-16

BIOLOGY /GEN/
SA HYDROBIOLOGY
SA MICROBIOLOGY
SA PROTOBIOLOGY
SA RADIOBIOLOGY
PAPERS ON EXPERIMENTS IN BIOCHEMISTRY, BIOLOGY, AND ORGANIC CHEMISTRY
UCRL-10934 N64-10154 01-16

LITERATURE REVIEW OF TELEVISION MICROSCOPY IN BIOLOGY AND MEDICINE
JPRS-18229 N64-10501 01-16

TELEMETRY PROBLEMS IN MEDICAL AND BIOLOGICAL RESEARCH
JPRS-17672 N64-10629 01-16

BIOMETRICS & THE BIOLOGICAL SCIENCES
JPRS-18392 N64-11043 02-16

MATHEMATICAL PHYSICS, CHEMISTRY, GEOLOGY, BIOLOGY, AND TECHNOLOGY
JPRS-19569 N64-11073 02-01

TRANSLATIONS FROM ACADEMY OF SCIENCES USSR - BIOLOGICAL SERIES
JPRS-19571 N64-11859 03-16

SYSTEMIC ORGANIZATION IN THEORETICAL BIOLOGY
JPRS-22228 N64-11869 03-16

BIOLOGICAL ASPECTS OF CYBERNETICS
JPRS-19637 N64-12507 04-01

APPLICATION OF CYBERNETICS TO BIOLOGY AND MEDICINE N64-12509 04-16

MATHEMATICAL ANALYSIS OF BIOLOGICAL DATA - CYBERNETICS N64-12516 04-16

BIOLOGICAL ANALYZER SYSTEMS STUDY - CYBERNETICS N64-12520 04-16

ABSTRACTS OF ATOMIC ENERGY COMMISSION-SPONSORED BIOLOGICAL AND MEDICAL RESEARCH
TID-4201 N64-12811 04-16

DYNAMIC PROGRAMMING OF TIMING OF MIDCOURSE GUIDANCE MANEUVERS OF SPACECRAFT FOR MINIMIZING FINAL ERROR
NASA-CR-53000 N64-13281 04-21

BIOLOGICAL REGENERATION SYSTEM AS COMPONENT OF LIFE SUPPORT SYSTEM FOR LUNAR BASE N64-13714 04-16

RELATION OF CYBERNETICS TO BIOLOGY, MEDICINE, ECONOMICS, AND ENGINEERING
JPRS-22931 N64-14142 05-16

RELATIONSHIPS BETWEEN BIOLOGY & CYBERNETICS
JPRS-22963 N64-14143 05-16

PROSPECTS FOR USE OF LASERS IN BIOLOGY & MEDICINE
JPRS-22994 N64-14149 05-16

PHYSICS & CHEMISTRY OF OCEAN, MARINE BIOLOGY & GEOLOGY, COASTAL OCEANOGRAPHY, AND OCEANOLOGICAL RESEARCH
JPRS-23025 N64-14524 06-12

OPERATIONAL CALCULUS IN TWO VARIABLES FOR APPLICATION TO BIOLOGICAL PROBLEMS N64-15209 07-20

ELECTRONIC SIMULATION OF BIOLOGICAL CLOCK - ANIMAL STUDY AND STATISTICAL ANALYSIS
ASD-TDR-63-136 N64-15592 07-16

BIOLOGY AND STRATIGRAPHY OF BOTTOM SEDIMENTS IN EQUATORIAL PACIFIC
JPRS-23403 N64-15730 07-16

BIBLIOGRAPHY OF BIOREGENERATING SYSTEMS FOR EXTRATERRESTRIAL HABITATION

AMRL-TDR-63-121 N64-16095 07-16

CYBERNETICS IN BIOLOGY, MEDICINE, AND SPACE FLIGHT
JPRS-23749 N64-17244 09-16

BIOLOGY - DISCUSSION ON CELL-CELL INTERACTIONS, MEMBRANE STRUCTURE, ENZYMATIC REACTIONS, AND PHYSICAL CHEMISTRY OF INTERFACES
NASA-CR-53290 N64-17601 09-16

INFORMATION PROCESSING BY BIOLOGICAL SYSTEMS AND MACHINES - BIONICS
ASD-TDR-63-946 N64-18826 11-16

MULTILEVEL APPROACH TO SIMULATION OF BIOLOGIC SYSTEMS - HEURISTIC THEOREM PROVING
N64-18838 11-16

SPACE SCIENCES PROGRAM - PHYSICAL SCIENCES, BIOLOGICAL SCIENCES, ENGINEERING, AND BUSINESS ADMINISTRATION N64-19005 11-01

SPACE SCIENCES PROGRAM - PHYSICAL SCIENCES, BIOLOGY, ENGINEERING, & BUSINESS ADMINISTRATION
N64-19096 11-01

BIOLOGY OF AGING USING IONIZING RADIATION STUDIES
DML-854/T-340/ N64-21591 15-16

BIOELECTRONICS - HALL EFFECT AND ELECTROMAGNETIC EFFECTS ON NERVOUS SYSTEM
REPT.-63-27 N64-21680 15-16

MEDICAL AND BIOLOGICAL RESEARCH IN USSR
JPRS-24638 N64-21851 15-16

BIOLOGICAL CONTAMINATION BY RADIOACTIVE ISOTOPES
FTD-TT-63-664/1 N64-22049 15-16

BIONICS - BIBLIOGRAPHY OF BIOLOGICAL RECEPTORS AND REGULATORS AND APPLICATION TO ENGINEERING DESIGN
SRB-63-2 N64-22372 15-16

EVOLUTION OF INORGANIC, ORGANIC, AND BIOLOGICAL MATERIALS AND ORIGIN OF LIFE
NASA-TM-X-54008 N64-22754 16-16

MEDICAL AND BIOLOGICAL RESEARCH
UCRL-11184 N64-22851 16-16

BIOLOGY AND MEDICINE
FTD-TT-63-1013/162 N64-23694 16-16

BIOLOGICAL CHARACTERIZATION OF PHYSICAL CONDITIONS OF SPACE FLIGHT N64-23736 16-16

BIOLOGICAL AND PHYSIOLOGICAL STUDIES IN ROCKET AND SATELLITE FLIGHTS N64-23737 16-16

BIOLOGICAL RESEARCH IN SPACE FLIGHT
N64-23746 16-16

LONG-RANGE TECHNOLOGICAL FORECASTING IN BIOLOGICAL AND MEDICAL SCIENCES
AD-436723 N64-24070 16-16

ANNOTATED BIBLIOGRAPHY ON AEROSPACE MEDICINE AND BIOLOGY
NASA-SP-7011 N64-25948 18-16

BIBLIOGRAPHY OF BIOLOGICAL, CHEMICAL, GEOLOGICAL MATHEMATICAL, PHYSICS, AND ENGINEERING ABSTRACTS
N64-28140 20-10

ELECTRONIC EQUIPMENT FOR MEDICAL & BIOLOGICAL RESEARCH
FTD-TT-63-1188 N64-28175 20-15

BIOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL STUDIES OF CENTRAL NERVOUS SYSTEM - CONDITIONED REFLEX
JPRS-26060 N64-28446 20-16

RESEARCH PROJECTS IN BIOLOGY, PLASMA PHYSICS, RADIATION, PROPELLANTS, AND SOLID STATE PHYSICS
NASA-CR-58625 N64-28891 20-23

NUMERICAL INVERSION OF MELLIN TRANSFORM - COMPUTER PROGRAMMING FOR SOLVING COMPLEX EQUATIONS ARISING IN BIOLOGY AND MEDICINE
RM-4179-NIH N64-30796 22-20

NEUTRON GENERATOR APPLICATIONS - NUCLEAR PHYSICS AND CHEMISTRY, CHEMICAL ENGINEERING, BIOLOGY, AND RADIATION MEDICINE N64-31788 23-23

SUMMARY OF PAPERS PRESENTED AT CONFERENCE ON BIOLOGICAL AND MEDICAL RESEARCH RELATED TO CHEMISTRY
JPRS-26845 N64-32164 23-16

COMPUTER APPLICATIONS IN MEDICINE AND BIOLOGICAL SCIENCES - BIBLIOGRAPHY
SP-1025/001/00 N64-32324 23-16

ANNOTATED BIBLIOGRAPHY ON AEROSPACE MEDICINE AND BIOLOGY
NASA-SP-7011/02/ N64-32407 23-16

ABSTRACTS ON INVERTEBRATE AND VERTEBRATE BEHAVIOR, PHYSIOLOGY, ENDOCRINOLOGY, GENETICS, EMBRYOLOGY, EVOLUTION, AND CELL BIOLOGY
NASA-CR-59307 N64-33513 24-16

BLOOD POLAROGRAPHY FOR USE IN BIOLOGICAL AND MEDICAL STUDIES
JPRS-27237 N64-33675 24-16

BIOMECHANICS
PHYSICAL ANALOGS OF BIOLOGICAL LAWS AND SYSTEMS
AD-604369 N64-32865 24-16

BIOMETRICS
S REGRESSION ANALYSIS

BIONICS
CF CYBERNETICS
BIONICS - ENGINEERING CYBERNETICS USING KNOWLEDGE OF BIOLOGICAL PROCESSES FOR SOLVING ENGINEERING TASKS
JPRS-17500 N64-10690 02-16

BIONICS - PROBLEMS, ACHIEVEMENTS, OUTLOOK
FTD-TT-63-557/164 N64-12845 04-16

PHYSIOLOGY, BIOPHYSICS, & BIONICS
JPRS-23022 N64-14523 06-16

INFORMATION PROCESSING BY BIOLOGICAL SYSTEMS AND MACHINES - BIONICS
ASD-TDR-63-946 N64-18826 11-16

MATHEMATICS OF BIONICS, COMPUTER HARDWARE IN MEDICAL ELECTRONICS, AND IN BIOENGINEERING
N64-18827 11-16

INFORMATION THEORY - LOGIC OF MECHANISM AND THEORY OF SIMPLIFICATION - BIONICS
N64-18828 11-16

MOLECULAR BIONICS N64-18837 11-16

BIONICS - ITS METHODS AND RESULTS
JPRS-24971 N64-21289 14-16

BIONICS - BIBLIOGRAPHY OF BIOLOGICAL RECEPTORS AND REGULATORS AND APPLICATION TO ENGINEERING DESIGN
SRB-63-2 N64-22372 15-16

BIONICS - SELF-ADAPTIVE SYSTEMS, COMMUNICATION, AND CONTROL IN ANIMALS & ELECTRONIC MACHINES
JPRS-25494 N64-26257 18-16

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN AND ENGINEERING - BIOINSTRUMENTATION
NASA-CR-76 N64-26609 18-16

AEROSPACE MEDICINE AND ANIMAL SYSTEMS IN BIONICS
JPRS-25765 N64-27059 19-16

PHYSICAL ANALOGS OF BIOLOGICAL LAWS AND SYSTEMS
AD-604369 N64-32865 24-16

BIOPHYSICS
SA RADIOBIOLOGY
RESEARCH IN RADIOBIOLOGY, GENETICS, RADIATION MEDICINE, AND BIOPHYSICS
JPRS-21868 N64-10328 01-16

BIOPHYSICS, CHEMISTRY & CYTOLOGY FOR DETERMINATION OF LIFE PHENOMENA
JPRS-21966 N64-10329 01-16

BIOCHEMICAL OBSERVATION OF PHYSICS
JPRS-18854 N64-10795 02-01

SIX-CHANNEL ELECTROCARDIOGRAPH FOR RECORDING BIOPHYSICAL PARAMETER OF HUMAN SYSTEM
JPRS-18859 N64-10799 02-15

BIOPHYSICS - DEFINITION & METHODS OF INVESTIGATION
JPRS-22830 N64-13353 04-16

PHYSIOLOGY, BIOPHYSICS, & BIONICS
JPRS-23022 N64-14523 06-16

NONPOLARIZING ELECTRODES FOR DETECTING SLOWLY VARYING BIOPOTENTIALS IN INTERNAL CAVITIES - BIOPHYSICS
NASA-TT-F-199 N64-17744 09-15

COMMUNICATION BIOPHYSICS - HEARING
N64-17884 10-16

BIOPHYSICS OF AMINO ACIDS & PROTEINS
JRRS-24046 N64-18517 11-16

BIOPHYSICS OF POLYMERS, NUCLEIC ACIDS, AND BRAIN NEURONS
JPRS-24261 N64-19437 12-16

DYNAMIC PHENOMENA IN MICROSPHERES FROM THERMAL PROTEINOID
N64-19825 12-16

DOSIMETRY, RADIATION DISTRIBUTION, RADIATION PROTECTION, RADIOBIOLOGY, AND BIOPHYSICS
NYO-3740-1 N64-21035 14-23

TELEMETRIC BIOMETRY OF ASTRONAUTS DURING SPACE FLIGHT
N64-25166 17-14

ULTRASONIC WAVES AND MOLECULAR BIOPHYSICS
JPRS-25651 N64-26086 18-16

BIOPHYSICS RESEARCH IN USSR
JRRS-25652 N64-28034 20-16

BIOPHYSICS - THERMODYNAMICS OF PHOTOSYNTHESIS, AND TRANSITION PROBABILITIES IN MOLECULES WITH CONJUGATE SYSTEM OF PI-ELECTRONS
JPRS-25733 N64-28309 20-16

BIOSATELLITE
SPACE BIOLOGY, BIOLOGICAL EXPERIMENTATION ON SATELLITES, AND RELATED GROUND EXPERIMENTS
NASA-TT-F-174 N64-11665 03-01

MAINTENANCE OF LIFE CONDITIONS, AND MEDICAL & BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND SOVIET SATELLITE
N64-11687 03-16

CHOICE OF ANIMAL & LOGISTICS FOR BIOLOGICAL EXPERIMENTS IN SATELLITE
N64-11688 03-16

BIOSATELLITE PROJECT - MUTATION BY RADIATION AND BIOPHYSICAL STUDIES
NASA-CR-50046 N64-22757 16-16

BIOSIMULATION
CF AEROSPACE MEDICINE
CF ARTIFICIAL INTELLIGENCE
MULTILEVEL APPROACH TO SIMULATION OF BIOLOGIC SYSTEMS - HEURISTIC THEOREM PROVING
N64-18838 11-16

PERCEPTRON APPLICATIONS IN NEURAL NET THEORY AND BIOSIMULATION
REPT.-4 N64-32860 24-20

BIOT METHOD
CALCULATION OF TRANSIENT TEMPERATURES IN TURBINE BLADES AND TAPERED DISKS USING BIOT VARIATIONAL METHOD
ARC-CP-617 N64-28255 20-13

BIOTECHNOLOGY
ANNOTATED BIBLIOGRAPHY ON HUMAN SCIENCES IN INDUSTRY - ERGONOMICS
N64-28104 20-14

BIPROPELLANT
RELATION OF CHEMICAL COMPOSITION TO IGNITION CHARACTERISTICS OF HYPERGOLIC LIQUID BIPROPELLANTS
N64-10005 01-16

COMBUSTION INSTABILITY IN BIPROPELLANT FUELED ROCKET ENGINES
N64-28195 20-16

BIRD
HIBERNATION IN MAMMALS AND BIRDS
AAL-TDR-63-3 N64-13661 05-14

TOTAL BODY X-IRRADIATION OF BIRDS OF DIFFERENT SPECIES
JPRS-23169 N64-15153 07-14

AVIDIN CONTENT OF EGG WHITES FOR VARIOUS SPECIES OF BIRDS
N64-15802 07-14

AIRFLOW DIRECTION ON WING OF FLYING BIRD OBSERVED BY VANE AND SILK THREAD METHOD - AERODYNAMICS
JPRS-24357 N64-18980 11-14

HEARTBEAT MEASUREMENT OF BIRD EMBRYOS WITH MICROMETEORITE TRANSDUCER AS BALLISTOCARDIOGRAPH
NASA-SP-5007 N64-19015 11-16

PURE FLUID SYSTEMS, COMPONENTS, AND CONTROL DEVICES - BIRD HAZARD TO AIRCRAFT - CURRENT PROJECTS IN MECHANICS, HYDRODYNAMICS, AERODYNAMICS AND THERMODYNAMICS
DME/NAE-1964 /2/ N64-32015 23-11

BIREFRINGENCE
DYNAMIC STRAINS IN RODS MEASURED WITH BIREFRINGENT STRIPS
BRL-1211 N64-12383 03-10

STRESS & BIREFRINGENCE DURING CRYSTALLIZATION OF NATURAL RUBBER IN RELAXED STATE
ONR-TR-54 N64-12853 04-23

BIREFRINGENCE AT CONSTANT FIELD INTENSITY AND VARIABLE TEMPERATURE OF POTASSIUM DIHYDROGEN & DI-DEUTERIUM PHOSPHATE CRYSTALS
E-T-G-63-20 N64-13030 04-25

MECHANICAL AND PHOTOELASTIC BEHAVIOR OF BIREFRINGENT BAR SUBJECTED TO VIBRATIONS
N64-16205 08-23

DYNAMIC BIREFRINGENCE OF STRUCTURAL CHANGES AND MECHANICAL PROPERTIES OF UNSATURATED POLYOLEFIN HYDROCARBONS
ONR-TR-65 N64-16437 08-23

CHROMATIC POLARIZATION PRODUCED BY COMPRESSED GLASS - BIREFRINGENT PROPERTIES OF CRYSTALS
RSIC-231 N64-28529 20-13

MEASUREMENT OF BIREFRINGENCE OF OPTICAL GLASS
RSIC-236 N64-28531 20-14

DYNAMIC FRINGE PREDICTION IN BIREFRINGENT VISCOELASTIC MATERIALS
GALCIT-SM-63-25 N64-30496 22-13

TRANSVERSE WAVE PHOTOTUBE AND BIREFRINGENT DISCRIMINATOR IN LIGHT FREQUENCY MODULATION DETECTION
IER-5 N64-31705 23-13

EXPERIMENTAL STUDY OF TWO-DIMENSIONAL ELASTICITY USING BIREFRIGENCE OF GLASS SUBJECTED TO STRESSES
RSIC-262 N64-31930 23-13

AUTOMATIC DETERMINATION OF MELTING POINT OF CRYSTALLINE SOLIDS BASED ON BIREFRINGENCE CHANGE AS ANISOTROPIC FORM CHANGES TO ISOTROPIC MELT
GE/EE/63-17 N64-32174 23-07

DETERMINATION OF STRESS FIELD IN VISCOELASTIC MODEL BY FRINGE ORDER AND ISOCLINIC ANGLE OBSERVATION
N64-33607 24-13

MICROWAVE CIRCUIT DEVICES TO CONTROL COHERENT OPTICAL BEAMS USING BIREFRINGENT CRYSTALS - LASER RADIATION
RM-2342 N64-33039 24-25

BIREFRINGENT FILTER AND APPLICATION IN SOLAR PHYSICS - CORONA OBSERVATION
AD-446281 N64-33859 24-28

BISMUTH
PHOTO MAGNETO ELECTRIC STUDY OF SINGLE CRYSTALS OF CADMIUM SULFIDE AND THIN-ROLLED FOILS OF BISMUTH
RADC-TDR-63-117 N64-11888 03-28

ELECTRICAL RESISTANCE OF BISMUTH, YTTERBIUM, AND DYSPROSIUM
UCRL-11220 N64-17708 09-25

THERMOELECTRIC POWER OF ANNEALED AND COLD WORKED BISMUTH N64-17967 10-23

PHOTOMAGNETOELECTRIC DETECTOR OF CADMIUM SULFIDE SINGLE CRYSTALS AND TRANSPORT PROPERTIES OF ROLLED THIN BISMUTH FOIL
RADC-TDR-64-349 N64-28560 20-25

ROLE OF ANTIMONY DURING EXTRACTION OF FINE BISMUTH FROM LEAD N64-31413 23-07

THERMODYNAMIC PROPERTIES OF SOLID SOLUTIONS OF SELENIDES & TELLURIDES OF BISMUTH & ANTIMONY AND COMPOUNDS OF MAGNESIUM & INDIUM
AFCRL-64-623 N64-32301 23-07

BISMUTH ALLOY
ZIRCONIUM INHIBITOR FOR RETARDING CORROSION OF LOW ALLOY STEELS EXPOSED TO LIQUID BISMUTH & LEAD ALLOYS
BNL-811/T-313/ N64-14427 06-18

BISMUTH COMPOUND
PHASE RELATIONS AND ELECTRICAL & THERMAL PROPERTIES IN TIN-TELLURIUM-ANTIMONY AND TIN-TELLURIUM-BISMUTH PSEUDOBINARY SYSTEMS
ORS MASTER*S 63-2 N64-13395 04-19

RESISTIVITY AND SEEBECK COEFFICIENTS OF BISMUTH SULFIDE-CUPROUS SULFIDE SYSTEM IN LIQUID STATE
OPB-2 N64-19388 12-09

BLACK BODY RADIATION
EFFECT OF SURFACE LAYER OF STAR UPON BLACK BODY RADIATION FROM INTERIOR
AFCRL-63-419 N64-12285 03-05

QUANTUM MECHANICAL CALCULATION OF SPACE-TIME CORRELATION OF ELECTROMAGNETIC FIELD COMPONENTS IN BLACKBODY RADIATION N64-13429 05-23

BLACK BODY RADIATION DETECTOR FOR USE AS STANDARD IN EVALUATION OF INFRARED DETECTORS
NOLC-594 N64-13820 05-13

BLACKBODY RADIATION TABLES FOR REENTRY PHYSICS
TN-ARSMI-RNR-1-63 N64-13856 05-02

FAST RESPONSE GRAPHITE FURNACE AS A SOURCE OF BLACKBODY RADIATION FOR PYROMETER CALIBRATION
NASA-RP-121 N64-14861 06-23

RADIANT BLACK BODY HEAT REJECTION AND WEIGHT CHARACTERISTICS OF FIN TUBE SPACE RADIATORS WITH LINEARLY TAPERED FINS
NASA-TN-D-2168 N64-15847 07-13

STATISTICAL ANALYSIS OF BLACK BODY RADIATION FIELD
P-3844 N64-20113 13-23

ABSOLUTE MEASUREMENT OF SUN DISK ENERGY EMISSION USING BLACK BODY
NASA-TT-F-8929 N64-26786 18-28

TEMPERATURE MEASUREMENTS OF BLACK BODY MOST CLOSELY FITTING SOLAR EXTRATERRESTRIAL SPECTRUM
NASA-TN-D-1845 N64-27661 19-28

EMISSIVITY OF CIRCULAR-APERTURE BLACK BODY RADIATION SOURCE
RR-63-3 N64-29716 21-23

SURFACE ROUGHNESS EFFECT ON HEMISPHERICAL AND SPECULAR REFLECTANCE OF METALLIC SURFACES IRRADIATED BY BLACK BODY IRRADIATION
ASME PAPER-63-HT-6 N64-30787 22-18

MULTIPLE CELL BLACK BODY RADIATION SOURCE WITH LARGE AREA FOR RADIATION EMISSION
N64-31867 23-23

BLACK BRANT II MISSILE
RADIATION PATTERNS FOR TELEMETRY ANTENNA SYSTEMS FOR BLACK BRANT II ROCKETS
ER8-659 N64-18469 10-09

BLACK BRANT MISSILE
PERFORMANCE SUMMARY OF 15KS25000 ROCKET ENGINE USED IN FIRST SIXTEEN BLACK BRANT VEHICLES
CARDE-TN-1525/63 N64-10419 01-31

CHARACTERISTICS OF BLACK BRANT I ROCKET - PRE-FLIGHT CALCULATIONS AND FLIGHT TEST RESULTS FROM FIRST SEVEN FIRINGS
CARDE-TN-695/63 N64-11634 03-04

SEEDING IN UPPER ATMOSPHERE BY FIRING TWO BLACK BRANT I MISSILES
CARDE-TN-1587/64 N64-29528 21-21

OPERATION AND HANDLING INSTRUCTIONS FOR BLACK BRANT ROCKET ENGINE
CARDE-TN-1629/64 N64-32073 23-27

BLACKOUT
COMMUNICATION BLACKOUT AT REENTRY - APPROXIMATE COMPUTATION METHOD
NASA-CR-55167 N64-13335 04-08

PHYSIOLOGICAL EFFECTS OF ROTATIONAL ACCELERATION IN RELATION TO MOTION SICKNESS, SPATIAL DISORIENTATION, & BLACKOUT N64-13454 05-16

IONOSPHERIC POLAR BLACKOUTS AND RADIO COMMUNICATIONS DISTRUBANCES N64-15429 07-12

ELECTROENCEPHALOGRAPHIC CHANGES IN HUMANS DURING BLACKOUTS INDUCED BY ACCELERATION
NADC-ML-6402 N64-20450 13-16

APPROXIMATE METHOD FOR ESTIMATE OF BLACKOUT TIME AND DURATION AT REENTRY
NASA-TM-X-55059 N64-29516 21-08

LOSS OF CONSCIOUSNESS IN AVIATION PERSONNEL - PHYSIOLOGICAL SYNCOPE
REPT.-16 N64-33570 24-16

BLADE
METALWORKING & FORMING OF BLADES
N64-17087 09-17

AXIAL FLOW PUMP ROTOR WITH BLADE TIP DIFFUSION FACTOR OF 0.43 - CAVITATION FLOW CONDITIONS
NASA-TN-D-2295 N64-19726 12-17

NATURAL FREQUENCIES OF TWISTED NONROTATING AND ROTATING BLADES IN COUPLED BENDING AND TORSION
NASA-CR-65 N64-26033 18-03

TWO-DIMENSIONAL CASCADE FLOW MAPPING FOR BLADE OSCILLATION IN AXIAL FLOW COMPRESSORS
FTR-1/23 N64-31141 22-02

BLASIUS FLOW
COMPARISON OF STABILITY OF POISEUILLE FLOW AND BLASIUS PROFILE FOR FLEXIBLE WALLS
DI-82-0264 N64-15299 07-11

BLAST
CF EXPLOSION
QUASI-SIMILARITY THEORY FOR PREDICTING FLOW PATTERN OF MODERATE BLAST WAVES
REPT.-386 N64-29377 21-11

AERODYNAMIC BLAST SIMULATION IN HYPERSONIC WIND TUNNELS
SSD-TDR-64-175 N64-33349 24-10

BLAST LOADING
BLAST LOADING AND TARGET RESPONSE OF BALLISTIC MISSILE REENTRY VEHICLES
TM-1152 N64-21032 14-30

PLASTIC RESPONSE OF SCALED MODELS OF NUCLEAR REACTOR OUTER CONTAINMENT STRUCTURE TO INTERNAL BLAST LOADING
BRL-MEMO-1530 N64-21808 15-33

DEFORMATION OF THIN WALLED CYLINDRICAL SHELLS BY EXTERNAL BLAST LOADING
BRL-MEMO-1560, PT. 2 N64-28155 20-33

INTERNAL BLAST WAVES IN SPHERES
QRR-10 N64-32247 23-23

BLINDNESS
CF VISION
SENSORY AIDS FOR BLIND AND BLIND-DEAF PEOPLE
N64-17886 10-15

NERVOUS RESPONSE OF BLIND RAT TO STIMULATION BY IONIZING RADIATION
USNRDL-TR-670 N64-31175 22-16

BLOCH WALL
S FERROMAGNETISM
S SPIN

BLOOD
SA HEMODYNAMIC RESPONSE
CF BODY FLUID
CF HEART
CF HEMATOLOGY
CF SPLEEN
EFFECTS OF BIPOLAR IONIZED AIR ON CHANGE IN BLOOD COMPLEMENT TITER AND ON ANAPHYLACTIC SHOCK IN RABBITS
JPRS-21777 N64-10152 01-02

PROPAGATION OF ULTRASONIC WAVES IN BLOOD OF DOGS - DYNAMICS OF ACUTE RADIATION SICKNESS
JPRS-21775 N64-10206 01-16

EFFECT OF SOLAR RADIATION ON HUMAN BLOOD AND CIRCULATORY SYSTEM
JPRS-21864 N64-10327 01-16

EFFECTS OF MILD HYPOXIA ON HEMOGLOBIN FRACTION CHANGES IN BLOOD OF PILOTS
REPT.-63-2 N64-10433 01-16

BLOOD GLYCOGEN METABOLISM IN MAMMALS AFTER IONIZING RADIATION
JPRS-18479 N64-10769 02-16

INFLUENCE OF SOLAR ACTIVITY ON THE CIRCULATORY & HEMATOPOIETIC SYSTEMS AND BLOOD COMPOSITION OF MAN
JPRS-18960 N64-11121 02-16

MECHANICAL PROPERTY CHANGES OF PLASTIC TUBULE SUBSTITUTED FOR BLOOD VESSEL IN CARDIOVASCULAR SYSTEM OF DOGS
JPRS-18644 N64-11316 02-16

EFFECT OF PROLONGED & REPEATED IONIZING RADIATION ON HEMATOLOGIC ORGANS AND BLOOD
N64-11609 03-16

BIOCHEMICAL INVESTIGATION OF BLOOD & URINE OF DOGS AFTER SPACE FLIGHT N64-11673 03-16

BIOCHEMICAL INVESTIGATION OF BLOOD OF DOGS AFTER SPACE FLIGHT N64-11674 03-16

INFLUENCE OF SPACE FLIGHT FACTORS ON SEROTONIN LEVEL IN BLOOD OF ANIMALS N64-11685 03-16

INTERMEDIARY METABOLISM - INFLUENCE OF CHRONIC HYPOXIA ON TRANSAMINASE ACTIVITY IN BLOOD
N64-12754 04-16

BURN TREATMENT, BLOOD STRUCTURE, AND RADIATION SICKNESS STUDIES
JPRS-22180 N64-12764 04-16

PROPERDIN CONTENT IN BLOOD SERUM OF PATIENTS WITH SEVERE BURNS N64-12767 04-16

PROTEIN CONTENT OF BLOOD SERUM DURING ACUTE RADIATION SICKNESS N64-12778 04-16

FLUORESCENT MICROSCOPIC INVESTIGATION OF FORMED ELEMENTS IN BLOOD AND BONE MARROW DURING RADIATION SICKNESS N64-12782 04-16

TOXICITY OF RAT BLOOD PLASMA DURING RADIATION SICKNESS N64-12783 04-16

EFFECT OF EXPOSURE TO LOW TEMPERATURE ON BLOOD CLEARANCE OF CARBON & BACTERIA IN MICE
AAL-TDR-63-1 N64-13629 04-16

CHANGES OF MORPHOLOGICAL & FUNCTIONAL PROPERTIES OF BLOOD & HEMODYNAMICS DURING USE OF EXTRACORPORAL CIRCULATION SYSTEMS
JPRS-22914 N64-14133 05-16

PASSAGE OF TRYPAN BLUE, PRONTOSIL, AND RADIOACTIVE CHROMIUM IN CITRATE BUFFER SOLUTION THROUGH BLOOD-BRAIN BARRIER IN HYPOXIA AND HYPOCAPNIA
N64-14589 06-16

CHANGE IN METABOLIC PATTERN OF BRAIN DUE TO OXYGEN TENSION REDUCTION IN BLOOD - HYPOXIA
N64-14603 06-16

INTRAVASCULAR AIR BUBBLE FORMATION AFTER OXYGEN DECOMPRESSION IN ALBINO RATS WITH ELECTROLYTIC SALT SOLUTIONS IN PLASMA N64-15040 07-16

ERYTHROCYTE COUNT FOR QUANTITATIVE EVALUATION OF HUMAN BLOOD CHANGES DURING PHYSICAL WORK AND OXYGEN DEFICIENCY N64-15044 07-16

CORRELATION OF DISSOLVED NITROGEN IN WHOLE BLOOD WITH SELECTED WHOLE BLOOD CONSTITUENTS
SAM-TDR-63-92 N64-15743 07-16

DETERMINATION OF TEMPERATURE OF PULMONARY CAPILLARY BLOOD N64-17932 10-16

CARBON DIOXIDE CONTENT OF VENOUS & ARTERIAL BLOOD AND CARDIAC OUTPUT N64-17933 10-16

DETERMINATION OF BLOOD NITROGEN CONTENT BY GAS CHROMATOGRAPHY N64-17937 10-16

OXYGEN DISSOCIATION CURVE DETERMINATION - POLAROGRAPHIC MEASUREMENTS OF OXYGEN TENSION
N64-17938 10-16

TOPOGRAPHICAL DISTRIBUTION OF PERFUSION AND VENTILATION OF BLOOD IN LUNGS N64-17942 10-16

DYNAMICS OF CHANGES IN CARBON DIOXIDE IN BODY AND BLOOD N64-17950 10-16

BIOCHEMISTRY OF X-RAY IRRADIATION EFFECT ON BLOOD PROTEIN REACTIONS, DISULFIDE BONDS OF FIBRINOGEN, AND SYNTHESIS OF AMINO ACIDS
JPRS-24164 N64-19059 11-16

SPACE ENVIRONMENT EFFECTS ON STORED HUMAN BLOOD IN EARTH ORBIT
SSD-TDR-64-1 N64-19184 11-16

HIGH ENERGY NEUTRON AND PROTON RADIATION EFFECTS ON LIFESPAN, PERIPHERAL BLOOD, AND RATE OF APPEARANCE OF TUMORS IN RATS
FTD-TT-63-1049/1&2&4 N64-19220 11-16

BLOOD SERUM ENZYME ACTIVATION AND SPECTRUM ANALYSIS OF CATECHOLAMINES
JPRS-24838 N64-24561 17-16

ACTIVITY OF BLOOD SERUM ENZYME DUE TO HYPOXIA,

ASPHYXIA, AND BURN SHOCK STIMULI
N64-24562 17-16

GROWTH-RELATED CHANGES IN ZINC CONTENT OF HUMAN BLOOD
JPRS-25364 N64-25196 17-16

OXYGEN INHALATION EFFECTS ON COLD RESPONSE THRESHOLDS AND ON GAS TRANSPORT AND ACID-BASE BALANCE OF BLOOD
AD-600077 N64-26550 18-16

PLASMA NONESTERIFIED FATTY ACIDS IN RATS SUBJECTED TO GRAVITATIONAL ACCELERATION
NASA-TT-F-197 N64-26782 18-16

VISUAL ADAPTATION IN EYE OF MAN - ANTIBIOTIC EFFECT ON BLOOD CONTENT AND ORGANS OF IRRADIATED RATS - ELECTRIC RESISTANCE IN SECTION OF PULMONARY TISSUE IN MAN
JPRS-25464 N64-28425 20-16

POLAROGRAPHIC DETERMINATION OF OXYGEN CONTENT AND CAPACITY IN SINGLE BLOOD SAMPLE
SAM-TDR-64-39 N64-29287 21-16

CHANGES IN FRACTIONAL COMPOSITION & COLLOIDAL STABILITY OF SERUM PROTEINS IN RABBIT BLOOD DURING RADIATION SICKNESS N64-30243 22-16

EFFECTS OF LOW FREQUENCY MECHANICAL VIBRATIONS ON BLOOD CHANGES IN WHITE RATS
FTD-TT-64-242/1 N64-30703 22-16

EFFECT OF HIGH FREQUENCY ELECTROMAGNETIC RADIATION ON BLOOD HISTAMINE CONTENT AND CHOLINESTERASE ACTIVITY IN HUMAN BODY N64-31540 23-16

BLOOD THINNING AND SODIUM CHLORIDE LOSS WITH INCREASED WATER INTAKE
NASA-TT-F-9116 N64-33398 24-16

WATER TOXICITY STUDIES - ERYTHROCYTE AND HEMOGLOBIN RESISTANCE, AND CARBON DIOXIDE CONTENT OF BLOOD PLASMA
NASA-TT-F-9125 N64-33401 24-16

BLOOD POLAROGRAPHY FOR USE IN BIOLOGICAL AND MEDICAL STUDIES
JPRS-27237 N64-33675 24-16

BLOOD CIRCULATION
CF CARDIOVASCULAR SYSTEM
CF CIRCULATORY SYSTEM
BLOOD CIRCULATION IN EARS OF DOGS AFTER SPACE FLIGHT N64-11675 03-16

STUDY OF BLOOD CIRCULATION OF BRAIN UNDER MODIFIED GRAVITATIONAL FIELD N64-11701 03-16

CRITICAL BLOOD PRESSURE IN CEREBRAL CIRCULATION
N64-14581 06-16

REGIONAL BLOOD CIRCULATION OF BRAIN UNDER VARIOUS PHYSIOLOGICAL CONDITIONS N64-14582 06-16

BRAIN CIRCULATION, OXYGEN SUPPLY, AND ANOXIC SURVIVAL N64-14584 06-16

REGIONAL METABOLISM AND CIRCULATION OF CEREBRAL CORTEX AND EFFECT ON SELECTIVE VULNERABILITY TO ANOXEMIA N64-14587 06-16

DETERMINATION OF BLOOD FLOW THROUGH INTACT VESSELS UNDER CONDITIONS OF GRAVITATIONAL STRESS AND IN EXTRATERRESTRIAL SPACE CAPSULES
NASA-CR-53302 N64-17766 09-16

DISTRIBUTION OF LUNG DIFFUSING CAPACITY IN ANESTHETIZED DOG - BLOOD FLOW N64-17946 10-16

DISTRIBUTION OF BLOOD FLOW IN HUMAN SKIN
AD-405777 N64-20445 13-16

REACTIONS OF VASCULAR SYSTEM OF CRANIAL CAVITY DURING LONGITUDINAL G-LOADS N64-23770 16-16

DISTRIBUTION OF BLOOD FLOW IN HUMAN SKIN
AD-411171 N64-25383 17-16

BLOOD CIRCULATION IN BRAIN
OTS-63-11171 N64-26351 18-16

INFLUENCE OF GRAVITATIONAL OVERLOAD ON ARTERIAL SYSTEM OF NERVES AT EXTREMITIES
JPRS-25275 N64-27501 19-16

EFFECTS OF WEIGHTLESSNESS ON BLOOD CIRCULATION
N64-27632 19-16

CONTINUOUS REGISTRATION OF LOCAL CEREBRAL BLOOD FLOW USING THERMISTOR
FTD-TT-63-1175/1&2&4 N64-27840 19-16

CATHETER-TIP FLOW METER FOR MEASUREMENT OF CORONARY ARTERIAL BLOOD FLOW IN DOGS
SAM-TDR-64-33 N64-29989 21-16

INTERDEPENDENCE OF FACTORS LEADING TO CORONARY DISEASE
REPT.-9 N64-29995 21-16

BLOOD COAGULATION
TEACHING OF PRINCIPLES INVOLVED IN BLOOD CLOTTING SYSTEM AND ITS DISORDERS - STUDY SCHEME
N64-12772 04-16

BLOOD TRANSFUSION & COAGULATION STUDIES
JPRS-24118 N64-18520 11-16

PROTEIN BLOOD SUBSTITUTE BK-8 EFFECT ON COAGULATION DURING BLOOD TRANSFUSION
N64-18522 11-16

BLOOD FLOW
CATHETER-TIP FLOW METER FOR MEASUREMENT OF CORONARY ARTERIAL BLOOD FLOW IN DOGS
SAM-TDR-64-33 N64-29989 21-16

EFFECTS OF HAND IMMERSION IN COLD WATER ON DIGITAL BLOOD FLOW
AAL-TDR-63-35 N64-33524 24-16

BLOOD GROUP
SA HEMATOPOIETIC SYSTEM
ACID STABILITY OF BLOOD ERYTHROCYTES IN HUMAN BODIES BY IONIZING RADIATION
JPRS-18938 N64-11317 02-16

THROMBOPLASTIN, THROMBIN AND FIBRIN FORMATION IN BLOOD COAGULATION HEMOSTATIC PROCESS
JPRS-19219 N64-11318 02-16

INDIVIDUAL BLOOD CONSTITUENTS & BLOOD SUBSTITUTES FOR TRANSFUSION
JPRS-22401 N64-11959 03-16

BIOSYNTHESIS OF UREA IN LIVER AND BLOOD PROTEIN FRACTION AFTER PLUTONIUM-239 INJURY
N64-12571 04-16

ORIGIN & DEVELOPMENT OF RADIATION LESIONS IN BLOOD PROTEIN - INVESTIGATION USING THERMAL PROPERTIES OF BLOOD SOLUTIONS N64-12777 04-16

SMALL & LARGE SIZE RADIOALBUMIN AGGREGATES FOR PHOTOSCANNING LIVER, SPLEEN, LUNGS, & OTHER ORGANS
UCLA-519 N64-13004 04-16

CHRONIC IRRADIATION EFFECTS ON LONGEVITY AND PERIPHERAL BLOOD ELEMENTS OF MONKEYS
SAM-TDR-63-55 N64-13078 04-16

BEHAVIOR OF EOSINOPHILIC BLOOD CELLS WITH DIFFERENT TESTS IN SAME INDIVIDUAL - BIBLIOGRAPHY
DVL-310 N64-19799 12-1A

PHOTOSCANNING OF HUMAN LUNG WITH MACROAGGREGATES OF HUMAN SERUM RADIOALBUMIN
UCLA-12-521 N64-20672 13-16

ELECTROPHORETIC BEHAVIOR OF FIXED RAT RED BLOOD CELLS
UCRL-10898 N64-22855 16-16

ROLE OF NUCLEIC ACIDS AND ALBUMIN IN BIOSYNTHESIS OF CHLOROPHYLL N64-23660 16-16

COMPILATION OF ARTICLES ON MEDICINE - RADIATION SICKNESS, URANIUM POISONING, PROTEIN STABILITY IN BLOOD, RADIOSENSITIVITY, AND RADIATION THERAPY
JPRS-26216 N64-30241 22-16

WATER TOXICITY STUDIES - ERYTHROCYTE AND HEMOGLOBIN RESISTANCE, AND CARBON DIOXIDE CONTENT OF BLOOD PLASMA
NASA-TT-F-9125 N64-33401 24-16

BLOOD PRESSURE
SA MANOMETER
CF HYPERTENSION
PULSE TECHNIQUE FOR RECORDING BLOOD PRESSURE OF DOGS DURING SPACE FLIGHTS - PHONOCARDIOGRAPHY N64-11705 03-16

CRITICAL BLOOD PRESSURE IN CEREBRAL CIRCULATION N64-14581 06-16

BLOOD PRESSURE MEASUREMENTS OF OXYGEN UPTAKE AND RESPIRATORY RATE OF RAT LIVER - HYPOXIA N64-14602 06-16

TRANSDUCER FOR CONTINUOUS EXTERNAL MEASUREMENT OF ARTERIAL BLOOD PRESSURE N64-16184 08-16

EXTERNAL, ARTERIAL BLOOD PRESSURE TRANSDUCER
NASA-CR-53362 N64-17815 09-15

MEASUREMENT OF BLOOD PRESSURE IN HUMAN BODY
NASA-SP-5006 N64-17838 09-16

BLOOD PRESSURE MEASUREMENTS IN SIMULATED ARTERIES USING AUSCULTATORY TECHNIQUES
NASA-CR-56024 N64-20588 13-16

AUSCULTATORY VERSUS DIRECT PRESSURE MEASUREMENTS FOR NEWTONIAN FLUIDS AND BLOOD IN SIMULATED ARTERIES
NASA-CR-56470 N64-22425 15-16

INSTRUMENTATION FOR SIMULTANEOUS RECORDING OF BLOOD PRESSURE CURVE, PHONOCARDIOGRAM, AND ELECTROCARDIOGRAM
JPRS-25897 N64-27125 19-16

BLOWDOWN WIND TUNNEL
LARGE BLOW-DOWN HYPERSONIC WIND TUNNEL WITH METHANE-OXYGEN FIRED ZIRCONIUM OXIDE BED
ARL-63-223 N64-14682 06-10

OPTIMIZATION OF TIN CAN THERMAL BALLAST REQUIREMENTS FOR BLOWDOWN WIND TUNNELS
TN-AE-21-63 N64-19289 11-10

BLOWER
TANDEM GRID IN SINGLE STAGE AXIAL BLOWER
RSIC-276 N64-32498 23-02

BLOWING
CF INJECTION
LOW SPEED WIND TUNNEL TEST OF 70-DEG CROPPED DELTA WING WITH EDGE BLOWING
COA-162 N64-10212 01-03

BLOWOUT
HYDRAULIC COMPRESSOR APPARATUS FOR FREE LIQUID JET BLOWOUT AT SUPERSONIC VELOCITY
FTD-TT-64-252/1&2&4 N64-27843 19-11

BLUE SCOUT ROCKET
EPHEMERIS OF KINETHEODOLITE OBSERVATIONS - THOR AGENA D, MIDAS VI, BLUE SCOUT, AND GEOPHYSICAL RESEARCH SATELLITE N64-33446 24-08

BLUE STREAK MISSILE
TRANSONIC WIND TUNNEL TEST OF SCALE MODEL DE HAVILLAND BLUE STREAK MISSILE - DYNAMIC STABILITY AND STATIC PRESSURE
ARC-CP-734 N64-29234 21-04

BLUFF BODY
SOLUTIONS FOR NONADIABATIC SHOCK LAYER IN BLUFF BODY STAGNATION REGION AT HYPERSONIC SPEEDS
NASA-TR-R-159 N64-11560 03-13

BLUNT BODY
PRESSURE DISTRIBUTION AND SHOCK STANDOFF DISTANCE FOR BLUNT CYLINDERS IN AIR AT HYPERSONIC SPEEDS
NASA-TN-D-1979 N64-10056 01-02

PRESSURE AND FORCE MEASUREMENT ON A SLENDER, BLUNT, CONE-CYLINDER-FLARE CONFIGURATION AT HYPERSONIC SPEED
ARC-CP-657 N64-10138 01-02

EFFECT OF CHANGES IN BASE CONTOUR ON DAMPING IN PITCH OF BLUNTED CONE IN WIND TUNNEL
NASA-TN-D-2062 N64-10183 01-02

HYPERSONIC AREA RULE FOR BLUNT BODIES - MASS OF GASES CONCENTRATED IN THIN LAYER CONTIGUOUS TO SHOCK WAVE
FTD-TT-62-1311/1&2&4 N64-10248 01-02

APPROXIMATION OF HYPERSONIC NONEQUILIBRIUM AIRFLOWS PAST BLUNT BODIES
CARDE-TR-458/63 N64-10472 01-11

ASYMPTOTIC FLOW PAST BLUNT BODIES AT HYPERSONIC SPEEDS WITH SHOCK WAVE PROFILES
NPL-AERO-1051 N64-11238 02-03

INFLUENCE OF DIFFUSION OF RADIATING IMPURITIES ON CONVECTIVE HEAT EXCHANGE FOR AXISYMMETRIC BLUNT-NOSED BODY N64-11715 03-13

SHOCK-WAVE SHAPES AND STAGNATION-POINT LOCATIONS FOR SPHERICALLY BLUNTED BODIES AT LARGE ANGLES OF ATTACK
NASA-TN-D-1980 N64-11897 03-02

CALCULATED RADIO ATTENUATION DUE TO PLASMA SHEATH ON HYPERSONIC BLUNT-NOSED CONE N64-11900 03-24

RADIATIVE & CONVECTIVE HEATING OF SHAPES ENTERING ASSUMED ATMOSPHERES OF MARS & VENUS AT SUPERORBITAL SPEEDS
NASA-TN-D-2064 N64-11903 03-13

GAS FLOW PAST BLUNT BODIES & TRIANGULAR WING AND ITERATIVE SOLUTION OF LINEAR BOUNDARY PROBLEM
FTD-TT-62-1582/1&2 N64-12482 04-01

HYPERSONIC FLOW OF IDEAL OR REAL GAS PAST BLUNT BODIES OF GIVEN SHAPE N64-12484 04-02

CHEMICAL & IONIZATION PROCESSES IN HYPERSONIC NOZZLE AND AXISYMMETRIC BLUNT BODY FLOWS
ASD-TDR-62-1078 N64-12599 04-14

HYPERSONIC FLOW WITH NONEQUILIBRIUM DISSOCIATION AROUND BLUNT BODIES IN FLOW FACILITIES & FREE FLIGHT
NASA-CR-55138 N64-13055 04-11

NONEQUILIBRIUM HYPERSONIC FLOW OF AIR IN HYPERSONIC NOZZLES & AROUND BLUNT BODIES
NASA-CR-55139 N64-13188 04-02

LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF BLUNTED CONES AT HYPERSONIC AND SUPERSONIC SPEEDS
NASA-TN-D-2201 N64-15404 07-02

CYLINDRICALLY BLUNTED WEDGES TESTED AT HYPERSONIC SPEED AT VARIOUS ANGLES OF ATTACK N64-15634 07-03

TRANSONIC FLOW ABOUT BLUNT-NOSED BODY WITH REAR SKIRT N64-15644 07-02

HEAT TRANSFER AND SHADOWGRAPH TESTS OF ELLIPTICAL LIFTING BODIES WITH SHARP & BLUNT NOSE SHAPES AT HYPERSONIC SPEEDS
AEDC-TDR-64-19 N64-16075 07-02

INVERSE METHOD FOR ANALYZING CHEMICALLY REACTIVE NONEQUILIBRIUM FLOW AROUND BLUNT BODIES
TDR-269/4560-10/-2 N64-16255 08-02

EQUILIBRIUM AND NONEQUILIBRIUM PROBLEMS OF BLUNT BODY NEAR STAGNATION POINT IN PLANE AND AXISYMMETRICAL FLOW OF GAS MIXTURE
FTD-TT-63-311/1&2&4 N64-16363 08-13

GAS FLOW NEAR STAGNATION POINT OF BLUNT BODY WITH FINITE RATE OF EXCITATION OF VIBRATIONAL DEGREES OF FREEDOM
FTD-TT-62-1313/1&2&4 N64-16477 08-02

LAMINAR HYPERSONIC WAKE LENGTH DURING BALLISTIC REENTRY OF BLUNT OBJECTS N64-16570 08-30

INDUCED PRESSURES AND SHOCK SHAPES ON BLUNT CONES IN HYPERSONIC FLOW - EXTENSION OF BLAST-WAVE PARAMETERS
NASA-TN-D-2182 N64-17158 09-02

PITCHING AND YAWING MOTION OF SPINNING SYMMETRIC BLUNT-NOSED MISSILE AT HYPERSONIC SPEED
NASA-TN-D-2135 N64-17734 09-30

FREE FLIGHT INVESTIGATION OF MASS TRANSFER COOLING IN LAMINAR BOUNDARY LAYER AROUND BLUNT CONE AT HYPERSONIC SPEEDS
NASA-TN-D-2197 N64-17746 09-13

SHOCK LAYER RADIATION OF BLUNT BODIES AT REENTRY VELOCITY
NASA-TR-R-193 N64-17829 09-24

RAREFIED HYPERSONIC FLOW ABOUT BLUNT AXISYMMETRIC BODIES, CYLINDERS NORMAL TO & INCLINED TO STREAM, AND POINTED CONES
ARL-64-27 N64-18019 10-11

REAL GAS FLOW FIELD AROUND BLUNT BODIES - DATA TABLES
RF-TR-63-18 N64-18591 11-02

WIND-TUNNEL TESTING OF DYNAMICS OF BLUNT BODY SEPARATION AT HYPERSONIC SPEEDS
CRA-63-13 N64-18644 11-02

ITERATIVE SOLUTION OF INVISCID FLOW FIELD ABOUT SUPERSONIC AXISYMMETRIC BLUNT BODY - FLOW EQUATIONS
R-72 N64-18699 11-02

AERODYNAMIC AND ROCKET BRAKING OF BLUNT NONLIFTING VEHICLES DURING ATMOSPHERIC ENTRY AT HYPERSONIC SPEEDS
NASA-TN-D-2239 N64-18731 11-30

INFLUENCE OF RADIATION HEAT EXCHANGE ON REMOVAL OF SUBSTANCE IN CRITICAL POINT OF BLUNT-NOSED BODY
FTD-MT-63-60/1&2 N64-18757 11-13

AERODYNAMIC DRAG OF BLUNT CONES IN HYPERSONIC RAREFIED FLOW OF NITROGEN AND ARGON
AEDC-TDR-64-60 N64-19067 11-02

HEAT AND MASS TRANSFER IN INTERACTIONS OF BLUNT BODIES WITH FLUID FLOW IN PRESENCE OF CHEMICAL REACTIONS
FTD-TT-63-310/1&2&4 N64-19214 11-13

STATIC STABILITY OF BLUNT BODY OF REVOLUTION AT HYPERSONIC SPEED IN HELIUM
NASA-TN-D-2282 N64-19478 12-02

HYPERSONIC PLANE AND AXISYMMETRIC FLOW AROUND BLUNT BODY
ARL-64-26 N64-19648 12-11

HYPERSONIC WAKE BRIGHTNESS TEMPERATURE MEASUREMENT FOR BLUNT BODIES
GDA63-0506 N64-20139 13-24

INVISCID NONADIABATIC FLOW AROUND BLUNT BODIES AT HYPERVELOCITIES
REPT.-6-90-64-1 N64-20680 13-02

RADIATION EMISSION IN NONEQUILIBRIUM SHOCK LAYERS OF BLUNT REENTRY BODIES IN HYPERSONIC FLOW
CARDE-TR-496/64 N64-20883 14-02

FLOW FIELD OF BLUNT-NOSED SLENDER BODIES AT ARBITRARY ANGLES OF YAW
TN-R-85 N64-21555 15-02

APPROXIMATION METHOD OF COMPUTING THREE-DIMENSIONAL LAMINAR BOUNDARY LAYER FOR BLUNT BODY IN HYPERSONIC FLOW
FTD-TT-63-1136/1 N64-21663 15-11

AIR RADIATION FROM NONEQUILIBRIUM WAKES OF BLUNT HYPERSONIC REENTRY VEHICLES
RM-4071-ARPA N64-22616 15-11

PRESSURE AND HEAT TRANSFER MEASUREMENTS FOR HYPERSONIC FLOWS OVER BLUNT BODY WITH AERODYNAMIC CONTROL
FDL-TDR-64-2, PT. IV N64-22682 15-02

WIND TUNNEL TESTING OF CIRCUMFERENTIAL PRESSURE DISTRIBUTION ON BLUNT-NOSED BODY OF REVOLUTION
NAVWEPS-8448 N64-22924 16-02

THEORETICAL PREDICTION OF EQUILIBRIUM REAL GAS INVISCID FLOW FIELDS ABOUT BLUNT BODIES
NASA-CR-52876 N64-23394 16-02

INFLUENCE OF PRANDTL NUMBER ON EQUILIBRIUM FLOW OF VISCOUS GAS IN VICINITY OF FORWARD PART OF BLUNT BODY N64-23481 16-11

SUPERSONIC FLOW PAST BLUNT BODIES AND THERMODYNAMICS OF IONIZED GASES
FTD-TT-63-211/1&2 N64-23598 16-01

SUPERSONIC FLOW OF NONVISCOUS PERFECT GAS PAST BLUNT BODIES N64-23599 16-02

HYPERSONIC FLOW PAST SLENDER BLUNT ELLIPTIC CONES N64-23677 16-11

BOUNDARY LAYER DEVELOPMENT NEAR CRITICAL POINT OF BLUNT BODY N64-23679 16-11

COMMUNICATION BLACKOUT OF BLUNT BODY DURING ENTRY INTO MARS ATMOSPHERE
NASA-CR-56459 N64-24039 16-29

SUPERSONIC FLOW AROUND BLUNT BODIES IN GAS IN THERMODYNAMIC EQUILIBRIUM
NASA-TR-R-204 N64-25812 17-02

HYPERSONIC MAGNETOHYDRODYNAMICS WITH OR WITHOUT BLUNT BODY
NASA-CR-88 N64-25968 18-24

NONEQUILIBRIUM BLUNT BODY FLOWS N64-26132 18-02

HEAT TRANSFER ON UNSWEPT AND SWEPT CYLINDRICALLY BLUNTED WEDGE FINS IN FREE FLIGHT AT SUPERSONIC SPEEDS
NASA-TN-D-2386 N64-26774 18-13

LANGMUIR PROBE CHARACTERISTICS FROM ELECTROCHEMICAL REACTIONS OF IONIZED GAS & BLUNT BODY STAGNATION FLOW
BSD-TDR-64-103 N64-27491 19-11

PREDICTING GASEOUS RADIATION CHARACTERISTICS OF BLUNT BODIES AT HYPERSONIC SPEEDS - ULTRAVIOLET EMISSION
CARDE-TR-504/64 N64-28015 20-11

PHYSICAL OPTICS MODEL FOR STUDY OF PLASMA SHEATH EFFECT ON HEAD-ON RADAR CROSS SECTION OF BLUNT BODIES
CARDE-TR-507 N64-28016 20-24

GENERAL SOLUTION OF COMPRESSIBLE LAMINAR BOUNDARY LAYER IN STAGNATION REGION OF BLUNT BODIES IN AXISYMMETRIC FLOW
NASA-TN-D-2234 N64-28057 20-11

SPECTROGRAPHIC STUDY OF CONTAMINATION-INDUCED LUMINOSITY BEHIND BLUNT BODY SHOCK WAVE
NASA-TN-D-2449 N64-28334 20-11

EFFECTS OF SURFACE PERTURBATIONS ON PRESSURE DISTRIBUTIONS ABOUT BLUNT TWO-DIMENSIONAL BODIES AT HYPERSONIC SPEEDS
FDL-TDR-64-17 N64-28549 20-02

AERODYNAMIC DRAG ON SPIKED BLUNT BODIES IN LOW DENSITY HYPERSONIC FLOW
AEDC-TDR-64-160 N64-28605 20-02

ANALOG DATA ON HYPERSONIC FLOW OF PERFECT FLUID ABOUT BLUNT BODIES
FDL-TDR-64-92 N64-30926 22-02

RADIATIVE HEATING OF BLUNT BODY IN HYPERSONIC FLOW BY SHOCK WAVE EMISSION N64-31529 23-13

HYPERSONIC FLOW PERTURBATIONS AS SOLUTION TO FLOW PROBLEMS AROUND SLENDER BLUNT BODIES
FTD-MT-64-59 N64-31772 23-02

TURBULENCE IN BLUNT- AND SLENDER-BODY HYPERSONIC WAKE FLOWS
TR-64-02H N64-32027 23-11

HYPERSONIC WIND TUNNEL TEST OF BLUNT-NOSE FLARED CYLINDER MODEL FOR AERODYNAMIC CHARACTERISTICS IN AIR-CARBON DIOXIDE MIXTURES
NASA-CR-59186 N64-33218 24-02

PRESSURE AND HEAT TRANSFER MEASUREMENTS FOR MACH 21 FLOWS OVER BLUNT PYRAMIDAL BODY WITH AERODYNAMIC CONTROLS
FDL-TDR-64-120 N64-33351 24-02

IBM 1620 COMPUTER PROGRAM FOR SOLUTION OF HEAT CONDUCTION EQUATIONS IN NOSE OF BLUNT HYPERSONIC PROJECTILE
CARDE-TN-1593/64 N64-33821 24-13

BMEWS
S BALLISTIC MISSILE EARLY WARNING SYSTEM /BMEWS/

BODY
S AFTERBODY
S AXISYMMETRIC BODY
S BLUFF BODY
S BLUNT BODY
S CELESTIAL BODY
S DUCTED BODY
S ELASTIC BODY
S FINNED BODY
S FLARED BODY
S FLEXIBLE BODY
S HUMAN BODY
S INELASTIC BODY
S LENTICULAR BODY
S PYRAMIDAL BODY
S REENTRY BODY
S RIGID BODY
S ROTATING BODY
S SELF-LUMINOUS BODY
S SHROUDED BODY
S SLENDER BODY
S STREAMLINE BODY
S SUBMERGED BODY
S THIN BODY
S TOWED BODY
S TWO-DIMENSIONAL BODY

BODY CENTERED CUBIC /BCC/ CRYSTAL
DIFFUSION COEFFICIENTS OF BODY CENTERED CUBIC METALS USING RADIOACTIVE ISOTOPES OF IRON AND CHROMIUM
AD-432969 N64-21307 14-18

ACTIVATED SINTERING OF BODY CENTERED CUBIC METALS BY HIGH FREQUENCY INDUCTION HEATING
QPR-4,5 N64-22083 15-18

DIFFUSION IN BODY-CENTERED CUBIC METALS - ZIRCONIUM, VANADIUM, NIOBIUM AND TANTALUM
ORNL-3617 N64-22948 16-18

LOWERING DUCTILE-TO-BRITTLE TRANSITION TEMPERATURE OF BODY-CENTERED-CUBIC METALS
ATN-64/9256/-4 N64-26669 18-18

REACTIVE ATMOSPHERES FOR TREATMENT OF BODY CENTERED CUBIC METALS
AD-440990 N64-28811 20-18

BODY MEASUREMENT
WIND MEASUREMENTS OF BLAST FORCES ON BODY DURING PRESSURE LOSS - EFFECT OF CLOTHING ON DRAG FORCES AND BODY MEASUREMENTS DURING WIND TUNNEL TESTS
AD-602207 N64-32066 23-14

BODY OF REVOLUTION
SA ELLIPSOID
SA OGIVE
DIFFERENTIAL EQUATIONS AND ASYMPTOTIC INTEGRATION FOR SOLUTION OF THERMAL STRESS ON THIN PARABOLIC SHELL OF REVOLUTION
NASA-CR-53007 N64-13276 04-34

STRESSES & DISPLACEMENTS IN ELASTIC-PLASTIC SHELLS OF REVOLUTION WITH TEMPERATURE-DEPENDENT PROPERTIES
LMSC-6-90-62-123 N64-13325 04-34

AXISYMMETRIC SUPERSONIC FLOW AROUND BODIES OF REVOLUTION WITH COMPRESSION SHOCKS AND ANGULAR EXPANSION CONSIDERATIONS
DVL-275 N64-13347 04-11

SLIP EFFECTS ON COMPRESSIBLE LAMINAR BOUNDARY LAYER OVER SLENDER BODIES OF REVOLUTION WITH ZERO PRESSURE GRADIENT
NOLTR-63-85 N64-14086 05-02

PRESSURE DISTRIBUTION IN WAKE OF TWO BODIES OF REVOLUTION AT TRANSONIC AND SUPERSONIC SPEEDS
ASD-TDR-62-1104 N64-14364 06-02

VELOCITY DISTRIBUTION IN WAKE BEHIND BODIES OF REVOLUTION - MEASUREMENTS & THEORY
ASD-TDR-62-1103 N64-14688 06-02

COMPUTATION METHODS FOR VELOCITY DISTRIBUTION AND BOUNDARY LAYERS ON BODIES OF REVOLUTION
TRECOM-TR-63-47 N64-16617 08-02

STATIC STABILITY OF BLUNT BODY OF REVOLUTION AT HYPERSONIC SPEED IN HELIUM
NASA-TN-D-2282 N64-19478 12-02

GRAPHICAL METHOD FOR DETERMINATION OF AXIAL AND TRANSVERSE MOMENTS OF INERTIA IN SOLIDS OF REVOLUTION
FA-R-1708 N64-20553 13-23

SPECULAR REFLECTION OF PLANE WAVE BY PLASMA-CLAD CONDUCTING BODY OF REVOLUTION
RCA-DTM-63-05 N64-20568 13-24

CIRCUMFERENTIAL STRESSES IN PRESSURE VESSEL SHELLS OF REVOLUTION
ASME-PAPER-62-PET-4 N64-20675 13-33

EFFECT OF TRANSVERSE CURVATURE IN COMPRESSIBLE LAMINAR BOUNDARY LAYER FLOW OVER SLENDER BODIES OF REVOLUTION
NOLTR-63-68 N64-21719 15-11

WIND TUNNEL TESTING OF CIRCUMFERENTIAL PRESSURE DISTRIBUTION ON BLUNT-NOSED BODY OF REVOLUTION
NAVWEPS-8448 N64-22924 16-02

BASE PRESSURE AND TEMPERATURE MEASUREMENTS FOR SOLIDS OF REVOLUTION IN SUPERSONIC GAS FLOW
FTD-TT-63-1146/1&2 N64-23441 16-11

ELASTIC PROPERTIES OF THIN SHELLS OF REVOLUTION
NASA-CR-37 N64-23622 16-23

DIFFRACTION OF FIELD OF RADIATING SURFACE ANTENNA EXCITED BY ELEMENTARY ELECTRIC DIPOLE BY SOLIDS OF REVOLUTION N64-23792 16-08

AERODYNAMIC CHARACTERISTICS OF BODIES OF REVOLUTION WITH FINS - ANNOTATED BIBLIOGRAPHY
SB-63-76 N64-23880 16-02

FLOW AND INTERFERENCE EFFECTS OF BODY OF

REVOLUTION AND ITS STABILIZING SURFACES
TM-510-2481-03 N64-25674 17-02

NUMERICAL CALCULATION OF SUPERSONIC FLOW OF PERFECT GAS OVER BODY OF REVOLUTION AT SMALL ANGLE OF REVOLUTION
NASA-TN-D-2390 N64-25809 17-02

SUPERSONIC FLOW PAST BODIES OF REVOLUTION SUBJECT TO ELASTIC HARMONIC VIBRATIONS
NASA-TT-F-9024 N64-29009 20-02

ELASTIC VIBRATIONS OF PARABOLOIDAL SHELLS OF REVOLUTION
AD-402926 N64-29920 21-33

LINE & SURFACE INTEGRALS, VOLUMES, CENTROIDS OF VOLUME, AND MOMENTS OF INERTIA FOR THIN-WALLED SHELLS OF REVOLUTION
NASA-CR-89 N64-30084 21-20

OPTIMUM EFFICIENCY OF LARGE-HUB PROPELLERS FOR APPLICATION TO TANDEM PROPULSION OF SUBMERGED BODY OF REVOLUTION
DTMB-1826 N64-31664 23-11

SUPERSONIC FLOW PAST BODY OF REVOLUTION
N64-31751 23-11

BODY TEMPERATURE
S HYPOTHERMIA

BODY TEMPERATURE /BIOL/
REDUCED SET POINT TEMPERATURE IN EXERCISING DOG
AMRL-TDR-63-93 N64-12219 03-16

EFFECT OF BODY TEMPERATURE IN BRAIN AND MUSCLE ON ADENOSINE TRIPHOSPHORIC ACID AND CREATINE PHOSPHATE CONTENT N64-12572 04-16

RECTAL TEMPERATURE OF WORKING SLED DOGS IN LOW TEMPERATURE ENVIRONMENT
AAL-TDR-63-40 N64-13633 05-16

EFFECTS OF TRANQUILIZER ON BODY TEMPERATURE
CARI-63-23 N64-17236 09-16

BODY TEMPERATURE REGULATORY SYSTEM OF WHITE RATS BEFORE AND AFTER COLD ADAPTATION
N64-22879 16-16

BODY-WING COMBINATION
EFFECTS OF SPANWISE VARIATION OF LEADING EDGE SWEEP ON LIFT, DRAG, & PITCHING MOMENT OF WING-BODY COMBINATION AT TRANSONIC SPEEDS
NASA-TN-D-2236 N64-17991 10-02

VARIATION OF NORMAL FORCE WITH ANGLE OF ATTACK FOR SLENDER BODY-WING COMBINATIONS EXHIBITING FLOW SEPARATION
VIDYA-92 N64-21162 14-02

BOEING MILITARY AIRCRAFT
S B-47 AIRCRAFT

BOILER
BOILER PROCESSES IN THERMAL ELECTRIC POWER STATIONS
FTD-TT-63-963/1&2 N64-14337 06-01

BOILER SLUDGE COMPOSITION, REMOVAL BY GRAVITATIONAL, CENTRIFUGAL AND MAGNETIC FIELD FORCES N64-14338 06-17

VISUAL OBSERVATION OF SEPARATION PROCESSES WITHIN BOILERS N64-14339 06-07

COMBUSTION AND HEAT TRANSFER PERFORMANCE OF STEAM BOILER - MULTIFUELED THERMAL-ENERGY CONVERSION SYSTEMS
OPR-NO. 6 N64-19056 11-06

MATERIAL SPECIFICATIONS AND INSTRUMENT TEST MEASUREMENT STANDARDS FOR BOILER AND TURBINE RESEARCH FACILITY
AD-602036 N64-28869 20-15

COMPUTER PROGRAM FOR ANALYSIS OF SYSTEM FOR NUCLEAR AUXILIARY POWER-50 /SNAP-50/ SPACE POWER UNIT REACTOR /SPUR/ BOILER
L-9390 N64-32680 23-13

BOILING
CF EVAPORATION
CF VAPORIZATION
HEAT POWER ENGINEERING - GAS TURBINE, BOILING, AND GAS FLOW STUDIES
FTD-TT-62-1456/1&2&4 N64-11139 02-01

CRITICAL LOAD MEASUREMENT DURING BOILING OF LIQUIDS - STABILITY CALCULATION FOR FILM & BUBBLE BOILING REGIMES N64-11141 02-13

HEAT TRANSFER IN BOILING LIQUID METALS
AD-423769 N64-12981 04-13

GENERALIZED DEPENDENCIES FOR CALCULATING HEAT EMISSION DURING BLISTERED BOILING OF LIQUIDS
RSIC-101 N64-13889 05-11

LIQUID METAL BOILING HEAT TRANSFER
RTD-TDR-63-4130 N64-15097 07-13

MOTION PICTURE STUDY OF BOILING FLOW IN VERTICAL, RECTANGULAR CHANNEL AT ATMOSPHERIC PRESSURE
NYO-9650 N64-16024 07-13

DEPENDENCE OF CRITICAL HEAT FLOW ON MACHINING OF HEATING SURFACE WITH BULK BOILING
N64-17191 09-13

BUBBLE MECHANICS - HEAT TRANSFER OF LIQUIDS BOILING UNDER SUBCOOLED CONDITION IN NEGLIGIBLE GRAVITY ENVIRONMENT
NASA-CR-56013 N64-20644 13-13

BINARY LIQUID METAL BOILING HEAT TRANSFER AND TWO-PHASE FLOW AND THERMOPHYSICAL PROPERTIES OF POTASSIUM AND MERCURY AMALGAM
REPT.-3549 N64-21058 14-06

POOL BOILING & EFFECT OF REDUCED GRAVITY
APL-TDR-64-19 N64-22329 15-13

BOILING & CONDENSING HEAT TRANSFER DATA FOR ALKALI METALS
NASA-CR-54037, VOL. 2 N64-25904 18-13

FORCED-CONVECTION BOILING POTASSIUM HEAT TRANSFER AND PRESSURE DROP
PWAC-429 N64-26060 18-13

TWO-PHASE HEAT TRANSFER IN SODIUM AND POTASSIUM BOILING AND CONDENSING
NASA-CR-54037, VOL. 1 N64-26580 18-13

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LIQUID METAL BOILING HEAT TRANSFER STUDY
REPT.-04526-15-F N64-27610 19-13

TEST FACILITY FOR INVESTIGATING BOILING OF SODIUM AND POTASSIUM
NASA-CR-54050 N64-28744 20-13

HEAT TRANSFER AND FLUID FLOW DATA FOR POTASSIUM UNDER BOILING AND CONDENSING CONDITIONS IN SPACE TURBOELECTRIC SYSTEMS
NASA-CR-54138 N64-32633 23-13

BOILING WATER REACTOR
CF POWER REACTOR
CF RESEARCH REACTOR
BOILING WATER- AND LIQUID METAL-COOLED REACTORS - GENERAL REACTOR TECHNOLOGY, ADVANCED SYSTEMS AND NUCLEAR SAFETY
ANL-6840 N64-16299 08-23

HYTHEST - IBM 7090 COMPUTER PROGRAM USING MONTE CARLO METHOD FOR EVALUATING CORRECTION FACTORS FOR NUCLEAR REACTOR CORES
EURAEC-987 N64-21193 14-23

BOILING WATER REACTOR STABILITY TESTS
GEAP-3971 N64-22191 15-23

TECHNOLOGY OF BOILING WATER AND LIQUID METAL

COOLED REACTORS
ANL-6904 N64-23326 16-23

BOILING WATER REACTORS, LIQUID METAL COOLED REACTORS, REACTOR TECHNOLOGY, AND ADVANCED SYSTEMS RESEARCH
ANL-6912 N64-28928 20-23

REACTOR DEVELOPMENT AND TECHNOLOGY - NUCLEAR SAFETY, BOILING WATER, AND LIQUID METAL COOLED REACTORS
ANL-6923 N64-29774 21-23

BOLOMETER
CF THERMOMETER
COMPARISON OF FERRELECTRIC BOLOMETER WITH OTHER THERMAL DETECTORS FOR SPACE INSTRUMENTATION
NASA-CR-55542 N64-15386 07-15

MILLIMETER AND SUBMILLIMETER WAVELENGTH DETECTOR INSTRUMENTS - SUBMILLIMETER RADIOMETER AND CARBON BOLOMETER
NASA-CR-53871 N64-19958 12-08

GERMANIUM BOLOMETER DETECTOR OF MILLIMETER WAVELENGTH THERMAL ENERGY N64-25626 17-15

SCALE OF BOLOMETRIC CORRECTIONS OF CELESTIAL BACKGROUND RADIATION
AFCRL-64-169/1/ N64-26831 18-28

CERAMIC FERROELECTRIC BOLOMETERS FOR ASTRONOMY
N64-29384 21-15

FERROELECTRIC BOLOMETER, SEMICONDUCTOR DIODES, AND FERRITE MODULATAOR FOR SUBMILLIMETER WAVE RECEIVER
NASA-CR-58947 N64-33206 24-08

BOLTZMANN EQUATION
EFFECT OF COLLISION SIZE ON BOLTZMANN EQUATION
R63SD87 N64-10314 01-23

RAREFIED GASES - SOLUTION OF LINEARIZED BOLTZMANN INTEGRAL EQUATION FOR SOUND PROPAGATION IN MAXWELL GAS AND RIGID SPHERE GAS
AFCRL-63-880 N64-11464 03-23

INTERPRETATION OF RUNAWAY EFFECT IN COLLISIONLESS PLASMA - LINEARIZATION OF BOLTZMANN EQUATION
N64-14224 06-24

RELAXATION MODEL OF BOLTZMANN EQUATION FOR AERODYNAMICS OF RAREFIED GASES N64-16600 08-23

COLLISIONLESS EXPANSION OF GASES OF FINITE AMOUNT INTO VACUUM - BOLTZMANN EQUATIONS
N64-17571 09-11

TRANSPORT EQUATIONS FOR PARTIALLY IONIZED GAS IN ELECTRIC FIELD DERIVED FROM BOLTZMANN EQUATION
NASA-TN-D-2279 N64-19291 11-11

BOLTZMANN EQUATION FOR RADIATIVE HEAT TRANSFER OF FINITE PARTICLES AND SOLUTION FOR LIGHT SCATTERING PROBLEMS
RM-3937-ARPA N64-19551 12-23

ANISOTROPIC SCATTERING APPROXIMATIONS IN BOLTZMANN NEUTRON TRANSPORT EQUATION
LA-3051 N64-20826 14-23

KINETIC EQUATION OF CLASSICAL BOLTZMANN GASES
PUBL.-64-2 N64-21561 15-23

INTEGRAL-MOMENT METHOD OF SOLVING BOLTZMANN KINETIC EQUATION
FTD-TT-63-1033/1&2 N64-21966 15-11

USE OF BOLTZMANN EQUATION TO DERIVE DISPERSION LAW FOR COLLISIONS IN LONGITUDINAL PLASMA WAVES AND TRANSVERSE WAVE PROPAGATION
DI-82-0273 N64-29898 21-24

NUMERICAL METHOD FOR SOLUTION OF LINEARIZED BOLTZMANN EQUATION FOR HARD SPHERE MOLECULES WITH APPLICATION TO COUETTE FLOW
R64SD53 N64-30956 22-11

MULTIGROUP ONE-DIMENSIONAL SPHERICAL HARMONIC SOLUTIONS TO BOLTZMANN TRANSPORT EQUATION
IDO-16998 N64-31062 22-23

STATISTICAL ANALYSIS OF NEUTRON DISTRIBUTION IN NEUTRON LOGGING PROBLEMS - BOLTZMANN EQUATION
N64-31796 23-12

INTERACTION OF ELECTROMAGNETIC WAVES AND CLASSICAL PLASMAS - DISTRIBUTION FUNCTION THEORY AND BOLTZMANN EQUATION
R-7-64-1 N64-32159 23-14

NUCLEAR CRITICALITY CALCULATIONS ON SPHERICALLY SYMMETRIC GASEOUS-CORE REACTOR - BOLTZMANN TRANSPORT EQUATION
GNE/PHYS-64-14 N64-33865 24-23

BOLZA PROBLEM
OPTIMUM TRAJECTORY PATH COMPUTATIONS IN PROBLEM OF BOLZA
RP-43 N64-18900 11-17

BOMB
DAMAGE CAUSED BY BOMB ATTACKS REPRESENTED AS DOUBLE INTEGRAL FOR ANY GEOMETRICAL SHAPE AND SIZE OF TARGET
ORA-63-16 N64-16654 08-11

UNMANNED RECONNAISSANCE AIRCRAFT & NAPALM BOMBS
FTD-TT-62-1706/1&2 N64-23289 16-14

FLIGHT CHARACTERISTICS OF BOMB WITH CRUCIFORM TAIL
WRE-TN-SAD-102 N64-28732 20-12

BOMBARDMENT
SA ELECTRON BOMBARDMENT
SA ION BOMBARDMENT
PRODUCTION OF OXYGEN-FLUORINE COMPOUNDS BY COBALT AND HYDROGEN BOMBARDMENT
AD-428142 N64-15688 07-07

BOMBARDMENT AND IRRADIATION PRODUCTION METHODS FOR OXYGEN-FLUORIDE RADICALS
AD-437465 N64-20186 13-07

DIMENSIONAL STABILITY AND CHANGE OF PYROLYTIC CARBON UNDER BOMBARDMENT BY FISSION FRAGMENTS
BMI-1679 N64-26872 19-23

HIGH TEMPERATURE BEHAVIOR OF BOMBARDED AND UNBOMBARDED SILICON AND GALLIUM ARSENIDE CELLS OF VARIOUS RESISTIVITIES N64-29168 21-04

BOMBER AIRCRAFT
RUSSIAN DESYATKA BOMBER FLYING ROCKET LAUNCHING MISSION IN STRATOSPHERE
FTD-TT-63-321/1&2 N64-12085 03-12

PRACTICE FLIGHT MISSION OF INTERCONTINENTAL BOMBER AIRCRAFT
FTD-TT-63-943/1 N64-23429 16-11

GROUND MEASUREMENT OF SONIC BOOM PRESSURE FOR FIGHTER AND BOMBER AIRCRAFT AT STRATOSPHERIC ALTITUDES
NASA-TR-R-198 N64-24824 17-04

BONDI-G
EVALUATION OF METAL-TO-METAL BASKET-TYPE ELECTROLYTIC DISSOLVER FOR NUCLEAR FUELS
IDO-14604 N64-11807 03-17

ADHESION MECHANISMS BETWEEN SOLID METAL SURFACES
NASA-TN-D-2228 N64-14730 06-13

METAL-TO-METAL BONDING AND BONDING OF COVER PLATES ON HONEYCOMB PLATES TESTED WITH SUPERSONIC-IMPULSE-ECHO APPARATUS
DFL-217 N64-15023 07-17

ADHESION BETWEEN ATOMICALLY PURE METALLIC SURFACES
NASA-CR-58714 N64-29217 21-13

FORCES OF ADHESION BETWEEN CLEAN METALLIC SOLIDS - ATOMISTIC APPROACH N64-29219 21-13

EVALUATION OF ELECTRICALLY CURED STRUCTURAL ADHESIVES FOR METAL-TO-METAL BONDING AND HONEYCOMB

SANDWICH CONSTRUCTION
NA64H-377-1 N64-32221 23-19

QUALIFICATION TESTS ON ELECTRICALLY CURED STRUCTURAL ADHESIVES FOR METAL-TO-METAL BONDING AND HONEYCOMB SANDWICH PANELS
NA64H-377-2 N64-32513 23-19

BONDING
SA JOINT
SA METAL BONDING
SA SOLDERING
CF ADHESION
CF WELDING
SINTERED ALUMINUM OXIDE BONDING USING SILICATE BRAZING FOR REACTOR CLADDING
EUR-274.F N64-10034 01-19

METALLURGICAL BONDING BETWEEN PLASMA SPRAYED TUNGSTEN & HOT TUNGSTEN SUBSTRATES - INTERFACE & RECRYSTALLIZATION
NASA-RP-41 N64-10286 01-24

CLEANING PROCEDURES FOR ZIRCALOY PRESSURE BONDING
NAPD-TM-375 N64-10366 01-17

CUTTING ALUMINUM SINGLE CRYSTALS, DISLOCATIONS IN DEFORMED METALS, & STRENGTH OF METAL TO CERAMIC BOND
JPRS-18889 N64-11215 02-18

CHROMIUM AS A METALLIC BONDING & DIFFUSION BARRIER BETWEEN URANIUM & ALUMINUM
EUR-413.F N64-11263 02-18

DIFFUSION COUPLE BONDING TECHNIQUE FOR OBTAINING DATA ON DIFFUSION KINETICS OF ALUMINUM-NICKEL-URANIUM SYSTEM
NAA-SR-8387 N64-11911 03-25

BONDING IN OXIDE FIBER WHISKER REINFORCED METAL MATERIALS
AMRA-CR-63-01/2 N64-12044 03-19

SURFACE TENSION, BONDING, & OTHER CHARACTERISTICS OF SOLIDS & LIQUIDS
FTD-TT-62-1831/1&2&4 N64-12360 03-23

CERAMIC TO METAL SEALS FOR HIGH-TEMPERATURE THERMIONIC CONVERTERS
ATD-TDR-63-4109 N64-12672 04-19

BONDING FOAM PLASTICS BY INTERNAL HEATING IN HIGH FREQUENCY FIELD
ASIC-85 N64-12920 04-19

BONDING IN OXIDE-FIBER REINFORCED MATERIALS - EFFECTS OF IMPURITIES
AMRA-CR-63-01/3 N64-12935 04-18

NONDESTRUCTIVE TESTING OF BONDED METAL JOINTS
DFL-216 N64-15022 07-17

CONTAINERS, BONDING, AND ELECTROLYTES FOR SILVER-CADMIUM BATTERY
NASA-CR-55792 N64-16036 07-06

THEORY OF X-RAY ABSORPTION OF MOLECULAR BONDING IN GASES AND IONIC CRYSTALS IN SOLUTIONS
N64-16217 08-23

FLEXIBLE POLYMER FILM AND ADHESIVE RESIN BONDING OF ALUMINUM TO ALUMINUM - LOAD AND VIBRATION TEST
NASA-CR-55721 N64-16272 08-34

MATERIAL TESTING FOR ABLATION SHIELD - BERYLLIUM PRODUCTION FOR ADHESIVE BONDING
A471 N64-16879 08-13

MECHANICAL FASTENING, ADHESIVE BONDING, AND BRAZING APPLIED TO PROBLEM OF ATTACHMENT IN BRITTLE NONMETALLIC MATERIALS
AD-428202 N64-19935 12-19

EFFECTS OF RADIATION & HIGH TEMPERATURE ON CERAMIC BONDED FILM LUBRICANT MATERIALS
FTDR-3053 N64-20049 13-17

REACTOR RADIATION EFFECTS ON CERAMIC-BONDED SOLID-FILM LUBRICANT
NMRF-63-6T N64-21563 15-17

METALLOGRAPHIC EXAMINATION OF NIOBIUM ALLOY CORE JOINTS
A741 N64-22585 15-18

SOLID STATE BONDING N64-23176 16-25

BONDING AGENTS AND BASIC PROPERTIES OF ADHESIVES
FTD-TT-62-1617/1&2 N64-23381 16-18

FABRICATION AND BONDING OF QUARTZ CRYSTALS FOR SINGLE SIDEBAND VOICE COMMUNICATIONS EQUIPMENT
REPT.-2 N64-25618 17-25

MOLECULAR STRUCTURE & CLEAVAGE OF OXYGEN-OXYGEN BONDS
AROD-2454-7 N64-26645 18-07

BONDING AND PYROLYSIS CHARACTERISTICS OF TWO SYNTHETIC BINDERS FOR GRAPHITE MATERIALS
WADD-TR-61-72, VOL. XL N64-26894 18-19

EVALUATION OF THERMOCOMPRESSION BONDING PROCESS FOR INTRACONNECTION OF ACTIVE SEMICONDUCTOR DICE
N64-27659 19-25

PARAMETERS AND STRUCTURES OF CARBON-OXYGEN BONDS
AFCRL-64-508 N64-28609 20-07

BONDING BETWEEN GLASS AND PLASTICS
NASA-CR-58695 N64-28895 20-19

NUCLEAR RADIATION EFFECTS ON CERAMIC-BONDED, RESIN-BONDED, AND METAL-MATRIX-BONDED SOLID FILM LUBRICANTS
NARF-63-11T N64-29801 21-17

MOLECULAR STRUCTURE FROM BOND STRETCHING FREQUENCY IN POLYETHYLENE COMPOUNDS BY INFRARED SPECTROSCOPY
AFCRL-64-744 N64-32666 23-07

ULTRAVIOLET SPECTRA AND MOLECULAR BONDING PROPERTIES OF FLUORIDES
PR-5 N64-32961 24-07

METALLURGICAL BONDING OF PLASMA SPRAYED TUNGSTEN ON HOT MOLYBDENUM SUBSTRATES
NASA-RP-342 N64-33061 24-17

EFFECT OF CHLORINE SUBSTITUTION ON ADHESIVE BOND STRENGTH OF EPOXY RESIN
PA-TM-1396 N64-33067 24-19

BONE
SA SKELETON
SOVIET SCIENCE - OPTIMAL CONTROL, RADICALS, RESONANCE SPECTRA, DETRITUS ANALYSIS, BONE REGENERATION, & MAGNETIC FIELD EFFECT ON BIOLOGY
JPRS-20231 N64-12493 04-01

ELECTRON MICROSCOPE INVESTIGATION OF CARTILAGE CELL DIFFERENTIATION IN REGENERATING BONE
N64-12497 04-16

BED REST STUDY OF RADIOGRAPHIC BONE DENSITY AND URINE ANALYSIS FOR CALCIUM AND PHOSPHORUS
NASA-CR-55313 N64-14898 06-16

BONE MARROW
SA LEUKEMIA
MITOTIC CYCLE OF BONE MARROW CELLS IN MICE BY AUTORADIOGRAPHY
JPRS-21629 N64-10069 01-16

BONE MARROW TRANSPLANTATION EFFECT ON DOGS WITH ACUTE RADIATION SICKNESS
JPRS-22591 N64-12149 03-16

NUCLEIC ACID METABOLISM IN RAT SPLEEN AND BONE MARROW DURING ACUTE RADIATION SICKNESS
N64-12781 04-16

FLUORESCENT MICROSCOPIC INVESTIGATION OF FORMED ELEMENTS IN BLOOD AND BONE MARROW DURING RADIATION SICKNESS N64-12782 04-16

SEDIMENTATION RATES OF NUCLEATED AND NONNUCLEATED

CELLS OF NORMAL RAT BONE MARROW
N64-15210 07-16

EFFECT OF INJECTION OF BONE MARROW CELLS ON MORPHOLOGICAL MANIFESTATIONS OF INFLUENZA IN X-RAY IRRADIATED MICE
JPRS-24056 N64-18096 10-16

BONE MARROW TRANSPLANTATION AFTER WHOLE-BODY IRRADIATION OF RAT
EUR-484.E N64-19296 11-16

DISTRIBUTION OF BONE MARROW IN SKELETON OF HUMAN BODY, RABBIT, AND RAT, USING RADIOACTIVE IRON ISOTORE AND POSITRON SCINTILLATION CAMERA
N64-22853 16-16

FREE STREAM FRACTIONATION OF CELLS IN RAT BONE MARROW
N64-22857 16-16

CHANGES OF HEMATOPOIETIC TISSUE IN DOG WITH ACUTE RADIATION SICKNESS AFTER BONE MARROW TRANSPLANT
JPRS-25261 N64-26055 18-16

BOOLEAN ALGEBRA
CF LOGIC
PROBLEMS IN BOOLEAN ALGEBRA & TURING MACHINES
JPRS-18244 N64-10499 01-20

COMPUTER PROGRAM FOR RESOLUTION OF BOOLEAN ALGEBRA EQUATIONS
EUR-126.I N64-10980 02-20

ANALYSIS AND SYNTHESIS, WITH BOOLEAN ALGEBRA, OF TRANSITION-COUPLED ASYNCHRONOUS COUNTERS
NASA-CR-52688 N64-11119 02-20

LATTICE AXIOMS FOR BOOLEAN ALGEBRAS
N64-19232 11-20

CODE FOR SOLUTION OF SYSTEMS OF BOOLEAN EQUATIONS
EUR-211.F N64-20870 14-20

DECOMPOSITION OF CONES IN MODULES OVER ORDERED RINGS - BOOLEAN ALGEBRA
MRC-463 N64-22602 15-20

CONVERSION OF LOGICAL SCHEMES OF ALGORITHMS TO BOOLEAN FUNCTIONS FOR CONTROL CIRCUIT STRUCTURE
NASA-TT-F-9006 N64-27327 19-20

REALIZATION OF BOOLEAN FUNCTIONS USING DIODE CONJUNCTION MATRICES
EUR-600.E, F N64-28091 20-20

BOOLEAN FUNCTION
ALGEBRAIC AND STATISTICAL THEORY FOR BOOLEAN FORMULAS
AFCRL-64-139 N64-19630 12-20

REALIZATION OF BOOLEAN FUNCTIONS IN THRESHOLD ELEMENTS
N64-24691 17-20

BOOM
SA SONIC BOOM
ENERGY ABSORBER FOR ARIEL I INSTRUMENT BOOMS
NASA-TM-X-936 N64-12873 04-06

FEASIBILITY OF LARGE FOLDING BOOMS FOR SPACECRAFT APPLICATIONS
NASA-TM-X-941 N64-12875 04-06

BOOSTER
COST ANALYSIS OF BOOSTER COMBINATIONS FOR PLANETARY EXPLORATION
P-2769 N64-15918 07-31

ACOUSTICAL VIBRATION DYNAMIC ENVIRONMENT FOR LARGE BOOSTER LAUNCH FACILITY
N64-18543 11-10

SOLUTION OF BOUNDED PHASE COORDINATE OPTIMAL CONTROL PROBLEM WITH USE OF PENALTY FUNCTIONS - ROCKET BOOSTER CONTROL
NASA-CR-59 N64-21054 14-20

ROCKET BOOSTER CONTROL - SUFFICIENT CONDITION IN OPTIMAL CONTROL
NASA-CR-50 N64-21253 14-10

ROCKET BOOSTER - CONTROL SYSTEM AND CONTROL VARIABLES
NASA-CR-49 N64-22016 15-20

TIME OPTIMAL CONTROL WITH AMPLITUDE AND RATE LIMITED CONTROL - ROCKET BOOSTER CONTROL
NASA-CR-48 N64-23030 16-06

EXPANDABLE SPACECRAFT DESIGN, MISSION REQUIREMENTS, AND BOOSTER CAPABILITIES
N64-23702 16-31

LINEAR PROGRAMMING AND BOUNDED PHASE COORDINATE CONTROL - ROCKET BOOSTER CONTROL SYSTEM
NASA-CR-56650 N64-23851 16-30

USE OF MAN IN BOOSTER GUIDANCE AND CONTROL
NASA-CR-81 N64-24830 17-22

RECOVERABLE HYPERSONIC AIRCRAFT AS BOOSTER SYSTEM
AIAA PAPER-64-543 N64-26409 18-31

REUSABLE BOOSTER FOR LUNAR LOGISTICS AND PLANETARY EXPLORATION
DOUGLAS PAPER-1887 N64-28806 20-31

DYNAMICS OF BOOST VEHICLES IN PRESENCE OF EXTERNAL EXCITATIONS
NASA-CR-58357 N64-28839 20-33

ROCKET BOOSTER CONTROL STUDIES - TIME OPTIMAL CONTROL WITH AMPLITUDE AND RATE LIMITED CONTROL VARIABLES
NASA-CR-58577 N64-28957 20-06

CLEANING OF FLEXIBLE STAINLESS STEEL BOOSTER VEHICLE FUEL AND OXYGEN LINES
NASA-CR-58585 N64-29000 20-17

BOOSTER PARAMETRIC DESIGN METHOD FOR PERFORMANCE AND TRAJECTORY ANALYSIS - PROPULSION
NASA-TM-X-53053 N64-29178 21-27

GUIDANCE SYSTEM EQUATION FOR NEAR OPTIMUM PITCH STEERING IN FIRST AND SECOND STAGE THRUST PROPULSION BOOSTER
TOR-269/4540-70/-3 N64-30653 22-22

SPACE PROGRAMS FOR PERIOD 1962-1975 - BOOSTERS, DESIGNATIONS, DIMENSIONS, COST, AND LAUNCH DATES
SP-3 N64-30775 22-30

TEST FACILITY FOR SIMULATION OF LIQUID IMPACT IN SPACE VEHICLE AND BOOSTER TANK
NASA-CR-59016 N64-32897 24-11

BIBLIOGRAPHY ON WIND-INDUCED OSCILLATIONS OF SATURN BOOSTER IN VERTICAL LAUNCH POSITION
NASA-CR-59329 N64-33769 24-33

EFFECT ON LAUNCH PROBABILITY DUE TO ADDITION OF 30 PERCENT BY WEIGHT LIQUID FLUORINE TO 70 PERCENT LIQUID OXYGEN IN ATLAS BOOSTER
GD/A-DDB-64-024 N64-33874 24-26

BOOTSTRAP EQUATION
BOOTSTRAP EQUATIONS FOR P1-N SYSTEM EVALUATION OF N & N33
N64-13290 04-23

BOOTSTRAP APPROXIMATION TO PREDICT PI-ETA MESON RESONANCE
UR-875-5 N64-19486 12-23

BORANE
CF HYDRIDE
SUPPRESSION OF PENTABORANE FIRES AND EXPLOSIONS IN AIR BY MEANS OF DIFFUSION BURNER & HETEROGENEOUS SHOCK TUBE
RTD-TDR-63-4007 N64-12311 03-26

HEAT OF FORMATION OF LIGHT ELEMENT COMPOUNDS - MODIFICATIONS OF APPARATUS & METHOD, CALORIMETER CALIBRATION, AND DATA ON HYDRAZINE MONOBORANE
UACRL-B910078-2 N64-14965 06-07

TRANSFER AND ADMINISTRATION OF PENTABORANE-9 TO SMALL MAMMALS
AMRL-TDR-63-128 N64-16585 08-16

VAPOR PHASE HYDROLYSIS OF PENTABORANE-9
AMRL-TDR-63-129 N64-16800 08-07

SINGLE-CRYSTAL X-RAY ANALYSIS OF 1-ETHYLDECABORANE MOLECULAR STRUCTURE N64-18808 11-07

POLAROGRAPHIC MEMBRANE FOR DETECTING PENTABORANE GAS - INFRARED DETECTOR - ANALYSIS OF CRYOGENIC PROPELLANTS & PENTABORANE-HYDRAZINE FIRING RESIDUE
R-5462 N64-21061 14-26

CHEMICAL REACTIONS OF ORGANOBORANES AND CYCLIC SILICON HYDROCARBONS
TR-21 N64-23244 16-07

MICROWAVE SPECTROSCOPIC METHODS FOR MOLECULAR STRUCTURE DETERMINATION OF 2,4-DICARBAHEPTABORANE
NASA-CR-56465 N64-23937 16-07

INJECTOR CONFIGURATIONS AND ABLATIVE THRUST CHAMBER MATERIALS FOR USE WITH OXYGEN DIFLUORIDE-DIBORANE PROPELLANT COMBINATIONS
NASA-CR-58800 N64-30525 22-26

ELECTRONIC STRUCTURE OF DIIODO DECABORANE
01-82-0352 N64-30637 22-23

COMBUSTION & FORMATION HEATS OF CRYSTALLINE BORON AND TRIMETHYLAMINEBORANE
AD-402335 N64-30679 22-07

PREPARATION OF THERMALLY STABLE CARBORANE SILICONE MATERIALS FOR USE AS EMBEDDING COMPOUNDS AND ELASTOMERS
AMD-5026-F N64-31265 22-07

PREPARATION AND CHEMICAL AND PHYSICAL PROPERTY STUDY OF BORANE AND TRIBOROHYDRIDE DERIVATIVES OF METHYLATED POLYAMINES
UCRL-7973 N64-33237 24-07

BORATE
ELECTRO-OXIDATION OF 1,2 BIS/DIPHENYL/BORATE ION
AMSD-2814-3 N64-10552 01-07

INFRARED TRANSMISSION SPECTRA OF RUBIDIUM BORATES OF VARYING COMPOSITION
USNRDL-TR-705 N64-22952 16-19

THERMODYNAMICS OF ALUMINUM-BORON-OXYGEN AND BERYLLIUM-BORON-OXYGEN SYSTEMS
QR-8 N64-27606 19-13

THERMODYNAMICS OF ALUMINUM-BORON-OXYGEN AND BERYLLIUM-BORON-OXYGEN SYSTEMS
QR-5 N64-27607 19-13

STRUCTURE AND ION EXCHANGE PROPERTIES OF MOLTEN SODIUM BORATE USING RARE RADIOACTIVE TRACERS
USNRDL-TR-760 N64-30880 22-07

BORIDE
TESTS OF BORIDES OF TITANIUM, ZIRCONIUM, TANTALUM, HAFNIUM, AND NIOBIUM AS COMPOUNDS WITH HIGH TEMPERATURE OXIDATION RESISTANCE
ATD-TDR-63-4096, PT. 1 N64-15100 07-19

KINETIC & THERMODYNAMIC PROPERTIES OF REFRACTORY METAL BORIDES & NITRIDES
UCRL-7559 N64-17073 09-19

MIXED METAL DIBORIDES OF TITANIUM-VANADIUM, TITANIUM-NIOBIUM, AND TITANIUM-TANTALUM
BM-RI-6407 N64-17715 09-19

CORROSION RESISTANCE OF DIBORIDES IN PSEUDOBINARY SYSTEM TITANIUM BORIDE-CHROMIUM BORIDE
BM-RI-6418 N64-17986 10-19

STABILITY OF SELECTED OXIDES, NITRIDES AND BORIDES IN MOLYBDENUM TO 4000 DEG F
SSD-TDR-64-88 N64-22560 15-18

X-RAY ANALYSIS OF RECRYSTALLIZATION OF BORIDES OF TITANIUM, ZIRCONIUM, AND MOLYBDENUM AND CARBIDES OF TITANIUM AND TUNGSTEN
JPRS-16059 N64-28632 20-07

X-RAY ANALYSIS OF RECRYSTALLIZATION OF BORIDES OF TITANIUM, ZIRCONIUM, AND MOLYBDENUM AND CARBIDES OF TITANIUM AND TUNGSTEN
JPRS-16059 N64-28632 20-07

VAPOR DEPOSITION OF BORIDES OF TITANIUM, HAFNIUM, AND ZIRCONIUM
R645D46 N64-29433 21-07

CHEMICAL PROPERTIES AND QUALITATIVE ANALYSIS OF CARBIDES, BORIDES, AND NITRIDES
FTD-TT-63-814/1&2 N64-30689 22-07

PACKING OF INTERSTITIAL DODECABORIDE GROUPS IN BORON AND BORIDE STRUCTURES
TR-3 N64-30753 22-25

SCALE UP & THERMAL TESTING OF ZIRCONIUM-BORIDE-MOLYBDENUM-SILICIDE REFRACTORY CERAMIC COMPOSITE FOR LEADING EDGES OF HYPERSONIC VEHICLES
REPT.-2170-900204 N64-33655 24-34

BORN APPROXIMATION
FORTRAN COMPUTER PROGRAM FOR CALCULATION OF TRANSITION AMPLITUDES AND CROSS SECTIONS FROM DISTORTED-WAVE BORN APPROXIMATION
NASA-TN-D-2170 N64-15329 07-29

BORN APPROXIMATION FOR CALCULATING SCATTERING CROSS SECTION FROM CHARGED PARTICLE AND ATOMIC COLLISION N64-17008 09-23

CROSS-POLARIZED ELECTROMAGNETIC BACKSCATTER USING SECOND BORN APPROXIMATION
DANP-TN-64-01 N64-33717 24-24

BORON
ANNIHILATION OF VACANCIES DURING CREEP WITH REPLACEMENT BY NITROGEN, BORON, OR CARBON AS A FACTOR IN INCREASED HEAT-RESISTANCE IN STEEL
N64-10792 02-18

MASS SPECTROMETRIC STUDIES OF BORON-CARBON-SILICON SYSTEMS, AND REDETERMINATION OF ATOMIZATION ENERGY OF THESE MOLECULES
WADD-TR-60-782, PT. 13 N64-11172 02-18

CHARACTERISTICS OF BORON FLAMES - ROCKET FUEL USE - SQUID PROJECT
RMD-3-P N64-11435 02-26

DETERMINATION OF TRACE AMOUNTS OF BORON IN MOLYBDENUM
RTD-TDR-63-4082 N64-12578 04-07

PRESSURE COMPOSITION MEASUREMENTS AND PHASE DIAGRAM FOR BERYLLIUM-BORON-OXYGEN & ALUMINUM-BORON-OXYGEN SYSTEMS
QR-5 N64-14171 06-19

THERMOCHEMISTRY OF BORON, TIN, AND GERMANIUM ALKYLATES
FTR-2 N64-14361 06-07

ACTIVATION ANALYSIS FOR BORON AND LITHIUM
AFCRL-63-575 N64-14662 06-23

BORON, BORON CARBIDE, & TITANIUM CARBIDE FILAMENTS PRODUCED BY VACUUM DEPOSITION - TENSILE TESTING OF SELECTED FILAMENT MATERIALS
BMPR-1 N64-14676 06-19

BORON-11 TO CARBON-12 TRANSMUTATION REACTION UNDER PROTON IRRADIATION
KFKI-14/1963/ N64-15987 07-23

COMBUSTION OF ELEMENTAL BORON WITH FLUORINE - DEPENDENCE OF REACTION MECHANISMS ON TEMPERATURE AND PRESSURE
TEI-TP-209 N64-16444 08-26

SYNTHESIS OF ELASTOMERS CONTAINING BORON
RIA-64-230 N64-16987 09-07

COPOLYCONDENSATION OF BORON AND PHOSPHORUS DIFUNCTIONAL ACIDS N64-18486 10-07

THERMODYNAMIC PROPERTIES OF PROPELLANT COMBUSTION PRODUCTS - VAPORIZATION OF BORON AND ENTROPIES OF GASEOUS METAL HALIDES
U-2403/2 N64-18742 11-26

PRODUCTION METHODS FOR POLYCRYSTALLINE BORON AND MECHANICAL PROPERTIES OF BORON CASTINGS
HR-64-255 N64-21497 15-18

BORON PREPARATION METHOD
BM-RI-6456 N64-21610 15-07

OBTAINING ELEMENTAL BORON BY HYDROGEN REDUCTION OF BORON HALIDES
FTD-TT-62-1638/1&2&4 N64-21656 15-07

BORON PARTICLE SIZE, SPECTROCHEMICAL ANALYSIS, PYROHYDROLYSIS, MOLYBDENUM AND TECHNETIUM HYDROLYSIS
NBL-210 N64-23061 16-23

CLEAVAGE ENERGY OF BORON BOND AND PHYSICAL PROPERTIES OF RARE EARTH TITANATES
JPRS-25530 N64-26398 18-07

EMPIRICAL FORMULAS FOR CLEAVAGE ENERGY OF BORON BOND N64-26399 18-07

PRODUCTION OF BORON BY PLASMA TORCH REDUCTION OF BORON FLUORIDE
KY-453 N64-26650 18-07

THERMODYNAMICS OF ALUMINUM-BORON-OXYGEN AND BERYLLIUM-BORON-OXYGEN SYSTEMS
QR-8 N64-27606 19-13

THERMODYNAMICS OF ALUMINUM-BORON-OXYGEN AND BERYLLIUM-BORON-OXYGEN SYSTEMS
QR-5 N64-27607 19-13

MECHANICAL PROPERTIES OF BORON - FRACTURE AND CRACK PROPAGATION
HR-66-266 N64-27699 19-18

GROWTH AND TENSILE STRENGTH TESTING OF BORON AND BORON COMPOSITE FILAMENTS
NASA-CR-96 N64-28315 20-18

RATE EQUATIONS DERIVED FOR SIX-LEVEL MASER USING CROSS RELAXATIONS BETWEEN SPIN LEVELS IN PHOSPHORUS-BORON DOPED SILICON
AFCRL-64-243 N64-28577 20-25

EFFECT OF BORON ON RECOVERY AND RECRYSTALLIZATION OF PURE IRON & EFFECT OF PRECIPITATED IMPURITIES AND STRAIN ON GRAIN GROWTH IN PURE IRON
AD-602137 N64-28863 20-25

IMPURITY EFFECT ON RADIATION DAMAGE OF SILICON SOLAR CELLS - TENDENCY OF BORON ATOMS IN SILICON TO CREATE RECOMBINATION CENTERS
N64-29158 21-06

MECHANICAL AND MICROMECHANICAL PROPERTIES OF BORON - THERMAL STRESS AND FRACTURE STRENGTH MEASUREMENTS
IR-3 N64-30601 22-25

COMBUSTION & FORMATION HEATS OF CRYSTALLINE BORON AND TRIMETHYLAMINEBORANE
AD-402335 N64-30679 22-07

PACKING OF INTERSTITIAL DODECABORIDE GROUPS IN BORON AND BORIDE STRUCTURES
TR-3 N64-30753 22-25

HIGH PRESSURE RESEARCH ON ORGANIC FLUOROCARBON AND INORGANIC SYNTHESIS IN BORON-PHOSPHORUS-NITROGEN-CARBON SYSTEM
AROD-3177-3 N64-32369 23-07

THERMAL DIFFUSION, ABSORPTION, AND TRANSPORT NEUTRON CROSS SECTIONS FOR WATER, HEAVY WATER, AND BORON
AECL-2072 N64-33266 24-23

REACTIONS OF BERYLLIUM WITH ALUMINUM, NITROGEN, BORON, AND PHOSPHORUS
NAVWEPS-8204 N64-34003 24-18

BORON ALLOY
ALLOYS OF RARE EARTH METALS WITH BORON AND SILICON
JPRS-17750 N64-10717 02-

PHASE DIAGRAMS OF BORON-SILICON ALLOY SYSTEMS
AID-T-63-119 N64-11466 03-

ALLOYING OF AUSTENITIC STEELS AND SEAMS WELDED STEELS WITH BORON TO INCREASE HEAT RESISTANCE
N64-24255 17-

DISPERSION-STRENGTHENED NICKEL, TITANIUM, CARBIDE AND BORON ALLOYS
ASD-TR-62-734, PT. II N64-32479 23-

BORON CARBIDE
PRECISE DETERMINATION OF LATTICE PERIODS OF BORON CARBIDES OF B2.75 TO B6.75 COMPOSITION BY ROENTGENOGRAPHS - LARGE-ANGLES METHOD
N64-10676 03-

IRRADIATION BEHAVIOR OF BULK BORON CARBIDE AND BORON CARBIDE-SILICON CARBIDE BURNABLE POISON PLATES FOR REACTOR CONTROL
WAPD-261 N64-11243 03-

THERMAL PROPERTIES OF REFRACTORY MATERIALS - BORON CARBIDE, NIOBIUM, TANTALUM, AND MOLYBDENUM ALLOYS AND ZIRCONIUM NITRIDE
ASD-TDR-63-597 N64-11471 03-

BORON, BORON CARBIDE, & TITANIUM CARBIDE FILAMENTS PRODUCED BY VACUUM DEPOSITION - TENSILE TESTING OF SELECTED FILAMENT MATERIALS
BMPR-1 N64-14676 04-

BORON CARBIDE AND SILICON CARBIDE POISONS AND METAL-CLAD ELEMENTS FOR REACTOR CONTROL
WAPD-244 N64-16693 04-

BORON CARBIDE FOR USE WITH CONTROL ROD CLADDING MATERIAL
NAA-SR-8702 N64-16885 04-

SYNTHESIS OF BORON CARBIDE FILAMENTS
NASA-CR-53750 N64-19175 11-

SYNTHESIS OF BORON CARBIDE FILAMENT
NASA-CR-56101 N64-20688 13-

WHISKER STRENGTH AND CRYSTAL STRUCTURE OF BORON CARBIDE FILAMENTS
NASA-CR-56230 N64-24112 14-

PHASES AND TWINNING IN TERNARY ALUMINUM BOROCARBIDE CRYSTALS
TR-2 N64-29241 21-

GROWTH AND MECHANICAL PROPERTIES OF BORON CARBIDE FILAMENTS
NASA-CR-59381 N64-33920 24-

BORON COMPOUND
PROPORTIONAL COUNTERS CONTAINING BORON TRIFLUORIDE FOR DETECTING WEAK NEUTRON FLUXES IN PRESENCE OF GAMMA RADIATION
EUR-300.F N64-10035 01-

STRUCTURAL AND HIGH TEMPERATURE TENSILE PROPERTIES OF BORON PYROLYTIC GRAPHITE
NASA-CR-53013 N64-13267 04-

LOW LOSS BORON NITRIDE CERAMIC DIELECTRICS
N64-16611 08-

HEAT OF COMBUSTION DETERMINATIONS OF ORGANIC BORON COMPOUNDS BY ROTATING-BOMB CALORIMETRIC METHOD
N64-18817 11-

APPARATUS FOR HEAT OF FORMATION MEASUREMENTS OF BORON COMPOUNDS - SOLID PROPELLANTS
N64-18818 11-

SUBLIMATION AND VAPORIZATION BEHAVIOR OF MIXED ALUMINUM-BORON-LITHIUM COMPOUNDS
N64-18819 11-

THERMODYNAMIC EVALUATION OF FORMATION HEAT OF

BORON OXYFLUORIDE-PRODUCING REACTION
N64-18822 11-13

INTERPRETATION OF ULTRAVIOLET SPECTRUM OF BORON FLUORIDE WITH IMPURITIES
AD-433692 N64-18888 11-23

TITRATION OF BORIC ACID IN AQUEOUS SOLUTION
UCRL-7756 N64-20271 13-07

REDUCTION CELL WITH GRAPHITE CRUCIBLE AND BORON NITRIDE LINER FOR REDUCTION OF ALUMINUM OXIDE
UR-RI-6265 N64-20506 13-17

CHEMICAL REACTIONS OF ORGANIC BORANE AND MERCURY ANTIMONY COMPOUNDS WITH BENZENE
N64-20926 14-08

PRODUCTION MECHANISMS FOR ORGANIC BORON COMPOUNDS
AD-434904 N64-22050 15-07

INFRARED RADIATION PROPERTIES OF FLAME SPRAYED CERAMIC COATINGS, OXIDES OF ALUMINUM, CHROMIUM, AND ZIRCONIUM, AND SOLID BORON NITRIDE
AMRA-TR-64-03 N64-22710 15-25

ACETYLENIC-BENZENE SOLUTION POLYMERIZATION USING TRIBORON FLUORIDE AS CATALYST N64-23006 16-07

CHEMICAL REACTIONS OF ORGANOBORANES AND CYCLIC SILICON HYDROCARBONS
TR-21 N64-23244 16-07

PRODUCTION OF BORON BY PLASMA TORCH REDUCTION OF BORON FLUORIDE
KY-453 N64-26650 18-07

WIRE COIL HEAT EXCHANGER RESISTOJET ENGINE - CONTACT EFFECTS BETWEEN BORON NITRIDE INSULATION AND TUNGSTEN HEATER ELEMENTS
AIAA PAPER-64-672 N64-28357 20-27

FORMATION HEAT OF BORON TRICHLORIDE
AD-604433 N64-29869 21-07

BORON PHOSPHIDE
CHINESE REPORTS ON LASERS, RUBY ABSORPTION LINES, BORON PHOSPHIDE DECOMPOSITION, CHARGED PARTICLE MOVEMENT, AND MATHEMATICAL MODELS IN CHEMISTRY
JPRS-23767 N64-17342 09-01

SEMICONDUCTOR MATERIALS - GALLIUM ARSENIDE AND GALLIUM ARSENIDE-GALLIUM PHOSPHIDE DIODE ARRAYS AND GROWTH OF BORON PHOSPHIDE CRYSTALS
AD-433725 N64-22056 15-25

BORON 10
PYROHYDROLYSIS FOR RECOVERY OF BORON-10 FROM SCRAP
KBL-206 N64-14248 06-07

BOSE-EINSTEIN STATISTICS
ANALYSIS OF WAVE FUNCTION FORMULA FOR IMPENETRABLE POINT PARTICLES FOLLOWING BOSE-EINSTEIN STATISTICS FOR MOMENTUM DISTRIBUTION IN INFINITE SYSTEM
MATT-223 N64-13225 04-23

BOSE GEOMETRY
CONSTRUCTION OF PARTIAL GEOMETRIES AND PARTIAL BOLYAI-LOBACHEVSKY PLANES
RM-110 N64-29434 21-20

BOSON
NEUTRINO EXPERIMENTS - VECTOR BOSONS, MUON & ELECTRON CONVERSION, AND NEUTRAL CURRENTS
N64-15502 07-23

VECTOR BOSON PRODUCTION AND DECAY - NEUTRINO EXPERIMENTS N64-15503 07-23

BUBBLE CHAMBER NEUTRINO EXPERIMENTS - PION & MUON PRODUCTION AND BOSON MASS DETERMINATION
N64-15506 07-23

MAGNETIC SPARK CHAMBER - NEUTRINO DETECTION, LEPTON CONSERVATION, & VECTOR BOSON REDUCTION SIGNATURES N64-15510 07-23

CALCULATION OF HIGH ENERGY NEUTRINO INTERACTIONS - CROSS SECTIONS & LIFETIMES AND VECTOR BOSON DECAY INTO NEUTRINO & ANTINEUTRINO N64-15513 07-23

POSSIBLE INSERTIONS OF FUNDAMENTAL INTERMEDIATE BOSON-CURRENT INTERACTION INTO UNITARY SYMMETRY GROUP - WEAK INTERACTIONS N64-18006 10-23

BOSON POLE APPROXIMATION FOR EXPLAINING THREE PION DECAY MODES OF KAONS AND FOR NEUTRAL KAON-2 MINUS NEUTRAL KAON-1 MASS DIFFERENCE
UR-875-29 N64-19906 12-23

BOSON APPROXIMATION USED IN EIGENVALUE EQUATIONS FOR NUCLEAR STRUCTURE DETERMINATION
RIFP-33 N64-20623 13-23

TWO VERSIONS OF WEAK INTERMEDIATE VECTOR BOSON THEORY WITHIN UNITARY SYMMETRY
UR-875-36 N64-26449 18-23

MASS DIFFERENCE AMONG BOSON MULTIPLETS
NUP-64-12 N64-29239 21-23

THEORY OF SUPERFLUID HELIUM BASED ON ELEMENTARY EXCITATIONS OF MANY-BODY SYSTEM OF BOSONS
ARDD-2813-4 N64-30558 22-23

BOSON FIELD
SYMMETRY THEORY OF WEAK AND STRONG ELECTROMAGNETIC INTERACTIONS IN BOSON INTERMEDIATE FIELD
N64-11000 02-23

STATISTICAL DESCRIPTION OF FREE BOSON FIELD
RM-4103-PR N64-27713 19-25

BOTANY
IONIZING RADIATION EFFECT ON MICROFLORA IN MEATS AND FOOD - BOTANY
JPRS-24187 N64-18968 11-16

BOUNDARY
CF INTERFACE
NONEQUILIBRIUM, NONSIMILAR SOLUTIONS OF LAMINAR BOUNDARY LAYER EQUATIONS
RAD-TM-63-58 N64-13601 05-11

GENERAL BOUNDARY LAYER EQUATIONS FOR COMPRESSIBLE LAMINAR FLOW INCLUDING EQUILIBRIUM DISSOCIATION
N64-15642 07-11

COMPUTER SOLUTION OF BOUNDARY LAYER EQUATIONS FOR COMPRESSIBLE LAMINAR FLOW
DOUGLAS PAPER-1657 N64-16506 08-11

SOLUTION OF BOUNDARY LAYER EQUATIONS BY DIFFERENCE METHOD
FTD-TT-63-285/1&264 N64-18123 10-20

SOLUTIONS OF BOUNDARY LAYER EQUATIONS FOR PURELY VISCOUS NON-NEWTONIAN FLUIDS
NASA-TN-D-2262 N64-18735 11-11

EQUATION FOR VON MISES BOUNDARY LAYER THEORY
FTD-MT-63-170 N64-18763 11-11

MODIFIED VELOCITY DEFECT LAW FOR TURBULENT BOUNDARY LAYER WITH INJECTION
COA-AERO-170 N64-19324 12-11

SOLUTION OF BOUNDARY LAYER EQUATIONS OF CURVED SURFACES
ARL-64-20 N64-21031 14-11

REITERATIVE METHOD FOR DETERMINING BOUNDARY SHAPE BETWEEN PLASMA AND MAGNETIC FIELD
NASA-RP-266 N64-26406 18-24

MAGNETOSPHERE TAIL MEASUREMENTS - TANGENTIAL BOUNDARY STRESSES
NASA-CR-58845 N64-33183 24-28

STABILITY CRITERION OF NUMERICAL TREATMENT OF BOUNDARY CONDITIONS FOR GENERAL NONLINEAR DIFFERENCE EQUATIONS
NYO-1480-4 N64-33435 24-20

BOUNDARY LAYER
SA DRAG
SA LAMINAR BOUNDARY LAYER
SA TURBULENT BOUNDARY LAYER

BOUNDARY LAYER CHARACTERISTICS ALONG UNDERSURFACES OF CARET WINGS
ARC-CP-694 N64-10055 01-03

SOLID AND LIQUID STATE DIFFERENCES - THERMAL ENERGY, BOUNDARY LAYERS, VISCOSITY, SURFACE TENSION, SINGLE-BOND ENERGY N64-10670 02-23

BOUNDARY-LAYER VELOCITY PROFILES AND SKIN FRICTION OF OGIVE CYLINDER AT SUPERSONIC SPEED - SURFACE ROUGHNESS EFFECT
NASA-TN-D-2048 N64-11555 03-11

APPROXIMATION THEORY FOR COMPRESSIBLE LAMINAR BOUNDARY LAYER WITH HEAT TRANSFER
DVL-281 N64-11952 03-11

NONEQUILIBRIUM BOUNDARY LAYER FLOWS OF FOUR-COMPONENT GAS MIXTURE AROUND NONABLATING BODIES
TDR-269/4230-10/-2 N64-12059 03-11

SMALL PERTURBATION THEORY FOR SHOCK TUBE FLOW ATTENUATION AND NONUNIFORMITY DUE TO WALL BOUNDARY LAYER
TDR-169/3230-12/TN-8 N64-12179 03-11

THERMAL BOUNDARY LAYER IN COMPRESSIBLE GAS FLOW
RSIC-11 N64-12204 03-11

DISTRIBUTION OF ELASTIC WAVES EXCITED BY SINGLE BOUNDARY EFFECT IN INFINITE ELASTIC LAYERS
AD-421986 N64-12282 03-11

BOUNDARY LAYER WIND VELOCITY AND ASSOCIATED TEMPERATURE DISTRIBUTIONS TO 1400-FEET IN TEXAS
AFCRL-63-738 N64-12608 04-09

BOUNDARY LAYER, FLIGHT CONTROL, AND STRUCTURAL DYNAMICS RESEARCH FOR X-15A AIRCRAFT
N64-12910 04-04

TWO-DIMENSIONAL TURBULENT BASE FLOW ANALYSIS - APPROACHING BOUNDARY LAYER EFFECT
ARC-R&M-3344 N64-13361 04-11

SURFACE RECOMBINATION OF DISSOCIATED ATOMS IN CHEMICALLY FROZEN BOUNDARY LAYERS
SSD-TDR-63-285 N64-13610 05-11

APPROXIMATION ON METHOD FOR SATISFYING BOUNDARY LAYER CONDITIONS BY SPECIFIC RADIANT INTENSITY IN RADIATION GAS DYNAMICS
AD-425986 N64-13980 05-23

SLIP EFFECTS ON COMPRESSIBLE LAMINAR BOUNDARY LAYER OVER SLENDER BODIES OF REVOLUTION WITH ZERO PRESSURE GRADIENT
NOLTR-63-85 N64-14086 05-02

HYPERSONIC BOUNDARY LAYER TRANSITION ON SMOOTH FLAT PLATE WITH SHARP LEADING EDGES
N64-14911 06-11

APPROXIMATION THEORY OF COMPRESSIBLE TURBULENT BOUNDARY LAYERS
DVL-136 N64-15248 07-11

NONEQUILIBRIUM EFFECT ON HYPERSONIC LAMINAR BOUNDARY LAYER
AVCO-EVERETT RES. REPT.-171 N64-15524 07-11

EXTENDED BOUNDARY LAYER THEORY FOR LAMINAR FLOW OF INCOMPRESSIBLE FLUIDS N64-15646 07-11

INSENSITIVITY OF HEAT TRANSFER TO INCLUSION OF FIRST ORDER SLIP BOUNDARY CONDITIONS FOR SIMILAR LAMINAR HYPERSONIC BOUNDARY LAYERS
P-2780 N64-15848 07-13

SKIN FRICTION AND STABILITY OF LAMINAR BOUNDARY LAYER ON FLAT PLATE WITH MASS TRANSFER
RM-3485-PR N64-16043 07-02

ATMOSPHERIC BOUNDARY LAYER STUDIED FROM 300-METER METEOROLOGICAL TOWER N64-16149 08-21

CALCULATION OF ZONES OF THERMAL BOUNDARY LAYER IN FLOW OF COMPRESSIBLE GAS
FTD-TT-63-84/162 N64-16413 08-13

MASS AND HEAT TRANSFER RATES FOR LARGE TEMPERATURE AND CONCENTRATION GRADIENTS IN BOUNDARY LAYERS
AD-430278 N64-16436 08-11

APPROXIMATION METHOD FOR HEAT AND MASS TRANSFER IN BOUNDARY LAYERS
AD-430289 N64-16467 08-23

COMPUTATION METHODS FOR VELOCITY DISTRIBUTION AND BOUNDARY LAYERS ON BODIES OF REVOLUTION
TRECOM-TR-63-47 N64-16617 08-02

INFLUENCE OF LEADING-EDGE GEOMETRY ON BOUNDARY-LAYER TRANSITION ON HOLLOW CYLINDERS AT MACH 8 WITH NEAR ADIABATIC WALL TEMPERATURE
AEDC-TDR-64-18 N64-17128 09-02

FLUID DYNAMICS RESEARCH - BOUNDARY LAYER THEORY
N64-17546 09-11

COMPUTER PROGRAMS FOR BOUNDARY LAYERS AND INVISCID FLOW FIELD AROUND HYPERSONIC AIRCRAFT
NASA-CR-53397 N64-18134 10-11

BOUNDARY LAYERS OF TURBULENT FLOWS AND PLASMA TURBULENCE - SQUID PROJECT N64-18853 11-24

COMPRESSIBLE LAMINAR BOUNDARY LAYER IN PRESSURE GRADIENT WITH SUCTION
PIBAL-807 N64-19141 11-11

SOLUTION TO PROBLEM OF TEMPERATURE FIELD IN TWO LAYER SYSTEM WITH DIFFERENT BOUNDARY CONDITIONS
FTD-TT-63-1135/1 N64-19761 12-13

BOUNDARY LAYER WITH PRESSURE GRADIENT IN COMPRESSIBLE FLUID FLOW
FTD-TT-63-1138/162 N64-19763 12-11

BOUNDARY LAYER AND CIRCULATION CONTROL ON THIN TWO-DIMENSIONAL AIRFOIL WITH SHARP LEADING EDGE
N64-19862 12-02

BEHAVIOR OF THREE-DIMENSIONAL TURBULENT BOUNDARY LAYER ON ANNULAR WING AT VARIOUS INCIDENCES
AD-428671 N64-19928 12-20

COEFFICIENT OF TURBULENT EXCHANGE IN ATMOSPHERIC BOUNDARY LAYER TO DETERMINE VERTICAL PROFILE AT VARIOUS TEMPERATURE STRATIFICATIONS
N64-20206 13-20

MATHEMATICAL DESCRIPTION OF VECTOR WIND SPIRAL IN ATMOSPHERIC BOUNDARY LAYER
ERDAA-MET-1-64 N64-20306 13-20

BOUNDARY LAYER TESTS IN VORTEX WIND TUNNEL - ROTOR STATOR BLADES
ARL/ME-255 N64-20552 13-11

SIMILAR SOLUTIONS FOR HYPERSONIC LAMINAR BOUNDARY LAYER NEAR PLANE OF SYMMETRY
PIBAL-825 N64-21293 14-11

APPROXIMATION METHOD OF COMPUTING THREE-DIMENSIONAL LAMINAR BOUNDARY LAYER FOR BLUNT BODY IN HYPERSONIC FLOW
FTD-TT-63-1136/1 N64-21663 15-11

UNSTEADY BOUNDARY LAYER THEORY
FTD-TT-63-778/162&4 N64-21743 15-11

HYPERSONIC & SUPERSONIC FLOWS, BOUNDARY LAYERS, STAGNATION REGIONS, PLASMA ACCELERATION, AND SHOCK TUNNEL EQUATION
FTD-TT-63-79/162 N64-23676 16-11

BOUNDARY LAYER DEVELOPMENT NEAR CRITICAL POINT OF BLUNT BODY N64-23679 16-11

BOUNDARY LAYER-SHOCK WAVE INTERACTIONS IN SUPERSONIC SEPARATED FLOW AND REATTACHED LAMINAR FLOW
TR-3 N64-25354 17-11

RELATION BETWEEN SKIN FRICTION AND HEAT TRANSFER ON SURFACE OF SPHERE AT SUPERSONIC SPEEDS - PRESSURE DISTRIBUTION AND BOUNDARY LAYER MEASUREMENTS
DTMB-AERO-1054 N64-25518 17-11

EFFECT OF AIRFOIL CURVATURE ON SHOCK-BOUNDARY LAYER INTERACTION AND AIRFOIL PRESSURE DISTRIBUTIONS AT TRANSONIC SPEEDS
NAL-TN-AE-20-63 N64-25878 18-03

DEVELOPMENT OF BOUNDARY LAYER IN HYPERSONIC TUBE
N64-26160 18-11

EFFECT OF SHOCK BOUNDARY LAYER INTERACTION ON AIRFOIL PRESSURE DISTRIBUTION AT TRANSONIC SPEEDS
NAL-TN-AE-16-63 N64-26754 18-02

BOUNDARY LAYER ON SEMI-INFINITE FLAT PLATE WITH BLUNT LEADING EDGE IN HYPERSONIC FLOW
NASA-TT-F-9022 N64-27136 19-11

INFLUENCE OF INTERACTION OF FLOW FIELD WITH BOUNDARY LAYER ON HEAT TRANSFER IN VICINITY OF INTERIOR CORNER ALIGNED WITH FREE STREAM VELOCITY
NASA-TN-D-2417 N64-27506 19-13

LAMINAR CONVECTIVE HEAT TRANSFER AND BOUNDARY LAYER EQUATIONS FOR CONES AT ESCAPE VELOCITY
NASA-TN-D-2463 N64-27807 19-11

DIRECT MEASUREMENT OF BOUNDARY LAYER VELOCITY PROFILE OF GAS FLOW ALONG NONUNIFORMLY HEATED FLAT PLATE
FTD-TT-63-1053/1&2&4 N64-27837 19-15

NUMERICAL SOLUTION AND PROGRAMMING FOR PROBLEMS INVOLVING INTERSECTION OF SHOCKS AND SHOCK-BOUNDARY LAYER INTERACTIONS FOR REAL AND IDEAL GAS
NASA-CR-56414 N64-27905 20-11

BOUNDARY LAYER GROWTH ON FLAT PLATE IN PRESENCE OF TRANSVERSE MAGNETIC FIELD N64-28099 20-11

ANALYSIS OF CHEMICAL BOUNDARY LAYER BEHIND MOVING SHOCK WAVE IN DIATOMIC GASES N64-28102 20-11

BOUNDARY LAYERS IN ELECTRICALLY CONDUCTING FLUIDS - PLASMA BOUNDARY LAYERS
N64-28187 20-11

BOUNDARY LAYER MEASUREMENT IN HYPERSONIC WIND TUNNEL CONICAL NOZZLE
ARL/A-215 N64-28419 20-11

BOUNDARY LAYER OF AXISYMMETRIC FIGURE ROTATING WITHIN AXIAL FLOW OF COMPRESSIBLE GAS
N64-28472 20-11

BOUNDARY LAYER PARAMETER IN HIGH SPEED FLOW WITH VARIABLE FLUID PROPERTIES
ARL-64-119 N64-28598 20-11

INITIAL BOUNDARY LAYER EFFECT ON DEVELOPMENT OF TURBULENT FREE SHEAR LAYER
ARC-CP-682 N64-28848 20-11

MULTIPLE TEMPERATURE BOUNDARY LAYER BEHIND REFLECTED SHOCK WAVE IN HIGHLY IONIZED ARGON
NASA-CR-58041 N64-28924 20-24

EFFECT OF BOUNDARY LAYER BLOWING ON LAMINAR SEPARATED SHEAR LAYER - DEFENDER PROJECT
EOS-RN-9 N64-29320 21-11

EFFECT OF VARIATIONS OF BOUNDARY LAYER CONDITIONS ON ATMOSPHERIC BOUNDARY LAYER
AD-429496 N64-29531 21-21

MATHEMATICAL MODEL OF TURBULENT FLOW NEAR BOUNDARY LAYER - VARIATIONS IN VALUES OF KARMAN CONSTANT
N64-29532 21-11

END WALL BOUNDARY LAYER BEHIND REFLECTED SHOCK IN IONIZED ARGON
NASA-CR-58759 N64-29696 21-11

BEHAVIOR OF LAMINAR AND UNSTABLY STRATIFIED BOUNDARY LAYERS TOWARDS THREE DIMENSIONAL PERTURBATIONS
AFOSR-64-1280 N64-30054 21-11

IMPULSIVE MOTION OF SEMI-INFINITE FLAT PLATE USING LINEAR MODEL OF UNSTEADY BOUNDARY LAYER EQUATIONS
PIBAL-821 N64-30561 22-11

EFFECTS OF CESIUM AND SODIUM IN ABLATING SURFACE OF POINTED CONES ON AIR IONIZATION IN BOUNDARY LAYER
R64SD22 N64-30658 22-11

CONVECTIVE INSTABILITY OF HORIZONTAL FLUID LAYER WITH CONSTANT TEMPERATURE GRADIENTS AND DIFFUSIVE SUBSTANCE CONCENTRATION AT BOUNDARIES
MD-63-6 N64-31841 23-11

TRANSITION FROM LAMINAR FLOW TO TURBULENT FLOW IN BOUNDARY LAYER OF WIND TUNNEL MODEL AT HYPERSONIC SPEED
REPT.-64SD855 N64-32141 23-11

ROTATING BOUNDARY LAYERS ON AXISYMMETRIC BODIES
ATN-64/9227/-6 N64-32178 23-11

ARTIFICIAL SATELLITE PHOTOGRAPHY OF CYCLONE AND BALLOON OBSERVATIONS OF THERMODYNAMIC STABILITY OF ATMOSPHERIC BOUNDARY LAYER
JPRS-26772 N64-32783 24-21

THERMODYNAMIC STABILITY OF ATMOSPHERIC BOUNDARY LAYER FROM BALLOON OBSERVATIONS
N64-32785 24-21

ABLATION FROM LEXAN SPHERES AND CONES AT HYPERSONIC SPEED - RELATION BETWEEN MASS AND HEAT TRANSFER RATES FROM ANALYSES OF BOUNDARY LAYER
CARDE-TR-511/64 N64-33143 24-13

SUPERSONIC WIND TUNNEL TEST TO DETERMINE EFFECTIVENESS OF BOUNDARY LAYER SUCTION FOR LAMINAR FLOW CONTROL ON SWEPT WING
AEDC-TDR-64-221 N64-33951 24-03

BOUNDARY LAYER COMBUSTION
S REGRESSION

BOUNDARY LAYER CONTROL
SA FLUTTER
CF TURBULENCE
AERODYNAMIC ASPECTS OF BOUNDARY LAYER CONTROL FOR HIGH LIFT AT LOW SPEEDS DURING APPROACH, LANDING, AND TAKEOFF - AIRCRAFT DESIGN AND HANDLING
AGARD-414 N64-11907 03-03

BOUNDARY LAYER CONTROL METHOD USING FLOW OF RAM AIR
TR-AE-6403 N64-18390 10-03

WIND TUNNEL STUDY OF BOUNDARY LAYER CONTROL BY BLOWING ON AIRFOIL TO REDUCE DRAG
NASA-TN-D-2374 N64-25714 17-02

LOW DRAG BOUNDARY LAYER CONTROL AND LAMINAR FLOW CONTROL FOR OPTIMUM SUPERSONIC FLIGHT
NOR-64-142 N64-32656 23-11

BOUNDARY LAYER FLOW
BOUNDARY LAYER DRAG OF BODIES WITH SWEPT TRAILING EDGES IN SUPERSONIC FLOW
ARC-CP-699 N64-10241 01-11

STABILITY OF FREE CONVECTION BOUNDARY LAYER FLOW INVESTIGATED BY INTEGRATION OF DISTURBANCE DIFFERENTIAL EQUATIONS
NASA-TN-D-2089 N64-11905 03-11

APPROXIMATION THEORY OF LAMINAR AND TURBULENT BOUNDARY LAYER COMPRESSIBLE FLOW
AID-T-63-110 N64-15246 07-11

SIMPLIFIED ANALYSIS OF SKIN FRICTION AND HEAT TRANSFER IN BINARY BOUNDARY LAYER FLOW ON FLAT PLATES
RM-2872-PR N64-16472 08-11

SEPARATED BOUNDARY LAYER FLOW ON TWO-DIMENSIONAL FLAT PLATE HAVING VARIABLE SPAN TRAILING-EDGE FLAP

AEDC-TDR-64-14 N64-17455 09-11

BOUNDARY LAYER FLOW, VORTICITY, EXTERNAL FLOW, AND BODY SURFACE CURVATURE
FTD-MT-63-167 N64-18688 11-11

FINITE DIFFERENCE METHOD SOLUTION OF NONSIMILAR, NONEQUILIBRIUM AIR, LAMINAR AND TURBULENT BOUNDARY LAYER FLOW
TECH. REPT.-422 N64-19553 12-11

COMPUTER PROGRAM FOR FINITE DIFFERENCE METHOD SOLUTION OF NONSIMILAR, NONEQUILIBRIUM AIR, LAMINAR AND TURBULENT BOUNDARY LAYER FLOWS
GASL-TR-422 N64-19554 12-11

REDUCTION OF BOUNDARY LAYER THICKNESS IN LOW DENSITY NOZZLES BY WALL SUCTION AND COOLING
NASA-TM-X-53008 N64-20728 13-02

PROPULSIVE EFFICIENCY, CAVITATION CHARACTERISTICS, AND BOUNDARY LAYER INTAKE DESIGN FACTORS FOR HYDRODYNAMIC SHROUDED PROPELLER - PUMPJET
NOW-63-0209-C-7 N64-20904 14-17

EFFECTS OF SURFACE CURVATURE ON LAMINAR BOUNDARY LAYER FLOW
NAL-TR-48 N64-21206 14-11

EFFECT OF TRANSVERSE CURVATURE IN COMPRESSIBLE LAMINAR BOUNDARY LAYER FLOW OVER SLENDER BODIES OF REVOLUTION
NOLTR-63-68 N64-21719 15-11

HEAT TRANSFER ON FLAT PLATE AND PIPE WALL IN STEADY AND COUNTER BOUNDARY LAYER FLOWS
N64-26553 18-13

INFLUENCE OF INTERACTION OF FLOW FIELD WITH BOUNDARY LAYER ON HEAT TRANSFER IN VICINITY OF INTERIOR CORNER ALIGNED WITH FREE STREAM VELOCITY
NASA-TN-D-2417 N64-27506 19-13

UNSTEADY BOUNDARY LAYER FLOW OF NONNEWTONIAN FLUID ON FLAT PLATE N64-28952 20-11

SOLUTION OF ORR-SOMERFELD EQUATION FOR LAMINAR BOUNDARY LAYER FLOW OVER COMPLIANT BOUNDARIES
ASRL-TR-116-1 N64-29502 21-11

STRUCTURE OF TURBULENT PRESSURE FIELD IN BOUNDARY LAYER FLOWS N64-32792 24-11

BOUNDARY LAYER NOISE
DYNAMIC ENVIRONMENT, ROCKET EXHAUST NOISE, BOUNDARY LAYER NOISE, AND RANDOM & SINUSOIDAL VIBRATION OF S- IV AND S- IVB VEHICLES
N64-18542 11-30

PREDICTION OF BOUNDARY LAYER TURBULENCE AND NOISE DURING FLIGHT CONDITIONS N64-18547 11-30

METAL FATIGUE OF AIRCRAFT STRUCTURES DUE TO TURBULENT BOUNDARY LAYER PRESSURE FLUCTUATIONS AND BOUNDARY LAYER NOISE
AGARD-468 N64-18725 11-11

WIND TUNNEL TESTING OF TURBULENT BOUNDARY LAYER NOISE
NASA-TN-D-2247 N64-18733 11-11

TURBULENT MOTION & BOUNDARY LAYER NOISE GENERATED BY VIBRATIONS OF STEEL STRUCTURES
AGARD-465 N64-18992 11-11

CONDENSER MICROPHONE FOR BOUNDARY LAYER NOISE MEASUREMENT N64-20244 13-15

NOISE - COMBUSTION, PROPELLER & ROTOR, COMPRESSOR, JET, SONIC BOOM, AND BOUNDARY LAYER
AIAA PAPER-64-545 N64-27751 19-03

FREE-FLIGHT BOUNDARY-LAYER AERODYNAMIC NOISE MEASUREMENTS
AGARD-467 N64-32386 23-11

BOUNDARY LAYER SEPARATION
CF SEPARATED FLOW
SURFACE PRESSURE VARIATIONS FROM ATTACHED AND SEPARATED BOUNDARY LAYERS AT SUPERSONIC SPEED
AGARD-458 N64-16663 08-02

BOUNDARY LAYER TRANSITION
CF TURBULENCE
BOUNDARY LAYER TRANSITION AND PLASMA TURBULENCE - SQUID PROJECT N64-13478 05-24

HYPERSONIC BOUNDARY LAYER TRANSITION ON SMOOTH FLAT PLATE WITH SHARP LEADING EDGES
N64-14911 06-11

BOUNDARY LAYER TRANSITION - FREE STREAM TURBULENCE AND PRESSURE GRADIENT EFFECTS
SID-63-390 N64-16839 08-11

INFLUENCE OF LEADING-EDGE GEOMETRY ON BOUNDARY-LAYER TRANSITION ON HOLLOW CYLINDERS AT MACH 8 WITH NEAR ADIABATIC WALL TEMPERATURE
AEDC-TDR-64-18 N64-17128 09-02

EFFECTS OF CONTROLLED SURFACE ROUGHNESS ON BOUNDARY LAYER TRANSITION AND HEAT TRANSFER AT HYPERSONIC SPEEDS
NASA-TN-D-2054 N64-18953 11-11

LAMINAR BOUNDARY LAYER TRANSITION ON TEN-DEGREE CONE IN HYPERSONIC FLOW
REPT.-64-RL-/3622C/ N64-21057 14-11

EFFECTS OF CONTROLLED SURFACE ROUGHNESS AND FREE STREAM TURBULENCE ON BOUNDARY LAYER TRANSITION
SID-64-546 N64-21250 14-11

EFFECTS OF THREE DIMENSIONAL ROUGHNESS TRIPS ON AERODYNAMIC CHARACTERISTICS AND BOUNDARY LAYER TRANSITION OF WING-BODY-TAIL CONFIGURATION
NASA-TN-D-2334 N64-22023 15-02

BOUNDARY LAYER TRANSITION & DYNAMIC STABILITY OVER LARGE AMPLITUDES OF OSCILLATION
AIAA PAPER-64-427 N64-23355 16-11

ELECTRON INTENSITY NEAR SUNWARD MAGNETOSPHERE BOUNDARY AND WITHIN BOUNDARY LAYER TRANSITION OBSERVED BY EXPLORER XIV SATELLITE
NASA-CR-58787 N64-30505 22-29

LAMINAR, TURBULENT, AND TRANSITIONAL BOUNDARY LAYER HEAT TRANSFER DATA FROM MARK II REENTRY BOD
N64-33262 24-13

PRESSURE GRADIENT AND REYNOLDS NUMBER EFFECTS ON BOUNDARY LAYER TRANSITION IN HYPERSONIC FLOW
RAE-TRANS.-1073 N64-33439 24-11

BOUNDARY VALUE
ABSTRACT VARIATIONAL PRINCIPLE DERIVED FROM DIRICHLET BOUNDARY VALUE PROBLEM FOR LINEAR PROBLEMS
ONR-064-431 N64-10556 01-23

INVARIANT DIFFERENTIAL OPERATORS AND BOUNDARY VALUE PROBLEMS
MH-TRANS-466 N64-11652 03-20

ANALYSIS OF MIXED BOUNDARY VALUE PROBLEMS IN STEADY-STATE ELASTODYNAMICS
AFCRL-63-785 N64-11931 03-20

CONSTRUCTION OF STATIONARY FUNCTIONALS FOR SOLUTION OF LINEAR BOUNDARY VALUE PROBLEM
AFCRL-63-784 N64-12295 03-23

GAS FLOW PAST BLUNT BODIES & TRIANGULAR WING AND ITERATIVE SOLUTION OF LINEAR BOUNDARY PROBLEM
FTD-TT-62-1582/1&2 N64-12482 04-01

ITERATION METHODS FOR SOLVING LINEAR BOUNDARY PROBLEM N64-12483 04-28

SINGULAR PERTURBATIONS AND NONLINEAR BOUNDARY VALUE PROBLEMS
MRC-421 N64-13822 05-20

SCATTERING MATRIX TECHNIQUE FOR SOLVING SOME ELECTROMAGNETIC AND ACOUSTIC WAVE PROPAGATION BOUNDARY VALUE PROBLEMS
TR-72 N64-13966 05-20

TWO-SPHERE BOUNDARY-VALUE PROBLEM FOR EFFECT OF ELECTROSTATIC FIELDS ON DROPLET PAIRS, AS IN WARM CLOUD PRECIPITATION - FORCES AND FIELD STRENGTH
RM-3860-PR N64-15380 07-23

MIXED BOUNDARY VALUE PROBLEM FOR LINEAR HYPERBOLIC PARTIAL DIFFERENTIAL EQUATIONS IN TWO INDEPENDENT VARIABLES
NOLTR-63-278 N64-15763 07-20

MOVING GRIFFITH CRACK OF UNVARYING SHAPE - PROPAGATING TENSILE FRACTURE AS STEADY STATE DYNAMIC MIXED BOUNDARY VALUE PROBLEM
NASA-CR-53181 N64-17583 09-33

GALERKIN METHOD OF SOLVING BOUNDARY VALUE PROBLEMS FOR CERTAIN TYPES OF LINEAR DIFFERENTIAL EQUATIONS
NASA-TT-F-195 N64-17722 09-20

MATHEMATICAL ANALYSIS OF LATTICE BOUNDARY VALUE PROBLEMS APPLIED TO MOLECULAR PARTICLE COLLISIONS WITH SURFACES
NASA-CR-53577 N64-18455 10-23

APPLICATION OF FINITE DIFFERENCE METHOD TO NONLINEAR BOUNDARY VALUE PROBLEMS IN MINIMAL SURFACES, GEODESICS, AND SUBSONIC FLOWS
NRC-466 N64-20340 13-20

GOURSAT PROBLEM FOR THIRD ORDER HYPERBOLIC PARTIAL DIFFERENTIAL EQUATION
NOLTR-64-38 N64-20419 13-20

KERNEL FUNCTION METHOD FOR SOLUTION OF BOUNDARY VALUE PROBLEMS
CS-4 N64-20512 13-20

MIXED BOUNDARY VALUE PROBLEMS - SHRINKAGE & STRESS ANALYSIS OF PROPELLANT GRAINS
AD-600546 N64-21466 14-20

TWO-POINT NONLINEAR BOUNDARY VALUE PROBLEM SOLVED BY DYNAMIC PROGRAMMING, INVARIANT IMBEDDING, AND QUASI-LINEARIZATION
RM-4069-PR N64-21620 15-20

INVARIANT IMBEDDING APPROACH TO STUDY OF PROCESSES - CONVERSION OF BOUNDARY VALUE PROBLEMS TO INITIAL VALUE PROBLEMS
RM-3806-PR N64-21723 15-09

MIXED BOUNDARY VALUE PROBLEM FOR LINEAR THIRD ORDER HYPERBOLIC PARTIAL DIFFERENTIAL EQUATIONS
NOLTR-64-70 N64-21810 15-20

FIRST VARIATION IN SOLUTION TO BOUNDARY VALUE PROBLEMS IN THEORY OF POTENTIAL FOR VARIATION OF BOUNDARY SURFACE
MM-TRANS-292 N64-21814 15-20

FORMULATION OF ADAPTIVE CONTROL SYSTEM IDENTIFICATION AND STATE DETERMINATION PROBLEMS AS BOUNDARY VALUE PROBLEMS AND SOLUTION VIA QUASI-LINEARIZATION AND DIFFERENTIAL APPROXIMATION
RM-3928-PR N64-21909 15-20

NONLINEAR BOUNDARY VALUE PROBLEMS
NASA-CR-56652 N64-24019 16-20

NONLINEAR BOUNDARY VALUE PROBLEM FOR AXISYMMETRIC BUCKLING OF THIN SPHERICAL SHELLS UNDER UNIFORM EXTERNAL PRESSURE
INM-NYU-324 N64-25398 17-33

BOUNDS FOR SOLUTION OF BOUNDARY-VALUE PROBLEMS IN THEORIES OF ELASTICITY & HEAT CONDUCTION
AASD-2953-3 N64-25577 17-13

BOUNDARY VALUE PROBLEM IN SPACECRAFT GUIDANCE
NASA-TM-X-53059 N64-27240 19-22

APPROXIMATION METHOD TO DEFINE TWO POINT BOUNDARY VALUE PROBLEM OF CELESTIAL MECHANICS
R64SD57 N64-27325 19-20

ASYMPTOTIC METHODS FOR SOLUTION OF INITIAL BOUNDARY VALUE PROBLEMS FOR LINEAR HYPERBOLIC PARTIAL DIFFERENTIAL EQUATIONS
AFCRL-64-387 N64-27439 19-20

NEW SOLUTIONS OF LAPLACE EQUATION IN SPHERICAL COORDINATES - HARMONIC FUNCTIONS FOR BOUNDARY VALUE PROBLEMS RELATED TO SPHERE
REPT.-105 N64-27768 19-20

PROPAGATORS OF QUANTUM FIELD THEORIES AS GREEN FUNCTIONS FOR BOUNDARY VALUE PROBLEMS IN PARTIAL DIFFERENTIAL EQUATIONS
NRL-6028 N64-28274 20-23

MAGNETOHYDRODYNAMICS - EQUATIONS OF MOTION, GENERAL PROPERTIES, BOUNDARY VALUE PROBLEMS, SOUND WAVES, AND SHOCK WAVES
NASA-CR-58347 N64-28832 20-24

OBTAINING PRECISE BOUNDS IN SPECIAL EIGENVALUE PROBLEMS
NASA-CR-58672 N64-28879 20-23

UNIFIED METHOD FOR SOLUTION OF BOUNDARY VALUE PROBLEMS IN LINEAR ORDINARY SYSTEMS
REPT.-9816-6001-RU-000 N64-30141 21-20

BOUNDARY VALUE FORMULATION OF SPACE VEHICLE GUIDANCE PROBLEM
NASA-TM-X-53100 N64-30192 21-22

CONVERGENCE OF PICARD SUCCESSIVE APPROXIMATION SCHEMES BY TWO-POINT BOUNDARY VALUE NONLINEAR DIFFERENTIAL EQUATIONS
RM-4079-PR N64-31072 22-20

GREEN FUNCTION FOR BOUNDARY VALUE PROBLEMS IN HEAT CONDUCTION EQUATION
NASA-TT-F-9087 N64-31333 22-23

FORMULATION OF BOUNDARY VALUE PROBLEM IN IRIS LOADED INFINITE PERIODIC WAVEGUIDE WITH GLIDE REFLECTION SYMMETRY
TR-75 N64-31831 23-08

HIGH SPEED DIGITAL COMPUTER METHODS FOR DIFFERENCE EQUATION SOLUTIONS OF MILDLY NONLINEAR ELLIPTIC BOUNDARY VALUE PROBLEMS
MRC-474 N64-31899 23-20

SOLUTION OF TWO BOUNDARY VALUE PROBLEMS FOR SECOND ORDER PARTIAL DIFFERENTIAL EQUATION
FTD-MT-63-347 N64-31976 23-20

SOLUTION OF BOUNDARY VALUE PROBLEM FOR ELLIPTIC EQUATIONS BY MEANS OF NETS
FTD-MT-63-329 N64-32168 23-20

ERROR ESTIMATION IN TEMPERATURE AND THERMAL STRESS CALCULATIONS - BOUNDS FOR THREE-DIMENSIONAL HEAT CONDUCTION PROBLEMS
CU-1-64-ONR-4259/07/CE N64-32588 23-13

BOUSSINESQ APPROXIMATION
APPROXIMATION FOR SHEAR AND BOUSSINESQ TURBULENCE YIELDING STATISTICAL EQUATION FOR INHOMOGENEOUS FLOW
AD-601159 N64-32194 23-11

BOW
PRESSURIZED BOW DOME OF CABLE-REINFORCED RUBBER CONSTRUCTION FOR USE WITH SONAR EQUIPMENT
REPT.-12 N64-28703 20-34

BOX BEAM
STRAIN GAUGE MEASUREMENT ON POLYSTYRENE SWEPTBACK BOX BEAM WITH NONSWEPT CENTER PART
NLR-TR-S.597 N64-20435 13-33

WING BOX FUEL CONTAINMENT STUDIES - STATIC AND FATIGUE TESTS ON TITANIUM BOX BEAM SPECIMENS
LAC/425741/A/ N64-31302 22-17

BRAGG EQUATION
BRAGG ANGLES OF ALPHA QUARTZ USING DOUBLE CRYSTAL X-RAY SPECTROMETER N64-21171 14-25

BRAGG ANGLES FOR SOFT X-RAY EMISSION LINES USING POTASSIUM ACID PHTHALATE AND RUBIDIUM ACID PHTHALATE ANALYZING CRYSTALS
ML-TDR-64-2 N64-22374 15-25

LATTICE VIBRATIONS STUDY THROUGH MEASUREMENTS OF

TEMPERATURE DEPENDENCES OF X-RAY BRAGG INTENSITIES
TR-3 N64-32212 23-25

BRAIN
SA CEREBRAL CORTEX
SA CEREBROSPINAL FLUID
SA ELECTROENCEPHALOGRAPHY
CF NERVOUS SYSTEM
PERMEABILITY OF HEMATOENCEPHALIC BARRIER TO INORGANIC PHOSPHATE IN ACUTE RADIATION SICKNESS
JPRS-21628 N64-10119 01-16

BRAIN ACTIVITY ANALYSIS BY INFORMATION SYNTHESIS OBTAINED BY PHYSIOLOGICAL, BIOCHEMICAL, AND STRUCTURAL-MORPHOLOGICAL TECHNIQUES
JPRS-17717 N64-10713 02-16

BIOCHEMICAL ANALYSIS OF PSYCHOLOGICAL EFFECT ON BRAIN ACTIVITY - HUMAN BEHAVIOR
JPRS-18315 N64-10756 02-16

PERCEPTRON - MACHINE FOR LEARNING SIMILAR IN OPERATION TO HUMAN BRAIN N64-10827 02-20

PHYSIOLOGICAL CONSCIOUSNESS OF BRAIN
JPRS-20270 N64-11223 02-16

STUDY OF BLOOD CIRCULATION OF BRAIN UNDER MODIFIED GRAVITATIONAL FIELD N64-11701 03-16

BIOELECTRIC CURRENT POTENTIALS AND OXYGEN PRESSURE IN BRAIN TISSUES DURING HYPOXIA OF SPACE FLIGHT N64-11708 03-16

ELECTRONIC COMPUTER ANALYSIS OF BIOELECTRIC CURRENT IN BRAIN - CYBERNETICS N64-12517 04-16

ANALYSIS OF INFORMATION PROCESSING MECHANISM IN BRAIN - CYBERNETICS N64-12519 04-16

EFFECT OF BODY TEMPERATURE IN BRAIN AND MUSCLE ON ADENOSINE TRIPHOSPHORIC ACID AND CREATINE PHOSPHATE CONTENT N64-12572 04-16

IMIPRAMINE INHIBITION OF MONOAMINE OXIDASE OF CAT BRAIN N64-12573 04-16

SECOND ANNUAL REPORT OF BRAIN RESEARCH INSTITUTE INCLUDING BIBLIOGRAPHY OF PUBLICATIONS N64-12967 04-16

SELECTIVE VULNERABILITY OF BRAIN IN HYPOXEMIA N64-14580 06-16

CRITICAL BLOOD PRESSURE IN CEREBRAL CIRCULATION N64-14581 06-16

REGIONAL BLOOD CIRCULATION OF BRAIN UNDER VARIOUS PHYSIOLOGICAL CONDITIONS N64-14582 06-16

OXYGEN TENSION DETERMINATION - OXYGEN DIFFUSION IN GREY MATTER OF BRAIN AT CAPILLARY LEVEL N64-14583 06-16

PASSAGE OF TRYPAN BLUE, PRONTOSIL, AND RADIOACTIVE CHROMIUM IN CITRATE BUFFER SOLUTION THROUGH BLOOD-BRAIN BARRIER IN HYPOXIA AND HYPOCAPNIA N64-14589 06-16

SELECTIVE VULNERABILITY OF HIPPOCAMPUS AREA - MORPHOLOGICAL CHANGES N64-14596 06-16

HYPOXIC AND ISCHEMIC FACTORS OF BRAIN DAMAGE - SYMMETRIC LESIONS N64-14599 06-16

LAMINAR LESIONS IN CEREBELLAR CORTEX AND HYPOXEMIA EFFECT ON CEREBRAL NUCLEI N64-14601 06-16

CHANGE IN METABOLIC PATTERN OF BRAIN DUE TO OXYGEN TENSION REDUCTION IN BLOOD - HYPOXIA N64-14603 06-16

GLUCOSE UTILIZATION OF BRAIN CORRELATED WITH INSUFFICIENT OXYGEN CONSUMPTION IN LIVER - HYPOXIA N64-14604 06-16

HISTOCHEMICAL DETERMINATION OF OXIDATIVE AND HYDROLYTIC ENZYMES ON RAT BRAIN TISSUE AND AMINO ACID CONSUMPTION IN MONKEYS AFTER HYPOXEMIA N64-14606 06-16

BRAIN INJURIES FOLLOWING ALPHA PARTICLE IRRADIATION OF PITUITARY GLAND N64-15206 07-16

POSITRON SCINTILLATION CAMERA FOR DETECTING REAL AND SIMULATED BRAIN TUMORS N64-15215 07-16

CORTICAL-SUBCORTICAL RELATIONSHIPS OF CHIMPANZEE DURING DIFFERENT PHASES OF SLEEP - EEG COMPUTER ANALYSIS
NASA-CR-55689 N64-16324 08-16

EFFECTS OF RADIATION ON OXYGEN BALANCE IN BRAIN TISSUES N64-16907 09-16

PERFORMANCE OF RAT PROVIDED WITH CONTINUOUS OPPORTUNITY TO OBTAIN REINFORCING BRAIN STIMULATION N64-17498 09-16

PHYSICOCHEMICAL PROPERTIES OF CEREBRAL PROTEINS DURING EXCITATION OF NERVOUS ACTIVITY BY CAMPHOR
JPRS-24119 N64-18085 10-16

CHEMISTRY OF BRAIN FUNCTION
JPRS-24151 N64-18115 10-16

LIMIT OF GENETIC CONTROL OF BRAIN STRUCTURE N64-18834 11-16

BIOPHYSICS OF POLYMERS, NUCLEIC ACIDS, AND BRAIN NEURONS
JPRS-24261 N64-19437 12-16

MATHEMATICAL METHOD FOR INVESTIGATING IMPULSE ACTIVITY OF CENTRAL NEURONS OF BRAIN N64-19440 12-16

STRUCTURE AND FUNCTIONS OF COMPONENTS OF BRAIN - NEURONS, VASCULAR CAPILLARY NETWORK, NEUROGLIA, CEREBROSPINAL FLUID
IPST-990 N64-22203 15-16

EFFECT OF TRANSVERSE ACCELERATION ON OXYGEN TENSION IN BRAIN TISSUE
FTD-TT-63-1215/1&2&4 N64-22665 15-16

RADIATION THERAPY OF BRAIN TUMOR WITH HIGH ENERGY ALPHA PARTICLE BEAM FROM LARGE SYNCHROCYCLOTRON N64-22865 16-16

REACTIONS OF VASCULAR SYSTEM OF CRANIAL CAVITY DURING LONGITUDINAL G-LOADS N64-23770 16-16

MECHANISM OF SPATIAL PERCEPTION AND SYNERGETIC ACTIVITY OF CEREBRAL HEMISPHERES N64-25133 17-16

MECHANISM OF SPATIAL PERCEPTION IN BEHAVIOR OF ANIMALS & PATHWAYS AND STRUCTURE OF SPATIAL ANALYSIS N64-25134 17-16

IMPORTANCE OF SYNERGETIC ACTIVITY IN CEREBRAL HEMISPHERES TO SPATIAL PERCEPTION N64-25135 17-16

BRAIN SEROTONIN AND BEHAVIOR IN SELECTED STRAINS OF RATS
UCRL-11179 N64-25204 17-16

PATTERN ANALYSIS OF CONDITIONED RESPONSE AND THOUGHT PROCESSES OF HUMAN BRAIN
FTD-TT-64-184/1&4 N64-25951 18-16

BLOOD CIRCULATION IN BRAIN
OTS-63-11171 N64-26351 18-16

RHYTHM VARIATIONS OF NEURONS OF RETICULAR FORMATION DURING LATERAL OVERLOADS
NASA-TT-F-230 N64-26784 18-16

VARIOUS STUDIES OF BRAIN REACTIONS IN MONKEYS
NASA-CR-58038 N64-27284 19-16

EFFECTS OF X-RAY IRRADIATION ON ENZYME ACTIVITY IN BRAIN AND MUSCLE TISSUE OF RATS
JPRS-25630 N64-27319 19-16

POLAROGRAPHIC METHOD OF DETERMINATION OF OXYGEN

TENSION IN BRAIN TISSUES DURING HIGH ALTITUDE FLIGHT
N64-27634 19-16

CONTINUOUS REGISTRATION OF LOCAL CEREBRAL BLOOD FLOW USING THERMISTOR
FTD-TT-63-1175/1&2&4 N64-27840 19-16

OXYGEN TENSION IN LIVING BRAIN TISSUE OF DOG DURING LONG ACCELERATION
FTD-TT-63-848/1&2 N64-29278 21-16

CHANGES IN CEREBRAL METABOLIC PARAMETERS OF DOGS DURING PROGRESSIVE HYPOTHERMIA
SAM-TDR-64-44 N64-29288 21-16

ELECTROENCEPHALOGRAPHIC AND NEUROPHYSIOLOGICAL STUDIES OF BRAIN FUNCTION AND BEHAVIOR
AFOSR-64-1195 N64-30465 22-16

INDIVIDUAL DIFFERENCES AS FACTORS IN RESPONSES OF HUMAN BRAIN POTENTIALS TO RHYTHMIC LIGHT STIMULATION
N64-31458 23-14

ELECTRICAL ACTIVITY OF CORTEX AND DEEP BRAIN STRUCTURES OF MACAQUE MONKEY DURING SLEEP USING BIPOLAR SURFACE & IMPLANTED ELECTROENCEPHALOGRAPH ELECTRODES
NASA-CR-59001 N64-33041 24-16

MULTIPLE ELECTRODE IMPLANTATION INTO SUBCORTICAL STRUCTURES OF HUMAN BRAIN
FTD-TT-63-1119/1&2&4 N64-33970 24-16

BRAIN STEM
ANIMAL STUDY FOR PHARMACOLOGICAL EFFECTS ON BRAIN STEM FROM ADMINISTRATION OF ARECOLINE HYDROBROMIDE AND PHENAMINE
N64-31342 23-16

BRAKE
BRAKING DISTANCES FOR AIRCRAFT AS AFFECTED BY VELOCITY, FRICTION, AND WET RUNWAY CONDITIONS
AGARD-434 N64-14215 06-10

AERODYNAMIC AND ROCKET BRAKING OF BLUNT NONLIFTING VEHICLES DURING ATMOSPHERIC ENTRY AT HYPERSONIC SPEEDS
NASA-TN-D-2239 N64-18731 11-30

MATHEMATICAL MODEL OF CONTROL SYSTEM TO OPTIMIZE AUTOMOBILE BRAKING
N64-19045 11-23

AERODYNAMIC BRAKING TRAJECTORIES FOR PLANETARY ORBIT ATTAINMENT
AIAA PAPER-64-478 N64-24165 16-04

SPACECRAFT DECELERATION BY AERODYNAMIC BRAKING TO ESTABLISH ORBIT ABOUT MARS
AIAA PAPER-64-479 N64-24812 17-29

MAGNETIC AIR BRAKE FOR TEST OF GAS MICROTURBINES
FTD-MT-63-293 N64-26731 18-17

BRASS
EFFECT OF ULTRASONIC WAVE ON DURABILITY AND PLASTICITY OF BRASS
FTD-TT-63-897/1&2 N64-12851 04-18

THYRATRON SAMPLING AND SPECTRAL ANALYSIS OF BRASS
N64-32849 24-25

X-RAY DIFFRACTION METHOD OF RESIDUAL STRESS MEASUREMENTS ON SILICON BRONZE AND ALPHA BRASS SAMPLES SUBJECTED TO TENSILE DEFORMATION
OA-2067 N64-33075 24-33

BRAYTON CYCLE
PRELIMINARY DESIGN ANALYSIS OF BRAYTON CYCLE CAVITY RECEIVER USING LITHIUM FLUORIDE
NASA-CR-52390 N64-10140 01-17

STRUCTURAL & OPTICAL PERFORMANCE ANALYSES OF BRAYTON CYCLE SOLAR COLLECTOR
NASA-CR-52861 N64-11106 02-06

SOLAR BRAYTON CYCLE POWER SUPPLY - NASA PROGRAM
NASA-TM-X-51112 N64-14265 06-06

BRAYTON CYCLE SOLAR COLLECTOR DESIGN STUDY
NASA-CR-55394 N64-14279 06-06

BRAYTON CYCLE CAVITY RECEIVER DEVELOPMENT
NASA-CR-55734 N64-16267 08-06

DEVELOPMENT OF BRAYTON CYCLE SOLAR COLLECTOR
NASA-CR-53082 N64-16751 08-06

REFLECTIVITY OF BRAYTON CYCLE SOLAR COLLECTOR
NASA-CR-53357 N64-18104 10-06

BRAYTON CYCLE CAVITY RECEIVER USING LITHIUM FLUORIDE AS CORROSIVE SALT
NASA-CR-53874 N64-19792 12-06

DESIGN AND PERFORMANCE CHARACTERISTICS OF BRAYTON CYCLE SOLAR COLLECTOR
NASA-CR-53504 N64-19999 12-06

BRAYTON CYCLE FOR USE IN POWER GENERATOR FOR SPACE MISSIONS
SAE PAPER-741A N64-22416 15-06

SOLAR BRAYTON CYCLE CAVITY RECEIVERS WITH LITHIUM FLUORIDE HEAT STORAGE
AIAA PAPER-64-727 N64-28375 20-06

BRAYTON CYCLE SPACE POWER SYSTEMS ANALYSIS
NASA-TN-D-2487 N64-30101 21-06

BRAZING
SA SOLDERING
CF WELDING
SINTERED ALUMINUM OXIDE BONDING USING SILICATE BRAZING FOR REACTOR CLADDING
EUR-274.F N64-10034 01-19

EFFECTS OF TWO NICKEL ALLOY BRAZE COATINGS, HEAT TREATMENTS, AND PROCESSING VARIABLES ON RUPTURE STRENGTH OF SHEET METALS
NASA-TN-D-1880 N64-10334 01-18

PROPERTIES OF ALLOYS BRAZED WITH HIGH TEMPERATURE SOLDERS
JPRS-21927 N64-10354 01-17

BRAZING AND WELDING OF SINTERED ALUMINUM POWDER
JPRS-18187 N64-10750 02-18

METALLURGICAL DEVELOPMENTS - ALUMINUM BRAZING & AMMONIUM PARATUNGSTATE PRODUCTION
JPRS-18870 N64-10804 02-18

INTERACTION OF ZINC-ALUMINUM BRAZES WITH ALUMINUM ALLOYS - FLOW & WETTING PROPERTIES
N64-10805 02-18

BRAZING OF HIGH STRENGTH STEELS ALLOYED WITH SPECIAL ELEMENTS AND USING HIGH TEMPERATURE, CORROSION RESISTANT BRAZES
JPRS-22033 N64-11267 02-18

STRENGTH OF BRAZED JOINTS OF TITANIUM WITH OTHER METALS AND ELECTROPLATED PROTECTIVE COATINGS
JPRS-22096 N64-11271 02-18

STEEL STRIP BRAZING TECHNIQUE FOR ROCKET MOTOR CASE FABRICATION
ASD-TR-7-912/7/ N64-11737 03-17

STRUCTURAL ANALYSIS OF BRAZED AIRFRAME TESTS - METALLURGY
A245 N64-11925 03-34

SPOT WELDING OF PATCHES OF SILVER-LITHIUM & COPPER BRAZING ALLOYS FOR STATIC & SHEAR FATIGUE STRENGTH
FGT-2999 N64-12648 04-18

CONSTRUCTION OF BRAZED REFRACTORY METAL SANDWICH PANELS
ERR-FW-188 N64-16450 08-17

EFFECT OF WEATHERING ON BRAZED TITANIUM
FTDM-2988 N64-16635 08-18

EXOTHERMIC BRAZING OF REFRACTORY ALLOYS
AD-432137 N64-16840 08-17

BRAZING ALLOYS FOR FABRICATION OF NICKEL-BASED HONEYCOMB SANDWICH PANELS
A469 N64-17131 09-18

GAS-FLAME BRAZING OR SOLDERING OF METALS - MATERIALS AND TECHNIQUES
JPRS-24345 N64-18977 11-17

BRAZING SINTERED ALUMINUM POWDERS
JPRS-24355 N64-18979 11-17

WELDING AND BRAZING OF BERYLLIUM AND ITS ALLOYS - BIBLIOGRAPHY
SB-63-61 N64-20547 13-18

RHENIUM PROTECTIVE COATING FOR TITANIUM DURING HIGH TEMPERATURE BRAZING N64-21189 14-18

PHOTOGRAPHIC EVALUATION OF BRAZED METALLURGICAL HONEYCOMB SANDWICH PANEL JOINTS
A729 N64-22575 15-18

LOW MELT BRAZE ALLOYS FOR JOINING THIN STAINLESS STEEL STRIPS
L-TDR-64-25 N64-22683 15-18

MICROSCOPIC INSPECTION OF BRAZING AND WELDING JOINTS, AND STRUCTURAL DYNAMICS OF TRAVELING WAVE TUBE
AD-601466 N64-22703 15-17

METALLURGICAL TECHNOLOGY OF BRAZING AND WELDING OF BERYLLIUM
NASA-TT-F-9021 N64-27230 19-18

CRITIQUE OF LITERATURE ON BRAZING
JPRS-26036 N64-27635 19-17

METAL BRAZING PROCESSES AND PROPERTIES OF BRAZED JOINTS
JPRS-25954 N64-28514 20-18

BRAZING OF END SEALS FOR HIGH TEMPERATURE, HIGH VOLTAGE POWER TRANSMISSION WIRE
QR-5 N64-28621 20-17

BRAZING PROCESS FOR BONDING ZIRCALOY 2 CLADDING TO GRAPHITE MODERATOR USING COPPER AS BRAZING AGENT
NAA-SR-9604 N64-28674 20-17

ELECTRON BEAM BRAZING OF BERYLLIUM USING VARIOUS FILLER METALS
NAEC-AML-1997 N64-31095 22-18

BREAKDOWN
S ELECTRIC BREAKDOWN

BREATHING MODE
GAS EXCHANGE WITH AIR DURING BREATH-HOLDING N64-17934 10-16

GAS EXCHANGE OF CARBON DIOXIDE AND OXYGEN IN ALVEOLAR REGION DURING DIVING & ADVERSE BREATHING MODES N64-17935 10-16

BREATH HOLDING METHODS OF STUDYING CARBON DIOXIDE, OXYGEN TENSION, AND EFFECTS OF ALTITUDE ACCLIMATIZATION ON RESPIRATION N64-17936 10-16

MEDICAL MONITORING OF HEART RATE PATTERNS DURING CONDITIONS OF SLEEP, QUIET REST, BREATH-HOLDING, HYPOXIA, AND INCREASED G FORCES OF AIRCRAFT FLIGHT N64-28950 20-16

BREATHING VIBRATION
INVESTIGATION OF BREATHING MODE VIBRATIONS OF MULTILAYERED CYLINDRICAL SHELLS
TDR-169/2240-65/TR-2 N64-16595 08-33

BREATHING VIBRATIONS OF THIN WALLED SHELLS APPLIED TO SOLID PROPELLANT ROCKETS N64-19155 11-33

BREATHING VIBRATIONS OF PRESSURIZED PARTIALLY FILLED TANKS
NASA-CR-58943 N64-33192 24-33

BREGUET 941 AIRCRAFT
AERODYNAMIC DESIGN AND FLIGHT DEVELOPMENT OF BREGUET 941 STOL AIRCRAFT
RAE-TRANS-1063 N64-26664 18-04

BREMSSTRAHLUNG
CF X-RAY

IONIZATION OF LOWER IONOSPHERE BY BREMSSTRAHLUNG FROM AURORAL ELECTRON FLUX
NASA-TN-D-2096 N64-10058 01-12

BREMSSTRAHLUNG CROSS SECTIONS IN NEIGHBORHOOD OF PLASMA FREQUENCY
ARL-63-209 N64-15516 07-24

EFFECT OF BREMSSTRAHLUNG OF BETATRON AND ULTRAVIOLET RADIATION ON MINERAL OILS
FTD-TT-64-224/1&2&4 N64-21975 15-07

LOW ENERGY ABSORPTION AND BREMSSTRAHLUNG CROSS SECTIONS FOR NITROGEN
REPT.-1565 N64-25662 17-23

DETECTION OF BREMSSTRAHLUNG X-RAY RADIATION AT BALLOON ALTITUDES N64-26602 18-28

PHONON INTERACTIONS IN SOLID STATE MATERIALS, STIMULATED EMISSION OF BREMSSTRAHLUNG RADIATION, AND TRAVELING WAVE PHONON INTERACTIONS
REPT.-06031-2-S N64-26701 18-25

PRODUCTION OF BREMSSTRAHLUNG BY INTERACTION OF HIGH ENERGY ELECTRONS WITH BULK MATTER
NASA-CR-58178 N64-27893 20-23

CALCULATION OF ELECTRON-PRODUCED BREMSSTRAHLUNG RADIATION DOSE THROUGH SEVERAL SLABS OF SHIELD MATERIAL USING IBM 7090 FORTRAN COMPUTER PROGRAM
NASA-CR-58275 N64-29366 21-23

ASSOCIATION OF BREMSSTRAHLUNG X-RAYS WITH EXPLOSIVE SOLAR FLARES N64-30276 22-28

GENERATION MECHANISMS OF RADIO AND X-RAY BURSTS FROM SOLAR FLARES - BREMSSTRAHLUNG FROM SOLAR PLASMA, GYRO AND SYNCHROTRON RADIATION FROM ELECTRONS, AND PLASMA RADIATION N64-30287 22-28

X-RAYS PRODUCED BY BREMSSTRAHLUNG ON THICK TARGET WITH 1.2 MEV ELECTRONS - INTENSITY DISTRIBUTION AROUND VAN DE GRAAFF ACCELERATOR
LFEN.7 /GAMMA, DELTA/ N64-31032 22-23

BRIDGE
FERRITE SWITCH CONSISTING OF POWER DIVIDER, TWO FERRITE PHASE SHIFTERS, AND SLOT BRIDGE N64-12731 04-09

FOUR-DIODE BRIDGE-TYPE PHASE DETECTOR OF CONSTANT COSINE RESPONSE
NASA-TN-D-2269 N64-18082 10-09

COMPONENT VALUES FOR AUTOMATICALLY BALANCING BRIDGE CIRCUITS N64-29133 21-15

FUNCTION RELATING ABSOLUTE TEMPERATURE TO DC BRIDGE RESISTANCE RATIO, & THERMISTOR TEMPERATURE COEFFICIENT OF RESISTANCE
PIBAL-696 N64-30589 22-15

BRIDGE CIRCUIT FOR CAPACITY MEASUREMENT OF EVAPORATED AND SPUTTERED THIN FILM DIODES
GE/EE/63-23 N64-31138 22-09

BRIDGMAN METHOD
FLOW STRESS-STRAIN RELATIONSHIPS IN TENSION TESTS OF STEEL USING BRIDGMAN METHOD
WAL-TR-834.2/10 N64-29448 21-33

BRIGHTNESS
BRIGHTNESS OF DIFFUSING, CONTAMINANT GLOW CLOUDS IN UPPER ATMOSPHERE - CHEMILUMINESCENCE AND SOLAR RAY SCATTERING
HSA-84 N64-10223 01-12

TELEVISION SCAN-CONVERSION AND DIRECT-VIEW STORAGE TUBE FOR BRIGHT DISPLAY OF AIRPORT SURFACE DETECTION EQUIPMENT /ASDE/ N64-10255 01-15

LIMITS OF IMAGING AT LOW BRIGHTNESS LEVELS N64-15455 07-23

WATER-CLOUD INTERPRETATION OF VENUS ATMOSPHERE MICROWAVE BRIGHTNESS DETERMINATION
RM-4060-PR N64-18788 11-29

EFFECTS OF TRANSIENT WEIGHTLESSNESS ON BRIGHTNESS DISCRIMINATION - VISUAL PERCEPTION
CAL-VH-8137-E N64-18937 11-14

BRIGHTNESS DISTRIBUTION OF AURORAL RAY EMISSION
N64-21881 15-12

CORRELATION OF EARTHSHINE BRIGHTNESS WITH WORLDWIDE WEATHER FOR 1958
SAO SPECIAL REPT.-162 N64-30657 22-12

PHOTODISSOCIATION EFFECTS ON DISTRIBUTION OF SURFACE BRIGHTNESS IN CARBON ATMOSPHERE OF COMETS
NASA-TT-F-8948 N64-30841 22-05

CONVERSION FROM VISUAL BRIGHTNESS SCALE TO PHOTOMETRIC DATA FOR LUNAR FORMATIONS
RSIC-273 N64-33422 24-05

BRILLOUIN FLOW
S ELECTRON BEAM

BRILLOUIN ZONE
OPTICAL MASER APPLIED TO BRILLOUIN SCATTERING SPECTROSCOPY
AD-432142 N64-16834 08-25

BRITTLENESS
CF EMBRITTLEMENT
CF HARDNESS
CF MECHANICAL PROPERTY
THEORY OF CRACK INITIATION IN BRITTLE FRACTURE OF CRYSTAL
JPRS-17578 N64-10479 01-25

QUALITATIVE AND QUANTITATIVE INVESTIGATIONS OF BRITTLENESS OF REFRACTORY METALLOID COMPOUNDS
N64-10673 02-13

CONFIRMATION OF BRITTLE FRACTURE THEORY BY OBSERVATION OF DISLOCATIONS IN CAST AND DEFORMED CHROMIUM SPECIMENS N64-10793 02-18

BRITTLENESS IN STEEL IN LOW-TEMPERATURE TEMPERING
N64-11146 02-18

ANNEALING TEMPERATURE AND GRAIN SIZE EFFECT ON DUCTILITY AND BRITTLENESS OF POWDERED TUNGSTEN
ASD-TDR-63-676 N64-11769 03-18

LOW STRESS BRITTLE FRACTURE IN MILD STEEL
SSC-158 N64-14800 06-18

BRITTLE FRACTURE IN METALS UNDER CREEP CONDITIONS
N64-17062 09-18

BRITTLE FRACTURE OF CERAMICS
SSD-TDR-63-382 N64-17614 09-25

RESISTANCE TO BRITTLE FRACTURE OF NOTCHED SHIP HULL STEEL IN HEAVY SECTIONS - GEOMETRIC FACTOR
SSC-160 N64-19733 12-33

MECHANICAL FASTENING, ADHESIVE BONDING, AND BRAZING APPLIED TO PROBLEM OF ATTACHMENT IN BRITTLE NONMETALLIC MATERIALS
AD-428202 N64-19935 12-19

HYDROGEN EMBRITTLEMENT OF ALPHA-TITANIUM ALLOYS DURING CATHODE POLARIZATION N64-20916 14-18

HYDROGEN EMBRITTLEMENT AND CORROSION OF TITANIUM ALLOYS UNDER STRESS N64-20918 14-18

BRITTLE FRACTURE PROPAGATION - BRANCHING, FRACTURE SURFACE APPEARANCE, & STRESS WAVE INFLUENCE
N64-21726 15-33

STRAIN-AGING AND BRITTLE-DUCTILE TRANSITION CHARACTERISTICS OF CHROMIUM
IS-745 N64-23621 16-18

TRANSITION FROM PLASTIC TO BRITTLE BEHAVIOR IN THIN TUNGSTEN WIRE
RSIC-188 N64-25222 17-18

FRACTURE PROBABILITIES IN NONUNIFORMLY STRESSED BRITTLE MATERIALS
AD-437664 N64-25336 17-33

SUMMARY OF FINDINGS OF COMMITTEE ON DESIGN FOR BRITTLE MATERIALS
MAB-198-M N64-27686 19-33

METALLURGICAL FACTORS CONTROLLING DUCTILE-BRITTLE PROPERTY OF BERYLLIUM
ASD-TDR-62-509, VOL. V N64-29972 21-18

DUCTILE-BRITTLE BEHAVIOR OF TITANIUM CARBIDE SINGLE CRYSTALS
PR-1 N64-31286 22-25

PRESTRESSED MONOLITHIC AND SEGMENTED BRITTLE STRUCTURES - MATHEMATICAL MODELS FOR LOAD DEFLECTION CHARACTERISTICS
NASA-CR-113 N64-32431 23-33

DUCTILITY EXHAUSTION AND STATIC BRITTLE FRACTURE OF STEEL FROM PRESTRAIN AND AGING
SSC-162 N64-32664 23-18

RADIATION-INDUCED INCREASE IN DUCTILE-BRITTLE TRANSITION TEMPERATURE OF SIMULATED PRESSURE VESSEL WALL OF STEEL REACTORS
NRL-6151 N64-32670 23-18

MATERIALS SCIENCE - BRITTLENESS, FATIGUE, AND FRACTURE MECHANICS - GLASS-REINFORCED PLASTIC, HIGH STRENGTH METALS AND ALLOYS, AND REFRACTORY MATERIALS N64-32769 24-17

BRITTLE BEHAVIOR OF BERYLLIUM OBSERVED WITH TRANSMISSION ELECTRON MICROSCOPE
ASD-TDR-62-509, VOL. IV N64-33269 24-18

TRANSITION FROM DUCTILE FLOW TO BRITTLE FRACTURE BEHAVIOR IN MODERATELY HIGH STRENGTH STEELS MEASURED BY REVERSE BEND METHOD
AD-444554 N64-33367 24-18

BROMIDE
CF HALIDE
REACTION BETWEEN ORGANIC BROMIDES AND POWDERED TIN IN RADIATION FIELD
BNI-1654 N64-11410 02-07

CRYSTAL STRUCTURE OF BARIUM CHLORIDE, BROMIDE, AND IODIDE N64-11422 02-25

HIGH TEMPERATURE DIELECTRIC CONSTANT OF POTASSIUM BROMIDE
TR-7 N64-13963 05-19

PRODUCTION OF UNCLOUDED POTASSIUM BROMIDE PLATES FOR USE IN SPECTROSCOPY OF ORGANIC SUBSTANCES
RSIC-7 N64-14782 06-07

HEAT CAPACITY OF SODIUM BROMIDE AND SODIUM IODIDE AT LOW TEMPERATURES - THERMODYNAMIC PROPERTIES
BM-RI-6435 N64-18989 11-19

HEATS OF MIXING POTASSIUM CHLORIDE-POTASSIUM BROMIDE SOLID SOLUTIONS
AROD-2477-1 N64-24938 17-07

KINETICS OF HYDROGEN BROMIDE AND METHYL BROMIDE FLAME INHIBITION
SR-6-3 N64-25183 17-07

RADIATION PROTECTION FOR MONKEY WITH L-CYSTEINE AND AMINOETHYLISOTHIURONIUM DIBROMIDE
SAM-TDR-64-40 N64-32031 23-16

BROMINE
CF HALOGEN
TURBULENT AIR-BROMINE COAXIAL-FLOW DIFFUSION
NASA-TN-D-2121 N64-15161 07-11

SODIUM-BROMINE FUEL CELL AS ENERGY SOURCE FOR HIGH POWER PULSE N64-27113 19-06

BROMINE COMPOUND
DENSITY DETERMINATION OF THORIUM-URANIUM, THORIUM-PLUTONIUM, CAST THORIUM, & MONOBROMOBENZENE IN GLOVEBOXES
ANL-6671 N64-10394 01-07

ELECTRON MICROSCOPE STUDY OF LAMELLAR COMPOUNDS OF GRAPHITE WITH BROMINE, IODINE MONOCHLORIDE AND

FERRIC CHLORIDE
EUR-542.E N64-21006 14-19

FLUORINE OXIDIZERS - ELECTROLYTIC STUDIES IN BROMINE FLUORINE COMPOUNDS
QTSR-3 N64-22126 15-07

METABOLISM OF COMPOUNDS OF RADIOACTIVE BROMINE ISOTOPE IN THYROID GLANDS OF RATS
N64-22869 16-16

CATHODIC AND ANODIC YIELDS OF BROMINE AND BROMINE PENTAFLUORIDE AND GLOW DISCHARGE ELECTROLYSIS
QTSR-4 N64-27748 19-07

BROMINE TRIFLUORIDE METHOD FOR DETERMINATION OF OXYGEN CONTENT IN LIQUID ALKALI METALS
NASA-CR-58942 N64-33098 24-10

BROWNIAN MOTION
UNIFORM MOTION OF PARTICLES, SHAPE COEFFICIENTS, SETTLING VELOCITY OF DUST PARTICLES, AND BROWNIAN MOTION - AIR POLLUTANTS N64-11049 02-21

BROWNIAN MOTION APPLIED TO ELECTRON AND ION DIFFUSION IN PLASMA ACROSS MAGNETIC FIELD WITH ANISOTROPIC DYNAMICAL FRICTION
AFCRL-63-775 N64-13669 04-24

REWRITTEN LIOUVILLE EQUATION FOR STUDY OF BROWNIAN MOTION N64-16680 08-23

RELATIVISTIC STATISTICAL MECHANICS APPLIED TO COVARIANT THEORY OF BROWNIAN MOTION
TH-51 N64-22435 15-23

BUBBLE
MOTION OF GAS BUBBLES IN VERTICALLY VIBRATING LIQUIDS
NASA-CR-55575 N64-15389 07-11

BUBBLE LEVELS AS ATTITUDE SENSORS IN SATELLITES
SSD-TDR-63-373 N64-15727 07-22

ABSENCE OF AIR BUBBLES IN LIQUID USED IN FLOATING GYROSCOPE
FTD-TT-63-148/1&2 N64-16358 08-22

INITIATION OF SURFACE COOLING DUE TO BUBBLE GROWTH ON HEATING SURFACE
NASA-TN-D-2290 N64-19724 12-13

FLOW AND HEAT TRANSFER PROPERTIES OF BUBBLE STREAM MOTION IN LIQUID CORE NUCLEAR ROCKET
NASA-CR-56229 N64-24160 16-11

FORCES ACTING ON BUBBLES IN NUCLEATE BOILING UNDER NORMAL AND REDUCED GRAVITY CONDITIONS
NASA-TN-D-2299 N64-26413 18-23

INDICATIONS OF LEVEL, WETTING, & BUBBLES IN LIQUID SODIUM IN STAINLESS STEEL CONTAINER
EUR-1823.D N64-28136 20-13

REDUCED GRAVITY EFFECT ON NUCLEATE BOILING BUBBLE DYNAMICS IN SATURATED WATER
NASA-RP-320 N64-31210 22-13

QUALITATIVE ANALYSIS OF BUBBLE BEHAVIOR IN VERTICALLY VIBRATING LIQUID TANK
NASA-CR-59234 N64-33511 24-11

BUBBLE CHAMBER
ELASTIC SCATTERING OF CHARGED K-MESON PARTICLE IN HYDROGEN BUBBLE CHAMBER
UCRL-11155 N64-15400 07-23

BUBBLE CHAMBER NEUTRINO EXPERIMENTS - PION & MUON PRODUCTION AND BOSON MASS DETERMINATION
N64-15506 07-23

FREE HYPERON INTERACTIONS, BUBBLE CHAMBER & NUCLEAR EMULSION STUDIES, HYPERFRAGMENTS, AND HYPERNUCLEAR PHYSICS
CERN-64-1 N64-19061 11-23

PROBLEM OF STEREOSCOPY IN BUBBLE CHAMBER - CORRECTION OF REFRACTION
RSIC-157 N64-20460 13-23

SURFACE AND ATOMIC PHYSICS, COMPUTER DESIGNS, PLASMA PHYSICS, SYSTEM DESIGNS, MAGNETIC SUPERCONDUCTORS, VOLTAGE BREAKDOWN, AND THIN FILMS RESEARCH
AD-438840 N64-25885 18-01

FUNCTIONAL OPERATION OF PHOTO SCANNING DEVICE FOR MEASUREMENT OF NUCLEAR TRACKS ON BUBBLE CHAMBER PHOTOGRAPHS
CERN-64-28 N64-26520 18-15

BUBBLE CHAMBER INVESTIGATION OF PION-PROTON INTERACTION AT 4 GEV/C N64-30617 22-23

LIQUID HYDROGEN BUBBLE CHAMBER WITH MOVABLE TOP WINDOW
UCRL-11384 N64-30804 22-10

BUCKLING
CF SHELL STABILITY
CF STRAIN
CF STRESS
BUCKLING OF PLATES TAPERED IN PLANFORM UNDER UNIFORM STRESSES AND LOADS
ARC-R&M-3324 N64-10051 01-02

MERIDIONAL CONTOURS OF TOROIDAL SHELLS FOR ELIMINATION OF BUCKLING FAILURE IN TOROIDAL PRESSURE VESSELS
ERR-AN-174 N64-10345 01-34

EFFECT OF DIFFERENTIAL PRESSURE, THERMAL STRESS, & BUCKLING ON FLUTTER OF PANELS WITH LENGTH-WIDTH RATIO OF TWO
NASA-TN-D-2047 N64-11901 03-33

BUCKLING TESTS ON THIN CIRCULAR CYLINDRICAL SHELLS HEATED ALONG AXIAL STRIP
SUDAER-163 N64-13033 04-33

BUCKLING LOAD OF CIRCULAR CYLINDRICAL SHELLS UNDER AXIAL COMPRESSION
NASA-RP-95 N64-13223 04-33

THERMOELASTICITY - EQUATIONS, THERMAL STRESS, VARIATIONAL PRINCIPLE, THERMAL BUCKLING, AND STIFFNESS & VIBRATION N64-13564 05-23

FREQUENCIES AND MODES OF VIBRATION OF BUCKLED CIRCULAR PLATES
NASA-TN-D-2245 N64-14987 06-33

BUCKLING LOADS OF LONGITUDINALLY PRESSED THIN-WALLED CIRCULAR CYLINDRICAL SHELLS
DFL-214 N64-15021 07-33

BUCKLING COEFFICIENTS FOR CYLINDERS OF SANDWICH CONSTRUCTION UNDER AXIAL COMPRESSION
FPL-018 N64-15053 07-33

INFLUENCE OF PREBUCKLING DEFORMATION AND STRESS ON BUCKLING OF CIRCULAR CYLINDERS
NASA-TR-R-190 N64-15405 07-33

BUCKLING OF CLAMPED SHALLOW SPHERICAL SHELLS UNDER UNIFORM EXTERNAL PRESSURE
SM-63-53 N64-17851 10-33

NONLINEAR BUCKLING OF THIN, ELASTIC, RECTANGULAR PLATES
IMM-NYU-316 N64-18066 10-33

BUCKLING BEHAVIOR OF GEOMETRICALLY ORTHOTROPIC CYLINDRICAL SANDWICH SHELLS
AD-436033 N64-18616 11-33

BUCKLE DEPTH IN CIRCULAR CYLINDRICAL SHELLS COMPRESSED TO BUCKLING LIMIT
SUDAER-174 N64-18700 11-33

NONLINEAR MODEL OF THERMAL BUCKLING OF ELASTIC, THIN WALLED SHELLS
SUDAER-173 N64-18842 11-33

REPEATED BUCKLING OF CIRCULAR CYLINDRICAL SHELLS AND CONICAL SHELLS BY AXIAL COMPRESSION
SUDAER-175 N64-18843 11-33

POST-BUCKLING BEHAVIOR OF CYLINDRICAL SHELLS -

AXIAL COMPRESSION AND EXTERNAL PRESSURE EFFECTS
NASA-TT-F-90 N64-18950 11-33

EDGE COMPRESSION AND BUCKLING OF FLAT PANELS OF SANDWICH CONSTRUCTION WITH SIDES HINGED TO BEAMS
FPL-019 N64-19564 12-33

POST-BUCKLING BEHAVIOR OF CYLINDRICAL SHELLS STRESSED IN TORSION
NASA-TT-F-196 N64-22026 15-33

DISPLACEMENT OF BUCKLING OF AXIALLY COMPRESSED CIRCULAR CYLINDRICAL SHELLS
SSD-TDR-64-24 N64-22303 15-33

PREDICTION OF BUCKLING OR COLLAPSE FAILURE MODE IN PLASTIC DEFORMATION OF CYLINDRICAL SHELLS
TR-4 N64-24392 17-33

NONLINEAR SNAP BUCKLING OF SPHERICAL SHELLS
REPT.-383 N64-24885 17-33

NONLINEAR BOUNDARY VALUE PROBLEM FOR AXISYMMETRIC BUCKLING OF THIN SPHERICAL SHELLS UNDER UNIFORM EXTERNAL PRESSURE
IMM-NYU-324 N64-25398 17-33

BUCKLING OF ECHO A-12 PASSIVE COMMUNICATIONS SATELLITE
NASA-TN-D-2353 N64-25913 18-34

DONNELL EQUATION FOR BUCKLING OF THIN WALLED CIRCULAR CYLINDRICAL SHELLS SUBJECTED TO UNIFORM AXIAL COMPRESSION
AFOSR-64-1037 N64-26187 18-33

BUCKLING STRENGTH OF UNIFORM CIRCULAR CYLINDER LOADED IN AXIAL COMPRESSION
ARC-R&M-3366 N64-26547 18-33

BUCKLING OF TORISPHERICAL SHELLS UNDER INTERNAL PRESSURE - END CLOSURES FOR PRESSURE VESSELS
AMRA-TR-64-10 N64-26942 18-33

PLASTIC BUCKLING OF CYLINDRICAL SHELLS UNDER AXIAL COMPRESSION
AD-441942 N64-27420 19-33

ELASTICITY SOLUTION OF FLEXURE, TORSION, AND BUCKLING OF MULTILAYERED BEAMS
MRC-483 N64-27718 19-20

DYNAMIC BUCKLING OF IMPERFECTION-SENSITIVE STRUCTURES
TR-18 N64-28556 20-33

DISTRIBUTION OF EXPERIMENTAL BUCKLING LOAD VALUE FOR CYLINDRICAL SHELLS
TRECOM-TR-64-31 N64-29933 21-33

NONLINEAR THEORY OF STATIC STABILITY OF SHELLS - BUCKLING ANALYSIS N64-30909 22-33

BUCKLING OF AXIALLY LOADED CYLINDRICAL SHELLS - TEST PROGRAM
LMSC-6-90-63-77 N64-31094 22-33

RESPONSE OF SIMPLIFIED ICBM-TYPE STRUCTURES TO IMPULSIVE LOADING - RIGID-PLASTIC THEORY, DYNAMIC ELASTIC BUCKLING, TRAVELING LOADS, AND FLOW BUCKLING THEORY
AFML-TDR-64-22, VOL. II N64-31651 23-33

ENERGY SOLUTION TO BUCKLING OF SPHERICAL SHELLS
RS-TN-64-1 N64-33149 24-33

BUCKLING OF SHELLS UNDER DYNAMIC LOADS - STABILITY OF AXIALLY-LOADED THIN CYLINDRICAL SHELLS UNDER DYNAMIC LATERAL PRESSURES
NASA-CR-58949 N64-33280 24-33

BUDGET
METEOROLOGICAL PREDICTIONS OF ATMOSPHERIC CIRCULATION AND ENERGY BALANCE
AFCRL-64-334 N64-20092 13-21

BUDGET APPROPRIATION, COST ESTIMATE, & MANAGEMENT PLANNING FOR NASA PROGRAM N64-20199 13-01

ENERGY BALANCE OF SUDAN GRASS CROP
N64-30479 22-21

BUFFER
OPTIMUM PERFORMANCE OF BUFFERED SHOCK TUBES
ARL-64-41 N64-22311 15-11

BUFFETING
CONCLUSIONS ON AEROSYNOPTIC CONDITIONS OF AIRCRAFT BUFFETING IN UPPER TROPOSPHERE AND LOWER STRATOSPHERE
JPRS-17590 N64-10481 01-04

ATMOSPHERIC TURBULENCE - MODERATE & SEVERE AIRPLANE BUFFETING AT FLIGHT ALTITUDE
N64-12786 04-21

BUFFETING OF LAUNCH VEHICLES N64-19365 12-30

TRANSONIC AERODYNAMIC AND BUFFET CHARACTERISTICS OF PACKAGED MANNED ORBITAL SPACE STATION /MOSS/ ON SATURN V LAUNCH VEHICLE
NASA-TM-X-1000 N64-28318 20-32

SIMILITUDE REQUIREMENTS AND SCALING LAWS FOR TRANSONIC BUFFETING N64-29253 21-33

DYNAMIC MODELS FOR STUDY OF LAUNCH VEHICLE BUFFETING AT TRANSONIC SPEEDS AND GROUND-WIND LOADS N64-29262 21-33

PREDICTION OF GEMINI LAUNCH VEHICLE TRANSONIC BUFFET LOADING MOMENTS BY WIND TUNNEL TESTS
LV-280 N64-31836 23-33

BUILDING MATERIAL
FIBERGLASS AND FIBERGLASS PRODUCTS UTILIZED AS BUILDING MATERIALS FOR INSULATION
JPRS-18380 N64-10641 01-19

ADHESIVES FOR CEMENTING RADIATION PROTECTIVE COATINGS TO CONSTRUCTION UNIT SURFACES
N64-29121 21-07

BULKHEAD
MECHANICAL PROPERTIES OF PLASTIC FOAMS AND HONEYCOMBS FOR USE AS BACKUP CONFIGURATIONS FOR CENTAUR INTERMEDIATE BULKHEAD
MRG-312 N64-27212 19-19

ALUMINUM ALLOY INGOT GORE SEGMENT FABRICATION FOR SATURN V LAUNCH VEHICLE BULKHEADS
NASA-TM-X-53033 N64-31724 23-17

INTERCELLULAR FLUID MOBILITY WITHIN HONEYCOMB REINFORCED COMMON BULKHEAD FOR SATURN S- IV LAUNCH VEHICLE - BULKHEAD PURGING
NASA-TM-X-53094 N64-33185 24-11

BUOYANCY
S RAYLEIGH NUMBER

BURGER EQUATION
BURGERS MODEL EQUATION FOR STATISTICAL THEORY OF TURBULENCE
REPT.-2900-373 N64-13866 05-20

BURN INJURY
VARIOUS ASPECTS OF BURN INJURIES
JPRS-21680 N64-10006 01-16

CYBERNETIC METHOD FOR PROGNOSIS OF BURN INJURY BY ALGORITHM OPERATION N64-10007 01-16

REMOVAL OF LARGE AREA OF SKIN DUE TO THERMAL RADIATION INJURY N64-10008 01-16

BIOMEDICAL EVALUATION OF BURN SHOCK AGAINST BACKGROUND OF RADIATION EFFECT N64-10009 01-16

THIAMINE AND RIBOFLAVIN CONTENT OF TISSUES IN BURN SHOCK N64-10010 01-16

TRAINING FOR OXYGEN DEFICIENCY IN WHITE RATS IMMEDIATELY AFTER SEVERE BURN INJURY
JPRS-21999 N64-10391 01-16

BIOCHEMICAL CHANGES RESULTING FROM IRRADIATION, HIGH TEMPERATURE, BURNS, & POLIOMYELITIS - MINERAL

& PROTEIN METABOLISM, & IMMUNOLOGICAL DATA
JPRS-20298 N64-11224 02-16

BURN TREATMENT, BLOOD STRUCTURE, AND RADIATION SICKNESS STUDIES
JPRS-22180 N64-12764 04-16

TREATMENT OF SEVERE BURN SHOCK BY INTRA-ARTERIAL INFUSION OF BLOOD SUBSTITUTE AT LOW PRESSURE
N64-12766 04-16

PROPERDIN CONTENT IN BLOOD SERUM OF PATIENTS WITH SEVERE BURNS N64-12767 04-16

METHOD OF INFLICTING BURNS ON RESPIRATORY TRACT
N64-12770 04-16

HEALTH PROGRAM FOR PROVIDING BURN THERAPY TO VICTIMS OF NATIONAL ATOMIC DISASTER - TRAINING OF ALLIED HEALTH PERSONNEL
AD-426228 N64-14324 06-16

SURGICAL TREATMENT OF BURN INJURIES
JPRS-23933 N64-18398 10-16

PATHOGENETIC MECHANISMS IN DEVELOPMENT OF BURN SICKNESS
JPRS-24338 N64-18976 11-16

UREA USED FOR TREATMENT OF IMPAIRED EXCRETORY FUNCTION OF KIDNEYS IN BURN INJURY
JPRS-25928 N64-27324 19-16

INFECTION PREVENTION OF WOUNDS AND BURNS IN MASS CASUALTY SITUATIONS N64-30754 22-16

BURNER
SA AFTERBURNER
ABSORPTION BED, CATALYTIC BURNER, AND FILTERING SYSTEM FOR TRACE CONTAMINANT REMOVAL
N64-24626 17-16

WICK-FED BURNER WITH SIMULATED FLAT DIODE AS HEAT SOURCE FOR THERMIONIC POWER GENERATORS
REPT.-1 N64-25316 17-06

BURNING PROCESS
MEASUREMENT OF TEMPERATURE PROFILES OF BURNING SOLID PROPELLANTS BY MICROTHERMOCOUPLES
AERONAUTICAL ENG. REPT.-664 N64-11763 03-26

THERMAL DECOMPOSITION AND BURNING OF AMMONIUM PERCHLORATE
FTD-TT-62-1902/1&2&4 N64-15423 07-26

UNSTEADY BURNING OF LIQUID FUEL DROPLETS AND PERIODIC SOLUTIONS OF FUEL INJECTION PROCESSES
NASA-CR-55516 N64-15904 07-26

EVOLUTION OF STAR CLUSTERS IN THEIR BURNING PHASE
NASA-TR-R-144 N64-16730 08-05

TEMPERATURE DISTRIBUTION IN AMMONIUM PERCHLORATE WHEN BURNING
TIL/T-5475 N64-18141 10-26

TEMPERATURE PROFILES FOR BURNING AMMONIUM PERCHLORATE
FTD-TT-64-327/1&2&4 N64-21976 15-07

PHASE TRANSFORMATION OF BURNING POWDERS
FTD-TT-63-112/1&2&4 N64-23421 16-26

BURNING FOR DESTRUCTION OF ACTIVITY WASTE OF ORGANISMS N64-23780 16-16

TRANSITION FROM BURNING TO DETONATION IN PENTOLITE EXPLOSIVE - CONFINEMENT, PRESSURE, AND SHOCK SENSITIVITY
NOLTR-64-138 N64-33967 24-26

BURNING RATE
ATMOSPHERIC OXYGEN CONTENT EFFECT ON BURNING RATE OF FABRICS
NADC-MA-6316 N64-12378 03-26

EFFECT OF HELIUM SOUND FIELD ON BURNING RATE OF AMMONIUM PERCHLORATE-POLYURETHANE TYPE SOLID PROPELLANT
AIAA PAPER-64-108 N64-14853 06-26

CONTINUOUS MEASUREMENT OF SOLID ROCKET PROPELLANT BURNING RATES
JAC-369 N64-25582 17-26

EFFECTS OF PARTICLE SIZE AND NONSTOICHIOMETRIC COMPOSITION ON BURNING RATES OF COMPOSITE SOLID PROPELLANTS N64-28193 20-26

SERVO SYSTEM FOR CONTINUOUS MEASUREMENT OF BURNING RATE OF SOLID PROPELLANT
JPC-374 N64-29841 21-26

EFFECT OF OXYGEN-ENRICHED CAPSULAR ENVIRONMENT ON BURNING RATE OF CLOTHING
NADC-ML-6408 N64-29855 21-26

CONSTANT VOLUME METHOD FOR DETERMINING LAMINAR BURNING VELOCITY OF COMBUSTIBLE MIXTURES
REPT.-20 N64-32797 24-26

BURNING RATE AND FLAME TEMPERATURE MEASUREMENT OF BARIUM-CONTAINING COMBUSTIBLE MIXTURE
AFCRL-64-675 N64-33648 24-26

BURST
CF RUPTURE
INFLUENCE OF WIDE HUB ON ROOM TEMPERATURE BURST-STRENGTH OF MODEL STEAM TURBINE ROTORS
ARC-CP-661 N64-13910 05-17

ROOM TEMPERATURE BURST STRENGTH AND DUCTILITY OF MODEL DISKS IN FERRITE TURBINE DISK MATERIAL
ARC-CP-660 N64-16529 08-33

THERMAL DEGRADATION AND BURST PRESSURE OF B-58 AIRCRAFT WINDSHIELDS
FTDM-2861 N64-16634 08-19

METALLURGICAL HEAT TREATMENT OPTIMIZATION - RESULTS AND HYDROBURST PROCEDURE IN TESTING MARAGING STEEL CAPABILITIES FOR ROCKET MOTOR CASES
WADR-407-3 N64-18741 11-34

APPROXIMATE SOLUTION FOR BURSTING STRENGTH OF THIN-WALLED CYLINDERS WITH HEMISPHERICALLY CAPPED ENDS
IITRI-528-20 N64-31595 23-34

RECURRENT BURST-ERROR-CORRECTING CODES
RADC-TDR-64-149, VOL. II, N64-33538 24-01

BENDING & THERMAL FATIGUE AND BURST TESTS ON REACTOR TUBING
HW-83386 N64-33583 24-17

BUTADIENE
PREPARATION OF VINYL, STYRENE, BUTADIENE, ACRYLATE, AND POLYESTER FLUORINE MONOMERS
JPRS-22383 N64-11983 03-07

DILATOMETRIC EVALUATION OF, STRAIN RATE, LOAD, TEMPERATURE, AND HUMIDITY EFFECTS ON POLYURETHANE & END CARBOXYL POLYBUTADIENES
SRI-12 N64-14024 05-26

MECHANICAL PROPERTIES OF POLYBUTADIENE AND POLYURETHANE SOLID PROPELLANTS
REPT.-6 N64-20853 14-26

DYNAMIC MECHANICAL PROPERTIES OF POLYBUTADIENE ACRYLIC ACID COPOLYMER SOLID PROPELLANT
QTSR-1 N64-25476 17-26

FAR INFRARED SPECTRA OF HALOGENATED TOLUENE, BUTADIENE, AND GLYOXAL MOLECULES
ML-TDR-64-158, PT. 1 N64-30931 22-07

CHEMICAL PROPERTIES AND STRUCTURES OF CYCLOBUTADIENE N64-31575 23-07

SPECTRAL MOLECULAR ANALYSIS OF CIS-BUTADIENE RUBBER BY INFRARED SPECTROSCOPY
FTD-TT-64-459/1&2 N64-31799 23-19

BUTANE
MASS SPECTRA AND ION-MOLECULE REACTIONS IN ETHANE, PROPANE, AND BUTANE UNDER HIGH PRESSURE - SQUID

PROJECT
HUM-4-P N64-13257 04-07

PERFLUOROCYCLOBUTANE - THERMODYNAMIC PROPERTIES OF REAL GAS
BM-RI-6475 N64-23249 16-26

BUTENE
ISOTOPE EFFECTS ON DECOMPOSITION OF ACTIVATED CIS-BUTENE-2 AT LOW TEMPERATURES
AD-432304 N64-22127 15-07

INFRARED SPECTRA OF ORGANIC FLUORINE COMPOUNDS - PERFLUOROCYCLOPROPANE AND CIS AND TRANS FORMS OF PERFLUOROBUTENE-2
SSD-TDR-64-144 N64-28538 20-07

BUTYL
STRUCTURE OF TETRA N-BUTYL AMMONIUM FLUORIDE HYDRATE CRYSTALS N64-10978 02-28

BUTYRIC ACID
PHYSIOLOGY AND BIOCHEMISTRY OF PLANTS - EFFECT OF INDOLYL ACETIC ACID AND INDOLYL BUTYRIC ACID ON ALGAE
FTD-MT-63-49 N64-18672 11-16

BY-PASS ENGINE
CF POWER PLANT
ANALYSIS AND APPLICATIONS OF BYPASS ENGINE
DVL-270 N64-18487 10-27

TEMPERATURE EFFECT ON NOISE OF BYPASS JET
NASA-TN-D-2378 N64-26451 18-27

C

C-BAND
OPTIMIZATION OF ELECTRICAL AND MECHANICAL CHARACTERISTICS OF RIGID C-BAND RADOME
RADC-TDR-63-481 N64-14311 06-08

THREE-PORT C-BAND FERRITE DUPLEXER
SJ.M-220-0037-4 N64-19803 12-09

C-BAND RADAR-BEACON TRACKING FOR MERCURY PROJECT
N64-20496 13-08

SOLID STATE DEVICE - FREQUENCY CONVERTER FOR L-, S-, C-, AND X-BANDS
AD-432394 N64-21396 14-08

C- AND KU-BAND SEMICONDUCTOR DIODE LIMITER DEVICES
AD-431966 N64-21551 15-09

CRYSTAL FREQUENCY CONVERTER UNITS FOR L-, S-, C-, AND X-BANDS
IDR-9 N64-24808 17-08

C- AND K-BAND SEMICONDUCTOR TRANSMIT-RECEIVE TUBE
REPT.-2 N64-25523 17-09

FREQUENCY CONVERTER UNITS FOR L-BAND, S-BAND, C-BAND, AND X-BAND
REPT.-11 N64-27413 19-09

FREQUENCY CONVERTERS FOR L-BAND, C-BAND, S-BAND, X-BAND, & KA-BAND
AD-602517 N64-29657 21-09

DEVELOPMENT OF HIGH POWER FAST FERRITE SWITCHES IN C- AND S-BAND
IDR-3 N64-30867 22-09

FREQUENCY CONVERTER UNITS FOR C-BAND, L-BAND, S-BAND, AND X-BAND
IDR-3 N64-31181 22-09

C-130 AIRCRAFT
STRUCTURAL FLIGHT LOAD TEST DATA FOR C-130 AIRCRAFT
ASD-TDR-64-78 N64-26321 18-04

CABIN ATMOSPHERE
SPACE CABIN ATMOSPHERES - HIGH OXYGEN TENSION IN ANIMALS AND HUMANS, OXYGEN TOXICITY, AND DRUG THERAPY
NASA-SP-47 N64-31219 22-16

CABLE
S COAXIAL CABLE

CADMIUM
DISTRIBUTION OF IMPURITIES AND DISLOCATIONS IN CADMIUM CRYSTALS N64-10803 02-18

HEAT RESISTANT ZINC AND CADMIUM CONVERSION COATINGS FOR STEEL
RIA-TR-63-3345 N64-11536 03-18

DIFFUSION OF CADMIUM IN CADMIUM SULFIDE
N64-13748 05-25

NEUTRON LIFETIME OF CADMIUM AND ZINC AT DIFFERENT ENERGY STATES - ZERO-FIELD HYPERFINE INTERVAL MEASUREMENTS
AD-424139 N64-14043 05-23

CADMIUM REFINING BY AMALGAM ELECTROLYSIS
EX-RI-6352 N64-14244 06-17

HIGH TEMPERATURE GASEOUS EQUILIBRIUM OF CADMIUM & CADMIUM CHLORIDE - SPECTROPHOTOMETRIC INVESTIGATION
IS-739 N64-14887 06-07

DELTA TITANIUM-CADMIUM PLATING FOR HIGH STRENGTH STEELS
A464 N64-17130 09-17

CADMIUM ABUNDANCES IN METEORITIC AND TERRESTRIAL MATTER N64-18111 10-05

CHROMATOGRAPHIC CONCENTRATION AND SPECTROGRAPHIC DETERMINATION OF CADMIUM, YTTRIUM, SCANDIUM AND LANTHANON TRACES IN URANIUM METAL
EUR-587.E N64-20878 14-07

EFFECTS OF CADMIUM PLATE SUBSTRATE ON WEAR LIFE AND CORROSION RESISTANCE OF DRY FILM LUBRICANT COATED BEARINGS
A754 N64-22596 15-17

VISIBLE ABSORPTION SPECTRA OF CADMIUM IN CADMIUM HALIDES AND LEAD CHLORIDE AND IN LEAD BROMIDE
NASA-RP-247 N64-26074 18-19

IMPURITY EFFECTS ON RESISTIVITY RECOVERY SPECTRUM OF COLD WORKED CADMIUM
TR-6 N64-30678 22-18

GYROMAGNETIC RATIO DETERMINATION OF EVEN ISOTOPES OF CADMIUM AND MERCURY BY HIGH FIELD DOUBLE RESONANCE
NASA-RP-332 N64-32430 23-23

CYCLE LIFE TESTS ON SILVER OXIDE-ZINC AND SILVER OXIDE-CADMIUM CELL SEPARATORS FOR SPACECRAFT APPLICATION
NASA-CR-57013 N64-33186 24-06

CADMIUM ALLOY
OPTICAL CONSTANTS OF SILVER CADMIUM ALLOYS NEAR 300 MILLIMICRONS WAVELENGTH RANGE
IS-863 N64-25816 17-18

SOLVENT ACTIVITY IN RAOULT LAW REGION OF GALLIUM-CADMIUM SYSTEM
LA-2997 N64-26800 18-07

CADMIUM CHLORIDE
HIGH TEMPERATURE GASEOUS EQUILIBRIUM OF CADMIUM & CADMIUM CHLORIDE - SPECTROPHOTOMETRIC INVESTIGATION
IS-739 N64-14887 06-07

CADMIUM COMPOUND
POTENTIOMETRIC CONCENTRATION STUDY OF MERCURY, CADMIUM, LEAD, AND ZINC HALIDE CELLS
NAA-SR-881 N64-14083 05-23

THERMOPOTENTIAL MEASUREMENTS ON MOLTEN SALTS, LEAD CHLORIDE, CADMIUM CHLORIDE, AND CADMIUM BROMIDE, UNDER THERMAL GRADIENTS
NASA-RP-129 N64-15883 07-19

PREPARATION AND ELECTROLUMINESCENCE OF ZINC AND CADMIUM SEMICONDUCTOR MATERIALS FOR LASERS

AD-442258 N64-31642 23-25

COMPENSATION LIMITED CONDUCTIVITY IN CADMIUM AND ZINC BINARY SEMICONDUCTORS N64-31643 23-25

CADMIUM FLUORIDE
ABSORPTION AND EMISSION SPECTRA STUDIES OF CALCIUM FLUORIDE AND CADMIUM FLUORIDE CRYSTALS DOPED WITH TRANSITION METAL AND/OR RARE EARTH IONS FOR USE AS LASER HOSTS
AD-446246 N64-33749 24-25

CADMIUM SELENIDE
ELECTRICAL & ELECTRONIC PROPERTIES OF CADMIUM SELENIDE
DS-134 N64-14040 05-19

EVAPORATION CHARACTERISTICS FOR CADMIUM SELENIDE - HOT ELECTRON EMITTER
AFCRL-64-390 N64-22686 15-25

PHOTOCONDUCTIVE CADMIUM SULFIDE AND SELENIDE MATERIALS FOR SOLIC STATE IMAGE INTENSIFIER PANEL
MTER-1 N64-24898 17-25

SEMICONDUCTOR CHARACTERISTICS OF CADMIUM SELENIDE PHOTOCONDUCTIVE CELLS IN COPLANAR AND SANDWICH CONSTRUCTIONS
MTER-2 N64-24899 17-25

COPLANAR AND SANDWICH CONSTRUCTION OF CADMIUM SELENIDE PHOTOCONDUCTIVE CELL
MTER-3 N64-24900 17-25

EFFECT OF ZINC IMPURITIES ON PHOTOELECTRONIC CHARACTERISTICS OF SINTERED CADMIUM SELENIDE LAYERS
MTER-8 N64-28197 20-25

PURIFICATION BY SUBLIMATION OF CADMIUM SELENIDE POWDER CONTAINING ZINC IMPURITY
MTER-9 N64-28198 20-25

SPECTRAL ANALYSIS OF CADMIUM SELENIDE POWDERS
MTER-10 N64-28199 20-25

DIELECTRICS, MICROELECTRONICS, AND THIN FILMS OF CADMIUM SELENIDE AND ZINC TELLURIDE
QR-1 N64-30205 21-25

CADMIUM SELENIDE FILM AS EMITTER OF HOT ELECTRONS AND ATTENUATION OF HOT ELECTRONS IN GOLD
AFCRL-64-673 N64-31043 22-25

OPTICAL SECOND-HARMONIC GENERATION IN ZINC SULFIDE-CADMIUM SULFIDE AND CADMIUM SULFIDE-CADMIUM SELENIDE ALLOYS
ML-1231 N64-33695 24-25

HOMOGENEITY OF CADMIUM SELENIDE-CADMIUM SULFIDE SOLID SOLUTIONS BY X-RAY FLUORESCENCE
GNE/PHYS/64-6 N64-33759 24-25

CADMIUM SULFIDE
LUMINOSITY OF CADMIUM SULFIDE & SILICON COOLED TO LIQUID HELIUM TEMPERATURE & BOMBARDED BY THREE ELECTRONS - TRANSITIONS N64-11402 02-23

PHOTO MAGNETO ELECTRIC STUDY OF SINGLE CRYSTALS OF CADMIUM SULFIDE AND THIN-ROLLED FOILS OF BISMUTH
RADC-TDR-63-117 N64-11888 03-28

CADMIUM SULFIDE THIN FILMS, PROPERTIES OF CADMIUM SULFIDE PHOTOVOLTAIC CELLS, AND MODEL OF IDEAL PHOTOVOLTAIC CELL
NASA-CR-55090 N64-12403 03-06

PROPERTIES OF THIN CADMIUM SULFIDE EVAPORATED FILMS FOR PHOTOVOLTAIC CELLS, AND FILM PREPARATION
NASA-CR-55212 N64-13185 04-25

CADMIUM SULFIDE EVAPORATION SOURCE WITH LIMITED DIFFUSION RATE - HOT ELECTRON EMITTER EVALUATION
AFCRL-63-553 N64-13659 05-25

DIFFUSION OF CADMIUM IN CADMIUM SULFIDE
N64-13748 05-25

CHARGE TRANSPORT AND CARRIER GENERATION IN CADMIUM SULFIDE
E-745-P N64-14464 06-23

PRODUCTION OF THIN FILMS OF CADMIUM SULFIDE, AND IDENTIFICATION & CONTROL OF PROCESSING PARAMETERS TO IMPROVE PHOTOVOLTAIC CONVERSION EFFICIENCY
NASA-CR-55737 N64-15861 07-06

PRODUCTION AND TESTING OF STANDARDIZED THIN FILMS OF CADMIUM SULFIDE, AND EVALUATION OF FILMS FOR PHOTOVOLTAIC CELL USE
NASA-CR-55740 N64-15866 07-06

DEPOSITION OF THIN FILMS OF CADMIUM SULFIDE FOR STUDY AS POSSIBLE PHOTOVOLTAIC CELLS
NASA-CR-55959 N64-15867 07-06

ELECTRON TRANSPORT AND RELATION TO GREEN EDGE EMISSION IN CADMIUM SULFIDE CRYSTALS
E-745-P, NO. 4 N64-16503 08-25

THIN FILM FLEXIBLE CADMIUM SULFIDE SOLAR CELLS
AD-432192 N64-17476 09-25

CADMIUM SULFIDE LARGE AREA THIN FILM PHOTOVOLTAIC SOLAR ENERGY CONVERTER
NASA-CR-55738 N64-17681 09-06

PHOTOVOLTAGES, PHOTOCURRENTS, AND ABSORBED GASES IN CADMIUM SULFIDE SINGLE CRYSTALS
RADC-TDR-64-95 N64-17966 10-23

HIGH FREQUENCY TREATMENT OF CADMIUM SULFIDE SINGLE CRYSTAL TO INCREASE CONDUCTIVITY
N64-17968 10-25

AMBIENT AND TEMPERATURE STUDIES ON CADMIUM SULPHIDE THIN FILM DEVICES AND D-C STABILIZED WIDEBAND AMPLIFIER
AD-419917 N64-18222 10-09

HOT ELECTRON EMITTERS - VAPOR DEPOSITION OF CADMIUM SULFIDE & PHOTOELECTRIC MEASUREMENT OF HOT ELECTRON RANGE IN GOLD
AFCRL-64-134 N64-18604 11-25

PHOTORESISTANCE PLATES FROM POWDERED CADMIUM SULFIDE N64-24565 17-23

CADMIUM SULFIDE THIN FILM PHOTOVOLTAIC CELLS
NASA-CR-54108 N64-24845 17-06

PHOTOCONDUCTIVE CADMIUM SULFIDE AND SELENIDE MATERIALS FOR SOLID STATE IMAGE INTENSIFIER PANEL
MTER-1 N64-24898 17-25

SPECTROMETRICAL STUDIES OF CADMIUM SULFIDE CRYSTAL OPTICAL MODES AND REFRACTIVE INDICES
ML-1108 N64-25590 17-07

FORMATION HEATS AND FREE ENERGIES OF SULFIDES OF MANGANESE, IRON, ZINC, AND CADMIUM
BM-RI-6495 N64-25841 18-07

MANUFACTURE OF CADMIUM SULFIDE THIN FILM SOLAR CELLS
NASA-CR-54107 N64-25959 18-17

PREPARATION AND SPECTRAL RESPONSE OF THIN FILM CADMIUM SULFIDE SOLAR CELLS
AD-601459 N64-27929 20-06

GENERATION OF RADIO FREQUENCY POWER OUTPUTS IN CADMIUM SULFIDE CRYSTALS WITHOUT USE OF TRANSDUCERS
RADC-TDR-64-246 N64-28542 20-09

PHOTOMAGNETOELECTRIC DETECTOR OF CADMIUM SULFIDE SINGLE CRYSTALS AND TRANSPORT PROPERTIES OF ROLLED THIN BISMUTH FOIL
RADC-TDR-64-349 N64-28560 20-25

PHOTOCONDUCTIVITY OF CADMIUM SULFIDE EXCITED BY QUENCHING INFRARED RADIATION
RADC-TDR-64-3479 N64-28561 20-25

THIN FILM DEPOSITION TECHNIQUES FOR STUDY OF GOLD-

CADMIUM SULFIDE-GOLD STRUCTURES AS CAPACITOR CATHODES IN MICROWAVE TUBES
IR-3 N64-29328 21-25

FABRICATION OF THIN FILM CADMIUM SULFIDE PHOTOVOLTAIC CELLS BY CHEMICAL SPRAY DEPOSITION
QR-1 N64-29579 21-06

FIELD AND CURRENT DISTRIBUTIONS IN CADMIUM SULFIDE SEMICONDUCTORS AND PHOTOCONDUCTORS
PR-1 N64-30771 22-25

SEMICONDUCTOR DEVICE STUDIES - COPPER-DOPED AND SILVER-DOPED CADMIUM SULFIDE CRYSTALS, IMPURITY EFFECT ON ZINC SELENIDE ELECTRIC PROPERTIES, AND JUNCTION LASER DESIGN
AFCRL-64-702 N64-31819 23-25

PHOTOCONDUCTIVITY OF MICROCRYSTALLINE POWDERS OF CADMIUM SULFIDE
LNF-64/30 N64-32002 23-25

THIN FILM CADMIUM SULFIDE SOLAR CELL ARRAY INVESTIGATION
QTPR-3 N64-32685 23-06

THIN FILM SOLAR CELLS AND SOLAR CELL TESTING - PHOTOVOLTAIC CELLS, RADIATION DAMAGE TO CADMIUM SULFIDE SOLAR CELLS, AND AIRPLANE TESTING OF SOLAR CELLS
NASA-CR-59014 N64-32726 24-06

BACKWALL, THIN FILM, CADMIUM SULFIDE SOLAR CELL ON PLASTIC FILM SUBSTRATE N64-32730 24-06

CADMIUM SULFIDE SOLAR CELL DEVELOPMENTS
N64-32732 24-06

RADIATION DAMAGE TO CADMIUM SULFIDE, THIN FILM SOLAR CELLS N64-32733 24-06

OPTICAL SECOND-HARMONIC GENERATION IN ZINC SULFIDE-CADMIUM SULFIDE AND CADMIUM SULFIDE-CADMIUM SELENIDE ALLOYS
ML-1231 N64-33695 24-25

HOMOGENEITY OF CADMIUM SELENIDE-CADMIUM SULFIDE SOLID SOLUTIONS BY X-RAY FLUORESCENCE
GNE/PHYS/64-6 N64-33759 24-25

RADIATION DAMAGE AND PHYSICAL DIMENSION CHANGE IN CADMIUM SULFIDE CRYSTAL
GNE-64 N64-33818 24-25

THIN FILM CADMIUM SULFIDE PHOTOVOLTAIC CELLS
NASA-CR-54173 N64-34004 24-25

CADMIUM TELLURIDE
FLUORESCENCE IN CADMIUM TELLURIDE AND PARAMAGNETIC RESONANCE OF CHROMIUM IN CADMIUM TELLURIDE
AD-404859 N64-18202 10-25

PARAMAGNETIC RESONANCE OF CHROMIUM IN CADMIUM TELLURIDE N64-18204 10-25

EVALUATION OF MERCURY TELLURIDE-CADMIUM TELLURIDE ALLOY SYSTEM AND OTHER MATERIALS FOR USE IN INFRARED DETECTION
AD-429997 N64-18655 11-25

CADMIUM-TELLURIUM MATERIAL FOR SOLAR ENERGY CONVERTERS - PHOTOVOLTAIC CELL RESEARCH
N64-19837 12-06

CADMIUM TELLURIDE ENERGY CONVERTERS
NASA-CR-56509 N64-23522 16-09

CADMIUM TELLURIDE ENERGY CONVERTER
NASA-CR-56512 N64-23523 16-09

CADMIUM TELLURIDE ENERGY CONVERTERS
NASA-CR-56555 N64-23989 16-06

CADMIUM TELLURIDE THIN FILM SOLAR CELL
QPR-7 N64-24391 17-06

EMISSION PROCESS IN II-VI COMPOUND - CADMIUM TELLURIDE
AD-401674 N64-24940 17-25

CADMIUM TELLURIDE AND GALLIUM ARSENIDE THIN FILM PHOTOVOLTAIC CELLS
QPR-6 N64-24991 17-25

RECOMBINATION RADIATION IN CADMIUM TELLURIDE DURING EXCITATION BY FAST ELECTRONS
JPRS-25344 N64-25126 17-23

GROWTH, VACUUM DEPOSITION, AND PROTECTIVE COATING OF CADMIUM TELLURIDE THIN FILM SOLAR CELLS
REPT.-6 N64-25211 17-06

PHOTOCONDUCTIVITY IN POLYCRYSTALLINE CADMIUM TELLURIDE
AD-601800 N64-28821 20-25

CADMIUM TELLURIDE ENERGY CONVERTER - NEW ZONE REFINING TECHNIQUE
NASA-CR-56836 N64-29514 21-06

THIN FILM CADMIUM TELLURIDE POLYCRYSTALLINE SOLAR CELLS
QTPR-4 N64-31252 22-06

PHOSPHORUS DOPING OF CADMIUM TELLURIDE SINGLE CRYSTALS FOR P TYPE AND JUNCTION DIFFUSION WITH ZINC FOR N TYPE SEMICONDUCTORS N64-31644 23-25

CAPACITANCE AND ELECTROLUMINESCENCE MEASUREMENTS FOR CADMIUM TELLURIDE P-N JUNCTION DIODES
N64-31645 23-25

THIN, POLYCRYSTALLINE, CADMIUM TELLURIDE SOLAR CELLS N64-32729 24-06

RELATIONSHIP OF YIELD STRENGTH TO ATOMIC BONDING IN TELLURIDES OF ZINC, CADMIUM, AND MERCURY
AD-418732 N64-32971 24-25

CALCINATION
HEATING VELOCITY INFLUENCE ON KINETICS OF CALCINING MINERAL SUBSTANCES N64-11976 03-13

GAS CHROMATOGRAPH FOR DETERMINATION OF GASES IN SUPERHEATED STEAM FROM CALCINATION OF RADIOACTIVE WASTE IN SULFUR
DP-880 N64-20678 13-07

AIR DISTRIBUTOR CAPS FOR FLUIDIZED BED CALCINER
IDO-14629 N64-22085 15-07

FLUIDIZED-BED CALCINATION PROCESS FOR ALUMINUM NITRATE WASTES FROM REACTOR FUELS
IDO-14627 N64-27075 19-07

CALCITE
INTERACTION OF DISLOCATIONS DURING THINNING OF CRYSTALS OF CALCITE AND OF ZINC
N64-12761 04-25

NARROW LINE PARAMAGNETIC RESONANCE ABSORPTIONS IN SINGLE CRYSTALS OF CALCITE
RADC-TDR-64-34 N64-18031 10-25

INORGANIC RARE EARTH OXIDES, RADIATION EMANATION OF NEODYMIUM IONS, TANTALUM CALCITE, & LEAD OXIDE-BISMUTH OXIDE
JPRS-24372 N64-21857 15-07

CRYSTAL DATA ON TANTALUM CALCITE
N64-21860 15-07

REACTION MECHANISM OF CATION COLLECTOR AND WITH APATITE AND CALCITE N64-31406 23-07

CALCIUM
ALGAE FOR HUMAN NUTRITION AND CALCIUM & PHOSPHORUS USED TO REDUCE STRONTIUM-90 CONTENT OF RAT SKELETON
JPRS-22295 N64-12442 04-16

CALCIUM AND PHOSPHORUS DIETARY SUPPLEMENT AS MEANS OF REDUCING STRONTIUM-90 ACCUMULATION IN SKELETAL BONES OF RATS N64-12444 04-16

INELASTIC SCATTERING OF HIGH ENERGY ELECTRONS FROM CARBON, OXYGEN, AND CALCIUM
AD-424383 N64-12924 04-23

BED REST STUDY OF RADIOGRAPHIC BONE DENSITY AND URINE ANALYSIS FOR CALCIUM AND PHOSPHORUS
NASA-CR-55313 N64-14898 06-16

WHOLE-BODY SCINTILLATION COUNTER IN STUDY OF CALCIUM 47 TURNOVER N64-15216 07-16

EXTRACTION OF HAFNIUM, THORIUM, URANIUM, CALCIUM, MAGNESIUM, BARIUM, AND STRONTIUM FROM PERCHLORIC ACID SOLUTIONS
IS-777 N64-15337 07-07

CALCIUM REDUCTION AND CONSOLIDATION OF SUPERIOR QUALITY MOLYBDENUM ALLOYS
WCA-1001-9 N64-17356 09-18

PHYSICAL PROPERTIES OF CALCIUM-AMMONIA SOLUTIONS AND AMMONIA BATTERIES
NOLC-597 N64-22880 16-06

PHYSICAL PROPERTIES OF CALCIUM-AMMONIA SOLUTIONS N64-22881 16-07

CHEMICAL REDUCTION USING SOLUTION OF CALCIUM IN MOLTEN SALT
UCRL-11205 N64-23331 16-19

IRON, MAGNESIUM, CALCIUM, AND NICKEL DISTRIBUTION IN MURRAY CARBONACEOUS CHONDRITE
NASA-TM-X-54050 N64-24041 16-18

IRON, MAGNESIUM & CALCIUM DISTRIBUTION IN OLIVINES & RHOMBIC PYROXENES OF CHONDRITES
NASA-TM-X-54037 N64-26593 18-05

THERMIONIC TRANSDUCER, CONVERTER, DIODES, SINGLE CRYSTAL ELECTRON WORK FUNCTION, TUNGSTEN ELECTRON EMISSION, AND SURFACE DIFFUSION FROM CALCIUM TO TUNGSTEN
WGLR-2/1964 N64-26756 18-06

IRON, MAGNESIUM, AND CALCIUM DISTRIBUTION IN OLIVINES AND RHOMBIC PYROXENES OF CHONDRITES
NASA-RP-341 N64-31218 22-12

RADIAL VELOCITIES IN FLOCCULI AND UNDISTURBED CHROMOSPHERE AND RELATION TO MAGNETIC FIELDS - MOTION OF IONIZED CALCIUM
AD-420769 N64-32078 23-28

CALCIUM ENRICHED LIQUID DIET FOR ASTRONAUT IN SPACE
NASA-CR-59003 N64-33044 24-16

DISTRIBUTION OF RADIOACTIVE CALCIUM AND ITS EXCRETION FROM HEALTHY AND LEAD-POISONED ANIMALS
JPRS-26888 N64-33854 24-16

CALCIUM COMPOUND
FUSIBILITY OF ANHYDROUS PERCHLORIC ACID SALTS - LITHIUM-CALCIUM & SODIUM-CALCIUM
FTD-TT-63-565/1&2&4 N64-11165 02-19

CONDUCTIVITY AND TRANSPORT NUMBERS FOR ZIRCONIUM OXIDE-CALCIUM OXIDE CERAMIC SYSTEMS
FTD-TT-62-1275/1&2&4 N64-14907 06-23

MASS SPECTROMETRIC STUDIES OF VAPORIZATION OF SULFIDES OF CALCIUM, BARIUM, AND STRONTIUM
WADD-TR-60-782, PT. 21 N64-17970 10-07

RADIO-RELEASE REACTION OF WATER VAPOR WITH RADIOACTIVE CALCIUM CARBIDE FOR MEASURING SMALL AMOUNT OF WATER VAPOR IN UPPER ATMOSPHERE
ORO-891 N64-19923 12-07

PHOSPHOR PREPARATION USING CALCIUM SULFATE AND METALLIC ACTIVATORS N64-24566 17-07

EFFECT OF CALCIUM SULFATE AND METALLIC ACTIVATORS ON EXOELECTRONIC EMISSION OF PHOSPHORS N64-24567 17-23

THERMOLUMINESCENCE OF PHOSPHORS BASED ON CALCIUM SULFATE WITH MANGANESE AND SAMARIUM ACTIVATORS N64-24568 17-23

ALUMINUM EXTRACTION CHARACTERISTICS OF CALCIUM ALUMINATES IN WATER AND IN SOLUTIONS OF SODIUM HYDROXIDE AND SODIUM CARBONATE
BM-RI-6528 N64-30129 21-07

YTTRIUM-ALUMINUM GARNET /YAG/ CRYSTAL, LANTHANUM ALUMINATE, & CALCIUM MOLYBDATE AS HOST MATERIALS FOR SOLID STATE ROOM TEMPERATURE LASERS
IER-3 N64-30170 21-25

CALCIUM FLUORIDE
CF FLUORSPAR
ELECTRON NUCLEAR DOUBLE RESONANCE METHOD FOR DETERMINING INTERACTION OF EUROPIUM ION IN CALCIUM FLUORIDE WITH FLUORINE NUCLEI
AFCRL-63-502 N64-11935 03-23

INFRARED ABSORPTION OF HYDROGEN AND DEUTERIUM IONS IN CALCIUM FLUORIDE
AFCRL-64-284 N64-18878 11-25

FIRST-STAGE DENSIFICATION OF CALCIUM FLUORIDE POWDER UNDER HIGH PRESSURE AND FIXED TEMPERATURE
UCRL-11214 N64-18986 11-19

PREPARATION OF SINGLE CRYSTALS OF CALCIUM FLUORIDE BY ZONAL FUSION N64-20929 14-25

EFFECT OF ELECTRIC FIELD ON GREEN FLUORESCENCE TRANSITION SPECTRUM OF ERBIUM IN SINGLE CRYSTAL CALCIUM FLUORIDE
RTD-TDR-63-4017 N64-22209 15-24

INFRARED EXCITATION OF CALCIUM FLUORIDE CRYSTALS WITH DYSPROSIUM AND FLUORESCENT EMISSION N64-23002 16-25

INFRARED EXCITATION OF CALCIUM FLUORIDE CRYSTALS CONTAINING URANIUM AND FLUORESCENT EMISSION N64-23003 16-25

PUMPING OF CALCIUM FLUORIDE-DYSPROSIUM ION LASER USING GALLIUM ARSENIDE DIODES
NASA-CR-58645 N64-29407 21-09

PHONON INTERACTIONS IN CRYSTALS - APPLICATION TO AMPLIFIERS, OSCILLATORS, AND FREQUENCY CONVERTERS OF MICROWAVE ACOUSTIC ENERGY
QTR-4 N64-30908 22-25

ZERO-FIELD PARAMAGNETIC RESONANCE SPECTRA OF WEAK CRYSTALLINE FIELD SITES OF CERIUM AND PRASEODYMIUM IN CALCIUM FLUORIDE
REPT.-3-53-64-2 N64-33148 24-25

ABSORPTION AND EMISSION SPECTRA STUDIES OF CALCIUM FLUORIDE AND CADMIUM FLUORIDE CRYSTALS DOPED WITH TRANSITION METAL AND/OR RARE EARTH IONS FOR USE AS LASER HOSTS
AD-446246 N64-33749 24-25

CALCIUM NIOBATE
S LASER

CALCIUM PHOSPHATE
FORMATION OF CALCIUM PHOSPHATE CRYSTALS
UR-628 N64-10189 01-07

QUANTITATIVE ANALYSIS BY RADIOACTIVE PHOSPHORUS-32 OF TRICALCIUM PHOSPHATE SOLUBILIZED BY BACILLI N64-13474 05-14

CALCULUS
MATHEMATICAL LOGIC FOR SENTENTIAL CALCULUS AND ARISTOTILIAN SYLLOGISTIC SYSTEMS
OTS-61-11302 N64-10424 01-20

APPLICATIONS OF CALCULUS FOR FACTORIAL ARRANGEMENTS - TWO WAY ELIMINATION OF HETEROGENEITY
MRC-410 N64-12331 03-20

OPERATIONAL CALCULUS IN TWO VARIABLES FOR APPLICATION TO BIOLOGICAL PROBLEMS N64-15209 07-20

APPLICATION OF CALCULUS FOR FACTORIAL ARRANGEMENTS TO UNEQUAL NUMBERS IN VARIANCE ANALYSIS
MRC-411 N64-21329 14-20

SOLVING NONLINEAR BOUNDARY VALUE PROBLEM USING

METHOD OF LIE SERIES CALCULUS
AD-432698 N64-21380 14-20

CALIBRATION
CF STANDARDIZATION
CALIBRATION OF ELECTRONIC COUNTER AND PULSE HEIGHT ANALYZER FOR PLOTTING ERYTHROCYTE VOLUME SPECTRA
CARI-63-8 N64-11953 03-15

DESIGN, DEVELOPMENT, ASSEMBLY, AND CALIBRATION OF HYDROSTATIC OMNIDIRECTIONAL ACCELEROMETERS
NASA-CR-55091 N64-12070 03-15

CALIBRATION OF TRACKING SYSTEMS USING SATELLITE & ROCKET PROGRAMS - FEASIBILITY STUDY
AFCRL-63-789 N64-12296 03-08

CALIBRATION AND TESTING OF GAMMA-RAY SCINTILLATION SPECTROMETERS AND MULTICHANNEL PULSE HEIGHT ANALYZERS
IDO-16923 N64-13167 04-15

AN/DPN-66 C-BAND TRANSPONDER FOR RANGE CALIBRATION SATELLITES
AFCRL-63-912 N64-13666 05-09

SATELLITE, BOOSTER, TRACKING STATION, GROUND STATION, & COMPUTER PROGRAM CONSIDERATIONS FOR CALIBRATION SATELLITE SYSTEM
AFCRL-63-920 N64-13670 05-29

METHOD FOR ELIMINATING ERROR IN CALIBRATION OF RADIOMETERS
SSD-TDR-63-310 N64-14669 06-15

TESTING OF RADAR STATIONS AND CALIBRATION OF SIGNAL TIME DELAY OF CONTINUOUS WAVE SYSTEM
N64-15148 07-08

SATELLITE SYSTEM FOR CALIBRATION OF RANGE INSTRUMENTATION N64-15325 07-15

UPPER ATMOSPHERE GAS DENSITY MEASUREMENT SENSOR AND CALIBRATION METHODS
NASA-CR-55789 N64-16067 07-15

DYNAMIC CALIBRATION OF PRESSURE TRANSDUCERS
NBS-MONOGRAPH-67 N64-16236 08-15

TYPES AND CHARACTERISTICS OF PRESSURE TRANSDUCERS AND CONCEPTS OF CALIBRATION AND ANALYSIS
N64-16237 08-15

CONSTRUCTION AND CALIBRATION OF APPARATUS FOR STUDY OF LIQUID OXIDIZERS CONTAINING FLUORINE
AD-429849 N64-16849 08-26

CALIBRATION OF SEISMOGRAPHS WITH BRIDGE AND PULSE GENERATING CIRCUITS
AFCRL-63-905 N64-19210 11-15

OPERATING RANGES AND CALIBRATION TESTS RESULTS OF HYPERSONIC WIND TUNNEL
ARL-63-189 N64-19306 12-10

CALIBRATION AND PERFORMANCE CHARACTERISTICS OF FIELD INTENSITY METER
NBS-7971 N64-21175 14-15

CALIBRATION OF COMPARATORS FOR BALLISTIC CAMERA DATA - PHOTOGRAMMETRIC DATA REDUCTION ANALYSIS
HTC-TDR-63-10 N64-21247 14-15

CALIBRATION & STANDARDIZATION PROCEDURES
NBS-MISC.-PUBL.-250 N64-21348 14-15

CALIBRATION OF PROTOTYPE EXPLORER IV SATELLITE USING GAMMA RAYS, X-RAYS AND ELECTRONS OVER AZIMUTHAL AND INCLINATION ANGLES
NT-1671 N64-21490 14-32

SATELLITES FOR CALIBRATION OF BALLISTIC MISSILE EARLY WARNING SYSTEM /BMEWS/ RADARS
ESD-TDR-63-454 N64-21599 15-08

EVALUATING CALIBRATION METHODS FOR IONIZATION GAUGE
RSIC-144 N64-22723 15-15

CALIBRATION OF STANDARD SOLAR CELLS
RAE-TN-SPACE-53 N64-22969 16-06

RANGE INSTRUMENT CALIBRATION
ESD-TDR-64-188 N64-23203 16-15

TARGET CALIBRATION REFERENCES AND PROCEDURES FOR RADAR MEASUREMENT PURPOSES N64-24719 17-08

CALIBRATION OF ACTINOMETRIC INSTRUMENTS USING INFRARED RADIATION N64-24787 17-23

OPTICAL AND ELECTRONIC MEASUREMENT SYSTEMS FOR ENGINEERING DESIGN OF RANGE CALIBRATION SATELLITE
ESD-TDR-64-255 N64-25893 18-32

FEASIBILITY OF SELF-CALIBRATION OF TRACKING SYSTEMS
AFCRL-64-441 N64-26243 18-08

TIROS IV RADIOMETER PRINCIPLES AND CALIBRATION AND RADIATION DATA PROCESSING
NASA-TM-X-51921 N64-27404 19-32

ENERGY AND WAVELENGTH CALIBRATION OF GONDOLA V SPECTROMETER WITH GOLD-DOPED GERMANIUM DETECTOR BY BALLOON IN STRATOSPHERE
CARDE-TN-1591/64 N64-27533 19-15

CALIBRATION OF EPPLEY THERMOPILE IN ENERGY RANGES NEEDED FOR SOLAR SIMULATION N64-28205 20-15

CALIBRATION OF FIVE CHANNEL TIROS SATELLITE RADIOMETER N64-28206 20-15

CALIBRATION METHODS FOR HIGH AND ULTRAHIGH VACUUM GAUGES N64-28208 20-15

RADIAL DISTORTION CALIBRATION OF BALLISTIC CAMERAS
WRE-TN-OID-34 N64-28730 20-15

MISSILE IMPACT LOCATING SYSTEM/BROAD OCEAN AREA - POST-TEST CALIBRATION N64-29110 21-08

CALIBRATION AND CONTROL OF AMPLITUDE VOLTAGE ANALYZERS N64-29130 21-15

CALIBRATION OF PHOTOGRAPHIC FILM DOSIMETERS FOR HIGH ENERGY GAMMA RADIATION
AERE-R-4168 N64-30874 22-15

CALIBRATION TESTS OF 14 X 14-INCH TRISONIC WIND TUNNEL FOR MACH NUMBER RANGE 0.2 THROUGH 5.0
NASA-TM-X-53113 N64-31551 23-10

CALIBRATION OF MERCURY STRAIN GAUGES FOR MEASUREMENT OF PHYSIOLOGICAL CHANGES IN BODY PARTS
AAL-TDR-64-7 N64-31937 23-15

BELLOWSPHONE CALIBRATOR FOR DETERMINING FREQUENCY AND PHASE RESPONSE OF INFRASONIC PRESSURE MICROPHONES N64-32260 23-15

RANGE INSTRUMENT CALIBRATION SATELLITE
AEDR-2135 N64-32393 23-32

STANDARDS LABORATORY CONFERENCE - CALIBRATION AND MEASUREMENT
NBS-MISC-PUBL-248 N64-32528 23-10

ACOUSTIC VIBRATION MEASUREMENTS FOR CALIBRATION OF SONAR TRANSDUCERS
BBN-1135 N64-33250 24-15

INSTRUMENT CALIBRATION, DATA PROCESSING, AND PROGRAMMING FOR SATELLITE RADIATION MEASUREMENT
NASA-CR-59250 N64-33292 24-15

HIGH EXPLOSIVE DETONATION FOR CALIBRATION OF EARTHQUAKE AND AFTERSHOCK RECORDING INSTRUMENTS - SEISMOLOGY
AFCRL-64-659 N64-33308 24-12

ABNORMAL CHARACTERISTICS OF INTERFERENCE FILTERS FOR USE AS STANDARDS IN WAVELENGTH CALIBRATION OF SPECTROPHOTOMETERS
NAVWEPS-8550 N64-33753 24-15

CALORIMETER
CF HEAT
CALORIMETER FOR MEASURING TOTAL HEMISPHERICAL EMITTANCE IN LOW TEMPERATURE RANGE
N64-10951 02-18

MULTICHAMBER VACUUM CALORIMETER FOR MEASUREMENT OF HEMISPHERICAL EMITTANCE OF HIGH TEMPERATURE RADIATOR COATINGS
N64-10957 02-15

TWIN ISOTHERMAL RESISTANCE BRIDGE CALORIMETER DETERMINATIONS OF URANIUM-235 AND THERMAL NEUTRON FLUX
UCRL-7489 N64-11304 02-23

ISOTHERMAL HEAT FLOW CALORIMETER FOR LARGE VOLUME SAMPLES
UCRL-7490 N64-11474 03-15

TWIN-ROD CONDUCTION CALORIMETER FOR ROUTINE ASSAY OF SMALL RADIOACTIVE SOURCES
UCRL-7488 N64-11580 03-23

EMITTANCE OF CALORIMETER DISC SURFACES COATED WITH PLATINUM BLACK UNDER CONTROL TEMPERATURE CYCLING
NASA-CR-55073 N64-12156 03-13

ABSOLUTE THERMOCONDUCTIVITY MEASUREMENTS AT CRYOGENIC TEMPERATURES - CALORIMETER DESIGN, CONSTRUCTION, AND CALIBRATION
ASD-TDR-63-756 N64-12636 04-13

CYLINDRICAL CALORIMETER FOR MEASURING HEAT TRANSFER OF SILICON DIOXIDE WITH ALUMINUM POWDER THROUGH CRYOGENIC INSULATION
NASA-CR-55327 N64-14283 06-13

RADIOMETER AND SLUG-TYPE CALORIMETER IN SOLID PROPELLANT ROCKET MOTOR
ABL/Z-60 N64-17333 09-13

CONSTRUCTION AND OPERATION OF ISOTHERMAL SOLUTION CALORIMETER
LA-3031 N64-17754 09-15

PROTOTYPE PORTABLE MICROCALORIMETER FOR MEASUREMENT OF ABSORBED RADIATION DOSES
USNRDL-TR-710 N64-18189 10-15

DESIGN, CONSTRUCTION, AND TESTING OF CALORIMETER FOR DETERMINING HEATS OF VAPORIZATION
OI-360330-8 N64-21796 15-15

CALORIMETRIC PROBE WITH MAXIMUM INTERVAL OF LINEAR TEMPERATURE-TIME RESPONSE FOR HIGH HEATING RATE ENVIRONMENTS
NASA-RP-238 N64-25971 18-13

ERROR ANALYSIS FOR MICROCALORIMETER WITH CIRCULATING LIQUID
N64-29211 21-15

RADIATION HEAT METERS OF SLUG CALORIMETER TYPE FOR MEASURING INCIDENT RADIATION HEAT FLUX
TN-14-63-U29 N64-29237 21-15

ELECTRICAL HEATER ERROR IN ROCKING-BOMB SOLUTION CALORIMETERS
UCRL-7992 N64-31057 22-13

GRADIENT LAYER ANIMAL CALORIMETER FOR MONITORING RADIANT AND EVAPORATIVE COMPONENTS OF HEAT LOSS
SAM-TDR-64-53 N64-32574 23-15

CALORIMETRY
CF TEMPERATURE MEASUREMENT
CF THERMOMETRY
CHEMICAL METALLURGY, FUEL CYCLES, CALORIMETRY, REACTOR SAFETY, & ENERGY CONVERSION
ANL-6687 N64-10395 01-07

CALORIMETRIC DEVICE FOR DETERMINATION OF SOLAR ABSORPTION & INFRARED EMITTANCE RATIO OF MATERIALS AT ROOM TEMPERATURE
N64-10945 02-13

CALORIMETRIC TEMPERATURE MEASUREMENT OF BATHS FOR ELECTROSLAG WELDING
JRRS-22386 N64-11920 03-17

CALORIMETRIC DETERMINATION OF HEAT CAPACITIES OF URANIUM ISOTOPES AND THEIR ALLOYS WITH FISSIUM MIXTURE
ANL-6702 N64-12906 04-13

ANIMAL AND HUMAN CALORIMETRY, HUMAN RESPONSES TO COLD SKIN AND TO HIGH CORTICAL TEMPERATURE, HUMAN THERMOREGULATOR
ASAE PAPER 62-422 N64-13149 04-16

CALORIMETRIC METHOD OF MEASURING HEAT TRANSFER OVER OPEN SURFACE MATERIAL
N64-13579 05-13

ADHESIVES, ISOTOPE SEPARATION, PURIFICATION, PROPERTIES, AND VARIATION METHOD ANALYSIS OF CALORIMETRY DATA - REACTOR PHYSICS
MLM-1148 N64-14755 06-23

HEAT OF FORMATION OF MUSCOVITE, DETERMINED BY SOLUTION CALORIMETRY
BM-RI-6356 N64-14956 06-07

HEAT OF FORMATION OF LIGHT ELEMENT COMPOUNDS - MODIFICATIONS OF APPARATUS & METHOD, CALORIMETER CALIBRATION, AND DATA ON HYDRAZINE MONOBORANE
UACRL-B910078-2 N64-14965 06-07

SEPARATION AND PURIFICATION OF CARBON-13, RADIOACTIVE ELEMENTS STUDIES, AND CALORIMETRY
MLM-1152 N64-15854 07-23

CALORIMETRIC EFFICIENCY OF SPLIT-RIB UMBRELLA-TYPE PARABOLOIDAL SOLAR ENERGY CONCENTRATOR
NASA-TN-D-2015 N64-16116 08-06

HIGH TEMPERATURE CALORIMETRY - ENTHALPY OF SODIUM CHLORIDE AND ALUMINUM OXIDE
N64-16681 08-19

CONDUCTIVE ADHESIVES, RADIOACTIVE ISOTOPES AND ELEMENTS, ALPHA AND NEUTRON SOURCES, AND CALORIMETRY
MLM-1176 N64-18083 10-07

HEAT OF COMBUSTION DETERMINATIONS OF ORGANIC BORON COMPOUNDS BY ROTATING-BOMB CALORIMETRIC METHOD
N64-18817 11-13

CALORIMETRIC TEMPERATURE MEASUREMENT OF HEMISPHERICAL THERMAL EMISSION OF SPACECRAFT TEMPERATURE CONTROL SURFACES AT ROOM TEMPERATURE
NASA-CR-56037 N64-20604 13-13

CALORIMETRIC PROBE WITH MAXIMUM INTERVAL OF LINEAR TEMPERATURE-TIME RESPONSE FOR HIGH HEATING RATE ENVIRONMENTS
NASA-RP-238 N64-25971 18-13

HEATS OF FORMATION OF METALLIC BORIDES BY FLUORINE BOMB CALORIMETRY
NBS-8153 N64-26508 18-13

HEATS OF FORMATION OF ZIRCONIUM CARBIDE AND HAFNIUM CARBIDE MEASURED BY COMBUSTION CALORIMETRY
BM-RI-6518 N64-28133 20-07

AUTOMATIC THERMISTOR BRIDGE AND ERRORS OF MICROCALORIMETER WITH CIRCULATING LIQUID
JPRS-25358 N64-29209 21-15

CALORIMETRIC TESTING OF MIRROR FOR NICKEL ELECTROFORMED COLLECTOR TO PRODUCE SOLAR CONCENTRATORS
NASA-CR-103 N64-32688 23-17

CAMBERED WING
CAMBER FLUTTER CHARACTERISTICS OF MONOCOQUE AND MULTIWEB WINGS SUBJECTED TO SUPERSONIC FLOW
NASA-TR-R-150 N64-10468 01-03

CAVITATION FLOW PAST HYDROFOILS WITH LARGE CAMBER AT ARBITRARY ANGLES OF ATTACK
T.R. 17 N64-15944 07-03

AERODYNAMIC DESIGN OF WINGS WITH CAMBERED SPAN HAVING MINIMUM INDUCED DRAG
NASA-TR-R-152 N64-15974 07-03

AERODYNAMIC CHARACTERISTICS OF AIRCRAFT CONFIGURATIONS WITH HIGHLY SWEPT TWISTED AND CAMBERED ARROW WINGS AT HYPERSONIC SPEEDS

N64-20294 13-04

NUMERICAL METHOD FOR DESIGN OF CAMBER SURFACES OF SUPERSONIC WINGS WITH ARBITRARY PLANFORMS
NASA-TN-D-2341 N64-23034 16-03

AERODYNAMIC CHARACTERISTICS OF SLENDER CAMBERED GOTHIC WINGS AT TRANSONIC SPEEDS
ARC-R&M-3370 N64-28083 20-03

AERODYNAMIC CHARACTERISTICS OF SLENDER CAMBERED GOTHIC WINGS AT TRANSONIC SPEEDS
N64-29331 21-03

FLOW OF CONVECTED HEAT ON DELTA WINGS WITH LARGE CAMBER ANGLES N64-30671 22-11

CAMERA
SA BALLISTIC CAMERA
SA FRAMING CAMERA
SA HIGH SPEED CAMERA
SA SCHMIDT CAMERA
SA TELEVISION CAMERA
SYSTEM ANALYSIS OF METEOROLOGICAL SATELLITE WITH CAMERA FOR WEATHER DATA RECORDING
MSL-19 N64-11656 03-32

TIROS SATELLITE CAMERA TO GIVE INSTANTANEOUS PHOTOGRAPHS OF CLOUD PATTERNS N64-11778 03-32

PHOTOELECTRIC INFORMATION STORAGE - COMPONENTS FOR TAPE CAMERA STORAGE TUBE
RTD-TDR-63-4134 N64-12188 03-09

CAMERA WITH OPTICAL COMPENSATOR FOR OBSERVING ARTIFICIAL EARTH SATELLITES N64-13686 05-23

SECONDARY ELECTRON CONDUCTION TARGETS FOR CAMERA TUBES - FABRICATION, QUALITY CONTROL, & STABILITY
RTD-TDR-63-4276 N64-14961 06-23

REDUCTION AND CALIBRATION FOR PHOTOGRAMMETRIC CAMERAS
AFCRL-64-40 N64-16780 08-15

AUTOMATIC BALLOON-BORNE SELENODETIC PLATE CAMERA FOR HIGH RESOLUTION PHOTOGRAPHY OF MOON
AFCRL-64-201 N64-17652 09-15

OPTICAL ACCURACY OF K-17 AERIAL RECONNAISSANCE CAMERA
AD-434400 N64-18069 10-15

GEOCENTRIC POSITION AND/OR ORBITAL PARAMETERS WITH STAR-SATELLITE PHOTOGRAPHY FROM SINGLE CAMERA STATION
CR-102-1 N64-18270 10-29

BETATRON, CONVERTER CAMERA, LASER INTERFEROMETER, AND SHOCK TUBE FACILITY FOR PLASMA PARTICLE ACCELERATION STUDY
AFCRL-64-412 N64-21709 15-24

CIRCUMFERENTIAL VERTICAL PERSPECTIVE AERIAL CAMERA
FTD-TT-63-1004/1&2&4 N64-21963 15-15

PULSE OPERATED SHUTTER SYSTEM FOR AERIAL CAMERA WITH CELESTIAL ORIENTATION
BRL-MEMO-1533 N64-22081 15-15

SCINTILLATION CAMERA WITH LARGE SODIUM IODIDE CRYSTAL FOR OBSERVING POSITRONS AND GAMMA RADIATION EMITTED BY ISOTOPES N64-22858 16-16

CAMERA-OSCILLOSCOPE RECORDING EQUIPMENT FOR ATHENA PROGRAM RADAR
PA-3 N64-23279 16-15

FAST CAMERA WITH SPHERICAL OPTICS
FTD-MT-63-354 N64-23301 16-15

CAMERA WITH ENHANCED LIGHT GRASP FOR PRECISE SATELLITE RECORDING
RAE-TN-IR-30 N64-23376 16-31

DESCRIPTION OF MIR 35 MM CAMERA AND THREE TELEPHOTO LENSES
FTD-TT-63-1074/1 N64-24157 16-15

OBSERVATION INSTRUMENTS USED AS REAL TIME AND DAYLIGHT GEODETIC STELLAR CAMERAS
AFCRL-64-172 N64-24350 17-15

X-RAY FLUORESCENCE CAMERA
NRL-6061 N64-25621 17-15

HIGH RESOLUTION CAMERA TUBES USING VIDICON PHOTOCONDUCTIVE TARGETS
AL-TDR-64-171 N64-26172 18-08

HIGH PRECISION CAMERA FOR AERIAL PHOTOGRAPHY
FTD-MT-63-353 N64-26816 18-15

SPECTROGRAPHS, PHOTOMETERS, AND EVENT CAMERAS FOR SNAP REENTRY STUDIES
SC-RR-64-968 N64-27038 19-15

CAMERAS FOR MANNED SPACE FLIGHT AND LUNAR PHOTOGRAPHY
NASA-TM-X-51878 N64-27802 19-15

X-RAY FLUORESCENCE DATA OBTAINED THROUGH FIXED CRYSTAL EVACUATED CAMERA
NRL-6096 N64-27959 20-07

PINHOLE GAMMA RADIATION CAMERAS
NAA-SR-9924 N64-29771 21-15

ALL-SKY CAMERA FOR PHOTOGRAPHY OF AURORAE
N64-32720 24-12

CAMPHOR
PHYSICOCHEMICAL PROPERTIES OF CEREBRAL PROTEINS DURING EXCITATION OF NERVOUS ACTIVITY BY CAMPHOR
JPRS-24119 N64-18085 10-16

SPACECRAFT APPLICATIONS OF SUBLIMING MATERIALS - BIPHENYL, CAMPHOR, AND NAPHTHALENE
TG-593 N64-33016 24-25

CANADA
REENTRY PHYSICS RESEARCH BY CANADIAN GOVERNMENT
BSC-39259 N64-22904 16-30

CANADIAN SHIELD
S GEOLOGY

CANARD
TRANSONIC AERODYNAMIC CHARACTERISTICS OF CANARD AIRCRAFT
NASA-TN-D-2465 N64-28338 20-02

CANONICAL PROBLEM
TRANSFORMERLESS AND CANONICAL INDUCTANCE-CAPACITANCE, RESISTANCE-CAPACITANCE, AND RESISTANCE-INDUCTANCE LINEAR PASSIVE NETWORKS
AFCRL-63-506 N64-12288 03-09

CANONICAL TRANSFORMATIONS IN ANGULAR-MOMENTUM REPRESENTATION OF LOW ENERGY SPHERICAL NUCLEI - QUASI-PARTICLE INTERACTIONS
UCRL-11080 N64-14164 05-23

CONNECTION BETWEEN QUASI- AND REAL CANONICAL DIFFERENTIAL EQUATIONS
MRC-457 N64-20338 13-20

CANONICAL REPRESENTATIONS FOR NORMAL & UNIFORM CHAIN EVENTS
MRC-462 N64-22601 15-20

VON ZEIPEL METHOD AND CANONICAL VARIABLES USED IN SOLUTION OF DIFFERENTIAL EQUATIONS RELATED TO PERTURBATION THEORY
RM-4074-PR N64-22617 15-23

CANONICAL PROBLEMS AND VON ZEIPEL METHOD - THEORY AND APPLICATION
NASA-TM-X-55058 N64-28079 20-20

CANOPY
SUPERSONIC PARACHUTE USING SOLID CONE AND FLEXIBLE CANOPY
AGARD-445 N64-16298 08-04

CANTILEVER BEAM
EXAMINATION OF CONSTANT STRESS CANTILEVER TO LOCATE AREAS OF CONSTANT STRAIN FOR USE IN GAUGE

CALIBRATION
ARL/SM-281 N64-14445 06-33

CAPACITANCE
SA ELECTRIC PROPERTY
KILOCYCLE VALUE EXTRAPOLATION OF SECONDARY CAPACITANCE STANDARDS TO HIGHER FREQUENCIES
NBS-TN-201 N64-10410 01-09

PROBE-TYPE CAPACITANCE TEMPERATURE SENSOR FOR HIGH TEMPERATURE USE
GEMP-80 N64-11948 03-15

TRANSFORMERLESS AND CANONICAL INDUCTANCE-CAPACITANCE, RESISTANCE-CAPACITANCE, AND RESISTANCE-INDUCTANCE LINEAR PASSIVE NETWORKS
AFCRL-63-506 N64-12288 03-09

CAPACITANCE HIGH-VOLTAGE DIRECT CURRENT GENERATOR WITHOUT A COMMUTATOR
FTD-TT-61-539/1&2 N64-12368 03-09

CAPACITANCE DIRECT CURRENT GENERATOR
FTD-TT-61-540/1 N64-12668 04-06

ELECTRONIC FILTER WITH PARALLEL TUBE - DEPENDENCE OF COEFFICIENT OF FILTRATION ON GRID BIAS, CAPACITANCE, RESISTANCE, & VOLTAGE
N64-12737 04-09

FREQUENCY CHARACTERISTICS OF TWO COUPLED CIRCUITS WITH VARIABLE CAPACITANCE IN ONE CIRCUIT
N64-12738 04-09

DYNAMICS OF CIRCUIT WITH VARIABLE CAPACITANCE AT LOW REGENERATION LEVEL - EXACT & ASYMPTOTIC FORMULAS PRESENTED AS CURVES N64-12739 04-09

DISTRIBUTED RESISTANCE-CAPACITANCE NETWORKS WITH RATIONAL TRANSFER FUNCTIONS
R-164 N64-19396 12-09

REALIZATION OF TRANSFER FUNCTIONS OF RESISTANCE-CAPACITANCE TUNNEL DIODE NETWORKS
EE-574 N64-19871 12-09

CAPACITANCE-VOLTAGE BEHAVIOR OF ZINC-DIFFUSED GALLIUM ARSENIDE P-N JUNCTIONS
SSD-TDR-64-42 N64-22271 15-25

HARMONIC ACTION ON SYSTEM OF TWO CIRCUITS COUPLED BY NONLINEAR CAPACITANCE N64-23798 16-09

ALTERNATING CURRENT MEASUREMENT OF ELECTRODE DIFFERENTIAL CAPACITANCE AND RESISTANCE OF ELECTROCHEMICAL CELL FOR ELECTROLYSIS
T-1716 N64-24154 16-09

TUNABLE RESISTANCE-CAPACITANCE NULL NETWORKS
AD-406998 N64-27173 19-09

EFFICIENCY OF COAXIAL GUN PLASMA ENGINE SYSTEM FOR VARIOUS CAPACITANCES, VOLTAGES, GAS DENSITIES, AND GUN GEOMETRIES
AIAA PAPER-64-706 N64-28305 20-06

CAPACITANCE-PICKUP RECORDING METHOD FOR CONTRACTION OF SMOOTH MUSCLE
JRRS-26307 N64-28400 20-15

CAPACITANCE AND ELECTROLUMINESCENCE MEASUREMENTS FOR CADMIUM TELLURIDE P-N JUNCTION DIODES
N64-31645 23-25

CAPACITANCE TEMPERATURE SENSOR AND NUCLEAR SENSOR FOR REACTOR INSTRUMENTATION AND CONTROL
GEMP-84 N64-32937 24-15

HIGH JUNCTION CAPACITANCE AND LOW DIODE RESISTANCE REQUIREMENTS FOR PHASED ARRAY ANTENNA
FR-63-14-231 N64-33445 24-09

CAPACITOR
CF CONDENSER
BIBLIOGRAPHY - VACUUM-DEPOSITED THIN FILM CONDUCTORS, CAPACITORS, RESISTORS, & CONNECTORS
SB-63-15 N64-13075 04-09

QUANTITY PRODUCTION OF METALIZED-TEFLON CAPACITORS WITH SELF-REPAIRING CHARACTERISTICS FOR EXTREME-SERVICE APPLICATION
PB-181-537 N64-13319 04-09

SPARK GAP FOR CAPACITOR BANK SWITCHING
ARL-63-219 N64-14365 06-09

THIN ORGANIC ROLLED FILM CAPACITOR
AD-429916 N64-15705 07-09

CAPACITOR EQUIPMENT PERFORMANCE AND RELIABILITY STUDY FOR STATIC INVERTERS AND CONVERTERS
NASA-CR-55745 N64-15878 07-09

SOLID ELECTROLYTE TANTALUM FOIL CAPACITOR
AD-428360 N64-16512 08-09

MEASUREMENT OF TRANSIENT RADIATION EFFECTS ON CAPACITORS, RESISTORS, CONNECTORS, AND COAXIAL CABLES N64-19034 11-23

DIFFUSION FAILURE MODES IN STRESSED TANTALUM AND TANTALUM OXIDE THIN FILM CAPACITORS
N64-20973 14-25

FAILURE MECHANISMS AT INSULATOR-CONDUCTOR JUNCTION OF ANODIZED TANTALUM AND CERAMIC BARIUM TITANATE CAPACITORS N64-20976 14-09

GENERATED VOLTAGE FAILURE MODE IN CAPACITORS OF THIN FILM SANDWICH CONSTRUCTION
N64-20978 14-25

FAILURE MODES IN SOLID TANTALUM CAPACITORS
N64-20996 14-09

OPTIMUM PRODUCTION TECHNIQUES FOR NIOBIUM CAPACITORS
AD-433092 N64-21227 14-17

THIN ORGANIC ROLLED FILM CAPACITOR
AD-600317 N64-21296 14-09

HERMETICALLY SEALED TANTALUM FOIL ELECTROLYTIC CAPACITORS FOR OPERATION IN SPACE ENVIRONMENT
AD-430355 N64-21325 14-09

DIELECTRIC THIN FILM SILICON MONOXIDE CAPACITORS WITH INCREASED BREAKDOWN STRENGTH
AD-600316 N64-22505 15-19

METAL FORMING BY CAPACITOR BANK DISCHARGES - SWAGING AND ELECTROHYDRAULIC FORMING
RN-175 N64-23225 16-09

PROCESSING TECHNIQUES AND ELECTRICAL PROPERTIES OF LACQUER FILM CAPACITORS
QPR-20 N64-23371 16-09

PRODUCTION ENGINEERING MEASURE FOR NIOBIUM CAPACITORS
AD-436536 N64-24059 16-09

SOLID ELECTROLYTE TANTALUM CAPACITORS AND HEAT TREATMENT EFFECTS ON THIN OXIDE FILMS
QR-1 N64-24076 16-09

VAPORIZED TEFLON CAPACITORS - METALLIZED MYLAR COATED WITH THIN FILM TEFLON DIELECTRIC BY GLOW DISCHARGE
QR-5 N64-24979 17-09

PRODUCTION ENGINEERING MEASURE FOR IMPROVED RELIABILITY OF SOLID TANTALUM CAPACITORS
PR-2 N64-25497 17-09

ABSORPTION BANDS OF NITROGEN FLUORIDE PRODUCED BY FLASH PHOTOLYSIS OF NITROGEN DIFLUORIDE AND EMISSION BANDS OF NITROGEN FLUORIDE PRODUCED BY FAST CAPACITOR DISCHARGE
TM-1531 N64-25578 17-07

CAPACITORS FOR STATIC INVERTERS AND CONVERTERS
NASA-CR-54075 N64-25803 17-09

ELECTRONIC EQUIPMENT - PNEUMOAUTOMATIC RELAY, AMPLIFIER, RESISTANCE, AND CAPACITOR
JPRS-24950 N64-25854 18-17

MONTE CARLO CODE FOR DESCRIBING TIME-DEPENDENT PHOTON TRANSPORT IN RESISTORS & CAPACITORS UNDER TRANSIENT GAMMA RADIATION EFFECT
AFWL-TDR-64-37 N64-26208 18-23

AXIAL FLOW FROM END OF METALLIC CYLINDER BOUNDED BY INSULATING WALL UNDER CAPACITOR DISCHARGE CONDITIONS
SID-64-874 N64-26465 18-24

CAPACITOR ENERGY STORAGE, DYNAMIC PULSE SYSTEMS, AND ELECTROCHEMICAL PULSE SYSTEMS
IDA/HQ-63-1415 N64-27101 19-06

VOLTAGE, CAPACITANCE, DUTY, LIFESPAN, AND INDUCTANCE EFFECTS ON COST AND SIZE OF CAPACITORS FOR ENERGY STORAGE APPLICATIONS
N64-27102 19-06

CAPACITOR ENERGY STORAGE FACILITIES FOR HIGH ENERGY PULSE GENERATION N64-27103 19-06

DESIGN OF MULTIMEGAJOULE ENERGY STORAGE CAPACITOR BANKS N64-27105 19-06

EFFECT OF LIQUIDS WITH HIGH DIELECTRIC CONSTANT ON SIZE AND COST OF CAPACITOR BANK
N64-27106 19-06

OPERATION OF CAPACITOR TYPE MICROMETEOROID DETECTOR
NASA-CR-56316 N64-27388 19-15

PRODUCTION ENGINEERING MEASURE FOR IMPROVED RELIABILITY OF SOLID TANTALUM ELECTROLYTIC CAPACITORS
AD-425246 N64-27725 19-09

PRODUCTION ENGINEERING MEASURE FOR IMPROVED RELIABILITY OF SOLID TANTALUM ELECTROLYTIC CAPACITORS
QPR-3 N64-27726 19-17

PRODUCTION ENGINEERING MEASURE FOR MECHANIZATION OF HIGH-RELIABILITY CAPACITORS
QR-3 N64-27950 20-17

ANNEALING OF ETCHED TANTALUM FOIL AND OPTIMUM ELECTROLYTE COMPOSITION FOR SOLID ELECTROLYTE TANTALUM FOIL CAPACITOR
AD-603305 N64-28607 20-09

ELECTROLYTIC PREPARATION OF HIGH DIELECTRIC THIN FILMS FOR CAPACITIVE ELEMENTS IN INTEGRATED CIRCUITRY
NASA-CR-58503 N64-29186 21-07

COAXIAL PLASMA GUN WITH STORAGE CAPACITOR EXHIBITING PULSE LINE BEHAVIOR FOR SPACE PROPULSION
NASA-CR-54149 N64-29222 21-27

PRODUCTION ENGINEERING MEASURE FOR IMPROVED RELIABILITY OF SOLID ELECTROLYTE TANTALUM CAPACITORS
QR-2 N64-29345 21-17

PRODUCTION ENGINEERING MEASURE FOR IMPROVED RELIABILITY OF SOLID TANTALUM ELECTROLYTIC CAPACITORS - YIELD, D-C LEAKAGE, AND FAILURE RATES
QPR-4 N64-29845 21-17

POLYCARBONATE LACQUER FILM CAPACITORS
QPR-21 N64-29948 21-17

IMPROVED RELIABILITY OF SOLID TANTALUM ELECTROLYTE CAPACITORS
QR-3 N64-30793 22-17

PLASTIC COATED ROLLED ALUMINUM FOIL CAPACITOR
QPR-4 N64-32374 23-17

RELIABILITY ESTIMATE OF CERAMIC TUBULAR CAPACITORS
N64-32915 24-09

CAPE KENNEDY
PRELAUNCH TESTING AND TEST FACILITIES AT CAPE CANAVERAL FOR LAUNCHING OF TELSTAR SATELLITE
N64-10893 02-31

WIND DIRECTION COMPONENT PROFILES FOR CAPE KENNEDY
NASA-TN-X-53009 N64-20581 13-21

SURFACE WIND SPEED, TOTAL OPAQUE CLOUD COVER, AND MAXIMUM WIND SPEED ALOFT AT CAPE KENNEDY, FLORIDA
NASA-TN-X-53037 N64-23999 16-12

URBAN GROWTH RELATED TO CAPE KENNEDY - SOCIOLOGY
NASA-CR-56204 N64-27391 19-10

REFERENCE ATMOSPHERE FOR CAPE KENNEDY BASED ON STATISTICAL PARAMETERS OF PRESSURE-HEIGHT, TEMPERATURE, AND RELATIVE HUMIDITY AT CONSTANT PRESSURE LEVELS
NASA-TM-X-53139 N64-33569 24-21

CAPILLARY
CF CARDIOVASCULAR SYSTEM
TRANSPORT OF CHEMICALLY REACTING MOLECULES IN CAPILLARIES OF CIRCULATORY SYSTEM
NASA-TN-D-2063 N64-11556 03-07

CAPILLARY EMITTER THERMIONIC CONVERTER
ASD-TDR-63-865 N64-13766 05-06

OXYGEN TENSION DETERMINATION - OXYGEN DIFFUSION IN GREY MATTER OF BRAIN AT CAPILLARY LEVEL
N64-14583 06-16

HYDROGEN-OXYGEN CAPILLARY-TYPE FUEL CELL
AD-404661 N64-17305 09-06

DETERMINATION OF TEMPERATURE OF PULMONARY CAPILLARY BLOOD N64-17932 10-16

REFRASIL FIBERGLASS BATT LIQUID LOCK MATERIAL AND CAPILLARY TUBE CONFIGURATIONS FOR ZERO GRAVITY WATER SEPARATOR SYSTEMS
NA-63-1097 N64-19303 12-06

STATIC MOISTURE REMOVAL SYSTEM FOR CAPILLARY MEMBRANE HYDROGEN-OXYGEN FUEL CELL
NASA-CR-58852 N64-33209 24-06

TWO-PHASE FLOW IN HORIZONTAL CAPILLARY TUBES
TR-8581-24 N64-33980 24-11

CAPSULE
DETERMINATION OF BLOOD FLOW THROUGH INTACT VESSELS UNDER CONDITIONS OF GRAVITATIONAL STRESS AND IN EXTRATERRESTRIAL SPACE CAPSULES
NASA-CR-53302 N64-17766 09-16

VALIDITY & HAZARDS OF EXTRAPOLATING THRESHOLD LIMIT VALUES OF INDUSTRIAL ATMOSPHERES TO CONTINUOUS EXPOSURE - SPACE CAPSULE CONDITIONS
N64-24614 17-16

CAPTURE EFFECT
CONSTRUCTION OF EXAMPLES FOR MOTIONS IN THREE-BODY PROBLEMS WITH CAPTURE
MH-TRANS-411 N64-14906 06-23

MONTE CARLO PROGRAM FOR ESTIMATING EPITHERMAL CAPTURE RATES IN SLABS
WAPD-TM-407 N64-15178 07-23

CAPTURE EFFECT GLIDE SLOPE MONITOR TECHNIQUES FOR GUIDING AIRCRAFT TO RUNWAY
RD-64-17 N64-19167 11-10

CAPTURE COEFFICIENT OF LIQUID HELIUM AND LIQUID NEON COOLED CRYOPLATE IN SUPERSONIC LOW DENSITY AIR STREAM
AEDC-TDR-64-124 N64-22386 15-11

GAS AND CRYOSURFACE TEMPERATURE EFFECT ON CAPTURE COEFFICIENT OF SIX GASES
AEDC-TDR-64-84 N64-24178 16-13

CARBIDE
SA BORON CARBIDE
SA HAFNIUM CARBIDE
SA SILICON CARBIDE
SA TANTALUM CARBIDE
SA TITANIUM CARBIDE
SA ZIRCONIUM CARBIDE
CF REFRACTORY MATERIAL
CF STEEL

RADIOACTIVE CARBON DETERMINATION OF TEMPERATURE OF METAL OXIDES AND HEAT RESISTANCE OF METAL CARBIDE BASE ALLOYS
JPRS-18731 N64-10579 01-18

PHYSICAL AND MECHANICAL PROPERTIES STUDIED IN PREPARING NONSTOICHIOMETRIC METAL CARBIDES - TITANIUM CARBIDE
NASA-CR-52420 N64-10612 01-18

COBALT BONDED CARBIDES OF TUNGSTEN, TITANIUM, AND TANTALUM - STRUCTURE AND PROPERTIES
JPRS-18637 N64-10642 01-18

X RAY SPECTROSCOPY OF L BANDS OF NIOBIUM NITRIDE, NIOBIUM CARBIDE, NIOBIUM DIBORIDE
N64-10671 02-18

REPROCESSING OF URANIUM CARBIDE BY NITRIDE-CARBIDE CYCLE
NAA-SR-8388 N64-11322 02-07

HEATS OF COMBUSTION & FORMATION OF CARBIDES OF TUNGSTEN & MOLYBDENUM
BM-RI-6337 N64-12120 03-26

CARBIDE HARD ALLOYS - COMPOSITION, STRUCTURE, AND TECHNOLOGICAL METHODS OF PRODUCTION - REFRACTORY POWDER METALLURGY
JPRS-22600 N64-12902 04-19

CLAD CARBIDE EMITTER THERMIONIC POWER MODULE FOR SIMULATING NUCLEAR REACTOR INSTALLATION, DESIGN, & PERFORMANCE
AI-9050 N64-13237 04-06

BIBLIOGRAPHY - PREPARATION & PROPERTIES OF PLUTONIUM CARBIDE
MLM-1169 N64-13390 04-19

MOLTEN NICKEL WETTABILITY OF PRESSED POWDERED CARBIDE ALLOYS - NIOBIUM & VANADIUM CARBIDES, AND NIOBIUM & TITANIUM CARBIDES
N64-13699 05-19

MOLTEN NICKEL WETTABILITY OF PRESSED POWDERED CARBIDE ALLOYS - NIOBIUM & VANADIUM CARBIDES, AND NIOBIUM & TITANIUM CARBIDES
N64-13699 05-19

HIGH TEMPERATURE THERMAL EXPANSION OF HAFNIUM CARBIDE, NIOBIUM CARBIDE AND TANTALUM CARBIDE
C-18 N64-14017 05-19

CARBIDES - FORMULAS, COMPOSITION RANGES, CRYSTAL STRUCTURE, & PREPARATION DATA
IS-722 N64-14243 06-19

THERMAL EXPANSION MEASUREMENT OF PURE SINTERED CARBIDE SPECIMENS
NASA-CR-55272 N64-14271 06-23

COMPOSITE, HARD-GRAIN, DUCTILE MATRIX BODIES OF HIGH COMPRESSIVE STRENGTH PRODUCED BY ISOSTATIC PRESSING AND FIRING - OXIDES AND CARBIDES
Y-1450 N64-16314 08-19

THERMODYNAMICS OF INTERSTITIAL SOLID SOLUTIONS AND REFRACTIVE COMPOUNDS - CARBIDES, OXIDES, AND NITRATES
ASD-TR-61-445, PT. 3 N64-16801 08-25

STRUCTURE AND PROPERTIES OF CARBIDIZED CHROMIUM PLATING IN ATMOSPHERE CONTAINING NITROGEN
N64-17071 09-18

MACHINABILITY OF HEAT RESISTANT STEELS & ALLOYS IN TURNING, MILLING, AND DRILLING WITH CARBIDE-TIPPED CUTTING TOOLS N64-17096 09-17

THERMODYNAMIC PROPERTIES OF VARIOUS OXIDES AND CARBIDE VAPORIZATION N64-18806 11-13

ELECTRICAL PROPERTIES OF TRANSITION METAL CARBIDES AND NITRIDES
C-21 N64-19548 12-25

THERMODYNAMIC PROPERTIES OF NIOBIUM CARBIDE
BM-RI-6446 N64-20516 13-13

RELATION BETWEEN SOLUBILITY OF CARBON IN FERRITE AND TYPE OF CARBIDES FORMED ON TEMPERING
FTD-TT-63-349/1&2&4 N64-22186 15-18

SINTERING PROCESS MECHANISMS, STRUCTURE, AND MECHANICAL PROPERTIES OF TUNGSTEN AND TITANIUM CARBIDES
AROD-2262-6 N64-22333 15-19

METALLURGICAL STUDY OF TUNGSTEN CARBIDE-COBALT AND NICKEL-ALUMINUM ALLOYS
FTD-MT-63-199 N64-24246 17-18

FATIGUE AND STATIC STRENGTH OF TUNGSTEN CARBIDE-COBALT ALLOYS RELATED TO GRAIN SIZES
N64-24247 17-18

PROPERTIES OF NONSTOICHIOMETRIC METALLIC CARBIDES
NASA-CR-58046 N64-27289 19-18

PHASES AND TWINNING IN TERNARY ALUMINUM BOROCARBIDE CRYSTALS
TR-2 N64-29241 21-25

URANIUM AND ZIRCONIUM CARBIDES AS CATHODES FOR THERMIONIC SPACE REACTORS
NASA-CR-56280 N64-29371 21-19

CHEMICAL PROPERTIES AND QUALITATIVE ANALYSIS OF CARBIDES, BORIDES, AND NITRIDES
FTD-TT-63-814/1&2 N64-30689 22-07

PREPARATION AND PROPERTIES OF HIGH-MELTING CARBIDE ALLOYS
NASA-TT-F-9064 N64-31337 22-18

ELECTRICAL AND MECHANICAL PROPERTIES OF REFRACTORY METAL CARBIDES - CARBIDES OF TITANIUM, NIOBIUM, AND ZIRCONIUM
PR-2 N64-32517 23-25

SYNTHESIS AND PHYSICAL-CHEMICAL PROPERTIES OF RARE EARTH CARBIDES, NITRIDES, AND SILICIDES
JPRS-26877 N64-32884 24-07

THERMODYNAMIC PROPERTIES OF HIGH PURITY THORIUM DICARBIDE
UCRL-12003 N64-33851 24-07

RHENIUM DETERMINATION IN RHENIUM-URANIUM-ZIRCONIUM CARBIDE USING X-RAY ABSORPTION EDGE METHOD
LA-3135 N64-33879 24-07

CARBOHYDRATE
SA GLUCOSE
SA GLYCOGEN
SA NUCLEOSIDE
SA POLYSACCHARIDE
REGENERATION OF CARBOHYDRATES IN CLOSED CIRCUIT RESPIRATORY SYSTEM
NASA-CR-52972 N64-11801 03-16

MEASUREMENT OF GAMMA RADIATION DOSE FROM CHANGE IN OPTICAL ACTIVITY OF IRRADIATED CARBOHYDRATES
FTD-TT-63-317/1&2&4 N64-23096 16-07

CARBOHYDRATES, PROTEINS, AND LIPID CHEMISTRY OF BLUE-GREEN ALGAE
FTD-TT-63-193/1 N64-23296 16-16

PHYSICOCHEMICAL SYNTHESIS OF CARBOHYDRATES IN SPACESHIP CABIN N64-23774 16-16

CARBON
SA CHARCOAL
SA FLUOROCARBON
SA GRAPHITE
SA HYDROCARBON
CF FERRITE
CF FUEL
HELIUM-3 NEUTRON GROUND STATE REACTION ON CARBON-12 AND 13 INCLUDING ANGULAR DISTRIBUTIONS AND EXCITATION CURVES
URPA-7 N64-10192 01-23

ELECTROLYTE PULSING USING CARBON ELECTRODE FOR IMPROVED FUEL CELL OPERATION
NASA-CR-52490 N64-10442 01-08

EXAMINATION OF CODIFFUSION OF TWO CHEMICALLY ACTIVE GASES INTO HARD METAL NITROGEN-CARBON-CHROMIUM SYSTEM
N64-10674 02-18

ANNIHILATION OF VACANCIES DURING CREEP WITH REPLACEMENT BY NITROGEN, BORON, OR CARBON AS A FACTOR IN INCREASED HEAT-RESISTANCE IN STEEL
N64-10792 02-18

AUSTENITIC STEEL TRANSFORMATION IN MIDDLE REGION - DIFFUSION REDISTRIBUTION OF CARBON
N64-11148 02-18

ELECTRODES FROM CARBON AND POROUS NICKEL FOR THIN FUEL CELLS
AD-425031 N64-12058 03-06

ABSORPTION OF NITROGEN, HYDROGEN, AND CARBON GASES BY NIOBIUM TANTALUM
FTD-TT-62-1764/1&2 N64-12313 03-23

INELASTIC SCATTERING OF HIGH ENERGY ELECTRONS FROM CARBON, OXYGEN, AND CALCIUM
AD-424383 N64-12924 04-23

ALPHA PARTICLE ENERGY SPECTRA FROM DEUTERON-ALPHA REACTIONS ON LITHIUM, BERYLLIUM, CARBON, NITROGEN, & OXYGEN USING 24-MEV DEUTERONS
UCRL-10993 N64-13217 04-23

COLOR REMOVAL FROM SURFACE WATER BY CARBON FILTER AS CHLORINATION SUBSTITUTE
AAL-TDR-62-37 N64-13644 05-07

IODIDE REFINING OF ZIRCONIUM AND ZIRCONIUM IODIDE FOR REDUCTION OF NONMETALLIC IMPURITIES - CARBON, OXYGEN, NITROGEN, AND HYDROGEN N64-13727 05-17

CARBON RESISTORS FOR CRYOGENIC LIQUID-LEVEL MEASUREMENT
NASA-CR-55333 N64-14272 06-15

VARIATION IN TENSILE STRENGTH, BENDING, COLOR, AND DIAMAGNETIC PROPERTIES OF TANTALUM CARBIDE WITH CARBON CONTENT
NASA-RP-122 N64-14746 06-19

ELASTIC AND THERMAL PROPERTIES OF CARBON COMPOUNDS
NADC-TR-58-360, PT. 5 N64-15068 07-19

PHOTOMICROGRAPHIC EXAMINATION OF CARBON & GRAPHITE MICROSTRUCTURES
WADD-TR-61-72, VOL. 22 N64-15069 07-19

FRICTION OF METALS, LUBRICATING COATINGS, AND CARBONS IN LIQUID NITROGEN AND HYDROGEN
N64-15236 07-17

SPECTRAL REFLECTANCE AND EMISSIVITY OF CARBON AND GRAPHITE MATERIALS MEASURED BY CARBON ARC IMAGE FURNACE
WADD-TR-61-72, VOL. 21 N64-15578 07-19

OPTIMUM CARBON BLACK FOR DEPOLARIZER BATTERIES
AD-430442 N64-15940 07-06

BORON-11 TO CARBON-12 TRANSMUTATION REACTION UNDER PROTON IRRADIATION
KFKI-14/1963/ N64-15987 07-23

ROLE OF BACTERIA IN CONVERSION OF PETROLEUM CARBON AND ASPHALT COMPONENTS UNDER ANAEROBIC CONDITIONS
FTD-TT-62-1449/1&2&4 N64-16396 08-16

COMBUSTION-GRAVIMETRIC METHOD FOR MEASUREMENT OF TRACE AMOUNTS OF CARBON IN SODIUM METAL
LA-3035 N64-16934 09-07

MONTE CARLO ANALYSIS OF NEUTRON SCATTERING FROM SMALL VOLUME OF CARBON, BERYLLIUM, ALUMINUM, IRON, AND POLYETHYLENE
NAA-SR-9418 N64-17290 09-23

OXYGEN ELECTRODE REACTION ON ELECTRODES OF CATALYZED AND NONCATALYZED CARBON AND METALS IN ACID ELECTROLYTE N64-17394 09-06

CARBON BLACKS FOR ORGANIC DEPOLARIZED BATTERIES
N64-17427 09-06

HIGH VACUUM LUBRICATION OF SOLID CARBON MATERIALS
NASA-RP-146 N64-17565 09-17

SIMULATION WITH CARBON PARTICLES OF BACTERIAL INVASION OF HUMAN GINGIVAL TISSUES - PHYSIOLOGY
SAM-TDR-64-4 N64-17963 10-16

ATTEMPT TO IMPROVE FLUORINE GENERATING ELECTRIC CELL LIFE BY USING CARBON TO CARBON ANODE CONNECTIONS
KY-452 N64-19074 11-17

EFFECT OF CARBON CONTENT ON DIFFUSION OF HYDROGEN IN CARBON STEELS
JPRS-24383 N64-19238 11-18

EFFECT OF CARBON CONTENT ON DIFFUSION OF HYDROGEN IN CARBON STEELS
JPRS-24383 N64-19238 11-18

NUCLEAR REACTION CROSS SECTIONS OF ISOTOPES OF ALUMINUM, SODIUM, AND CARBON
CERN-64-17 N64-19476 12-23

VARIATION OF DIFFUSION CONSTANT OF CARBON IN AUSTENITE N64-19880 12-18

SOLID STATE MASS SPECTROMETRY - MOLECULAR CARBON STUDIES
RTD-TDR-63-4145 N64-20397 13-25

CARBON IMPURITY EFFECTS ON LIQUID METAL CORROSION PROCESSES N64-20791 14-07

STEP-FUNCTION RESPONSE OF CARBON HUMIDITY ELEMENT
USAELRDL-TR-2379 N64-20849 14-15

EVOLUTION WITH NEUTRINO LOSS OF MASSIVE STAR UNTIL ONSET OF CARBON BURNING
NASA-RP-189 N64-22090 15-29

RELATION BETWEEN SOLUBILITY OF CARBON IN FERRITE AND TYPE OF CARBIDES FORMED ON TEMPERING
FTD-TT-63-349/1&2&4 N64-22186 15-18

STRESS AND STRAIN ANALYSIS OF SPHERICAL PYROLYTIC CARBON SHELLS
ORNL-3553 N64-22242 15-17

PETROLEUM EXTRACTS FOR THERMAL CRACKING OR PYROLYSIS, AND CARBON BLACK PRODUCTION
FTD-TT-63-1152/1 N64-22664 15-07

FIBROUS CARBON & GRAPHITE AS INSULATORS
FTD-TT-63-330/1&2&4 N64-23300 16-19

DEPOSITION OF PYROLYTIC CARBON COATING ON YARN FILAMENT TO INCREASE STRENGTH
AD-437595 N64-24174 16-18

ACTIVATED CARBON SAMPLING OF ORGANIC CONTAMINANTS IN NUCLEAR SUBMARINE ATMOSPHERE
N64-24623 17-15

YIELD OF ELASTICALLY SCATTERED NEUTRONS FROM NUCLEAR REACTION CARBON 12 /N,N/ CARBON 12
ORNL-3615 N64-25547 17-23

CONDUCTIVITY METHOD OF QUANTITATIVE ANALYSIS FOR CARBON TRACES IN TUNGSTEN
NASA-RP-232 N64-25858 18-07

USE OF INTENSITY RATIO OF COHERENT TO INCOHERENT SCATTERING OF X-RAYS FOR DETERMINATION OF CARBON TO HYDROGEN RATIO IN ORGANIC COMPOUNDS
EUR-488.F N64-26100 18-07

CARBON CONTENT EFFECT ON MAGNETIC PERMEABILITY OF IRON-ALUMINUM ALLOYS AND HEAT TREATMENT EFFECTS ON MAGNETIC PROPERTIES OF ALLOYS
FTD-TT-63-2/1&2&4 N64-26723 18-18

AUTOMATIC COMPUTER CONTROL SYSTEM FOR STOPPING A MELT AT GIVEN CARBON CONTENT IN BESSEMER CONVERSION OF FERROUS METALS TO STEEL
JPRS-25762 N64-26748 18-17

AUTOMATIC COMPUTER CONTROL SYSTEM FOR STOPPING A MELT AT GIVEN CARBON CONTENT IN BESSEMER CONVERSION OF FERROUS METALS TO STEEL
JPRS-25762 N64-26748 18-17

CARBON-CLOTH AND PHENOL-RESIN ENTRANCE CAP
N64-27034 19-19

POLARIZATION OF NEUTRONS FROM CARBON AND NITROGEN CHEMICAL REACTION
UCRL-7676 N64-27043 19-23

IMPROVEMENT IN ELECTRONIC WAVE FUNCTION FOR DIATOMIC CARBON BY CONFIGURATION INTERACTION
N64-27296 19-23

FABRICATION AND PHYSICAL PROPERTIES OF CARBONIZED AND GRAPHITIZED CLOTH COMPOSITES
WADD-TR-61-72, VOL. IX N64-27334 19-19

CONFIGURATION INTERACTION IN CARBON ATOM - ONE-ELECTRON WAVE FUNCTIONS COMPUTED BY METHOD OF SELF-CONSISTENT FIELD WITHOUT EXCHANGE
T-R-404 N64-27798 19-23

EFFECT OF INCREASED CARBON AND ALLOY CONTENT ON HYDROGEN COLD CRACKING OF WELDED WROUGHT STEEL
C59/16/64 N64-28143 20-18

PARAMETERS AND STRUCTURES OF CARBON-OXYGEN BONDS
AFCRL-64-508 N64-28609 20-07

CONSTITUTION OF SYSTEMS OF URANIUM AND CARBON WITH MOLYBDENUM, NIOBIUM, RHENIUM, TUNGSTEN, AND YTTRIUM
BMI-1685 N64-28785 20-18

CARBON AS TRACER FOR THERMAL DEGRADATION STUDIES OF POLYURETHANS
NASA-CR-58348 N64-28968 20-07

DIFFUSION OF CARBON IN ALPHA IRON
WVT-RR-6402 N64-28979 20-25

IGNITION AND COMBUSTION PROPERTIES OF ACTIVATED CARBON CONTAINING ADSORBED HYDROCARBONS FOR SUBMARINE AIR FILTERS
NRL-6090 N64-29955 21-26

NONDESTRUCTIVE TEST OF CARBON BEDS FOR REACTOR CONTAINMENT
DP-910 N64-30303 22-10

DEFORMATION AND RESISTIVITY OF IRON AND IRON-CARBON ALLOYS
PR-14 N64-30475 22-18

CARBON PRODUCTION FOR ORGANIC DEPOLARIZER PRIMARY CELL BATTERIES
REPT.-3 N64-30579 22-19

OXIDATION REACTIONS OF CARBON MONOXIDE IN PRESENCE OF CARBON AND OXYGEN
GDA-DBE-64-001 N64-30766 22-07

CASTABLE CARBON ROCKET NOZZLE - SUBSCALE FABRICATION
RPL-TDR-64-130 N64-31077 22-17

EFFECTS OF VARIATIONS IN CARBON CONTENT AND ALLOYING ELEMENT CONTENT ON MECHANICAL PROPERTIES OF STEELS CONTAINING NICKEL, CHROMIUM, AND MOLYBDENUM
S-11211 N64-32055 23-18

THEORETICAL DETERMINATION OF ISOTOPE SHIFT IN CARBON ATOM SPECTRUM
TR-406 N64-32274 23-23

HIGH PRESSURE RESEARCH ON ORGANIC FLUOROCARBON AND INORGANIC SYNTHESIS IN BORON-PHOSPHORUS-NITROGEN-CARBON SYSTEM
AROD-3177-3 N64-32369 23-07

QUANTITATIVE DETERMINATIONS OF VERY LOW CARBON CONCENTRATIONS IN TUNGSTEN BY COMBUSTION-CONDUCTOMETRIC METHOD
NASA-TN-D-2153 N64-32427 23-18

ISOTOPE ABUNDANCE RATIO OF CARBON 13-CARBON 12 IN STARS
NASA-CR-59217 N64-33125 24-05

LABORATORY APPARATUS TO STUDY REDUCTION OF IGNEOUS ROCK WITH CARBON, HYDROGEN, AND METHANE - UTILIZATION OF LUNAR RESOURCES
NASA-CR-59197 N64-33161 24-07

HIGH FREQUENCY INTERNAL FRICTION MEASUREMENTS OF HYDROGEN AND CARBON MOVEMENTS IN STEEL
D6-9586TN N64-33442 24-10

CARBON TRANSPORT FROM HOT REACTOR CORE
EUR-516.E N64-33497 24-23

ANALYTICAL METHODS FOR OXYGEN, NITROGEN, AND CARBON IMPURITIES IN CESIUM METAL - NEUTRON ACTIVATION, GAS CHROMATOGRAPHY, PHOTOMETRY, AND INFRARED ANALYZER TECHNIQUES
ML-TDR-64-199 N64-33912 24-07

CARBON ION MOBILITY CHANGE IN TITANIUM, TANTALUM, & TUNGSTEN
NASA-TT-F-263 N64-34021 24-10

CARBON ARC
CARBON ARC SOURCE FOR SOLAR SIMULATOR
AEDC-TDR-64-13 N64-14369 06-10

OPEN, METAL-CORED, CARBON ARC, PLASMA GENERATOR
N64-18072 10-24

RADIATION CHARACTERISTICS OF HIGH POWER LEVEL CARBON ARC FOR SOLAR SIMULATOR APPLICATION
AEDC-TDR-64-202 N64-33355 24-10

CARBON COMPOUND
SA BICARBONATE
MASS SPECTROMETRIC STUDIES OF BORON-CARBON-SILICON SYSTEMS, AND REDETERMINATION OF ATOMIZATION ENERGY OF THESE MOLECULES
WADD-TR-60-782, PT. 13 N64-11172 02-10

SURFACE PROPERTIES OF IRON-CARBON ALLOYS
NASA-TT-F-149 N64-11562 03-10

PLUTONIUM-URANIUM-CARBON SYSTEMS AS POSSIBLE FUELS FOR LIQUID-METAL COOLED FAST REACTORS
ANL-6678 N64-12355 03-19

SYNTHESIS OF ORGANOSILICON COMPOUNDS WITH SILOXANE CARBON UNITS - PHYSICOCHEMICAL PROPERTIES
N64-12487 04-07

SYNTHESIS OF ORGANOSILICON COMPOUNDS WITH SILAZANE-CARBON AND SILTHIANE-CARBON LINKS - PHYSICOCHEMICAL PROPERTIES N64-12488 04-07

EXTRACTION OF HYDROGEN PERCHLORATE AND NITRIC ACID INTO TRIOCTYLPHOSPHINE OXIDE FROM CARBON TETRACHLORIDE AND NITROBENZENE SOLUTIONS
UCRL-10971 N64-15243 07-07

LOSS OF MASS EXPLAINED IN TERMS OF OXIDATION RATES OF CARBONACEOUS MATERIALS FROM PLASMA ARC TESTS
NASA-CR-55837 N64-16713 08-19

CHANGES IN CONCENTRATION OF CARBON-14 LABELED COMPOUNDS IN PHOTOSYNTHESIZING CHLORELLA DUE TO ADDITION OF IODOACETIC ACID N64-19468 12-07

RADIO-RELEASE REACTION OF WATER VAPOR WITH RADIOACTIVE CALCIUM CARBIDE FOR MEASURING SMALL AMOUNT OF WATER VAPOR IN UPPER ATMOSPHERE
ORO-591 N64-19923 12-07

ALKALINE LEACHING PROCESS FOR RECOVERING URANIUM FROM CALCAREOUS CARNOTITE ORE
BM-RI-6409 N64-19996 12-17

ION MICROSCOPY - PRECIPITATIONS IN CARBON-DOPED TUNGSTEN AND DAMAGE TO NEUTRON-IRRADIATED PLATINUM
NASA-CR-56015 N64-20639 13-15

CARBON BLACK FOR ORGANIC DEPOLARIZER BATTERIES
AD-600250 N64-21323 14-06

SYNTHESIS AND REACTIONS OF SILYL NEOCARBORANES

TR-22 N64-23245 16-07

PHASE DIAGRAM OF URANIUM-PLUTONIUM AT TEMPERATURES BELOW 638-DEG C WITH LESS THAN 50 ATOMIC PERCENT CARBON
ANL-6435 N64-28110 20-18

SYNTHESIS OF COMPLEXES OF QUATERNARY ARSENIC ATOMS LINKED TO SAME CARBON ATOM
TR-1 N64-28665 20-07

REACTION OF PRIMARY, SECONDARY, AND TERTIARY AMINES WITH CARBOXYLIC ACIDS IN BENZENE
ARDD-3165-1 N64-29923 21-07

CARBON DIOXIDE
DISSOCIATION RATE OF CARBON DIOXIDE DILUTED WITH ARGON - SHOCK TUBE DETERMINATIONS
NASA-RP-51 N64-10290 01-11

CONVECTIVE HEATING IN NITROGEN AND CARBON DIOXIDE PLANETARY ATMOSPHERES
RAD-TM-63-72 N64-10315 01-13

INSTRUMENT FOR MEASURING LOW CONCENTRATIONS OF HYDROCARBONS AND CARBON DIOXIDE IN GASES
WRE-TN-CPD-63 N64-10411 01-15

PLASMA CHANGES DUE TO CHANGES IN CONCENTRATION OF CHLORIDE AND CARBON DIOXIDE BY THERMAL DEHYDRATION N64-10783 02-16

SEEDING OF SUPERCOOLED CLOUDS AND FOG OVER LARGE AREAS USING SOLID CARBON DIOXIDE N64-11167 02-21

DISSIPATION OF FOG FROM GROUND USING SOLID CARBON DIOXIDE N64-11168 02-21

ELECTROLYTIC PRODUCTION OF OXYGEN & REDUCTION OF CARBON DIOXIDE FROM AQUEOUS SOLUTIONS OF FORMIC ACID
NASA-CR-52878 N64-11325 02-06

CARBON DIOXIDE ABSORPTION BY WATER IN VENTURI GAS-LIQUID CONTACTOR - MASS TRANSFER N64-11653 03-11

HYGROSCOPIC SALTS IN ANTIHAIL ROCKETS FOR STABILIZING FOG - SOLID CARBON DIOXIDE & SILVER IODIDE N64-11838 03-21

RATIO OF PURIFYING CIRCULATION FLOW TO BREATHING FLOW FOR MAINTAINING ACCEPTABLE CARBON DIOXIDE CONCENTRATION IN SPACE CABIN ATMOSPHERE
RAE-TN-ME-273 N64-13337 04-16

EFFECT OF CARBON DIOXIDE AND ION SHIFTS ON CENTRAL NERVOUS SYSTEM N64-14591 06-16

RADIATION BANDS FROM CARBON DIOXIDE AND WATER - EARTH INFRARED HORIZON SCANNER ON SPACE VEHICLE AND SATELLITE ORIENTATION SYSTEM N64-14999 06-12

GAS & CRYOSURFACE TEMPERATURE EFFECTS ON CAPTURE COEFFICIENTS IN CARBON DIOXIDE
AEDC-TDR-63-251 N64-15066 07-23

CHEMICAL RELAXATION BEHIND NORMAL SHOCK WAVES IN CARBON DIOXIDE INCLUDING INTERDEPENDENT DISSOCIATION AND IONIZATION PROCESSES
NASA-TN-D-2131 N64-15221 07-07

FREEZING OUT MOISTURE AND CARBON DIOXIDE IN TUBULAR HEAT EXCHANGERS
FTD-TT-63-320/1&2&4 N64-16365 08-13

TURBULENT MIXING PROCESS BETWEEN CARBON DIOXIDE AND HYDROGEN CENTRAL JETS EXHAUSTING INTO MOVING CONCENTRIC AIRSTREAM
PIBAL-789 N64-16657 08-11

AERODYNAMIC CHARACTERISTICS OF TWO PLANETARY ENTRY CONFIGURATIONS IN AIR & CARBON DIOXIDE/NITROGEN MIXTURES AT HYPERSONIC SPEED
NASA-CR-53232 N64-17575 09-02

DEPENDENCE OF INFRARED ABSORPTANCE ON PARTIAL PRESSURE FOR CARBON DIOXIDE & WATER - COMBUSTION GAS ANALYSIS FOR PROPULSION RESEARCH
NASA-CR-54002 N64-17598 09-26

CARBON DIOXIDE CONTENT OF VENOUS & ARTERIAL BLOOD AND CARDIAC OUTPUT N64-17933 10-16

GAS EXCHANGE OF CARBON DIOXIDE AND OXYGEN IN ALVEOLAR REGION DURING DIVING & ADVERSE BREATHING MODES N64-17935 10-16

BREATH HOLDING METHODS OF STUDYING CARBON DIOXIDE, OXYGEN TENSION, AND EFFECTS OF ALTITUDE ACCLIMATIZATION ON RESPIRATION N64-17936 10-16

MEASUREMENT OF OXYGEN, CARBON DIOXIDE, & NITROGEN GAS PRESSURES IN ALVEOLUS AND ARTERY REGIONS N64-17940 10-16

OXYGEN & CARBON DIOXIDE TENSIONS IN DOG PULMONARY VEIN N64-17943 10-16

DYNAMICS OF CHANGES IN CARBON DIOXIDE IN BODY AND BLOOD N64-17950 10-16

INFRARED INSTRUMENT FOR QUANTITATIVE ANALYSIS OF CARBON DIOXIDE
NASA-CR-53359 N64-18119 10-15

CALCULATION OF CROSS SECTIONS FOR VIBRATIONAL EXCITATION OF CARBON DIOXIDE BY COLLISION WITH NITROGEN
GDA-DBE-64-004 N64-18624 11-23

VACUUM ULTRAVIOLET PHOTOLYSIS OF CARBON DIOXIDE USING KRYPTON, XENON, AND HYDROGEN LIGHT SOURCES
NASA-CR-53748 N64-19173 11-07

LIPOIC ACID EFFECT ON REDUCTION OF CARBON DIOXIDE DURING PHOTOSYNTHESIS N64-19469 12-07

INTEGRATED CARBON DIOXIDE HYDROGENATION SYSTEM FOR OXYGEN RECOVERY
ASD-TDR-62-581, PT. 2 N64-19791 12-07

REACTION OF ELECTRONICALLY EXCITED OXYGEN WITH CARBON MONOXIDE TO PRODUCE OZONE AND CARBON DIOXIDE
NASA-CR-56036 N64-20602 13-07

CARBON DIOXIDE CHEMICAL REDUCTION UNIT FOR CONTINUOUS ZERO GRAVITY OPERATION
NASA-CR-54060 N64-20679 13-16

SULFATE CYCLE FOR CARBON DIOXIDE REMOVAL AND OXYGEN GENERATION
NRL-6033 N64-21059 14-06

EFFECTS OF HIGH CONCENTRATION OF CARBON DIOXIDE AND OF LIQUID DIET ON URINE EXCRETION OF STEROIDS AND CATECHOLAMINES
SAM-TDR-63-63 N64-21094 14-16

CHEMICAL KINETICS GOVERNING CARBON DIOXIDE FORMATION INDUCED BY SHOCK WAVE TRAVELING THROUGH ARGON-CARBON DIOXIDE MIXTURES
GD/A-DBE-64-002 N64-21355 14-24

FUNCTIONAL CHANGES IN ORGANISM AS RESULT OF BREATHING HIGH OXYGEN-LOW CARBON DIOXIDE GAS MIXTURE AT REST AND DURING EXERCISE N64-22170 15-16

SPECTRAL DISTRIBUTION OF OUTGOING LONG-WAVE RADIATION FLUXES DUE TO RADIATING WATER VAPOR, CARBON DIOXIDE OR OZONE
NASA-TT-F-210 N64-22676 15-28

FREEZEOUT MECHANISMS FOR WASTES & CARBON DIOXIDE AND PREDICTION METHOD FOR CONTAMINANT DEPOSITION ON HEAT EXCHANGER
ASD-TDR-63-508, VOL. 2 N64-23359 16-13

WATER AND CARBON DIOXIDE FREEZEOUT IN HEAT EXCHANGERS
ASD-TDR-63-508, VOL. 3 N64-23360 16-13

EFFECT OF LIGHT INTENSITY ON USE OF CARBON DIOXIDE AND ORGANIC COMPOUNDS DURING PHOTOSYNTHESIS OF

CHLOROPSEUDOMONAS ETHYLICUM N64-23433 16-16

CARBON DIOXIDE REDUCTION UNIT DESIGNED FOR CONTINUOUS ZERO GRAVITY OPERATION
NASA-CR-56544 N64-23521 16-17

CARBON DIOXIDE REMOVAL, CONVERSION, AND OXYGEN REGENERATION N64-24627 17-16

THERMAL RADIATION OF CARBON DIOXIDE IN ATMOSPHERE
NASA-TT-F-208 N64-24833 17-21

INTENSITIES OF CARBON DIOXIDE SPECTRAL BANDS
NASA-RP-253 N64-26075 18-07

CARBON DIOXIDE REDUCTION SYSTEM
AMRL-TDR-64-42 N64-26906 18-16

THERMAL DISSOCIATION OF CARBON DIOXIDE FOR TEMPERATURES FROM 6000 TO 10000 DEG K - HIGH TEMPERATURE PROPERTIES OF MARS & VENUS ATMOSPHERES
NASA-CR-56537 N64-27302 19-07

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON DIOXIDE
AMRL-TDR-64-35 N64-27432 19-16

OXYGEN SUPPLY AND CARBON DIOXIDE CONTROL IN CLOSED FALLOUT SHELTER
MRD-1242-2530 N64-28141 20-16

BINARY COUETTE FLOW WITH HYDROGEN INJECTED INTO CARBON DIOXIDE AND NITROGEN STREAMS FOR REENTRY COOLING SYSTEM
NASA-CR-58497 N64-29200 21-11

DIFFERENCES IN THERMODYNAMIC AND TRANSPORT PROPERTIES BETWEEN CARBON DIOXIDE AND NITROGEN - LOW DENSITY WIND TUNNEL NOZZLE DESIGN
NASA-CR-58314 N64-29359 21-34

CARBOXYLATION MECHANISMS IN PHOTOSYNTHESIS - PRODUCTION OF GLYCOLLATE FROM LABELLED GLUCOSE AS FUNCTION OF CARBON DIOXIDE PARTIAL PRESSURE
ASR-3 N64-30570 22-16

PREPARATION OF GAS MIXTURES FOR SHOCK TUNNEL TESTS OF CARBON DIOXIDE FORMATION - CHEMICAL KINETICS
GDA-DBE-64-044 N64-31113 22-07

CARBON DIOXIDE REDUCTION, ATMOSPHERIC REGENERATION SYSTEMS, AND WATER RECOVERY FOR LONG MISSION MANNED SPACE VEHICLE
SSD-TDR-64-95 N64-31979 23-16

WIND TUNNEL TESTS ON ENTRY BODY IN AIR AND CARBON DIOXIDE MIXTURES TO DETERMINE AERODYNAMIC EFFECTS OF ATMOSPHERE
AIAA PAPER-64-481 N64-32945 24-02

CONDITIONED RESPIRATORY REFLEX AND RESPONSE TO CARBON DIOXIDE UNDER INFLUENCE OF CHLORPROMAZINE
FTD-TT-64-69/1&2&4 N64-33102 24-16

HYPERSONIC WIND TUNNEL TESTS OF MODELS IN AIR-CARBON DIOXIDE MIXTURES
NASA-CR-59033 N64-33196 24-02

WATER TOXICITY STUDIES - ERYTHROCYTE AND HEMOGLOBIN RESISTANCE, AND CARBON DIOXIDE CONTENT OF BLOOD PLASMA
NASA-TT-F-9125 N64-33401 24-16

EFFECT OF CULTURE MEDIUM PH ON DEVELOPMENT OF CHLORELLA AND METABOLISM OF CARBON 14 ABSORBED IN CARBON DIOXIDE BY CHLORELLA N64-33495 24-16

CARBON MONOXIDE
VULNERABILITY OF CENTRAL NERVOUS SYSTEM TO CARBON MONOXIDE, CYANIDE, AND OTHER POISONING N64-14595 06-16

VISCOSITY OF HYDROGEN, DEUTERIUM, METHANE, AND CARBON MONOXIDE - SQUID PROJECT
BRN-10-P N64-15762 07-19

ELECTRON POTENTIAL RETARDATION PHOTOEMITTED BY NITROGEN, OXYGEN, AND CARBON MONOXIDE
D1-82-0315 N64-18004 10-23

VIBRATIONAL EXCITATION OF NITROGEN, CARBON MONOXIDE, AND HYDROGEN BY ELECTRON IMPACT
AD-433190 N64-18267 10-23

GAS ADSORPTION ON ORGANIC SURFACE - NITROGEN AND CARBON MONOXIDE ON CYCLOTETRAMETHYLENE TETRANITRAMINE /HMX/
PA-TR-3092 N64-18381 10-19

HARTLEY BAND EXTINCTION COEFFICIENTS OF OZONE IN GAS PHASE AND IN LIQUID NITROGEN, CARBON MONOXIDE, AND ARGON
NASA-CR-53898 N64-19794 12-23

REACTION OF ELECTRONICALLY EXCITED OXYGEN WITH CARBON MONOXIDE TO PRODUCE OZONE AND CARBON DIOXIDE
NASA-CR-56036 N64-20602 13-07

THERMODYNAMIC PROPERTIES OF GASEOUS AND LIQUID CARBON MONOXIDE AT LOW TEMPERATURES AND HIGH PRESSURES
NBS-TN-202 N64-23165 14-13

GAS AND CRYOSURFACE TEMPERATURE EFFECT ON CAPTURE COEFFICIENT OF SIX GASES
AEDC-TDR-64-84 N64-24178 16-13

CARBON MONOXIDE CONTAMINANT IN NUCLEAR SUBMARINE ATMOSPHERE N64-24619 17-16

CHEMICAL REACTION OF ATOMIC OXYGEN WITH CARBON MONOXIDE
NASA-CR-56460 N64-25492 17-07

CATALYTIC REDUCTION OF CARBON MONOXIDE WITH HYDROGEN
NASA-CR-57 N64-25603 17-07

ADSORPTION OF NITROGEN ON TUNGSTEN WIRE AND CARBON MONOXIDE ON MOLYBDENUM
TR-64-255.7 N64-26215 18-23

DEPENDENCE OF TOTAL ABSORPTANCE OF CARBON MONOXIDE ON ABSORBER CONCENTRATION, PRESSURE, AND TEMPERATURE
AFCRL-64-448 N64-26242 18-07

KINETICS OF REACTIONS IN HYDROGEN /CARBON MONOXIDE/ OXYGEN SYSTEM
R64SD37 N64-27567 19-07

RADIATIVE HEAT TRANSFER ON ATMOSPHERIC ENTRY TO MARS OR VENUS - DISSOCIATION RATE OF CARBON MONOXIDE AT HIGH TEMPERATURES
NASA-CR-58574 N64-29185 21-24

OXIDATION REACTIONS OF CARBON MONOXIDE IN PRESENCE OF CARBON AND OXYGEN
GDA-DBE-64-001 N64-30766 22-07

TEMPERATURE INFLUENCE ON RATE AT WHICH LEAD AGGLOMERATES ARE REDUCED BY HYDROGEN AND CARBON MONOXIDE N64-31412 23-07

LABORATORY APPARATUS TO STUDY CATALYTIC REDUCTION OF CARBON MONOXIDE WITH HYDROGEN - UTILIZATION OF LUNAR RAW MATERIALS TO PRODUCE OXYGEN
NASA-CR-58956 N64-33172 24-10

MOLECULAR BEAM SPECTROMETRY OF CARBON MONOXIDE-OXYGEN FLAMES
QTSR-11 N64-33423 24-13

CARBON 13
HELIUM-3 NEUTRON GROUND STATE REACTION ON CARBON-12 AND 13 INCLUDING ANGULAR DISTRIBUTIONS AND EXCITATION CURVES
URPA-7 N64-10192 01-23

SEPARATION AND PURIFICATION OF CARBON-13, RADIOACTIVE ELEMENTS STUDIES, AND CALORIMETRY
MLM-1152 N64-15854 07-23

CARBON 13-OXYGEN 16 ALPHA-NEUTRON REACTION BETWEEN 5.9 AND 8.4 MEV

UR-875-8 N64-17981 10-23

CARBON 14
RADIOACTIVE CARBON-14 FOR AQUATIC ECOLOGY STUDY - HYDROBIOLOGY
JPRS-20614 N64-10593 01-16

COMPARATIVE STUDY OF IONIZING RADIATION AND ELECTRIC DISCHARGES ON ORGANIC COMPOUNDS - METHANE, AMMONIA AND WATER N64-11117 02-07

CHLORINATION OF CHROMIC OXIDE IN PRESENCE OF CARBON WITH CARBON TETRACHLORIDE & PHOSGENE AS CHLORINATING AGENTS - CARBON 14 AS TRACER
BM-RI-6402 N64-17803 09-07

EFFECT OF CULTURE MEDIUM PH ON DEVELOPMENT OF CHLORELLA AND METABOLISM OF CARBON 14 ABSORBED IN CARBON DIOXIDE BY CHLORELLA N64-33495 24-16

CARBONACEOUS METEORITE
SIMILARITY OF ORGANIC COMPOUNDS IN CARBONACEOUS METEORITES TO THOSE IN MARINE SEDIMENTS - EVOLUTION OF LIFE N64-19584 12-16

METEORITE MICROSTRUCTURES AND ORGANIC MATTER IN CARBONACEOUS METEORITE
NASA-CR-56535 N64-22796 16-07

ORGANIC AND INORGANIC CONSTITUENTS OF CARBONACEOUS AND BTHER SELECTED STONY METEORITES N64-26869 18-05

ORGANIC CONSTITUENTS OF CARBONACEOUS CHONDRITES N64-30790 22-07

CARBONATE
DESTRUCTIVE EFFECT OF ELECTRICAL PULSE DISCHARGE IN WATER ON CONCRETE & CHALK
FTD-TT-63-385/1&2 N64-12314 03-23

HYPERVENTILATION-ALKALOSIS AND BICARBONATE CONCENTRATION EFFECT ON ACID-BASE EQUILIBRIUM FOR OXYGEN TRANSFER AND CONSUMPTION N64-15037 07-16

MOLTEN CARBONATE HYDROGEN FUEL CELLS
TI-08-63-108 N64-15562 07-06

AMMONIACAL-AMMONIUM CARBONATE LEACHING OF MANGANIFEROUS MATERIALS
BM-RI-6368 N64-15797 07-07

MOLTEN-CARBONATE FUEL BATTERY
TI-08-63-63 N64-16300 08-06

CHARACTERISTICS OF LITHIUM ELECTRODE & LEWIS ACID-PROPYLENE CARBONATE ELECTROLYTES N64-22888 16-06

NUCLEAR RADIATION EFFECTS ON ELECTRIC, MECHANICAL, AND OPTICAL PROPERTIES OF MERLON POLYCARBONATE
MARF-63-19T N64-29804 21-19

POLYCARBONATE LACQUER FILM CAPACITORS
GPR-21 N64-29948 21-17

CHEMICAL REACTIONS OF OXIDES WITH HALIDES, CARBONATES, SULFATES, AND NITRATES
FTR-1964 N64-30665 22-07

PH VALUES, BICARBONATE CONTENTS AND CARBONIC ACID PRESSURE OF HUMAN BLOOD IN SHORT TERM OXYGEN DEFICIENCY
OVL-225 N64-32326 23-16

CARBONIC ACID
DIFUNCTIONAL DERIVATIVES OF PERFLUORODICARBONIC ACIDS
FTD-TT-63-463/1&2 N64-12086 03-07

PH VALUES, BICARBONATE CONTENTS AND CARBONIC ACID PRESSURE OF HUMAN BLOOD IN SHORT TERM OXYGEN DEFICIENCY
OVL-225 N64-32326 23-16

CARBONIZATION
CF CHEMICAL REACTION
CF DECOMPOSITION
VARIATION OF GRAPHITE PROPERTIES WITH CHEMICAL STRUCTURE, AND CARBONIZATION STUDIES
WADD-TR-61-72, VOL. 27 N64-15579 07-19

CARBONYL
BEHAVIOR OF CARBONYLAZIDE TOWARD AROMATIC HYDROCARBONS AND DECOMPOSITION OF CARBAZIDE
RSIC-93 N64-12921 04-07

POWDERS OBTAINED FROM CARBONYLS AND OTHER PHYSICO-CHEMICAL METHODS OF PREPARATION OF POWDERS N64-15007 07-17

KINETICS OF THERMAL DECOMPOSITION OF SOLID CARBONYL COMPOUNDS OF METALS
FTD-TT-64-220/1&2&4 N64-25468 17-19

CARBOXYHEMOGLOBIN
CARBOXYHEMOGLOBIN IN DECOMPOSED BODIES OF ANIMALS
AMRL-TDR-63-69 N64-22290 15-16

CARBOXYLIC ACID
REACTION OF PRIMARY, SECONDARY, AND TERTIARY AMINES WITH CARBOXYLIC ACIDS IN BENZENE
AROD-3165-1 N64-29923 21-07

INTERACTION OF HEXAALKYLDISILAZANES WITH CARBOXYLIC ACIDS AND DIATOMIC PHENOLS
RSIC-264 N64-32485 23-07

CARCINOTRON
ONE MILLIMETER CONTINUOUS WAVE CARCINOTRON
RADC-TR-63-551 N64-13638 05-09

CARCINOTRON TUBE MEASUREMENTS - GENERATION OF INFRAMILLIMETRIC WAVES WITH ELECTRON BEAMS
RADC-TDR-64-45 N64-15060 07-09

GENERATION OF SUBMILLIMETER WAVES BY MEANS OF ELECTRON BEAMS - CARCINOTRON OSCILLATORS
WR-1213 N64-30814 22-09

CARDIOGRAM
S ELECTROCARDIOGRAM

CARDIOGRAPHY
BALLISTOCARDIOGRAPHY - HISTORY, PHYSICAL BASIS, TECHNIQUE, ANALYSIS, CHANGES DURING ILLNESS, AND APPLICATION TO OTHER BRANCHES OF MEDICINE
JPRS-18967 N64-11415 02-16

INTEGRATED PHONOCARDIOGRAPHIC AMPLIFIER FOR TRANSMISSION OF HEART MUSCLE SIGNALS FROM SPACECRAFT N64-11704 03-16

PULSE TECHNIQUE FOR RECORDING BLOOD PRESSURE OF DOGS DURING SPACE FLIGHTS - PHONOCARDIOGRAPHY N64-11705 03-16

INSTRUMENT FOR VECTORCARDIOGRAPHIC AND SCALAR ELECTROCARDIOGRAPHIC MEASUREMENTS
AD-412814 N64-16567 08-16

HEARTBEAT MEASUREMENT OF BIRD EMBRYOS WITH MICROMETEORITE TRANSDUCER AS BALLISTOCARDIOGRAPH
NASA-SP-5007 N64-19015 11-16

ACCELEROMETRIC PRECORDIAL BALLISTOCARDIOGRAM IN HYPERTENSION
NASA-TT-F-198 N64-25054 17-16

ANALYSIS OF CARDIAC ACTIVITY BY CENTER OF GRAVITY VARIATIONS IN HUMAN THORAX - DYNAMOCARDIOGRAPH
NASA-TT-F-205 N64-25206 17-16

PHONOCARDIOGRAPH FOR RECORDING HEART SOUND
FTD-TT-63-1193/1&2&4 N64-25458 17-16

INSTRUMENTATION FOR SIMULTANEOUS RECORDING OF BLOOD PRESSURE CURVE, PHONOCARDIOGRAM, AND ELECTROCARDIOGRAM
JPRS-25897 N64-27125 19-16

UNDERWATER ACOUSTICS, VECTORCARDIOGRAMS, AND NORMAL HEART SOUNDS
JPRS-26103 N64-28431 20-16

MATHEMATICAL MODEL AND DIGITAL COMPUTER STUDY OF ABNORMAL PHYSIOLOGICAL PHENOMENA IN

BALLISTOCARDIOGRAM
-11 N64-30493 22-16

TENSION AND EXPULSION TIMES FOR CARDIAC SYSTOLE AS FUNCTION OF FREQUENCY IN NORMAL CARDIOVASCULAR SYSTEM OF MAN
NASA-TT-F-8567 N64-31557 23-16

IMPLANTED STRAIN GAUGE SENSOR SYSTEM FOR MYOCARDIOGRAPHY
NASA-CR-59058 N64-32890 24-15

CARDIOVASCULAR SYSTEM
SA CAPILLARY
SA HEART
SA VEIN
CF BLOOD CIRCULATION
VIBRATION STIMULUS TEST OF NEUROMUSCULAR, CENTRAL NERVOUS AND CARDIOVASCULAR SYSTEMS
N64-10782 02-16

MECHANICAL PROPERTY CHANGES OF PLASTIC TUBULE SUBSTITUTED FOR BLOOD VESSEL IN CARDIOVASCULAR SYSTEM OF DOGS
JPRS-18644 N64-11316 02-16

IMPLANTING ELECTRIC STIMULATOR UNDER SKIN THROUGH INTERSPACE FOR CARDIOVASCULAR SYSTEM STUDY
JPRS-21909 N64-11356 02-16

IONIZING RADIATION EFFECT ON CARDIOVASCULAR SYSTEM
JPRS-17659 N64-11607 03-16

PHYSIOLOGICAL RESPONSE OF CARDIOVASCULAR SYSTEM TO VIBRATION STRESS OF SPACE FLIGHT
N64-11698 03-16

PHYSIOLOGY OF DOG RESPIRATORY AND CARDIOVASCULAR SYSTEMS DURING STRESS OF ACCELERATION
N64-11699 03-16

SEISMOCARDIOGRAM CONSTRUCTION FOR CARDIOVASCULAR STUDY OF DOGS HEART ACTIVITIES DURING SPACE FLIGHT
N64-11706 03-16

RESPONSE OF ANIMAL CARDIOVASCULAR AND RESPIRATORY SYSTEMS TO HIGH ALTITUDE FLIGHT
N64-11853 03-16

X-RADIATION EFFECTS ON LIFESPAN, & CARDIOVASCULAR AND REPRODUCTIVE SYSTEMS OF DOG
UCD-107 N64-12111 03-16

CARDIOVASCULAR RESPONSE IN MAN DURING FORWARD ACCELERATION N64-13463 05-16

CARDIORESPIRATORY RESPONSES OF ANESTHETIZED DOGS TO COMPRESSION THERAPY FOLLOWING EXPERIMENTAL DECOMPRESSION SICKNESS
SAM-TDR-63-94 N64-15744 07-16

TOXICOLOGY - EFFECTS OF ENDRIN INSECTICIDE ON DOG CARDIOVASCULAR SYSTEM
CARI-63-16 N64-16541 08-16

ACCELERATION STRESS MEASUREMENT ON CARDIO-RESPIRATORY SYSTEM BY DECREASES IN ARTERIAL OXYGEN CONCENTRATION
AMRL-TDR-63-104 N64-16806 08-16

INTUBATION OF ABNORMAL AORTA OF GROUND SQUIRREL
TH-63-2 N64-19557 12-16

SYNTHETIC ELECTROCARDIOLOGY - STUDY OF CARDIAC FUNCTIONS
JPRS-25015 N64-21482 14-16

CARDIOVASCULAR EFFECTS OF REFEEDING STRESS FOLLOWING STARVATION
TM-62-6 N64-21553 15-16

IMPEDANCE MEASUREMENT OF CARDIAC OUTPUT - THORACIC CAGE IMPEDANCE MEASUREMENTS
SAM-TDR-64-15 N64-21597 15-16

SIMULTANEOUS STUDY OF EYE BLINKING REFLEXES AND FUNCTIONAL STATE OF CARDIOVASCULAR SYSTEM IN HUMANS
JPRS-24967 N64-21783 15-16

PRECORDIAL VIBRATION IN CARDIOVASCULAR SYSTEM - TRANSFER OF HEART CONTRACTILE ENERGY THROUGH LUNG-THORAX SYSTEM N64-22412 15-16

REACTION OF HUMAN AND ANIMAL CARDIOVASCULAR SYSTEM UNDER CONDITIONS OF WEIGHTLESSNESS
NASA-TT-F-8895 N64-22941 16-16

AURICULAR ELECTROMYOGRAM - DIAGNOSTIC METHOD FOR HEMODYNAMIC DISORDERS AND CARDIAC DISEASES
FTD-TT-64-271/1&2&3&4 N64-26092 18-16

REACTION OF CARDIOVASCULAR SYSTEM OF MAN AND ANIMALS UNDER WEIGHTLESSNESS N64-29090 21-16

ELECTRONIC EQUIPMENT FOR CARDIOVASCULAR DIAGNOSIS
N64-30239 22-16

TENSION AND EXPULSION TIMES FOR CARDIAC SYSTOLE AS FUNCTION OF FREQUENCY IN NORMAL CARDIOVASCULAR SYSTEM OF MAN
NASA-TT-F-8567 N64-31557 23-16

DYNAMICS OF PHYSICAL AND CHEMICAL SYSTEMS IN MAMMALS - THERMOREGULATION, CARDIOVASCULAR SYSTEMS, HORMONES, AND BEHAVIOR
NASA-CR-129 N64-32833 24-16

CARGO
EQUIPMENT AND EMPLOYMENT CONCEPTS FOR CARGO HANDLING FUNCTIONS FOR LOGISTIC OPERATIONS
TRECOM-TR-64-26 N64-31953 23-17

CARGO AIRCRAFT
FLEXIBLE WING PARAGLIDER FOR CONTROLLED CARGO DELIVERY FROM FIXED OR ROTARY WING AIRCRAFT TO PREDETERMINED LANDING SITE
TRECOM-TR-63-64 N64-14978 04-04

WIND-TUNNEL FLUTTER STUDIES OF SWEPTBACK T-TAIL FOR LARGE MULTIJET CARGO AIRCRAFT AT MACH NUMBERS TO 0.90
NASA-TN-D-2179 N64-17725 09-01

ECONOMICS OF SCHEDULING CARGO AND PASSENGER AIRCRAFT SERVICE
FTD-TT-63-789/1 N64-29588 21-01

TRANSALL C-160 MILITARY TRANSPORT PLANE - EJECTION BY PARACHUTE OF LIGHT ARTILLERY PIECES
FTD-TT-63-790/1&2 N64-30564 22-04

CARRIER
CHARGE TRANSPORT AND CARRIER GENERATION IN CADMIUM SULFIDE
E-745-P N64-14464 04-23

STABILITY ANALYSIS OF TWO-WAY CONTROLLED CARRIER TRANSMISSION SYSTEMS
AFCRL-63-586 N64-16803 08-01

HIGH FREQUENCY TECHNIQUE FOR MEASURING BULK CARRIER LIFETIME IN SILICON SAMPLES WITHOUT ELECTRODES
AD-433623 N64-18225 10-20

LIFETIME OF NONEQUILIBRIUM CARRIERS IN MAGNETIC TRAPS
DI-82-0340 N64-30041 21-20

TRANSIENT PROPERTIES OF GRADED BASE TRANSISTORS EXAMINED IN TERMS OF MINORITY CARRIER DISTRIBUTION IN BASE REGION
RADC-TDR-64-295 N64-32621 23-03

CARRIER INJECTION
CARRIER INJECTION ELECTROLUMINESCENT SOLID STATE LIGHT SOURCES
AFCRL-63-526 N64-13625 05-20

INJECTION & TRANSPORT OF CARRIERS IN SOLID ORGANIC MATERIAL
AROD-4642-1 N64-25516 17-20

CARRIER MODULATION
DETECTABILITY OF DISCRETELY MODULATED CARRIERS
SSD-TDR-64-34 N64-22321 15-04

POWER ALLOCATION IMPROVEMENT IN MULTIPLEX

TELEMETRY SYSTEMS BY MODULATING HIGH POWER-CONSUMING FUNCTION ON SEPARATE RADIO FREQUENCY CARRIER
ESD-TDR-64-104 N64-30456 22-08

CARRIER ROCKET
S LAUNCH VEHICLE

CARRIER SYSTEM
SPECTROGRAPHIC ANALYSIS OF URANIUM FOR TRACE IMPURITIES BY CARRIER DISTILLATION METHOD
AEET/ANAL/25 N64-10149 01-23

CARTAN SPACE
S COMPRESSIBLE FLOW
S POTENTIAL FLOW

CARTOGRAPHY
CF MAPPING
TOPOGRAPHIC MAPS - KEY, ORGANIZATION OF SURVEY, USSR REGULATIONS, NEEDS IN USSR ECONOMY, AND USE IN ENGINEERING - CARTOGRAPHY
JPRS-19321 N64-10654 01-12

GEODESY AND CARTOGRAPHY IN HUNGARY
JPRS-19587 N64-11128 02-12

CARTOGRAPHY OF VISIBLE FEATURES OF MARS SURFACE
AFCRL-64-396 N64-25475 17-29

CARTRIDGE ACTUATED DEVICE
CF PROPELLANT ACTUATED DEVICE
CF THRUSTOR
CARTRIDGE ACTUATED THRUSTOR - DESIGN IMPROVEMENT
N64-31-1 N64-26827 18-06

CASCADE
HIGH ENERGY ELECTRON-PHOTON CASCADE SHOWER CALCULATIONS BY IBM 7090 - MONTE CARLO METHOD
N64-12532 04-23

GENERATING POSITRONS IN TARGETS BOMBARDED BY ELECTRON BEAM USING ELECTRON-PHOTON CASCADE CALCULATIONS
N64-12533 04-23

SOLAR FLARE ATTENUATION BY ALUMINUM SHIELDS - NUCLEON-MESON CASCADE CALCULATIONS FOR SOLAR FLARE PROTON SPECTRA ON SHIELD
N64-12538 04-23

INTRANUCLEAR CASCADE CALCULATIONS FOR INCIDENT PARTICLE ENERGIES TO 2-GEV
N64-12539 04-23

CALCULATED CASCADE AND EVAPORATION REACTIONS FOR HIGH-ENERGY NUCLEONS INCIDENT ON COMPLEX NUCLEI
N64-12540 04-23

PARTICLE SIZE DISTRIBUTIONS ON CASCADE IMPACTOR USED TO SAMPLE AEROSOLS
LF-12 N64-12939 04-15

SOLUTION TO MESON-NUCLEON CASCADE EQUATION UNDER SPECIAL CONDITIONS
ORNL-3570 N64-16537 08-23

THEORY OF CASCADE SYNTHESIS FOR LUMPED, PASSIVE N-PORTS
RADC-TDR-64-332 N64-30942 22-09

EFFECTIVENESS OF THREE EXIT VANE CASCADE CONFIGURATIONS FOR THRUST VECTORING
NASA-TN-D-1688 N64-31080 22-03

CASCADE FLOW
AERODYNAMICS OF OSCILLATING CASCADE FLOW
DVL-248 N64-16204 08-03

TUNNEL TESTS ON DOUBLE CASCADES TO DETERMINE INTERACTION BETWEEN ROTOR AND NOZZLES IN SUPERSONIC TURBINES
ARC-CP-693 N64-16939 09-02

NOZZLE CASCADES FOR SUPERSONIC VELOCITY
FTD-TT-63-99/1&2&4 N64-23420 16-02

CENTRIFUGAL COMPRESSOR WHEEL AND CASCADE FLOW STUDIES FOR POWER MACHINE CONSTRUCTION
FTD-TT-62-1816/1&2&4 N64-23494 16-01

EFFICIENCY OF CENTRIFUGAL COMPRESSOR WHEELS WITH TWO-STAGE VANE CASCADE
N64-23497 16-17

CASCADE FLOW CALCULATIONS FOR SUBSONIC AND SUPERSONIC VELOCITIES AND FOR FLOW CHOKING
N64-23498 16-11

CALCULATION OF OPTIMUM INCIDENCES FOR AIRFOILS IN CASCADES
ARC-CP-646 N64-28986 20-03

TWO-DIMENSIONAL DOUGLAS NEUMANN PROGRAM TO HANDLE LIFTING, INFINITE CASCADES
LB-31653 N64-30964 22-03

TWO-DIMENSIONAL CASCADE FLOW MAPPING FOR BLADE OSCILLATION IN AXIAL FLOW COMPRESSORS
FTR-1/23 N64-31141 22-02

SUPERCAVITATING HYDROFOILS - CASCADE FLOW, CONVECTIVE HEAT TRANSFER, WALL EFFECTS, AND PRESSURE DISTRIBUTION
N64-31429 23-11

HYDROFOIL PROFILE CAVITATION TESTS TO ACCELERATE FLOW CASCADE
REPT.-142 N64-31431 23-11

CASCADE WIND TUNNEL
TUNNEL TESTS ON DOUBLE CASCADES TO DETERMINE INTERACTION BETWEEN ROTOR AND NOZZLES IN SUPERSONIC TURBINES
ARC-CP-693 N64-16939 09-02

CASE
CF CONTAINER
DESIGN AND FABRICATION OF PLASTICS CHARGE CASE FOR PROJECTOR CHARGE ANTISUBMARINE WEAPON
NOLTR-63-148 N64-12656 04-01

EFFECTS OF MECHANICAL DAMAGE ON PERFORMANCE OF FILAMENT WOUND MOTOR CASES
GER-11154/S5 N64-20180 13-34

EPOXY RESINS FOR FILAMENT WOUND MOTOR CASES OF POLARIS MISSILE
N64-21991 15-19

HYDROBURST TESTS OF SOLID PROPELLANT ROCKET MOTOR CASE OF MARAGING STEEL WITH WELDED JOINTS
N64-24357 17-17

EFFECT OF MECHANICAL DAMAGE ON PERFORMANCE OF FILAMENT-WOUND MOTOR CASES
GER-11623 N64-27964 20-27

DROP TESTING OF LIGHTWEIGHT ALUMINUM HONEYCOMB CASE
PR-4 N64-30050 21-34

LINEAR THEORY FOR CALCULATION OF STABILITY OF CIRCULAR CYLINDRICAL CASINGS
N64-30419 22-33

HYDROTESTING OF MOTOR CASES AND STATIC TESTING OF NOZZLE THROAT INSERT
REPT.-30-64 N64-33732 24-27

CASE BONDED PROPELLANT
FORCE VIBRATIONS OF CASE-BONDED SOLID PROPELLANT GRAINS
AD-434192 N64-18373 10-33

CASSEGRAIN ANTENNA
UNFURLABLE ANTENNAS FOR SPACE APPLICATIONS - HIGH GAIN CASSEGRAIN ANTENNA WITH SPHERICAL REFLECTOR
TSC-63-ESD-19 N64-21327 14-09

ELECTROMAGNETIC FIELD IN FRESNEL REGION OF CASSEGRAIN ANTENNA
RADC-TDR-62-360, VOL. II N64-22475 15-08

VERY HIGH POWER, VERY LOW NOISE CASSEGRAIN ANTENNA FEED SYSTEM FOR PLANETARY RADAR
NASA-CR-58674 N64-28970 20-08

CASTING
SA INVESTMENT CASTING
MECHANISM OF CRYSTALLIZATION AND DEVELOPMENT OF NOZZLE FLOW FOR CONTINUOUS CASTING OF STEEL
JPRS-18710 N64-10785 02-18

ALLOY CASTING OF TITANIUM AND ALUMINUM IN VACUUM

AND ELECTRIC FURNACES
JPRS-22175 N64-11276 02-18

TUNGSTEN BASE ALLOYS PREPARED BY VACUUM-ARC-CASTING PROCESS
AD-424267 N64-12245 03-18

CASTING, PRODUCTION, AND ZONE REFINING OF HIGH TEMPERATURE REFRACTORY METAL ALLOYS
JPRS-22336 N64-12445 04-01

TUNGSTEN METALLURGY RESEARCH - MELTING & CASTING, JOINING, ROCKET NOZZLE FABRICATION, AND HIGH TEMPERATURE REACTIONS
DMIC-193 N64-13845 05-18

CASTING TECHNIQUES AND DETONATION TESTS OF TNT SPHERES
SES-TP-288 N64-13911 05-26

RELATIONSHIP BETWEEN INHOMOGENEITY OF CAST ALLOYS AND BEHAVIOR AT HIGH TEMPERATURES
N64-17058 09-18

GAS TURBINE ROTOR BLADE FABRICATION FROM CAST MATERIAL N64-17080 09-17

METAL CASTING TECHNIQUE - VACUUM AND INERT GAS PROCESS FOR REFINING MOLTEN METALS
AD-432974 N64-17484 09-17

MELTING, CASTING, AND MECHANICAL PROPERTIES OF URANIUM ALLOYED WITH STEELS
BM-RI-6403 N64-17496 09-18

EFFECT OF ALLOY COMPOSITION ON PROPERTIES OF ALUMINUM-COPPER CASTING ALLOYS
NASA-CR-55908 N64-17673 09-18

PRECISION CASTING OF HEAT RESISTANT ALLOYS IN VACUUM N64-18531 11-17

COMPARATIVE STUDY OF 354-T61 AND 356-T6 ALUMINUM-SILICON-COPPER-MAGNESIUM CASTING ALLOYS FOR MECHANICAL PROPERTY ADVANTAGES
SM-44636 N64-18708 11-18

IMPROVING EASE OF MACHINING OF STEEL CASTINGS BY INTRODUCING SODIUM SULFUR COMPOUNDS INTO MOLTEN STEEL BEFORE CASTING
FTD-TT-63-352/1&2&4 N64-19216 11-17

TWO-LAYER STEEL FABRICATION - PREPARATION OF PLATES AND BLANKS, CASTING, HEATING AND ROLLING OF TWO-LAYERED INGOTS
JPRS-24422 N64-19302 12-18

MATERIALS SCIENCE - ELECTROFORMING OF HIGH QUALITY SPIN CASTING FOR SOLAR COLLECTOR
NASA-CR-53813 N64-19308 12-23

SQUEEZE CASTING OF THIN WALL PANELS
JPRS-24771 N64-20809 14-17

ALUMINUM ALLOY CASTINGS WITH HIGH IMPACT STRENGTH AT LOW TEMPERATURES
NASA-CR-58 N64-21254 14-18

DEFECTS OF PRESS CASTINGS AND METHODS FOR PREVENTION
FTD-MT-63-713/1&2 N64-21954 15-17

ELONGATION MEASUREMENTS OF HEAT TREATED ALUMINUM ALLOY CASTINGS
A728 N64-22574 15-18

CASTING TECHNOLOGY
JPRS-25172 N64-22741 16-17

TEMPERATURE AND RAREFACTION EFFECTS ON EVAPORATION DURING CASTING OF CERAMICS AND PROPERTIES OF CAST CERAMICS N64-23193 16-19

CASTING IMPELLERS IN CHILL MOLDS WITH CERAMIC CORES N64-23510 16-19

CASTING PROPERTIES OF HEAT-RESISTING ALLOYS
JPRS-24969 N64-24582 17-18

STRUCTURE AND PROPERTIES OF THIN-WALL CASTINGS FROM HEAT-RESISTANT ALLOYS N64-24584 17-18

PRODUCTION OF CAST TURBINE BLADES FROM HEAT-RESISTANT ALLOYS N64-24585 17-17

STRESS RELAXATION IN CAST ALLOYS
JPRS-25391 N64-25197 17-18

FATIGUE PROPERTIES OF TWO CASTING ALUMINUM ALLOYS CONTAINING MICROPOROSITY
ARL/SM-282 N64-26627 18-18

MECHANICAL PROPERTIES OF WELDED FOUNDRY DEFECTS IN A-356 ALUMINUM ALLOY CASTINGS
SM-45949 N64-27375 19-18

CLOSED DIE FORGING, RING ROLLING, SHEAR FORMING, TUBE AND SHAPE EXTRUSIONS, AND CENTRIFUGAL CASTING OF REFRACTORY ELEMENTS N64-27598 19-18

PHYSICAL PROPERTIES OF LOW DENSITY ALUMINUM-CERAMIC MATERIAL - CASTING TECHNIQUES
HDL-TR-1229 N64-27957 20-18

WATER-FREE EXPENDABLE GRAPHITE MOLD MATERIAL FOR REACTIVE METAL CASTINGS
BM-RI-6509 N64-28139 20-17

MECHANICAL PROPERTIES OF CAST METALS AND METHODS OF CASTING
JPRS-25537 N64-29035 21-18

ELECTROSLAG METAL CASTING AND POTENTIAL USE AS FOUNDRY PRODUCTION METHOD N64-29036 21-18

EFFECT OF COMPLEX REDUCING AGENT IN SMELTING ON MECHANICAL PROPERTIES OF CAST LOW-ALLOY MANGANESE STEEL N64-29038 21-18

EFFECT OF CASTING MOLD MATERIAL ON MECHANICAL PROPERTIES OF REFRACTORY METALS N64-29040 21-18

EFFECTS OF TECHNOLOGICAL PROCESSES ON MECHANICAL PROPERTIES OF CAST TITANIUM AND MOLYBDENUM ALLOYS N64-29041 21-18

EFFECT OF CERIUM ON MECHANICAL PROPERTIES OF CAST, HEAT-RESISTANT, CHROMIUM-MOLYBDENUM-VANADIUM STEEL N64-29043 21-18

CASTING IMPELLER BLADES OF HEAT RESISTANT STEEL FOR TURBOCOMPRESSOR N64-29045 21-18

ALUMINUM ALLOYS FOR PRESSURE CASTING N64-29048 21-18

EFFECTS ON GRAIN SIZE OF VIBRATION DURING POURING OF MOLTEN ALLOYS TO FORM CASTINGS N64-29049 21-18

HEAT TREATMENT OF MAGNESIUM ALLOY CASTINGS N64-29050 21-18

PLASTIC BEHAVIOR OF ARC-CAST MOLYBDENUM AND ELASTIC LINEAR STRAIN HARDENING OF ZINC ALLOY BEAM
ML-TDR-64-158 N64-30692 22-18

MICROSTRUCTURE AND MECHANICAL PROPERTIES OF CAST IRON WITH YTTRIUM AS NODULIZER
REPT.-64-730 N64-31041 22-18

CASTABLE CARBON ROCKET NOZZLE - SUBSCALE FABRICATION
RPL-TDR-64-130 N64-31077 22-17

CAT

IONIZING RADIATION EFFECT ON VISUAL PATHWAY & EYE OF CAT
UCRL-11005 N64-11097 02-16

NYSTAGMUS RESPONSES OF CATS TO ROTATION AND DIRECTIONAL STIMULI AFTER CALORIC HABITUATION OF ONE EAR - VESTIBULAR EFFECT
CARI-63-14 N64-11949 03-16

IMIPRAMINE INHIBITION OF MONOAMINE OXIDASE OF CAT BRAIN N64-12573 04-16

PRIMARY, SECONDARY, AND CALORIC NYSTAGMUS OF CATS FOLLOWING HABITUATION TO ROTATION
CARI-63-13 N64-14544 06-16

STUDY OF VESTIBULAR SUPPRESSION PHENOMENA IN CATS
AMRL-TDR-63-119 N64-16810 08-16

COMPUTER ANALYSIS OF PROLONGED EFFECTS OF LYSERGIC ACID DIETHYL AMIDE ON ELECTROENCEPHALOGRAM RECORDS DURING DISCRIMINATIVE PERFORMANCE IN CAT
N64-22427 15-16

NORMAL VARIATIONS OF VECTORCARDIOGRAM COMPONENTS IN DOG, CAT, AND RABBIT
JPRS-25599 N64-27318 19-16

RESPONSES FROM AUDITORY CORTEX IN CATS
N64-29594 21-16

PHARMACOLOGICAL EFFECTS ON CATS OF TETRAMETHYL-CYSTAMINE
N64-31346 23-16

VARIABILITY OF PRIMARY EVOKED POTENTIALS RECORDED UNIPOLARLY FROM CORTICAL SURFACE OF CAT IN STATE OF NARCOSIS - ELECTROPHYSIOLOGY
N64-31541 23-16

SPONTANEOUS MOTOR ACTIVITY IN CATS AND ACTIVITY ALTERATION AFTER BILATERAL DESTRUCTION OF CAUDAL NUCLEI
N64-31543 23-16

EFFECT OF ELECTRIC STIMULATION ON SPINOCERVICAL TRACT OF CAT
N64-33264 24-16

ELECTROPHYSIOLOGICAL STUDY OF VESTIBULAR APPARATUS MECHANISMS AND INTERCONNECTIONS BETWEEN CANALS AND NUCLEI IN MEDULLA OBLONGATA OF CATS
NASA-TT-F-9147 N64-33408 24-16

CATALYST
VANADIA CATALYZED BURNER USING LEADED GASOLINE AS FUEL FOR THERMOELECTRIC GENERATOR
G-82088-2 N64-13756 05-26

PARA-ORTHO HYDROGEN CONVERSION BY CATALYSTS INCLUDING RADIOACTIVE MATERIALS
RTD-TDR-63-4106 N64-14308 06-19

ANODE CATALYST MATERIAL FOR OPERATION OF DIRECT HYDROCARBON FUEL CELLS AT LOW TEMPERATURES
N64-17407 09-06

CATALYST & ELECTRODE STUDIES FOR HIGH PERFORMANCE LIGHTWEIGHT HYDROGEN-OXYGEN FUEL CELL
NASA-CR-54022 N64-18162 10-06

CATALYST DEVELOPMENT FOR LOW TEMPERATURE PARA-ORTHO CONVERSION REACTION OF HYDROGEN
APL-TDR-64-48 N64-27459 19-07

HYDROGEN-OXYGEN FUEL CELL STUDIES - CATALYSTS, ELECTRODES, AND ELECTROLYTES
APL-TDR-64-88 N64-28575 20-06

RADIATION ACTIVATION OF ORTHO-PARA HYDROGEN CATALYSTS
QPR-1 N64-32357 23-07

CONVERSION RATE OF PARA-ORTHO HYDROGEN CAUSED BY PARAMAGNETIC ION ON CATALYST SURFACE
QPR-2 N64-32515 23-23

CATALYTIC COMBUSTION HEAT SOURCES USING LEADED GASOLINE BURNER FOR THERMAL ENERGY CONVERTERS
REPT.-3 N64-32601 23-06

CHELATE CATALYST FOR ELECTROCHEMICAL OXIDATION OF HYDROCARBON FUELS AT MODERATE TEMPERATURES
AD-434194L N64-33983 24-07

ADSORPTION OF OXYGEN ON NICKEL OXIDE-LITHIUM OXIDE CATALYSTS
N64-33997 24-07

CATALYTIC ACTIVITY
PROBLEMS IN CHEMICAL KINETICS AND HETEROGENEOUS CATALYSIS
JPRS-17941 N64-10491 01-07

CATALYTIC EFFECT OF OXIDE ADMIXTURES ON
RECRYSTALLIZATION OF SILICA
FTD-TT-63-512/1&2 N64-12315 03-19

HYDROGEN ATOM RECOMBINATION CATALYSIS FOR INCREASE IN PROPELLANT SPECIFIC IMPULSE - ARC JET PROPULSION UNIT APPLICATION
NASA-CR-52378 N64-13061 04-23

CATALYTIC ACTIVITY AND METAL & METAL OXIDE ATOM RECOMBINING ESTIMATION FROM ARC-TUNNEL HEAT TRANSFER DATA
TP-76 N64-13982 05-13

CATALYTIC RECOMBINATION OF ATOMS ON SURFACE OF BODY IN GAS FLOW
SSD-TDR-63-345 N64-14958 06-24

CATALYTIC HYDROCRACKING OF POLYPHENYLS FOR RECOVERY OF ORGANIC NUCLEAR REACTOR COOLANT
NRB-6003TI N64-16553 08-07

CATALYSIS CHROMATOGRAPHY OF PROPYLENE HYDROGENATION ON NICKEL-SILICON DIOXIDE
N64-20927 14-07

ELECTROCHEMICAL STUDY OF CATALYTIC ACTIVITY ON HYDROGEN ELECTRODE IN FUEL CELL
AD-432973 N64-21398 14-07

CATALYTIC IGNITION OF HYDROGEN-OXYGEN PROPELLANT COMBINATION
RR-63-9 N64-21901 15-26

CATALYTIC ACTIVITY OF ORGANIC POLYMER COMPOUNDS
FTD-TT-62-1650/1&2&4 N64-21921 15-07

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS - CATALYSTS AND CATALYTIC ACTIVITY IN INTERMEDIATE SYSTEMS FORMED DURING SYNTHESIS OF LOW MOLECULAR WEIGHT ORGANIC COMPOUNDS
BL-86 N64-22781 16-16

KINETIC EQUATIONS FOR PLASMA TURBULENCE AND CATALYTIC ACTIVITY OF CHELATE POLYMERS
FTD-TT-62-1795/1&2&4 N64-22997 16-24

CATALYTIC ACTIVITY OF ORGANOMETALLIC CHELATE POLYMERS
N64-22999 16-07

COMBUSTIBLE CATALYTIC REACTOR TO STUDY OXIDATION VAPOR AND AEROSOL OF ORGANIC COMPOUNDS
NRL-6040 N64-24082 16-23

CATALYTIC REDUCTION OF CARBON MONOXIDE WITH HYDROGEN
NASA-CR-57 N64-25603 17-07

EFFECT OF CATALYTIC SURFACES ON STAGNATION POINT HEAT TRANSFER IN PARTIALLY DISSOCIATED FLOWS
N64-26159 18-13

RELATIONSHIP BETWEEN SURFACE ELECTRICAL PROPERTIES OF SEMICONDUCTOR CATALYST AND ITS CATALYTIC ACTIVITY
TR-1 N64-26489 18-25

EFFECT OF SOLID STATE DISLOCATIONS UPON CATALYTIC ACTIVITY OF METALS
AD-400749 N64-27613 19-07

CATALYTIC ACTIVITY OF RARE EARTH COMPOUNDS IN DIRECTED POLYMERIZATION
N64-28043 20-07

CATALYTIC ACTIVITY OF ORGANIC POLYMERS
FTD-TT-63-414/1&2 N64-29016 20-07

CATALYTIC COMBUSTION HEAT SOURCES FOR THERMAL ENERGY CONVERTERS
F-82088 N64-29914 21-06

CATALYTIC IGNITION OF OXYGEN/HYDROGEN SYSTEMS
NASA-CR-54086 N64-30086 21-26

CHELATE CATALYST FOR ELECTROCHEMICAL OXIDATION OF HYDROCARBON FUELS AT MODERATE TEMPERATURE
NRB-4012SA1 N64-31112 22-07

CHANGES IN CATALASE ACTIVITY OF EGG HOMOGENATES DURING EMBRYONATION
N64-32225 23-16

CATALYSIS OF REACTIONS IN SOLID PHASE - THERMAL DECOMPOSITION OF AMMONIUM PERCHLORATE IN PRESENCE OF FERRIC OXIDE
FTD-MT-63-244 N64-33026 24-07

LABORATORY APPARATUS TO STUDY CATALYTIC REDUCTION OF CARBON MONOXIDE WITH HYDROGEN - UTILIZATION OF LUNAR RAW MATERIALS TO PRODUCE OXYGEN
NASA-CR-58956 N64-33172 24-10

CATALYSIS IN ELECTROCHEMICAL ENERGY CONVERSION AND ELECTROCHEMICAL OXIDATION OF HYDROCARBON PARALLEL REACTIONS
NASA-CR-59094 N64-33197 24-07

CATALYSIS IN ELECTROCHEMICAL ENERGY CONVERSION
N64-33198 24-07

EFFECT OF CHEMICAL REACTIONS ON FLOW AND CATALYTIC ACTIVITY ON REACTION TIMES
ONERA-TP-10/1963/ N64-33739 24-11

ULTRAVIOLET IRRADIATION-INDUCED CATALYTIC ACTIVITY OF MAGNESIUM OXIDE USING ELECTRON PARAMAGNETIC RESONANCE SPECTRA
NASA-RP-348 N64-34011 24-07

CATAPULT
SA LAUNCHING
DEVELOPMENT OF XM13 ROCKET CATAPULT
R-1689 N64-12324 03-01

ROCKET CATAPULT FOR EJECTION SEAT
AD-440352 N64-21090 14-30

EVALUATION OF AIRCRAFT LAUNCH CATAPULTS AND ARRESTED LANDING GEAR ON ALUMINUM RUNWAY MAT
TAC-TR-63-71 N64-31021 22-10

PROPELLANT ACTUATED DEVICES /PAD/ INCLUDING THRUSTERS, CATAPULTS, INITIATORS, AND STRUCTURAL MATERIAL
PAD-93-1 N64-32596 23-27

CATECHOLE
OXYGEN CONSUMPTION AND CATECHOLAMINE RELEASE FROM ADRENAL SLICES AND RATE OF RESPIRATION
SAM-TDR-63-50 N64-12835 04-16

EFFECT OF X-RAY IRRADIATION DURING HIBERNATION ON TISSUE CATECHOLAMINE CONTENTS N64-12943 04-16

URINARY CATECHOLAMINE OUTPUT CHANGES ASSOCIATED WITH MOTION SICKNESS DUE TO TURBULENT FLIGHT
SAM-TDR-63-9 N64-13931 05-16

ULTRAVIOLET ABSORPTION SPECTRA OF STEROID AND CATECHOLE DERIVATIVES
ARL-TDR-63-29 N64-14971 06-16

EFFECTS OF HIGH CONCENTRATION OF CARBON DIOXIDE AND OF LIQUID DIET ON URINE EXCRETION OF STEROIDS AND CATECHOLAMINES
SAM-TDR-63-63 N64-21094 14-16

CATECHOLAMINES IN VARIOUS ORGANS OF DOGS UNDER CONDITIONS OF DEEP HYPOTHERMIA
FTD-TT-63-1096/1&2 N64-22142 15-16

BLOOD SERUM ENZYME ACTIVATION AND SPECTRUM ANALYSIS OF CATECHOLAMINES
JPRS-24838 N64-24561 17-16

PHOTOELECTRONIC UNIT FOR BIOMEDICAL STUDY OF SPECTRAL DISPERSION OF CATECHOLAMINES
N64-24563 17-16

CATHODE
CF ANODE
CF BATTERY
CF ELECTRODE
DEVELOPMENT OF SELF-STABILIZED GAS DISCHARGE COLD ELECTRONIC CATHODE TUBE
JPRS-18179 N64-10749 02-09

CURRENT PASSAGE THROUGH A PLASMA DIODE WITH HEATED CATHODE FOR MAGNETOGASDYNAMIC ENERGY CONVERSION
JPRS-19408 N64-10821 02-24

THERMIONIC OXIDE CATHODES AND NONTHERMIONIC ELECTRON SOURCES
AFCRL-63-342 N64-11465 03-23

ELECTRON & ION EMISSION FROM LASER-HEATED OXIDE CATHODES N64-13798 05-25

OXIDE-COATED CATHODES FOR HIGH POWER LOW NOISE ELECTRON TUBE
RADC-TDR-63-462 N64-14297 06-09

RESEARCH ON HIGH CAPACITY NONAQUEOUS SECONDARY BATTERY ANODE AND CATHODES
NASA-CR-53087 N64-16736 08-06

BATTERIES USING LIQUID AMMONIA AS ELECTROLYTIC SOLVENT WITH MAGNESIUM ANODE AND MERCURIC SULFATE OR SILVER CHLORIDE CATHODES N64-17422 09-06

THERMIONIC CATHODE MATERIALS FOR CONVERSION OF FISSION HEAT TO ELECTRICAL ENERGY
NASA-CR-53220 N64-17589 09-06

EVALUATION OF CATHODE MIX, SEPARATOR PAPER, CAN MATERIAL, AND CATHODE MOLDING PARAMETERS FOR LOW TEMPERATURE ALKALINE-MANGANESE DIOXIDE BATTERY
AD-433225 N64-17622 09-06

ELECTRON GUNS UTILIZING COLD HOLLOW CATHODES
N64-17730 09-09

HIGH PERFORMANCE COLD CATHODE FLASH X-RAY TUBE
CR-6 N64-19802 12-23

MERCURY POOL CATHODE AS ELECTRON SOURCE FOR HIGH POWER SWITCHING ELEMENT
RADC-TDR-64-97 N64-20031 13-09

METAL-INSULATOR-METAL SANDWICH AS ELECTRON SOURCE FOR USE AS TUNNEL CATHODE IN ELECTRON TUBES
AD-437273 N64-20156 13-25

HYDROGEN EMBRITTLEMENT OF ALPHA-TITANIUM ALLOYS DURING CATHODE POLARIZATION N64-20916 14-18

LOW NOISE MICROWAVE AMPLIFICATION BY USE OF TUNNEL CATHODE
RADC-TDR-64-116 N64-21176 14-09

PHYSICAL PROPERTIES OF PHOTOEMITTING MATERIALS AND PHOTOCATHODE PRODUCTION BY MOLECULAR BEAM DEPOSITION
AD-439853 N64-21233 14-25

HOT DRY PRESSED SILVER CHLORIDE CATHODES FOR AMMONIA BATTERY AND ORGANIC CATHODES FOR AQUEOUS ELECTROLYTIC BATTERY
NOLC-597, SUPPL. N64-22088 15-06

HIGH IMPEDANCE CATHODE FOLLOWERS FOR PIEZOELECTRIC PRESSURE GAUGE RECORDING
BRL-1474 N64-22523 15-09

ION SORPTION PUMP WITH COLD CATHODE
FTD-TT-63-702/1&2 N64-22657 15-15

COLD-CATHODE TUBE
FTD-TT-63-422/1&2 N64-23302 16-09

THERMAL ELECTRON EMISSION FROM HOLLOW OXIDE CATHODES
FTD-TT-63-367/1&2&4 N64-23427 16-09

OPTIMUM TRIODE INTEGRATION INTO X-BAND CIRCUITRY AND HIGH EMISSION DENSITY OXIDE CATHODE-TRIODE OCILLATORS FOR USE AT X-BAND
REPT.-10 N64-24074 16-09

EVAPORATION OF GOLD FROM GRID AND CROSSARM SURFACES AND DISTRIBUTION ON ELEMENTS OF RADIO TUBE WITH OXIDE CATHODE N64-24570 17-09

DEVELOPMENT OF PHOTOMULTIPLIER USING LARGE DIAMETER PHOTOCATHODE AND VENETIAN BLIND TYPE OF ELECTRON MULTIPLIER FOR HIGH CURRENT OPERATION
AD-440103 N64-25982 18-09

CATHODE SPOTS IN HIGH CURRENT ELECTRIC DISCHARGE
FTD-TT-64-152/1&2&4 N64-26730 18-09

ARC ATTACHMENT REGIONS ON CATHODE IN HIGH CURRENT GAS DISCHARGE
EOS-3240-FINAL N64-26917 18-24

PROBE CHARACTERISTICS OF ELECTRON AND ION CURRENTS AND ENERGY DISTRIBUTION OF NICKEL ATOMS DURING CATHODE SPUTTERING OF NICKEL BY MERCURY IONS
FTD-TT-64-380/1&2&4 N64-26995 19-23

ENERGY DISTRIBUTION OF NICKEL ATOMS DURING CATHODE SPUTTERING OF NICKEL BY MERCURY ION
N64-26997 19-23

SUMMARIES OF CONFERENCE REPORTS ON PHYSICS OF CATHODE ELECTRONICS
JPRS-25811 N64-27061 19-29

GRAVITY INDEPENDENT WATER-ELECTROLYTIC CELL WITH PALLADIUM-SILVER ALLOY CATHODE
AMRL-TDR-64-44 N64-27458 19-06

CATHODE FOR MERCURY ELECTRON-BOMBARDMENT THRUSTORS
AIAA PAPER-64-690 N64-28304 20-27

CATHODE DURABILITY IN MERCURY ELECTRON BOMBARDMENT ION THRUSTOR
AIAA PAPER-64-683 N64-28361 20-27

TUNNEL CATHODES FOR MICROWAVE TUBES - ELECTRON EMISSION INTO VACUUM FROM METAL-INSULATOR-METAL THIN FILM SANDWICHES
ASD-TDR-63-672 N64-28772 20-09

PERFORMANCE AND RELIABILITY OF INDIRECTLY-HEATED NICKEL MATRIX CATHODES AS ELECTRON SOURCES IN ION ENGINES
NASA-CR-54109 N64-29223 21-17

THIN FILM DEPOSITION TECHNIQUES FOR STUDY OF GOLD-CADMIUM SULFIDE-GOLD STRUCTURES AS CAPACITOR CATHODES IN MICROWAVE TUBES
IR-3 N64-29328 21-25

URANIUM AND ZIRCONIUM CARBIDES AS CATHODES FOR THERMIONIC SPACE REACTORS
NASA-CR-56280 N64-29371 21-19

THERMIONIC GENERATORS SUITABLE FOR LIQUID-METAL HEATING IN SPACE RADIATOR CONFIGURATIONS
PWA-2303 N64-29449 21-06

THIN FILM COLD CATHODES FOR MICROWAVE TUBES
IR-2 N64-29978 21-09

SPECTRAL ENERGY DISTRIBUTION OF SPUTTERED MERCURY ATOMS EMITTED FROM HOT CATHODES
FTD-TT-64-542/1&2&4 N64-30459 22-23

FIELD EMISSION CURRENT DENSITY OF SILICON CATHODES
FTD-TT-64-164/1&2 N64-30702 22-25

VAPORIZATION OF METAL BY MELTING WITH ELECTRON BEAM - PRODUCING ELECTRON BEAM FROM HOLLOW COLD CATHODE
JPRS-26891 N64-31314 22-17

THERMIONIC ENERGY CONVERTERS AND INVESTIGATION OF HIGH-EFFICIENCY PROCESS OF HOLLOW-CATHODE DISCHARGE
AFCRL-64-560 N64-31402 23-06

MASS TRANSPORT MECHANISMS OF OXYGEN IN THREE-PHASE ZONE OF CATHODE COVERED WITH THIN FILM OF ELECTROLYTE
AFCRL-64-539 N64-31824 23-07

POLARIZATION TESTS OF LITHIUM-NICKEL FLUORIDE CATHODE
QTPR-3 N64-31929 23-06

HOT CATHODE ION SOURCE FOR ISOTOPE SEPARATOR
N64-32009 23-10

THERMAL ANALYSIS OF ANODE AND CATHODE REGIMES IN ELECTRIC ARC COLUMN
NASA-CR-54119 N64-32691 23-13

CATHODE RAY TUBE
CF ELECTRON GUN
CF ELECTRON TUBE
PHOSPHORS USED IN CATHODE RAY TUBE SCREEN TO TRANSFORM ELECTRON BEAM ENERGY INTO LIGHT RADIATION
JPRS-18362 N64-10758 02-09

CATHODE-RAY TUBE INSTRUMENT SYSTEM FOR SYNTHESIZING & ANALYZING COCKPIT DISPLAYS
AMRL-TDR-63-84 N64-12074 03-15

CATHODE OSCILLOGRAPH FOR STATIC MAGNETIC CHARACTERISTICS STUDY OF FERROMAGNETIC MATERIALS
FTD-TT-63-435/1&2 N64-16368 08-23

SUBMICRON IRON AND COBALT PARTICLES PRODUCED BY ELECTRODEPOSITION INTO MERCURY CATHODE TUBE
ASD-TDR-63-423 N64-18568 11-18

IMAGE RECORDING AND DISPLAY OF CATHODE RAY TUBE INFORMATION BY SURFACE DEFORMATION OF REUSABLE PHOTOCONDUCTIVE THERMOPLASTIC FILM
RADC-TDR-63-532 N64-18866 11-15

REPRESENTING VALUES OF OPTIMAL NONUNIFORM CODES ON MASKS OF CATHODE-RAY DECODING TUBES
FTD-TT-61-461/1&2&4 N64-22411 15-09

FUNCTIONAL GENERATORS WITH CATHODE RAY TUBE
N64-23083 16-08

COLD-CATHODE TUBE
FTD-TT-63-422/1&2 N64-23302 16-09

PHOSPHOR EVALUATION, GUN DESIGN, AND ELECTRON OPTICS OF MINIATURE FIBER OPTIC CATHODE RAY TUBES
QPR-1 N64-31701 23-09

FUNCTION GENERATORS FOR CATHODE RAY TUBE
FTD-TT-64-379/1&2 N64-33521 24-09

CAUCHY PROBLEM
FUNCTIONS OF MANY VARIABLES AND SOLUTION OF CAUCHY PROBLEM FOR LINEAR EQUATION SYSTEMS
FTD-MT-63-302 N64-32456 23-20

CAUCHY-RIEMANN EQUATION
CF ANALYTIC FUNCTION
GENERALIZATIONS OF ARBITRARY ELLIPTIC SYSTEM OF LINEAR PARTIAL DIFFERENTIAL EQUATIONS AND CAUCHY-RIEMANN EQUATIONS IN SEVERAL VARIABLES
AROD-2446-1 N64-13040 04-20

CAVITATION
SA SUPERCAVITATION
CF WAKE
EVALUATION OF MAGNETOSTRICTION, FLOW, AND ROTATING DISK TESTING DEVICES FOR CAVITATION DAMAGE
AD-425725 N64-13302 04-11

CAVITATION AND EFFECTIVE LIQUID TENSION OF NITROGEN IN A TUNNEL VENTURI
NASA-TN-D-2088 N64-15160 07-11

OSCILLATORY LIFT & MOMENT DISTRIBUTION OF SURFACE-PIERCING FLEXIBLE CANTILEVER SUBCAVITATING HYDROFOILS
AD-422754 N64-15595 07-03

CAVITATION DAMAGE AND PERFORMANCE RESEARCH FACILITIES
NASA-CR-53119 N64-16756 08-10

WEAR MEASUREMENT OF METAL SPECIMENS SUBMITTED TO CONSTANT CAVITATION FIELD BY USING RADIOTRACER TECHNIQUES
NASA-CR-53112 N64-16763 08-08

DETERMINATION OF CAVITATION CONDITIONS FROM DENSITY PROFILES OF MERCURY IN VENTURI TUBES
NASA-CR-53113 N64-16764 08-11

HYDRODYNAMIC CHARACTERISTICS OF TRANSCAVITATING AND SUPERCAVITATING HYDROFOIL MODELS
XAR-A-45 N64-16862 08-03

INTERACTING INFLUENCE OF CORROSION ON CAVITATION DAMAGE STUDIED QUANTITATIVELY WITH MAGNETO-

STRICTIVE DEVICE
AD-433061 N64-17780 09-11

PROPULSIVE EFFICIENCY, CAVITATION CHARACTERISTICS, AND BOUNDARY LAYER INTAKE DESIGN FACTORS FOR HYDRODYNAMIC SHROUDED PROPELLER - PUMPJET
NOW-63-0209-C-7 N64-20904 14-17

TESTING MATERIALS FOR CAVITATION DAMAGE RESISTANCE
TR-233-3 N64-21328 14-11

FLUID MECHANICS - CAVITY PRODUCTION AND FLOW FIELD DUE TO CAVITATING HYDROFOIL UNDER FREE SURFACE
TR-001-12 N64-22535 15-11

FREQUENCY, DISSOLVED GAS, AND PRESSURE DEPENDENCE OF ACOUSTIC CAVITATION THRESHOLDS IN WATER
TM-57 N64-22544 15-11

MATERIAL RESISTANCE TO CAVITATION DAMAGE IN HANDLING LIQUID SODIUM IN SPACE POWER SYSTEMS
AIAA PAPER-64-363 N64-24904 17-18

PROPELLERS, CAVITATION, SHIP MANEUVERABILITY, AND HYDRODYNAMICS RESEARCH IN SWEDEN
SSPA-AR-8 N64-24961 17-10

CAVITATION HYSTERESIS IN FLOWING LIQUID
AD-436602 N64-25014 17-11

ULTRAHIGH SPEED CAVITATION TUNNEL
N64-25734 17-11

CAVITATION DAMAGE TESTING OF REFRACTORY MATERIALS IN LIQUID SODIUM AT HIGH TEMPERATURE
NASA-CR-56724 N64-26353 18-25

CAVITATION DAMAGE IN LIQUID SODIUM
NASA-CR-54071 N64-26470 18-18

VACUUM DRY BOX FOR CAVITATION DAMAGE TESTING OF LIQUID REFRACTORY METALS
NASA-CR-56843 N64-27278 19-18

RADIOACTIVE ISOTOPES FOR MEASUREMENT OF CAVITATION-EROSION DAMAGE ON METALS
NASA-CR-58072 N64-27829 19-18

HYDRODYNAMICS OF CAVITATION AND MECHANISMS OF CAVITATION DAMAGE
TR-233-1 N64-27853 19-18

MEASUREMENT OF PRESSURES AT ONSET AND TERMINATION OF CAVITATION USING HIGH SPEED RECIRCULATING WATER TUNNEL
ASME PAPER-63-AHGT-20 N64-28235 20-11

CAVITATION EROSION RESISTANCE AND RELATED MECHANICAL PROPERTIES OF HYDROFOIL STRUCTURAL ALLOYS AND COATINGS
USNASL-9110-P-14 N64-29578 21-18

MATERIAL CAVITATION BY CONTINUOUS OSCILLATION WITH MAGNETOSTRICTIVE TRANSDUCER IN CAVITATING LIQUID OF VARIOUS TEMPERATURES
REPT.-85-27 N64-30915 22-18

UNSTEADY CAVITY FLOW ABOUT THIN HYDROFOILS
TR-119-5 N64-31028 22-11

COMPUTER PROGRAM SUBROUTINES FOR INVERSE PROBLEM OF LINEARIZED FULLY CAVITATING HYDROFOIL THEORY
RM-3563-PR N64-31971 23-20

HYDROELASTIC FLUTTER OF FINITE SPAN CAVITATING HYDROFOILS
REPT.-64-12 N64-32584 23-33

CAVITATION FLOW
CAVITATION FLOW PAST HYDROFOILS WITH LARGE CAMBER AT ARBITRARY ANGLES OF ATTACK
T.R. 17 N64-15944 07-03

AXIAL FLOW PUMP ROTOR WITH BLADE TIP DIFFUSION FACTOR OF 0.43 - CAVITATION FLOW CONDITIONS
NASA-TN-D-2295 N64-19726 12-17

WATER TUNNEL OBSERVATIONS ON PLANO-CONVEX HYDROFOIL FLOW UNDER NONCAVITATING AND CAVITATING CONDITIONS
E-79-6 N64-20567 13-0

TENSIONS IN LIQUID ON VERGE OF CAVITATION IN FLOW AND NONFLOW SYSTEMS N64-26468 18-1

HYDROELASTIC STABILITY OF PARTIALLY CAVITATED HYDROFOILS BY APPLICATION OF QUASI-STEADY FLOW
REPT.-64-10 N64-27708 19-1

SYMMETRIC WEDGE FLOW, PARTIALLY CAVITATING HYDROFOILS, UNSTEADY CAVITY FLOW, AND SUPERCAVITATING HYDROFOILS
AD-600144 N64-28026 20-1

HYDROFOIL PROFILE CAVITATION TESTS TO ACCELERATE FLOW CASCADE
REPT.-142 N64-31431 23-1

HIGH HEAD KAPLAN TURBINE RESEARCH - HYDRAULIC EFFICIENCY AND CAVITATION PERFORMANCE
REPT.-144 N64-31433 23-1

CAVITY
PRELIMINARY DESIGN ANALYSIS OF BRAYTON CYCLE CAVITY RECEIVER USING LITHIUM FLUORIDE
NASA-CR-52390 N64-10140 01-17

SIMPLIFYING THEORY OF OPTICAL RESONATORS TO ANALYZE COMPLEX CAVITIES - LASER THEORY
AD-423698 N64-12993 04-2

SPHERICAL SHOCK WAVES AND CAVITY FORMATION IN METALS WITH HYPERVELOCITY IMPACT
N64-13526 05-2

VENTILATION STATE AND CAVITY FORMATION BEHIND SURFACE-PIERCING ROD IN FREE SURFACE WATER TUNNEL AND TOWING TANK
E-110.1 N64-18582 11-1

TUNABLE RESONANT COAXIAL MICROWAVE CAVITY - DESIGN PROCEDURE AND CONSIDERATIONS
AFCRL-64-58 N64-18793 11-2

THERMAL RADIATION ABSORPTION IN RECTANGULAR GROOVE CAVITIES
ASME PAPER-62-WA-52 N64-19255 11-2

THUNDERSTORM EXCITATION OF RESONANT CAVITY BETWEEN EARTH AND IONOSPHERE N64-19703 12-1

EARTH-IONOSPHERE CAVITY RESONANCES AND EFFECT OF LOWER D-LAYER N64-19704 12-1

MAGNETIC FIELD VARIATIONS IN EARTH-IONOSPHERE RESONANT CAVITY N64-19706 12-1

ANALYSIS OF MULTIREFLECTOR OPTICAL RESONATORS USING GEOMETRICAL OPTICS AND SELF-CONSISTENT FIELD TECHNIQUES
AFCRL-64-161 N64-20087 13-2

EFFECT OF FREE SURFACE ON SHAPE OF VENTILATED CAVITY PRODUCED BY CIRCULAR PLATE
REPT.-E-118.15 N64-21365 14-1

PROPAGATION IN ABSORBENT MATERIAL LINED CAVITIES N64-22842 16-0

CAVITY EMITTER EXPERIMENTATION N64-22990 16-0

RESONANT CAVITY METHOD FOR MEASURING LIQUID LEVEL IN METAL VESSEL - LEVEL GAUGE
FTD-TT-63-562/1&2&4 N64-23304 16-1

VIBRATIONS OF VISCOUS LIQUIDS IN CYLINDRICAL CAVITY IN HORIZONTAL MOTION N64-23564 16-1

NEUTRON FLUX DISTRIBUTIONS MEASURED IN SYSTEM OF LARGE SPHERICAL CAVITY IN WATER
NASA-CR-54110 N64-26349 18-2

MOUNTING AND TUNING MECHANISM FOR INCORPORATING SOLID CAVITY INTO HYDROGEN MASERS
NASA-CR-58644 N64-29401 21-2

TENSOR GREEN FUNCTION OF RECTANGULAR WAVEGUIDE AND CAVITY N64-29459 21-0

TRANSIENT WAVE SCATTERING FROM CIRCULAR CYLINDRICAL CAVITY IN INFINITE ELASTIC SOLID
ATD-TDR-63-3052 N64-30887 22-25

PLETHYSMOGRAPHY OF HUMAN VASCULAR SYSTEM RESPONSE TO COLD STIMULUS IN NOSE CAVITY
N64-31104 22-16

RESONANT MODES AND DIELECTRIC CONSTANTS OF LARGE RUBY RODS IN CYLINDRICAL CAVITIES
PIBNRI-1219-64 N64-32269 23-25

CORTISONE ORAL GLUCOSE TESTS OF RELATIONSHIP OF TOOTH CAVITY INCIDENCE AND GLUCOSE LEVEL IN YOUNG ADULT MALE HUMANS
SAM-TDR-64-57 N64-32981 24-16

CDC 1604 COMPUTER
PROGRAMMING MANUAL FOR USE OF CONTROL DATA 1604 COMPUTER USING ALGOL COMPILER
ORNL-3460 N64-15338 07-20

CELESTIAL BODY
EXISTING RELATIONSHIP OF RADIATION BELTS TO CELESTIAL BODIES
JPRS-17582 N64-10480 01-28

ACCELERATION OF CELESTIAL BODY FROM CURVILINEAR MOTION OF CENTER OF GRAVITY OF TWO-BODY SYSTEM
NH-TRANS-419 N64-11627 03-04

MAGNETOGASDYNAMICS AND PROBLEMS OF ORIGIN AND EVOLUTION OF CELESTIAL BODIES N64-19337 12-05

SIMULTANEOUS COMPUTATION OF SECULAR AND RESONANCE EFFECTS ON ORBITAL MOTION OF CELESTIAL BODIES
NASA-TN-D-2152 N64-22749 16-05

CELESTIAL BODIES IN SOLAR SYSTEM
N64-24492 17-05

APPLICATION OF HALPHEN METHOD FOR SECULAR PETURBATIONS TO DETERMINATION OF LONG RANGE EFFECTS IN MOTIONS OF CELESTIAL BODIES
NASA-TR-R-194 N64-28340 20-05

HAYSTACK POINTING COMPUTER PROGRAM FOR OBTAINING CELESTIAL COORDINATES OF SUN
ESD-TDR-64-355 N64-30663 22-05

VACUUM SPECTROSCOPY FOR CHEMICAL COMPOSITION OF CELESTIAL BODIES
JPRS-26769 N64-32128 23-05

CELESTIAL MECHANICS
SA PERTURBATION THEORY
CELESTIAL MECHANICS - DIFFERENTIAL EQUATIONS DEFINED AS STABLE IN JACOBIAN SENSE WHEN CORRESPONDING VARIATIONAL EQUATIONS ARE STABLE
NH-TRANS-426 N64-11572 03-20

CELESTIAL MECHANICS FOR SPACE FLIGHT GUIDANCE - TWO-BODY PROBLEM
REPT.-27 N64-12425 04-05

PROGRAM FOR COMPUTING STANDARD COORDINATES OF SUN
BRL-MEMO-1517 N64-13322 04-05

QUALITATIVE ANALYSIS OF MOTIONS IN CELESTIAL MECHANICS
NH-TRANS-357 N64-14439 06-05

ESTIMATING PERTURBATION OF HYPERBOLIC MOTION IN THREE-BODY PROBLEM - CELESTIAL MECHANICS
NH-TRANS-363 N64-14440 06-05

CONSTRUCTION OF NEWCOMB OPERATORS ON DIGITAL COMPUTERS FOR DEVELOPMENT OF PLANETARY DISTURBING FUNCTION
NASA-CR-55844 N64-16768 08-05

METHOD OF AVERAGES IN CELESTIAL MECHANICS - FORMULAS FOR EFFECTS OF OBLATE PLANET ON SATELLITE ORBIT
NASA-CR-53530 N64-18217 10-05

APPLICATION OF CELESTIAL MECHANICS TO ARTIFICIAL SATELLITE ORBIT CALCULATIONS USING ORBIT PERTURBATIONS
NASA-TM-X-51584 N64-18473 10-05

CELESTIAL MECHANICS - SURVEY OF SATELLITE ORBIT COMPUTATION METHODS
ESD-TDR-63-477 N64-21679 15-29

CELESTIAL MECHANICS - ORBIT PERTURBATION STUDY BY KRYLOV-BOGOLIUBOFF-MITROPOLSKI METHOD
AFOSR-64-0132 N64-21681 15-05

PSEUDO-DIURNAL TRANSIT TECHNIQUE OF SPACE NAVIGATION IN INTERPLANETARY MIDCOURSE - CELESTIAL MECHANICS
NASA-CR-56288 N64-22473 15-22

COSMOLOGY AND CELESTIAL MECHANICS
JPRS-24851 N64-23177 16-29

RELATION BETWEEN COMET-SHAPED NEBULA AND COMET-SHAPED INCLUSIONS IN DIFFUSED NEBULA - CELESTIAL MECHANICS N64-23181 16-29

CELESTIAL MECHANICS OF MOON AND PROBLEMS OF EARTH MOON TRAJECTORY N64-23644 16-29

MATHEMATICS OF FLUID FLOW, ELECTROMAGNETIC WAVE PROPAGATION, CELESTIAL MECHANICS, CONTROL THEORY, AND SYSTEM RELIABILITY ANALYSIS - BIBLIOGRAPHY
N64-24380 17-20

CELESTIAL MECHANICS N64-24494 17-05

MATHEMATICS OF MOTION STABILITY IN CLASSICAL AND CELESTIAL MECHANICS
FTD-MT-64-175 N64-25442 17-23

APPROXIMATION METHOD TO DEFINE TWO POINT BOUNDARY VALUE PROBLEM OF CELESTIAL MECHANICS
R64SD57 N64-27325 19-20

ANALYTICAL THEORY OF HYPERBOLIC AND ELLIPTIC MOTION ELEMENT PERTURBATIONS IN CELESTIAL MECHANICS
NASA-TT-F-8943 N64-30837 22-05

PHYSICAL AND SATELLITE GEODESY APPLICATIONS TO CELESTIAL MECHANICS AND ORBIT PREDICTION
AFCRL-64-566(I) N64-30943 22-12

ORDINARY DIFFERENTIAL EQUATIONS AND APPLICATION TO CELESTIAL MECHANICS PROBLEM SOLVING
FTD-MT-63-312 N64-33027 24-20

CELESTIAL NAVIGATION
GUIDANCE & CONTROL CELESTIAL SENSOR DEVELOPMENT
NASA-CR-53005 N64-13288 04-22

CELESTIAL OBSERVATION
OBSERVATION INSTRUMENTS USED AS REAL TIME AND DAYLIGHT GEODETIC STELLAR CAMERAS
AFCRL-64-172 N64-24350 17-15

OBSERVATIONS OF RED SPOT ON JUPITER
N64-24998 17-05

DETERMINATION OF ACCURACY OF MANUALLY RECORDING CELESTIAL-BODY-TRANSIT TIMES
NASA-TN-D-2433 N64-27925 20-05

SPECTROSCOPIC OBSERVATION EXTENSION OF SYMBIOTIC STARS BY INCREASING RESOLUTION IN WAVELENGTH RANGE AND EXTENDING SPECTROSCOPIC INVESTIGATION TO PHOTOGRAPHIC INFRARED
NASA-RP-268 N64-31569 23-05

CELL
S BIOLOGICAL CELL
S ELECTROCHEMICAL CELL
S GAS CELL
S HEXAGONAL CELL
S KNUDSEN CELL
S MAGNESIUM CELL
S PHOTOCONDUCTIVE CELL
S PHOTOELECTRIC CELL
S PHOTOVOLTAIC CELL
S SOLAR CELL

CELL DIVISION
STATISTICAL ANALYSIS OF SUPPRESSING MECHANISM OF

CELL DIVISION UNDER INFLUENCE OF IONIZING RADIATION N64-16904 09-16

BIOCHEMICAL MECHANISMS OF RADIATION-INDUCED DISTURBANCE OF CELL DIVISION N64-16905 09-16

CELLULOSE
SA NITROCELLULOSE
SA PAPER
CF GLYCOGEN
ELECTRON MICROSCOPIC STUDY OF STRUCTURE OF CELLULOSE
JPRS-22156 N64-11361 02-19

HYDROGEN BOND AS PREDOMINANT FACTOR IN INTER- AND INTRAFIBER BONDING IN CELLULOSE N64-16918 09-19

ALKALINE BATTERY CELLULOSE SEPARATOR
NASA-CR-56084 N64-20630 13-06

GRAFT COPOLYMER OF POLYSTYRENE AND CELLULOSE ACETATE
AROD-3630-6 N64-21467 14-07

TEMPERATURE MEASUREMENT OF THERMALLY IRRADIATED SURFACE OF ALPHA CELLULOSE
DASA-1467 N64-22966 16-26

MISCELLANEOUS WASTE EFFECT ON MESOPHILIC ACTIVATED SLUDGE CELLULOSE - METABOLIC WASTE
SAM-TDR-64-25 N64-27494 19-16

PREPARATION AND PROPERTIES OF CELLULOSE NITRATE-ACETATE MIXED ESTERS
PA-TR-3105 N64-27956 20-07

IGNITION AND ABLATION RESPONSES OF CELLULOSIC MATERIALS TO HIGH RADIANT HEAT LOADS
WSS/CI PAPER-64-8 N64-32930 24-26

CENTAUR LAUNCH VEHICLE
LIQUID HYDROGEN UTILIZED AS PROPELLANT FOR SPACE VEHICLES LIKE CENTAUR - TRANSPORATION, SLOSHING, STORAGE, MANUFACTURE, AND INSULATION SYSTEMS
AE62-0774 N64-10128 01-26

SECOND CENTAUR FLIGHT TEST SCHEDULE N64-10375 01-31

SHEAR MODULUS AND SHEAR STRENGTH OF STRUCTURAL MATERIAL FOR CENTAUR VEHICLE THERMAL SHIELDING
FTDR-3048 N64-20048 13-18

QUALITY CONTROL OF LIGHTWEIGHT INSULATION PANELS FOR CENTAUR VEHICLE
MR-SE-014 N64-20342 13-13

STRENGTH TEST OF SANDWICH CONSTRUCTION LIGHTWEIGHT INSULATION PANELS FOR CENTAUR VEHICLE TO DETERMINE DESIGN ALLOWABLE STRESSES
SSR-1-63 N64-20343 13-13

CENTAUR HIGH ENERGY SPACE VEHICLE
AIAA PAPER-64-294 N64-23351 16-31

EXPERIMENTAL SLOSHING CHARACTERISTICS AND MECHANICAL ANALOGY OF LIQUID SLOSHING IN SCALE MODEL CENTAUR LIQUID OXYGEN TANK
NASA-TM-X-999 N64-26838 18-11

MECHANICAL PROPERTIES OF PLASTIC FOAMS AND HONEYCOMBS FOR USE AS BACKUP CONFIGURATIONS FOR CENTAUR INTERMEDIATE BULKHEAD
MRG-312 N64-27212 19-19

RL-10 ROCKET ENGINE FOR CENTAUR UPPER STAGE SPACE VEHICLE
PWA-ER-950 N64-28697 20-27

CENTRAL NERVOUS SYSTEM
EFFECTS OF CHRONIC EXPOSURE TO ORGANOPHOSPHATE INSECTICIDES ON CENTRAL NERVOUS SYSTEM OF HUMAN BODY
CARI-63-24 N64-17252 09-09

TUNING BETWEEN CENTRAL SENSORY PATHWAYS AND SENSE ORGANS - AUDITORY DISCRIMINATION N64-18831 11-16

PROCESS OF CORRECTLY SIGNALLING LOCATION OF STIMULUS TO CENTRAL NERVOUS SYSTEM N64-18833 11-16

MATHEMATICAL METHOD FOR INVESTIGATING IMPULSE ACTIVITY OF CENTRAL NEURONS OF BRAIN N64-19440 12-16

LONG-LASTING TRANSVERSE G-FORCE EFFECT ON CENTRAL NERVOUS SYSTEM OF ANIMALS N64-23766 16-16

EQUIPMENT FOR COMPLEX NEUROLOGICAL-PHYSIOLOGICAL INVESTIGATION OF CENTRAL NERVOUS SYSTEM
JPRS-26316 N64-28426 20-15

BIOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL STUDIES OF CENTRAL NERVOUS SYSTEM - CONDITIONED REFLEX
JPRS-26060 N64-28446 20-16

EFFECTS OF IONIZING RADIATION ON CENTRAL NERVOUS SYSTEM IN VIVO AND AT THE CELLULAR LEVEL
NASA-CR-58974 N64-33095 24-16

CENTRAL NERVOUS SYSTEM DEPRESSANT
S MORPHINE

CENTRAL NERVOUS SYSTEM STIMULANT
S ATROPINE

CENTRIFUGAL FORCE
FORTRAN PROGRAM FOR DESOXYRIBONUCLEIC ACID MOLECULAR WEIGHTS FROM VISCOSITY & CENTRIFUGAL SEDIMENTATION
LA-2964 N64-10318 01-07

STRESS CALCULATION FOR OPEN CYLINDRICAL SHELL UNDER CENTRIFUGAL FORCES
RSIC-155 N64-20458 13-33

CENTRIFUGAL FORCE EXTENSION OF TELESCOPING ANTENNAS ON HIGH SPIN RATE ROCKETS
AFCRL-64-430 N64-26222 18-04

CENTRIFUGE
PILOT BIOMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR MONITORING PERFORMANCE DURING CENTRIFUGE SIMULATIONS OF SPACE FLIGHT
NADC-MA-6308 N64-12256 03-16

HUMAN CENTRIFUGES & PHYSIOLOGICAL EFFECTS OF ACCELERATION - HUMAN PERFORMANCE & TOLERANCE, AND ANIMAL STUDIES
AGARDOGRAPH-48 N64-13451 05-01

HUMAN CENTRIFUGE FOR TESTING EFFICIENCY IMPAIRMENT UNDER ACCELERATION N64-13452 05-16

HUMAN CENTRIFUGE - INSTRUMENTATION IN ACCELERATION STRESS TESTING N64-13456 05-15

CENTRIFUGE AS FLIGHT SIMULATOR - RESTRAINT SYSTEMS AND PHYSIOLOGICAL REACTION TO ACCELERATION STRESS N64-13457 05-16

ACCELERATION TOLERANCES ON CENTRIFUGE - ABILITY OF MAN TO PERFORM TOTAL TASK IN TOTAL ENVIRONMENT N64-13458 05-16

CENTRIFUGES FOR STUDYING LONG TERM ACCELERATION STRESS ON MAN AND ANIMALS N64-13465 05-16

WATERS CUVETTE MONITORING OF HUMAN ARTERIAL OXYGEN CONSUMPTION DURING TRANSVERSE ACCELERATION
NADC-MA-6323 N64-13831 05-16

FIVE-STAGE CENTRIFUGAL CONTRACTOR FOR EXTRACTING URANIUM FROM TRI-BUTYL PHOSPHATE SOLUTION
DP-841 N64-13945 05-17

HUMAN TOLERANCE AND PILOT PERFORMANCE DURING LONG ACCELERATIONS IN CENTRIFUGE N64-15106 07-14

CORIOLIS EFFECTS IN VIBRATION AND SPIN TESTING IN CENTRIFUGE
NASA-TN-D-1914 N64-21422 14-10

HARMONIC ANALYSIS OF HUMAN PERFORMANCE OF TRACKING IN T-33 AIRCRAFT, IN CENTRIFUGE SIMULATION, AND IN

STATIONARY SIMULATION
NADC-AC-6406 N64-28696 20-14

CONCENTRATION, ROTOR SPEED AND BOUNDARY HEIGHT EFFECTS ON ULTRACENTRIFUGAL SEDIMENTATION RATES OF T SUB 4-BACTERIOPHAGE DEOXYRIBONUCLEIC ACID
LA-3098 N64-29526 21-07

MEDICAL SAFETY MEASURES DURING MANNED CENTRIFUGE EXPERIMENTS
NADC-ML-6410 N64-30169 21-16

CENTRIFUGE HISTORY IN AEROSPACE MEDICINE
N64-33482 24-10

CENTRIPETAL FORCE
CENTRIPETAL ENERGY TRANSPORT DURING SPHERICALLY SYMMETRIC IMPLOSIONS IN FLUIDS
DVL-306 N64-15031 07-11

COMPARISON OF SYMPTOMATOLOGY IN HEALTHY PERSONS AND SUBJECTS WITH LOSS OF LABYRINTHINE FUNCTION WHEN EXPOSED TO UNUSUAL CENTRIPETAL FORCES
NASA-CR-55621 N64-15347 07-14

TRAJECTORIES OF VARIABLE MASS POINT IN CENTRIPETAL FORCE FIELD
JPRS-23629 N64-16546 08-29

FORMULAS FOR COMPUTATION OF BASIC DIMENSIONS OF CENTRIPETAL GAS TURBINES
FTD-TT-63-682/1&2&4 N64-21952 15-06

LOSS OF LABYRINTHINE FUNCTION WHEN EXPOSED TO CENTRIPETAL FORCE - MOTION SICKNESS
N64-22432 15-14

CEPHEID
THEORY OF OSCILLATION OF CEPHEID VARIABLE STARS
N64-19456 12-05

STELLAR PULSATION FOR RR LYRAE AND CEPHEID TYPE VARIABLE STARS
N64-27197 19-05

CERAMICS
SA CERMET
CF DIELECTRIC MATERIAL
CF NONMETAL
CF REFRACTORY MATERIAL
THERMAL NONDESTRUCTIVE EVALUATION OF METALLIC AND CERAMIC STRUCTURES - INFRARED DETECTION
ASD-TDR-62-385 N64-10251 01-23

METAL & CERAMIC MATERIALS FOR REACTORS
ORNL-3470 N64-10262 01-01

PROPERTIES OF METAL-CERAMIC ELECTRIC CONTACTS AS BASIS FOR POWDER METALLURGICAL STUDY OF HIGH VOLTAGE BREAKING SYSTEMS - WEARING CONDITIONS
JPRS-18926 N64-10648 01-09

EXPERIMENTAL METAL-CERAMIC ROLLING MILL
JPRS-19253 N64-10652 01-17

SINTERED POWDER METAL-CERAMIC FRICTION MATERIALS FOR CLUTCH AND BRAKE USE - COPPER, TIN, SILICA, AND GRAPHITE
JPRS-20291 N64-10841 02-19

EMITTANCE MEASUREMENT FOR TEMPERATURES TO 3000-DEG F TO PROVIDE DATA ON THERMAL RADIATION OF CERAMICS FOR REENTRY VEHICLE USE
ASD-TR-61-706, VOL. 2 N64-10965 02-13

EMITTANCE MEASUREMENTS OF CERAMIC COATINGS UP TO 2900 DEG KELVIN
N64-10967 02-13

REMOTE MICROSAMPLING OF IRRADIATED CERAMIC MATERIALS BY MICRODRILLING FOR USE IN FISSION PRODUCT MIGRATION
HW-79122 N64-11374 02-19

THEORETICAL BASIS FOR SYNTHESIS OF GLASS-CERAMIC MATERIALS FROM METALLURGICAL SLAG
FTD-TT-63-753/1&2 N64-11544 03-19

ROLLING CONTACT FATIGUE PROCESS IN CRYSTALLIZED GLASS CERAMICS
NASA-TN-D-2082 N64-11557 03-19

DIRECT CURRENT POWER SUPPLY FOR TRACING HYSTERESIS LOOP OF FERROELECTRIC CERAMIC MATERIALS
SC-RR-260-63 N64-11631 03-06

TITANIUM HYDRIDE METAL TO CERAMIC SEAL
MATT-228 N64-12091 03-17

REFRACTORY-CERAMIC PROPERTY DATA FOR DESIGNERS OF AEROSPACE STRUCTURES
RTD-TDR-63-4102 N64-12269 03-19

ALUMINUM OXIDE CERAMIC MICROMINIATURE TRANSISTOR PACKAGE
AD-403859 N64-13116 04-09

CERAMIC MOLDING DIES, LAYUP BLOCKS, AND HOT SIZING DIES
GMRI-660.03 N64-13887 05-17

PRODUCTION APPLICATION OF CERAMIC TOOLS
GMRI-660.02 N64-13888 05-15

PRECISION VOLUME CERAMIC RESISTOR
AD-426117 N64-14034 05-19

POSTIRRADIATION RELEASE OF XENON-133 FROM OXIDE CERAMICS
BMI-1651 N64-14050 05-23

ELASTIC MODULI AND TENSILE STRENGTH OF GLASSES AND CERAMIC MATERIALS
N64-14734 06-19

CONDUCTIVITY AND TRANSPORT NUMBERS FOR ZIRCONIUM OXIDE-CALCIUM OXIDE CERAMIC SYSTEMS
FTD-TT-62-1275/1&2&4 N64-14907 06-23

SOLID GLASS AND CERAMIC EXTERNAL PRESSURE VESSELS
AD-428905 N64-14968 06-33

DEFLECTRON ENGINEERING - REDESIGN OF NARROW-ANGLE DEFLECTRON, PROCESSING CERAMIC SUBSTRATE CONES, & VACUUM-METALLIZING TECHNIQUES
AD-403324 N64-15369 07-09

RADIATIVE HEAT TRANSFER IN LOW DENSITY CERAMICS WITH BARRIER PHASE IN REFRACTORY STRUCTURE - THERMAL INSULATING MATERIAL
NASA-CR-55559 N64-15533 07-19

CERAMIC PROPERTIES OF ZIRCONIUM DIOXIDE-SILICON DIOXIDE SYSTEM
FTD-TT-63-475/1&2 N64-16370 08-19

VOLTAGE-TIME BEHAVIOR OF CERAMIC ELECTRETS WITH CLOSELY FITTING ELECTRODES
FTD-TT-62-1925/1&2&4 N64-16408 08-19

HOT FORMING AND HEAT TREATMENT OF CERAMICS
FTD-TT-63-146/1 N64-16479 08-17

CERAMIC FORMING PROCESSES AND PARTICLE CHARACTERISTICS
RTD-TDR-63-4069 N64-16576 08-17

PROPERTIES OF PARTICLES AND ASSEMBLIES OF PARTICLES - CERAMICS N64-16577 08-23

COLD FORMING PROCESSES - CERAMICS
N64-16578 08-17

HOT FORMING PROCESSES - CERAMICS
N64-16579 08-17

MELT FORMING PROCESSES - CERAMICS
N64-16580 08-17

FORMING METHODS - CERAMICS N64-16581 08-17

BIBLIOGRAPHY OF CERAMIC FORMING PROCESSES
N64-16583 08-17

CERAMIC DIELECTRICS
AD-430912 N64-16609 08-19

VERY FINE CRYSTALLINE CERAMIC PRODUCED BY

DEVITRIFICATION OF BARIUM TITANATE
N64-16610 08-19

LOW LOSS BORON NITRIDE CERAMIC DIELECTRICS
N64-16611 08-19

ANISOTROPIC AND ISOTROPIC TRANSPARENT POLY-CRYSTALLINE CERAMICS
N64-16612 08-19

LANTHANUM ALUMINO SILICATE CERAMIC DIELECTRICS
N64-16613 08-19

HOT EXTRUSION OF CERAMIC MATERIALS
N64-16614 08-17

THERMIONIC CONVERTER DEVELOPMENT - SPACING, CERAMICS, AND LEAKAGE
GEST-2029 N64-16793 08-06

JOINING PROPERTIES OF NIOBIUM, MOLYBDENUM, AND NICKEL ALLOYS AND CERAMIC-TO-METAL JOINING
AD-431252 N64-16830 08-18

MICROWAVE FREQUENCY DIELECTRIC MEASUREMENTS OF NONMETALLIC INORGANIC REFRACTORY MATERIALS FOR RADOME APPLICATIONS AT ELEVATED TEMPERATURES
AD-432141 N64-16846 08-19

FISSION GAS DIFFUSION AND RADIATION DAMAGE IN UNFUELED CERAMIC MATERIALS
N64-16999 09-23

CERAMICS RESEARCH, FUEL DEVELOPMENT, TESTING, AND ANALYSIS - ABSTRACTS
HW-76303 N64-17221 09-19

ALUMINA CERAMICS FOR AVIATION TECHNOLOGY
JPRS-23706 N64-17231 09-19

INFLUENCE OF MICROSTRUCTURE ON MECHANICAL PROPERTIES OF CERAMICS
HR-63-264 N64-17441 09-25

BRITTLE FRACTURE OF CERAMICS
SSD-TDR-63-382 N64-17614 09-25

ELECTRIC PROPERTIES OF ALUMINUM OXIDE CERAMIC COMPOSITIONS INCLUDING SAPPHIRE, SINTERED SINGLE CRYSTAL, AND POLYCRYSTALLINE MATERIAL
DS-136 N64-18384 10-19

HEARTBEAT MEASUREMENT OF BIRD EMBRYOS WITH MICROMETEORITE TRANSDUCER AS BALLISTOCARDIOGRAPH
NASA-SP-5007 N64-19015 11-16

RADIATION, GAS DIFFUSION, AND FISSION PRODUCT RESEARCH ON BERYLLIUM OXIDE, CERAMICS, AND REFRACTORY METALS
GEMP-34A N64-19016 11-23

CERAMIC COATINGS FOR INSULATED WIRES EXPOSED TO ALKALI METAL VAPORS - CORROSION PREVENTION
APL-TDR-64-42 N64-19736 12-19

DESIGN TECHNIQUES FOR STRUCTURALLY SUPPORTED CERAMIC RADOMES - PRESSURE DRAG, ELECTRIC, AND PHYSICAL PROPERTIES
IER-1 N64-20165 13-08

LIQUID ALKALI METAL REACTION WITH NONMETALLIC SOLIDS - CERAMICS
N64-20794 14-19

PRODUCTION ENGINEERING ON CERAMIC RADIO FILTERS
REPT.-4 N64-21469 14-09

THERMAL SHOCK STUDIES OF CERAMIC MATERIALS
NRL-6029 N64-21683 15-19

REACTOR FUEL ELEMENT PROCESSING AND MATERIALS TESTING - CERAMIC MATERIALS
HW-76304 N64-21739 15-17

CERAMIC SYSTEMS FOR MISSILE STRUCTURAL APPLICATION
AD-431544 N64-21787 15-19

EFFECT OF COMPOSITION, HEAT, AND ELECTROLYTIC TREATMENT ON DIELECTRIC PROPERTIES OF STEATITE CERAMICS
FTD-TT-62-1800/1&2&4 N64-21926 15-19

METALLOGRAPHIC AND RADIOGRAPHIC TECHNIQUES FOR EVALUATION OF CERAMIC NUCLEAR FUEL ELEMENTS
ORNL-3577 N64-22111 15-19

GROWTH TWINNING IN BARIUM TITANATE CERAMICS AND SINGLE CRYSTAL INTERACTIONS
AD-434228 N64-22205 15-19

REFRACTORY-CERAMIC PROPERTIES OF NONMETALLIC INORGANIC CRYSTALLINE MATERIALS FOR SPACE APPLICATIONS
RTD-TDR-63-4102, SUPPL. 1 N64-22314 15-19

CERAMICS, GLASS, AND PYROCERAM
FTD-TT-63-269/1&2 N64-23093 16-01

HIGH STRENGTH CERAMICS FOR HIGH VOLTAGE INSULATORS
N64-23095 16-09

GLASS, CERAMICS, AND REFRACTORY MATERIALS
FTD-TT-63-688/1&2&4 N64-23184 16-19

CLAY AND GROG FOR INCREASING SAGGER QUALITIES OF CERAMICS
N64-23192 16-19

TEMPERATURE AND RAREFACTION EFFECTS ON EVAPORATION DURING CASTING OF CERAMICS AND PROPERTIES OF CAST CERAMICS
N64-23193 16-19

AGING AND FREEZING EFFECTS ON PLASTICITY OF CERAMIC PRODUCTS
N64-23194 16-19

INCREASE IN MECHANICAL STRENGTH AND PLASTICITY OF CERAMICS BY ADDITION OF ASH, CEMENT, AND GYPSUM
N64-23195 16-19

BERYLLIUM OXIDE CERAMICS AND OTHER CERMETS
FTD-TT-62-1664/1&2 N64-23406 16-19

NOISE EQUIVALENT POWER OF BARIUM TITANATE SINGLE CRYSTALS AND CERAMICS
NASA-CR-44 N64-24825 17-09

TENSILE STRENGTH OF BRITTLE MATERIALS - ALUMINUM OXIDE CERAMICS
ML-TDR-64-49 N64-25341 17-19

BRAZED REFRACTORY METAL HONEYCOMB SANDWICH PANELS, RESIN-IMPREGNATED POROUS CERAMICS, AND ABLATIVE CERAMIC COMPOSITE STRUCTURES
N64-25416 17-17

ROLE OF GRAIN BOUNDARY IN DEFORMATION OF CERAMIC MATERIALS
ASD-TDR-62-225, PT. III N64-25485 17-19

CERAMICS AND FUEL ELEMENTS
HW-81600 N64-26690 18-19

ELASTIC MODULI AND TENSILE STRENGTH OF SILICATE GLASSES AND OTHER CERAMIC MATERIALS
PR-4 N64-26691 18-19

CERAMICS RESEARCH PROJECTS
N64-27032 19-19

GLASS AND CERAMICS
FTD-TT-62-1667/1&2 N64-27044 19-19

PREPARATION AND MECHANICAL PROPERTIES OF PORCELAIN WITH MAXIMUM SINTERING TEMPERATURE
N64-27045 19-19

JOINTING OF METAL TO PORCELAIN FOR PRODUCTION OF ELECTRIC EQUIPMENT
N64-27046 19-17

PROBLEM OF SELECTING MATERIALS FOR MIRRORS AND FEASIBILITY OF USING CERAMICS
N64-27091 19-17

PHYSICS, CHEMISTRY, MATHEMATICS, ENGINEERING, METALLURGY, AND CERAMICS
AD-601472 N64-27497 19-01

STRESS ANALYSIS OF CERAMIC TO GLASS OR METAL SEAL
MATT-293 N64-28424 20-17

THERMAL AND PHYSICAL PROPERTIES OF CERAMIC MATRICES
IER-5 N64-28569 20-17

MECHANICAL DESIGN OF GAS-COOLED HIGH TEMPERATURE

NUCLEAR CERAMIC REACTORS, FOR USE IN DIRECT AIR CYCLE NUCLEAR TURBOJET AIRCRAFT
NASA-CR-52955 N64-29790 21-23

CERAMIC FLUXES IN WELDING OF ALLOYED STEELS
JPRS-26638 N64-30656 22-17

METAL-CERAMIC COMPOSITE MATERIALS FOR HIGH TEMPERATURE STRUCTURAL APPLICATION TO REENTRY VEHICLES
ML-TDR-64-583 N64-30929 22-18

ABSTRACTS ON BASIC AND APPLIED RESEARCH AND DEVELOPMENT PROGRAM IN METALS, CERAMICS, NON-METALS, AND ELASTOMERS
WADC-TR-53-373, SUPPL. 10 N64-30936 22-17

PRODUCTION ENGINEERING MEASURE FOR CERAMIC FILTERS
REPT.-5 N64-30967 22-17

SCAN HEAT AND HEAT SUPPORT TECHNIQUES FOR THERMAL INSPECTION OF NONDESTRUCTIVE METALLIC AND CERAMIC MATERIALS
ASD-TDR-62-385, PT. III N64-31939 23-17

RAW MATERIALS FOR REFRACTORY OXIDE CERAMICS
ML-TDR-64-110 N64-31969 23-17

FABRICATION, RANGES, AND TEMPERATURE COEFFICIENTS OF RESISTORS USING PALLADIUM AND SILVER DISPERSED IN CERAMIC MATRIX
IDR-5 N64-32618 23-17

BASIC MATERIALS RESEARCH - THEORETICAL AND EXPERIMENTAL STUDY OF METALS, CERAMICS, SEMICONDUCTORS, INORGANIC COMPOUNDS, POLYMERS, AND GLASSES
AD-420653 N64-32985 24-25

SCALE UP & THERMAL TESTING OF ZIRCONIUM-BORIDE-MOLYBDENUM-SILICIDE REFRACTORY CERAMIC COMPOSITE FOR LEADING EDGES OF HYPERSONIC VEHICLES
REPT.-2178-900204 N64-33655 24-34

MECHANICAL PROPERTIES OF COMPOSITE MATERIAL FORMED BY INFILTRATION OF POROUS CERAMIC WITH EPOXY RESIN
REPT.-1780-TR N64-33823 24-19

CEREBRAL CORTEX
CF BRAIN
CF NERVOUS SYSTEM
CORTICAL REGULATION OF WATER & SALT METABOLIC BALANCE
JPRS-22523 N64-12392 03-16

REGIONAL METABOLISM AND CIRCULATION OF CEREBRAL CORTEX AND EFFECT ON SELECTIVE VULNERABILITY TO ANOXEMIA N64-14587 06-16

EXTRACELLULAR ION MOTION IN CEREBRAL CORTEX N64-14590 06-16

ELECTRON MICROSCOPIC STUDY OF EARLY CHANGES IN NEURONS DUE TO HYPOXIDOSIS AND ULTRASTRUCTURAL ASPECTS OF NEURONAL NECROSIS IN CEREBRAL CORTEX N64-14592 06-16

PHOSPHOPROTEIN METABOLISM IN CEREBRAL CORTEX FUNCTIONING
AD-430174 N64-15955 07-16

BIOELECTRIC ACTIVITY OF VISUAL AND PARIETAL REGIONS OF CEREBRAL CORTEX STUDY BY X-RAY
FTD-TT-63-231 N64-22646 15-16

RESPONSES FROM AUDITORY CORTEX IN CATS N64-29594 21-16

PSYCHOLOGICAL PROBLEMS - SENSORIMOTOR PERFORMANCE IN AUTOMATIC CONTROL, VISUAL SIGNALING PARAMETRIC INFLUENCE ON MOTOR REACTION, ALGORITHMIC APPROACH TO LEARNING, AND EYE MOVEMENT CONTROL
JPRS-26014 N64-30321 22-14

PRE-MOTOR BRAIN SECTIONS IN EYE MOVEMENT CONTROL N64-30325 22-14

MORPHOLOGICAL CONNECTIONS AND RESPONSES OF VISUAL ANALYZER IN CEREBRAL CORTEX OF DOG N64-31462 23-16

CEREBROSPINAL FLUID
CF BRAIN
CF NERVOUS SYSTEM
STRUCTURE AND FUNCTIONS OF COMPONENTS OF BRAIN - NEURONS, VASCULAR CAPILLARY NETWORK, NEUROGLIA, & CEREBROSPINAL FLUID
IPST-990 N64-22203 15-16

CERENKOV COUNTER
LUNIK II MEASUREMENTS OF NUCLEAR COMPONENT OF PRIMARY COSMIC RAYS WITH CERENKOV COUNTER N64-11403 02-28

CERENKOV COUNTER MEASUREMENTS OF PRIMARY COSMIC RADIATION SHOWING EFFECTS OF DECREASING SOLAR ACTIVITY
NASA-RP-330 N64-31211 22-25

CERENKOV EFFECT
DYNAMIC NONLINEAR WAVE PROPAGATION IN IONIZED MEDIA - CERENKOV EFFECT IN PREOSCILLATING MEDIUM
AFCRL-64-534 N64-27500 19-23

CERENKOV RADIATION
CF COSMIC RADIATION
CF GAMMA RADIATION
CONTINUOUS WAVE CERENKOV MICROWAVE RADIATION GENERATED BY INTERACTION OF MODULATED FLAT RIBBON ELECTRON BEAM WITH SCALER DIELECTRIC REACTOR
RADC-TDR-64-103 N64-20032 13-25

PLASMA CERENKOV RADIATION FROM POINT PROJECTILE AND EXTENSION TO PROJECTILE OF FINITE SIZE
01-82-0263 N64-26013 18-24

CERENKOV SCINTILLATION COUNTER MEASUREMENTS OF INTENSITY AND MODULATION OF LOW RIGIDITY COSMIC RAYS AND GEOMAGNETIC CUTOFF
NASA-RP-309 N64-31570 23-28

CERIUM
CERIUM 141 AND CERIUM 144 IN RADIOACTIVE FALLOUT AT BOMBAY - SAMPLING METHOD, CHEMICAL PROCEDURES, AND LEVELS DATA
AEET-AM-36 N64-10125 01-23

INFLUENCE OF CERIUM, LANTHANUM, AND NEODYMIUM ON PROPERTIES OF HIGH-TEMPERATURE NICKEL-BASE ALLOYS
JPRS-21895 N64-10382 01-18

PREPARATION OF PURE CERIUM METAL FROM CERIUM OXIDE BY ELECTROLYTIC PROCESS USING FLUORIDE BATH
BM-RI-6362 N64-14245 06-17

METATHESIS OF BASTNASITE AND SOLVENT EXTRACTION OF CERIUM
BM-RI-6381 N64-15831 07-07

INFRARED ABSORPTION SPECTRUM OF CERIUM /VALENCE 3/ IN SILICA AND BORAX GLASS N64-20928 14-23

RECRYSTALLIZATION OF BINARY ALLOYS OF MAGNESIUM WITH CERIUM N64-21191 14-18

SOLVENT EXTRACTION OF RARE EARTHS, CERIUM, AND STRONTIUM USING 2-DIETHYLHEXYL PHOSPHORIC ACID
HW-79762, PT. 2 N64-21736 15-07

THERMAL EXPANSION AND ELECTRIC RESISTANCE MEASUREMENTS ON CERIUM METAL
BM-RI-6480 N64-23699 16-09

SOLVENT EXTRACTION OF STRONTIUM, CERIUM AND RARE EARTHS FROM PUREX ACID WASTE BY DIETHYLHEXYL PHOSPHORIC ACID
HW-79762, PT. 1 N64-25978 18-07

STRUCTURAL DIAGRAM OF VANADIUM-CERIUM SYSTEM
FTD-TT-62-1761/1 N64-26210 18-18

CHEMICAL SEPARATION OF CERIUM FROM TRIVALENT RARE EARTHS - FISSION PRODUCT SEPARATION FOR WASTE PROCESSING
HW-78987, REV. N64-28782 20-07

EFFECT OF CERIUM ON MECHANICAL PROPERTIES OF CAST, HEAT-RESISTANT, CHROMIUM-MOLYBDENUM-VANADIUM STEEL

N64-29043 21-18

INFLUENCE OF NITRIC ACID ON REDUCTION OF CERIUM IONS IN POLONIUM ALPHA RADIATION FIELD
LFEN-2 N64-29235 21-07

ENERGY TRANSFER IN SILICATE GLASS COACTIVATED WITH CERIUM AND NEODYMIUM
NRL-1546 N64-30676 22-25

CERIUM COMPOUND
NITRIDATION OF CERIUM IN QUARTZ REACTOR WITH AMMONIA & NITROGEN TO FORM CERIUM NITRIDE
JPRS-18919 N64-11347 02-07

PREPARATION OF PURE CERIUM METAL FROM CERIUM OXIDE BY ELECTROLYTIC PROCESS USING FLUORIDE BATH
BM-RI-6362 N64-14245 06-17

DENSITY, PARTICLE SIZE, AND SURFACE AREA OF CERIA POWDERS DERIVED FROM SALTS
BM-RI-6375 N64-15991 07-19

CERIUM 137
RATIO OF CERIUM 137 ISOMERS PRODUCED IN CHARGED PARTICLE REACTIONS
UCRL-11049 N64-11989 03-23

CERIUM 144
CERIUM 141 AND CERIUM 144 IN RADIOACTIVE FALLOUT AT BOMBAY - SAMPLING METHOD, CHEMICAL PROCEDURES, AND LEVELS DATA
AEET-AM-36 N64-10125 01-23

GAMMA RADIOACTIVITY OF RATS AND WATER PHANTOMS BY COBALT-60 AND CERIUM-144 N64-12435 04-16

PARAMETRIC STUDY OF DIRECT NUCLEAR ELECTROGENERATOR CELLS USING BETA EMITTING RADIOISOTOPE CERIUM-144
AIAA PAPER-63-048B N64-22259 15-23

CERMET
CF ALLOY
CF COMPOSITE MATERIAL
CF REFRACTORY MATERIAL
HEAT TREATMENT OF ELECTRODEPOSITED CHROMIUM BASE CERMET COATINGS FOR SOLID PROPELLANT ROCKET NOZZLE
AD-407973 N64-11027 02-26

NONLINEAR STRESS-STRAIN BEHAVIOR OF COPPER-ALUMINUM & SILVER-ALUMINUM CERMETS
CPD-65 N64-11282 02-19

CERMETS - REFRACTORY STRUCTURAL MATERIALS
FTD-TT-62-1264/1 N64-16344 08-19

HIGH VELOCITY CO-EXTRUSION METHOD FOR FABRICATING TUNGSTEN CERMET AND REFRACTORY METAL CLADDING
LAMS-3065 N64-22251 15-18

BERYLLIUM OXIDE CERAMICS AND OTHER CERMETS
FTD-TT-62-1664/1&2 N64-23406 16-19

PHYSICAL METALLURGY OF CERMET MATERIALS
N64-23467 16-18

PHYSICAL METALLURGY OF CERMET INTERACTIONS WITH HIGH-MELTING METAL COMPOUNDS N64-23468 16-18

TENSILE FRACTURE STRESS OF TUNGSTEN-URANIUM OXIDE CERMETS FABRICATED BY PNEUMATIC IMPACTION
HW-79676 N64-25964 18-19

POWDER METALLURGY - CERMET MATERIALS, IRON-BRASS COMPOSITES AND REFRACTORY MATERIALS
FTD-TT-62-1473/1&2&4 N64-26734 18-18

SUBMINIATURIZED TRANSISTOR TYPE CERMET POTENTIOMETER - PRODUCTION, TESTS, SPECIFICATION CHANGES, AND RELIABILITY
QRR-11 N64-29418 21-33

CESIUM
CF ALKALI METAL
CLOSED SOURCES OF GAMMA RADIATION - RADIOACTIVE COBALT, ZINC, CESIUM, & IRIDIUM
JPRS-20129 N64-10512 01-07

SILVER-ZINC BATTERIES AS THE POWER SUPPLY FOR EXPLORER XVII
NASA-TM-X-51150 N64-10905 02-08

THERMAL DESORPTION AND SURFACE DIFFUSION OF CESIUM COATINGS ON TUNGSTEN SUBSTRATE - PULSED-FIELD-EMISSION MICROSCOPY INVESTIGATION
NASA-CR-22 N64-12912 04-25

EFFECTS OF CESIUM CONCENTRATION IN FEED SOLUTION AND IN SOIL ON ACCUMULATION IN PEA PLANTS & WHEAT
JPRS-22656 N64-13006 04-16

ABSORPTION SPECTRUM OF CESIUM IN PRESENCE OF ISOMERIC HYDROCARBONS N64-13159 04-23

PARALLEL PLANE CESIUM THERMIONIC CONVERTER WITH OXYGEN-TREATED TANTALUM EMITTER & MOLYBDENUM COLLECTOR
QPR-3 N64-13590 05-09

PULSED DISCHARGE MEASUREMENT OF CURRENT-VOLTAGE CHARACTERISTICS OF CESIUM THERMIONIC CONVERTER
REPT.-25114 N64-13993 05-06

CESIUM AND SOLAR ENERGY THERMIONIC CONVERTERS AND GENERATORS N64-14204 06-01

ELECTRON CYCLOTRON RESONANCE ABSORPTION METHOD FOR COLLISION RATE MEASUREMENT OF ELECTRON-CESIUM ATOM INTERACTIONS N64-14206 06-23

GAS ANALYZER TO DETERMINE EFFECTS OF GAS IMPURITIES ON CESIUM DIODES N64-14208 06-06

S-CURVES OF ELECTRON EMISSION FOR ABSORBATES, SUBSTRATES, AND ARRIVAL RATES FROM PARTIALLY COVERED CESIUM METAL SURFACE N64-14211 06-23

COMPATIBILITY OF LIQUID CESIUM WITH CONTAINMENT METALS
MSAR-63-172 N64-14356 06-18

THERMIONIC CONVERTER - CESIUM WITH CESIUM FLUORIDE ADDITIVE FOR LOWER WORK FUNCTION
TE-11-64 N64-14652 06-06

ALUMINUM ALLOYS DETERIORATION IN PRESENCE OF MERCURY AND CESIUM
NASA-CR-30 N64-15968 07-18

RADIANT ENERGY LOSS FROM CESIUM-ARGON PLASMA TO INFINITE PARALLEL PLANE ENCLOSURE
AVCO-EVERETT RES. REPT.-175 N64-17119 09-24

PENETRATION OF CESIUM IONS THROUGH IONIC DIPOLE LAYER AT ELECTRODE SURFACE N64-17905 10-23

SPECIFIC HEAT, THERMAL CONDUCTIVITY, AND VISCOSITY OF LIQUID CESIUM
NASA-CR-54018 N64-18294 10-18

THERMOPHYSICAL PROPERTIES OF RUBIDIUM AND CESIUM
MSAR-63-116 N64-19312 12-18

DIPOLE MATRIX ELEMENTS FOR TRANSITION IN CESIUM
RTD-TDR-63-3111 N64-21517 15-23

CESIUM BEAM OPTICS, C-FIELD HOMOGENEITY, MAGNETIC SHIELDING, AND MICROWAVE STRUCTURES
REPT.-1 N64-21518 15-23

CURRENT VOLTAGE RELATIONSHIP IN LOW PRESSURE CESIUM DIODE
NASA-RP-185 N64-22065 15-24

DIFFUSION RATE EFFECT ON CESIUM & POTASSIUM PLASMA AFTER PASSAGE OF CURRENT
MATT-259 N64-22109 15-24

SURFACE IONIZATION OF CESIUM - IONIZATION EFFICIENCIES OF TUNGSTEN, RHENIUM, & NIOBIUM, AND INFLUENCE OF ADSORBED GASES
NASA-CR-54047 N64-22444 15-24

SPECTROSCOPIC ANALYSIS OF ARC-MODE CESIUM

THERMIONIC CONVERTERS N64-22993 16-09

ELECTRONIC AND MECHANICAL COMPONENTS FOR CESIUM BEAM TUBE
IR-7-967 /1/ N64-23108 16-09

ION AND ELECTRON DRIFT VELOCITIES IN CESIUM
ARDD-3588-2 N64-23135 16-09

RESPONSE OF CESIUM OPTICAL PUMPING SYSTEM TO AUDIOMODULATED MICROWAVE SIGNALS - MIROS PROGRAM
NASA-CR-56566 N64-24124 16-06

OXIDATION OF CESIUM AT LOW TEMPERATURES AND PRESSURES
AEDC-TDR-64-111 N64-24164 16-18

ELECTRON WORK FUNCTION OF METAL IMMERSED IN GAS FOR CESIUM THERMIONIC DIODE APPLICATION
NASA-TN-D-2357 N64-24817 17-09

SEEDING SHOCK WAVES IN ARGON AND HELIUM WITH POTASSIUM AND CESIUM
MT-51 N64-24872 17-24

CESIUM PLASMA DIODE WITH NICKEL EMITTER
LAMS-3086 N64-25195 17-24

CESIUM BEAM TUBE FOR NAVIGATION AND GUIDANCE
PEB-894 N64-27475 19-09

CESIUM BEAM EFFUSION PATTERNS, MOLYBDENUM FOR MICROWAVE STRUCTURES, AND MAGNETIC SHIELDING MEASUREMENTS
QPR-2 N64-27626 19-09

EXPERIMENTAL VALUES OF HEAT OF ADSORPTION FOR SODIUM, RUBIDIUM, AND CESIUM ON TUNGSTEN SUBSTRATE
NASA-TN-D-2430 N64-27740 19-25

HEAT OF ADSORPTION FOR SODIUM, RUBIDIUM, AND CESIUM ON TUNGSTEN SUBSTRATE - CHEMISORPTION
NASA-TN-D-2431 N64-27741 19-25

HEATS OF ADSORPTION OF SODIUM, RUBIDIUM, AND CESIUM IONS ON TUNGSTEN SUBSTRATE
NASA-TN-D-2460 N64-27742 19-25

ELECTRON BOMBARDMENT CESIUM ION ENGINE SYSTEM
NASA-CR-54067 N64-28052 20-27

ONE-INCH-SQUARE LINEAR D-C PLASMA ACCELERATOR USING CESIUM SEEDED NITROGEN
AIAA PAPER-64-699 N64-28077 20-24

SEMICLASSICAL CALCULATION OF DIFFERENTIAL SCATTERING CROSS SECTION WITH CHARGE EXCHANGE - CESIUM IONS IN CESIUM VAPOR
NASA-TN-D-2484 N64-28339 20-24

HIGH PERFORMANCE CESIUM IONIZERS MADE FROM SIZED SPHERICAL TUNGSTEN POWDERS
AIAA PAPER-64-692 N64-28365 20-27

CESIUM MIGRATION ON REFRACTORY METALS USING FIELD EMISSION MICROSCOPY
AFCRL-64-328 N64-28567 20-23

EFFECT OF MAGNETIC FIELD ON ELECTRON STREAMS IN CESIUM VAPOR FILLED DIODE
FTD-TT-63-351/1&2 N64-29015 20-24

EFFECTIVE RADIUS OF CESIUM IN GROUND STATE AND EXCITED STATE
NASA-TM-X-52057 N64-30048 21-23

ZERO GRAVITY CONTROL OF CESIUM AND HYDROGEN BY ELECTRICAL PHENOMENA
APL-TDR-64-46 N64-30075 21-24

DIFFUSION OF CESIUM ARC PLASMAS ACROSS MAGNETIC FIELDS OF DIFFERING STRENGTHS
AD-437524 N64-30172 21-24

CESIUM INJECTION INTO AND RECOVERY FROM MAGNETOPLASMADYNAMIC LOOP N64-30435 22-10

COMPATIBILITY OF MAGNETOPLASMADYNAMIC GENERATOR REFRACTORY MATERIALS WITH CESIUM VAPOR
N64-30439 22-17

COLLISION CROSS SECTIONS FOR CESIUM ATOMS
N64-30442 22-24

EFFECTS OF CESIUM AND SODIUM IN ABLATING SURFACE OF POINTED CONES ON AIR IONIZATION IN BOUNDARY LAYER
R64SD22 N64-30658 22-11

SPECTROGRAPHIC-PHOTOMETRIC DETERMINATION OF CESIUM IN HIGH PURITY PLUTONIUM METAL - CONTAMINATION PRODUCED BY ELECTROREFINING PROCESS
RFP-420 N64-30756 22-07

BEHAVIOR OF THIN CESIUM LAYERS ON REFRACTORY METAL SUBSTRATES FOR STUDY OF VOLTAGE BREAKDOWN ACROSS VACUUM GAPS BETWEEN ALKALI-COATED ELECTRODES
NASA-CR-54106 N64-31012 22-25

OXIDATION RATE OF CESIUM AT REDUCED PRESSURE AND TEMPERATURE
AEDC-TDR-64-195 N64-31042 22-07

EFFECTS OF CESIUM ADDITIVE ON PERFORMANCE AND WORK FUNCTIONS OF RHENIUM EMITTER DIODE
REPT.-36-63 N64-32036 23-09

COMPUTATION OF CESIUM-CESIUM TOTAL SCATTERING CROSS SECTION USING LENNARD-JONES PARAMETERS
NASA-TM-X-52060 N64-32436 23-11

ENERGY REQUIREMENT FOR ION PRODUCTION BY ELECTRON BOMBARDMENT IN HELIUM, ARGON, AND CESIUM GASES
NASA-TM-X-52064 N64-32438 23-24

VAPOR-FILLED THERMIONIC CONVERTERS - CESIUM SURFACE ADSORPTION AND PLASMA PHENOMENA
NASA-CR-54194 N64-33100 24-06

EFFECT OF IMPURITIES ON IONIZATION BEHAVIOR OF CESIUM ON POROUS TUNGSTEN SURFACE IN ION ENGINE
ASD-TDR-63-476, PT. II N64-33885 24-26

ANALYTICAL METHODS FOR OXYGEN, NITROGEN, AND CARBON IMPURITIES IN CESIUM METAL - NEUTRON ACTIVATION, GAS CHROMATOGRAPHY, PHOTOMETRY, AND INFRARED ANALYZER TECHNIQUES
ML-TDR-64-199 N64-33912 24-07

MASS SPECTROMETRIC ANALYSIS OF GASEOUS IMPURITIES EVOLVED FROM CESIUM SUBJECTED TO HIGH TEMPERATURE REFLUX DISTILLATION
ML-TDR-64-200 N64-33913 24-07

CESIUM COMPOUND
THERMIONIC CONVERTER - CESIUM WITH CESIUM FLUORIDE ADDITIVE FOR LOWER WORK FUNCTION
TE-11-64 N64-14652 06-06

LIQUID-METAL-COOLED AND WATER-COOLED THERMIONIC REACTOR COLLECTOR SURFACE - CESIUM HYDRIDE COATING
GA-4804 N64-18707 11-06

SYNTHESIS OF CESIUM OZONIDE THROUGH CESIUM SUPEROXIDE
FTD-TT-64-194/1&2&4 N64-23446 16-19

POLAROGRAPHIC STUDY OF BOROHYDRIDES OF LITHIUM, SODIUM, POTASSIUM, AND CESIUM N64-23664 16-07

HIGH TEMPERATURE EFFECTS ON CRYSTAL SURFACE STRUCTURE OF CESIATED MOLYBDENUM EMITTERS FOR THERMIONIC CONVERTERS
NASA-CR-77 N64-24828 17-13

OPTICAL PHOTOEFFECTS OF DISPERSED SILVER FILMS COATED WITH ABSORBED FILMS OF CESIUM AND CESIUM COMPOUNDS
AD-600224 N64-30910 22-25

ELECTRON EMITTING PROPERTIES OF SMALL CESIUM ANTIMONIDE, ALUMINUM, AND SULFUR PARTICLES
AFCRL-64-689 N64-33531 24-25

CESIUM ENGINE
LONG-TIME TEST OF ELECTRON BOMBARDMENT CESIUM ION

ROCKET ENGINE, NEW PERMANENT MAGNET ENGINE, PLASMA DISTRIBUTION, AND AUTOCATHODE STUDIES
NASA-CR-54026 N64-29495 21-27

FLIGHT PROFILE SIMULATION TESTS OF CESIUM ION ENGINE FLIGHT TEST PAYLOAD
ASD-TDR-63-86 N64-30124 21-27

OPERATION LIFE OF CESIUM CONTACT ION ENGINES
AIAA PAPER-64-685 N64-32722 24-27

DESIGN CRITERIA AND PERFORMANCE OF LONG LIFE CESIUM CONTACT LINEAR STRIP ION ENGINE
AIAA PAPER-64-710 N64-32725 24-27

CESIUM FLUORIDE
THERMIONIC CONVERTER - CESIUM WITH CESIUM FLUORIDE ADDITIVE FOR LOWER WORK FUNCTION
TE-11-64 N64-14652 06-06

CESIUM ION
ATOMIC COLLISION CROSS-SECTION MEASUREMENTS OF CESIUM ION IN LOW ENERGY RANGE N64-14205 06-23

STATISTICAL MECHANIC DERIVATION OF SURFACE IONIZATION THEORY FOR CESIUM ION EMISSION FROM POROUS TUNGSTEN
EOS-RR-17 N64-14341 06-23

ION BEAM METHOD FOR MEASURING RECOMBINATION CROSS SECTION OF CESIUM IONS
TRECOM-TR-63-73 N64-14501 06-23

PULSED DISCHARGE TECHNIQUE USED TO MEASURE CESIUM ION MOBILITY IN CESIUM
AD-423289 N64-14622 06-18

ION EMISSION & EMITTERS - EFFECT OF IMPURITIES ON CESIUM ION AND NEUTRAL EMISSION FROM HOT POROUS TUNGSTEN
NASA-CR-54045 N64-22193 15-23

RUBIDIUM AND CESIUM IONS SCATTERED FROM MOLYBDENUM SURFACE N64-24569 17-23

CESIUM ION ROCKET PROPULSION SYSTEM
NASA-CR-54025 N64-25015 17-27

THREE-BODY COLLISIONAL RECOMBINATION OF CESIUM SEED IONS AND ELECTRONS IN HIGH DENSITY PLASMAS WITH ARGON CARRIER GAS
NASA-TN-D-2004 N64-32404 23-24

CESIUM ION-NEUTRAL SCATTERING AND ION MOBILITY IN LOW FIELD LIMIT
NASA-TM-X-52061 N64-32437 23-24

CESIUM PLASMA
QUIESCENT PLASMA SOURCE USING CONTACT IONIZATION OF CESIUM
MATT-219 N64-12089 03-24

DIFFUSION OF CESIUM PLASMA IN MAGNETIC FIELD
MATT-257 N64-19489 12-24

CESIUM ARC PLASMA DIFFUSION ACROSS LOW MAGNETIC FIELDS
AFCRL-64-277 N64-19649 12-24

CESIUM PLASMA CELL WITH URANIUM CARBIDE EMITTER SURFACE N64-22986 16-09

CESIUM PLASMA DIODE WITH NICKEL EMITTER
LAMS-3086 N64-25195 17-24

DETERMINATION OF ELECTRON COLLISION FREQUENCY AND DECAY RATE OF CESIUM GAS DISCHARGE PLASMA BY MICROWAVE METHOD
NASA-TT-F-8980 N64-33387 24-24

CESIUM VAPOR
METHODS FOR DISPLAY OF EMISSION FROM SURFACES IN CESIUM VAPOR N64-14209 06-06

POLYCRYSTALLINE MOLYBDENUM AS ELECTRODE MATERIAL FOR CESIUM VAPOR THERMIONIC CONVERTERS N64-14210 06-06

HIGH TEMPERATURE EFFECT ON POLYCRYSTALLINE MOLYBDENUM SUBSTRATES USED IN CESIUM VAPOR THERMIONIC CONVERTERS
NASA-CR-55387 N64-14863 06-0

PYROMETER CORRECTION DUE TO DIMER ABSORPTION IN CESIUM VAPOR
AFCRL-64-208 N64-16625 08-2

PLASMA GENERATION, ELECTRON TRANSPORT, AND CESIU INTERACTION WITH METAL SURFACE AND INSULATORS IN VAPOR-FILLED THERMIONIC CONVERTER
NASA-CR-54009 N64-17222 09-2

ALTERNATING CURRENT CESIUM THERMIONIC CONVERTER WITH SINGLE DIODE N64-17389 09-0

CESIUM VAPOR EFFECTS ON IONIZATION GAGES AT LOW PRESSURES
NASA-TN-D-2264 N64-17728 09-1

LIFE TEST OF PLANAR MOLYBDENUM-EMITTER CESIUM VAPOR THERMIONIC CONVERTER OPERATING UNDER STEADY-STATE CONDITIONS
ASD-TDR-63-183 N64-18567 11-0

IONIZATION MECHANISM FOR CESIUM VAPOR IN PRESENCE OF HOT BODY
USAELRDL-TR-2434 N64-21493 14-2

THERMIONIC CONVERSION USING CESIUM, POTASSIUM, AN SODIUM VAPORS N64-22987 16-0

ABSORPTION OF RESONANCE RADIATION IN CESIUM VAPOR AND EFFECT OF RESONANCE RADIATION ON IONIZATION PROCESSES IN CESIUM VAPOR PLASMAS
EOS-3130-ANNUAL N64-24915 17-2

CESIUM VAPOR AUTOMATIC CONTROL SYSTEMS FOR ELECTRON BOMBARDMENT AND CONTACT ION ENGINES
AIAA PAPER-64-504 N64-25177 17-2

EFFECTS OF ADDING HELIUM AND ARGON TO CESIUM VAPO THERMIONIC CONVERTERS
AD-425081 N64-25193 17-1

SPIN RELAXATION OF OPTICALLY PUMPED CESIUM VAPOR AS FUNCTION OF BUFFER GAS PRESSURE FOR VARIOUS INERT GASES
R-202 N64-25862 18-2

ABSORPTION SPECTRUM OF CESIUM VAPOR FOR PRESSURE RANGE OF THERMIONIC CONVERTER
EOS-3130, FINAL N64-27547 19-2

CESIUM VAPOR EFFLUX PATTERNS AND FLOW RATES FROM CYLINDRICAL TUBES DETERMINED IN FREE MOLECULE AND SLIP FLOW REGIMES
NASA-TN-D-2480 N64-28652 20-1

EFFECT OF MAGNETIC FIELD ON ELECTRON STREAMS IN CESIUM VAPOR FILLED DIODE
FTD-TT-63-351/1&2 N64-29015 20-2

CESIUM VAPOR-FILLED THERMIONIC CONVERTERS FOR HIGH VACUUM WORK FUNCTION EMITTER MATERIALS
MND-3100 N64-31198 22-0

CESIUM 134
RELATION BETWEEN MODES OF RADIOACTIVE DECAY OF CESIUM 134 N64-25558 17-2

CESIUM 137
RAPID ANALYSIS FOR CESIUM-137 IN RADIOACTIVE FALLOUT BY USING AMMONIUM PHOSPHOMOLYBDATE AND BETA RADIATION MEASUREMENT
EUR-438.F N64-14760 06-2

ION EXCHANGE PROCESS FOR REMOVING CESIUM 137 FRO AGED RADIOACTIVE WASTE SOLUTIONS
DP-876 N64-19914 12-0

ENVIRONMENTAL RADIOACTIVITY IN INDIA FROM NUCLEA WEAPON TESTS - DATA ON GAMMA EMITTING ISOTOPES CESIUM 137 AND STRONTIUM 90 IN MILK AND FOOD
AEET-AM-39 N64-20621 13-2

SELF-PURIFICATION OF CESIUM 137 FROM WATER AND CHEMICAL COMPOSITION OF ALGAE
JPRS-26056 N64-29032 21-1

SELF-PURIFICATION OF CESIUM 137 FROM WATER IN WEAKLY RUNNING RESERVOIRS N64-29033 21-16

FABRICATION OF CESIUM-137 SOURCES - ENCAPSULATION OF CESIUM CHLORIDE PELLETS IN STAINLESS STEEL
ORNL-3675 N64-30483 22-17

INTENSITY OF STRONTIUM-90, CESIUM 137, & RADIOACTIVE RARE EARTH PARTICLES IN RAIN AND AIR
LARS-2878 N64-33469 24-21

CH-21 HELICOPTER
AIRFRAME DEFORMATION OF CH-21A HELICOPTER UNDER DYNAMIC CRASH
AVSER-63-3 N64-18465 10-04

CHAMBER
SA ANECHOIC CHAMBER
SA BUBBLE CHAMBER
SA COMBUSTION CHAMBER
SA SPARK CHAMBER
SA THRUST CHAMBER
COMPARISON OF GAMMA ENERGY RESPONSE OF PORTABLE SCINTILLOMETER TO IONIZATION CHAMBER
UCRL-10986 N64-10397 01-15

IONIZATION CHAMBER FOR PRECISE DOSIMETRY OF ENVIRONMENTAL GAMMA AND COSMIC RADIATION
HASL-108 N64-10409 01-10

LONG-TERM HUMAN BEHAVIOR STUDY IN PROGRAMMED ENVIRONMENT
NASA-CR-52913 N64-11825 03-14

BIOMEDICAL REQUIREMENTS & DESIGN CRITERIA FOR MAN-MACHINE SYSTEM CONFIGURATION FOR USE IN PROPOSED AEROSPACE ENVIRONMENTAL CHAMBER
AEDC-TDR-63-256 N64-12226 03-16

CATALYTIC ACTIVITY AND METAL & METAL OXIDE ATOM RECOMBINING ESTIMATION FROM ARC-TUNNEL HEAT TRANSFER DATA
TP-76 N64-13982 05-13

REACTOR CONTROL DEVICES & SYSTEMS, CAPACITANCE TEMPERATURE SENSOR, FISSION COUNTERS, IONIZATION CHAMBERS, AND NEUTRON DETECTORS
GEMP-270C N64-16001 07-23

DIFFUSION AND ABSORPTION OF GASES IN PLASTIC-WALLED IONIZATION CHAMBERS N64-17109 09-23

IMPROVING UNIFORMITY AND STRENGTH IN IMPREGNATED ROVING FOR FILAMENT-WOUND ROCKET CHAMBERS
BAR-5 N64-18265 10-19

INTENSITY MEASUREMENT OF PROTON BEAM OF SYNCHROCYCLOTRON WITH THIN HELIUM PLATE IONIZATION CHAMBERS
NASA-CR-53566 N64-18427 10-23

VIBRATION TEST STAND FOR ENVIRONMENTAL CHAMBER N64-20256 13-10

PURIFICATION OF ARGON FOR ENVIRONMENTAL CHAMBERS AND GLOVE BOXES N64-20807 14-19

SOLAR ACTIVITY - CLOUD CHAMBER RESEARCH OF HIGH ENERGY COSMIC RAY REACTIONS
AD-431599 N64-21676 15-28

LINEAR PROPORTIONAL CONTROL HOT GAS VALVE FOR LIQUID ROCKET CHAMBER BLEED SYSTEM
TR-3137 N64-21678 15-17

UNIVERSAL DATA PROCESSING SYSTEM FOR MARK I AEROSPACE SYSTEM ENVIRONMENTAL CHAMBER
AEDC-TDR-64-123 N64-22699 15-20

VACUUM ARC FURNACES & ELECTRONIC EQUIPMENT FOR MELTING
JPRS-24753 N64-24576 17-10

VACUUM ARC FURNACE DESIGN N64-24577 17-10

IMPROVEMENT OF SHORT-ARC WIND TUNNEL BY ROTATING ARC IN HIGH COMPRESSION CHAMBER N64-26142 18-11

ARC CHAMBERS AND INSTRUMENTATION DEVELOPMENT OF HOTSHOT TUNNEL N64-26143 18-13

INTERPRETATION OF MEASUREMENT RESULTS IN ARC WIND TUNNEL N64-26144 18-02

EXTENSION OF OPERATING TEMPERATURE CAPABILITY OF FISSION COUNTERS AND DIRECT CURRENT IONIZATION CHAMBERS - METAL-TO-CERAMIC VACUUM SEALS
GEMP-298 N64-26841 18-15

EXPERIMENTAL HEAT TRANSFER IN ROCKET THRUST CHAMBER N64-28589 20-13

IMPROVEMENT OF SHORT ARC WIND TUNNEL BY ROTATING ARC IN HIGH PRESSURE CHAMBER
NASA-TT-F-9079 N64-31564 23-10

TURBULENT SHEAR IN JET-DRIVEN VORTEX CHAMBERS
ATN-64/9227/-5 N64-33358 24-02

CHANCE-VOUGHT MILITARY AIRCRAFT
S F- 8 AIRCRAFT

CHANDRASEKHAR EQUATION
RADIATIVE TRANSFER IN FINITE HOMOGENEOUS ATMOSPHERES WITH ANISOTROPIC SCATTERING - UNIQUENESS PROBLEM FOR CHANDRASEKHAR EQUATIONS
RM-3909-PR N64-21910 15-23

CHANNEL
SHOCK WAVE ATTENUATION IN CHANNELS OF VARIOUS CONFIGURATIONS
ARC-R&M-3321 N64-10015 01-11

EFFECTS OF NOISE IN PICTURE PROCESSING & CODING COLOR PICTURES, SEQUENTIAL DECODING FACILITY, AND ERROR BOUND FOR FIXED-TIME CONTINUOUS CHANNELS N64-17880 10-08

CODING AND DECODING TIME-DISCRETE AMPLITUDE-CONTINUOUS MEMORYLESS CHANNEL
RLE-TR-399 N64-18366 10-20

HEAT TRANSFER IN CIRCULAR CHANNELS
FTD-TT-62-1642/1&2&4 N64-22148 15-13

TELEPHONE CHANNEL MONITOR - TEST PROGRAM
SDL-1195 N64-31946 23-08

RESONANCE CALCULATIONS IN BARYON-MESON TWO PARTICLE CHANNELS
UCRL-11622 N64-33430 24-23

CHANNEL FLOW
UNIFORMITY OF DISTRIBUTION & MOTION OF DISPERSION LAYER IN PARALLEL CHANNELS N64-11980 03-11

TURBULENT DIFFUSION FROM POINT SOURCE IN PIPE FLOW
AFCRL-63-727 N64-12291 03-11

ATTENUATION FLOW OF SHOCK WAVE IN CHANNELS N64-12418 04-02

LAPLACE TRANSFORM FOR SUDDEN START, RELAXATION, & HARMONIC PRESSURE OSCILLATION OF LAMINAR FLUID FLOW IN PIPES
E-T-G-G-63-16 N64-13110 04-11

COMPUTER PROGRAM FOR ANALYSIS OF ONE-DIMENSIONAL MAGNETOHYDRODYNAMIC CHANNEL FLOW
AEDC-TDR-63-215 N64-14638 06-20

UNIPOLAR IONIZED GAS FLOW THROUGH SLENDER CYLINDRICAL CHANNELS - ELECTROGASDYNAMIC APPLICATIONS
ARL-63-205 N64-14658 06-24

INDUCTION-COUPLED LIQUID METAL MAGNETOHYDRODYNAMIC CHANNEL FLOW N64-17903 10-24

WATER FLOW CHANNEL AND INSTRUMENTATION AND APPLICATION TO AERODYNAMIC DECELERATION
RTD-TDR-63-4024 N64-18938 11-10

STABILITY OF MAGNETOHYDRODYNAMIC CHANNEL FLOW WITH ALIGNED MAGNETIC FIELD
FLIGHT SCI. LAB. REPT.-88 N64-19170 11-24

EFFECT OF MAGNETIC FIELD ON TWO-PHASE FLOW OF SODIUM-POTASSIUM ALLOY AND NITROGEN IN RECTANGULAR CHANNEL
ANL-6854 N64-23284 16-24

MAGNETOHYDRODYNAMIC PROBLEMS IN CONVECTIVE FLOW OF VISCOUS CONDUCTIVE LIQUID IN VERTICLE CHANNELS
N64-23480 16-24

SEPARATED FLOW IN CURVED CHANNELS - BASIS FOR MODULATION IN FLUID AMPLIFICATION
N64-25259 17-11

ANALYSIS OF MAGNETOHYDRODYNAMIC CHANNEL ENTRANCE FLOWS USING MOMENTUM INTEGRAL METHOD
MIT-35-P N64-25503 17-11

DECAY ANALYSIS OF INITIAL NONEQUILIBRIUM STATE OF BINARY REACTING MIXTURE IN CONSTANT AREA CHANNEL WITHIN LINEAR THERMODYNAMICS
N64-26332 18-02

CONVECTIVE HEAT TRANSFER IN THIN RECTANGULAR CHANNEL FLOW AS FOUND IN NUCLEAR REACTOR FUEL ASSEMBLIES
NASA-TN-D-2411 N64-26778 18-13

MAGNETOHYDRODYNAMIC CHANNEL FLOWS - GENERALIZED HARTMANN FLOW, LAMINAR FLOW IN PIPES, UNSTEADY FLOW, AND TURBULENT FLOW
ARL-63-175 N64-27465 19-24

SEPARATED FLOW IN CURVED CHANNELS WITH SECONDARY INJECTION
ARD-TR-020-01 N64-27536 19-02

MIXING OF GAS JETS IN CHANNEL OF VARIABLE CROSS SECTION
TIL/T-5410 N64-29378 21-11

FLOW OF ELECTRICALLY CONDUCTIVE FLUID IN PLANE MAGNETOHYDRODYNAMIC CHANNEL WITH TRANSVERSE MAGNETIC FIELD
NASA-TT-F-242 N64-29493 21-24

FLOW OF ELECTRICALLY CONDUCTING FLUID IN PLANE CHANNEL
NASA-TT-F-241 N64-29499 21-24

SLUG FLOW DENSITY IN HEATED CHANNELS
REPT.-7-7673-23 N64-31280 22-13

FILLING FACTOR EFFECT OF DRIFT CHANNEL ON TRAVELING WAVE TUBE EFFICIENCY - ESTIMATE WITH TUBULAR ELECTRON BEAM N64-31360 23-09

WALL TEMPERATURE DISTRIBUTION FOR LAMINAR FORCED CONVECTION IN RECTANGULAR CHANNELS WITH UNEQUAL HEATING ON ADJACENT SIDES
NASA-RP-316 N64-31444 23-13

GAS FLOW IN CHANNEL OF AXIAL FRICTION TURBINE
N64-31756 23-02

CHAPLYGIN EQUATION
TRANSONIC GAS FLOW THEORY - NEW VARIABLES FOR CHAPLYGIN EQUATIONS FOR FLOW IN NOZZLES
N64-27978 20-02

CHAPMAN-ENSKOG METHOD
SEE BOLTZMANN EQUATION

CHAPMAN-JOUGET FLAME
MEASUREMENT OF CHAPMAN-JOUGUET PRESSURES AND REACTION ISENTROPIC EXPONENTS OF PURE AND MIXED EXPLOSIVES FROM SMEAR CAMERA SHADOWGRAPHS OF CYLINDRICAL SHOCK WAVES IN WATER
NOLTR-64-58 N64-29864 21-11

CHAR
EFFECTS OF ENVIRONMENTAL CONDITIONS ON PERFORMANCE OF CHARRING ABLATING MATERIALS
NASA-TM-X-51959 N64-29707 21-13

CHARACTER RECOGNITION
SYSTEM THAT RECOGNIZES ALPHABETIC AND NUMERICAL SYMBOLS, DISCRIMINATES FROM BACKGROUND, AND CAN EXPAND ITS REPERTOIRE N64-19420 12-23

CHARACTERISTIC EQUATION
CHARACTERISTIC FUNCTIONAL EQUATION USED AS ALGORITHM IN DYNAMIC PROGRAMMING
RM-3661-PR N64-31038 22-20

CHARCOAL
SEE CARBON
CHARCOAL, WOOD, AND COW DUNG FOR FUEL IN THERMAL ENERGY CONVERSION SYSTEMS
QPR-5 N64-13958 05-06

CRYOSORPTION PUMPING OF HYDROGEN WITH MOLECULAR SIEVES OR CHARCOAL AS ADSORBENTS
AEDC-TDR-64-100 N64-21290 14-23

ACTIVATED COCONUT CHARCOAL APPARATUS FOR DETERMINING HELIUM CONTENT OF GAS MIXTURES
BM-RI-6545 N64-33018 24-07

CHARGE
SEE SPACE CHARGE
SEE EXPLOSIVE
ATMOSPHERIC ELECTRIC MEASUREMENTS AT HIGH MOUNTAIN STATIONS - CLOUDS, PRECIPITATION, AND CHARGE
JPRS-21604 N64-10200 01-12

ROW CHARGE SEPARATION AND DEPTH EFFECT ON CRATER DIMENSION
SC-4730/RR/ N64-10256 01-12

FLEXIBLE LINEAR SHAPED CHARGE SYSTEM FOR SPACE VEHICLE STAGE SEPARATION
SSD-TDR-63-279 N64-12683 04-23

ELECTRICAL CONDUCTIVITY & MAGNETIC PROPERTIES OF ORGANIC COMPLEXES WITH CHARGE MIGRATION
E-T-R-63-3 N64-13114 04-07

TABLES OF FERMI INTEGRALS FOR EVALUATING MULTIPOLE MOMENTS OF ROUNDED CHARGE DISTRIBUTIONS OF NUCLEI
ORNL-3525 N64-13156 04-20

HYPERVELOCITY ACCELERATORS - SHAPED CHARGE & TARGET PLATE ACCELERATORS N64-13520 04-23

CHARGE RETENTION TEST, POLARIZATION STUDIES, AND FABRICATION OF REGENERATIVE FUEL CELL
NASA-CR-55639 N64-15899 07-06

OPTIMUM CHARGING METHODS FOR SEALED NICKEL-CADMIUM CELLS N64-17414 09-06

MEASUREMENTS OF CHARGE STATE OF NICKEL-CADMIUM BATTERY N64-17415 09-06

DISTRIBUTION OF UNBOUND CHARGED PARTICLES IN STATIC MAGNETIC FIELD OF DIPOLE
NASA-TM-X-51312 N64-17685 09-23

ENERGY RADIATION IN PLASMA FROM ROTATING CHARGE DISTRIBUTION IN MAGNETIC FIELD
NASA-CR-53586 N64-18436 10-24

METHODS FOR DETERMINING STATE OF CHARGE OF NICKEL-CADMIUM BATTERIES
AD-435989 N64-20345 13-06

CHARGE-TO-MASS RATIOS AND VELOCITIES OF ELECTRICALLY ATOMIZED PARTICLES
CPRL-2-63 N64-20822 14-23

SILICON TRANSISTOR FAILURE MECHANISMS CAUSED BY SURFACE CHARGE SEPARATION N64-20977 14-25

OPTIMIZATION OF CHARGE-TO-METAL RATIOS IN WARHEADS WITH FIXED WEIGHT OR FIXED VOLUME LIMITATIONS
NAVWEPS-8471 N64-21174 14-01

PENETRATION OF SHAPED CHARGES INTO FROZEN GROUND
CRREL-130 N64-23139 16-12

CHARGE AND ENERGY SPECTRA OF PRIMARY AND SECONDARY COSMIC RAYS WITH CHARGE LOWER THAN 3 AT 46 DEGREE GEOMAGNETIC LATITUDE
N64-25824 17-28

ELECTROSTATIC CHARGING PROCESSES AFFECTING SPACE VEHICLES
RM-176L N64-25993 18-09

PERFORMANCE CHARACTERISTICS OF STRATIFIED CHARGE TWO STROKE SPARK IGNITION ENGINE
TR-S-1 N64-26660 18-27

ELECTROSTATIC CHARGING AND DISCHARGING PROCESSES DURING AIRCRAFT REFUELING N64-30372 22-17

ELECTROSTATIC CHARGING CURRENTS IN HELICOPTER ROTOR BLADES
TRECOM-TR-64-14 N64-31952 23-04

SPONTANEOUS CHARGE RELEASE AND ABSORPTION IN PIEZOELECTRIC CERAMICS
SUFFIELD-TN-137 N64-33002 24-15

CHARGE EXCHANGE
FORWARD DIFFERENTIAL CROSS SECTION FOR PION ELASTIC CHARGE-EXCHANGE SCATTERING
UCRL-11150 N64-17836 09-23

SEMICLASSICAL CALCULATION OF DIFFERENTIAL SCATTERING CROSS SECTION WITH CHARGE EXCHANGE - CESIUM IONS IN CESIUM VAPOR
NASA-TN-D-2484 N64-28339 20-24

INTERACTION ENERGIES, CHARGE EXCHANGE CROSS SECTIONS, & DIFFUSION CROSS SECTIONS FOR COLLISIONS OF ATOMS OF NITROGEN & OXYGEN WITH CORRESPONDING POSITIVE IONS N64-29715 21-11

RESONANT CHARGE EXCHANGE IN ATOMIC COLLISIONS N64-30305 22-23

CHARGE TRANSFER
CHARGE TRANSFER CROSS SECTION FOR NITROGEN ION AND ATOM AT 2650 ELECTRON VOLTS WITH TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-63-709 N64-11934 03-23

CHARGE TRANSFER, ION DISSOCIATION, AND PHOTO-IONIZATION STUDIED WITH MODIFIED TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-63-708 N64-13083 04-15

CHARGE TRANSPORT AND CARRIER GENERATION IN CADMIUM SULFIDE
E-745-P N64-14464 06-25

MASS SPECTROMETER OBSERVATION OF SLOW IONS PRODUCED BY CHARGE TRANSFER AND IONIZATION COLLISION
REPT. 18 N64-18307 10-23

GRAFT AND BLOCK CHARGE TRANSFER COPOLYMERS OF VINYL AROMATIC HYDROCARBONS
NASA-CR-53572 N64-18451 10-07

UNCOUPLING PROCEDURE FOR CHARGE TRANSPORT AND ELECTRIC FIELD EQUATIONS IN PARALLEL PLATE ION CHAMBER
RTD-TDR-63-3063 N64-19001 11-23

CHARGE TRANSFER IN ELECTROSTATIC GENERATORS WITH DIELECTRIC TRANSFER MEDIA
FTD-TT-63-247/1&2&364 N64-19182 11-23

KINETICS OF CHARGE TRANSFER PROCESSES IN DRIFT TUBE OF TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-64-383 N64-22612 15-23

INTERACTION OF ELECTRON DONORS AND ACCEPTORS N64-30313 22-07

FLIGHT-TIME SHIFT EQUATIONS FOR SPURIOUS FRAGMENT PEAKS ARISING FROM CHARGE TRANSFER AND ION DISSOCIATION REACTIONS OCCURRING INSIDE POTENTIAL BARRIER OF REACTANT REGION
AFCRL-64-519 N64-31806 23-24

OBSERVATION OF 2,1 CHARGE TRANSFER IN TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-64-591 N64-31810 23-15

EFFECTS OF ION BEAM EXCITATION ON CHARGE TRANSFER CROSS SECTION MEASUREMENTS N64-32526 23-11

ELECTRICAL BEHAVIOR OF CHARGE AND MASS TRANSPORT MECHANISMS IN REFRACTORY METAL OXIDES
ARL-64-122 N64-32627 23-25

CHARGED PARTICLE
SA ALPHA PARTICLE
SA COULOMB POTENTIAL
SA CYCLOTRON RESONANCE
SA DEUTERON
SA ELECTRON
SA ION
SA MESON
SA NUCLEAR PARTICLE
SA PARTICLE TRAJECTORY
SA POSITRON
SA PROTON
CF ELEMENTARY PARTICLE
DIFFUSION OF CHARGED PARTICLES OF PLASMA IN MAGNETIC FIELD N64-11427 02-24

MECHANISMS RESULTING IN ACCELERATION OF CHARGED PARTICLES TRAPPED WITHIN MAGNETOSPHERE
SWC-TDR-62-133 N64-11815 03-12

RATIO OF CERIUM 137 ISOMERS PRODUCED IN CHARGED PARTICLE REACTIONS
UCRL-11049 N64-11989 03-23

CHARGED PARTICLE ACCELERATION IN PERPENDICULAR MAGNETOHYDRODYNAMIC SHOCK WAVE
AFOSR-2249 N64-12075 03-23

SCINTILLATION EFFICIENCY OF SODIUM IODIDE FOR CHARGED PARTICLES N64-12549 04-23

IMPROVING MAGNETIC SHIELDING OF SPACE VEHICLES AGAINST CHARGED-PARTICLE COSMIC RADIATION
ERR-FW-210 N64-12926 04-09

MOTION EQUATION OF CHARGED PARTICLE IN STATIC MAGNETIC FIELD
NASA-RP-99 N64-13208 04-28

POSITRON DEPOLARIZATION MECHANISMS EFFECT OF ELECTRON COLLISIONS AND MULTIPLE SCATTERING ON NUCLEI N64-16264 08-23

INVESTIGATION OF IONOSPHERIC CHARGED PARTICLES - ELECTRON DENSITY CALCULATIONS FROM RADIO TRANSMISSIONS OF COSMOS SATELLITES
AID-P-64-9 N64-16461 08-08

ALFVEN THEORY FOR INTERPRETING VAN ALLEN BELTS AND MOTION OF CHARGED PARTICLES IN MAGNETIC FIELD
AFCRL-64-226 N64-16491 08-28

BORN APPROXIMATION FOR CALCULATING SCATTERING CROSS SECTION FROM CHARGED PARTICLE AND ATOMIC COLLISION N64-17008 09-23

CHINESE REPORTS ON LASERS, RUBY ABSORPTION LINES, BORON PHOSPHIDE DECOMPOSITION, CHARGED PARTICLE MOVEMENT, AND MATHEMATICAL MODELS IN CHEMISTRY
JPRS-23767 N64-17342 09-01

AREA OF MOVEMENT OF CHARGED PARTICLES IN DIPOLE MAGNETIC FIELDS AS INDICATED BY GLOW DISCHARGE N64-17346 09-24

EXPLORER XIV OUTER RADIATION ZONE CHARGED PARTICLE FLUX MEASUREMENT
NASA-CR-53169 N64-17579 09-12

DISTRIBUTION OF UNBOUND CHARGED PARTICLES IN STATIC MAGNETIC FIELD OF DIPOLE
NASA-TM-X-51312 N64-17685 09-23

INTERACTION OF SOLID PARTICLES WITH IONIZED GAS, CHARGE ACQUISITION, AND DYNAMICS OF TWO-PHASE FLOW - SQUID PROJECT N64-18857 11-24

ATOMIC NUCLEUS AND TYPES OF NUCLEAR REACTIONS DETERMINATION USING CHARGED PARTICLE ACCELERATORS
FTD-TT-62-957/1&2 N64-19190 11-23

INSTRUMENTATION IMPLEMENTATION FOR INVESTIGATION OF ELECTRICAL STRUCTURE OF UPPER ATMOSPHERE - MEASURING CHARGED PARTICLE DENSITIES
AFCRL-64-50 N64-19640 12-15

CHARGED PARTICLE PROPULSION - DOUBLE ENERGY CONVERSION PROBLEM AND APPLICATION TO ELECTRIC PROPULSION SYSTEM FOR SPACE VEHICLES

N64-19840 12-27

BEHAVIOR OF CHARGED PARTICLE INTERACTING WITH STATIONARY CURRENT DISTRIBUTION - QUANTUM MECHANICAL PARADOX
NASA-CR-53183 N64-20738 13-23

CHARGE-TO-MASS RATIOS AND VELOCITIES OF ELECTRICALLY ATOMIZED PARTICLES
CPRL-2-63 N64-20822 14-23

LOCATING BOUNDARY OF PENETRATING PLASMA USING CHARGED PARTICLE BEAMS
FTD-MT-63-1089/1&2 N64-21940 15-25

CHARGED PARTICLES & COSMIC RADIATION IN EARTHS UPPER ATMOSPHERE
FTD-TT-64-90/1&2&4 N64-22027 15-29

CLASSICAL THEORY OF ADIABATIC INVARIANTS APPLIED TO CHARGED PARTICLE MOTION IN MAGNETIC FIELD
N64-22029 15-24

DENSITY DISTRIBUTION AND INTENSITY OF CHARGED PARTICLES IN STATIONARY GEOMAGNETIC FIELD
N64-22030 15-28

CHARGED PARTICLE MOTION IN MAGNETIC DIPOLE FIELD WITH KINETIC ENERGY LOSS CONSIDERED
N64-22031 15-24

EARTH SATELLITE MEASUREMENT OF CHARGED PARTICLE TRACKS TO STUDY COSMIC RADIATION INTENSITY
N64-22032 15-28

INVARIANT GROUP SOLUTION OF EQUATIONS OF PLANAR STATIONARY BEAM OF CHARGED PARTICLES - PLASMA PHYSICS
FTD-TT-62-1810/1&2&4 N64-22404 15-24

INFLUENCE OF WAVEGUIDE CHARGED PARTICLE MOVEMENT ON PLASMA ELECTROMAGNETIC RADIATION
AFCRL-64-279 N64-22918 16-24

SATELLITE MEASUREMENTS OF CHARGED PARTICLES FOR COSMIC RADIATION STUDY IN IONOSPHERE
NASA-TT-F-8831 N64-22939 16-28

DENSITY & INTENSITY DISTRIBUTION OF CHARGED PARTICLES IN STATIONARY GEOMAGNETIC FIELD
NASA-TT-F-8829 N64-23044 16-12

MOTION OF CHARGED PARTICLES IN FIELD OF MAGNETIC DIPOLE WITH ALLOWANCE FOR ENERGY DISSIPATION
NASA-TT-F-8830 N64-23045 16-23

ADIABATIC INVARIANT MOTIONS OF CHARGED PARTICLE IN STATIONARY NONHOMOGENEOUS MAGNETIC FIELD
NASA-TT-F-8828 N64-23127 16-24

RADIATION FIELD OF CHARGED PARTICLE IN MOVING MEDIUM N64-23805 16-28

MOTION OF CHARGED PARTICLE THROUGH STATIONARY MAGNETIC FIELD IN APPROXIMATION OF AVERAGE DRIFT
N64-23858 16-27

PLASMA SHEATH AND SCREENING AROUND STATIONARY CHARGED SPHERE AND FAST-MOVING CHARGED BODY
NASA-CR-56226 N64-23930 16-23

LINEAR STARK BROADENING OF SPECTRAL LINE BY CHARGED PARTICLES N64-24058 16-23

STELLAR EVOLUTION & LIBERATION OF GRAVITATIONAL ENERGY FROM CHARGED PARTICLE COLLISION
NASA-TT-F-8688 N64-25123 17-05

CHARGED PARTICLE FLOW IN MAGNETIC FIELDS
NASA-TT-F-8903 N64-25287 17-11

OBSERVATION OF CHARGED PARTICLES IN EARTHS OUTER RADIATION ZONE FROM EXPLORER XIV SATELLITE
N64-25539 17-12

INTENSITY OF HIGH ENERGY COSMIC RAY MUONS IN EARTH ATMOSPHERE
NASA-RP-270 N64-26407 18-28

PHYSICS OF CHARGED PARTICLE SYSTEMS
NBS-7663 N64-26472 18-14

DEFLECTING AND FOCUSING CHARGED PARTICLES IN VACUUM CHAMBER BY MAGNET
CERN-64-24 N64-26529 18-23

SIMULATION OF CHARGED PARTICLE MOVING IN MAGNETIC FIELD BY CURRENT CARRYING WIRE UNDER TENSION
M-15 N64-26793 18-23

RADIATION PROCESSES OF CHARGED PARTICLES MOVING IN UPPER ATMOSPHERE, AND COMPOSITION AND PROPERTIES OF MAGNETOSPHERE
NASA-CR-56721 N64-27810 19-18

PLASMA HEATING BY INJECTION OF CHARGED PARTICLES
REPT.-64-5 N64-27962 20-24

VECTOR POTENTIAL AND MOTION OF CHARGED PARTICLES IN AXISYMMETRIC MAGNETIC FIELD
NASA-RP-293 N64-28354 20-24

CROSSED ELECTRIC AND MAGNETIC FIELDS USED TO FOCUS BEAM OF CHARGED PARTICLES AND CONTROL DRIFT VELOCITY
R-214 N64-28503 20-08

NEUTRON AND CHARGED PARTICLE INDUCED REACTIONS, MOSSBAUER EFFECT INVESTIGATIONS, ATOMIC BEAM STUDIES, AND DECAY OF SHORT-LIVED RADIONUCLIDES
ANL-6879 N64-28726 20-23

DYNAMIC BEHAVIOR OF FLUID CONSISTING OF ELECTRICALLY CHARGED PARTICLES HAVING SPIN - MAGNETOGASDYNAMICS
NASA-TM-X-55001 N64-28757 20-24

MOVEMENT OF STRONG CHARGED PARTICLE BEAMS IN HIGH VOLTAGE ELECTROSTATIC FIELDS
FTD-TT-63-514/1&2 N64-29017 20-24

CHARGED PARTICLE RESEARCH - TRAPPED VAN ALLEN RADIATION AND INTERPLANETARY COSMIC RAYS
N64-29400 21-12

CHARGE COMPOSITION OF ENERGETIC PARTICLES IN SOLAR COSMIC RAYS N64-30279 22-28

ORIGIN OF SOLAR FLARES AND ACCELERATION OF CHARGED PARTICLES N64-30295 22-28

OPERATION OF SKIMMER NOZZLE AND USE AS COLLOIDAL ION SOURCE AND FOR SYNTHESIS OF CHEMICAL SUBSTANCES, CLUSTER IONS, OR CHARGED BODIES
TN-R-90 N64-30760 22-27

HEAVY PARTICLE ELECTRIC PROPULSION
N64-31602 23-27

HEAVY PARTICLE ELECTRIC PROPULSION - COLLOIDAL CHARGED DROPLETS N64-31603 23-27

CHARGED PARTICLE FLUX AND ENERGY SPECTRA IN LAYERS OF MAGNETOSPHERE DETERMINED BY P-11 SUBSATELLITE
ASE-546 N64-31843 23-28

GAS DISCHARGE COUNTER FOR CHARGED COSMIC RADIATION PARTICLES
FTD-MT-64-45 N64-32240 23-15

LANGMUIR PROBE RESPONSE TO PERIODIC WAVEFORM AND APPLICATION TO STUDY OF LABORATORY PLASMAS OR CHARGED PARTICLES IN SPACE N64-33151 24-24

CHARGED PARTICLE TRAJECTORIES IN CURRENT SHEET BASED ON OPEN MODEL OF MAGNETOSPHERE
AFCRL-64-726 N64-33550 24-28

CHARGED PARTICLE MOTION IN AN INHOMOGENEOUS MAGNETIC FIELD
GSP/PHYS/64-15 N64-33878 24-24

CHART
CF GRAPH
CF MAP
NATIONAL AVIATION SYSTEM /NAS/ CHART OVERLAYS FOR AIR TRAFFIC CONTROL N64-10181 01-04

CHEBYSHEV APPROXIMATION
CHEBYSHEV METHOD FOR ELECTROMAGNETIC FIELD SOLUTION OF RADAR CROSS SECTION OF PLASMA WAKE N64-15254 07-24

CHEBYSHEV APPROXIMATION BY RATIONAL FUNCTIONS
R-427-PR N64-17641 09-20

FOURIER COEFFICIENTS FOR CHEBYSHEV POLYNOMIALS FOR ANTENNA ARRAY DESIGN
AFCRL-62-726 N64-22304 15-20

CHEBYSHEV POLYNOMIALS USED FOR APPROXIMATE INTEGRATION OF ORDINARY DIFFERENTIAL EQUATIONS
VKI-TN-18 N64-27372 19-20

CHECKOUT EQUIPMENT
HUMAN ENGINEERING IN MONITORING AND CHECKOUT EQUIPMENT
WDL-TR-1968 N64-13972 05-14

PLACE - PROGRAMMING LANGUAGE FOR AUTOMATIC CHECKOUT EQUIPMENT
RTD-TDR-4171, VOL. 2 N64-20108 13-20

PLACE - PROGRAMMING LANGUAGE FOR AUTOMATIC CHECKOUT EQUIPMENT AND ADAPTATIONS FOR DIGITAL COMPUTER CONTROLLED CHECKOUT MACHINE
RTD-TDR-4171, VOL. 1 N64-20171 13-20

AUTOMATIC CHECKOUT EQUIPMENT FOR ACCELEROMETERS N64-20243 13-15

STUDY OF SECONDARY PHENOMENA FOR CHECKOUT OF ELECTRONIC COMPONENTS AND CIRCUITRY
SRL-491-TDR-1 N64-21356 14-09

TITAN III ICBM INTEGRATED ELECTRONIC CHECKOUT AND LAUNCH CONTROL SYSTEM
SSD-TDR-64-35 N64-22378 15-10

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINE, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-19 N64-31577 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-20 N64-31578 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-21 N64-31579 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-22 N64-31580 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT SYSTEM, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-23 N64-31581 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT SYSTEM, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-24 N64-31582 23-27

CHELATE COMPOUND
CF ORGANOMETALLIC COMPOUND
REMOVING RADIOACTIVE ISOTOPES FROM ORGANISMS BY CHEMICAL MEANS - CHELATE AND OTHER COMPLEXES
JPRS-18775 N64-10456 01-16

PHYSICAL PROPERTIES OF METALLOID COMPOUNDS - BORIDES, CARBIDES, NITRIDES, AND SILICIDES OF TRANSITION ELEMENTS N64-10670 02-18

QUALITATIVE AND QUANTITATIVE INVESTIGATIONS OF BRITTLENESS OF REFRACTORY METALLOID COMPOUNDS N64-10673 02-13

PREPARATION OF COMPOUNDS OF TRANSITION METALS WITH POLYHALOCARBONS & HETEROCYCLES - CHELATES
AD-426470 N64-14102 05-07

SILICON CRYSTALS, NITROGEN-SULFUR SYSTEMS, PHOTOCHEMISTRY, PLASMAS, AND CHELATES USED IN ENERGY CONVERSION SYSTEMS
AFCRL-63-940 N64-15489 07-01

ELECTRICAL AND OPTICAL PROPERTIES OF SOME METAL CHELATES N64-15494 07-23

INFRARED AND CHEMICAL STUDY ON CRYSTALS OF RARE-EARTH ETHYLENEDIAMINE TETRAACETIC ACID CHELATES
AEET/CD/16 N64-15720 07-25

SPECTROSCOPIC PROPERTIES OF RARE EARTH CHELATE COMPOUNDS SUITABLE FOR HIGH POWER LASERS
EOS-3180-FINAL N64-19737 12-25

KINETIC EQUATIONS FOR PLASMA TURBULENCE AND CATALYTIC ACTIVITY OF CHELATE POLYMERS
FTD-TT-62-1795/1&2&4 N64-22997 16-24

CATALYTIC ACTIVITY OF ORGANOMETALLIC CHELATE POLYMERS N64-22999 16-07

CHELATE POLYMERS OF BIS-DITHIOCARBAMIC ACIDS AND METALS
T-R-432 N64-29598 21-07

EUROPIUM BENZOYLACETONATE LASER PROCESSES
TR-63-052.2 N64-31142 22-25

CHEMICAL ANALYSIS
CHEMICAL ANALYSIS OF AMMONIUM PERCHLORATE-POLYURETHANE PROPELLANT
CARDE-TR-426/63 N64-10991 02-07

DETERMINATION OF TRACE AMOUNTS OF BORON IN MOLYBDENUM
RTD-TDR-63-4082 N64-12578 04-07

CHEMICAL DETECTORS - BIBLIOGRAPHY
LANS-2378 /VOL. 2/ N64-18397 10-07

ORGANIC COMPOUND ANALYSIS - LIFE DETECTION METHOD FOR SPACE
NASA-CR-52217 N64-20682 13-16

POLAROGRAPHIC MEMBRANE FOR DETECTING PENTABORANE GAS - INFRARED DETECTOR - ANALYSIS OF CRYOGENIC PROPELLANTS & PENTABORANE-HYDRAZINE FIRING RESIDUE
R-5462 N64-21061 14-26

CHEMICAL DETECTION METHODS TO EVALUATE TOXICITY IN CLOSED ECOLOGICAL SYSTEM N64-24618 17-07

INFRARED SPECTROSCOPY AND USE IN CHEMICAL ANALYSIS
JPRS-25356 N64-27129 19-07

MODIFIED KJELDAHL METHOD FOR CHEMICAL ANALYSIS OF NITROGEN IN POTASSIUM
R63FPD302 N64-28065 20-07

DETERMINATION OF TRACE QUANTITIES OF URANIUM IN ALUMINUM - CHEMICAL SEPARATION AND SPECTROPHOTOMETER MEASUREMENT
K-1524 N64-28244 20-07

CHEMICAL ANALYSIS OF ELEMENT ABUNDANCES IN TEKTITES
NASA-RP-291 N64-28414 20-12

CHEMICAL ANALYSIS OF HEAVY ATOMS IN LOW ATOMIC NUMBER MEDIA BASED ON RAYLEIGH SCATTERING OF X-RADIATION FROM RADIOISOTOPE SOURCE
TID-20643 N64-30745 22-23

CHEMICAL ANALYSIS OF ANCIENT GLASS SPECIMENS
BNL-879/T-354/ N64-30751 22-19

SEMI-QUANTITATIVE SPECTROCHEMICAL ANALYSIS OF RHENIUM
NASA-CR-59273 N64-33326 24-13

CHEMICAL BOND
VALENCE BOND METHOD APPLIED TO JAHN-TELLER EFFECT
AD-428802 N64-14472 06-25

MEASUREMENT OF RANDOM BOND SCISSION IN RUBBER NETWORKS BY MEASUREMENT OF STRESS RELAXATION AT CONSTANT EXTENSION

ONR-TR-RLT-71 N64-16965 09-19

MEASUREMENT OF RANDOM BOND SCISSION IN RUBBER NETWORKS BY MEASUREMENT OF STRESS RELAXATION AT CONSTANT EXTENSION
ONR-TR-RLT-71 N64-16965 09-19

CHAIN TRANSFER EXPLANATION OF ANIONIC POLYMER FORMATION OF 9-VINYLANTHRACENE - POLYMER CHEMISTRY
NASA-CR-53570 N64-18449 10-07

BOND MECHANISM INVOLVED IN CHEMICALLY BONDED ZIRCONIA
SM-45945 N64-19010 11-12

WETTING AND BONDING BETWBEN METALS AND OXIDES - ALUMINUM OXIDE AND NICKEL SYSTEM
AMRA-CR-63-01/6 N64-22709 15-17

CYCLOHEXANE INTERACTION WITH METALLIC CATALYST SURFACE, CHEMICAL BOND IN ELECTRONIC PARAMAGNETIC RESONANCE SPECTRA OF MANGANESE, AND ELECTROSTATIC ADSORPTION OF IONS
JPRS-25115 N64-22738 16-07

MAGNETIC AND CRYSTALLOGRAPHIC PROPERTIES OF COMPOUNDS WITH TRANSITION METAL-METAL BONDING
E&D-TDR-64-25 N64-23923 16-23

CARBON-HYDROGEN BONDING IN HYDROCARBON COMPOUNDS - METHYL HALIDES
AFCRL-64-486 N64-26184 18-07

EMPIRICAL FORMULAS FOR CLEAVAGE ENERGY OF BORON BOND N64-26399 18-07

PARAMETERS AND STRUCTURES OF CARBON-OXYGEN BONDS
AFCRL-64-508 N64-28609 20-07

SYNTHESIS OF COMPLEXES OF QUATERNARY ARSENIC ATOMS LINKED TO SAME CARBON ATOM
TR-1 N64-28665 20-07

THEORETICAL AND QUANTUM CHEMISTRY OF ENERGETIC NITROGEN, OXYGEN, FLUORINE COMPOUNDS - FUNDAMENTAL BONDING AND BEHAVIOR
QTR-2 N64-32095 23-07

CHEMICAL COMPOSITION
RELATION OF CHEMICAL COMPOSITION TO IGNITION CHARACTERISTICS OF HYPERGOLIC LIQUID BIPROPELLANTS N64-10005 01-26

FORMATION FACTORS, COMPOSITION, AND CHEMICAL & PHYSICAL NONUNIFORMITIES OF EARTH CRUST N64-10282 01-12

MASS SPECTROMETRY DETERMINATION OF ISOTOPIC COMPOSITION OF ELEMENTS
ORNL-3528 N64-11822 03-27

CHEMICAL ANALYSIS AND COMPOSITION OF MITOCHROME AND CYTOCHROME OXIDASE FROM RAT LIVER MITOCHONDRIA
NADC-MA-6319 N64-12255 03-16

CHEMICAL COMPOSITION, STABILITY, AND ELECTRICAL & MECHANICAL PROPERTIES OF POLYORGANOSILOXANES AND POLYORGANOMETALLIC SILOXANE POLYMERS N64-12807 04-07

VARIATION OF GRAPHITE PROPERTIES WITH CHEMICAL STRUCTURE, AND CARBONIZATION STUDIES
WADD-TR-61-72, VOL. 27 N64-15579 07-19

CHEMICAL COMPOSITION AND DIGESTIBILITY OF ALGAL CELL WALLS
IITRI-L6002-4 N64-15586 07-16

LINEAR CORRELATION OF MAGNETIC SUSCEPTIBILITY WITH CHEMICAL COMPOSITION OF MINERALS
BM-RI-6379 N64-16016 07-19

EFFECT OF CHEMICAL COMPOSITION AND ADDITIVES ON FUEL COMBUSTION IN JET ENGINES
FTD-TT-62-743/1&2&4 N64-16059 07-26

CHEMICAL COMPOSITION & PROPERTIES CHARACTERISTIC TO NICKEL-ALLOY METALLURGY N64-17079 09-17

TENSILE FRACTURE, MICROSTRUCTURE, AND CHEMICAL COMPOSITION OF URANIUM
BMI-1664 N64-17298 09-11

CHEMICAL COMPOSITION OF CHONDRITES AND ORIGIN OF METEORITES N64-19497 12-05

RADIOACTIVE CHEMICALS IN OCEAN WATER N64-23323 16-12

CHEMICAL COMPOSITION OF UNIVERSE N64-24501 17-05

CHEMICAL COMPOSITION OF PLANETS N64-24763 17-29

CHEMICAL COMPOSITION OF SUN, EARTH, AND METEORITES N64-24768 17-29

CHEMICAL COMPOSITION OF STELLAR ATMOSPHERES N64-24777 17-29

RELATION BETWEEN CHEMICAL STRUCTURE OF SUBSTANCE AND BIOLOGICAL EFFECT
FTD-TT-64-581/1&4 N64-26736 18-14

SELF-PURIFICATION OF CESIUM 137 FROM WATER AND CHEMICAL COMPOSITION OF ALGAE
JPRS-26056 N64-29032 21-14

CHEMICAL COMPOSITION OF VARIOUS ALGAE SPECIES N64-29034 21-14

CHEMICAL COMPOSITION, STRUCTURE, AND CRYSTALLIZATION OF IRON METEORITES
FTD-MT-64-283 N64-30688 22-05

CHEMICAL COMPOSITIONS AND THERMODYNAMIC CALCULATIONS OF FIREFLY PROJECT N64-31377 23-12

PAYLOAD CHEMICAL COMPOSITIONS AND CALCULATED RELEASE PRODUCTS - FIREFLY PROJECT N64-31378 23-12

EFFECTS OF VARIATIONS IN CARBON CONTENT AND ALLOYING ELEMENT CONTENT ON MECHANICAL PROPERTIES OF STEELS CONTAINING NICKEL, CHROMIUM, AND MOLYBDENUM
S-11211 N64-32055 23-11

VACUUM SPECTROSCOPY FOR CHEMICAL COMPOSITION OF CELESTIAL BODIES
JPRS-26769 N64-32128 23-05

CHEMICAL COMPOSITION OF UREA-EXTRACTABLE COMPONENTS OF PLAGUE VIRUS EV
JPRS-26858 N64-32165 23-14

INFLUENCE OF CHEMICAL COMPOSITION ON STRUCTURE AND METAL INDEX OF STELLAR ATMOSPHERES
NASA-RP-331 N64-33020 24-29

IONIZATION DETECTORS IN GAS CHROMATOGRAPHY SYSTEMS ANALYZING CHEMICAL COMPONENTS OF LUNAR SURFACE
NASA-CR-59301 N64-33683 24-11

RHENIUM DETERMINATION IN RHENIUM-URANIUM-ZIRCONIUM CARBIDE USING X-RAY ABSORPTION EDGE METHOD
LA-3135 N64-33879 24-07

CHEMICAL COMPOSITION OF METEORITES FOUND IN CHINA N64-34008 24-07

CHEMICAL COMPOUND
ENTROPY AND HEAT CAPACITY CALCULATIONS OF CHEMICAL COMPOUNDS AT LOW AND HIGH TEMPERATURES - THERMODYNAMIC PROPERTIES N64-18824 11-13

DIFFUSION AND TURBULENCE IN UPPER ATMOSPHERE - CHEMICAL RELEASE STUDIES
NASA-CR-53933 N64-19957 12-12

BIOCHEMICAL COMPOUND TO RAISE THERMAL RESISTANCE OF ORGANISMS N64-22729 16-14

MECHANISM OF ENCAPSULATION AND PERMEABILITY OF POLYMERS, SOLID PROPELLANTS, AND CHEMICAL COMPOUNDS

AD-601772 N64-24849 17-07

THERMIONIC WORK FUNCTIONS OF CHEMICAL COMPOUNDS AND RELATION TO ELECTRONIC AND CRYSTAL STRUCTURES
NASA-CR-56907 N64-25574 17-18

OPTICAL SPECTRA OF LOW MOLECULAR WEIGHT COMPOUNDS FORMED IN EXHAUST GASES OF ROCKET MOTORS
LITRI-C6013-5 N64-32962 24-07

CHEMICAL EFFECT
CHEMICAL & BIOLOGICAL ACTION OF ULTRASONIC WAVES
JPRS-21-590 N64-10198 01-16

ACTION MECHANISM OF MEDICINAL SUBSTANCES ON HUMAN CELLS AND TISSUES AND TREATMENT OF ENSUING ILLNESS
JPRS-22292 N64-11781 03-16

RADIATION AND CHEMICAL GENETIC EFFECTS
JPRS-22581 N64-12701 04-16

CHEMICAL STERILIZATION N64-14372 06-16

TOXIC CHEMICALS AND LABOR CONDITIONS IN CHEMICAL INDUSTRY
JPRS-23045 N64-14526 06-16

MODELS OF GAS FLOWS WITH CHEMICAL AND RADIATIVE EFFECT N64-25105 17-11

CHEMICAL AND RADIATION EFFECT IN HYPERSONIC AERODYNAMICS N64-26148 18-02

CHEMICAL METHODS TO PROTECT BIOLOGICAL SYSTEMS AGAINST IONIZING RADIATION N64-29074 21-16

MECHANISMS OF CHEMICAL PROTECTION AGAINST RADIATION IN LIVING ORGANISMS - RADIOBIOLOGY
JPRS-26842 N64-31313 22-16

CHEMICAL EQUILIBRIUM
SA MOLECULAR DISSOCIATION
COMPUTED CHEMICAL EQUILIBRIA OVER LONG RANGE OF HIGH TEMPERATURES BETWEEN ROCKET EXHAUST GASES AND COMPOUNDS OF TANTALUM, TUNGSTEN, AND HAFNIUM
U-2384/2 N64-12866 04-07

AUTOMATIC DIGITAL COMPUTATION OF GIBBS EQUATION AND MASS ACTION FUNCTIONS FOR CHEMICAL EQUILIBRIUM
RM-3935-PR N64-14011 05-07

HYPERSONIC LAMINAR AND TURBULENT VISCOUS WAKE AT CHEMICAL EQUILIBRIUM
R63SD01 N64-17368 09-11

MASS SPECTROMETRIC STUDY OF CHEMICAL EQUILIBRIUM INVOLVING METALS IN BURNT GAS REGION OF FLAMES N64-18816 11-26

MOLLIER DIAGRAM SHOWING THERMODYNAMIC PROPERTIES OF AIR IN CHEMICAL EQUILIBRIUM N64-19079 11-23

BEHAVIOR OF CHEMICAL EQUILIBRIUM SYSTEM WHEN FREE ENERGY PARAMETERS ARE CHANGED
RM-4128-PR N64-22619 15-20

COMPUTER PROGRAM FOR CHEMICAL EQUILIBRIUM COMPLEX - MOLLIER DIAGRAM
DCAS-TDR-62-138, VOL. II N64-22964 16-07

EQUILIBRIUM COMPOSITION AND THERMODYNAMIC PROPERTIES OF CYANOGEN-OXYGEN COMBUSTION PRODUCTS
NASA-TN-D-2422 N64-27924 20-26

METHOD OF TRANSFORMATION OF COMPLEX CHEMICAL EQUILIBRIUM PROBLEMS INTO SIMPLE PROBLEMS FOR NUMERICAL SOLUTION
RM-4205-PR N64-31818 23-07

CHEMICAL KINETICS
PROBLEMS IN CHEMICAL KINETICS AND HETEROGENEOUS CATALYSIS
JPRS-17941 N64-10491 01-07

RESONANCE THEORY OF CHEMICAL REACTION RATES
JPRS-21897 N64-10518 01-07

EFFECT OF NOZZLE EXPANSION RATIO INCREASE ON HEAT TRANSFER, CHEMICAL KINETICS, WALL FRICTION AND NOZZLE GEOMETRY - SPACECRAFT ENGINE PERFORMANCE
NASA-CR-52870 N64-11438 02-27

SQUID PROJECT FLUID MECHANICS, TRANSPORT AND TRANSFER PROCESSES, CHEMICAL KINETICS, AND COMBUSTION PHENOMENA
AD-420576 N64-13476 05-01

STEADY DETONATION WAVES IN OZONE - CHEMICAL KINETICS IN SQUID PROJECT N64-13484 05-24

KINETICS OF ELEMENTARY REACTIONS OF HYDROGEN AND FLUORINE - SQUID PROJECT N64-13485 05-24

CHEMICAL KINETICS IN HIGH TEMPERATURE GASES - SQUID PROJECT N64-13486 05-24

CHEMICAL KINETICS AND GAS DYNAMICS OF ATOM AND FREE-RADICAL REACTIONS - SQUID PROJECT N64-13488 05-24

OXIDATION KINETICS OF NIOBIUM IODIDE USING IODIDE REFINING AND ELECTRON BEAM REMELTING METHODS N64-13733 05-07

CHEMICAL REACTION KINETICS, THEORY OF LIQUIDS, AND OPTICAL ROTATION STUDIES
PR-3 N64-14172 06-23

KINETIC REGULARITIES OF PRIMARY REACTIONS AND CHEMICAL PROTECTION IN RADIATION DAMAGE N64-16908 09-16

REACTION KINETICS OF IRON CYANIDE/FERRIC WITH BOROHYDRIDE IN AQUEOUS SOLUTION
UCRL-11252 N64-17979 10-07

FLUID MECHANICS, TRANSPORT PROPERTIES, CHEMICAL REACTION KINETICS, AND COMBUSTION - SQUID PROJECT
AD-435879 N64-18851 11-24

KINETICS OF CHEMICAL REACTIONS IN HIGH TEMPERATURE GAS BY DILUTE DIFFUSION FLAME - SQUID PROJECT N64-18860 11-24

CHEMICAL KINETICS AND GAS DYNAMICS OF ATOM AND FREE RADICAL REACTIONS N64-18862 11-26

KINETICS OF HYDROLYSIS OF MAGNESIUM FLUORIDE AT HIGH TEMPERATURES - CHEMICAL REACTION
UCRL-11103 N64-19098 11-07

CHEMICAL KINETICS GOVERNING CARBON DIOXIDE FORMATION INDUCED BY SHOCK WAVE TRAVELING THROUGH ARGON-CARBON DIOXIDE MIXTURES
GD/A-DBE-64-002 N64-21355 14-24

EXPLOSIVE REACTIONS IN CONDENSED SYSTEMS - KINETICS OF THE THERMAL DECOMPOSITION OF TRINITROTOLUENE
TIL/T-5435 N64-21400 14-07

DISSOCIATED GAS STUDIES, MOLECULAR BEAM CHEMICAL KINETIC STUDIES, AND ROCKET NOZZLE FLUID DYNAMICS
SR-4-53 N64-25724 17-11

KINETIC STUDY OF ELECTRONS IN WEAKLY IONIZED GASES - ARGON, ARGON-HYDROGEN, & ARGON-CARBON MONOXIDE
AFCRL-64-444 N64-26236 18-24

RELATION OF DISSOLUTION KINETICS AND RESISTANCE TO PITTING CORROSION USING ELECTROCHEMISTRY
TR-4 N64-28160 20-18

KINETICS AND MECHANISM OF PYROLYSIS OF HYDROCARBONS N64-28181 20-07

DEIONIZATION OF HIGHLY IONIZED ATMOSPHERE - CHEMICAL KINETICS CONTROLLING ELECTRON DENSITY DECAY FOLLOWING NUCLEAR EXPLOSION
AFCRL-64-496 N64-28566 20-07

REACTION KINETICS OF NITROGEN DIOXIDE WITH HYDRAZOIC ACID IN GAS PHASE
TIL/T-5369 N64-28805 20-07

KINETICS OF REACTION OF TRANS-DICHLORODIAMINE

PLATINUM WITH HYDROXIDE
IS-883 N64-30128 21-07

MASS SPECTRAL STUDY OF KINETICS BEHIND SHOCK WAVES - THERMAL DISSOCIATION OF CHLORINE
DOW-AR-25-63 N64-30201 21-07

NUCLEAR, INORGANIC, ISOTOPE, RADIATION, & ORGANIC CHEMISTRY - AQUEOUS SYSTEMS, ELECTROCHEMICAL KINETICS, CHEMICAL PHYSICS, AND WATER RESEARCH
ORNL-3679 N64-30664 22-07

CHEMICAL KINETICS OF SODIUM IN REENTRY - ELECTRON DENSITY AND RADIATION
R64SD33 N64-30980 22-07

PREPARATION OF GAS MIXTURES FOR SHOCK TUNNEL TESTS OF CARBON DIOXIDE FORMATION - CHEMICAL KINETICS
GDA-DBE-64-044 N64-31113 22-07

CHEMICAL KINETICS OF BOROHYDRIDE ION FORMATION
QSR-6 N64-31317 22-07

CHEMICAL KINETICS OF REACTION OF COPPER WITH OXYGEN DISSOLVED IN COPPER AND TIN
N64-31410 23-07

CHEMICAL KINETICS OF COMBUSTION OF HOMOGENEOUS GAS MIXTURES IN LIQUID PROPELLANT ROCKET ENGINES
FTD-MT-64-272 N64-32241 23-26

HIGH TEMPERATURE GAS FLOW RESEARCH - DISSOCIATED GASES, MOLECULAR BEAM CHEMICAL KINETICS, AND ROCKET NOZZLE FLUID DYNAMICS
SR-4-2 N64-32281 23-26

ANALYTICAL METHODS TO STUDY CHEMICAL KINETICS OF FERMENTATION
USAEL-TR-2483 N64-32441 23-07

CHEMICAL KINETICS OF SODIUM IN REENTRY CONDITIONS
REPT.-6450810 N64-32460 23-07

CHEMICAL PROPERTY

CHEMICAL AND MECHANICAL PROPERTIES OF ALUMINUM, NICKEL, STEEL AND TITANIUM ALLOYS
NASA-CR-52533 N64-10341 01-18

FUNDAMENTAL CHEMICAL PROPERTIES AND BEHAVIOR OF FUEL CELLS
NASA-CR-52710 N64-10906 02-07

PHYSICAL AND CHEMICAL PROPERTIES, CHARACTERISTICS, INORGANIC AND ORGANIC COMPOUNDS OF POLONIUM
MLM-1165 N64-13381 04-23

NUCLEIC ACIDS - RIBONUCLEIC AND DESOXYRIBONUCLEIC ACIDS - PHYSICAL & CHEMICAL PROPERTIES AND ROLE IN PROTEIN SYNTHESIS
JPRS-24070 N64-18328 10-16

PHYSICAL AND CHEMICAL PROPERTIES OF SINGLE-STRAND DESOXYRIBONUCLEIC ACID N64-18329 10-16

COPOLYCONDENSATION OF BORON AND PHOSPHORUS DIFUNCTIONAL ACIDS N64-18486 10-07

PHYSICAL AND CHEMICAL PROPERTIES OF REFRACTORY METALS
ERR-AN-049A N64-18944 11-18

SYNTHESIS AND PHYSICAL & CHEMICAL PROPERTIES OF GERMANIUM FLUORPHLOGOPITE COMPOUND
BM-RI-6443 N64-20488 13-19

CHEMICAL AND PHYSICAL PROPERTIES OF AZIDES FOR INFLATABLE SOLAR ENERGY COLLECTORS
NASA-CR-53991 N64-20582 13-06

CHEMICAL PROPERTIES AND BEHAVIOR OF FUEL CELLS
NASA-CR-56171 N64-20814 14-06

SYNTHESIS AND PROPERTIES OF FLUORIDES AND PLASMA REACTIONS OF FLUOROCARBONS
AD-439596 N64-20855 14-07

PHYSICAL AND CHEMICAL PROPERTIES OF THICK OXIDE FILMS OF ANODIZED ALUMINUM ALLOYS
N64-20923 14-18

HIGH TEMPERATURE CHEMICAL & PHYSICAL PROPERTIES OF ROCKET NOZZLE MATERIALS
AD-442218 N64-25554 17-11

CHEMICAL AND PHYSICAL PROPERTIES OF AMMONIUM NITRATE-ALUMINUM MIXTURE
NOLTR-64-63 N64-27919 20-07

CHEMICAL PROPERTIES OF AGTIVE ALKALI AZIDES AND BARIUM AZIDE
MTSR-2 N64-28152 20-07

CHEMICAL AND PHYSICAL PROPERTIES OF CHROMIUM-GADOLINIUM SYSTEM
BM-RI-6503 N64-28695 20-14

CHEMICAL PROPERTIES OF CHEMILUMINESCENT PROCESSES AND COMPOUNDS
AFOSR-64-1271 N64-30035 21-07

PHYSICAL AND CHEMICAL CHARACTERISTICS OF BALLOONS AND BALLOON MATERIALS - FLIGHT CONDITION EFFECTS ON BALLOON PERFORMANCE
AD-601997 N64-30194 21-19

CHEMICAL PROPERTIES AND QUALITATIVE ANALYSIS OF CARBIDES, BORIDES, AND NITRIDES
FTD-TT-63-814/1&2 N64-30689 22-07

CHEMICAL PROPERTIES AND STRUCTURES OF CYCLOBUTADIENE N64-31575 23-07

CHEMICAL AND PHYSICAL PROPERTIES OF TERNARY PHASES OF TUNGSTEN AND TUNGSTEN-BASE ALLOY OXIDATION
ML-TDR-64-230, PT. I N64-31970 23-18

PHYSICAL AND MECHANICAL PROPERTIES OF LOW NICKEL CARBURIZING STEELS
JPRS-26959 N64-32304 23-18

PHYSICAL AND CHEMICAL PROPERTIES OF ANHYDROUS METAL NITRATES
ATR-23 N64-32367 23-07

PHYSICAL AND CHEMICAL PROPERTIES AFFECTING HIGH TEMPERATURE MATERIALS FOR ROCKET NOZZLES
AD-448482 N64-32547 23-07

CHEMICAL PROPERTIES & SOLUBILITY OF OZONE FLUORIDE IN LIQUID OXYGEN AND HYPERGOLIC IGNITION BETWEEN HYDROGEN AND LIQUID OXYGEN
NASA-CR-54072 N64-32632 23-26

CHEMICAL PROPERTIES OF FERROCENE AND RELATED COMPOUNDS
AD-600969 N64-32822 24-07

ELECTRIC AND CHEMICAL PROPERTIES OF BARRIER LAYER METAL OXIDES, X-RAY ANALYSIS OF STEEL CRYSTAL STRUCTURES, AND SPECTRAL ANALYSIS OF ALLOYS
JPRS-26774 N64-32842 24-18

PHYSICAL AND CHEMICAL PROPERTIES OF IRON-CHROMIUM-NITROGEN ALLOYS
AD-445860 N64-32983 24-18

PREPARATION AND CHEMICAL AND PHYSICAL PROPERTY STUDY OF BORANE AND TRIBOROHYDRIDE DERIVATIVES OF METHYLATED POLYAMINES
UCRL-7973 N64-33237 24-07

CHEMICAL PROPULSION

HEATS OF FORMATION AND THERMODYNAMICS OF ORGANIC DERIVATIVES OF LIGHTER ELEMENTS FOR CHEMICAL PROPULSION N64-19031 11-07

COMPARISON OF ELECTRIC PROPULSION SYSTEMS WITH NUCLEAR OR CHEMICAL PROPULSION FOR SPACE MISSIONS
AIAA PAPER-64-715 N64-28372 20-27

DIFFERENTIATION BETWEEN NUCLEAR AND CHEMICAL PROPULSION SYSTEMS IN SPACE VEHICLES
NASA-CR-52961 N64-29782 21-27

TURBULENCE IN ARC PLASMA JET WITH ELECTROMAGNETIC INDUCTION
CPIA-48 N64-30012 21-01

DETONATION WAVE STUDY FOR APPLICATION TO CHEMICAL

PROPULSION SYSTEMS, NUCLEAR PROPULSION, AND PULSED PLASMA ACCELERATORS
AD-621130 N64-32873 24-27

CHEMICAL REACTION
SA ALKYLATION
SA CARBONIZATION
SA DECOMPOSITION
SA DEHYDRATION
SA DISSOCIATION
SA ELECTROLYSIS
SA HYDROGENATION
SA HYDROLYSIS
SA ION EXCHANGE
SA NEUTRALIZATION
SA NITRATION
SA NITROLYSIS
SA OXIDATION
SA POLYMERIZATION
SA SYNTHESIS
MECHANISMS OF RADIATIONAL-CHEMICAL REACTIONS FOR CONVERSION OF ORGANIC COMPOUNDS - HYDROCARBONS AND CONDENSED PHASES
JPRS-19876 N64-10834 02-07

HEAT EXCHANGE OF HEATED BODIES IN GAS FLOW DURING NONEQUILIBRIUM EXOTHERMAL CHEMICAL REACTIONS
FTD-MT-63-95/1&2&3&4 N64-14379 06-13

ULTRASONICS IN CHEMICAL REACTIONS, ULTRASONIC TRANSDUCER PRODUCTION, AND CONTROL BY ULTRASONICS
FTD-MT-63-106/1&3&4 N64-14385 06-23

TRANSPIRATION COOLING WITH CHEMICAL REACTIONS
AEROCHEM-TP-79 N64-15702 07-13

CHEMICAL PHOTOGRAPHIC MEASUREMENTS BY USING POTENTIAL OF OXIDATION-REDUCTION REACTIONS
N64-16210 08-15

BIBLIOGRAPHY ON HIGH TEMPERATURE CHEMICAL REACTIONS
REPT.-10 N64-16555 08-07

SPECTRAL EMISSIVITY STUDY OF CHEMICAL FLASHES PRODUCED BY COMBUSTION REACTIONS
NA-64-105 N64-16984 09-26

CHEMICAL REACTION TO PREPARE ALUMINUM-SILICON POLYMERIC COMPOUNDS
RSIC-134 N64-17480 09-07

REACTION STUDY OF ROCKET ENGINE EXHAUST PRODUCTS
GR-7414-10 N64-17869 10-26

EFFECT OF ADDITIVES ON RADIOLYSIS PRODUCTS OF ORGANIC CHAIN REACTIONS
NYO-10025 N64-18413 10-07

CHEMICAL REACTION YIELDING NONEQUILIBRIUM IONIZATION - SQUID PROJECT N64-18858 11-07

HIGH SPEED CHEMICAL REACTIONS /DETONATIONS/ IN OZONE - SQUID PROJECT N64-18859 11-23

REACTIONS OF IONS WITH GASEOUS ATOMS AND MOLECULES AND REACTIONS GIVING NONEQUILIBRIUM IONIZATION - SQUID PROJECT N64-18861 11-07

QUANTUM MECHANICS OF LOW ENERGY, HEAVY PARTICLE COLLISIONS IN CHEMICAL REACTIONS
NASA-CR-53683 N64-19606 12-23

CHEMICAL REACTIONS OF IRRADIATED POLYMERS
AEC-TR-6372 N64-20508 13-07

RATES OF CHEMICAL REACTIONS AND DISSIPATION OF CHEMICAL SPECIES IN TURBULENT FLOW FIELDS WITH LARGE INHOMOGENEITIES
BSD-TDR-64-59 N64-20864 14-07

ELUCIDATION OF ORGANIC ELECTRODE REACTIONS
N64-22889 16-06

MIXING AND SECOND ORDER IRREVERSIBLE CHEMICAL REACTION IN TURBULENT FLOW REACTOR
UCRL-7052 N64-22947 16-23

CHEMICAL REDUCTION USING SOLUTION OF CALCIUM IN MOLTEN SALT
UCRL-11205 N64-23331 16-19

SOLUTION OF HYDRODYNAMIC EQUATIONS FOR FLAME FRONT CHEMICAL REACTIONS N64-23654 16-11

LAMINAR BOUNDARY LAYER WITH CHEMICAL REACTION FRONT ON POROUS PLATE N64-23678 16-11

CHEMICAL REACTIONS AND IONIZATION PHENOMENA DURING LAUNCH AND REENTRY - BIBLIOGRAPHY
BMI-197-10-2 N64-25110 17-23

REACTIONS OF ZIRCONIUM AND HAFNIUM CARBIDES AND BORIDES WITH OXYGEN- OR HALOGEN-CONTAINING ATMOSPHERES
ASD-TDR-62-204, PT. III N64-25473 17-18

THEORETICAL STUDIES OF INVISCID HYPERSONIC FLOWS WITH CHEMICAL REACTIONS N64-26133 18-02

CHEMICAL SYNTHESIS AT CRYOGENIC TEMPERATURES
N64-26325 18-07

SUPERSONIC FLOW, CHEMICAL PROCESSES, AND RADIATIVE TRANSFER N64-26326 18-11

INFLUENCE OF CHEMICAL REACTIONS ON FLOW
N64-26327 18-11

DECAY ANALYSIS OF INITIAL NONEQUILIBRIUM STATE OF BINARY REACTING MIXTURE IN CONSTANT AREA CHANNEL WITHIN LINEAR THERMODYNAMICS
N64-26332 18-02

HEAT AND MASS TRANSFER THROUGH TURBULENT BOUNDARY LAYER ON FLAT PLATE AT HIGH MACH NUMBERS WITH AND WITHOUT CHEMICAL REACTION N64-26334 18-11

THERMOCHEMISTRY OF REFRACTORY ELEMENTS - CHEMICAL REACTIONS APPLIED TO ENGINEERING STRUCTURES
N64-27584 19-18

USE OF SHOCK TUBES IN STUDY OF CHEMICAL REACTIONS AND HYPERSONIC FLOW
PSU-11-P N64-29798 21-11

CHEMICAL REACTIONS IN LAMINAR BOUNDARY LAYERS IN HYPERSONIC FLOW
PIBAL-835 N64-29963 21-11

COMPUTER ANALYSIS OF CHEMICAL EXCHANGE RATE FROM NUCLEAR MAGNETIC RESONANCE SPIN ECHOES
TR-71 N64-30737 22-07

UNSTEADY MASS TRANSFER WITH CHEMICAL REACTION - INITIAL AND BOUNDARY CONDITIONS
D1-82-0365 N64-30825 22-07

HIGH TEMPERATURE MAGNETOGASDYNAMICS, GAS DYNAMICS OF REAL AND CHEMICALLY REACTING GASES, AND DYNAMICS OF RAREFIED GASES
AD-601730 N64-31100 22-24

CHEMICAL REACTIVITY OF HYDROGEN, NITROGEN, AND OXYGEN ATOMS AT CRYOGENIC TEMPERATURES
NASA-CR-58968 N64-32892 24-07

COLLISIONS IN GASES, MAGNETIC SUSCEPTIBILITY OF BERYLLIUM, REACTIONS OF ALLYLIC ALCOHOLS, ACTIVITY COEFFICIENTS, BIOLOGICAL EFFECTS OF RADIATION, AND ECOLOGY OF DRAINAGE AREA
NASA-CR-58839 N64-33048 24-07

EXPERIMENTAL INVESTIGATIONS OF MICROWAVE RADIATION BY CHEMICAL REACTIONS - VENUS ATMOSPHERIC CHEMISTRY
NASA-CR-59112 N64-33190 24-29

RATE CONSTANTS OF IONIZATION AND RECOMBINATION REACTIONS IN HEATED AIR YIELDING HYDROGENIC IONS
TR-3153 N64-33465 24-24

EFFECT OF CHEMICAL REACTIONS ON FLOW AND CATALYTIC ACTIVITY ON REACTION TIMES
ONERA-TP-10/1963/ N64-33739 24-11

REACTIONS OF BERYLLIUM WITH ALUMINUM, NITROGEN, BORON, AND PHOSPHORUS

NAVWEPS-8204 N64-34003 24-18

CHEMICAL RELAXATION
S GAS FLOW

CHEMICAL WARFARE
HYDROGEN TRANSFER, CO-OXIDATION, AND AUTOXIDATION STUDIES FOR DECONTAMINATION OF CHEMICAL WARFARE AGENTS
BPR-5 N64-26635 18-07

MICROMETEOROLOGICAL RESEARCH PROJECT TO AID IN CHEMICAL-BACTERIOLOGICAL-RADIOLOGICAL WARFARE, ROCKET LAUNCHING, AND COMBAT SURVEILLANCE SENSORS
ERDAA-MET-4-64 N64-27794 19-21

WIND CIRCULATION PREDICTION AND DATA PROCESSING SYSTEM FOR CHEMICAL-BIOLOGICAL WARFARE
GCA-TR-64-3-G N64-33842 24-12

CHEMILUMINESCENCE
BRIGHTNESS OF DIFFUSING, CONTAMINANT GLOW CLOUDS IN UPPER ATMOSPHERE - CHEMILUMINESCENCE AND SOLAR RAY SCATTERING
HSA-84 N64-10223 01-12

CHEMILUMINESCENT OZONE BALLOON SONDE FOR MEASURING ATMOSPHERIC OZONE CONCENTRATIONS
AFCRL-64-212 N64-15724 07-07

CHEMILUMINESCENCE FROM ATOMIC OXYGEN-NITRIC OXIDE REACTION UNDER UPPER ATMOSPHERIC CONDITIONS
NASA-CR-55805 N64-16028 07-12

RELATIONSHIP BETWEEN BIOCHEMILUMINESCENCE AND HEAT RESISTANCE OF PLANTS
JPRS-23735 N64-16950 09-16

INTENSITY OF HYDROXYL CHEMILUMINESCENCE FROM HYDROGEN PEROXIDE REACTION WITH SHOCK WAVES
NASA-RP-145 N64-17709 09-24

MEASUREMENTS OF WIND DIRECTIONS AND VELOCITIES AT HIGH ALTITUDES WITH ROCKET RELEASED CHEMILUMINESCENT TRAILS
NASA-TM-X-53064 N64-26806 18-12

REACTION MECHANISMS IN CHEMILUMINESCENCE, STRUCTURAL CRITERIA FOR CHEMILUMINESCENT COMPOUNDS, AND SPECTROSCOPY AND ENERGY TRANSFER STUDIES
TR-4 N64-28818 20-07

CHEMICAL PROPERTIES OF CHEMILUMINESCENT PROCESSES AND COMPOUNDS
AFOSR-64-1271 N64-30035 21-07

CHEMILUMINESCENT TECHNIQUES OF FIREFLY PROJECT FOR NIGHT IONOSPHERE WINDSTORM ANALYSIS IN UPPER ATMOSPHERE N64-31391 23-12

CHEMILUMINESCENCE OF TRIMETHYL ALUMINUM ARTIFICIAL CLOUD IN UPPER ATMOSPHERE - FIREFLY PROJECT N64-31392 23-12

ATMOSPHERIC CHEMILUMINESCENCE OF HYDROCARBON MISSILE EXHAUST - FIREFLY PROJECT N64-31399 23-12

CHEMICAL IONIZATION REACTIONS OF MISSILE EXHAUST PRODUCTS AND ATMOSPHERIC CONSTITUENTS - FIREFLY PROJECT N64-31400 23-12

CHEMISORPTION
CF SORPTION
OXYGEN DETECTOR WHICH OPERATES BY CHEMISORPTION AND DESORPTION FROM TUNGSTEN FILAMENT IN HIGH VACUUM N64-19500 12-07

ISOTOPIC EXCHANGE REACTIONS IN CHEMISORPTION OF OXYGEN ON SILVER AND OTHER ELECTRODES
AD-438942 N64-21291 14-06

OXYGEN ADSORPTION MECHANISMS AT SILVER, GOLD-SILVER, PALLADIUM, PALLADIUM OXIDE, AND PLATINUM ELECTRODE SURFACES - CHEMISORPTION
REPT.-4 N64-27612 19-07

HEAT OF ADSORPTION FOR SODIUM, RUBIDIUM, AND CESIUM ON TUNGSTEN SUBSTRATE - CHEMISORPTION
NASA-TN-D-2431 N64-27741 19-23

DETECTION TECHNIQUES FOR TENUOUS PLANETARY ATMOSPHERES - CHEMISORPTION DETECTORS FOR HYDROGEN AND WATER VAPOR
NASA-CR-59285 N64-33336 24-07

CHEMISTRY /GEN/
SA AEROTHERMOCHEMISTRY
SA BIOCHEMISTRY
SA ELECTROCHEMISTRY
SA GEOCHEMISTRY
SA INORGANIC CHEMISTRY
SA NUCLEAR CHEMISTRY
SA ORGANIC CHEMISTRY
SA PHOTOCHEMISTRY
SA PHYSICAL CHEMISTRY
SA PHYSIOCHEMISTRY
SA POLYMER CHEMISTRY
SA RADIOCHEMISTRY
SA STEREOCHEMISTRY
SA SURFACE CHEMISTRY
SA THERMOCHEMISTRY
REACTOR UTILIZATION AND ABSTRACTS OF CHEMISTRY, ENGINEERING, METALLURGY, AND PHYSICS RESEARCH
IS-700 N64-10257 01-01

BIOPHYSICS, CHEMISTRY & CYTOLOGY FOR DETERMINATION OF LIFE PHENOMENA
JPRS-21966 N64-10329 01-14

MATHEMATICAL PHYSICS, CHEMISTRY, GEOLOGY, BIOLOGY, AND TECHNOLOGY
JPRS-19569 N64-11073 02-01

CHEMISTRY OF EARTHS CRUST
JPRS-22225 N64-12140 03-07

NUCLEAR ENGINEERING - REACTOR PHYSICS, CHEMISTRY, METALLURGY, & ENGINEERING RESEARCH
BNL-799/S-64/ N64-13201 04-23

METALLURGICAL, PHYSICAL, CHEMICAL, & MISCELLANEOUS RESEARCH N64-19077 11-01

PIPETTING OF LIQUIDS IN ENCLOSED HOT CELL - CHEMICAL MEASURING APPARATUS
UCRL-9661 N64-19317 12-17

PHYSICS, ELECTRONICS, & MEASUREMENT STANDARDS, CHEMISTRY & PROPERTIES OF MATERIALS, APPLIED MATHEMATICS, RADIO PROPAGATION, AND OTHER RESEARCH
NBS-MISC.-PUBL.-255 N64-21512 15-23

MACRO- AND MICRO-DETERMINATIONS OF FUNCTIONAL GROUPS IN ORGANIC COMPOUNDS N64-21906 15-07

MORPHOLOGY AND CHEMISTRY OF MICROSPHERES FROM PROTEINOID
NASA-TM-X-51514 N64-22772 16-16

CHEMICAL STUDIES OF METEORITIC MATERIALS AT ALL HISTORICAL STAGES N64-25058 17-05

CHEMISTRY, BIOCHEMISTRY, PHYSICS, AND ENGINEERING IN COMMUNIST CHINA
JPRS-24862 N64-25786 17-07

BIBLIOGRAPHY ON HIGH TEMPERATURE CHEMISTRY AND PHYSICS OF MATERIALS IN CONDENSED STATE N64-26900 18-07

APPLICATION OF INFRARED ABSORPTION SPECTROSCOPY TO CHEMICAL INDUSTRY N64-27130 19-07

PHYSICS, CHEMISTRY, MATHEMATICS, ENGINEERING, METALLURGY, AND CERAMICS
AD-601472 N64-27497 19-01

BIBLIOGRAPHY OF BIOLOGICAL, CHEMICAL, GEOLOGICAL MATHEMATICAL, PHYSICS, AND ENGINEERING ABSTRACTS N64-28140 20-10

USE OF CYBERNETIC METHODS IN CHEMISTRY AND CHEMICAL INDUSTRY N64-28349 20-07

BIBLIOGRAPHY OF GAS AND CONDENSED PHASE REACTIONS OF HIGH TEMPERATURE CHEMISTRY AND PHYSICS

N64-28694 20-07

RESEARCH PROJECTS IN MATERIAL SCIENCE, SOLID STATE PHYSICS, CHEMISTRY, ELECTRICAL ENGINEERING, CIVIL ENGINEERING, CHEMICAL ENGINEERING, AND MECHANICAL ENGINEERING
AR-4 N64-28765 20-25

FLUORINE CHEMISTRY
PR-4 N64-29921 21-07

CHEMICAL PROPERTIES OF CHEMILUMINESCENT PROCESSES AND COMPOUNDS
AFOSR-64-1271 N64-30035 21-07

PHYSICS AND CHEMISTRY OF SOLIDS AND INTERFACES - TRACER METHODS
AECL-2003 N64-30376 22-07

BIBLIOGRAPHY ON SHOCK TUBE APPLICATIONS IN CHEMISTRY AND PHYSICS
NLR-1189 N64-30625 22-07

CHEMISTRY AND ATOMIC ENERGY - NUCLEAR REACTOR FUEL AND WASTE PROCESSING, TRANSURANIUM ELEMENTS, FISSION PRODUCT EXTRACTION, RADIATION EFFECTS, AND DECONTAMINATION
ORNL-3627 N64-31061 22-07

SUMMARY OF PAPERS PRESENTED AT CONFERENCE ON BIOLOGICAL AND MEDICAL RESEARCH RELATED TO CHEMISTRY
JPRS-26845 N64-32164 23-16

RESEARCH IN PHYSICS, CHEMISTRY, MATHEMATICS, METALLURGY, RADIO, AND SOUND
AD-602948 N64-32786 24-10

UNIVERSITY OF AUSTRALIA RESEARCH PROGRAMS IN PHYSICS, CHEMISTRY, CIVIL AND ELECTRICAL ENGINEERING, AND MATHEMATICS N64-32986 24-16

CONFERENCE ON BIOASSAY AND ANALYTICAL CHEMISTRY
TID-7696 N64-33139 24-07

CHEMISTRY OF OXIDIZERS AND OXIDATION MECHANISMS - REACTIONS OF PERCHLORYL FLUORIDE WITH ORGANIC COMPOUNDS
SAR-2 N64-33243 24-07

ANALYTICAL METHODS FOR OXYGEN, NITROGEN, AND CARBON IMPURITIES IN CESIUM METAL - NEUTRON ACTIVATION, GAS CHROMATOGRAPHY, PHOTOMETRY, AND INFRARED ANALYZER TECHNIQUES
ML-TDR-64-199 N64-33912 24-07

GENERAL SCIENCE - METABOLISM, MICROBIOLOGY, AND CHEMISTRY
JPRS-26991 N64-33957 24-16

QUANTUM CHEMISTRY OF ENERGETIC NITROGEN-OXYGEN-FLUORINE COMPOUNDS
AD-450087 N64-33973 24-07

SPECTROPHOTOMETRIC DATA FOR DETERMINING SUCCESSIVE FORMATION CONSTANTS OF MIXED COMPLEXES N64-34007 24-07

CHEMOTHERAPY
DEVELOPMENT OF BIOCHEMICAL SUBSTANCES BY MICROBIOLOGICAL TRANSFORMATION FOR CHEMOTHERAPY
JPRS-20041 N64-11132 02-16

CANCER CHEMOTHERAPY - BIBLIOGRAPHY
JPRS-23440 N64-15829 07-16

PROTECTIVE AND THERAPEUTIC ANTIRADIATION & ANTI-OXIDATION PROPERTIES OF VARIOUS POLYPHENOL STRUCTURES - CHEMOTHERAPY
JPRS-23567 N64-16543 08-16

EFFECT OF IONIZING RADIATION ON MAMMALIAN TISSUES, CHEMOTHERAPY FOR RADIATION SICKNESS IN ANIMALS, & INFLUENCE OF RADIATION EXPOSURE ON LIFESPAN
AD-430559 N64-16645 08-16

INFLUENCE OF CHEMOTHERAPEUTIC AGENTS ON PROTECTIVE FUNCTIONS OF ORGANISMS N64-17170 09-16

MEDICINE IN UKRAINIAN S.S.R., ACCELERATION AND AEROSPACE MEDICINE, AND CHEMOTHERAPY
JPRS-26116 N64-28432 20-16

CHEMOTHERAPY FOR RADIATION SICKNESS
JPRS-27220 N64-33578 24-16

RADIATION PROTECTION - CHEMOTHERAPY & RADIOBIOLOGY
AEC-TR-6258 N64-33582 24-16

CHILD
DEVELOPMENT OF SPATIAL DISCRIMINATION IN PRESCHOOL AGE CHILDERN N64-25145 17-16

PERCEPTION OF SIZE OF OBJECT IN SPATIAL ORIENTATION OF PRESCHOOL CHILDREN N64-25146 17-16

DISCRIMINATION OF SPATIAL RELATIONS IN PRESCHOOL CHILDREN AND ITS REFLECTION IN THEIR LANGUAGE N64-25147 17-16

DEVELOPMENT OF SPATIAL PERCEPTION AND SPATIAL CONCEPTS IN PRESCHOOL CHILDREN N64-25148 17-16

PERCEPTION OF PROPORTIONS BY FIRST GRADE CHILDREN DURING NATURE DRAWING N64-25149 17-16

SPATIAL AND QUANTITATIVE CONCEPTS IN FOURTH THROUGH SIXTH GRADE STUDENTS N64-25150 17-16

DEVELOPMENT OF SPATIAL CONCEPTS IN ELEMENTARY SCHOOL CHILDREN N64-25151 17-16

PERCEPTION OF SPATIAL RELATIONS BY SIXTH GRADE CHILDREN DURING FIELD SURVEYING EXERCISES N64-25152 17-16

PHYSIOLOGICAL SIGNIFICANCE OF HUMAN VOICE AS OBSERVED IN CHILDREN N64-31461 23-14

CHIMPANZEE
CF MONKEY
OBJECTIVES, METHODS, RESULTS, AND CONCLUSIONS OF BALLISTIC AND ORBITAL MERCURY FLIGHTS /MR-2 AND MA-5 FLIGHTS/ WITH CHIMPANZEES
NASA-SP-39 N64-12915 04-16

PSYCHOMOTOR AROUSAL, HEMORRHAGE, AND UPRIGHT POSTURE EFFECTS ON CIRCULATION OF CHIMPANZEE
ARL-TDR-63-28 N64-13854 05-16

RESPONSE OF CHIMPANZEE TO SEVERE ENVIRONMENTAL STRESS
ARL-TDR-63-26 N64-14044 05-16

CORTICAL-SUBCORTICAL RELATIONSHIPS OF CHIMPANZEE DURING DIFFERENT PHASES OF SLEEP - EEG COMPUTER ANALYSIS
NASA-CR-55689 N64-16324 08-16

HISTOLOGICAL STUDY OF CHIMPANZEE MIDDLE AND INNER EAR
ARL-TDR-64-1 N64-18650 11-16

DESIGN AND FABRICATION OF MASK AND HELMET FOR CHIMPANZEE RESPIRATORY SYSTEM RESEARCH
ARL-TDR-64-3 N64-21311 14-16

ANIMAL STUDY - COMPLEX BEHAVIOR PATTERNS OF CHIMPANZEE
NASA-RP-188 N64-22094 15-14

CHIMPANZEE MEDICAL RECORDS
ARL-TDR-64-5 N64-22280 15-16

CHIMPANZEE TRAINING TECHNIQUES FOR CONTINUOUS AVOIDANCE TASK
ARL-TDR-64-7 N64-22697 15-16

PHYSIOLOGICAL BASE-LINE STUDIES FOR CHIMPANZEES UNDER STABLE FLIGHT CONDITIONS
ARL-TDR-64-4 N64-26197 18-16

STATIC REFRACTORY ERROR OF CHIMPANZEE EYE UNDER SERNYL ANESTHESIA
ARL-TDR-64-9 N64-32026 23-16

CHINA
WINDS AND SURFACE CURRENTS IN COASTAL CHINA WATERS
JPRS-20031 N64-10460 01-21

SCIENCE AND TECHNOLOGY IN COMMUNIST CHINA
JPRS-24593 N64-20924 14-01

SHIPBUILDING IN COMMUNIST CHINA
JPRS-24122 N64-21612 15-17

SCIENCE AND TECHNOLOGY IN CHINA
JPRS-24758 N64-22876 16-01

CHEMISTRY, BIOCHEMISTRY, PHYSICS, AND ENGINEERING IN COMMUNIST CHINA
JPRS-24862 N64-25786 17-07

VARIOUS SCIENCE AND TECHNOLOGICAL ACTIVITIES IN COMMUNIST CHINA
JPRS-25656 N64-28041 20-07

SCIENCE AND TECHNOLOGY IN COMMUNIST CHINA
JPRS-25267 N64-28728 20-01

AGRICULTURAL METEOROLOGY, METEORITES, AND USE OF SPECTROPHOTOMETRIC DATA IN COMMUNIST CHINA
JPRS-27009 N64-34006 24-07

CHEMICAL COMPOSITION OF METEORITES FOUND IN CHINA
N64-34008 24-07

CHLORATE
FUSIBILITY OF ANHYDROUS PERCHLORIC ACID SALTS - LITHIUM-CALCIUM & SODIUM-CALCIUM
FTD-TT-63-565/1&2&4 N64-11165 02-19

EXTRACTION-PHOTOMETRIC DETERMINATION OF PERCHLORATES IN PRESENCE OF CHLORATES
RSIC-90 N64-11752 03-07

PREPARATION AND PROPERTIES OF COMPLEX PERCHLORATES
AD-430803 N64-16077 07-07

CHEMICAL REACTION OF PERCHLOROCARBORANE AND PERCHLORONEOCARBORANE
TR-20 N64-23243 16-07

THERMAL DECOMPOSITION OF NITROSYL PERCHLORATE
FTD-TT-63-116/1&2&4 N64-23422 16-26

EVALUATION OF DOPED PERCHLORATES IN EXPERIMENTAL PHOTOFLASH COMPOSITIONS
TM-1091 N64-25692 17-19

CHLORELLA
CF ALGAE
THEORY OF CHLORELLA CULTIVATION BASED ON ABSORPTION OF RADIANT ENERGY
JPRS-18432 N64-11044 02-16

EFFECT OF SPACE FLIGHT CONDITIONS IN SATELLITE ON PRESERVATION OF VIABILITY OF CHORELLA CULTURE
N64-11678 03-16

CHLORELLA PYRENOIDOSA PROTEIN ANALYSIS FOR ESSENTIAL AMINO ACIDS - SPACE BIOLOGY
N64-11697 03-16

CHANGES IN CONCENTRATION OF CARBON-14 LABELED COMPOUNDS IN PHOTOSYNTHESIZING CHLORELLA DUE TO ADDITION OF IODOACETIC ACID N64-19468 12-07

EFFECT OF INHIBITORS ON CARBON-REDUCTION CYCLE IN CHLORELLA N64-19470 12-16

QUINONE COMPOSITION OF CHLORELLA PYRENOIDOSA
N64-19471 12-16

CHEMICAL CHANGES OF HUMAN WASTE UNDERGOING THERMAL DECOMPOSITION AND GROWTH OF CHLORELLA ON ASH FROM VOLATILIZATION PROCESS
TN-62-13 N64-19556 12-16

COMBUSTION OF HUMAN WASTE AND PRODUCT RECOVERY BY CHLORELLA
TN-62-16 N64-21554 15-16

TOXIC GASEOUS SUBSTANCES DISCHARGED BY CHLORELLA
N64-23754 16-16

INCREASE IN PHOTOSYNTHETIC PRODUCTIVITY OF CHLORELLA CULTURE N64-23775 16-16

CAPILLARY-MANOMETRIC AND POLAROGRAPHIC METHODS FOR MEASURING RATE OF PHOTOSYNTHESIS OF CHLORELLA
N64-23776 16-16

NUTRIENT MEDIA FOR CULTIVATION OF CHLORELLA PYRENOIDOSA N64-23777 16-16

MATHEMATICAL ANALYSIS OF CULTIVATION OF CHLORELLA IN BIOLOGICAL CULTIVATORS WITH IRREGULAR SHAPES
N64-23778 16-16

EFFECT OF LIGHT ON GROWTH AND PHOTOSYNTHESIS OF CHLORELLA
FTD-TT-64-246/1&2&4 N64-26113 18-16

ELECTROCHEMICAL DEGRADATION OF HUMAN WASTES - BIOASSAY WITH CHLORELLA
AD-605724 N64-30569 22-16

FACTORS AFFECTING CHLORELLA GROWTH IN ELECTROCHEMICALLY DEGRADED HUMAN WASTE
AD-447801 N64-31315 22-16

ENHANCEMENT OF PHOTOSYNTHESIS OF CHLORELLA PYRENOIDOSA AS FUNCTION OF FAR-RED AND SHORT WAVE ILLUMINATIONS N64-33456 24-16

EFFECT OF CULTURE MEDIUM PH ON DEVELOPMENT OF CHLORELLA AND METABOLISM OF CARBON 14 ABSORBED IN CARBON DIOXIDE BY CHLORELLA N64-33495 24-16

CHLORIDE
SA SODIUM CHLORIDE
CF HALIDE
PLASMA CHANGES DUE TO CHANGES IN CONCENTRATION OF CHLORIDE AND CARBON DIOXIDE BY THERMAL DEHYDRATION
N64-10783 02-16

SOVIET CONFERENCES ON METALLURGY - PROCESSES, DREDGES, HEAVY METAL CHLORIDE SOLUTIONS, WELDING, RARE EARTHS, POWDER, AND RELAXATION PHENOMENA
JPRS-21636 N64-11284 02-11

X-RAY FLUORESCENCE DETERMINATION OF CHLORIDE IN BERYLLIUM METAL
Y-1447 N64-11284 02-07

CRYSTAL STRUCTURE OF BARIUM CHLORIDE, BROMIDE, AND IODIDE N64-11422 02-25

MICRO X-RAY DIFFRACTION OF WHISKERS GROWN FROM FERROUS CHLORIDE SOLUTION
ASD-TDR-63-643 N64-11459 03-25

DISTRIBUTION OF MOLECULAR WEIGHTS IN VINYL CHLORIDE POLYMERIZED BY IRRADIATION
NIJS-R-417 N64-12135 03-07

LITHIUM-SILVER CHLORIDE CELL USING NONAQUEOUS ELECTROLYTE
RTD-TDR-63-4083 N64-13643 05-04

HARDENING PROPERTIES OF POLYVINYL CHLORIDE-DIBUTYL PHTHALATE PLASTISOL BY ELECTRICAL RESISTANCE METHOD
NOLTR-63-250 N64-13828 05-19

POTASSIUM CHLORIDE CRYSTAL PURIFICATION AND GROWTH IN LIQUID HYDROGEN SULFIDE
AD-407600 N64-14506 06-25

THERMOPLASTIC & THERMOSETTING RESINS FROM PHOSPHONITRILIC CHLORIDE TRIMER
TR-3 N64-14626 06-19

COMPOUNDS IN BINARY PHASE DIAGRAMS OF MONOVALENT CHLORIDE WITH MULTIVALENT CHLORIDES
ANL-6803 N64-15224 07-19

EXTRACTION OF HYDROGEN PERCHLORATE AND NITRIC ACID INTO TRIOCTYLPHOSPHINE OXIDE FROM CARBON TETRA-

CHLORIDE AND NITROBENZENE SOLUTIONS
UCRL-10971 N64-15243 07-07

VAPOR PRESSURE OF TUNGSTEN CHLORIDE AND HAFNIUM IODIDE BY METAL DIAPHRAGM TECHNIQUE
BM-RI-6367 N64-15606 07-19

EXPLOSION TEMPERATURES AND LIMITS OF CHLORINE-HYDROGEN MIXTURES IN HYDROGEN CHLORIDE
FTD-TT-62-1415/1&2 N64-16052 07-26

IONIC DIFFUSION AND ACTIVATION OF AQUEOUS RARE-EARTH CHLORIDE SOLUTIONS
IS-770 N64-17739 09-23

EFFECT OF FLUORIDE, SULFATE, & CHLORIDE IONS ON ADSORPTION OF OLEATE ON FLUORITE AND BARITE
BM-RI-6412 N64-17983 10-25

AQUEOUS BEHAVIOR OF ALUMINUM OXYCHLORIDE
SSD-TDR-64-22 N64-18254 10-07

SPECTROMETER FOR ALUMINUM FLUORIDE AND ALUMINUM CHLORIDE STUDIES N64-18802 11-07

ORGANIC CHEMISTRY - CHEMICAL REACTIONS OF POLYMERIC PHOSPHONITRYLCHLORIDES
FTD-TT-63-1101/1&2&4 N64-19758 12-07

EFFECT OF PLASTICIZATION ON VISCOELASTIC PROPERTIES OF POLYVINYL CHLORIDE
ONR-TR-RLT-76 N64-20467 13-19

ELECTRON MICROSCOPE STUDY OF LAMELLAR COMPOUNDS OF GRAPHITE WITH BROMINE, IODINE MONOCHLORIDE AND FERRIC CHLORIDE
EUR-542.E N64-21006 14-19

PREPARATION OF LITHIUM HYDROXIDE ON SOLID CATHODE BY ELECTROLYSIS OF LITHIUM CHLORIDE SOLUTION
JPRS-24912 N64-21284 14-07

HOT DRY PRESSED SILVER CHLORIDE CATHODES FOR AMMONIA BATTERY AND ORGANIC CATHODES FOR AQUEOUS ELECTROLYTIC BATTERY
NDLC-597, SUPPL. N64-22088 15-06

BEHAVIOR OF SILVER/SILVER CHLORIDE, CHLORIDE ELECTRODE IN AMMONIA N64-22883 16-06

REACTION OF ALLYL ALDEHYDE WITH PHOSPHORUS TRICHLORIDE N64-23005 16-07

CORROSION BY HYDROGEN CHLORIDE GAS AND SOLUTIONS OF HYDROCHLORIC ACID N64-24267 17-07

HARD POLYVINYL CHLORIDE PIPE FOR CONDUCTION OF HYDROCHLORIC ACID N64-24270 17-07

GRAPHITE AS CORROSION RESISTANT MATERIAL FOR HANDLING HYDROGEN CHLORIDE GAS OR SOLUTIONS N64-24272 17-18

HEATS OF MIXING POTASSIUM CHLORIDE-POTASSIUM BROMIDE SOLID SOLUTIONS
ARCD-2477-1 N64-24938 17-07

LITHIUM-SILVER CHLORIDE SECONDARY BATTERY STUDY
GPR-1 N64-25855 18-07

RHEOLOGICAL BEHAVIOR OF FILLED ELASTOMER - POLYURETHANE RUBBER FILLED WITH GRANULAR POTASSIUM CHLORIDE
TR-23 N64-28582 20-26

RADIATION RESISTANCE OF POLYVINYL CHLORIDE AND ADHESIVES FOR CEMENTING PROTECTIVE COATINGS TO CONSTRUCTION UNIT SURFACES
JPRS-26001 N64-29119 21-07

EXTERNAL GAMMA RADIATION EFFECTS ON RADIATION RESISTANT AND STABILIZATION-INHIBITING ADDITIVES OF POLYVINYL CHLORIDE N64-29120 21-07

FORMATION HEAT OF BORON TRICHLORIDE
AD-604433 N64-29869 21-07

SILVER CHLORIDE & IODIDE AS SEQUESTERING AGENTS FOR RADIOACTIVE IODINE N64-30036 21-16

HEAT OF FORMATION OF LIQUID PHOSPHORUS OXYCHLORIDE
AD-442826 N64-30038 21-07

ONE-CENTER SELF-CONSISTENT FIELD MOLECULAR ORBITAL WAVE FUNCTIONS FOR GROUND STATES OF WATER, HYDROGEN SULFIDE, AND HYDROGEN CHLORIDE MOLECULES N64-30317 22-23

INORGANICALLY BOUND IODINE-131 SEPARATED FROM URINARY CONSTITUENTS BY ION EXCHANGE ON SILVER CHLORIDE COLUMN
ANL-6887 N64-30602 22-16

VISIBLE ABSORPTION SPECTRA OF LITHIUM, SODIUM, AND POTASSIUM IN MOLTEN LITHIUM CHLORIDE-POTASSIUM CHLORIDE
NASA-RP-322 N64-31005 22-07

VIBRATIONAL RELAXATION IN HYDROGEN CHLORIDE
AFCRL-64-559 N64-31070 22-11

FABRICATION OF LONG LIFE, HIGH ENERGY DENSITY SECONDARY BATTERY BASED ON LITHIUM-SILVER CHLORIDE SYSTEM - AEROSPACE APPLICATIONS
QTPR-2 N64-33979 24-06

CHLORINE
CF HALOGEN
ATMOSPHERIC GAMMA RADIATION & CHLORINE FOR WATER PURIFICATION AND SANITATION
JPRS-21975 N64-10386 01-16

INTERMOLECULAR FORCES & SPACE GROUP OF SOLID CHLORINE N64-10824 02-25

COLOR REMOVAL FROM SURFACE WATER BY CARBON FILTER AS CHLORINATION SUBSTITUTE
AAL-TDR-62-37 N64-13644 05-07

ELECTRONIC DIGITAL COMPUTER CALCULATION OF CHLORINE CONTINUOUS ABSORPTION COEFFICIENT
SSD-TDR-63-251 N64-14306 06-23

SHELL MODEL STUDY OF CHLORINE AND NUCLEI WITH 36 NUCLEONS - BEHAVIOR AND EIGENVECTOR PROPERTIES IN LOW ENERGY LEVEL
KFKI-1491/F N64-15989 07-23

FLAME PROPAGATION IN MIXTURE OF HYDROGEN AND CHLORINE
FTD-TT-62-1687/1&2 N64-21647 15-26

KINETICS AND THERMODYNAMICS OF CHLORINE-HYDROGEN MIXTURE COMBUSTION
FTD-TT-62-1688/1&2 N64-23476 16-26

KINETICS OF THERMAL REACTION OF CHLORINE-HYDROGEN MIXTURE - COMBUSTION N64-23477 16-26

MASS SPECTRAL STUDY OF KINETICS BEHIND SHOCK WAVES - THERMAL DISSOCIATION OF CHLORINE
DOW-AR-25-63 N64-30201 21-07

TRANSPORT OF PLUTONIUM TETRACHLORIDE VAPOR IN CHLORINE GAS DURING REACTION OF URANIUM AND PLUTONIUM OXIDES WITH CARBON TETRACHLORIDE
ORNL-3693 N64-32415 23-07

EFFECT OF CHLORINE SUBSTITUTION ON ADHESIVE BOND STRENGTH OF EPOXY RESIN
PA-TM-1396 N64-33067 24-19

CHLORINE COMPOUND
IONIC STRUCTURAL ANALYSIS OF CHLORO-ARSENIC-FLUORIDE BY X-RAY INSPECTION AND MOLECULAR WEIGHT DETERMINATIONS
AD-424714 N64-13099 04-26

PREPARATION AND IONIC STRUCTURE DETERMINATION OF CHLORINETRIFLUORIDE COMPLEXES
AD-432343 N64-17650 09-26

CHLORINATION OF CHROMIC OXIDE IN PRESENCE OF CARBON WITH CARBON TETRACHLORIDE & PHOSGENE AS CHLORINATING AGENTS - CARBON 14 AS TRACER
BM-RI-6402 N64-17803 09-07

CHLORINE TRIFLUORIDE COMPLEXES AS HIGH ENERGY OXIDIZERS
QTSR-1 N64-22542 15-07

ABSORPTION SPECTRUM AND DISSOCIATION ENERGY OF GASEOUS CHLORINE FLUORIDE IN GROUND STATE
RSIC-183 N64-25220 17-07

COMPATIBILITY AND CORROSION RATES OF WELDED ALLOYS WITH HIGH ENERGY OXIDIZERS - CHLORINE TRIFLUORIDE AND PERCHLORYL FLUORIDE
ML-TDR-64-22 N64-26689 18-07

HYDROLYSIS OF ORGANOCHLOROSILANES IN CONTINUOUS COUNTERFLOW SPRAY COLUMN
FTD-TT-64-132/1&2&4 N64-27842 19-07

MICROWAVE SPECTRUM, BARRIER TO INTERNAL ROTATION, AND QUADRUPOLE COUPLING CONSTANTS OF CIS-1-CHLOROPROPYLENE
NASA-CR-58578 N64-29404 21-07

CHLOROBENZENE
DIPOLE MOMENT, QUADRUPOLAR COUPLING CONSTANTS, AND MICROWAVE SPECTRUM OF CHLOROBENZENE
NASA-CR-55415 N64-14865 06-07

CHLOROPHYLL
CF PHOTOSYNTHESIS
CF PROTEIN
FREE RADICALS IN RAT LIVER LIPIDS & ELECTRON PARAMAGNETIC RESONANCE SIGNALS FROM LIGHT IN CRYSTALLINE CHLOROPHYLL & ITS INFRARED SPECTRA
JPRS-18213 N64-10572 01-07

SPECTRAL ABSORPTION AND PHOTOCHEMICAL STUDY OF CHLOROPHYLL DERIVATIVES DISSOLVED IN WATER MEDIUM
FTD-TT-63-1008/1&2&4 N64-16430 08-07

RELATIONSHIP BETWEEN PHYSIOLOGICAL STATE AND MEDIUM DURATION OF FLUORESCENCE OF BACTERIOCHLOROPHYLL IN CELLS N64-23434 16-16

NITROGEN-FIXATION, CHLOROPHYLL, AND TEMPERATURE CONTROL STUDIES IN ALGAE AND MICROORGANISMS
FTD-TT-63-1016/1&2 N64-23655 16-16

OPTIMIZATION OF ILLUMINATION AND TEMPERATURE EFFECT ON CHLOROPHYLL CONCENTRATION OF DUNALIELLA SALINA CELLS N64-23657 16-16

NUCLEIC ACIDS AND CHLOROPHYLL BIOSYNTHESIS AND ELECTROMYOGRAMS UNDER ACCELERATION STRESSES
FTD-TT-63-1052/1&2 N64-23659 16-16

ROLE OF NUCLEIC ACIDS AND ALBUMIN IN BIOSYNTHESIS OF CHLOROPHYLL N64-23660 16-16

ELECTRON PARAMAGNETIC RESONANCE OF CHOROPHYLL AND OTHER PIGMENTS
JPRS-26915 N64-32749 24-25

CHLOROPLAST
FLUORESCENCE OF GREEN PLANT CHLOROPLASTS UNDER VISIBLE LIGHT EXCITATION AT LOW TEMPERATURES
N64-13326 04-23

EFFECT OF ORGANIC LIQUID /DIMETHYLSULFOXIDE/ AND CAFFEINE ON PHOTOLYTIC ACTIVITY OF CHLOROPLASTS IN SOLUTION
NASA-CR-56130 N64-20705 13-16

ELECTROPHORESIS PREPARATION AND TEST OF CHLOROPLAST FRACTIONS FOR HILL REACTION ACTIVITY
NASA-CR-58340 N64-28935 20-16

QUINONES IN PHOTOSYNTHETIC REACTIONS OF ISOLATED CHLOROPLASTS
AFCRL-64-760 N64-33104 24-16

WATER PHOTOLYSIS AND OXYGEN PRODUCTION FROM ILLUMINATION OF CHLOROPLAST IN PRESENCE OF SUITABLE ANODE ACCEPTOR
NASA-CR-59220 N64-33124 24-16

CHLORPROMAZINE
CONDITIONED RESPIRATORY REFLEX AND RESPONSE TO CARBON DIOXIDE UNDER INFLUENCE OF CHLORPROMAZINE
FTD-TT-64-69/1&2&4 N64-33102 24-16

CHOKE
EFFECTS OF GAS STRATIFICATION ON CHOKED NOZZLE FLOW
AIAA PAPER-64-266 N64-23612 16-11

CHOKING TWO-PHASE FLOW AND IDEALIZED SOLUTIONS FOR HYDROGEN, NITROGEN, OXYGEN, AND FREON
NBS-TN-179 N64-32071 23-11

CHOLESTEROL
INFRARED SPECTROPHOTOMETRY FOR MICRODETERMINATION OF SERUM TRIGLYCERIDES AND CHOLESTERYL ESTERS
N64-22862 18-14

THIN LAYER CHROMATOGRAPHIC SEPARATION OF VITAMIN D AND CHOLESTEROL N64-32016 23-14

CHONDRITE
CF METEORITE
STRUCTURE OF METALLIC IRON PARTICLES, TROILITE, AND SILICATE CONTENT IN CHONDRITES
AID-T-63-122 N64-12023 03-05

ORIGIN OF CHONDRULES AND CHONDRITE TYPES AND RELATION WITH IRON METEORITES AND ACHONDRITES
N64-13328 04-05

ALTERATIONS IN PETROLOGICAL COMPOSITION AND ARGON EMPLACEMENT BY ARTIFICIAL SHOCK OF BJURBOLE CHONDRITE IN ARGON ATMOSPHERE
NASA-CR-55365 N64-14269 06-05

CHEMICAL COMPOSITION OF CHONDRITES AND ORIGIN OF METEORITES N64-19497 12-05

INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS OF METEORITIC AND TERRESTRIAL SPECIMENS AND SEPARATE CHONDRULES TO CHART ABUNDANCES OF SEVEN ELEMENTS
NASA-CR-53779 N64-19601 12-05

IRON, MAGNESIUM, CALCIUM, AND NICKEL DISTRIBUTION IN MURRAY CARBONACEOUS CHONDRITE
NASA-TM-X-54050 N64-24041 16-18

IRON, MAGNESIUM & CALCIUM DISTRIBUTION IN OLIVINES & RHOMBIC PYROXENES OF CHONDRITES
NASA-TM-X-54037 N64-26593 18-05

IRON, MAGNESIUM, AND CALCIUM DISTRIBUTION IN OLIVINES AND RHOMBIC PYROXENES OF CHONDRITES
NASA-RP-341 N64-31218 22-12

CHOPPER
DIRECT CURRENT AMPLIFIER WITH SOLID STATE CHOPPER GATE N64-11735 03-15

CIRCUIT TO CORRECT OUTPUT WAVEFORM OF TRANSISTOR CHOPPER TO SQUARE WAVE SIGNAL
BI-026 N64-26514 18-09

CHORUS PHENOMENON
S WHISTLER

CHROMATOGRAPHY
SA GAS CHROMATOGRAPHY
DOCUMENTATION AND QUANTITATIVE ANALYSIS OF THIN-LAYER CHROMATOGRAMS
RSIC-53 N64-12206 03-20

NONPROTEIN AMINO ACIDS & RELATED COMPOUNDS OF RAT LIVER MITOCHONDRIA - CHROMATOGRAPHIC ANALYSIS
NADC-MA-6318 N64-14351 06-16

SEPARATION OF CATIONS BY REVERSED-PHASE PARTITION CHROMATOGRAPHY USING NEUTRAL ORGANIC PHOSPHORUS COMPOUNDS
IS-737 N64-14886 06-07

ROLE OF CHROMATIC ABERRATIONS IN BEAM TRANSPORT CHANNEL DESIGN AND PROPERTIES
CERN-64-2 N64-15425 07-23

RADIOASSAY OF THIN LAYER CHROMATOGRAPHIC PRINTS FOR ZONAL SCRAPER
ORINS-44 N64-18501 10-07

SEPARATION OF RARE EARTH ELEMENTS BY PAPER PHASE CHROMATOGRAPHY USING TRINORMAL OCTA-AMINE AMMONIUM NITRATE SYSTEMS N64-20659 13-07

CATALYSIS CHROMATOGRAPHY OF PROPYLENE HYDROGENATION ON NICKEL-SILICON DIOXIDE
N64-20927 14-07

POLYVINYL ALCOHOL, SELENIUM AND TELLURIUM PAPER ELECTROCHROMATOGRAPHY, AND XYLENE SEPARATION
JPRS-25070 N64-22734 16-01

EXTRATERRESTRIAL LIFE DETECTOR, AND AUTOMATIC PAPER CHROMATOGRAPHY DEVICE FOR ANALYSIS OF SOLUBLE CONSTITUENTS OF PLANETARY SOIL
NASA-CR-56523 N64-22783 16-16

COMPUTER ANALYSIS OF GAS-LIQUID CHROMATOGRAMS
N64-22861 16-16

PRIMER ACTIVITY OF CHROMATOGRAPHY FRACTIONATED DEOXYRIBONUCLEIC ACID FROM CALF AND RAT THYMUS
USNRDL-TR-655 N64-24185 16-16

COLOR DISCRIMINATION WITHOUT CHROMATIC VISION USING PRISM GLASS
REPT.-2 N64-28581 20-16

CHROMATOGRAPHIC ANALYSIS OF HELIUM OVER LIQUID SODIUM
NAA-SR-8448 N64-30635 22-07

BIBLIOGRAPHY OF REVERSED-PHASE PARTITION CHROMATOGRAPHY
IS-950 N64-31015 22-07

PAPER ELECTROCHROMATOGRAPHIC SEPARATION OF RHENIUM AND MOLYBDENUM IN HYDROCHLORIC ACID
N64-31576 23-07

SEPARATION OF VARIOUS PHOSPHATES BY CHROMATOGRAPHY AND ION EXCHANGE RESIN EXEMPLIFIED BY MONITORING PHOSPHORUS 32
N64-32010 23-07

THIN LAYER CHROMATOGRAPHIC SEPARATION OF VITAMIN D AND CHOLESTEROL
N64-32016 23-16

CHROMIC ACID
HOT CHROMIC ACID AS EPOXY STRIPPER ON AIRCRAFT METALS
A730 N64-22576 15-17

CHROMIC OXIDE
CHLORINATION OF CHROMIC OXIDE IN PRESENCE OF CARBON WITH CARBON TETRACHLORIDE & PHOSGENE AS CHLORINATING AGENTS - CARBON 14 AS TRACER
BM-RI-6402 N64-17803 09-07

CHROMIUM
EXAMINATION OF CODIFFUSION OF TWO CHEMICALLY ACTIVE GASES INTO HARD METAL
NITROGEN-CARBON-CHROMIUM SYSTEM
N64-10674 02-18

CONFIRMATION OF BRITTLE FRACTURE THEORY BY OBSERVATION OF DISLOCATIONS IN CAST AND DEFORMED CHROMIUM SPECIMENS
N64-10793 02-18

CRYSTAL STRUCTURE DEFECTS IN IRON AND NICKEL ALLOYS AND CHROMIUM
JPRS-17529 N64-10997 02-25

CHROMIUM CRYSTAL STRUCTURE DEFECT
N64-10999 02-25

CHROMIUM AS A METALLIC BONDING & DIFFUSION BARRIER BETWEEN URANIUM & ALUMINUM
EUR-413.F N64-11263 02-18

EVALUATION OF SCAVENGER ELEMENTS FOR REMOVAL OR STABILIZATION OF INTERSTITIAL IMPURITIES IN CHROMIUM
ARL/MET-50 N64-11386 02-18

EMBRITTLEMENT RELIEF TREATMENT FOR CRACK-FREE CHROMIUM-PLATED STEEL
FTDM-3103 N64-11767 03-18

ANALYSIS OF CREEP DATA OF CHROMIUM AND CHROMIUM ALLOYS
ARL/MET-51 N64-11823 03-18

TEMPERATURE AND PRESSURE EFFECT ON CHROMIUM IONS IN RUBY AND ALEXANDRITE AND NEODYMIUM IONS IN HYDRATE OF PRASEODYMIUM NEODYMIUM NITRATE
E-T-G-63-9 N64-12200 03-25

LINE EMISSION AND ABSORPTION OF CHROMIUM PHOSPHORES - ZEEMAN EFFECT
E-T-G-63-19 N64-12279 03-23

IMPROVING CORROSION RESISTANCE OF CHROMIUM PLATING ON HIGH STRENGTH STEEL
FTDM-2960 N64-12602 04-18

TEMPERATURE DEPENDENCE OF SPECTRAL LINE ABSORPTION OF CHROMIUM IONS IN RUBIES
SSD-TDR-63-417 N64-15121 07-23

DIFFUSION OF CHROMIUM IN NICKEL
AEET/CD/17 N64-15917 07-25

MEASUREMENT OF SATURATED VAPOR PRESSURE OF CHROMIUM TO DETERMINE THERMODYNAMIC PROPERTIES OF CHROMIUM AND COBALT
N64-17032 09-13

THEORY OF DILUTE SOLID SOLUTION - X-RAY SPECTROGRAPHIC STUDY OF CHROMIUM
N64-17053 09-25

ROLE OF NITROGEN IN HIGH TEMPERATURE OXIDATION OF CHROMIUM IN AIR
N64-17069 09-07

REACTION DIFFUSION IN CHROMIUM-NITROGEN SYSTEM
N64-17070 09-07

STRUCTURE AND PROPERTIES OF CARBIDIZED CHROMIUM PLATING IN ATMOSPHERE CONTAINING NITROGEN
N64-17071 09-18

THERMOMECHANICAL PROCEDURE OF PRESSURE WORKING HIGH MELTING HEAT RESISTANT MOLYBDENUM & CHROMIUM
N64-17081 09-17

ORGANOMETALLIC COMPOUNDS FOR PREPARATION OF HIGH PURITY CHROMIUM AND EUROPIUM
AFCRL-63-537 N64-17125 09-07

VACATING EFFECT OF METALLIC CHROMIUM DISPERSED BY ELECTRON BOMBARDMENT IN HIGH VACUUM
N64-17180 09-23

RUBY S-SERIES ABSORPTION SPECTRAL LINE SERIES - RELATED TO CHROMIUM-ION ENERGY-LEVEL SPLITTING
N64-17344 09-25

FRICTION MEASUREMENTS OF SOLID SURFACES COVERED WITH SOLID FILMS OF LEAD, NICKEL, AND CHROMIUM
RTD-TDR-63-4272, PT. V N64-17513 09-18

FLUORESCENCE IN CADMIUM TELLURIDE AND PARAMAGNETIC RESONANCE OF CHROMIUM IN CADMIUM TELLURIDE
AD-404859 N64-18202 10-25

PARAMAGNETIC RESONANCE OF CHROMIUM IN CADMIUM TELLURIDE
N64-18204 10-25

SPIN-LATTICE RELAXATION TIME CALCULATION FOR RUBY WITH LOW CHROMIUM CONCENTRATION AND AT LOW TEMPERATURE
N64-19305 12-25

DIFFUSED CHROMIUM COATINGS FOR RELAY COMPONENTS - METALLURGY AND SURFACE EFFECTS
N64-19533 12-17

DIFFUSION COEFFICIENTS OF BODY CENTERED CUBIC METALS USING RADIOACTIVE ISOTOPES OF IRON AND CHROMIUM
AD-432969 N64-21307 14-18

STRAIN-AGING AND BRITTLE-DUCTILE TRANSITION CHARACTERISTICS OF CHROMIUM
IS-745 N64-23621 16-18

ELECTRIC EXCITATION OF FLUORESCENCE IN MAGNESIUM OXIDE CRYSTALS DOPED WITH CHROMIUM IONS
ML-1036 N64-27239 19-23

EFFECT OF HYDROSTATIC PRESSURE ON ELECTRON PARAMAGNETIC RESONANCE SPECTRUM OF CHROMIUM AND VANADIUM IONS IN SAPPHIRE
REPT.-06029-1-T N64-27858 19-25

GRAIN BOUNDARY AND LATTICE DIFFUSION OF CHROMIUM

IN ZIRCONIUM
AEET/CD/22 N64-28658 20-07

CHEMICAL AND PHYSICAL PROPERTIES OF CHROMIUM-GADOLINIUM SYSTEM
BM-RI-6503 N64-28695 20-18

CHROMIUM DOPED RUTILE TRAVELING WAVE MASER
NASA-TN-D-2490 N64-29453 21-25

DIFFUSION & SOLUBILITY OF NITROGEN IN CHROMIUM BY INTERNAL FRICTION MEASUREMENTS
ARL-64-88 N64-29806 21-18

THICKNESS AND COMPOSITION OF VACUUM-DEPOSITED NICKEL-CHROMIUM FILMS BY OPTICAL INTERFEROMETRY AND CHEMICAL MICROANALYSIS
USAELRDL-TR-2419 N64-29990 21-18

MECHANICAL PROPERTIES OF CHROMIUM, MOLYBDENUM, AND TUNGSTEN WITH RHENIUM ADDITION IN SOLID SOLUTION
NASA-CR-118 N64-33078 24-18

CHROMIUM, MOLYBDENUM, AND TUNGSTEN BINDERS FOR ZIRCONIUM DIBORIDE SUBJECTED TO MECHANICAL SHOCK AT HIGH TEMPERATURES
BM-RI-6549 N64-33247 24-18

FREQUENCY-DEPENDENT ELECTRICAL CONDUCTIVITY OF POWDERED NICKEL OXIDE DOPED WITH CHROMIUM
GA-4494 N64-33599 24-25

CHROMIUM ALLOY
EFFECT OF ELECTROSLAG REMELTING ON PLASTICITY OF IRON-NICKEL-CHROMIUM BASE ALLOYS
JPRS-21760 N64-10123 01-18

CHROMIUM CARBIDES AND POWDER METAL ALLOYS BASED ON THEM N64-10688 02-18

ANALYSIS OF CREEP DATA OF CHROMIUM AND CHROMIUM ALLOYS
ARL/MET-51 N64-11823 03-18

EVALUATION OF INCONEL WELDING OF AGE HARDENABLE NICKEL-CHROMIUM ALLOY AT ROOM TEMPERATURE
A250 N64-11928 03-18

MODIFIED CHROMIUM-MOLYBDENUM ALLOY STEELS FOR SODIUM COOLING SYSTEMS
NAA-SR-7544 N64-11955 03-18

ALLOYING ELEMENT EFFECT ON PITTING CORROSION IN STAINLESS CHROMIUM-NICKEL STEEL, AND RECORDER FOR POTENTIAL DIFFERENCE AT SURFACE OF ALLOY
JPRS-22291 N64-12439 04-01

ALLOYING ELEMENT INFLUENCE ON RESISTANCE OF AUSTENITE-CHROMIUM-NICKEL STAINLESS STEEL TO CORROSION AND SITE OF PITTING N64-12440 04-18

TENSILE STRENGTH PROPERTY OF CHROMIUM-MAGNESIUM OXIDE ALLOY WITH TITANIUM
AD-424854 N64-13600 04-19

ADHESION OF NICKEL, NICKEL-TITANIUM, & NICKEL-CHROMIUM DROPS TO ALUMINUM OXIDE SINGLE CRYSTAL PLAQUES
AMRA-CR-63-01/4 N64-13998 05-19

K-ABSORPTION EDGE OF CHROMIUM DURING PHASE TRANSFORMATIONS OF IRON-CHROMIUM ALLOYS N64-16222 08-23

ANALYSIS OF TWO-PHASE SYSTEM OF HIGH STRENGTH NICKEL-CHROMIUM ALLOY
FTD-TT-63-479/1 N64-16423 08-18

DIFFUSION OF COBALT IN NICKEL-CHROMIUM ALLOY AND PLASTIC DEFORMATION OF ALLOYS N64-17035 09-25

CHROMIUM-NIOBIUM-VANADIUM ALLOYS N64-17044 09-18

INFLUENCE OF CONCENTRATION OF COMPONENTS IN IRON-CHROMIUM ALLOYS ON STRUCTURE OF ENERGY SPECTRUM OF CHROMIUM & IRON CONDUCTIVITY ZONE N64-17052 09-23

RESISTANCE TO PLASTIC DEFORMATION & HARDNESS OF BINARY SYSTEMS OF NICKEL WITH CHROMIUM, TUNGSTEN, AND MOLYBDENUM AT HIGH TEMPERATURES N64-17068 09-18

ENGINEERING PROPERTIES OF AGE HARDENING NICKEL-CHROMIUM ALLOY - INCONEL N64-17258 09-18

FUSIBILITY OF NICKEL-CHROMIUM-NICKEL ALUMINUM SYSTEMS - LIQUIDUS CURVES
FTD-MT-63-174 N64-18690 11-25

REINFORCEMENT OF IRON- AND NICKEL-CHROMIUM ALLOYS WITH SINGLE CRYSTAL ALUMINA FIBERS
AD-435044 N64-18772 11-18

STACKING FAULT ENERGY AND STRUCTURE DISLOCATION STUDY OF IRON-CHROMIUM-NICKEL ALLOYS AFTER PLASTIC DEFORMATION
UCRL-10890 N64-18984 11-25

DISPERSION STRENGTHENING OF NICKEL-CHROMIUM ALLOYS USING THORIUM OXIDE
AD-432420 N64-19158 11-18

TEMPERATURE DEPENDENCE OF MAGNETOSTRICTION AND COEFFICIENT OF LINEAR EXPANSION OF NICKEL-IRON-CHROMIUM ALLOY
FTD-TT-63-7/1&2&4 N64-19740 12-25

IDENTIFICATION OF HEAT-RESISTANT IRON-NICKEL-CHROMIUM ALLOYS
FTD-TT-63-12/1&2 N64-22137 15-18

COBALT-CHROMIUM-NICKEL ALLOY SUPPLEMENTED BY RHENIUM - HARDNESS, CORROSION AND WEAR RESISTANCE
FTD-TT-62-1840/1&2&4 N64-22407 15-18

EFFECT OF DIFFUSED CHROMIUM PLATING ON MECHANICAL PROPERTIES OF ZIRCONIUM-MOLYBDENUM ALLOY
A745 N64-22587 15-18

TOUGHNESS OF CHROMIUM STEEL SHEET FOR USE IN HIGHLY STRESSED COMPONENTS AS SOLID PROPELLANT ROCKET MOTOR CASTINGS
RK-TR-64-7 N64-24013 16-18

CORROSION RESISTANCE OF CHROMIUM-STEEL TO MERCURY IN RANKINE CYCLE POWER SYSTEM
NASA-CR-54066 N64-25067 17-06

HIGH-STRENGTH, PRECIPITATION-HARDENING, LOW-MAGNETIC IRON-CHROMIUM-NICKEL ALLOYS N64-27148 19-18

OPTIMIZATION OF CHROMIUM-TITANIUM-SILICON COATING PROCESS FOR LABORATORY AND PILOT SCALE COATING FURNACES
ASD TDR-62-934, PT. II N64-27476 19-18

EFFECT OF CERIUM ON MECHANICAL PROPERTIES OF CAST, HEAT-RESISTANT, CHROMIUM-MOLYBDENUM-VANADIUM STEEL N64-29043 21-18

INFLUENCE OF PROCESSING FACTORS ON MECHANICAL PROPERTIES OF HEAT-RESISTANT NICKEL-FREE CHROMIUM-MANGANESE STEEL N64-29044 21-18

ELECTRON PROBE ANALYSIS OF BETA-TITANIUM-VANADIUM, BETA-TITANIUM-NIOBIUM, AND CHROMIUM-VANADIUM DIFFUSION SYSTEMS
NRL-6141 N64-29962 21-18

COMPARATIVE CORROSION RESISTANCE OF CHROMIUM AND NICKEL BASE TURBINE-BLADE ALLOYS TO EXHAUST GASES CONTAINING SULFUR, VANADIUM, AND SODIUM
ARL/ME-247 N64-30250 22-18

MAGNETIC AND PHYSICAL PROPERTIES OF TWO ALLOYS USED IN PRECISION ROTATING COMPONENTS NICKEL-CHROMIUM-IRON ALLOY AND NICKEL-COBALT-IRON ALLOY FOR ROTATING COMPONETS N64-31486 23-18

REFRACTORY NICKEL-CHROMIUM BASED CASTING ALLOYS N64-31514 23-18

PHYSICAL AND CHEMICAL PROPERTIES OF IRON-CHROMIUM-NITROGEN ALLOYS
AD-445860 N64-32983 24-18

TITANIUM, VANADIUM, AND CHROMIUM ALLOY COMPOSITE ROCKET MOTOR CASE
PWA-2364 N64-33649 24-27

CHROMIUM COMPOUND
X-ABSORPTION SPECTRA AND MAGNETIC SUSCEPTIBILITY OF CHROMIUM COMPOUNDS N64-10672 02-19

POWDER METALLURGY STUDIES ON CREEP, SINTERING, CHROMIUM CARBIDE, AND DIFFUSION SATURATION
JPRS-17499 N64-10685 02-18

CHROMIUM CARBIDES AND POWDER METAL ALLOYS BASED ON THEM N64-10688 02-18

SINTERING CHROMIUM BORIDE POWDER UNDER PRESSURE TO FORM COMPACTED RECTANGULAR AND CYLINDRICAL SHAPES N64-11008 02-18

PRODUCING NITRIDES OF REFRACTORY METALS - NIOBIUM, TITANIUM, TANTALUM, AND CHROMIUM N64-11013 02-17

HEAT TREATMENT OF ELECTRODEPOSITED CHROMIUM BASE CERMET COATINGS FOR SOLID PROPELLANT ROCKET NOZZLE
AD-407973 N64-11027 02-26

LINE EMISSION AND ABSORPTION OF CHROMIUM PHOSPHORS
E-T-G-63-17 N64-12823 04-23

LINE EMISSION AND ABSORPTION OF CHROMIUM PHOSPHORS
E-T-G-63-18 N64-12824 04-23

CORROSION RESISTANCE OF DIBORIDES IN PSEUDOBINARY SYSTEM TITANIUM BORIDE-CHROMIUM BORIDE
BR-RI-6418 N64-17986 10-19

INFRARED RADIATION PROPERTIES OF FLAME SPRAYED CERAMIC COATINGS, OXIDES OF ALUMINUM, CHROMIUM, AND ZIRCONIUM, AND SOLID BORON NITRIDE
AMRA-TR-64-03 N64-22710 15-25

PENTAVALENT CHROMIUM COMPLEXES STUDIED BY MEANS OF ELECTRON-SPIN RESONANCE
JPRS-25281 N64-26256 18-07

CHROMIUM COMPOUND POISONING
JPRS-26768 N64-31267 22-16

CHROMIUM FLUORIDE
CHROMIUM TETRAFLUORIDE PREPARATION AND REACTIONS N64-29175 21-07

CHROMIUM STEEL
INFLUENCE OF CHROMIUM CONTENT ON LONGTIME STRENGTH OF CHROMIUM-MOLYBDENUM STEEL N64-17066 09-18

ANNEALING CYCLE EFFECT ON GRAIN SIZE AND PRECIPITATE MORPHOLOGY IN NICKEL-CHROMIUM STEEL
A470 N64-17132 09-18

DEGASSING CHROMIUM STEEL AND CASTING MARAGING STEEL
AGD-TDR-63-708 N64-18260 10-18

CHROMIUM-NICKEL, IRON-CHROMIUM-NICKEL, AND CHROMIUM-NICKEL-COPPER STEEL ALLOY
JPRS-25163 N64-27147 19-18

CHROMIUM-NICKEL STEELS WITH TUNGSTEN, MOLYBDENUM, AND TITANIUM FOR GAS TURBINE PARTS N64-27149 19-18

CHROMOSOME
CF BIOLOGICAL CELL
CF GENETICS
CF NUCLEIC ACID
SPACE FLIGHT EFFECT ON NONDISJUNCTION OF CHROMOSOMES IN DROSOPHILA INSECT N64-11684 03-16

EFFECT OF ADRENALINE HORMONE ON RADIOSENSITIVITY OF CHROMOSOMES AFTER IONIZING RADIATION IN MICE
JPRS-22522 N64-12068 03-16

CHROMOSOME REARRANGEMENT IN MICROSPORES UNDER INFLUENCE OF SPACE FLIGHT CONDITIONS
JPRS-22585 N64-12393 03-16

RESTORATION RATE OF CHROMOSOME MATERIAL IN YEAST CELLS AFTER GAMMA RADIATION N64-12795 04-16

RADIOSENSITIVITY OF CHROMOSOMES OF EMBRYONIC FIBROBLASTS IN GUINEA PIGS AND MICE IN VITRO
JPRS-22719 N64-13163 04-16

VARIATIONS OF RNA IN GIANT CHROMOSOMES OF LARVAE DURING METAMORPHOSIS
JPRS-22666 N64-13229 04-16

X-RAY AND TRITIUM-LABELED-THYMIDINE STUDIES OF CHROMOSOME DIVISION DELAY AND RATE OF DESOXYRIBONUCLEIC ACID SYNTHESIS
UCRL-10979 N64-14428 06-16

CHROMOSOMAL ABERRATIONS IN CHIRONOMUS TENTANS LARVAE EXPOSED TO CHRONIC LOW LEVEL RADIATION
ORNL-3531 N64-14442 06-16

EFFECT OF SPACE FLIGHT CONDITIONS ON CHROMOSOMES OF PRIMARY ROOTLETS OF GERMS IN PEA AND WHEAT SEEDS IN VOSTOK III AND VOSTOK IV SPACECRAFT N64-21644 15-16

MAPPING OF GENETIC SITES ON CHROMOSOMES OF YEAST BY X-RAY IRRADIATION AND INDUCED MUTATION N64-22852 16-16

EFFECT OF DOSE RATE ON CHROMOSOME ABNORMALITIES IN LIVER AND MARROW OF MICE IRRADIATED WITH FAST NEUTRONS, GAMMA-, AND X-RAYS
USNRDL-TR-740 N64-27649 19-16

GENETIC RECOMBINATION BETWEEN RESISTANCE TRANSFER FACTOR AND CHROMOSOME OF ESCHERICHIA COLI
NASA-RP-296 N64-28231 20-16

AUTOMATIC CHROMOSOME ANALYSIS - AUTOMATIC MICROSCOPE, DIGITAL SCANNER, AND COMPUTER PROGRAM
NASA-CR-58533 N64-29698 21-15

CHRONOLOGY
NASA PROGRAM CONCISE CHRONOLOGY
NASA-TM-X-51333 N64-12098 03-01

REVIEW OF 1963 AT GODDARD SPACE FLIGHT CENTER - CHRONOLOGICAL INDEX
NASA-TM-X-51626 N64-19598 12-29

CINEMATOGRAPHY
S MOTION PICTURE

CIRCLE
CF RING
DEFLECTION, SLOPE, AND MOMENT EQUATIONS FOR CIRCULAR PLATES UNDER UNIFORM LOAD ON CONCENTRIC CIRCLE
ANL-6905 N64-33008 24-33

CIRCUIT
SA FLIP-FLOP
SA INTEGRATED CIRCUIT
SA LOOP
SA MICROWAVE CIRCUIT
SA PHASE DETECTOR
SA SWITCHING CIRCUIT
SA TRANSISTOR CIRCUIT
CF NETWORK
ENERGY TRANSFER EFFICIENCY OF RESONANT DISCHARGE CIRCUIT, AND ASSESSMENT OF KINETIC ENERGY OF GAS N64-10144 01-27

DIGITAL CODE CONVERTERS AND CIRCUIT CONSTRUCTION FOR CONVERSION BETWEEN DECIMAL, BINARY-DECIMAL, NUMBER-PULSE, BINARY, AND GRAYS BINARY CODES N64-11532 03-20

PERMANENT MAGNETIC CIRCUIT FOR LOW CURRENT DENSITY ELECTRON BOMBARDMENT ION ROCKET ENGINE N64-11591 03-27

PNEUMATIC CIRCUITS AND SYSTEMS FOR CONTROL, HYDRAULIC CONTROL, AND DRIVE SYSTEMS - AUTOMATION
JPRS-22570 N64-12147 03-06

NONREDUNDANT SELF-REPAIRING ELECTRONIC CIRCUITRY USING NATURAL BEHAVIOR OF CIRCUIT MATERIAL
RADC-TDR-63-175 N64-12207 03-09

PATH CIRCUIT ANALYSIS OF SIGNAL TRANSMISSION FOR SEASONAL VARIATION OF GRAPH PLOTS
N64-12423 04-12

EFFICIENCY DETERMINATION OF COINCIDENCE CIRCUITS FOR COUNTING SIMULTANEOUS EVENTS - INPUT SIGNAL DELAY VARIATION
N64-12554 04-23

PERFORMANCE CHARACTERISTICS OF MODULAR NANOSECOND CIRCUITRY USING TUNNEL DIODES
N64-12558 04-09

RECTIFIERS AND SMOOTHING FILTERS, REGULATORS & VOLTAGE STABILIZERS, AND ELECTRIC CIRCUITS
FTD-TT-63-245 N64-12633 04-06

DIFFUSION TRANSISTOR CONNECTED IN GROUNDED-BASE CIRCUIT
N64-12732 04-09

FREQUENCY CHARACTERISTICS OF TWO COUPLED CIRCUITS WITH VARIABLE CAPACITANCE IN ONE CIRCUIT
N64-12738 04-09

DYNAMICS OF CIRCUIT WITH VARIABLE CAPACITANCE AT LOW REGENERATION LEVEL - EXACT & ASYMPTOTIC FORMULAS PRESENTED AS CURVES
N64-12739 04-09

CIRCUIT ANALYSIS AND OPERATION THEORY OF INDUCTIVELY DRIVEN PLASMA ROCKET
REPT.-9868-6006-TN-000 N64-12966 04-27

MAGNETIC LOGIC COMPUTER FEASIBILITY - FERRITE ELEMENTS, FEW DRIVERS, SEQUENTIAL SWITCH TIMER, & HIGH SIGNAL TO NOISE RATIO
CA-4221-0089-1 N64-13626 05-09

REVERSIBLE OPERATIONAL AMPLIFIER - CIRCUIT DIAGRAMS & ANALYSIS
N64-13741 05-09

INTEGRATED CIRCUITS - AMPLIFIERS, TRANSRECEIVERS & DIGITAL COMMUNICATIONS SYSTEM
AD-423906 N64-14090 05-09

TUNNEL DIODE CIRCUITS COUPLED INTO TRANSMISSION LINES
ONR-155 N64-14491 06-09

APPLICATION OF PULSE SEQUENTIAL CIRCUITRY TO CONTROL DEVICES
TR-1185 N64-14499 06-09

DESIGN AND CIRCUIT CHARACTERISTICS OF 1024 CHANNEL TIME-OF-FLIGHT ANALYZER - ANALOG-TO-DIGITAL CONVERTER
EUR-475.I N64-14749 06-23

PRINCIPLES, CIRCUITS, AND STABILIZATION OF VARIABLE-MU MAGNETOMETER
AFCRL-63-939/1/ N64-14770 06-15

CIRCUITS OF RECEIVING DEVICES IN CONTINUOUS WAVE RADAR SYSTEMS
N64-15140 07-08

CIRCUITRY OF LOW FREQUENCY BLOCKS AND UNITS OF CONTINUOUS WAVE RADARS
N64-15141 07-08

MULTIPLE HETERODYNE CIRCUITS OF FREQUENCY-MODULATED RADARS FOR SINGLE TARGET DETECTION
N64-15142 07-08

SENSITIVITY AND SWITCHING DELAY IN TRIGGER CIRCUIT
EUR-403.1 N64-16203 08-09

RESPONSE FUNCTIONS OF LINEAR TIME VARYING SYSTEMS
AD-422263 N64-16820 08-09

CIRCUIT THEORY AND DESIGN - VARACTOR MULTIPLIERS
N64-17887 10-09

PERFORMANCE PREDICTIONS FOR LONG DISTANCE TROPOSPHERIC COMMUNICATION CIRCUITS IN TANDEM
NBS-TN-102 N64-17996 10-08

CELLULAR LINEAR ARRAYS AND LOGICAL PROPERTIES
AFCRL-64-6 N64-18022 10-20

RADIATION RESISTANT DIGITAL CIRCUITS USING SEMICONDUCTOR DEVICES
SM-45766 N64-18097 10-09

DIAGRAM AND ANALYSIS OF CIRCUIT TO COMPENSATE AUTOMATICALLY FOR NULL DRIFT IN ELECTROMETER AMPLIFIERS
FTD-MT-63-47/1&2 N64-18754 11-09

MANAGEMENT PLANNING OF RESEARCH ON COMPUTER DESIGN AND CIRCUITS
RTD-TDR-63-4173 N64-18939 11-20

LINEAR & NONLINEAR CIRCUIT APPLICATIONS OF THIN FILM TRANSISTORS
DL63-26 N64-19068 11-09

ELECTRIC CIRCUITS FOR TESTING RELIABILITY OF RELAYS
N64-19511 12-17

CIRCUITS FOR SHAPING SIGNALS INTO SQUARE PULSES
N64-20213 13-09

PROTECTION OF TEST EQUIPMENT CIRCUITS FROM EXCESSIVE LOADS
N64-20245 13-09

INVESTIGATION AND ANALYSIS OF CIRCUIT COMPLEXES FOR SELF-REPAIRING SYSTEM OF COMPUTER
AFCRL-63-582 N64-21144 14-20

ANNOTATED BIBLIOGRAPHY ON PRINTED CIRCUITS AND WELDED ELECTRONIC MODULES
REPT.-3-35-64-2 N64-21148 14-09

TRANSISTOR BRIDGE NETWORK - USE OF BASIC DIAMOND CIRCUIT AND ITS DERIVATIVES IN DESIGN OF DATA PROCESSING SYSTEMS
MIT-TR-300 N64-21457 14-09

USE OF RADIOTRACER TECHNIQUE FOR DETERMINING EFFECT OF PROCESS SOLUTION RESIDUES ON PRINTED CIRCUIT BOARD RELIABILITY
TID-20183 N64-21594 15-09

THIN FILM PASSIVE CIRCUITS
GD/A-63-1311 N64-21611 15-09

POWER SUPPLY PROTECTIVE CIRCUITRY
AD-432059 N64-21619 15-09

MULTICHANNEL PHASE TELEMETRY SYSTEM
FTD-TT-62-1636/1&2&4 N64-21655 15-09

CIRCUIT DIAGRAMS AND ELECTRONIC EQUIPMENT CHARACTERISTICS
ISS-63/25 N64-22414 15-09

FILTER INSERTION LOSS AS FUNCTION OF GENERATOR LOAD AND FILTER IMPEDANCES
N64-22833 16-09

BATTERY CHARGER CIRCUIT
ARI-191 N64-22968 16-06

PSYCHOLOGICAL MULTIDIMENSIONAL SCALING OF ANALYSIS OF CONCEPT DIFFICULTY OF ELECTRONIC CIRCUITS
TR-39 N64-23142 16-09

MAGNETIC LOGICAL ELEMENTS
FTD-TT-62-1502/1&2 N64-23285 16-23

HARMONIC ACTION ON SYSTEM OF TWO CIRCUITS COUPLED BY NONLINEAR CAPACITANCE
N64-23798 16-09

PNEUMATIC LOGIC CIRCUITS USING JET AMPLIFIERS
N64-23818 16-11

EQUIVALENT CIRCUIT FOR DISTRIBUTED ENERGY CONVERTERS
NASA-RP-202 N64-23913 16-06

RADIO FREQUENCY INTERFERENCE ANALYSIS OF ELECTRONIC COMPONENTS & CIRCUITS
REPT.-2719-1 N64-24133 16-25

VOLTAGE AND CURRENT TRANSFER FUNCTIONS OF DISTRIBUTED RESISTANCE-CAPACITANCE NETWORKS
AFCRL-64-288 N64-24135 16-09

RELIABILITY ANALYSIS OF ELECTRONIC CIRCUITS
N64-24372 17-09

OPERATION OF TUNNEL DIODE IN PULSE CIRCUITS
N64-24508 17-09

INFORMATION CAPACITY AND QUANTUM EFFECTS IN ELECTROMAGNETIC WAVE PROPAGATION CIRCUITS
ESD-TDR-64-23 N64-24811 17-08

VIBRATION ANALYSIS OF TITAN II CONFIGURATION A - VEHICLE DYNAMIC STABILITY
NRL-5993 N64-25334 17-08

PHOTOEMITTERS, PHOTODETECTORS, AND MICROCIRCUITS FOR OPTICAL INTERCONNECTION STUDY
OPR-3 N64-25344 17-25

PRINTED CIRCUIT CONNECTORS FOR PLUG-IN-MICROASSEMBLIES
REPT.-4 N64-25545 17-09

BILATERAL LINEAR GATE CIRCUIT
LMF-64/18 N64-25653 17-09

SOLID STATE CIRCUITS FOR SATELLITE INSTRUMENTATION
NASA-TN-D-1758 N64-25707 17-09

RADIATION HARDENED READOUT CIRCUITS
FR-6410-105 N64-26062 18-09

MICROMINIATURE DIGITAL INTEGRATOR USING MICROPOWER CIRCUITS N64-26444 18-09

MINIMUM POWER DIGITAL CIRCUITS FOR MARINER II AND OTHER SPACECRAFT N64-26446 18-09

CIRCUIT TO CORRECT OUTPUT WAVEFORM OF TRANSISTOR CHOPPER TO SQUARE WAVE SIGNAL
BI-026 N64-26514 18-09

SILICON SWITCH FOR REDUCTION OF RADIO-FREQUENCY INTERFERENCE IN WEAPON SYSTEM CIRCUITRY
NOLTR-64-43 N64-26563 18-09

PROGRAM FOR COMPUTING LOOP CURRENTS AS FUNCTION OF TIME IN CIRCUIT CONSISTING OF 14 INDUCTIVELY COUPLED LOOPS
UCRL-7864 N64-26842 18-09

MATHEMATICAL ANALYSIS OF PHOTOCONDUCTOR ELECTROLUMINESCENCE CIRCUIT FOR IMAGE INTENSIFIER
NTER-6 N64-26862 18-09

COMPUTATIONAL TECHNIQUES FOR AUTOMATIC FAULT ISOLATION IN ELECTRONIC CIRCUITRY TO COMPONENT LEVEL
APL-TDR-64-62 N64-26958 18-09

HIGH SPEED BISTABLE CIRCUITS, MOTION OF BODY SUPPORTED ON VIBRATING CONICAL SURFACE, AND OPTIMIZING SYSTEMS WITH HIGH INTERFERENCE
JPRS-25764 N64-27058 19-09

DESIGN, FABRICATION, AND PACKAGING OF PULSE AMPLIFIER INTEGRATED MICROCIRCUIT
IR-11 N64-27195 19-09

ANALOG COMPUTER ANALYSIS OF EFFECTS OF TRANSIENT GAMMA RADIATION ON MULTIPLE CIRCUITS
WL-TDR-64-41 N64-27424 19-09

PROBABILISTIC CIRCUIT THEORY - INFORMATION THEORY
RADC-TDR-64-180 N64-27456 19-09

SIMPLIFICATION OF LOW INPUT VOLTAGE CONVERTER REGULATOR CIRCUIT, IMPROVING CIRCUIT PERFORMANCE, AND PROVIDING OVERLOAD PROTECTION
NASA-CR-56450 N64-27875 20-06

EFFECT OF ACCUMULATED HYDROGEN ON CIRCUITRY IMBEDDED IN POLYURETHANE FOAM N64-28220 20-09

TRAVELING WAVE TUBE WITH NONPERIODIC DIELECTRIC CIRCUITS
ONR-7 N64-28614 20-09

COMPONENT VALUES FOR AUTOMATICALLY BALANCING BRIDGE CIRCUITS N64-29133 21-15

OPTIMUM CONTROL FACTORS FOR SINGLE-LOOP LINEAR CIRCUIT - DIGITAL COMPUTATION OF VARIANCE AND AVERAGE VALUES OF NONLINEAR CONTROL SYSTEMS
FTD-TT-63-387/1&2 N64-29322 21-09

OPTIMUM CONTROL FACTORS FOR SINGLE-LOOP LINEAR CONTROL CIRCUIT WITH CONCENTRATED STRUCTURAL ELEMENTS AND MINIMUM PHASES N64-29323 21-09

PNEUMATIC LOGIC ELEMENTS IN RELATION TO ELECTRONIC COUNTERPARTS FOR OPERATION OF COMPUTERS AT LOW SPEEDS
NASA-CR-58360 N64-29569 21-09

ELECTRONIC SWITCHES AND CIRCUITS FOR ANALOG COMPUTATION
NASA-CR-58241 N64-29571 21-08

PRODUCTION METHODS FOR HERMETIC PACKAGING AND INTERCONNECTING OF MICROCIRCUITS
HSER-2884 N64-29819 21-17

VOICE TRANSMISSION INDICATING CIRCUIT
AEL-TR-2469 N64-29934 21-08

THERMIONIC INTEGRATED MICROMODULE /TIMM/ - MATERIALS EVALUATED FOR OPERATION IN SEVERE MECHANICAL, THERMAL, AND RADIATION ENVIRONMENTS
AL-TDR-64-187 N64-29964 21-09

DIODE CLIPPING CIRCUITS AND FREQUENCY DIVERSITY CIRCUIT TO PROVIDE INTERFERENCE REJECTION CAPABILITY FOR RIOMETER
REPT.-191-1 N64-30160 21-15

RADAR SIGNATURES OF INTERFERING TARGETS AND TWO CIRCUITS TO COMBAT INTERFERENCE
ESD-TDR-64-252 N64-30178 21-15

PULSED NUCLEAR RADIATION EFFECTS ON ELECTRONIC CIRCUITS AND DEVICES FOR CIRCUIT RESPONSE PREDICTIONS
WL-TDR-64-60, VOL. II N64-30680 22-09

THEORY OF CASCADE SYNTHESIS FOR LUMPED, PASSIVE N-PORTS
RADC-TDR-64-332 N64-30942 22-09

FERRITE CIRCUIT TO PRODUCE HIGH VOLTAGE NANOSECOND PULSES
JPRS-26780 N64-31023 22-09

BRIDGE CIRCUIT FOR CAPACITY MEASUREMENT OF EVAPORATED AND SPUTTERED THIN FILM DIODES
GE/EE/63-23 N64-31130 22-09

GENERAL METHOD FOR SOLVING COMPLEX MAGNETIC CIRCUITS AND NONLINEAR DIRECT CURRENT CIRCUITS
E-T-CH-63-1 N64-31169 22-09

CIRCUIT DIAGRAMS OF ASPIRATION CONDENSERS IN ION COUNTER N64-31771 23-09

AUTOMATIC FLUID JET AMPLIFIERS AND PNEUMATIC CIRCUITS
JPRS-26746 N64-32127 23-17

OSCILLATOR BUILD-UP TIME CHARACTERISTIC AND EXPRESSION FOR TRANSMITTER BANDWIDTH IN TERMS OF CIRCUIT PARAMETERS FOR UNPOWERED PERSONAL TRANSMITTER
AD-439830 N64-32362 23-09

MICROCIRCUIT 75-COUNTER
NASA-CR-59000 N64-32490 23-09

EPITAXIAL FILM GROWTH OF SILICON MATERIAL FOR SMALL SIZE ELECTRONIC CIRCUITS
AMC-TR-7-995/VII/ N64-32565 23-25

REDUNDANT CIRCUITRY FOR IMPROVED RELIABILITY OF ELECTRONIC EQUIPMENT
NASA-CR-128 N64-32832 24-17

MAGNETIC FLUX SWITCHING IN FERRITES - APPLICATION OF PARABOLIC SWITCHING MODELS TO SOLUTIONS OF MAGNETIC CIRCUITS
NASA-CR-59245 N64-33290 24-09

ANALOG CIRCUITS FOR ENERGY AND FUEL OPTIMAL

CONTROL OF LINEAR DISCRETE SYSTEMS
NASA-CR-59248 N64-33340 24-09

DIFFERENTIAL AMPLIFIER CIRCUITS IN ELECTROPHYSIOLOGICAL RESEARCH
FTD-TT-63-1196/1&2&4 N64-33520 24-09

CRYSTAL STABILIZED HARTLEY OSCILLATOR CIRCUIT AND BASIC OSCILLATOR CIRCUIT
AD-447809 N64-33659 24-09

SILICON CONTROL RECTIFIER INVERTER CIRCUITS FOR ELECTRICAL POWER CONVERSION SYSTEMS AND CIRCUIT PROTECTION FOR SATELLITES
NASA-CR-50937 N64-33779 24-06

CIRCUIT MODULES FOR NUCLEAR EXPERIMENTATION - FAST COINCIDENCE CIRCUITRY WITH ANTICOINCIDENCE AND CURREN LINEAR GATE
LNF-64/17 N64-33857 24-09

CIRCUITS AND CALIBRATION CURVES FOR ACOUSTIC PRESSURE TRANSDUCER - SQUID PROJECT
ILL-16-P N64-33947 24-15

CIRCUIT BOARD
METHODS, EQUIPMENT, & COMPONENT SPECIFICATIONS USED IN FABRICATION OF HIGH RELIABILITY CIRCUIT BOARDS - QUALITY CONTROL
TR-63-307 N64-19576 12-09

USE OF RADIOTRACER TECHNIQUE FOR DETERMINING EFFECT OF PROCESS SOLUTION RESIDUES ON PRINTED CIRCUIT BOARD RELIABILITY
TID-20183 N64-21594 15-09

CIRCUIT BOARD LAYOUTS AND ELECTRONIC AND LOGIC DRAWINGS FOR CIRCUITS IN VOCODER
HB18-A63 N64-26715 18-09

THERMAL SHOCK CRACKING OF GLASS DIODES ON CIRCUIT BOARDS DUE TO CONTRACTION AND EXPANSION OF CONFORMAL COATINGS
RG-TN-63-6 N64-32421 23-09

CIRCULAR CYLINDER
BENDING VIBRATION OF CIRCULAR CYLINDRICAL SHELL WITH INTERNAL LIQUID HAVING FREE SURFACE
N64-10305 01-33

STEADY FLOW OF VISCOUS FLUID PAST CIRCULAR CYLINDER AT REYNOLDS NUMBERS 40 AND 44
ARC-R&M-3175 N64-10404 01-11

PARTICLE CURRENT ACROSS BOUNDARY SURFACE OF UNIFORMLY EMITTING AND SELF-ABSORBENT INFINITE CIRCULAR CYLINDER
EUR-205.F N64-10464 01-23

COANDA FLOW OF TWO-DIMENSIONAL WALL JET ON OUTSIDE OF CIRCULAR CYLINDER
REPT.-63-11 N64-11091 02-11

INFLUENCE OF INITIAL STRESS ON VIBRATIONS OF SIMPLY SUPPORTED CIRCULAR CYLINDRICAL SHELLS
PIBAL-673 N64-11759 03-33

EXTERNAL AND INTERNAL PRESSURES OF CIRCULAR CYLINDER COMPOSED OF FOUR ANVILS
Y-1449 N64-11792 03-23

LAMINAR MAGNETOHYDRODYNAMIC BOUNDARY LAYER AND HEAT TRANSFER IN FLOW AROUND CIRCULAR CYLINDER
NASA-CR-52978 N64-12024 03-23

ELASTIC STRESSES & STRAINS FROM PRESSURE LOADING AND RADIAL TEMPERATURE GRADIENT FOR CIRCULAR DISK, CYLINDER, AND SPHERE
SSD-TDR-63-227 N64-12268 03-33

VIBRATIONS OF ELASTIC STRUCTURES OF CIRCULAR CYLINDRICAL FORM IN SUPERSONIC FLUID FLOW
FTD-TT-63-744/1&2&3 N64-12631 04-33

BUCKLING TESTS ON THIN CIRCULAR CYLINDRICAL SHELLS HEATED ALONG AXIAL STRIP
SUDAER-163 N64-13033 04-33

TORSIONAL MAGNETOELASTIC WAVES IN CIRCULAR CYLINDER IN MAGNETIC FIELD WITH & WITHOUT STEADY ELECTRIC FIELD
E-118.3 N64-14027 05-23

TWO-DIMENSIONAL ANALYSIS OF TRANSIENT HEAT CONDUCTION IN SEGMENT OF HOLLOW CIRCULAR CYLINDER
OR-3351 N64-14817 06-13

INFLUENCE OF PREBUCKLING DEFORMATION AND STRESS ON BUCKLING OF CIRCULAR CYLINDERS
NASA-TR-R-190 N64-15405 07-33

COMPUTER PROGRAM FOR ANALYZING GENERAL INSTABILITY OF ORTHOTROPIC CIRCULAR CYLINDER SUBJECTED TO AXIAL LOAD, END MOMENT, & UNIFORM RADIAL PRESSURE
NASA-CR-55703 N64-15537 07-33

RADIATION PATTERNS FROM AXIAL SLOT ON INFINITE CIRCULAR CYLINDER WITH RADIALLY INHOMOGENEOUS PLASMA COATING
USCEC-82-210 N64-15805 07-24

FORMATION OF VORTICES BEHIND CIRCULAR CYLINDERS IN INCOMPRESSIBLE FLOW
AGARD-463 N64-16539 08-23

FLUTTER OF THIN WALLED CIRCULAR CYLINDER OF FINITE LENGTH IN SUPERSONIC FLOW N64-17551 09-33

FATIGUE TESTING OF CIRCULAR CYLINDER TO FAILURE UNDER BENDING LOADS
NASA-TN-D-2200 N64-17772 09-33

WIND-TUNNEL STUDY ON DRAG OF PARALLEL CIRCULAR CYLINDERS IN SUPERSONIC FLOW N64-18482 10-02

REPEATED BUCKLING OF CIRCULAR CYLINDRICAL SHELLS AND CONICAL SHELLS BY AXIAL COMPRESSION
SUDAER-175 N64-18843 11-33

CREEP ANALYSIS OF THIN CIRCULAR CYLINDRICAL SHELLS
PIBAL-685 N64-20330 13-33

COMPUTER EVALUATION OF INFINITE INTEGRALS OF CIRCULAR CYLINDRICAL SURFACE WITH BESSEL FUNCTIONS
DTMB-1580 N64-20341 13-20

STABILITY PROBLEM OF VISCOUS INCOMPRESSIBLE FLOW BETWEEN ROTATING COAXIAL CIRCULAR CYLINDERS WITH ADDED AXIAL FLOW
DVL-290 N64-20426 13-02

OSCILLATING BEHAVIOR OF TRANSVERSELY LOCATED CIRCULAR CYLINDER SHELL
DFL-231 N64-21707 15-33

ELECTROMAGNETIC BACKSCATTERING CROSS SECTION OF CIRCULAR CYLINDRICAL SECTION
ESD-TDR-64-36 N64-22239 15-24

DISPLACEMENT OF BUCKLING OF AXIALLY COMPRESSED CIRCULAR CYLINDRICAL SHELLS
SSD-TDR-64-24 N64-22303 15-33

GRAVITY MODES ON ROTATING SHALLOW LAYER OF LIQUID IN CIRCULAR CYLINDER WITH PARABOLOID BOTTOM
N64-24679 17-20

FREQUENCY OF FINITE-AMPLITUDE AXISYMMETRIC GRAVITY WAVES IN CIRCULAR CYLINDER N64-24680 17-20

BUCKLING STRENGTH OF UNIFORM CIRCULAR CYLINDER LOADED IN AXIAL COMPRESSION
ARC-R&M-3366 N64-26547 18-33

STABILITY OF LIQUID LAYER OF UNIFORM THICKNESS SPREAD OVER RIGID CIRCULAR CYLINDER SUBJECTED TO LATERAL ACCELERATIONS
NASA-TN-D-2450 N64-27951 20-11

LINEAR THEORY FOR CALCULATION OF STABILITY OF CIRCULAR CYLINDRICAL CASINGS N64-30419 22-33

SHELL & ELASTICITY THEORY EQUATIONS FOR THICK ORTHOTROPIC CIRCULAR CYLINDRICAL SHELLS
RE-182 N64-33553 24-33

INVESTIGATION OF INFINITE CIRCULAR CYLINDRICAL

SHELL SUBJECTED TO PERIODICALLY SPACED AXISYMMETRIC BAND LOADS - REISSNER EQUATION
PIBAL-689 N64-33760 24-33

CIRCULAR ORBIT
ORBITAL TRANSFER OF SATELLITE SYSTEMS IN CIRCULAR ORBITS
TDR-269/4526-20/-1 N64-12187 03-29

LONG-TERM EVOLUTION OF CIRCULAR NEAR-EQUATORIAL ORBITS AT MEDIUM DISTANCES FROM EARTH
RAE-TN-SPACE-46 N64-13363 04-29

ANALYTIC DETERMINATION OF MAGNETIC FIELD AROUND SATELLITE IN CIRCULAR ORBIT FOR ATTITUDE CONTROL SYSTEM USING SATELLITE MAGNET
NASA-TN-D-2041 N64-15218 07-12

GRAPHS FOR CIRCULAR AND TRANSFER ORBITS UP TO 40,000-KM. ALTITUDE
NASA-TM-X-54563 N64-15863 07-29

SUBSATELLITE PATH FOR 24-HOUR ORBITS AFFECTED BY CHANGES IN ECCENTRICITY, INCLINATION, AND ARGUMENT OF PERIGEE - ORBITAL PATH OF SYNCOM II
NASA+TM-X-54564 N64-15864 07-29

LAUNCH VEHICLE PERFORMANCE REQUIREMENTS FOR RENDEZVOUS WITH SATELLITES IN CIRCULAR ORBIT
SSD-TDR-63-320 N64-16651 08-29

OUT-OF-PLANE MOTION OF CIRCULAR SATELLITE ORBIT
NASA-CR-53088 N64-16740 08-29

PROPULSION SYSTEM REQUIREMENTS FOR CIRCULAR ORBIT PLANE CHANGE WITH AND WITHOUT AUXILIARY AERODYNAMIC FORCES
SSD-TDR-63-366 N64-17898 10-29

ORBIT DETERMINATION ERROR FOR VEHICLES IN NEAR CIRCULAR LUNAR ORBITS N64-18086 10-29

ERROR ANALYSIS FOR POSITION AND VELOCITY PREDICTION OF NEARLY CIRCULAR SATELLITE ORBITS
M-6637 N64-19866 12-29

THOR DELTA LAUNCH VEHICLE PAYLOAD CAPABILITY FOR POLAR, CIRCULAR, AND ELLIPTICAL ORBITS
NASA-CR-56312 N64-24055 16-30

EVOLUTION OF CIRCULAR ORBIT OF SATELLITE MOVING IN GRAVITATIONAL FIELD OF EARTH
N64-29077 21-29

IN-PLANE RENDEZVOUS FROM INNER CIRCULAR PARKING ORBIT TO OUTER CIRCULAR TARGET ORBIT
TDR-269/4550-10/-7 N64-29796 21-29

CIRCULAR AND ELLIPTICAL TARGET ORBITS FOR MULTIPLE FLYBY INTERCEPTOR VEHICLES
TDR-269/4130-13/-1 N64-31055 22-29

CIRCULAR PLATE
VISCOELASTIC DAMPING EFFECTIVENESS OF ADHESIVE SUPPORT OF BUILT-IN CIRCULAR PLATES
ASD-TDR-63-648 N64-12049 03-11

CREEP BEHAVIOR OF CIRCULAR PLATES
PIBAL-677 N64-12978 04-33

PHOTOELASTIC STRESS MEASUREMENT OF ULTRASONIC ECHO PATTERNS IN CIRCULAR GLASS PLATES OF VARIOUS SIZES AND SHAPES
NAL-TR-143.5/2 N64-13725 05-23

FREQUENCIES AND MODES OF VIBRATION OF BUCKLED CIRCULAR PLATES
NASA-TN-D-2245 N64-14987 06-33

THEORY OF STRENGTH OF CIRCULAR PLATES ON ELASTIC SEALED FOUNDATIONS - OBSERVATIONS OF NEWLY FROZEN ICE SHEETS ON POOLS OF WATER
CRREL-118 N64-18364 10-33

EFFECT OF FREE SURFACE ON SHAPE OF VENTILATED CAVITY PRODUCED BY CIRCULAR PLATE
REPT.-E-118.15 N64-21365 14-11

EFFECTS OF CONCENTRICAL RIBS ON FREQUENCY OF FREE OSCILLATIONS OF ROUND AND RING SHAPED PLATES
FTD-TT-63-810 N64-22661 15-33

RADIATION OF SOUND FROM CIRCULAR DISK WITH UNIFORM PRESSURE DISTRIBUTION
TRG-142-TN-64-2 N64-26032 18-23

RELATION OF DEFLECTION TO PRESSURE FOR CLAMPED CIRCULAR PLATE IN PLASTIC RANGE
WAPD-282 N64-27412 19-33

ELASTIC STABILITY IN NON-LINEAR SNAP BUCKLING - SNAP BUCKLING OF CIRCULAR PLATES DUE TO RAPID HEATING OR COOLING N64-28097 20-33

BENDING OF CIRCULAR PLATES UNDER VARIABLE SYMMETRICAL LOADS
ANL-6882 N64-28254 20-33

NONLINEAR THEORY OF ELASTICITY - DEFORMATION OF PRE-STRESSED CIRCULAR PLATES AND RINGS BY HYDROSTATIC PRESSURES
NASA-CR-58572 N64-29688 21-33

NONLINEAR BENDING VIBRATIONS OF RECTANGULAR AND CIRCULAR PLATES UNDER VARIOUS BOUNDARY CONDITIONS
REPT.-149 N64-31438 23-33

DEFLECTION, SLOPE, AND MOMENT EQUATIONS FOR CIRCULAR PLATES UNDER UNIFORM LOAD ON CONCENTRIC CIRCLE
ANL-6905 N64-33008 24-33

CIRCULAR SHELL
BUCKLING LOADS OF LONGITUDINALLY PRESSED THIN-WALLED CIRCULAR CYLINDRICAL SHELLS
DFL-214 N64-15021 07-33

CREEP BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECTED TO AXIAL COMPRESSION
FFA-98 N64-25999 18-33

DONNELL EQUATION FOR BUCKLING OF THIN WALLED CIRCULAR CYLINDRICAL SHELLS SUBJECTED TO UNIFORM AXIAL COMPRESSION
AFOSR-64-1037 N64-26187 18-33

STRESS CONCENTRATION IN NONLINEAR CREEP OF CIRCULAR CYLINDRICAL SHELL
NONR-562/20//36 N64-33022 24-33

INVESTIGATION OF INFINITE CIRCULAR CYLINDRICAL SHELL SUBJECTED TO PERIODICALLY SPACED AXISYMMETRIC BAND LOADS - REISSNER EQUATION
PIBAL-689 N64-33760 24-33

CIRCULAR TUBE
LIFT COEFFICIENT OF SPHERE MOVING IN CIRCULAR TUBE
IS-615 N64-16671 08-02

CIRCULATION
LIQUID COOLING FOR RECIRCULATION SYSTEM OF OPEN CYCLE FUEL CELL
NASA-CR-55966 N64-17687 09-06

REDUCTION OF CATALYST NEEDED FOR CONTINUOUS DISSOLUTION OF ALUMINUM IN NITRIC ACID BY RECIRCULATION OF DISSOLVER EFFLUENTS
IDO-14637 N64-21774 15-07

RECIRCULATION AND LIFESPAN OF SMALL LYMPHOCYTES IN RAT
AAL-TDR-63-17 N64-31829 23-16

SEARCH FOR HEMATOLOGICAL PARAMETER INDICATING EFFECT OF COLD ACCLIMATIZATION ON FORMED ELEMENTS IN MOUSE PERIPHERAL BLOOD
AAL-TDR-63-3 N64-31934 23-16

CIRCULATORY SYSTEM
CF BLOOD CIRCULATION
ELECTROCARDIOGRAPHIC EXAMINATION OF EFFECTS OF AIR AND SPACE FLIGHT ACCELERATIONS ON HUMAN CIRCULATORY SYSTEM
DVL-259 N64-10236 01-16

EFFECT OF SOLAR RADIATION ON HUMAN BLOOD AND CIRCULATORY SYSTEM
JPRS-21864 N64-10327 01-16

CHANGES IN MORPHOLOGY OF BLOOD IN ATHLETES AFTER UNDERWATER SUBMERSION - RESUSCITATION OF DOGS AFTER DEATH BY ELECTRIC TRAUMA
JPRS-18855 N64-10867 02-16

INFLUENCE OF SOLAR ACTIVITY ON THE CIRCULATORY & HEMATOPOIETIC SYSTEMS AND BLOOD COMPOSITION OF MAN
JPRS-18960 N64-11121 02-16

TRANSPORT OF CHEMICALLY REACTING MOLECULES IN CAPILLARIES OF CIRCULATORY SYSTEM
NASA-TN-D-2063 N64-11556 03-07

EFFECTS OF CHRONIC IRRADIATION ON CIRCULATION IN WORKERS EXPOSED TO OVERDOSES OF X-RAYS AND GAMMA RAYS - INDUSTRIAL SAFETY N64-12749 04-16

PSYCHOMOTOR AROUSAL, HEMORRHAGE, AND UPRIGHT POSTURE EFFECTS ON CIRCULATION OF CHIMPANZEE
ARL-TDR-63-28 N64-13854 05-16

CHANGES OF MORPHOLOGICAL & FUNCTIONAL PROPERTIES OF BLOOD & HEMODYNAMICS DURING USE OF EXTRACORPORAL CIRCULATION SYSTEMS
JPRS-22914 N64-14133 05-16

REACTION OF CIRCULATION, RESPIRATION, AND METABOLIC FUNCTIONS TO CHANGING CLIMATE AT HIGH ALTITUDE N64-15046 07-16

FUNCTIONS OF CIRCULATORY, RESPIRATORY, & NERVOUS SYSTEMS IN HUMAN BODY
AMRL-TDR-63-105 N64-16807 08-16

CATHETER FOR RIGHT HEART AND PULMONARY ARTERY IMPLANTATION
SAM-TDR-64-10 N64-18918 11-16

PHYSIOLOGY AND PATHOLOGY OF CIRCULATORY SYSTEM
NASA-TT-F-173 N64-23204 16-16

EFFECTS OF HAND IMMERSION IN COLD WATER ON DIGITAL BLOOD FLOW
AAL-TDR-63-35 N64-33524 24-16

CIRCUMPOLAR VORTEX WIND
S METEOROLOGY
S VORTEX

CISLUNAR SPACE
TWO-BODY SPACECRAFT GUIDANCE IN CISLUNAR SPACE OF EARTH-MOON TRAJECTORY
NASA-CR-55031 N64-12033 03-29

CLADDING
ALLOY MATERIALS FOR SUPERHEAT FUEL SHEATHS
GEAP-4351 N64-16550 08-18

MONITORING OF FISSION PRODUCTS IN EXPERIMENTAL BREEDER REACTOR-1 IN EVENT OF FUEL ELEMENT CLADDING FAILURE
ANL-6788 N64-17779 09-23

STABILITY OF ZIRCALOY CLAD URANIUM DIOXIDE FUEL ELEMENTS IRRADIATED TO HIGH BURNUP
CRFD-1178 N64-28256 20-18

CLAY
CF REFRACTORY MATERIAL
CF ROCK
CF SOIL
CRYSTALLIZATION IN GLASSES OBTAINED FROM LOW MELTING CLAYS N64-23185 16-19

USE OF LOW MELTING CLAY FOR PRODUCTION OF GLASS CONTAINERWARE N64-23187 16-19

POROUS MATERIALS OBTAINED FROM BYELOROUS CLAYS N64-23191 16-19

CLAY AND GROG FOR INCREASING SAGGER QUALITIES OF CERAMICS N64-23192 16-19

TESTING CLAY FROM CONNECTICUT FOR LIGHTWEIGHT AGGREGATE USE
BM-IC-8228 N64-28069 20-19

CLEAN ROOM
S ENVIRONMENTAL CONTROL

CLEANING
CF PURIFICATION
CF REFINING
CLEANING PROCEDURES FOR ZIRCALOY PRESSURE BONDING
WAPD-TM-375 N64-10366 01-17

BATH CLEANING METHOD FOR REMOVING SCALE ON ROLLED METAL
FTD-TT-62-1295/1 N64-22166 15-17

CLEANING OF FLEXIBLE STAINLESS STEEL BOOSTER VEHICLE FUEL AND OXYGEN LINES
NASA-CR-58585 N64-29000 20-17

PLASMA TORCH CLEANING OF ALUMINUM ALLOY JOINTS BEFORE WELDING
MRI-106.04 N64-32943 24-17

ULTRASONIC CLEANING PROCESSES USING RADIOISOTOPES TO CONTAMINATE TEST SPECIMENS
NASA-CR-59376 N64-33905 24-17

CLEAVAGE
MICROCRACK PROPAGATION OF CLEAVAGE FRACTURE IN POLYCRYSTALLINE IRON
SSC-161 N64-21153 14-25

EMPIRICAL FORMULAS FOR CLEAVAGE ENERGY OF BORON
BOND N64-26399 18-07

CLEAVAGE REACTIONS IN CROSS LINKED URETHANE ELASTOMERS
ONR-TR-RLT-82 N64-28982 20-07

CLEBSCH-GORDON COEFFICIENT
ORTHOGONAL PROPERTIES OF CLEBSCH-GORDON COEFFICIENTS OF COMPACT GROUPS FOR DEVELOPMENT OF GENERALIZED SHMUSKEVICH METHOD
URPA-15 N64-11406 02-20

ALGEBRAIC TABULATION OF CLEBSCH-GORDAN COEFFICIENTS OF UNITARY SYMMETRY
UR-875-56 N64-33070 24-23

CLIMATE
ATLANTIC OCEAN - WINTER HEAT SOURCE FOR EUROPE AND EFFECT ON SECONDARY MAGNETIC FIELD
JPRS-19896 N64-10660 01-12

INVESTIGATIONS OF EFFECT OF SOLAR ACTIVITY ON CLIMATE AND METEOROLOGY
JPRS-23235 N64-15618 07-21

COMPUTATION OF MAXIMUM WIND VELOCITIES AND MINIMUM TEMPERATURES - METEOROLOGY N64-15619 07-21

LONG-TERM EFFECT OF SOLAR ACTIVITY ON CLIMATE AND HYDROLOGIC CYCLES N64-15620 07-21

STATISTICAL INVESTIGATIONS OF EFFECT OF SOLAR ACTIVITY ON CLIMATE N64-15621 07-21

LONG TERM RELATIONSHIPS BETWEEN SOLAR ACTIVITY AND CLIMATE N64-18095 10-21

LAKE ICE FORMATION IN TEMPERATE CLIMATE
CRREL-107 N64-18848 11-21

CLIMATE, TOPOLOGY, LAND USE, AND ACCESSIBILITY OF THREE AREAS FOR POSSIBLE AIRPORT SITE N64-27781 19-10

GEOGRAPHICAL & CLIMATIC FACTORS IN RIVER REGIMES IN USSR - ATMOSPHERIC WATER VAPOR AND CONDENSATION, EVAPORATION, TEMPERATURE OF RIVER WATER, AND ICE FORMATION
JPRS-26519 N64-31079 22-12

CLIMATOLOGY
CONTROL OF ENTIRE EARTH CLIMATE BY REGULATING INCIDENT SOLAR ENERGY - PROJECTS FOR CLIMATE CONTROL OVER LOCAL GEOGRAPHIC AREAS
JPRS-19145 N64-11126 02-21

WEATHER ANALYSIS AND FORECASTING - CLIMATOLOGY
AFCRL-63-718 N64-11601 03-21

EXPERIMENT IN PRECIPITATION PARTICLE MEASUREMENT BY MEAN VERTICAL VELOCITY, TEMPERATURE, AND

HUMIDITY COMPUTATIONS - WEATHER FORECASTING
N64-11603 03-21

VERTICAL CIRCULATION PRODUCED BY LATENT HEAT IN A STATIC AND QUASI-GEOSTROPHIC ATMOSPHERE - CLIMATOLOGY
N64-11604 03-21

COORDINATE SYSTEM FOR SURFACE REPRESENTATION OF TOPOGRAPHY OF EARTH SURFACE - CLIMATOLOGY
N64-11605 03-21

WINTER SEASON CLIMATOLOGY OF ARCTIC STRATOSPHERE
N64-11606 03-21

FORECASTING PRECIPITATION, CLOUD SEEDING, AND HEIGHT OF LOWER BOUNDARY OF CLOUDS
JPRS-18696 N64-11836 03-21

THERMAL CONDITIONS FOR INDUCING WINTER PRECIPITATIONS BY ANTIHAIL ROCKET
N64-11837 03-21

HYGROSCOPIC SALTS IN ANTIHAIL ROCKETS FOR STABILIZING FOG - SOLID CARBON DIOXIDE & SILVER IODIDE
N64-11838 03-21

PRECIPITATION AND CLOUD DISPERSAL BY ACTION OF AQUEOUS SOLUTIONS OF LEAD IODIDE ON SUPERCOOLED CLOUDS
N64-11840 03-21

SOLID FUEL TORCHES FOR DISPERSING SUPERCOOLED FOGS NEAR GROUND
N64-11841 03-21

LAYER METHOD FOR HAIL FORECASTING
N64-11842 03-21

FORECASTING AMOUNT OF AIR-MASS SHOWER PRECIPITATION BY LAYER METHOD
N64-11843 03-21

OBSERVATION OF CLOUDINESS & PRECIPITATION TO ESTIMATE CLIMATIC RESOURCES FOR ARTIFICIAL INCREASE OF PRECIPITATION
N64-11844 03-21

CORRELATION OF PRECIPITATION DATA IN VARIOUS SECTIONS OF LAKE SEVAN BASIN
N64-11845 03-21

HEIGHT OF CONDENSATION LEVEL - LOWER BOUNDARY OF CLOUDS
N64-11846 03-21

PATTERN OF SUMMER PRECIPITATION ON LEEWARD SLOPE OF MOUNTAINS IN ARID ZONES OF ARMENIA
N64-11847 03-21

CLIMATOLOGY OF UPPER AIR RELATED TO DESIGN AND OPERATION OF SUPERSONIC AIRCRAFT
N64-11943 03-21

CLIMATE CONTROL STUDIES
JPRS-22798 N64-13352 04-21

SUBSECULAR FLUCTUATION OF LAKE WATER LEVEL IN WESTERN SIBERIA AND NORTHERN KAZAKHSTAN - RELATIONSHIP WITH CLIMATIC FLUCTUATIONS
T-399-R N64-14723 06-12

CLIMATOLOGICAL STUDY OF AIR CURRENT PATTERN IN CYCLONE-ANTICYCLONE SYSTEM, AND OF MECHANISM OF COLD WAVE AND COLD WEATHER ONSET
RSIC-120 N64-15064 07-21

CLIMATE, ATMOSPHERIC STRUCTURE, AND CIRCULATION OF POLAR REGIONS
N64-16148 08-21

UPPER AIR CLIMATOLOGY - WIND PROFILE CHARTS
N64-16303 08-21

EQUATORIAL EXTENSION OF TROUGHS IN UPPER WESTERLIES AND RELATION OF TROPOSPHERIC FLOW TO ONSET OF MONSOON RAINS OVER INDIA
N64-16307 08-21

THUNDERSTORM DISTRIBUTION OVER EXTENSIVE AREAS - CLIMATOLOGY
AFCRL-63-910 N64-16823 08-21

PHOTOGRAPHS OF CLOUD DISTRIBUTION BY TIROS SATELLITES - CLIMATOLOGY
AFCRL-64-229 N64-18180 10-21

PHOTOGRAPHS OF CLOUD DISTRIBUTION BY TIROS SATELLITES - CLIMATOLOGY
AFCRL-64-230 N64-18181 10-21

HEAT AND WATER BALANCES IN CLIMATOLOGY - METHODS, COMPUTATION PRECISION, AND RELATIONSHIP
JPRS-23924 N64-18347 10-21

TOPOGRAPHICAL SKETCHS, CLIMATOLOGICAL TABLES, AND ANNUAL WINDROSES FOR AIRPORTS
UAL METEOROL. CIRC. 55 N64-18404 10-21

CLIMATOLOGY - RADAR DATA OF TROPOPAUSE PENETRATION
AFCRL-64-111 N64-22381 15-21

CLIMATOLOGY - TEMPERATURE AND HUMIDITY TABLES FOR TROPICS AND TEMPERATE REGIONS
AD-600318 N64-22517 15-21

METEOROLOGY AND CLIMATOLOGY - ANNOTATED BIBLIOGRAPHY
AID-P-64-37 N64-23272 16-22

CLIMATOLOGY FINDINGS OF METEOROLOGICAL ROCKET NETWORK
N64-23871 16-21

SYNOPTIC CLIMATOLOGY & TROPICAL METEOROLOGY
AD-435579 N64-24062 16-21

EARTH CLIMATE, ATMOSPHERIC CIRCULATION, HEAT BALANCE, AND WEATHER FORECASTING
NASA-TT-F-168 N64-24401 17-21

HUMAN CONTROL OF WEATHER AND CLIMATE
N64-24404 17-21

CLIMATE OF USSR
N64-24413 17-21

CLIMATE AND WEATHER STUDIES FOR AGRICULTURAL PURPOSES
N64-24414 17-21

ANTARCTIC MICROMETEOROLOGY AND CLIMATOLOGY
N64-24484 17-21

CLIMATOLOGY - RELATION BETWEEN ATMOSPHERIC RADIATION AND CLOUDINESS
N64-24789 17-21

ACTINOMETRIC OBSERVATIONS OF RADIATION CLIMATE OF CENTRAL ARCTIC
N64-24797 17-21

GUIDELINES OF PROBABLE TERRESTRIAL ENVIRONMENTAL DATA FOR SPACE VEHICLE DEVELOPMENT
NASA-TM-X-53023 N64-26359 18-21

CLIMATOLOGICAL DENSITY DATA FOR STATIONS IN ASIA AND EUROPE
NWL-1909 N64-26574 18-21

DAILY VARIATION IN MEAN CLOUDINESS OVER USSR
FTD-TT-63-1205/1&2&4 N64-27329 19-21

CLIMATOLOGICAL AND AERODYNAMIC CHARACTERISTICS OF RADIO ANTENNAS
N64-27332 19-08

QUANTUM MEASUREMENT OF TIME, ELECTRONICS, CLIMATOLOGY, HYDROLOGY, AND MIXING EFFECT OF DISPERSION BETWEEN LIQUIDS
JPRS-26128 N64-28433 20-01

HEAT BALANCE METHOD FOR ANALYSIS OF CLIMATIC CHANGE AND POSSIBILITY OF CLIMATE CONTROL
T-R-436 N64-28799 20-21

METHODS FOR CONTROLLING CLIMATE
T-R-435 N64-29376 21-21

TROPICAL EASTERLY JET CLIMATOLOGY
FR-1 N64-29436 21-21

CONFERENCE ON CONTROL OF METEOROLOGICAL PROCESSES
T-R-438 N64-29444 21-21

ORIGIN AND CLIMATOLOGY OF NOCTILUCENT CLOUDS
TR-181 N64-29447 21-21

CLIMATOLOGICAL PATTERN OF MECHANICAL ENERGY DISSIPATION IN LOWER ATMOSPHERE OVER NORTHERN HEMISPHERE
N64-29533 21-21

HYDRODYNAMIC THEORY OF CLIMATE AND LONG RANGE WEATHER FORECASTING N64-29667 21-21

PALEOCLIMATOLOGY OF ICE AGES N64-30511 22-12

EFFECT OF LAKE DEPTH AND SIZE ON HEAT BALANCE AND ICE FORMATION
TR-13 N64-30810 22-21

CLIMATOLOGIC DATA FOR AIRPORT LANDING SYSTEMS - CLEVELAND, OHIO
RD-64-54, VOL. 13 N64-31143 22-22

CLIMATOLOGY OF PROPOSED LANDING SYSTEMS FOR MAJOR AIRPORTS - ATLANTA, GEORGIA
RD-64-54, VOL. 14 N64-31144 22-22

CLIMATOLOGY OF PROPOSED LANDING SYSTEMS FOR MAJOR AIRPORTS - NEWARK, NEW JERSEY
RD-64-54, VOL. 15 N64-31145 22-22

CLIMATOLOGICAL DATA FOR AIRPORT LANDING SYSTEMS - SAN FRANCISCO, CALIFORNIA
RD-64-54, VOL. 16 N64-31146 22-22

CLIMATOLOGICAL DATA FOR AIRPORT LANDING SYSTEMS - FORT WORTH, TEXAS
RD-64-54, VOL. 17 N64-31147 22-22

CLIMATOLOGICAL DATA FOR AIRPORT LANDING SYSTEMS - HOUSTON, TEXAS
RD-64-54, VOL. 18 N64-31148 22-22

CLIMATOLOGY OF CAUCASIAN USSR
FTD-MT-63-336 N64-32244 23-12

CEILING, VISIBILITY WIND, AND WEATHER DATA FOR WASHINGTON NATIONAL AIRPORT
RD-64-54, VOL. 12 N64-32543 23-22

CLIMATOLOGY OF WINDS AND TEMPERATURES IN TROPICAL STRATOSPHERE
NWRF-26-0564-092 N64-33062 24-21

CLIMATOLOGY FROM TIROS SATELLITE RADIOMETRY DATA - ATMOSPHERIC MOISTURE AND HEAT BALANCE
NASA-TM-X-55088 N64-33637 24-12

CLINICAL MEDICINE
BIOMEDICAL EVALUATION OF BURN SHOCK AGAINST BACKGROUND OF RADIATION EFFECT N64-10009 01-16

ELECTROCARDIOGRAPHIC FUNCTIONS IN CLINICAL MEDICINE OF HUMAN BODY ELECTRIC FIELDS
JPRS-19030 N64-11123 02-16

MEDICAL CLINIC INVESTIGATION OF WATER RECOVERED FROM HUMAN URINE
AMRL-TDR-63-70 N64-11445 03-16

BIOMEDICAL COMMUNICATIONS DESCRIPTION OF COSMONAUTS GROUP FLIGHT IN VOSTOK III AND IV SPACECRAFT
FTD-TT-62-1578/1&2 N64-12055 03-32

BIOMEDICAL REQUIREMENTS & DESIGN CRITERIA FOR MAN-MACHINE SYSTEM CONFIGURATION FOR USE IN PROPOSED AEROSPACE ENVIRONMENTAL CHAMBER
AEDC-TDR-63-256 N64-12226 03-16

NASA SPACE MEDICINE PROGRAM, BIOMEDICAL RESEARCH, AND LIFE SCIENCES RESEARCH
NASA-TM-X-51344 N64-14866 06-16

STERILIZED FIBERS FOR CLINICAL MEDICINE
JPRS-23609 N64-16545 08-16

CLINICAL MEDICINE STUDIES OF PHYSIOLOGICAL EFFECTS OF RADIATION EXPOSURE
ORO-614 N64-16551 08-16

BIOMEDICAL RESEARCH ON MOLECULAR AND CELLULAR RADIOBIOLOGY IN MAMMALS
LAMS-3034 N64-16573 08-16

APPLICATIONS OF ANALOG SIMULATIONS IN BIOMEDICAL SYSTEMS N64-16691 08-16

RESPIRATORY PHYSIOLOGY AND PULMONARY CIRCULATION
AMRL-TDR-63-103/1/ N64-17926 10-16

ABDOMINAL & THORACIC PRESSURES AT DIFFERENT LUNG VOLUMES N64-17927 10-16

MANUAL METHOD OF ANALYSIS OF BIOMEDICAL DATA FOR FEASIBILITY STUDY OF CONVERSION TO AUTOMATIC DATA PROCESSING SYSTEM
TM-1210/000/01 N64-19919 12-16

BIOMEDICAL PROBLEMS OF ALTITUDE ACCLIMATIZATION FOR MAINTENANCE OF PHYSICAL AND MENTAL PERFORMANCE OF TROOPS AT 10,000 FEET OR ABOVE
AD-428100 N64-19965 12-14

INCREASED EFFECTIVENESS OF LIMITED SYSTEMS BY CONTROL THEORY - APPLICATION TO BIOMEDICINE
RM-3956-PR N64-21161 14-20

BIOMEDICAL RESEARCH IN ACCELERATION, IMPACT, WEIGHTLESSNESS, VIBRATION, AND EMERGENCY ESCAPE AND RESTRAINT SYSTEM - BIBLIOGRAPHY
CARI-63-30 N64-22711 15-16

METHOD OF TREATMENT OF AURICULAR FIBRILLATION
NASA-TT-F-8555 N64-23117 16-16

RADIOISOTOPES IN CLINICAL MEDICINE - LOCALIZATION OF PLACENTA IN GASTROINTESTINAL TRACT N64-24007 16-16

LONG-RANGE TECHNOLOGICAL FORECASTING IN BIOLOGICAL AND MEDICAL SCIENCES
AD-436723 N64-24070 16-16

PHOTOELECTRONIC UNIT FOR BIOMEDICAL STUDY OF SPECTRAL DISPERSION OF CATECHOLAMINES N64-24563 17-16

BIOMEDICAL AND HUMAN FACTORS FOR MANNED EARTH ORBITING STATION
NASA-CR-56021 N64-25950 18-14

MEDICAL PROCEDURES AND PRECAUTIONS IN THE EVENT OF RADIATION ACCIDENTS
JPRS-26021 N64-28439 20-16

CLOSED CYCLE
SHIELDING DESIGN FOR CLOSED-CYCLE, GAS-COOLED NUCLEAR POWERPLANT
IDO-28609 N64-10857 02-23

CLOSED CYCLE ENVIRONMENT SIMULATION TRAINING EQUIPMENT
NAVTRADEVCEN-1097-1 N64-25378 17-06

CLOSED ECOLOGICAL SYSTEM
SA OXYGEN PRODUCTION
CF LIFE SUPPORT SYSTEM
CF SPACE CABIN ATMOSPHERE
PLEXIGLAS CONTAINERS FOR BIOLOGICAL MATERIAL IN SPACECRAFT ENVIRONMENT DURING FLIGHT N64-11702 03-16

SPACE BIOLOGY - PHYSIOLOGICAL EFFECTS, EXTRA-TERRESTRIAL LIFE, CLOSED ECOLOGICAL SYSTEM, SECURITY, LIFE EFFECTS, AND RADIOBIOLOGY N64-11855 03-01

PHOTOSYNTHETIC GAS EXCHANGERS FOR CLOSED ECOLOGICAL SYSTEM N64-13715 05-16

PROBLEMS OF PROVIDING ATMOSPHERE FOR SPACE CABIN - AIR CONDITIONING SYSTEMS
FTD-TT-62-1545/1 N64-15590 07-16

CHARACTERISTICS OF ARTIFICIAL SUBSTRATES FOR USE IN CLOSED ECOLOGICAL SYSTEMS N64-23753 16-16

CULTIVATION OF UNICELLULAR ORGANISMS FOR USE IN CLOSED ECOLOGICAL SYSTEM N64-23781 16-16

PHARMACOLOGY & TOXICOLOGY OF DRUGS IN CLOSED ECOLOGICAL SYSTEMS N64-24617 17-16

CHEMICAL DETECTION METHODS TO EVALUATE TOXICITY IN CLOSED ECOLOGICAL SYSTEM N64-24618 17-07

BIOINSTRUMENTATION FOR MONITORING STUDY IN HUMAN

PHYSIOLOGY IN CLOSED ECOLOGICAL SYSTEMS
N64-24622 17-15

DETECTION SYSTEM FOR MONITORING AIR FOR TOXIC COMPOUNDS IN CLOSED ECOLOGICAL SYSTEM
N64-24625 17-15

MEDICAL PROBLEMS OF CREW HEALTH IN CLOSED ECOLOGICAL SYSTEM
N64-24629 17-16

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON DIOXIDE
ANRL-TDR-64-35 N64-27432 19-16

GROWTH CHARACTERISTICS OF AUTOTROPHIC BACTERIA FOR BALANCE IN CLOSED ECOLOGICAL SYSTEM CONTAINING MAN
NASA-CR-58129 N64-27817 19-16

ORGANIZATION OF CLOSED ECOLOGICAL SYSTEMS FOR PROLONGED MANNED SPACE FLIGHT
NASA-TT-F-9131 N64-29730 21-16

CLOSED ECOLOGICAL SYSTEMS FOR WATER RECOVERY & WASTE UTILIZATION DURING MANNED SPACE FLIGHT
R63SD83 N64-33604 24-16

CLOSED LOOP SYSTEM
FLOW OSCILLATIONS IN CLOSED LOOP SYSTEM WITH TRANSPARENT, PARALLEL, VERTICAL, HEATED CHANNELS
MIT-8973-2 N64-13052 04-11

CLOSED LOOP MAGNETOHYDRODYNAMIC GENERATOR
ASD-TDR-63-4019 N64-14119 05-24

MAGNETOHYDRODYNAMIC GENERATOR & CLOSED LOOP SYSTEM TESTS
AD-428194 N64-20612 13-24

LONG LIFE CLOSED LOOP MAGNETOHYDRODYNAMIC APPARATUS
AD-432464 N64-21341 14-10

PERIPHERAL EQUIPMENT AND MEASURING INSTRUMENTS FOR CLOSED LOOP SYSTEM
QTPR-9 N64-29437 21-24

CLOSED LOOP FOR MAGNETOPLASMADYNAMIC POWER GENERATOR
N64-30429 22-10

MAGNETOPLASMADYNAMIC GENERATOR TEST LOOP AND ALUMINUM OXIDE DUCT
N64-30436 22-10

INSTRUMENTATION FOR PHYSICAL MEASUREMENTS IN MAGNETOPLASMADYNAMIC CLOSED LOOP
N64-30437 22-15

MATERIAL FAILURES IN ULTRAHIGH TEMPERATURE MAGNETOPLASMADYNAMIC LOOP
N64-30438 22-18

LABORATORY DEVICE FOR CLOSED AIR LOOP ANALYSIS OF CARBON DIOXIDE REMOVAL AGENTS
FDL-TDR-64-67, PT. I N64-31927 23-16

CLOSURE
CLOSURE TECHNIQUES FOR INFINITE SYSTEMS OF DIFFERENTIAL EQUATIONS
RM-3821-ARPA N64-13855 05-20

FORGING OF FRONT AND REAR CLOSURES FOR TITANIUM ROCKET MOTOR CASES
WAL-TR-766.2/1-14, VOL. I N64-20908 14-17

SYMMETRY OF ALGEBRAIC CLOSURE IN GRADUATED FIELDS OF HERONORPHIC FUNCTIONS
NRC-468 N64-21156 14-20

CLOSURES AND PENETRATIONS FOR PRESSURE VESSELS OF COMPOSITE CONSTRUCTION
DTMB-1732 N64-26066 18-11

CLOTHING
VENTILATION OF AIRCRAFT CREW FLIGHT CLOTHING - TEMPERATURE REGULATION
FTD-TT-63-774/1&2 N64-22180 15-16

TESTS OF ELECTRICALLY HEATED FLIGHT CLOTHING
FPRC/MEMO-200 N64-25844 18-16

SHADE STANDARDS AND TOLERANCES IN BLUE WOOL-POLYESTER CLOTH
SEG-TDR-64-41 N64-32118 23-17

CLOUD
SA CUMULUS CLOUD
SA FOG
SA NOCTILUCENT CLOUD
ATMOSPHERIC ELECTRIC MEASUREMENTS AT HIGH MOUNTAIN STATIONS - CLOUDS, PRECIPITATION, AND CHARGE
JPRS-21604 N64-10200 01-12

BRIGHTNESS OF DIFFUSING, CONTAMINANT GLOW CLOUDS IN UPPER ATMOSPHERE - CHEMILUMINESCENCE AND SOLAR RAY SCATTERING
HSA-84 N64-10223 01-12

RESEARCH ON CLOUD STRUCTURE - INTERNATIONAL QUIET SUN YEAR SCIENTIFIC TASK N64-10762 02-21

CLOUD LIQUID-WATER CONTENT BY MICROWAVE RADIOMETRY
N64-10917 02-21

MEASURING ALTITUDE OF LOWER EDGE OF CLOUDS USING REFLECTED LIGHT AND OPTICAL INSTRUMENTS
FTD-TT-63-779/1&2 N64-11170 02-21

SYNOPTIC INTERPRETATIONS OF CLOUD VORTEX PATTERNS OBSERVED BY METEOROLOGICAL SATELLITES
ARA-F-8243-2 N64-11744 03-21

HEIGHT OF CONDENSATION LEVEL - LOWER BOUNDARY OF CLOUDS N64-11846 03-21

DYNAMIC MODELS WITH CORIOLIS EFFECT TO EXPLAIN FORMATION OF SPIRAL CLOUD BANDS IN HURRICANES AND CYCLONES
GCA-TR-63-4-G N64-11945 03-21

METEOROLOGY & HYDROLOGY - CLOUD STRUCTURE & ATMOSPHERIC TURBULENCE
JPRS-20146 N64-12785 04-21

VARIATIONS IN CLOUD BASE HEIGHT OVER SHORT TIME PERIODS N64-12787 04-21

METEOROLOGICAL CONDITIONS OF FLIGHT IN UPPER HALF OF TROPOSPHERE NEAR CUMULONIMBUS CLOUDS
N64-12788 04-21

LIGHT IMPULSE LOCATOR AND TRIGONOMETRIC DEVICES FOR MEASURING HEIGHT OF CLOUD BASES
N64-12792 04-21

WEATHER CONTROL THROUGH ARTIFICIAL MODIFICATION OF CLOUDS AND FOG
T-R-401 N64-12834 04-21

TECHNIQUES FOR MODIFICATION OF CLOUDS AND FOGS & DISSIPATING THESE FORMATIONS
JPRS-22609 N64-13228 04-21

HAIL & CLOUD DYNAMICS
MW-36 N64-14194 06-21

MICROWAVE SCATTERING AND EXTINCTION PROPERTIES OF POLYDISPERSED CLOUD AND RAIN ELEMENTS
R-422-PR N64-14493 06-21

SELECTION OF GEOGRAPHICAL REFERENCE GRID FOR USE WITH NIMBUS CLOUD PICTURES
NASA-TN-D-2136 N64-15846 07-21

DEVICE FOR MEASURING WATER CONTENT OF CLOUDS AND RAIN
FTD-TT-63-621/1&2 N64-16380 08-21

INTERNATIONAL QUIET SUN YEAR /IQSY/ AND CLOUD YEAR PROGRAM PREPARATION & OCEANOGRAPHY - CONFERENCE RESULTS N64-16454 08-12

DIGITAL COMPUTER USED TO DETERMINE POSITION OF LUMINOUS VAPOR TRAIL OR CLOUD
AFCRL-64-225 N64-16565 08-21

DIGITAL COMPUTER METHOD OF LOCATING HIGH ALTITUDE VAPOR CLOUDS USING PHOTOGRAPHS N64-17004 09-20

CLOUD PRECIPITATION AND AIRCRAFT SMOKE TRAIL

JPRS-23407 N64-17339 09-21

RADAR METHOD OF DETERMINING PHASE STATE OF CLOUDS AND PRECIPITATION N64-17340 09-21

ABSOLUTE PHOTOMETRY OF NOCTILUCENT CLOUDS
AID-T-64-7 N64-17666 09-21

RADAR BACKSCATTERING OBSERVATION OF DISTORTION OF CUMULONIMBUS PRECIPITATION
AFCRL-64-249 N64-18355 10-08

MECHANISM OF HOOK ECHO CLOUD FORMATION - PRELIMINARY MESOSYNOPTIC ANALYSIS OF TORNADO CYCLONE OF MAY 26, 1963 N64-18392 10-21

PATTERN RECOGNITION RESEARCH FOR DEVELOPING MECHANICAL PROCEDURE FOR USING METEOROLOGICAL SATELLITE DATA
NASA-CR-53587 N64-18435 10-12

INFRARED SPECTRAL PROPERTIES OF HIGH ALTITUDE CLOUDS
AD-428979 N64-18781 11-21

TIROS I OBSERVATION OF TIME VARIATIONS IN SUBTROPICAL JET STREAM AND ASSOCIATED CLOUD PATTERNS
AFCRL-64-238 N64-18898 11-21

METEOROLOGY - DETERMINATION OF SPEEDS OF VERTICAL AIR CURRENTS IN CONVECTIVE CLOUDS WITH HELP OF WEATHER RADAR
SCI. REPT.-63-31T N64-19014 11-21

TURBULENCE IN METEOR DUST CLOUDS AROUND SUN - FORMATION OF PLANETS N64-19453 12-05

DIFFUSION OF MIXTURE IN ATMOSPHERE IN PRESENCE OF CLOUDS AND PRECIPITATION N64-20210 13-21

ELECTROSTATIC EFFECTS ON CLOUD DROPLET TRAJECTORIES, COALESCENCE, AND CHARGING
P-2885 N64-21300 14-21

SATELLITE PHOTOGRAPHS OF CLEAR AIR TURBULENCE AND CLOUD PATTERNS
AD-432468 N64-21308 14-21

METEOROLOGICAL SATELLITES AND INSTRUMENTATION - EARTH RADIATION FLUX, RADIATION BALANCE, AND CLOUD FORMATION STUDIES
NASA-TT-F-177 N64-21431 14-32

OPTIMAL DESIGN FOR SUPERCOOLED CLOUD DISPERSAL EQUIPMENT AND TECHNIQUES
TO-B-64-32 N64-21712 15-21

TIROS SATELLITE OBSERVATION OF CLOUD PATTERNS
REPT.-24 N64-23166 16-21

STELLAR CLOUD AND MASS SCATTERING PROPERTIES N64-23183 16-29

ATMOSPHERE MODEL - WATER VAPOR, CLOUDS, & PRECIPITATION DISTRIBUTIONS
REPT.-7048-105 N64-24087 16-12

CLOUD OCCURRENCE NEAR MESOPAUSE - THEORETICALLY PERMISSIBLE ALTITUDES & SEASONS
P-2829 N64-24150 16-12

COSMIC RAY VARIATIONS CAUSED BY EXPANDING TURBULENT MAGNETIZED CLOUD N64-24433 17-28

CLIMATOLOGY - RELATION BETWEEN ATMOSPHERIC RADIATION AND CLOUDINESS N64-24789 17-21

EQUATIONS FOR CALCULATION OF TOTAL RADIATION VS TOTAL CLOUDINESS N64-24790 17-21

TOTAL ATMOSPHERIC RADIATION CALCULATIONS FROM CLOUD DATA USING ACTINOMETRIC INSTRUMENTS N64-24791 17-21

ELECTROMAGNETIC NOISE PULSE MEASUREMENTS OF VERTICALLY CONDUCTING CLOUD DEVELOPMENT
AFCRL-64-333 N64-26949 18-21

EFFECT OF CLOUDS ON ULTRAVIOLET SKY RADIATION
AFCRL-64-565 N64-27434 19-21

FORMATION OF CUMULONIMBUS INCUS ON CLOUD DECK N64-28047 20-21

ACCURACY OF RADAR MEASUREMENTS OF CLOUD ALTITUDES
FTD-TT-63-539/1&2 N64-28468 20-21

STATISTICAL METHODS FOR STUDY OF RANDOM RADIATION FIELDS AND ASSOCIATED CLOUD FORMATIONS N64-29082 21-21

DIAGNOSTIC-CYCLE ROUTINE FOR METEOROLOGICAL SATELLITE OBSERVATIONS - CHANGES IN CLOUDINESS
AD-602107 N64-29372 21-21

TEMPERATURE & SPECTRAL EMISSIVITY CHARACTERISTICS OF CLOUD TOPS AND EARTH SURFACE
NASA-CR-58346 N64-29504 21-21

CLOUD AND PRECIPITATION FORMATION AND WEATHER MODIFICATION
TR-177 N64-29899 21-21

DROP SIZE DISTRIBUTION & LIQUID WATER CONTENT IN NATURAL CLOUDS BY IMPACT ON CHARGED METAL TARGETS PRODUCING ELECTRIC PULSES
AFCRL-64-621 N64-30005 21-21

CONVERSION OF FIREFLY PROJECT RADAR DATA - WAVE SCATTERING FROM IONIZED ARTIFICIAL CLOUDS N64-31382 23-12

FIREFLY PROJECT IONOSONDE MEASUREMENTS OF ELECTRON DENSITY IN E AND F LAYERS FROM EXPLOSIONS AND CHEMICAL CLOUDS N64-31383 23-12

IONOSPHERIC DRIFT FROM MOTION OF FIREFLY PROJECT ARTIFICIAL CLOUDS N64-31384 23-12

INFRARED RADIOMETER MEASUREMENTS OF FIREFLY PROJECT ARTIFICIAL CLOUDS N64-31386 23-12

LOCAL DEPLETION OF IONOSPHERIC ELECTRON DENSITY BY FIREFLY PROJECT CHEMICAL CLOUDS WITH HIGH FREE ELECTRON ATTACHMENT COEFFICIENTS N64-31387 23-12

CHEMILUMINESCENCE OF TRIMETHYL ALUMINUM ARTIFICIAL CLOUD IN UPPER ATMOSPHERE - FIREFLY PROJECT N64-31392 23-12

UPPER ATMOSPHERE RADIO PROPAGATION BY FIREFLY PROJECT EXPLOSIVE PLASMA CLOUDS N64-31398 23-12

SOLAR CORPUSCULAR STREAMS OF PLASMA CLUSTERS WITH FORCE FREE MAGNETIC FIELD IN GEOMAGNETIC STORMS
NASA-TT-F-8967 N64-31560 23-20

BIBLIOGRAPHY ON NOCTILUCENT AND NACREOUS CLOUDS, CIRRIFORM CLOUDS, AND CONDENSATION TRAILS
ERDA-181 N64-32034 23-21

OPTICAL INSTRUMENT FOR MEASURING CLOUD AND FOG MICROSTRUCTURE N64-32338 23-15

CLOUD PATTERNS, CLOUD DISTRIBUTION, AND VORTICES OVER ATLANTIC OCEAN SHOWN BY PHOTOGRAPHS FROM TIROS SATELLITES
ARA-F-9252-2 N64-32815 24-21

STATISTICAL FORECASTING OF LOW AND TOTAL CLOUD AMOUNTS FROM COMBINED INITIAL AND PROGNOSTIC DATA
ESD-TDR-64-62 N64-33419 24-21

CLOUD COVER
FAIR WEATHER EXPECTATION BASED ON CLOUD COVER STUDIES
AFCRL-63-720 N64-10540 01-13

DAYTIME RADIATION DATA FROM TIROS III OVER CLOUD REGIONS
AFCRL-63-860 N64-10541 01-13

OBSERVATION OF CLOUDINESS & PRECIPITATION TO ESTIMATE CLIMATIC RESOURCES FOR ARTIFICIAL

INCREASE OF PRECIPITATION N64-11844 03-21

TIME CHANGE IN CLOUD COVER OBSERVED BY TIROS III SATELLITE
AFCRL-64-235 N64-18895 11-21

DENSITY DISCRIMINATION - SELECTION OF PARAMETERS FOR DETERMINING PERCENTAGE OF CLOUD COVER RECORDED ON AERIAL RECONNAISSANCE FILM
RADC-TDR-64-37 N64-20026 13-09

EFFECT OF CLOUD COVER ON GREENHOUSE MODEL OF VENUS ATMOSPHERE N64-23895 16-29

SURFACE WIND SPEED, TOTAL OPAQUE CLOUD COVER, AND MAXIMUM WIND SPEED ALOFT AT CAPE KENNEDY, FLORIDA
NASA-TM-X-53037 N64-23999 16-12

METHODS OF CLOUD DISSIPATION OVER LARGE AREAS
E-T-R-64-17 N64-25322 17-21

CORRELATION OF VERTICAL VELOCITY OF AIR AND FORMATION OF CLOUD COVER N64-26435 18-21

THEORETICAL AND OBSERVATIONAL STUDIES OF VORTEX CLOUD PATTERNS
GCA-TR-64-2-G N64-26517 18-21

VORTEX STRUCTURE OF CLOUD COVER ACCORDING TO WEATHER SATELLITE DATA
NASA-TT-F-206 N64-26783 18-21

DAILY VARIATION IN MEAN CLOUDINESS OVER USSR
FTD-TT-63-1205/1&2&4 N64-27329 19-21

METEOROLOGIC SATELLITE OBSERVATION OF SOUTHERN HEMISPHERE CLOUD PATTERNS - ANTARCTICA RESUPPLY OPERATIONS
ARA-F-9228-2 N64-30566 22-21

CORRELATION OF EARTHSHINE BRIGHTNESS WITH WORLDWIDE WEATHER FOR 1958
SAO SPECIAL REPT.-162 N64-30657 22-12

TIROS III MEASUREMENT OF CLOUD HEIGHTS AND NIGHTTIME CLOUD COVER FROM RADIATION DATA
NASA-RP-340 N64-31217 22-21

CLOUD PHOTOGRAPH
PRECISE RECTIFICATION OF TIROS SATELLITE CLOUD PHOTOGRAPHS
MSL-R-14 N64-10011 01-21

TIROS SATELLITE CAMERA TO GIVE INSTANTANEOUS PHOTOGRAPHS OF CLOUD PATTERNS N64-11778 03-32

ERROR ANALYSIS OF SATELLITE ATTITUDE FOR GEOGRAPHICAL CORRECTION OF NIMBUS CLOUD PICTURES
NASA-TN-D-2137 N64-12878 04-21

MAPS AND TABULATED LISTINGS OF INFORMATION FROM PICTURES OBTAINED BY TIROS V AND VI
N64-12900 04-21

SELECTION OF GEOGRAPHICAL REFERENCE GRID FOR USE WITH NIMBUS CLOUD PICTURES
NASA-TN-D-2136 N64-15846 07-21

TIROS I METEOROLOGICAL SATELLITE SYSTEM - DESIGN, DEVELOPMENT, OPERATION, ENGINEERING EVALUATION, AND METEOROLOGICAL USES OF TELEVISION DATA
NASA-TR-R-131 N64-17906 10-21

TIROS I CLOUD PHOTOGRAPHY - PATTERN REVEALING CAPABILITY, PICTURE QUALITY, AND LOCATION DIFFICULTIES N64-17908 10-32

TIROS I PHOTOGRAPHS OF CLOUD SYSTEM OF CYCLONE OVER ATLANTIC OCEAN RELATED TO STANDARD METEOROLOGICAL INFORMATION N64-17909 10-21

TIROS I PHOTOGRAPHS OF CLOUD STRUCTURE OF CUT-OFF CYCLONE OVER EASTERN PACIFIC RELATED TO STANDARD METEOROLOGICAL INFORMATION N64-17910 10-21

TIROS I PHOTOGRAPHS OF CLOUD STRUCTURE OF OCCLUDED CYCLONE OVER GULF OF ALASKA RELATED TO STANDARD METEOROLOGICAL OBSERVATIONS
N64-17911 10-21

TIROS I PHOTOGRAPHS OF CLOUD AREA OF APRIL 1, 1960 MIDWEST STORM RELATED TO STANDARD METEOROLOGICAL MEASUREMENTS N64-17912 10-21

TIROS I CLOUD PHOTOGRAPHS OF SUBTROPICAL CONVERGENCE BAND COMPLEMENTS SURFACE METEOROLOGICAL DATA ON QUASI-STATIONARY FRONT
N64-17913 10-21

TIROS I NEPHANALYSIS COMPARED WITH CONVENTIONAL WEATHER ANALYSIS FOR FAMILY OF PACIFIC FRONTAL STORMS N64-17914 10-21

TIROS I PHOTOGRAPHY OF CELLULAR CLOUD PATTERN RELATED TO CONVENTIONAL METEOROLOGICAL ANALYSES, PHYSICAL NATURE OF CELLULAR CONVECTION
N64-17915 10-21

TIROS I NARROW-ANGLE CAMERA STUDY OF ORIENTATION, SPACING, AND LENGTH OF CLOUD STREETS
N64-17916 10-21

TORNADO-PRODUCING CLOUD MASS SEEN FROM TIROS I CORRELATED WITH SURFACE METEOROLOGICAL REPORTS
N64-17917 10-21

TIROS I PICTURES OF MOUNTAIN PHENOMENA, ICE, SUN GLITTER, GULF STREAM, AND SOUTHERN HEMISPHERE CLOUDS N64-17918 10-21

PHOTOGRAPHS OF CLOUD DISTRIBUTION BY TIROS SATELLITES - CLIMATOLOGY
AFCRL-64-229 N64-18180 10-21

PHOTOGRAPHS OF CLOUD DISTRIBUTION BY TIROS SATELLITES - CLIMATOLOGY
AFCRL-64-230 N64-18181 10-21

RECOGNITION OF CLOUD PATTERN FROM FILMS TAKEN BY TIROS SATELLITE
NASA-CR-53778 N64-19582 12-21

TIROS SATELLITE CLOUD PHOTOGRAPHS AND NEPHANALYSES IN NUMERICAL WEATHER FORECASTING
MSL-23 N64-19967 12-21

CLOUD PATTERNS, TROPICAL CYCLONE, AND DIURNAL VARIATION STUDIES FROM TIROS I SATELLITE PICTURES
AFCRL-64-327 N64-25375 17-21

COMPUTER PROCESSING OF DIGITIZED SATELLITE VIDICON CLOUD PICTURES
MSL-26 N64-26492 18-32

PHOTOGRAPHIC INSTRUMENTATION FOR TRIANGULATION STUDIES OF LUMINOUS CLOUDS IN UPPER ATMOSPHERE
N64-30794 22-15

STEREOPHOTOGRAPHS OF MIDDLE CLOUD WAVE PATTERNS - MASS VELOCITY, PHASE VELOCITY, AND WIND SHEAR
AFCRL-64-465 N64-31372 23-21

CLOUD PHYSICS
GROUND RADIOMETER FOR MILLIMETER WAVE RESEARCH IN CLOUD PHYSICS N64-10928 02-21

SEVERE STORM CLOUD DYNAMICS N64-14198 06-21

CIRCULATION IN NUCLEAR CLOUDS
TO-B-63-102A N64-14765 06-21

TWO-SPHERE BOUNDARY-VALUE PROBLEM FOR EFFECT OF ELECTROSTATIC FIELDS ON DROPLET PAIRS, AS IN WARM CLOUD PRECIPITATION - FORCES AND FIELD STRENGTH
RM-3860-PR N64-15380 07-23

ORIGIN, DEVELOPMENT, AND STRUCTURE OF CLOUDS
OTS-63-11141 N64-15930 07-21

CALCULATION OF REFLECTION COEFFICIENT OF CLOUDS
LAS-TR-199-50 N64-15996 07-05

FORBIDDEN REGIONS FOR FORMATION OF CLOUDS IN PLANETARY ATMOSPHERE
RM-4084-PR N64-20166 13-21

METEOROLOGICAL INSTRUMENTATION, WEATHER AND CLOUD PHYSICS, AND RADAR WAVE PROPAGATION STUDIES
AFCRL-64-25 N64-25405 17-23

CONVECTIVE STORMS - CLOUD PHYSICS, DYNAMICS, AND RELATED CLOUD MODIFICATION
MRI63-IR-87 N64-31197 22-21

CLOUD SEEDING
WEATHER CONTROL VIA CLOUD SEEDING
FTD-TT-63-633/1&2&4 N64-11166 02-21

SEEDING OF SUPERCOOLED CLOUDS AND FOG OVER LARGE AREAS USING SOLID CARBON DIOXIDE
N64-11167 02-21

FORECASTING PRECIPITATION, CLOUD SEEDING, AND HEIGHT OF LOWER BOUNDARY OF CLOUDS
JPRS-18696 N64-11836 03-21

INFLUENCE OF AQUEOUS SOLUTIONS OF LEAD IODIDE ON SUPERCOOLED CLOUDS AND FOGS N64-11839 03-21

PRECIPITATION AND CLOUD DISPERSAL BY ACTION OF AQUEOUS SOLUTIONS OF LEAD IODIDE ON SUPERCOOLED CLOUDS N64-11840 03-21

WEATHER CONTROL THROUGH ARTIFICIAL MODIFICATION OF CLOUDS AND FOG
T-R-401 N64-12834 04-21

HAIL PREVENTION BY CLOUD SEEDING
N64-20432 13-21

ATMOSPHERIC CONDITION EFFECT ON PRECIPITATION FROM CLOUD SEEDING WITH HYGROSCOPIC AND ICE NUCLEI
N64-20648 13-21

ARTIFICIAL MODIFICATION OF CLOUDS AND FOG
JPRS-26561 N64-30660 22-21

SEEDING CLOUDS WITH SILVER IODIDE SMOKE RELEASED FROM AIRCRAFT
RPR-145 N64-32309 23-21

INCREASED PRECIPITATION BY CLOUD SEEDING WITH SILVER IODIDE SMOKE FROM AIRCRAFT
RPL-161 N64-32310 23-21

INCREASED PRECIPITATION BY CLOUD SEEDING WITH SILVER IODIDE SMOKE FROM AIRCRAFT
RPL-163 N64-32311 23-21

CLOUD SEEDING EXPERIMENT IN AUSTRALIA
N64-32791 24-21

CLUSTER
CONDITIONS OF DISLOCATION PINNING IN CLUSTERS WITH IMPURE ATOMS N64-10735 02-25

ELECTROMAGNETIC INTERACTION OF ELECTRON CLUSTERS DURING COHERENT RADIATION IN SYNCHROTRON
FTD-MT-62-1747/1&2&4 N64-21925 15-23

EFFECT OF ELASTIC INTERACTION ON KINETICS OF CRYSTAL CLUSTER GROWTH
ARDO-3870-1 N64-23951 16-18

THRUST DIRECTIONAL CONTROL OF CLUSTERED NOZZLES
RN-62-24 N64-27214 19-27

OPERATION OF SKIMMER NOZZLE AND USE AS COLLOIDAL ION SOURCE AND FOR SYNTHESIS OF CHEMICAL SUBSTANCES, CLUSTER IONS, OR CHARGED BODIES
TN-R-90 N64-30760 22-27

COALESCENCE
ELECTROSTATIC EFFECTS ON CLOUD DROPLET TRAJECTORIES, COALESCENCE, AND CHARGING
P-2885 N64-21300 14-21

WATER DROP COALESCENCE - GAS-LIQUID INTERACTION & SURFACE INTERACTION
REPT.-0817-01/01/3P N64-33762 24-11

COANDA EFFECT
COANDA FLOW OF TWO-DIMENSIONAL WALL JET ON OUTSIDE OF CIRCULAR CYLINDER
REPT.-63-11 N64-11091 02-11

POTENTIAL THEORY FOR DEFLECTED JET FLOW - COANDA EFFECT
NLR-TN-G-31 N64-31711 23-11

COATING
SA ELECTROPLATING
SA FILM
SA FLAME SPRAYING
SA GLAZE
SA PLATING
SA PROTECTIVE COATING
SA SURFACE COATING
LIGHT SCATTERING IN HIGHLY REFLECTING PIGMENTED COATINGS - SILVER HALIDE CRYSTALS
NASA-CR-52187 N64-10089 01-19

DEFECTS IN SILICIDE COATING ON MOLYBDENUM AS FUNCTION OF STRESS CHANGE WITH TEMPERATURE VARIATION
JPRS-21758 N64-10122 01-33

EFFECTS OF TWO NICKEL ALLOY BRAZE COATINGS, HEAT TREATMENTS, AND PROCESSING VARIABLES ON RUPTURE STRENGTH OF SHEET METALS
NASA-TN-D-1880 N64-10334 01-18

STRESS-CORROSION CRACKING OF TITANIUM ALLOY AND NICKEL MARAGING STEELS WITH COATINGS EVALUATION
L0414-01-22 N64-10543 01-33

MULTICHAMBER VACUUM CALORIMETER FOR MEASUREMENT OF HEMISPHERICAL EMITTANCE OF HIGH TEMPERATURE RADIATOR COATINGS N64-10957 02-15

HEMISPHERICAL EMITTANCE OF STRUCTURAL MATERIALS & COATINGS UNDER SIMULATED SPACECRAFT CONDITIONS OVER WIDE TEMPERATURE RANGE N64-10962 02-13

THERMAL RADIATION PROPERTIES FOR SOLIDS & COATINGS AT HIGH TEMPERATURES N64-10963 02-23

EMITTANCE MEASUREMENTS OF CERAMIC COATINGS UP TO 2900 DEG KELVIN N64-10967 02-13

HEAT TREATMENT OF ELECTRODEPOSITED CHROMIUM BASE CERMET COATINGS FOR SOLID PROPELLANT ROCKET NOZZLE
AD-407973 N64-11027 02-26

HEAT RESISTANT ZINC AND CADMIUM CONVERSION COATINGS FOR STEEL
RIA-TR-63-3345 N64-11536 03-18

SURFACE PROTECTION FOR SILICON DEVICES
AFCRL-63-333 N64-11933 03-25

EMITTANCE OF CALORIMETER DISC SURFACES COATED WITH PLATINUM BLACK UNDER CONTROL TEMPERATURE CYCLING
NASA-CR-55073 N64-12156 03-13

COATED REFRACTORY METAL FOILS
RDR-1325-5 N64-12362 03-18

EVALUATION OF DIFFUSED TRANSISTOR, ALUMINUM WIRE, AND DOUBLE-COATING AND EXPOSURE OF PHOTORESISTANT MATERIAL N64-13231 04-17

COATED REFRACTORY METAL ALLOY FOILS FOR AEROSPACE APPLICATIONS
RDR-1325-6 N64-15597 07-18

THIN PLASTIC COATING FOR METALLOGRAPHIC PLUTONIUM SPECIMENS TO RETARD OXIDATION AND CONTAIN RADIOACTIVE CONTAMINATION
HW-79845 N64-15836 07-21

PERFORMANCE CHARACTERISTICS OF UNCOATED AND PLATINIZED IONIC MEMBRANE FUEL CELLS
NASA-CR-55694 N64-15871 07-09

SOLAR CONCENTRATOR DESIGN STUDY, PLATING AND COATING STUDIES
NASA-CR-55781 N64-16334 08-03

SOLAR CONCENTRATOR DESIGN STUDY, PLATING AND COATING STUDIES
NASA-CR-55782 N64-16335 08-03

SURFACE COATING OF METAL OBJECTS BY VIBRATING-ARC WELDING
FTD-TT-62-1250/1&2 N64-16343 08-15

ENVIRONMENTAL TESTING OF RAIN REPELLANT CHARACTERISTICS OF WINDSHIELD COATING

FGT-3062, ADD. 1 N64-16633 08-19

DEVELOPMENT OF SPACE-STABLE THERMAL CONTROL COATINGS WITH LOW SOLAR ABSORPTANCE-EMITTANCE RATIOS
NASA-CR-55826 N64-16715 08-19

STABILITY OF WHITE SURFACE COATINGS FOR THERMO-REGULATION IN SPACE ENVIRONMENT
NASA-CR-53086 N64-16741 08-19

LIGHT SCATTERING IN PIGMENTED SURFACE COATING WITH HIGH REFLECTION COEFFICIENT
NASA-CR-53118 N64-16757 08-23

METALLURGICAL EXAMINATION OF COATED TITANIUM BOLT AND SHEET
4466 N64-16784 08-18

BORON CARBIDE FOR USE WITH CONTROL ROD CLADDING MATERIAL
NAA-SR-8702 N64-16885 08-18

EVALUATION OF WELDMENTS FABRICATED FROM MATERIAL PRECOATED WITH RUST PREVENTATIVE
4462 N64-17129 09-19

TEMPERATURE EFFECT ON VISCOSITY AND FILM THICKNESS OF EC776SR DIP APPLIED TO ALUMINUM PANELS
4486 N64-17144 09-19

PRIMER SURFACE COATING EVALUATION
4488 N64-17146 09-19

CERAMIC COATINGS ON 321 STAINLESS STEEL
4489 N64-17147 09-79

EVALUATION OF COATING FOR NIOBIUM AND MOLYBDENUM ALLOY FOILS
RTD-TDR-63-4006, PT. 1 N64-17515 09-18

HIGH TEMPERATURE AND HIGH EMITTANCE COATINGS
NASA-CR-53234 N64-17588 09-19

THERMOCONDUCTIVITY OF SILICON BASED WITH POTASSIUM TITANATE FIBERS - COATING MATERIAL
NASA-CR-56007 N64-17688 09-13

MINIMIZING OPTICAL DISTORTIONS OF GEL COATS USED IN FABRICATION OF RIGIDIZED INFLATABLE SOLAR ENERGY CONCENTRATORS
NASA-CR-53356 N64-17823 09-06

POLYSULFIDE GEL COATING MATERIALS FOR RIGID SOLAR ENERGY COLLECTORS
NASA-CR-53355 N64-18105 10-06

VARIATION IN COATED-CYLINDER BALLISTIC-COEFFICIENT WITH DECREASING COATING THICKNESS
AD-296790 N64-18188 10-02

HYDROPHOBIC AND OLEOPHOBIC FLUOROPOLYMER COATINGS WITH LOW SURFACE ENERGY - PROPERTIES AND APPLICATIONS
NRL-6039 N64-18368 10-19

SURFACE DIFFUSION SATURATION OF METALS AND REFRACTORY SURFACE COATINGS
JPRS-24165 N64-18401 10-18

OXIDATION RESISTANT COATINGS FOR REFRACTORY METALS
AD-437376 N64-19164 11-19

CERAMIC COATINGS FOR INSULATED WIRES EXPOSED TO ALKALI METAL VAPORS - CORROSION PREVENTION
APL-TDR-64-42 N64-19736 12-19

THERMAL CONTROL COATINGS WITH VARIABLE REFLECTIVITIES
REPT.-63-114CX N64-20575 13-13

TENSILE STRENGTH TESTING OF COATED NIOBIUM ALLOY SHEET OVER TEMPERATURE RANGE FROM ROOM TEMPERATURE TO 2600 DEG F
TM-3866-67 N64-21382 14-18

MEASUREMENTS OF THERMAL RADIATION PARAMETERS OF SURFACE COATING MATERIALS
AIAA PAPER-64-256 N64-21542 15-13

WEAR RESISTANCE OF ENAMEL COATINGS WITH REFERENCE TO LIFE OF MACHINE PART
FTD-TT-62-1659/1&2&4 N64-21922 15-19

DESIGN REQUIREMENT FOR COATED REFRACTORY ALLOYS FOR DYNA-SOAR SPACE GLIDER
D2-81113-1 N64-22431 15-18

NONDESTRUCTIVE TESTING OF CERAMIC AND INTERMETALLIC PROTECTIVE COATINGS FOR REFRACTORY METALS
WADD-TR-61-91 , PT. IV N64-22562 15-17

MECHANICAL PROPERTIES OF SINTERED BERYLLIUM WITH LOW EMISSIVITY GOLD COATING
A738 N64-22583 15-18

INFRARED RADIATION PROPERTIES OF FLAME SPRAYED CERAMIC COATINGS, OXIDES OF ALUMINUM, CHROMIUM, AND ZIRCONIUM, AND SOLID BORON NITRIDE
AMRA-TR-64-03 N64-22710 15-25

PLASTIC COATINGS ON FLUIDIZED BED
PLASTEC-13 N64-23136 16-19

GAS FLOW CALCULATIONS FOR FLUIDIZED-BED COATING OF NUCLEAR FUEL PARTICLES
ORNL-3639 N64-23262 16-23

ETHYLSILICATE COVERING FOR INVESTMENT CASTING
N64-23508 16-19

FLEXIBLE FIBROUS MATERIALS AND COATINGS FOR EXPANDABLE REENTRY SYSTEMS N64-23704 16-18

RESISTANCE OF VITREOUS ENAMELS /CERAMIC COATINGS/ TO CORROSION AND LEACHING BY HYDROCHLORIC ACID
N64-24273 17-19

REFRACTORY MATERIALS FOR COATINGS AND FASTENERS AND COATED FASTENER OF TITANIUM-ZIRCONIUM-MOLYBDENUM SYSTEM ALLOY N64-25045 17-17

DETERMINATION OF STRESS AND DEFORMATION IN FLEXIBLE PLATES AND SHELLS USING PHOTOELASTIC COATINGS
NASA-TT-F-220 N64-25055 17-33

CONVERSION COATINGS FOR ALUMINUM ALLOYS - ANNOTATED BIBLIOGRAPHY
NASA-CR-56317 N64-25766 17-18

FUSED FLUORIDE COATINGS AS SOLID LUBRICANTS IN LIQUID SODIUM, HYDROGEN, VACUUM, AND AIR
NASA-TN-D-2348 N64-26414 18-17

COATED NIOBIUM ALLOYS
ER-5885 N64-26527 18-18

EMISSIVITY OF COATINGS SUBJECTED TO HIGH VACUUM AND HIGH TEMPERATURE ENVIRONMENTS
NASA-CR-58054 N64-26808 18-25

EMITTANCE MEASUREMENT OF DISILICIDE-TYPE COATINGS
N64-27021 19-19

DIFFUSION STUDIES OF COMMERCIALLY AVAILABLE COATING ON MOLYBDENUM ALLOY SHEET AT 2500 DEG F
N64-27022 19-19

FOIL-GAUGE COATED METAL FOR HEAT SHIELD USE
N64-27023 19-18

HEAT SHIELD BODY PANEL OF NIOBIUM ALLOY SUBJECTED TO PFAUDLER COATING CYCLE N64-27024 19-18

FLAME AND PLASMA SPRAYING METHODS FOR COATING REFRACTORY METAL SHEET N64-27027 19-19

EVALUATION PROCEDURES FOR COATED REFRACTORY METAL SHEET N64-27028 19-18

COATED REFRACTORY ALLOYS FOR X-20 AIRCRAFT
N64-27029 19-19

ENVIRONMENTAL TESTING OF VIBRATION DAMPING PROPERTIES OF PLASTICIZED, GRAPHITE FILLED VINYL CHLORIDE & ACETATE COPOLYMER COATED STAINLESS STEEL

REPT.-94-43 N64-27186 19-19

USE OF TEMPERATURE-SENSITIVE COATINGS TO OBTAIN QUANTITATIVE AERODYNAMIC HEAT TRANSFER DATA
NASA-CR-278 N64-27356 19-13

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - COATINGS
RSIC-150, VOL. I, APPEND. C N64-27482 19-19

BERYLLIUM - SURFACE TREATMENT AND COATINGS
BBC-TR-329 N64-28000 20-18

FUEL ELEMENT FABRICATION - FISSIONABLE MATERIAL PARTICLES VAPOR-COATED WITH ALUMINUM OR BERYLLIUM OXIDE AND DISPERSED IN CERAMIC MATRIX
BMI-1675 N64-28124 20-18

GAP CURRENTS LEADING TO ELECTRIC BREAKDOWN BETWEEN CLEAN AND CESIUM COATED TUNGSTEN ELECTRODES
AIAA PAPER-64-694 N64-28366 20-09

DUCTILE COATING FOR OXIDATIVE PROTECTION OF NIOBIUM AND MOLYBDENUM ALLOYS
BPR-5 N64-28611 20-18

ABSORPTANCE AND EMITTANCE CHARACTERISTICS OF AMORPHOUS PHOSPHATE COATINGS APPLIED TO ALUMINUM FOIL SUBSTRATE - THERMAL CONTROL OF ECHO II SATELLITE
NASA-RP-303 N64-28752 20-19

DIELECTRIC COATINGS FOR ELECTRIC CONDUCTORS FOR USE AT CRYGENIC TEMPERATURES
NASA-CR-58502 N64-28958 20-17

THERMAL AGING AND MOISTURE EXPOSURE EFFECTS ON DIELECTRIC COATINGS OF ELECTRIC CONDUCTORS - FLEXIBILITY TESTS AT CRYOGENIC TEMPERATURES
NASA-CR-58539 N64-28962 20-17

ANTIREFLECTION COATINGS AND COVER GLASSES FOR IMPROVED SILICON SOLAR CELL PERFORMANCE
N64-29169 21-06

PHYSICAL PROPERTIES OF AIRCRAFT COATINGS AND PAINTS
NAEC-AML-1965 N64-29230 21-17

PHOSPHATE COATINGS ON STEEL AS PAINT UNDERCOATS OR PRIMERS
RIA-TR-63-3893 N64-29244 21-17

SPACE-STABLE THERMAL CONTROL COATINGS WITH LOW SOLAR ABSORPTANCE-EMITTANCE RATIOS
NASA-CR-58706 N64-29507 21-19

LOW TEMPERATURE COATINGS FOR ELECTRICAL CONDUCTORS - ROUND WIRE AND RIBBON CABLES
NASA-CR-58573 N64-29565 21-17

COEFFICIENTS OF FRICTION FOR PHOSPHATE COATINGS ON WEAPON COMPONENTS
SA-TR-18-1084 N64-29793 21-17

OPTIMIZATION OF DIFFUSION COATING PROCESS FOR NIOBIUM BASE ALLOY
ML-TDR-64-71 N64-29851 21-17

SURFACE COATINGS FOR SATELLITE THERMOREGULATION
AD-602894 N64-30474 22-17

THERMAL CONTROL COATINGS FOR SPACE ENVIRONMENT
NASA-CR-58814 N64-30524 22-17

VAPOR-PLATING OF TUNGSTEN COATINGS FOR ROCKETS BY HYDROGEN REDUCTION
RR-TR-64-6 N64-30888 22-18

HIGH TEMPERATURE RESISTANT METAL REINFORCED REFRACTORY CERAMIC COATING FOR INSULATION OF SUBSTRUCTURES
ML-TDR-64-81 N64-30928 22-17

BEHAVIOR OF THIN CESIUM LAYERS ON REFRACTORY METAL SUBSTRATES FOR STUDY OF VOLTAGE BREAKDOWN ACROSS VACUUM GAPS BETWEEN ALKALI-COATED ELECTRODES
NASA-CR-54106 N64-31012 22-25

LITHIUM FLUORIDE, ZINC TELLURIDE, & LEAD CHLORIDE INFRARED COATINGS
QR-2 N64-31189 22-23

LITHIUM DEUTERIDE-COATED LITHIUM WIRE
RFP-428 N64-31328 22-17

PLASTIC COATED ROLLED ALUMINUM FOIL CAPACITOR
QPR-4 N64-32374 23-17

VAPOR DEPOSITION OF TUNGSTEN COATING ON GRAPHITE- AND RHENIUM-LINED GRAPHITE ROCKET NOZZLES
BM-RI-6464 N64-32418 23-17

THERMAL SHOCK CRACKING OF GLASS DIODES ON CIRCUIT BOARDS DUE TO CONTRACTION AND EXPANSION OF CONFORMAL COATINGS
RG-TN-63-6 N64-32421 23-09

EVALUATION OF COATING MATERIALS FOR FUEL SYSTEMS BY EXPOSURE TO MICROORGANISM-INOCULATED FUEL-WATER SYSTEM
QR-5 N64-32451 23-19

BERYLLIUM COATED PLASTIC FILMS AS X-RAY SENSORY WINDOWS ON TANDEM DETECTION SATELLITES
MLM-1194 N64-32880 24-17

LIGHT SCATTERING IN HIGHLY REFLECTING PIGMENTED COATINGS - OPTICAL PROPERTIES OF SILVER BROMIDE SUSPENSIONS IN THIN FILMS
NASA-CR-59144 N64-33164 24-23

COAXIAL ACCELERATOR
OPERATION OF COAXIAL PLASMA ACCELERATOR WITH LARGE RATIO OF OUTER TO INNER CONDUCTOR RADIUS
SIT-88 N64-11448 03-24

THERMIONIC CONVERTER FOR STEADY STATE ELECTROMAGNETIC COAXIAL PLASMA ACCELERATOR
LAMS-3041 N64-19304 12-24

COAXIAL HALL-CURRENT PLASMA ACCELERATOR WITH LOW MASS FLOW RATE
AIAA PAPER-64-700 N64-28063 20-24

ENERGY MEASUREMENT IN COAXIAL PLASMA GUN
AIAA PAPER-64-704 N64-28369 20-24

EXHAUST MEASUREMENTS ON PLASMA FROM PULSED COAXIAL GUN INTENDED FOR SPACE PROPULSION
AIAA PAPER-64-705 N64-28370 20-24

COAXIAL PLASMA GUN WITH STORAGE CAPACITOR EXHIBITING PULSE LINE BEHAVIOR FOR SPACE PROPULSION
NASA-CR-54149 N64-29222 21-27

COAXIAL CABLE
MEASUREMENT OF TRANSIENT RADIATION EFFECTS ON CAPACITORS, RESISTORS, CONNECTORS, AND COAXIAL CABLES N64-19034 11-23

ELECTROMAGNETIC COUPLING BETWEEN SINGLE-WIRE, TWO-WIRE, COAXIAL, AND SHIELDED TWISTED-PAIR CABLES N64-22817 16-09

CABLE IRRADIATION TESTS FOR NASA RIFT PROGRAM
NASA-CR-56779 N64-29558 21-27

COAXIAL TRANSMISSION
WAVE PROPAGATION AND RADIO FREQUENCY MODULATION BY COAXIAL GLOW DISCHARGE AND PLASMA CYCLOTRON RESONANCE ISOLATOR
REPT.-4915-1-F N64-21087 14-24

HOLLOW ELECTRON BEAM, DISC-LOADED COAXIAL-LINE, TRAVELING-WAVE AMPLIFIER
SEL-63-139 N64-24396 17-09

COBALT
CLOSED SOURCES OF GAMMA RADIATION - RADIOACTIVE COBALT, ZINC, CESIUM, & IRIDIUM
JPRS-20129 N64-10512 01-07

COBALT BONDED CARBIDES OF TUNGSTEN, TITANIUM, AND TANTALUM - STRUCTURE AND PROPERTIES
JPRS-18637 N64-10642 01-18

TENSILE TESTING OF THREADLIKE CRYSTALS OF COPPER, NICKEL, AND COBALT N64-10709 02-25

PRODUCTION OF OXYGEN-FLUORINE COMPOUNDS BY COBALT AND HYDROGEN BOMBARDMENT
AD-428142 N64-15688 07-07

ROLLING COBALT POWDER INTO STRIP N64-17022 09-17

MEASUREMENT OF SATURATED VAPOR PRESSURE OF CHROMIUM TO DETERMINE THERMODYNAMIC PROPERTIES OF CHROMIUM AND COBALT N64-17032 09-13

DIFFUSION OF COBALT AND IRON IN IRON-ALUMINUM ALLOYS N64-17034 09-25

DIFFUSION OF COBALT IN NICKEL-CHROMIUM ALLOY AND PLASTIC DEFORMATION OF ALLOYS N64-17035 09-25

SELF-DIFFUSION OF IRON AND DIFFUSION OF COBALT IN IRON-COBALT ALLOYS N64-17036 09-18

TORQUE & ROTATIONAL HYSTERESIS IN FACE-CENTERED-CUBIC SINGLE CRYSTAL COBALT FILMS
AFCRL-64-41 N64-18059 10-25

SUBMICRON IRON AND COBALT PARTICLES PRODUCED BY ELECTRODEPOSITION INTO MERCURY CATHODE TUBE
ASD-TDR-63-423 N64-18568 11-18

RADIAL DISTRIBUTION OF SPIN DENSITY IN COBALT
AMRA-TR-63-18 N64-18572 11-23

EFFECTS OF SUBSTITUTING COBALT FOR NICKEL ON TENSILE PROPERTIES AND HARDNESS OF AUSTENITIC STAINLESS STEEL
BM-RI-6427 N64-19239 11-18

QUANTITATIVE ANALYSIS OF COBALT IN SOLUTION BY DIFFERENTIAL SPECTROPHOTOMETRY - COLORIMETRY
EUR-581.F N64-20876 14-07

ZINC, COPPER, COBALT, AND MOLYBDENUM IN SOILS OF EUROPEAN PART OF USSR
JPRS-26040 N64-28350 20-07

ANISOTROPY AND MAGNETIZATION REVERSAL IN FACE-CENTERED-CUBIC SINGLE CRYSTAL COBALT FILMS
AFCRL-64-420 N64-31986 23-25

SPECTROPHOTOMETRIC METHOD FOR DETERMINATION OF TRACE AMOUNTS OF COBALT IN TANTALUM AND PLUTONIUM
LA-3124 N64-33468 24-07

COBALT ALLOY
STACKING FAULTS AND SEGREGATIONS IN COBALT-BASED ALLOYS N64-10802 02-18

STRESS-CORROSION CRACKING TESTS AND RESULTS OF VACUUM CAST NICKEL-COBALT-STEEL WITH LOW CARBON
L0414-01-24 N64-13121 04-18

COBALT-BASE ALLOY INVESTIGATION FOR APPLICATION TO TURBOELECTRIC SPACE-POWER SYSTEMS
NASA-RP-116 N64-13351 04-18

SHORT TIME TENSILE PROPERTIES OF COBALT-BASE ALLOY
DMIC-MEMO-179 N64-13648 05-18

MECHANICAL PROPERTIES OF STEELS, ALUMINUM, NICKEL, TITANIUM, AND COBALT ALLOYS FOR CRYOGENIC AEROSPACE STRUCTURES
SSD-63-271 N64-15594 07-18

NICKEL-BASE AND COBALT-BASE SUPERALLOYS
AD-432123 N64-16838 08-18

SELF-DIFFUSION OF IRON AND DIFFUSION OF COBALT IN IRON-COBALT ALLOYS N64-17036 09-18

NICKEL-BASE AND COBALT-BASE ALLOYS N64-17210 09-18

GRAIN SIZE, AGING, AND ANNEALING STUDIES OF NICKEL-COBALT-MOLYBDENUM MARAGING STEEL
SR-43111 N64-18715 11-18

WELDABILITY OF NICKEL-COBALT-MOLYBDENUM MARAGING STEEL SHEET
SR-44648 N64-19024 11-18

FORGING PROCEDURE AND MECHANICAL PROPERTIES OF NICKEL-COBALT-MOLYBDENUM MARAGING STEEL
FZM-2608 N64-20070 13-18

ELECTROCHEMICAL RECOVERY OF COBALT-NICKEL ALLOY FROM SUPERALLOY SCRAP
BM-RI-6445 N64-21800 15-07

COBALT-CHROMIUM-NICKEL ALLOY SUPPLEMENTED BY RHENIUM - HARDNESS, CORROSION AND WEAR RESISTANCE
FTD-TT-62-1040/1&2&4 N64-22407 15-18

PHYSICAL PROPERTIES OF WELDED COBALT-MOLYBDENUM-NICKEL ALLOY PLATE - WELDING TECHNIQUES, AGING, FRACTURE TOUGHNESS, & FAILURE SUSCEPTIBILITY
SR-45959 N64-22488 15-18

HIGH TEMPERATURE COBALT-TUNGSTEN ALLOYS FOR AEROSPACE APPLICATIONS
SAE PAPER-843D N64-24005 16-18

METALLURGICAL STUDY OF TUNGSTEN CARBIDE-COBALT AND NICKEL-ALUMINUM ALLOYS
FTD-MT-63-199 N64-24246 17-18

FATIGUE AND STATIC STRENGTH OF TUNGSTEN CARBIDE-COBALT ALLOYS RELATED TO GRAIN SIZES N64-24247 17-18

MECHANICAL PROPERTIES OF IRON-COBALT-VANADIUM ALLOY
DMS-63-23 N64-26618 18-18

MECHANICAL PROPERTIES OF NICKEL AND COBALT ALLOYS
ESRD-13-10 N64-30705 22-18

STRENGTH AND WORKABILITY OF HIGH TEMPERATURE NICKEL-BASE, COBALT-BASE, AND COBALT-REFRACTORY METAL SUPERALLOYS
NASA-TN-D-2495 N64-31001 22-18

DEPOSITION FORMING OF COBALT-TUNGSTEN AND NICKEL ALLOYS BY ELECTROCOMBINATION PROCESS
IPR-2 N64-31135 22-17

MAGNETIC AND PHYSICAL PROPERTIES OF TWO ALLOYS USED IN PRECISION ROTATING COMPONENTS NICKEL-CHROMIUM-IRON ALLOY AND NICKEL-COBALT-IRON ALLOY FOR ROTATING COMPONETS N64-31486 23-18

MAGNETIC CORE MATERIAL SELECTION IN HIGH PERFORMANCE SYNCHROS - IRON ALLOYS WITH SILICON, NICKEL, OR COBALT N64-31507 23-17

CORROSION OF METALS IN MERCURY VAPOR AT HIGH TEMPERATURES - STAINLESS STEELS, MARTENSITIC CHROMIUM STEELS, COBALT & NICKEL ALLOYS AND REFRACTORY METALS
NASA-TM-X-54787 N64-33681 24-18

ALTERATIONS IN MECHANICAL PROPERTIES OF NICKEL & NICKEL, COBALT & FERROUS ALLOYS DUE TO EXPLOSIVE STRESS WAVE
NWL-1930 N64-33861 24-18

COBALT COMPOUND
CONDUCTION MECHANISM IN LITHIUM-SUBSTITUTED OXIDES OF MANGANESE, COBALT, NICKEL, AND COPPER N64-10117 10-25

REACTANT PARTICLES FOR USE IN HIGH TEMPERATURE OXYGEN-NITROGEN SEPARATION DEVICE - OXIDATION MECHANISM OF COBALT OXIDE
REPT.-471 N64-20316 13-17

LITHIUM-COPPER FLUORIDE & LITHIUM-COBALT FLUORIDE COUPLES FOR HIGH ENERGY BATTERY SYSTEMS FOR SPACE APPLICATIONS
AD-433543 N64-21486 14-08

LITHIUM-CUPRIC FLUORIDE AND LITHIUM-COBALTIC FLUORIDE ELECTROCHEMICAL CELLS FOR BATTERIES
APL-TDR-64-59 N64-23970 18-09

GEOMETRY OF TRANSITION METAL DIHALIDES - FLUORIDES OF MANGANESE, COBALT, NICKEL, COPPER, & ZINC

ITR-6 N64-25586 17-19

MORPHOLOGY OF MICROPOROUS PARTICLES AND SINTERING OF COBALT OXIDE POWDERS
REPT.-488 N64-28583 20-18

HEAT CAPACITY OF ANTIFERROMAGNETIC COBALT CHLORIDE HYDRATE NEAR NEEL TEMPERATURE
TR-22 N64-30197 21-25

COBALT 60
SUMMARY OF HEALTH PHYSICS RESEARCH REACTOR WORK & COBALT 60 SOURCE OPERATION IN BREN PROJECT
CEX-6203 N64-10408 01-16

THREE SERIES OF COBALT-60 STANDARDS FOR INTEGRATED THERMAL FLUX MEASUREMENTS
EUR-422.E N64-11311 02-23

ELECTRON SPIN RESONANCE STUDY OF FREE RADICALS PRODUCED DURING COBALT-60 GAMMA IRRADIATION OF ACETONITRILE
ASD-TDR-63-785 N64-11924 03-23

GAMMA RADIOACTIVITY OF RATS AND WATER PHANTOMS BY COBALT-60 AND CERIUM-144 N64-12435 04-16

PREPARATION AND PROPERTIES OF SOLID COBALT 60 STANDARD SOURCES AND SOLUTIONS AND COINCIDENCE COUNTING METHOD
EUR-477.E N64-18407 10-23

COBALT-60 BULK GRAIN IRRADIATION FACILITY
BNL-810/T-312/ N64-19091 11-16

EFFECT OF COBALT 60 IRRADIATION ON WEAR LIFE OF SOLID FILM LUBRICANTS
FTDM-3006 N64-20047 13-17

RADIATION EFFECTS LABORATORY FACILITIES - LINEAR ACCELERATOR, FLASH X-RAY MACHINES, COBALT 60 RADIATION SOURCE, AND HIGH VACUUM EQUIPMENT
N64-20714 13-10

SCATTERED RADIATION FROM COBALT 60 SOURCE IN BRICK STRUCTURE
SAM-TDR-64-14 N64-27474 19-23

FABRICATION OF STANDARD COBALT 60 GAMMA RADIATION SOURCE
BNL-848/T-334 N64-29658 21-10

COMPARATIVE ANALYSIS OF IONIZATION CURRENTS FOR PAIRS OF PARALLEL CYLINDRICAL ELECTRODES SUBJECTED TO COBALT 60 RADIATION
NARF-63-16T N64-33556 24-23

COCKPIT
FIXED AND MOVING COCKPIT SIMULATOR TO STUDY ON-OFF REACTION CONTROL SYSTEM FOR MANUAL ATTITUDE STABILIZATION
NASA-TN-D-2068 N64-11246 02-03

CATHODE-RAY TUBE INSTRUMENT SYSTEM FOR SYNTHESIZING & ANALYZING COCKPIT DISPLAYS
AMRL-TDR-63-84 N64-12074 03-15

MEASURED HUMAN TRANSFER FUNCTIONS - MATCHING ANALOG SIMULATION TO PILOT PERFORMANCE DURING 1 & 2-AXIS TASKS WITH & WITHOUT COCKPIT MOTION
NASA-TN-D-2177 N64-17157 09-14

MOVING COCKPIT PILOTED SIMULATOR TEST OF VTOL AIRCRAFT ALTITUDE CONTROL REQUIREMENTS DURING HOVER
NASA-TN-D-2451 N64-28059 20-10

CODE
SA BINARY CODE
SEARCH AND DISPLAY UNIT FOR TIMING CODE - COMPUTER PROGRAM FOR DATA RETRIEVAL
PAD-73 N64-10224 01-15

DIGITAL CODE CONVERTERS AND CIRCUIT CONSTRUCTION FOR CONVERSION BETWEEN DECIMAL, BINARY-DECIMAL, NUMBER-PULSE, BINARY, AND GRAYS BINARY CODES
N64-11532 03-20

GROUP CODE THEORY AND APPLICATION OF HADAMARD MATRIX TO CODING PROBLEM - CYBERNETICS
FTD-TT-63-544/1&2&4 N64-12384 03-16

CHEMICAL CODE FOR MACHINE SEARCHING OF MOLECULAR SPECTROSCOPIC INFORMATION N64-12699 04-07

MATERIALS AND PROPERTIES INDEX CODE
A267 N64-12863 04-19

IBM 7090 CODE FOR COMPUTATION OF ROOTS OF INHOUR EQUATION
IDO-16904 N64-13135 04-23

CODE SYNCHRONIZATION TECHNIQUES FOR COMMUNICATION SYSTEMS
TDR-269/4111/-9 N64-13890 05-04

COMPUTER PROGRAM FOR USING SPECTRUM CODES IN PREPARING MULTIGROUP CROSS-SECTION INPUT ON PUNCHED CARDS
GA-4436 N64-15526 07-20

BINARY VARIABLE LENGTH CODES CAPABLE OF DETECTING AND CORRECTING TRANSMISSION ERRORS
AFCRL-64-9 N64-15736 07-20

IBM 704 CODE FOR FOLDING MAXWELLIAN VELOCITY INTO SUMS OF RESONANCE FORMULAS
LAMS-3075 N64-22110 15-20

CONVERTING VOLTAGES INTO BINARY CODES
FTD-TT-63-1143/1&2&4 N64-22155 15-09

REPRESENTING VALUES OF OPTIMAL NONUNIFORM CODES ON MASKS OF CATHODE-RAY DECODING TUBES
FTD-TT-61-461/1&2&4 N64-22411 15-09

FREQUENCY-COMBINATION CODE SYSTEM FOR TELEMETRY
N64-23088 16-08

TRIGGERING CODE FOR PROTECTION FROM RANDOM PULSE INTERFERENCE IN TELEMETRY SYSTEMS
N64-23550 16-09

PROGRAMMING - CONSTRUCTION OF LONG CODE FROM SHORT CODE FOR ERROR ANALYSIS N64-24694 17-20

PROGRAMMING - APPLICATION OF CODE RINGS OF TYPE-0 IN CODE TRANSLATORS N64-24695 17-20

STATISTICAL CODING AND VISUAL FIDELITY APPROACHES TO TELEVISION BANDWIDTH REDUCTION PROBLEM
AFCRL-64-323 N64-24950 17-08

ERROR CORRECTING CODES AT LOW SIGNAL TO NOISE RATIOS
NASA-CR-56789 N64-25689 17-08

COMPUTER CODE FOR SIMULATING INTERACTION BETWEEN REENTRY VEHICLE AND SHOCK WAVE FROM NUCLEAR EXPLOSION - HYDRODYNAMICS
TO-B-64-10 N64-25958 18-11

PSEUDORANDOM SIGNAL CODES IN COMMUNICATIONS
NASA-CR-58240 N64-28965 20-08

NONLINEAR CODES - DIFFERENCE SETS, MULTIPLIERS OF DIFFERENCE SETS, AND EXISTENCE OF DIFFERENCE SETS IN ABELIAN GROUPS
AFCRL-64-137 N64-29432 21-20

PARTIAL FRACTIONS AND ERROR-CORRECTING CODES - BOSE-CHAUDHURI CODES
ESD-TDR-64-3489 N64-29605 21-20

DESIGN, CONSTRUCTION, AND EVALUATION OF MATCHED PULSE CODE WIDEBAND FILTER
RR-EERL-6 N64-30633 22-08

CODING
SA ENCODING
SA PROGRAMMING
SA PULSE COMPRESSION
CF DECODING
CODING FOR TRACKING RADAR RANGING
AD-416649 N64-14028 05-08

ESTIMATION OF VECTOR VALUES IN FINITE STATIONARY ERGODIC MARKOV CHAINS AND CONVERSES TO CODING

THEOREM FOR CONTINUOUS MEMORYLESS CHANNELS
NASA-CR-53085 N64-17164 09-20

COMPUTER PROGRAMMING - STRONG CONVERSE TO CODING THEOREM FOR CONTINUOUS MEMORYLESS CHANNELS N64-17166 09-20

MESSAGE CODING, SIGNAL FILTERING, AND INFORMATION THEORY FOR SPACE COMMUNICATIONS N64-17196 09-08

CODING ANALOG VARIABLE FOR CONSTANT PERCENTAGE ERROR
NASA-TN-D-2257 N64-17727 09-20

CODING AND DECODING TIME-DISCRETE AMPLITUDE-CONTINUOUS MEMORYLESS CHANNEL
ALE-TR-399 N64-18366 10-20

COMPUTER SIMULATION OF CODING FOR COLOR PICTURES
NASA-CR-58170 N64-27907 20-15

CODING TECHNIQUES FOR ERROR DETECTION AND CORRECTION IN LONG RANGE COMMUNICATION
USAELRDL-2450 N64-28635 20-08

MULTICHANNEL SEMICONDUCTOR VOLTAGE-TO-CODE CONVERTER WITH DIGIT-BY-DIGIT CODING N64-29139 21-15

INFORMATION THEORY APPLIED TO CODING SYSTEMS N64-29736 21-20

DEGENERATION IN BIOCHEMICAL CODE N64-29743 21-20

DATA TRANSMISSION COMMUNICATION SYSTEM - ERROR CONTROL THROUGH CODING
RADC-TDR-64-149, VOL. I, N64-33537 24-08

RECURRENT BURST-ERROR-CORRECTING CODES
RADC-TDR-64-149, VOL. II, N64-33538 24-08

ERROR CONTROL THROUGH CODING - VARIABLE REDUNDANCY CODES
RADC-TDR-64-149, VOL. III N64-33539 24-08

DATA TRANSMISSION COMMUNICATIONS SYSTEM - RESIDUE CODES FOR ERROR CONTROL
RADC-TDR-64-149, VOL. IV N64-33540 24-08

ERROR CONTROL TECHNIQUES - CODING AND RETRANSMISSION ON REQUEST FOR RELIABLE DIGITAL DATA TRANSMISSION
RADC-TDR-64-149, VOL. V N64-33541 24-08

CODING SYSTEM
DEFINITION AND CLASSIFICATION FOR SYNCHRONIZING CODING SYSTEMS OF AUTOMATIC CONTROL SYSTEMS N64-10829 02-20

ELECTRONIC APPARATUS FOR ERROR CODING SYSTEM AND FAULT DETECTING SEARCH SYSTEM
JPRS-18679 N64-11833 03-20

ARITHMETIC CODING SYSTEM WITH DIGITAL COMPUTER FEEDBACK SYSTEM FOR CORRECTING INDIVIDUAL ERRORS N64-11834 03-20

DECODING RULES FOR ANY KAUTZ CODE
AFCRL-63-514 N64-12289 03-08

CODING SYSTEM FOR COLOR INFORMATION TRANSMISSION IN RETINA - CYBERNETICS N64-12521 04-16

APPLICATION OF SLOP CODE TO UNFOLDING NEUTRON SPECTRA MEASURED WITH SCINTILLATORS N64-12556 04-23

PULSE FREQUENCY MODULATION TELEMETRY - CODING, NOISE ANALYSIS, FILTERS, SIGNAL-TO-NOISE RATIOS
NASA-TR-R-189 N64-12695 04-08

ALPHA CODING SYSTEM FOR ELECTRONIC DIGITAL COMPUTER PROGRAMMING
AD-403047 N64-13100 04-20

ELECTRICAL EQUIPMENT FOR CODING AND COMPUTER SYSTEMS
EB-5261-0341-2 N64-13210 04-08

THRESHOLD DECODING OF CONVOLUTIONAL CODES UP TO 100 TRANSMITTED BITS
MIT-TR-410 N64-14111 05-20

ONE-DIMENSIONAL CODING SYSTEM FOR IBM 7090 ANALYSIS OF REACTOR FUEL DEPLETION
WCAP-6058 N64-14732 06-23

PORTABLE TIME CODE GENERATOR FOR SLED OPERATION
AD-429069 N64-14838 06-15

COMMAND STRUCTURE AND NOTATION SYSTEMS FOR FIVE SOVIET DIGITAL COMPUTERS
RM-3804-PR N64-16046 07-20

TURBO - IBM COMPUTER CODE FOR SOLUTION TO NEUTRON DIFFUSION EQUATIONS
WCAP-6059 N64-17264 09-20

NONADJUSTED RELAY FOR CODING AND COMMUNICATIONS SYSTEMS N64-19535 12-09

COEFFICIENT
S ACCOMMODATION COEFFICIENT
S AERODYNAMIC COEFFICIENT
S DIFFUSION COEFFICIENT
S DISCHARGE COEFFICIENT
S DRAG COEFFICIENT
S FRICTION COEFFICIENT
S HEAT-TRANSFER COEFFICIENT
S IONIZATION COEFFICIENT
S PRESSURE COEFFICIENT
S REFLECTION COEFFICIENT
S REGRESSION COEFFICIENT
S RESISTANCE COEFFICIENT
S SCATTERING COEFFICIENT
S SEEBECK COEFFICIENT
S SORET COEFFICIENT
S THERMAL ACCOMMODATION COEFFICIENT
S TRANSPORT COEFFICIENT

COESITE
COESITE AND SHATTERED QUARTZ IN HOLLEFORD CRATER N64-14848 06-12

COESITE AS CRITERION OF METEORITIC ORIGIN OF CRATERS
T-385-R N64-33484 24-12

COGNITION
SA RECOGNITION
CF DECISION
EDUCATION - ACCEPTANCE OF ATTITUDE DISCREPANT INFORMATION - REVERSING COGNITIONS
TR-2 N64-21186 14-08

COGNITIVE HYBRID INTELLIGENT LEARNING DEVICE
COGNITIVE HYBRID INTELLIGENT LEARNING DEVICE - TWO TYPES OF LEARNING SYSTEMS BASED ON INDUCTIVE AND DEDUCTIVE METHODS OF COGNITION N64-11038 02-20

COHENITE
PROPERTIES OF COHENITE FOR EVALUATION AS PRESSURE INDICATOR IN IRON METORITES
NASA-RP-246 N64-25973 18-29

COHERENT LIGHT
LASER - NOVEL PROPERTIES, WORKING PRINCIPLES, AND COHERENCE OF LASER RADIATION N64-12560 04-25

LASERS FOR COMMUNICATION & DIFFRACTION OF COHERENT SOURCES
RADC-TDR-63-217 N64-13426 05-01

DIFFRACTION OF COHERENT, PARTIALLY COHERENT, AND INCOHERENT LIGHT BY PLANE APERTURE N64-13428 05-25

ELECTROMAGNETIC DIFFRACTION IN FOCAL REGION OF COHERENT LIGHT BEAMS
PR-2 N64-13896 05-23

SCANNABLE PHOTOSENSITIVE IMAGE DETECTOR FOR COHERENT LIGHT
RADC-TDR N64-14352 06-09

COHERENT OPTICAL BEAM ELECTRONIC SCANNING

TECHNIQUES
RADC-TDR-63-450, VOL. I N64-14494 06-25

DATA REDUCTION BY COHERENT OPTICAL LIGHT SYSTEM WITH PHOTOGRAPHIC FILMS
REPT.-4594-40-R N64-18871 11-23

OPTICS - ARRAY THEOREM STUDY BY MUTUAL COHERENCE USING MONOCHROMATIC RADIATION
AFCRL-64-19 N64-18942 11-09

FABRY-PEROT INTERFEROMETER WITH ELECTRO-OPTICAL CRYSTALS AS PHASE SHIFTERS AND USED AS WIDEBAND COHERENT LIGHT MODULATOR
ASD-TDR-63-604 N64-20732 13-25

PRINCIPLES OF GENERATORS OF COHERENT LIGHT AND MOLECULAR AMPLIFIER
AD-402436 N64-22405 15-25

SPATIAL COHERENCE AND POWER DENSITY OF COOLED RUBY LASER
REPT.-1579-10 N64-23976 16-25

ELECTROMAGNETIC FIELD IN FOCAL REGION OF COHERENT LIGHT BEAMS
PR-3 N64-26848 18-25

COHERENT LIGHT-RECORDING TECHNIQUE TO ACHIEVE HIGH PACKING DENSITIES USING PHOTOGRAPHIC AND THERMOPLASTIC FILMS
RADC-TDR-64-203 N64-31909 23-25

COHERENT RADAR
OPTICAL COHERENCE APPLIED TO ERGODIC FIELDS AND DYNAMIC STATES OF NONLINEAR DIFFERENTIAL EQUATION
USCEC-102-101 N64-31097 22-08

OPTICAL COHERENCE APPLIED TO ERGODIC FIELDS
N64-31098 22-08

COHERENT RADIATION
GENERATION & CONTROL OF COHERENT OPTICAL BEAMS - SOLID, LIQUID, & GAS LASERS
RADC-TDR-63-450, VOL. 2 N64-14495 06-25

DIFFRACTION AND FOCUSING OF PARTIALLY COHERENT RADIATION BY CIRCULAR APERTURE
REPT.-1579-4 N64-15364 07-08

ELECTROMAGNETIC INTERACTION OF ELECTRON CLUSTERS DURING COHERENT RADIATION IN SYNCHROTRON
FTD-TT-62-1747/1&2&4 N64-21925 15-23

PLASMA DENSITY IN ARC DISCHARGE - ELECTRON BEAM-PLASMA INTERACTION FOR GENERATION AND AMPLIFICATION OF COHERENT SIGNALS
TR-64 N64-22327 15-24

LASER ELECTROMAGNETICS - GENERATION, PROPAGATION, AND DETECTION OF VERY HIGH FREQUENCY OPTICAL COHERENT RADIATION
AFCRL-64-538 N64-29835 21-25

TECHNIQUES OF OBTAINING POPULATION INVERSIONS IN MOLECULAR VIBRATIONAL ENERGY LEVELS TO BE USED TO GENERATE COHERENT INFRARED RADIATION
VARIAN-314-1S N64-30159 21-25

COHERENT SCATTERING
MULTIPLE COHERENT SCATTERING OF OPTICAL RESONANCE RADIATION APPLIED TO MERCURY
E-T-8-63-2 N64-12860 04-23

USE OF INTENSITY RATIO OF COHERENT TO INCOHERENT SCATTERING OF X-RAYS FOR DETERMINATION OF CARBON TO HYDROGEN RATIO IN ORGANIC COMPOUNDS
EUR-488.F N64-26100 18-07

COHERENT SOURCE
COHERENCE FUNCTION AND INFORMATION THEORY FOR CONTROLLED ELECTROMAGNETIC RADIATIVE SOURCES IN ANTENNA OR OPTICAL SYSTEMS
SR-3 N64-24969 17-08

COHERENT TRANSMISSION
IONOSPHERIC PARAMATERS FROM PHASE DIFFERENCE AND ROTATION OF POLARIZATION PLANE OF COHERENT SIGNALS FROM COSMOS I & COSMOS II SATELLITES
N64-10277 01-12

IONOSPHERE ELECTRON DENSITY FROM PHASE SHIFT AND ROTATION OF PLANE OF POLARIZATION OF COHERENT SIGNALS TRANSMITTED FROM SATELLITES
N64-10278 01-12

COHERENT RADIO RECEIVER FOR RECORDING DIFFERENCE IN DOPPLER SHIFT OF RADIO-WAVE FREQUENCY OF SATELLITE TRANSMISSIONS N64-12503 04-08

FREQUENCY RESPONSE FUNCTIONS & COHERENCE FUNCTIONS FOR MULTIPLE INPUT LINEAR SYSTEMS
NASA-CR-32 N64-17989 10-20

HIGH GAIN ANTENNA ARRAY FOR COHERENT TRANSMISSION AT ULTRAHIGH FREQUENCIES
REPT.-1072-7 N64-21074 14-09

FREQUENCY RESPONSE FUNCTION IN COHERENT OPTICAL SYSTEM AND FREQUENCY SELECTION CHARACTERISTICS IN TRANSMITTING OPTICAL INFORMATION
E-T-CH-63-4 N64-31170 22-23

COHESION
COHESIVE ENERGY OF IONIC CRYSTALS
SR-2 N64-17620 09-25

COHOMOLOGY
FUNCTIONAL COHOMOLOGY OPERATIONS
AROD-2799-5 N64-18050 10-20

FUNCTIONAL COHOMOLOGY OPERATIONS AND RELATIONS - STEENROD ALGEBRA
AROD-2799-6 N64-33572 24-20

COIL
CF SOLENOID
THREE & FOUR COIL SYSTEMS FOR UNIFORM MAGNETIC FIELD OF LARGE VOLUME
NASA-TN-D-2095 N64-14983 04-23

EPOXY ENCAPSULATED COILS FOR RELAYS
N64-19510 12-17

APPROXIMATE POWER-TEMPERATURE RELATIONSHIP FOR COPPER WIRE COILS - RELAYS N64-19542 12-09

MAGNETIC FORMING COIL DESIGN AND DEVELOPMENT
NASA-CR-56468 N64-24048 16-09

SWITCHING MAGNET WITH LAMINATED H-TYPE MULTISTRANDED WATER-COOLED COIL FOR ELECTRON BEAM
SLAC-28 N64-26607 18-09

COMPUTER ANALYSIS OF PROBLEMS OF FOUR CIRCULAR-COIL SYSTEM N64-28213 20-23

SQUARE-COIL SYSTEM FOR PRODUCTION OF UNIFORM MAGNETIC FIELD N64-28214 20-23

MATHEMATICAL ANALYSIS OF SIX CIRCULAR-COIL SYSTEM FOR PRODUCTION OF UNIFORM MAGNETIC FIELD
N64-28215 20-23

DIMENSIONS OF COIL SYSTEMS NECESSARY TO PRODUCE UNIFORM MAGNETIC FIELD N64-28216 20-23

UNIFORM MAGNETIC FIELD SYNTHESIS ALONG AXIS OF COAXIAL COIL & SOLENOID SYSTEM
GSP/PHYS-64-10 N64-33884 24-23

COLD TOLERANCE /BIOL/
CF ACCLIMATIZATION
COLD EXPOSURE EFFECT ON ACTION OF MORPHINE IN RATS AND MICE
AAL-TDR-62-50 N64-23109 16-16

MEDICAL CASE HISTORIES ON EXISTENCE IN ANTARCTIC REGION
FTD-TT-64-291/1 N64-32236 23-16

HUMAN REACTIONS TO COLD ENVIRONMENT
AD-444482 N64-33366 24-16

COLD WEATHER
CLIMATOLOGICAL STUDY OF AIR CURRENT PATTERN IN CYCLONE-ANTICYCLONE SYSTEM, AND OF MECHANISM OF COLD WAVE AND COLD WEATHER ONSET

RSIC-120 N64-15064 07-21

ASCORBIC ACID PROPHYLAXIS AND TREATMENT FOR ILLNESS, TRAUMA, EXPOSURE TO COLD WEATHER, AND EXTREME PHYSICAL EXERCISE
AD-429526 N64-25323 17-16

DETERMINATION OF VERTICAL VELOCITY AND PRECIPITATION RATE PATTERNS ASSOCIATED WITH DEVELOPING COLD LOW AT 500-MB
CIR-3961 N64-27074 19-21

COLD WEATHER TESTING
CAPABILITY OF COMMUNICATIONS AND GROUND POWER EQUIPMENT TO OPERATE UNDER COLD WEATHER CONDITIONS
TAC-TR-63-73 N64-19863 12-08

COLD WORKING
SA STRETCH FORMING
CF EXTRUSION
COLD WELDING OF PLASTIC METALS
JPRS-19103 N64-10815 02-18

RECOVERY BEHAVIOR OF COLD-WORKED METALS AT VARYING TEMPERATURES AND STRESSES
ASD-TDR-62-984 N64-12182 03-18

HOT-COLD WORKING OF AUSTENITIC STEEL TO IMPROVE STRENGTH CHARACTERISTICS
DMIC-192 N64-13672 04-18

STAMPING-COLD DRAWING OF HEAT RESISTANT SHEET METAL N64-17083 09-17

THERMOELECTRIC POWER OF ANNEALED AND COLD WORKED BISMUTH N64-17967 10-23

EFFECTS OF COLD WORKING ON MECHANICAL PROPERTIES OF PRECIPITATION HARDENED SINTERED ALUMINUM POWDER PRODUCTS
EUR-433.D N64-21003 14-18

DENSITY CHANGES ON ANNEALING COLD-WORKED MOLYBDENUM
FA-A64-6 N64-22893 16-18

RESISTOMETRIC INVESTIGATION OF RECOVERY OF DILUTED ALUMINUM-MAGNESIUM ALLOYS COLD-WORKED AT LIQUID NITROGEN TEMPERATURE
REPT.-13.178/6401.105 N64-27691 19-18

EXTRUSION AND COLD WORKING ASPECTS OF DISPERSION-STRENGTHENED ALUMINUM
EUR-1844.F N64-28417 20-18

SCALE SIZE WAFFLE PANEL WITH INTEGRAL RIBS FORMED BY COLD PRESS-EXTRUSION TECHNIQUE
NASA-TM-X-53058 N64-28746 20-34

IMPURITY EFFECTS ON RESISTIVITY RECOVERY SPECTRUM OF COLD WORKED CADMIUM
TR-6 N64-30678 22-18

COLD WORKING PRESSURE FOR TITANIUM ALLOYS AND PRODUCTION OF NIOBIUM ALLOYS FROM OXIDES
JPRS-26789 N64-32129 23-18

TENSILE TESTING, FLUID-TO-FLUID EXTRUSION, AND COLD DEFORMATION OF BERYLLIUM AND TUNGSTEN
EPR-1 N64-32652 23-18

FABRICATION OF REFRACTORY METALS AND ALLOYS - METAL FORMING, DEPOSITION, COLD WORKING, WELDING, AND MACHINING TECHNIQUES N64-32768 24-17

FATIGUE TESTS OF COLD WORKED STEELS - X-RAY ANALYSIS OF MICRODISPLACEMENT N64-32846 24-18

COLLAPSE
INSTANTANEOUS COLLAPSE AND CREEP BUCKLING OF CYLINDRICAL SHELLS
ORNL-3555 N64-18275 10-33

PREDICTION OF BUCKLING OR COLLAPSE FAILURE MODE IN PLASTIC DEFORMATION OF CYLINDRICAL SHELLS
TR-4 N64-24392 17-33

COLLAPSE OF STAR - NUMERICAL INTEGRATION OF EINSTEIN EQUATIONS FOR CASE OF COLD FERMI GAS
NASA-TT-F-8689 N64-24902 17-05

COLLECTOR
SA SOLAR COLLECTOR
CF CONCENTRATOR
COLLECTING MICROORGANISMS IN UPPER ATMOSPHERE
AD-428703 N64-19877 12-16

TESTING THERMIONIC CONVERTERS WITH DIFFERENT EMITTERS AND COLLECTORS
APL-TDR-64-63 N64-22384 15-06

COLLECTOR ELECTRODES IN THERMIONIC CONVERTERS N64-22982 16-09

THERMIONIC CONVERTER OPERATING WITH HIGH TEMPERATURE COLLECTOR
GEST-2034 N64-23874 16-09

EMITTER-COLLECTOR PAIRS FOR GAS PLASMA THERMIONIC ENERGY CONVERSION
HD-6827 N64-30527 22-06

EFFECT OF COLLECTOR MESH SIZE ON WRITING BEAM AND STORED LINE WIDTHS IN HIGH RESOLUTION DIRECT VIEW STORAGE TUBE N64-30645 22-09

DEPRESSED COLLECTORS FOR HIGH POWER KLYSTRONS - ELECTRON BEAM TUBES
ESD-TDR-64-339 N64-30648 22-09

FRACTION COLLECTOR FOR DISTILLATION AND SUBSEQUENT HANDLING OF AIR AND/OR MOISTURE SENSITIVE COMPOUNDS
SUFFIELD-TN-128 N64-32879 24-07

COLLISION
SA ATOMIC COLLISION
SA COULOMB COLLISION
SA ELECTRON COLLISION
SA PARTICLE COLLISION
EFFECT OF COLLISION SIZE ON BOLTZMANN EQUATION
R63SD87 N64-10314 01-23

EFFECT OF COLLISION ON COUPLING BETWEEN PLASMA ION OSCILLATIONS AND ELECTRIC CURRENTS
MATT-176 N64-11473 03-24

FOUR-SECTOR AIRCRAFT EXTERIOR LIGHTING SYSTEM AS COLLISION WARNING DEVICE N64-11654 03-04

MASS SPECTROMETER TO MEASURE PROCESSES OCCURRING WHEN ELECTRONS & IONS COLLIDE
E-T-R-63-7 N64-13259 04-23

INELASTIC MOLECULAR COLLISIONS USING MOLECULAR BEAM TECHNIQUE - SQUID PROJECT N64-13489 05-24

COLLISION-INDUCED DISSOCIATION RATES IN THERMAL PLASMAS
AIAA PAPER-64-55 N64-14064 05-24

ELASTIC NEUTRINO INTERACTIONS - NEUTRINO-NEUTRON INTERACTION N64-15514 07-23

NEUTRINO EXPERIMENTS - ELASTIC INTERACTIONS - BUBBLE CHAMBER AND SPARK CHAMBER TRACKS N64-15515 07-23

HEAVY MOLECULES AS PROPELLANTS FOR ELECTRON BOMBARDMENT ION THRUSTOR AND SURVEY OF MOLECULAR PLASMA COLLISION PROCESSES
NASA-TN-D-1185 N64-15906 07-24

POSITRON DEPOLARIZATION MECHANISMS EFFECT OF ELECTRON COLLISIONS AND MULTIPLE SCATTERING ON NUCLEI N64-16264 08-23

MONTE CARLO CODE FOR NUCLEAR COLLISION DENSITY OF PRIMARY GALACTIC PROTONS IN ALUMINUM SLAB
NASA-TN-D-2122 N64-17295 09-23

COLLISION-INDUCED DISSOCIATION RATES OF DIATOMIC AND TRIATOMIC MOLECULES
NASA-CR-53345 N64-17822 09-23

MASS SPECTROMETER OBSERVATION OF SLOW IONS PRODUCED BY CHARGE TRANSFER AND IONIZATION COLLISION

REPT. 18 N64-18307 10-23

INFLUENCE OF GYRATION RADIUS AND COLLISIONS ON HYDROMAGNETIC STABILITY
MATT-218 N64-18338 10-24

MATHEMATICAL ANALYSIS OF LATTICE BOUNDARY VALUE PROBLEMS APPLIED TO MOLECULAR PARTICLE COLLISIONS WITH SURFACES
NASA-CR-53577 N64-18455 10-23

CALCULATION OF CROSS SECTIONS FOR VIBRATIONAL EXCITATION OF CARBON DIOXIDE BY COLLISION WITH NITROGEN
GDA-DBE-64-004 N64-18624 11-23

COLLISION PROCESSES IN GASEOUS PLASMAS
SATR-1 N64-18704 11-24

COLLISION WARNING DEVICE - COOPERATIVE DEVICE FOR RECOGNIZING WHETHER OBSERVING AIRCRAFT COURSE AND OBSERVED AIRCRAFT COURSE FORM COLLISION TRIANGLE
RAE-TRANS-1053 N64-18718 11-22

INELASTIC COLLISIONS STUDIED WITH MOLECULAR BEAM - SQUID PROJECT
N64-18863 11-23

COEFFICIENTS FOR ELECTRON ATTACHMENT, ELECTRON-MOLECULE COLLISIONS, AND ION-ION AND ELECTRON-ION RECOMBINATION IN ATMOSPHERIC GASES AND IMPURITIES
RTD-TDR-63-3076 N64-20112 13-24

PROPOSED STUDY OF COLLISION PROCESSES LEADING TO ELECTRONIC EXCITATION AND IONIZATION BEHIND SHOCK WAVES
NOLTR-63-33 N64-21089 14-23

EFFECTIVE COLLISION CROSS SECTIONS IN MONOCHROMATIC BEAM SCATTERING
NASA-TT-F-8880 N64-23050 16-23

QUANTUM THEORY OF VIBRATIONAL ENERGY EXCHANGE - TRANSITION PROBABILITIES ASSOCIATED WITH INELASTIC COLLISIONS OF ATOMS N64-23208 16-23

MOMENTUM TRANSFER AND INELASTIC COLLISION CROSS SECTIONS FOR ELECTRONS IN NITROGEN USING TRANSPORT COEFFICIENTS
TDS-64-928-113-P4 N64-25502 17-23

DEACTIVATION OF NEON METASTABLES BY INELASTIC COLLISIONS WITH HYDROGEN
AFOSR-64-0571 N64-25742 17-19

SINGULAR INTEGRAL EQUATION THEORY APPLIED TO LINEARIZED PROBLEM IN COUETTE FLOW DERIVED FROM KROOK STATISTICAL MODEL FOR INTERMOLECULAR COLLISIONS
RM-4027-PR N64-26498 18-11

EXPONENTIAL DAMPING OF LARGE TRANSVERSE MOMENTA OF PARTICLES PRODUCED IN HIGH ENERGY COLLISION
TH-58 N64-27219 19-23

QUANTUM CORRECTION TO PHASE SHIFT IN COLLISION OF PARTICLES WITH SPHERICALLY SYMMETRIC POTENTIAL
WIS-TCI-34A N64-27418 19-23

DISSOCIATION OF METHANE MOLECULE IONS FORMED IN CHARGE EXCHANGE COLLISIONS WITH POSITIVE IONS - ION-MOLECULE REACTIONS OF METHANE
AFCRL-64-545 N64-27535 19-07

ATOMIC AND MOLECULAR COLLISION CROSS SECTIONS IN CONTROLLED THERMONUCLEAR RESEARCH - BIBLIOGRAPHY
ORNL-3113, REV. N64-27948 20-23

COLLISION OF WEST FORD NEEDLES WITH MICROMETEORITES
RSIC-235 N64-28530 20-05

ATMOSPHERIC TURBULENCE ENCOUNTERED BY COMET II AIRCRAFT CARRYING CLOUD COLLISION WARNING RADAR
ARC-CP-713 N64-28847 20-04

USE OF BOLTZMANN EQUATION TO DERIVE DISPERSION LAW FOR COLLISIONS IN LONGITUDINAL PLASMA WAVES AND TRANSVERSE WAVE PROPAGATION
DI-82-0273 N64-29898 21-24

DETERMINATION OF ELECTRON DENSITY AND ELECTRON COLLISION FREQUENCY IN PULSED GAS DISCHARGE PLASMA N64-30357 22-24

WAVE PROPAGATION MEASUREMENT TO DETERMINE ELECTRON DENSITY, COLLISION FREQUENCY, AND ELECTRON TEMPERATURE N64-30360 22-24

COLLISION OF TWO PLATES AT HIGH SPEED - HYPERVELOCITY IMPACT N64-30362 22-11

ROLE OF INELASTIC COLLISIONS IN KINEMATICS OF ELASTIC SCATTERING WITH LARGE MOMENTUM TRANSFER
CERN-64-38 N64-31628 23-23

INTERACTION POTENTIAL DETERMINATION FOR COLLISION INVOLVING PROTON APPROACHING AXIS OF HYDROGEN MOLECULE
NOLTR-64-85 N64-31673 23-23

THREE-BODY COLLISIONAL RECOMBINATION OF CESIUM SEED IONS AND ELECTRONS IN HIGH DENSITY PLASMAS WITH ARGON CARRIER GAS
NASA-TN-D-2004 N64-32404 23-24

VISCOSITY AND VARIATION OF MODERATELY DENSE GASES FROM MODEL OF TRIPLE COLLISION AND CHAPMAN-ENSKOG THEORY - SQUID PROJECT
BRN-13-P N64-32979 24-11

COLLISIONS IN GASES, MAGNETIC SUSCEPTIBILITY OF BERYLLIUM, REACTIONS OF ALLYLIC ALCOHOLS, ACTIVITY COEFFICIENTS, BIOLOGICAL EFFECTS OF RADIATION, AND ECOLOGY OF DRAINAGE AREA
NASA-CR-58839 N64-33048 24-07

ELASTIC COLLISION STOPPING OF PARTICLES FROM PLANE UNIDIRECTIONAL SOURCE IN INFINITE MEDIUM OF RANDOMLY LOCATED TARGET ATOMS
ARL-64-129 N64-33954 24-23

COLLISION AVOIDANCE NAVIGATION
COMPATIBLE INTERROGATOR-TRANSPONDER TECHNIQUES APPLIED TO AIRBORNE PILOT WARNING INDICATOR AND COLLISION AVOIDANCE SYSTEM - LABORATORY TEST
EB-5261-0341-1 N64-13134 04-10

RANGING/ALTITUDE INDICATOR FOR COLLISION AVOIDANCE NAVIGATION
RD-64-5 N64-16254 08-10

VISUAL AIDS FOR AIRCRAFT PILOTS TO AVOID MID-AIR COLLISIONS
FAA-RD-64-2 N64-20440 13-22

COLLISION RATE
ELECTRICAL TRANSPORT EQUATION EXTENDED TO COLLISION FREQUENCY AND FINITE WAVELENGTH FOR PLASMA MODEL
MATT-216 N64-11279 02-24

ELECTRON CYCLOTRON RESONANCE ABSORPTION METHOD FOR COLLISION RATE MEASUREMENT OF ELECTRON-CESIUM ATOM INTERACTIONS N64-14206 04-23

ABSORPTION COEFFICIENT, ELECTRON DENSITY, AND COLLISION RATE OF HELIUM PLASMA WITH ARGON TRACE AT HIGH MICROWAVE FIELD INTENSITIES N64-14222 04-24

COLLISION FREQUENCY VALUES OBTAINED FROM RADIO-WAVE INTERACTION IN ALASKA
UAGR-148 N64-19672 12-08

METHOD FOR EVALUATING ELECTRON COLLISION FREQUENCY IN IONOSPHERE BY SOLVING BAILEY EQUATION N64-19680 12-12

COLLISIONLESS PLASMA
PROPAGATION OF HYDROMAGNETIC WAVES IN A COLLISIONLESS PLASMA
IPPJ-11 N64-11248 02-24

INTERPRETATION OF RUNAWAY EFFECT IN COLLISIONLESS

PLASMA - LINEARIZATION OF BOLIZMANN EQUATION
N64-14224 06-24

EXACT SOLUTION OF COLLISIONLESS PLASMA SHEATH EQUATION
ARL-64-13 N64-16794 08-24

FREQUENCY RANGES FOR EXISTENCE OF WAVES IN COLD, COLLISIONLESS, HYDROGEN PLASMA
NASA-TN-D-2273 N64-18737 11-24

ASYMPTOTIC ANALYSIS OF LANGMUIR PROBE PROBLEM IN QUIESCENT COLLISIONLESS PLASMA
AFOSR-64-0353 N64-18901 11-24

ELECTROMAGNETIC WAVE PROPAGATION IN COLD, COLLISIONLESS ATOMIC HYDROGEN PLASMA
NASA-TN-D-2071 N64-18954 11-24

COMPRESSION WAVE MOTION IN COLLISIONLESS PLASMA - ADIABATIC STATE
NF-36 N64-19299 12-24

NUMERICAL COMPUTATIONS FOR ION PROBE CHARACTERISTICS IN COLLISIONLESS PLASMA
NATT-252 N64-23211 16-24

SHORT AND LONG WAVELENGTH DISTURBANCES OF TWO-COMPONENT COLLISIONLESS PLASMA POLARIZED PARALLEL TO MAGNETIC FIELD
AGN-115 N64-25813 17-24

STRUCTURE OF STRONG COLLISIONLESS WAVE IN PLASMA PERPENDICULAR TO MAGNETIC FIELD
NASA-TM-X-55010 N64-27248 19-24

ALFVEN WAVE PROPAGATION IN COLLISIONLESS PLASMA WITH EXTERNAL MAGNETIC FIELD
NASA-TM-X-55083 N64-33635 24-24

COLLOID
SA COLLOIDAL PROPELLANT
SA ELECTROPHORESIS
CF SLURRY
CHARGING TIME IN APPLIED ELECTRIC FIELD FOR ALKALI METALLIC COLLOIDS
NASA-TN-D-2078 N64-12106 03-23

MASS FLOW, BEAM CURRENT, VOLTAGE, AND THRUST MEASUREMENTS OF INDUCTION CHARGED COLLOID GENERATING SYSTEM FOR ELECTRIC PROPULSION
NASA-CR-54049 N64-25007 17-27

ELECTRICAL DISPERSION OF LIQUIDS - TECHNIQUE FOR GENERATING A CHARGED COLLOID BEAM
APL-TDR-64-75 N64-27961 20-07

EXPERIMENTAL ANALYSIS OF EXHAUST BEAM FROM COLLOID THRUSTOR
AIAA PAPER-64-674 N64-28358 20-27

CONDENSATION COLLOIDAL ION SOURCE FOR PRODUCTION OF PROPELLANT PARTICLES FOR ELECTROSTATIC ION ENGINE
ASD-TDR-63-825 N64-28815 20-27

OPERATION OF SKIMMER NOZZLE AND USE AS COLLOIDAL ION SOURCE AND FOR SYNTHESIS OF CHEMICAL SUBSTANCES, CLUSTER IONS, OR CHARGED BODIES
TN-R-90 N64-30760 22-27

COLLOIDAL PROPELLANT
CONTROLLED-GROWTH COLLOIDAL ION SOURCE FOR ELECTROSTATIC PROPULSION N64-31604 23-27

COLOR PERCEPTION
COLOR VISION THEORY N64-18829 11-16

COLOR DISCRIMINATION WITHOUT CHROMATIC VISION
QTSR-3 N64-22241 15-14

COLOR DISCRIMINATION WITHOUT CHROMATIC VISION USING PRISM GLASS
REPT.-2 N64-28581 20-16

COLOR PHOTOGRAPHY
QUANTITATIVE STRIOSCOPY FOR SUPERSONIC WIND TUNNEL DATA USING COLORED GRIDS AND MULTIPLE ENTRANCE SLIT N64-18210 10-15

THREE-COLOR PHOTOGRAPHY OF MARS
N64-20886 14-05

COLORIMETRY
CF SPECTROSCOPY
COLORIMETRY, SPECTRAL ANALYSIS, AND OBSERVATION OF VARIABLE STARS AT UNIVERSITY OF PADUA
N64-10019 01-05

COLORIMETRY OF GALACTIC CLUSTER NGC 6939
N64-10021 01-05

POLARIMETRIC AND COLORIMETRIC STAR, COMET, AND GALAXY OBSERVATIONS OF THE BYURAKAN OBSERVATORY
N64-10026 01-05

COLORIMETRIC PHOTOMETRY OF GALAXIES NGC 2976, 3031, 3034, AND 3077 N64-10027 01-05

ABSOLUTE TWO-COLOR PHOTOMETRY OF GALAXY NGC 7331
N64-10028 01-05

COLORIMETRY OF COMETARY NEBULA NGC 2261
N64-10031 01-20

SURFACE TEMPERATURE MEASUREMENTS OF SELF-LUMINOUS BODIES AND OTHER BRIGHTNESS PARAMETERS USING COLOR DENSITOMETRY N64-15464 07-23

QUANTITATIVE ANALYSIS OF COBALT IN SOLUTION BY DIFFERENTIAL SPECTROPHOTOMETRY - COLORIMETRY
EUR-581.F N64-20876 14-07

ELECTRON MICROSCOPY AND COLORIMETRY OF ROLLED AND CAST URANIUM AND URANIUM-CARBON ALLOY SPECIMENS
NLCO-930 N64-33011 24-18

COMBUSTION
SA DEFLAGRATION
SA EXTERNAL COMBUSTION ENGINE
SA FLAME
CF OXIDATION
THERMODYNAMIC COMPARISON BETWEEN SUBSONIC AND SUPERSONIC FUEL COMBUSTION N64-10135 01-27

COMBUSTION DRIVEN SHOCK TUBE INVESTIGATION OF TOTAL RADIANCE OF AIR AT HIGH TEMPERATURES
LMSC-6-90-63-97 N64-11240 02-02

MEASUREMENT OF TEMPERATURE PROFILES OF BURNING SOLID PROPELLANTS BY MICROTHERMOCOUPLES
AERONAUTICAL ENG. REPT.-664 N64-11763 03-26

HEAT CONTENT-ENTROPY DIAGRAMS FOR COMBUSTION PRODUCTS OF HYDROCARBON & NITROGEN GAS MIXTURE
N64-11973 03-26

COMBUSTION PROPERTIES OF EXPLOSIVE POWDERS
N64-11977 03-26

HEATS OF COMBUSTION & FORMATION OF CARBIDES OF TUNGSTEN & MOLYBDENUM
BM-RI-6337 N64-12120 03-26

COMBUSTION IN TURBULENT FLOW
NASA-TT-F-97 N64-13410 05-26

STRUCTURE OF COMBUSTION ZONE IN TURBULENT FLAME - MEASUREMENT OF IONIZATION PHENOMENA
N64-13412 05-26

COMBUSTION IN TURBULENT FLOW - MODELS
N64-13413 05-26

EXPERIMENTAL BASIS OF THEORY OF TURBULENT COMBUSTION N64-13414 05-26

SQUID PROJECT FLUID MECHANICS, TRANSPORT AND TRANSFER PROCESSES, CHEMICAL KINETICS, AND COMBUSTION PHENOMENA
AD-420576 N64-13476 05-01

SOLID PROPELLANT COMBUSTION MECHANISMS - SQUID PROJECT N64-13490 05-24

COMBUSTION OF TEFLON MONOMER AND MECHANICAL & ELECTRICAL PROPERTIES OF POLYMERS
TDR-169/3240-22/TR-1 N64-13761 05-26

FORCE BALANCE STUDY OF COMBUSTION INLETS FOR ADVANCED VEHICLE APPLICATIONS
ASD-TDR-63-701 N64-13805 05-02

DIESEL ENGINE COMBUSTION
AD-429013 N64-14785 06-26

THERMAL DECONPOSITION AND BURNING OF AMMONIUM PERCHLORATE
FTD-TT-62-1902/1&2&4 N64-15423 07-26

UNSTEADY BURNING OF LIQUID FUEL DROPLETS AND PERIODIC SOLUTIONS OF FUEL INJECTION PROCESSES
NASA-CR-55516 N64-15904 07-26

EFFECT OF CHEMICAL COMPOSITION AND ADDITIVES ON FUEL COMBUSTION IN JET ENGINES
FTD-TT-62-743/1&2&4 N64-16059 07-26

COMBUSTION, PRESSURE LOSSES, AND PERFORMANCE MEASUREMENTS OF ROCKET ENGINE CARBURETOR BARRELS
N64-16214 08-27

COMBUSTION AT LOWERED PRESSURES - COMPLETENESS & STABILITY OF COMBUSTION OF PREVAPORIZED FUELS
FTD-TT-62-948/1&2&4 N64-16230 08-26

INFLUENCE ON REDUCED PRESSURE ON FLAME PROPAGATION AND COMBUSTION ZONE IN TURBULENT FLOW
N64-16231 08-26

EFFECT OF PREVAPORIZATION ON COMPLETENESS AND STABILITY OF ATOMIZED FUEL N64-16232 08-26

COMBUSTION OF ELEMENTAL BORON WITH FLUORINE - DEPENDENCE OF REACTION MECHANISMS ON TEMPERATURE AND PRESSURE
TEI-TP-209 N64-16444 08-26

MECHANISM OF DECONPOSITION, COMBUSTION, AND DETONATION OF SOLIDS
AD-431563 N64-16892 08-26

COMBUSTION-GRAVIMETRIC METHOD FOR MEASUREMENT OF TRACE AMOUNTS OF CARBON IN SODIUM METAL
LA-3035 N64-16934 09-07

COMBUSTION OF BERYLLIUM AND ALUMINUM PARTICLES
ARC-8-P N64-17285 09-26

DEPENDENCE OF INFRARED ABSORPTANCE ON PARTIAL PRESSURE FOR CARBON DIOXIDE & WATER - COMBUSTION GAS ANALYSIS FOR PROPULSION RESEARCH
NASA-CR-54002 N64-17598 09-26

FORMATION OF DETONATION WAVES IN LIQUID HYDROGEN-OXYGEN MIXTURE DURING COMBUSTION
NASA-TN-D-2256 N64-17751 09-26

PROPULSION, AERODYNAMICS, TURBULENT FLOW, AND COMBUSTION AT HYPERSONIC SPEEDS
N64-18719 11-27

HEAT OF COMBUSTION DETERMINATIONS OF ORGANIC BORON COMPOUNDS BY ROTATING-BOMB CALORIMETRIC METHOD
N64-18817 11-13

FLUID MECHANICS, TRANSPORT PROPERTIES, CHEMICAL REACTION KINETICS, AND COMBUSTION - SQUID PROJECT
AD-435879 N64-18851 11-24

COMBUSTION VIBRATION IN LIQUID FUEL ROCKET ENGINES AND JET ENGINES
FTD-TT-62-942/1&2 N64-18890 11-26

COMBUSTION AND HEAT TRANSFER PERFORMANCE OF STEAM BOILER - MULTIFUELED THERMAL-ENERGY CONVERSION SYSTEMS
QPR-NO. 6 N64-19056 11-06

FACTORS IN IGNITION AND COMBUSTION OF SECONDARY EXPLOSIVES
FTD-TT-63-325/1 N64-19215 11-26

RADIATION MEASUREMENTS OF COMBUSTION OF LIQUID OXYGEN JETS IN HIGH PRESSURE HYDROGEN ATMOSPHERE
NASA-TM-X-52023 N64-20576 13-26

FIXED-GEOMETRY TWO-DIMENSIONAL SUPERSONIC COMBUSTION RAMJETS
NASA-TM-X-52032 N64-20578 13-27

COMBUSTION RATE OF ATOMIZED FUEL IN TURBULENT FLOW
FTD-TT-62-1028/1&2&4 N64-21651 15-26

COMBUSTIBLE MANDREL FROM NITROCELLULOSE PAPER
PA-TM-1324 N64-21749 15-26

TEMPERATURE PROFILES FOR BURNING AMMONIUM PERCHLORATE
FTD-TT-64-327/1&2&4 N64-21976 15-07

THERMODYNAMICS, HEAT TRANSFER, AND COMBUSTION CHARACTERISTICS OF GASES
FTD-TT-63-922/1&4 N64-22357 15-13

VARIATION IN LENGTH OF COMBUSTION ZONE OF HOMOGENEOUS MIXTURE IN TURBULENT FLOW AS FUNCTION OF PRESSURE
FTD-TT-62-1744/1&2&4 N64-22395 15-26

RATE OF CHEMICAL REACTION AND EFFECT ON PROCESS OF DROPLET COMBUSTION
FTD-TT-63-653/1&2 N64-22654 15-07

KINETICS AND THERMODYNAMICS OF CHLORINE-HYDROGEN MIXTURE COMBUSTION
FTD-TT-62-1688/1&2 N64-23476 16-26

KINETICS OF THERMAL REACTION OF CHLORINE-HYDROGEN MIXTURE - COMBUSTION N64-23477 16-26

PRESSURE AND TEMPERATURE EFFECT ON FLAME REACTION RATE COEFFICIENT N64-23478 16-26

COMBUSTIBILITY OF LIP, HAIR, & FACE PREPARATIONS UNDER CONDITIONS OF INCREASED TEMPERATURE, HIGH OXYGEN CONTENT, AND IN PRESENCE OF STATIC SPARK
CARI-63-27 N64-23618 16-16

COMBUSTIBLE CATALYTIC REACTOR TO STUDY OXIDATION VAPOR AND AEROSOL OF ORGANIC COMPOUNDS
NRL-6040 N64-24082 16-23

PLASMA THEORY FOR ACOUSTIC COMBUSTION INSTABILITY
WSS/CI PAPER-64-13 N64-24377 17-26

FORMATION OF DETONATION WAVES IN COMBUSTIBLE GASEOUS MIXTURES
WSS/CI PAPER-64-15 N64-24378 17-26

TURBULENCE EFFECTS IN FLUID MIXING & COMBUSTION
AROD-2013-8 N64-24937 17-11

STABILITY OF COMBUSTION SYSTEM & TRANSPORT PROPERTIES OF GASES
NASA-CR-56933 N64-25555 17-26

NONSTEADY FLAME PROPAGATION
AGARDOGRAPH-75 N64-26003 18-26

THEORY OF FLAME PROPAGATION THROUGH COMBUSTIBLE GAS MIXTURE N64-26004 18-26

ENERGY SOURCES FOR COMBUSTION OSCILLATIONS - SYSTEM, TRANSITION, AND ACOUSTICAL INSTABILITIES
N64-26008 18-26

TRANSVERSE AND ORGAN-PIPE ACOUSTIC OSCILLATION IN COMBUSTION SYSTEMS N64-26009 18-26

SUPPRESSION AND USEFUL APPLICATIONS OF COMBUSTION OSCILLATIONS N64-26010 18-26

EVAPORATION, COMBUSTION, AND GAS DYNAMICS IN DISPERSION SYSTEMS
FTD-TT-63-944/1 N64-26213 18-07

DIFFUSION AND COMBUSTION OF HYDROGEN IN AIR AT SUPERSONIC SPEEDS N64-26328 18-11

SUPERSONIC COMBUSTION IN CYLINDRICAL CANAL
N64-26329 18-26

STABLE COMBUSTION IN WAKES FORMED IN SUPERSONIC STREAM N64-26331 18-11

ASTROPHYSICS AND QUANTITATIVE COMBUSTION

SPECTROSCOPY WITH REFERENCE TO RADIATIVE PROPERTIES OF HOT GASES N64-26339 18-26

DROPLET EVAPORATION AND COMBUSTION IN HYPERSONIC STREAM N64-26480 18-11

AXIAL COMBUSTION INSTABILITY STUDY FOR SOLID PROPELLANT ROCKET MOTOR DESIGN
CARDE-TN-1620/64 N64-26632 18-26

COMPRESSION TEMPERATURE EFFECT ON COMBUSTION IN DIESEL ENGINES
VR-4174 N64-26662 18-27

COMBUSTION IN DIESEL ENGINES
WR-1315 N64-26679 18-26

UNIDIMENSIONAL THEORY OF SUPERSONIC COMBUSTION
AFOSR-5260 N64-26739 18-26

OPTICAL TECHNIQUES FOR TEMPERATURE AND CONCENTRATION MEASUREMENTS OF COMBUSTION IN SUPERSONIC STREAMS
NASA-TN-D-2441 N64-27203 19-15

NONLINEAR COMBUSTION INSTABILITY IN LIQUID PROPELLANT ROCKET ENGINES
NASA-CR-56946 N64-27287 19-26

EXPLOSIVE COMBUSTION, PULSATING SHOCK-INDUCED COMBUSTION, AND RELATED STUDIES IN REACTION KINETICS, IGNITION DELAYS, AND SHOCK WAVES
ATD-P-64-49 N64-27342 19-26

COMBUSTION PROCESSES OCCURING IN IMPLOSION DRIVEN HYPERVELOCITY LAUNCHER COMBUSTION CHAMBER
UTIAS-TN-71 N64-27563 19-26

APPROXIMATE THERMODYNAMIC FUNCTIONS OF IONIC SPECIES IN HYDROCARBON FLAME SYSTEMS
TRG4-02D N64-27570 19-26

SPECTRAL EMISSIVITY OF FLASH COMBUSTION REACTIONS FOR LASER PUMPING
NA-64-608 N64-27615 19-26

HIGH FREQUENCY COMBUSTION OSCILLATIONS IN GASEOUS PROPELLANT ROCKET ENGINE N64-28096 20-26

PROPERTIES OF HIGH TEMPERATURE GASES AND FLUIDS, COMBUSTION AND PROPULSION PROCESSES, AND COMBUSTION STUDIES IN SOLID AND LIQUID PROPELLANT ROCKET ENGINES N64-28176 20-11

COMBUSTION STABILITY IN LIQUID PROPELLANT ROCKET ENGINES N64-28194 20-26

ABSTRACTS OF PAPERS PRESENTED AT CONFERENCE ON COMBUSTION
NASA-CR-58629 N64-28893 20-26

MECHANISMS OF DECOMPOSITION, COMBUSTION, AND DETONATION OF SOLIDS
REPT.-0372-01-17 N64-29431 21-26

EFFECTS OF HIGH CHAMBER PRESSURE, INJECTOR TYPE & SIZE, & THRUST CHAMBER LENGTH ON COMBUSTION STABILITY OF LIQUID PROPELLANT ROCKET ENGINES
NASA-CR-56672 N64-29706 21-27

CATALYTIC COMBUSTION HEAT SOURCES FOR THERMAL ENERGY CONVERTERS
F-82088 N64-29914 21-06

IGNITION AND COMBUSTION PROPERTIES OF ACTIVATED CARBON CONTAINING ADSORBED HYDROCARBONS FOR SUBMARINE AIR FILTERS
NRL-6090 N64-29955 21-26

COMBUSTION & FORMATION HEATS OF CRYSTALLINE BORON AND TRIMETHYLAMINEBORANE
AD-402335 N64-30679 22-07

ATMOSPHERIC CHEMILUMINESCENCE OF HYDROCARBON MISSILE EXHAUST - FIREFLY PROJECT N64-31399 23-12

CHEMICAL KINETICS OF COMBUSTION OF HOMOGENEOUS GAS MIXTURES IN LIQUID PROPELLANT ROCKET ENGINES
FTD-MT-64-272 N64-32241 23-26

CONBUSTION AND LOWERING OF COMPRESSION TEMPERATURE IN DIESEL ENGINE
QTSR-3 N64-32387 23-27

METHODOLOGY OF TOTAL KINETICS OF COMBUSTION OF GASES
FTD-MT-63-238 N64-32396 23-26

CATALYTIC COMBUSTION HEAT SOURCES USING LEADED GASOLINE BURNER FOR THERMAL ENERGY CONVERTERS
REPT.-3 N64-32601 23-06

CONTROL METHODS OF HIGH FREQUENCY COMBUSTION OSCILLATIONS IN HIGH THRUST LIQUID PROPELLANT ROCKET ENGINES
AD-449764 N64-32647 23-26

FIRE HAZARD INVESTIGATION OF COMBUSTIBLE MATERIALS IN SPACECRAFT PROPULSION COMPARTMENT
RPL-TDR-64-103 N64-32668 23-26

CONSTANT VOLUME METHOD FOR DETERMINING LAMINAR BURNING VELOCITY OF COMBUSTIBLE MIXTURES
REPT.-20 N64-32797 24-26

GAS DYNAMICS OF COMBUSTION
NASA-TT-F-231 N64-32841 24-26

LEAKAGE DETECTORS AND COMBUSTION FACTORS IN HYDROGEN SAFETY PRACTICES
PR-3 N64-33829 24-26

UTILIZATION OF ACOUSTICAL PROPERTIES OF SOLID PROPELLANTS TO DAMP OUT ACOUSTIC WAVES IN ROCKET COMBUSTION SYSTEMS
FTCE/41/3/64 N64-33896 24-26

COMBUSTION CHAMBER
RAMJET STRUCTURAL ELEMENTS, NONREGENERATIVELY COOLED COMBUSTION CHAMBERS & NOZZLES, AND HIGH TEMPERATURE COATED TUNGSTEN STRUCTURES
REPT.-25109 N64-13596 05-27

STATIC AND DYNAMIC PRESSURE MEASUREMENTS OF GAS COMBUSTION CHAMBERS
FTD-TT-63-23/162 N64-18997 11-26

VORTEX FLOW MULTIFUEL OPERATION OF HIGH-SPEED, TWO-STROKE, LOOP-SCAVENGED, AIR-COOLED, COMPRESSION-IGNITION COMBUSTION CHAMBER
AD-424504 N64-20157 13-26

CONTROL OF SECONDARY AIR JET IN COMBUSTION CHAMBERS OF GAS TURBINES
FTD-TT-62-1786/162 N64-21646 15-26

COMBUSTION CHAMBERS OF AVIA TURBINE ENGINE
FTD-TT-63-67/162 N64-22339 15-27

THERMODYNAMIC EQUILIBRIUM ON LIQUID ROCKET ENGINE COMBUSTION CHAMBER WALLS
FTD-TT-63-571/16264 N64-23629 16-01

DEFLECTIONS OF COMBUSTION CHAMBER SHELLS IN LIQUID ROCKET ENGINES N64-23630 16-26

LOCAL STABILITY OF LIQUID ROCKET ENGINE COMBUSTION CHAMBER INNER WALL N64-23631 16-26

LOCAL DEFLECTION IN SHELLS OF COMBUSTION CHAMBER OF LIQUID PROPELLANT ROCKET ENGINE N64-23632 16-23

THERMODYNAMIC ANALYSIS & HEAT CALCULATION IN HIGH VELOCITY COMBUSTION CHAMBER OF LIQUID PROPELLANT ROCKET ENGINE N64-23633 16-13

VALVE DESIGN, BEARING DRAG, SEAL, AND THRUST STUDIES FOR HIGH CHAMBER PRESSURE ENGINES
NASA-CR-56306 N64-23943 16-27

FLAME PROPAGATION IN TUBES AND SPHERICAL CHAMBERS N64-26007 18-26

MATHEMATICAL MODEL OF COMBUSTION PROCESS TO DETERMINE RELATIONSHIP BETWEEN CHAMBER WALL TEMPERATURE AND COMBUSTION DISTURBANCES

FTD-TT-64-616/1&2 N64-26818 18-26

CHAMBER ROTATION SPEED AND IGNITION POINT LOCATION EFFECTS ON COMBUSTION DURATION AND FLAME DURATION IN CYLINDRICAL FORCE FIELD
TR-2 N64-26856 18-26

EFFECT OF PARTICLE INTERNAL MOTION IN COMBUSTION CHAMBER AND JET NOZZLE ON PRINCIPAL VECTOR AND MOMENT OF REACTIVE FORCES
NASA-TT-F-9041 N64-27231 19-26

PRESSURE GAUGES, POTENTIOMETERS, & STRAIN GAUGES FOR COMBUSTION CHAMBER ANALYSIS
N64-28585 20-26

SWIRL ATOMIZER FOR FUEL INJECTION IN GAS TURBINE COMBUSTION CHAMBER N64-28586 20-26

HYPERGOLIC FUEL INJECTION IN ROCKET COMBUSTION CHAMBERS N64-28587 20-26

EFFECT OF INJECTOR ON MOTOR PERFORMANCE IN ROCKET ENGINE COMBUSTION CHAMBER N64-28588 20-26

INSTRUMENTATION AND CALIBRATION OF HYPERSONIC SHOCK TUNNEL - LOADING SYSTEM IN COMBUSTION CHAMBER
REPT.-64-5 N64-32802 24-10

COMBUSTION EFFICIENCY
IBM 704 FORTRAN COMPUTER PROGRAM TO DETERMINE COMBUSTION EFFICIENCY FOR HYDROGEN AND AIR SYSTEM
APL-TDR-64-69 N64-30009 21-26

COMBUSTION INSTABILITY
COMBUSTION INSTABILITY IN SOLID PROPELLANT MOTORS BY STRONG COMPRESSION WAVE FLOW
CARDE-TN-660/63 N64-11204 02-26

COMBUSTION INSTABILITY OF SOLID AND LIQUID PROPELLANT ROCKET ENGINES N64-16559 08-26

NONLINEAR COMBUSTION INSTABILITY IN ROCKET COMBUSTORS - LONGITUDINAL OSCILLATION
NASA-CR-53870 N64-19941 12-26

NONLINEAR COMBUSTION INSTABILITY IN LIQUID PROPELLANT ROCKET ENGINES
NASA-CR-56946 N64-27287 19-26

COMBUSTION INSTABILITY IN SOLID PROPELLANT ROCKET ENGINE - PULSE TECHNIQUE
CARDE-TR-487/64 N64-27743 19-26

COMBUSTION INSTABILITY IN SOLID PROPELLANT ROCKET ENGINES N64-28192 20-26

COMBUSTION INSTABILITY IN BIPROPELLANT FUELED ROCKET ENGINES N64-28195 20-26

LIMITING COMBUSTION INSTABILITY AND IMPROVING COMBUSTION STABILITY IN ROCKET ENGINES
N64-28584 20-26

RAMJET AND TURBOJET ENGINE COMBUSTION INSTABILITY
N64-28593 20-26

COMBUSTION INSTABILITY IN LIQUID PROPELLANT ROCKET ENGINES N64-28594 20-26

SOLID PROPELLANT ROCKET COMBUSTION INSTABILITY MEASURED BY ACCELEROMETER, OSCILLOSCOPE AND OSCILLOGRAPH N64-28595 20-26

SOLID PROPELLANT COMBUSTION INSTABILITY AND DEPENDENCE ON PROPELLANT COMBUSTION CHARACTERISTICS
AD-442392 N64-28646 20-26

NONLINEAR AXIAL COMBUSTION INSTABILITY IN SOLID PROPELLANT ROCKET MOTOR
CARDE-TR-474/64 N64-28787 20-26

FILM COOLING, NOZZLE EXPANSION, COMBUSTION INSTABILITY, AND ABLATIVE COOLING IN ROCKET THRUST CHAMBERS
REPT.-212/SA3-2.2-M-3 N64-32173 23-17

COMBUSTION PHYSICS
INTENSIFICATION OF HOMOGENEOUS COMBUSTION BY LOW FREQUENCY OSCILLATIONS - FORMATION AND BREAKDOWN OF VORTICES
FTD-MT-63-50/1&2 N64-18673 11-26

PHYSICS OF COMBUSTION AND EXPLOSION
IPST-640 N64-33510 24-26

COMBUSTION PRODUCT
THERMAL IONIZATION & ELECTRIC CONDUCTIVITY OF SOME COMBUSTION MIXTURES & PRODUCTS N64-11714 03-26

THERMODYNAMIC PROPERTIES OF BERYLLIUM CHLORIDE ROCKET COMBUSTION PRODUCTS
U-2352 N64-12240 03-26

NOZZLE THROAT REFRACTORY MATERIAL REACTION WITH SOLID AND GASEOUS COMBUSTION PRODUCTS
U-2403 N64-13986 05-27

SPECTRAL EMISSIVITY STUDY OF CHEMICAL FLASHES PRODUCED BY COMBUSTION REACTIONS
NA-64-105 N64-16984 09-26

THERMODYNAMIC PROPERTIES OF PROPELLANT COMBUSTION PRODUCTS - VAPORIZATION OF BORON AND ENTROPIES OF GASEOUS METAL HALIDES
U-2403/2 N64-18742 11-26

OPTICAL TECHNIQUES FOR TEMPERATURE AND CONCENTRATION MEASUREMENTS OF COMBUSTION PRODUCTS IN SUPERSONIC STREAMS
AIAA PAPER-64-536 N64-20472 13-26

COMBUSTION OF HUMAN WASTE AND PRODUCT RECOVERY BY CHLORELLA
TN-62-16 N64-21554 15-16

ATMOSPHERIC TRANSPORT AND DISPERSION OF ROCKET MOTOR COMBUSTION BY-PRODUCTS
MLPR-9 N64-24010 16-26

THERMODYNAMIC PROPERTIES OF ROCKET ENGINE COMBUSTION PRODUCTS
U-2666 N64-25343 17-13

COMPOSITION OF GAS FORMED DURING EXPLOSIVE COMBUSTION
FTD-TT-64-328/1 N64-26119 18-07

RADIOMETER-PYROMETER FOR MEASUREMENT OF ABSORPTION, EMISSION, AND TEMPERATURE OF GASEOUS COMBUSTION PRODUCTS
NASA-TN-D-2405 N64-27092 19-15

EQUILIBRIUM COMPOSITION AND THERMODYNAMIC PROPERTIES OF CYANOGEN-OXYGEN COMBUSTION PRODUCTS
NASA-TN-D-2422 N64-27924 20-26

ASSEMBLY OF BREADBOARD OPTICAL EQUIPMENT FOR SPECTROGRAPHIC DETERMINATION OF COMBUSTION PRODUCTS AND TEMPERATURE IN SOLID PROPELLANT COMBUSTION ZONES
PR-6 N64-31693 23-26

THERMODYNAMIC PROPERTIES OF PROPELLANT COMBUSTION PRODUCTS - PERFORMANCE PARAMETERS FOR COMPUTER PROGRAM
U-2289 N64-32125 23-26

OPTICAL SPECTRA OF LOW MOLECULAR WEIGHT COMPOUNDS FORMED IN EXHAUST GASES OF ROCKET MOTORS
IITRI-C6013-5 N64-32962 24-07

SOLID GAS AND LIQUID GAS CHROMATOGRAPHY IN COMBUSTION PRODUCT ANALYSIS
AD-602228 N64-33005 24-26

COMBUSTION WIND TUNNEL
PLANETARY ENTRY SIMULATION IN COMBUSTION HYPER-VELOCITY WIND TUNNEL N64-17018 09-10

COMBUSTOR
ENDURANCE TESTING FOR SPLASH-COOLED COMBUSTOR AND FOR CORROSION PROTECTION OF TURBINE BLADING ALLOYS
REPT.-851-63R N64-12936 04-26

EFFECT OF INTERCHANGING PROPELLANTS IN COAXIAL INJECTION ON ROCKET COMBUSTOR PERFORMANCE
NASA-TN-D-2169 N64-14986 06-27

NONLINEAR COMBUSTION INSTABILITY IN ROCKET COMBUSTORS - LONGITUDINAL OSCILLATION
NASA-CR-53870 N64-19941 12-26

COMET
POLARIMETRIC AND COLORIMETRIC STAR, COMET, AND GALAXY OBSERVATIONS OF THE BYURAKAN OBSERVATORY
N64-10026 01-05

POLARIMETRIC INVESTIGATION OF COMETARY NEBULA NGC 2261
N64-10030 01-05

COLORIMETRY OF COMETARY NEBULA NGC 2261
N64-10031 01-20

INTERPLANETARY MAGNETIC FIELDS AS CAUSE OF COMET TAILS
NASA-RP-48 N64-10289 01-29

OBSERVATIONS OF MINOR PLANETS, COMETS, ECLIPSING BINARY STARS, AND DOUBLE STARS - ORBIT MEASUREMENT
N64-10321 01-05

HYPOTHESIS ON TEKTITE ORIGIN BY COMET IMPACT WITH EARTH N64-14934 06-05

HISTORY, CHARACTERISTICS, AND PHYSICAL PROPERTIES OF COMETS N64-15286 07-05

PHOTOMETRY, DIMENSIONS, AND ABLATION RATE OF COMETS N64-15601 07-05

INFRARED RADIATION SPECTRUM OF COMETS
N64-23179 16-29

RELATION BETWEEN COMET-SHAPED NEBULA AND COMET-SHAPED INCLUSIONS IN DIFFUSED NEBULA - CELESTIAL MECHANICS N64-23181 16-29

COMPOSITION AND STRUCTURE OF ICY CONGLOMERATE COMET NUCLEI IN SOLAR NEBULA
NASA-RP-205 N64-24221 16-23

COMET STUDIES IN USSR N64-24654 17-05

COMET ACCUMULATION IN OUTER PARTS OF SOLAR SYSTEM
N64-24771 17-29

COMETARY ASTROPHYSICS
NASA-CR-54 N64-24826 17-29

CALCULATION OF LIFETIME OF ICE IN NUCLEI OF COMETS IN SOLAR RADIATION FIELD N64-25065 17-05

ORBITAL ELEMENTS AND PHYSICAL PROPERTIES OF PERIODIC COMETS
NASA-CR-58544 N64-28524 20-05

STRUCTURE AND DEVELOPMENT OF COMET TAILS - SODIUM EMISSION BRIGHTNESS AND STRUCTURE, IONIZATION, MOLECULAR LIFETIME, TAIL AXIS, AND COMET ALCOCK
AFCRL-64-646 N64-28544 20-05

PHOTODISSOCIATION EFFECTS ON DISTRIBUTION OF SURFACE BRIGHTNESS IN CARBON ATMOSPHERE OF COMETS
NASA-TT-F-8948 N64-30841 22-05

INTERACTION OF SOLAR WIND WITH COMETS
N64-31090 22-28

SCATTERING OF SOLAR RADIATION BY COMET OUTBURST PARTICLES
AFCRL-64-746 N64-31738 23-05

SPACE LIFETIMES IN PARENT MOLECULES OF COMET RADICALS ESTIMATED FROM ABSORPTION CROSS SECTIONS & SOLAR ULTRAVIOLET FLUX
NASA-RP-351 N64-33988 24-29

COMMAND SYSTEM
TELSTAR SATELLITE COMMAND AND TELEMETRY SYSTEMS
N64-10879 02-08

COMMAND SYSTEM MALFUNCTION OF TELSTAR SATELLITE DUE TO TRANSISTOR SURFACE DAMAGE IN REDUNDANT COMMAND DECODER N64-10897 02-08

CYCLOTRIMETHYLENE TRINITRAMINE FLEXIBLE LINEAR-SHAPED CHARGE FOR COMMAND DESTRUCT SYSTEM OF SATURN S-IV STAGE
NASA-CR-55071 N64-12099 03-30

SELECTION OF SIGNALS FOR SPACE VEHICLE COMMAND SYSTEM
NASA-CR-55086 N64-12157 03-08

DESIGN OF DIGITAL COMMAND SYSTEM FOR ROTATING SLAB SUN TRACKER
NASA-TM-X-51004 N64-12162 03-22

MODELING TECHNIQUES TO DESCRIBE AIR FORCE COMMAND AND CONTROL SYSTEMS
ESD-TDR-63-612 N64-13091 04-06

SATELLITE TRACKING, TELEMETRY, & COMMAND SYSTEMS
SSD-TDR-63-334, VOL. 1 N64-15062 07-08

AUTOMATED INFORMATION SYSTEMS IN PLANNING, CONTROL, AND COMMAND N64-15170 07-20

COMMAND STRUCTURE AND NOTATION SYSTEMS FOR FIVE SOVIET DIGITAL COMPUTERS
RM-3804-PR N64-16046 07-20

TELSTAR SATELLITE TELEMETRY AND COMMAND SYSTEMS
N64-16156 08-08

MECHANICAL DESIGN OF SATELLITE COMMAND SYSTEM ANTENNA ARRAYS
NASA-CR-55806 N64-18108 10-06

MILITARY COMMAND AND CONTROL SYSTEM PLANNING - PROFILES OF FUTURE WORLDS
HI-285-RR, VOL. 1 N64-18251 10-01

MILITARY COMMAND AND CONTROL SYSTEMS PLANNING - NATIONAL SECURITY POLICIES
HI-285-RR, VOL. 2 N64-18252 10-01

MILITARY COMMAND AND CONTROL SYSTEMS PLANNING - POLITICAL WAR GAMES
HI-285-RR, VOL. 3 N64-18253 10-01

TECHNIQUES FOR IMPROVING METHODS OF EXERCISING AND EVALUATING COMMAND AND CONTROL SYSTEMS - MATHEMATICAL MODELS
ESD-TDR-64-195 N64-18374 10-06

RADIO ANTENNA ARRAY FOR SATELLITE COMMUNICATION AND CONTROL - COMMAND SYSTEM
NASA-CR-55807 N64-19978 12-09

WEAPONS SYSTEM COMMAND AND CONTROL SYSTEMS - DEPLOYMENT, RETALIATION, UNMANNED MISSILE SITES, AND WEAPON SYSTEMS COSTS N64-24854 17-20

LOW POWER MAGNETIC COMMUTATOR FOR DIGITAL SYSTEM OF MULTIPLE CONTROL OF PRODUCTION PROCESSES
N64-30231 22-09

COMPARISON OF CONTINUOUS WAVE RANGING SYSTEMS FOR SATELLITE TRACKING, TELEMETRY, AND COMMAND SYSTEMS
SSD-TDR-63-334, VOL. 2 N64-30530 22-08

SERIAL AND PARALLEL FILE STRUCTURES WITH MAGNETIC TAPE AND DISK STORAGE FOR COMMAND AND CONTROL DATA PROCESSING SYSTEMS
ESD-TDR-64-519 N64-30970 22-20

COMMERCIAL AIRCRAFT
COMMERCIAL AIRCRAFT ACCIDENT INVESTIGATION - CRASH OF NORTHWEST AIRLINES FLIGHT 293, JUNE 3, 1963
N64-19809 12-22

OZONE CONCENTRATIONS IN PRESSURIZED CABINS OF COMMERCIAL JET AIRCRAFT ABOVE 25,000 FEET
FAA-ADS-5 N64-20444 13-21

DEVELOPMENTS IN USSR MILITARY AND COMMERCIAL AIRCRAFT DESIGN
JPRS-24731 N64-20820 14-01

STOL AIRCRAFT FOR USE AS COMMERCIAL SHORT HAUL

TRANSPORT
AIAA PAPER-64-285 N64-23350 16-04

COMMUN-CAT-ON
LONG-DISTANCE VERY HIGH FREQUENCY TRANSMITTING AND RECEIVING COMMUNICATION GROUND ANTENNA ARRAY N64-10260 01-09

SIMULATION OF COMMUNICATION CAPABILITY BETWEEN AIRCRAFT OR AIRCRAFT AND GROUND STATION
ESD-TDR-63-493 N64-21550 15-10

COMMUNICATION
SA SATELLITE COMMUNICATION
SA SPACE COMMUNICATION
SA TELECOMMUNICATION
PHOTOTELEGRAPHIC APPARATUS FOR WEATHER MAP RECEPTION, AND OCEAN BOTTOM RELIEF RECORDING USING FATHOMETER
JPRS-17712 N64-10486 01-21

EFFECT OF SCIENTIFIC DEVELOPMENTS ON TRANSPORTATION, COMMUNICATION, POWER RESOURCES, AND CONSTRUCTION INDUSTRIES N64-11514 03-01

COMMUNICATION CHANNEL BETWEEN THE LABORATORY, INDUSTRY, AND THE COMMUNITY TO SOLVE SOCIOECONOMIC PROBLEMS N64-11517 03-03

CYBERNETICS IN PEDAGOGY AND COMMUNICATIONS
JPRS-23187 N64-15166 07-01

EFFECT OF SOLAR DISTURBANCES ON RADIO COMMUNICATIONS
AGARDOGRAPH-59 N64-15426 07-08

IONOSPHERIC POLAR BLACKOUTS AND RADIO COMMUNICATIONS DISTRUBANCES N64-15429 07-12

INFLUENCE OF SOLAR FLARES ON TRANSARCTIC HIGH FREQUENCY RADIO PROPAGATION N64-15434 07-08

INFLUENCE OF SOLAR DISTURBANCES ON MULTIFREQUENCY PULSE TRANSMISSIONS AND SIMULTANEOUS BACKSCATTER OBSERVATIONS N64-15443 07-28

HIGH FREQUENCY RADIO PROPAGATION DISTURBANCES OVER NORTH ATLANTIC PATH N64-15449 07-08

CIRCUIT RELIABILITY, FREQUENCY UTILIZATION, AND FORECASTING IN HIGH FREQUENCY COMMUNICATIONS BAND N64-15450 07-08

TELEMETRY, COMMUNICATIONS, GUIDANCE, TRACKING, AND ELECTRONICS FOR SPACE APPLICATIONS N64-16151 08-08

SHIP-BASED COMMUNICATIONS AND TRACKING ANTENNAS N64-16169 08-10

APOLLO PROJECT LUNAR EXPLORATION COMMUNICATIONS AND TRACKING N64-16176 08-08

LOCATION AND MAINTENANCE OF ANTENNAS ON LUNAR SURFACE FOR DIRECT COMMUNICATION WITH EARTH N64-16179 08-09

VERY LOW FREQUENCY INTERPLANETARY COMMUNICATIONS N64-16181 08-08

HUMAN EFFICIENCY, PERFORMANCE, AND COMMUNICATION DURING FLIGHTS OF VOSTOK III AND VOSTOK IV N64-16399 08-14

PHILOSOPHY OF COMMUNICATION N64-17538 09-08

OPTICAL COMMUNICATIONS FROM DEEP SPACE
NASA-CR-55815 N64-17692 09-08

COMMUNICATION BIOPHYSICS - HEARING N64-17884 10-16

IMPACTS AND DAMPING PROBLEMS IN FAST MINIATURE TELEGRAPH RELAYS N64-19529 12-09

ELECTRICAL SYNCHRONIZER - DEVICE FOR MULTICHANNEL TRANSMISSION OF INDEPENDENT TELEGRAPH SIGNALS
QPR-3 N64-20542 13-09

NASA PROGRAM ON COMMUNICATIONS AND ELECTRONICS N64-21050 14-08

ENGINEERING TEST AND STANDARDIZATION OF TELEPHONE TELEGRAPH CARRIER
AD-431668 N64-21841 15-09

TERMINAL SITES FOR TRANSOCEANIC DUCT PROPAGATION MEASUREMENTS
AFCRL-63-862, PT. II N64-21908 15-08

EXTRASENSORY PERCEPTION - HUMAN COMMUNICATION WITH ANIMALS
FTD-TT-62-1876/1 N64-21928 15-16

DATA ACQUISITION & TRACKING ANALYSIS OF X-20 AIRCRAFT COMMUNICATIONS & TRACKING SUBSYSTEM
CR-64-408-28-1 N64-21985 15-08

COMMUNICATION BETWEEN MAN AND OTHER SPECIES - DOLPHIN STUDIES
NASA-CR-56530 N64-22791 16-16

WIRE MESH LENS ANTENNA FOR HIGH FREQUENCY COMMUNICATIONS
RD-64-38 N64-23239 16-09

BIOLOGICAL COMMUNICATIONS RESEARCH - COMMUNICATION BETWEEN DOLPHINS
NASA-CR-53228 N64-23391 16-16

SPACECRAFT COMMUNICATION TRANSPONDER POWER AMPLIFIER
NASA-CR-56287 N64-23948 16-09

COMMUNICATION BLACKOUT OF BLUNT BODY DURING ENTRY INTO MARS ATMOSPHERE
NASA-CR-56459 N64-24039 16-29

FEASIBILITY OF USING PRESENT RADIO ASTRONOMY AND RADIOPHYSICS TECHNIQUES FOR EXTRATERRESTRIAL LIFE COMMUNICATION
JPRS-25307 N64-24488 17-08

DESIGN OF BANDLIMITED SIGNALS FOR BINARY COMMUNICATION USING SIMPLE CORRELATION DETECTION
TR-400-90 N64-26209 18-08

SIGNAL PROCESSING BY INFINITE CLIPPING FOR IMPROVED COMMUNICATION AGAINST NOISE OR JAMMING
AD-600863 N64-26556 18-08

RADIO PHYSICS, PLASMA DYNAMICS, AND COMMUNICATIONS SCIENCES AND ENGINEERING STUDIES
QPR-73 N64-26561 18-01

INSTRUMENTATION, OPERATION, AND PERFORMANCE OF ACTIVE SEISMIC SYSTEMS FOR COMMUNICATION OR SURVEILLANCE
USAELRDL-TR-2446 N64-26585 18-15

RADIO COMMUNICATION WITH SPACE ROCKET
JPRS-25847 N64-27064 19-01

HETERODYNE SIGNAL DETECTION IN OPTICAL COMMUNICATION
RADC-TDR-64-130 N64-27426 19-08

ELECTROMAGNETIC THEORY - DIFFRACTION, WAVE GUIDES, RADIATION AND COMMUNICATIONS
AFCRL-64-384 N64-27647 19-08

LINEAR GRAPH ANALYSIS OF ACTIVE AND PASSIVE NETWORKS - APPLICATION TO SWITCHING AND COMMUNICATION NETWORKS
R-203 N64-28006 20-09

LOW-COST TWO-DIMENSIONAL GRAPHIC INPUT TABLET AND STYLUS FOR MAN-MACHINE GRAPHICAL COMMUNICATIONS
RM-4122-ARPA N64-28464 20-09

CODING TECHNIQUES FOR ERROR DETECTION AND CORRECTION IN LONG RANGE COMMUNICATION
USAELRDL-2450 N64-28635 20-08

RADIO PHYSICS, PLASMA DYNAMICS, AND COMMUNICATION SCIENCES AND ENGINEERING
AD-603870 N64-29998 21-23

COMFORT PROBLEMS RELATED TO SPACECRAFT COMMUNICATIONS EQUIPMENT
AD-442828 N64-32377 23-16

COMMUNICATION SYSTEM
UTILIZATION OF COMMUNICATION SYSTEMS AND TELEMETRY IN HOSPITALS
JPRS-17534 N64-11004 02-16

DISCUSSION OF TELSTAR SATELLITE COMMUNICATION COMPONENTS AND SYSTEMS
NASA-SP-32, VOL. 3 N64-11079 02-01

LASER APPLICATIONS - AMPLIFIER, POWER GENERATOR, & DETECTOR FOR COMMUNICATIONS & RADAR SYSTEMS
N64-12565 04-25

WIDEBAND MICROWAVE PHOTOTUBE FOR LASER COMMUNICATIONS SYSTEMS N64-12568 04-25

AIR-TO-AIR & GROUND-TO-AIR MICROWAVE PROPAGATION STUDIES FOR AIRBORNE COMMUNICATION SYSTEM
AD-424617 N64-13113 04-09

PERFORMANCE OF LASER OPTICAL COMMUNICATION SYSTEM FOR USE WITH ECHO SATELLITE N64-13427 05-25

CODE SYNCHRONIZATION TECHNIQUES FOR COMMUNICATION SYSTEMS
TDR-269/4111/-9 N64-13890 05-08

DESIGNATIONS AND ABBREVIATIONS OF SOVIET COMMUNICATIONS NETWORKS
AID-P-63-123 N64-13967 05-01

STATISTICS OF VISIBILITY IN SATELLITE COMMUNICATION SYSTEMS
REPT.-36G-7 N64-14006 05-29

TROPOSPHERIC COMMUNICATIONS SYSTEM PERFORMANCE PREDICTION
NBS-TN-103 N64-14796 06-08

OPTICAL AND RADIO FREQUENCY COMMUNICATIONS SYSTEMS
N64-15470 07-08

RANDOM ACCESS STATIONARY SATELLITE RELAY COMMUNICATION SYSTEM
PCE-R-1152-0020A N64-16163 08-08

INTERPLANETARY FLIGHT COMMUNICATION SYSTEMS
N64-16182 08-08

ELECTRO-OPTICAL SYSTEMS FOR DEEP SPACE COMMUNICATIONS LINKS
NASA-CR-55813 N64-16727 08-23

OPTICAL COMMUNICATIONS SYSTEM FOR DEEP SPACE VEHICLE TO EARTH LINK
NASA-CR-55812 N64-16770 08-08

OPTIMUM TIME DURATION FOR PULSE TRANSMISSIONS FOR MULTIPATH CHANNELS
REPT. 64G-3 N64-17454 09-08

ARTIFICIAL INTELLIGENCE - SYSTEM FOR INSTRUCTING COMPUTER AND PROGRAMMING LANGUAGE FOR MANIPULATING SYMBOLIC EXPRESSIONS N64-17881 10-20

PERFORMANCE PREDICTIONS FOR LONG DISTANCE TROPOSPHERIC COMMUNICATION CIRCUITS IN TANDEM
NBS-TN-102 N64-17996 10-08

CODING AND DECODING TIME-DISCRETE AMPLITUDE-CONTINUOUS MEMORYLESS CHANNEL
RLE-TR-399 N64-18366 10-20

VOICE COMMUNICATIONS SYSTEM USING LIGHT BEAMS
NASA-SP-5005 N64-18503 10-08

NONADJUSTED RELAY FOR CODING AND COMMUNICATIONS SYSTEMS N64-19535 12-09

RELIABILITY AND MAINTAINABILITY OF RADAR COMMUNICATIONS SYSTEM IN EXTENDED DEPLOYMENT
ESD-TDR-64-198 N64-19661 12-10

DESCRIPTION OF TRANSPONDERS IN SATELLITE COMMUNICATIONS SYSTEMS
TDR-269/4110-01/-13 N64-19820 12-08

FORMATION OF GLOBAL SURVEILLANCE AND COMMUNICATION NETS OF SATELLITES AND GROUND STATIONS
TDR-269/4513-10/-5 N64-19821 12-08

RADIO FREQUENCY REJECTION FILTER FOR CONTINUOUS WAVE INTERFERENCE IN COMMUNICATION SYSTEMS
RADC-TDR-64-104 N64-20033 13-09

AUDIO PULSE CANCELLATION FILTER - RADIO FREQUENCY COMMUNICATION APPLICATION
RADC-TDR-64-105 N64-20034 13-08

TWO-WAY FEEDBACK COMMUNICATION SYSTEM WITH INFORMATION REPEATS - CONTINUOUS SEQUENTIAL DECODING
ESD-TDR-63-593 N64-20114 13-08

COMMUNICATION SYSTEM - MEASUREMENTS OF ANTENNA COUPLING FACTORS
REPT. 04957-8-F N64-20355 13-08

DISTRIBUTED MULTICHANNEL COMMUNICATIONS SYSTEM FOR REMOTE CONTROL AND TELEMETRY
CERN-64-21 N64-20443 13-08

DESIGN OF COMMUNICATION SYSTEMS UTILIZING SATELLITES AS RELAY POINTS
P-2785 N64-20511 13-08

DATA TRANSMISSION DELAY IN COMMUNICATION NETWORKS
AD-427258 N64-20528 13-08

SPECIFICATIONS FOR PROTOTYPE TRANSMITTERS AND RECEIVERS FOR FALLOUT SHELTER COMMUNICATION SYSTEM
TGGM-642 N64-21338 14-08

PREDICTING EFFECTS OF NUCLEAR EXPLOSIONS UPON HIGH FREQUENCY COMMUNICATION SYSTEMS
AD-434554 N64-22196 15-08

DEEP SPACE OPTICAL COMMUNICATIONS SYSTEM
N64-22447 15-08

AIR-TO-AIR AND GROUND-TO-AIR RADIO PROPAGATION AND TRANSMISSION
REPT.-6 N64-22525 15-08

DIRECTIONAL RADIO ANTENNAS USED FOR TRANSMISSION AND RECEPTION OF RADIO SIGNALS AND COMMUNICATIONS AT VERY HIGH FREQUENCIES
FTD-TT-62-1426/1626364 N64-22624 15-08

COAXIAL DOUBLE-SLOTTED MEASURING LINE FOR VOLTAGE STANDING WAVE RATIO MEASUREMENT - COMMUNICATION SYSTEM
FTD-TT-64-6/1 N64-22666 15-08

ERROR ANALYSIS OF RADIO FREQUENCY INTERFERENCE IN DIGITAL TWO-PHASE COHERENT COMMUNICATION SYSTEMS
N64-22814 16-09

GROUND AND AIRBORNE SIGNAL TRANSMISSION - COMMUNICATION SYSTEM N64-23627 16-04

NONLINEAR NOISE TRANSMISSION IN FREQUENCY-DIVISION MULTIPLEX TELEPHONY OVER SSB-PM SATELLITE COMMUNICATION SYSTEM
NASA-TN-D-2365 N64-23920 16-09

RESTORATIVE PRINCIPLES FOR WIDEBAND COMMUNICATION SYSTEMS
ICS-63-TR-201 N64-24089 16-08

PULSE TRANSFER FUNCTIONS IN COMPLEX COMMUNICATION TWO-CHANNEL CONTINUOUS SIGNAL SYSTEM
N64-24703 17-09

COMMUNICATIONS SYSTEMS ENGINEERING IN BUSINESS MANAGEMENT N64-24853 17-08

DATA COMMUNICATIONS COMPUTER SYSTEM DESIGN
N64-24855 17-08

HIGH POWER COMMUNICATIONS SATELLITE POTENTIAL - COST REDUCTION AND LIFETIME EXTENSION
N64-24858 17-08

OVERSEAS COMMERCIAL COMMUNICATIONS SATELLITE SYSTEMS- 1965 TO 1975 N64-24859 17-08

AIRBORNE ELECTRONIC EQUIPMENT FOR X-20A AIRCRAFT COMMUNICATIONS AND TRACKING SUBSYSTEM
CR-64-408-34.2-1 N64-25129 17-08

COMMUNICATIONS AND TRACKING SUBSYSTEM FOR X-20A AIRCRAFT
CR-64-408-35-1 N64-25366 17-04

DEEP SPACE NETWORK PRECISION COMMUNICATION SYSTEM FOR SPACECRAFT CONTROL
NASA-CR-56786 N64-25676 17-08

FLIGHT TEST OF DYNA-SOAR SPACE GLIDER TRACKING AND COMMUNICATION SUBSYSTEMS - X-20 AIRCRAFT
CR-64-408-34.1-1 N64-25746 17-08

MICROWAVE TRANSMITTERS, ANTENNA, AND TRACKING RECEIVERS OF DYNA-SOAR SPACE GLIDER COMMUNICATION SYSTEM
CR-64-408-34.3-1 N64-25747 17-08

DIPLEXER USING SIDE-WALL COUPLERS AND CUT-OFF GUIDE - COMMUNICATION SYSTEM
ESD-TDR-64-52 N64-25980 18-08

GLOBAL COMMUNICATIONS NETWORK UTILIZING ORBITING DIPOLES AS SCATTERING MEDIUM
RADC-TDR-64-187, VOL. I N64-26170 18-08

WEST FORD ORBITAL SCATTER COMMUNICATIONS SYSTEM
ESD-TDR-63-591 N64-26266 18-08

SYSTEMS ANALYSIS, MECHANICS, GUIDANCE AND CONTROL, PROPULSION, AND COMMUNICATION SYSTEM STUDIES
NASA-CR-58131 N64-26369 18-29

LASER, OPTICAL DETECTOR, AND MODULATION SYSTEMS FOR DEEP SPACE OPTICAL COMMUNICATION STUDY
NASA-CR-73 N64-26667 18-08

NOISE IMMUNITY OF COMMUNICATION SYSTEMS WITH ERROR CORRECTING FEEDBACK CHANNELS
JPRS-25853 N64-27065 19-08

ACCURACY OF ROUTINE PROPAGATION MEASUREMENTS ON TROPOSCATTER LINKS IN COMMUNICATION NETWORK
TM-90 N64-27099 19-08

RELIABLE COMMUNICATION SYSTEM FOR AIR TRAFFIC CONTROL IN NORTH ATLANTIC
RD-64-7 N64-27267 19-08

MICROWAVE TRANSPORTABLE SATELLITE COMMUNICATION LINK TERMINAL
FR-64-19-87 N64-27421 19-10

POLARIZATION PROGRAMMING IN TROPOSPHERIC SCATTER PROPAGATION COMMUNICATION SYSTEM
RADC-TDR-64-258, VOL. II N64-27427 19-08

SIGNAL TO NOISE RATIO REQUIREMENTS FOR MILITARY COMMUNICATION SYSTEMS OPERATING IN HIGH FREQUENCY BAND
TR-4 N64-27526 19-08

TRANSMISSION OF ENCODED INFORMATION IN DISCRETE COMMUNICATIONS SYSTEMS
JPRS-25674 N64-28018 20-08

MATHEMATICAL MODEL FOR ANTIJAMMING SCHEMES OF COMMUNICATION SYSTEMS - ERROR ANALYSIS FOR TWO METHODS OF COHERENT DETECTION
SSD-TDR-64-74 N64-28162 20-08

SIGNAL ENHANCEMENT IN NOISY COMMUNICATION SYSTEM - INSTANTANEOUSLY-RESPONDING EXPANSION AMPLIFIER
ESD-TDR-64-506 N64-28540 20-08

ANTENNA HEIGHT DIVERSITY FOR IONOSPHERIC SCATTERING COMMUNICATION SYSTEM
TM-92 N64-28823 20-08

DEEP SPACE NETWORK - PRECISION CONTROL AND COMMUNICATION SYSTEM FOR SPACECRAFT
NASA-CR-58556 N64-29356 21-08

OSCILLATOR STABILITY IN COMMUNICATION AND RADAR SYSTEMS
TDR-269/9990/-9 N64-29822 21-09

IMPULSE NOISE INTERFERENCE IN COMMUNICATIONS CHANNELS - INTEGRAL FUNCTION DEFINITION OF STOCHASTIC PROCESS
RR-63-3 N64-30748 22-08

COMPOSITE CODES FOR SYNCHRONIZATION OF CODED AND COHERENT COMMUNICATION SYSTEMS
SSD-TDR-64-102 N64-30985 22-08

LASER DEEP SPACE /INTERPLANETARY/ COMMUNICATION SYSTEM N64-31014 22-08

CHAFF UTILIZED FOR BEYOND LINE-OF-SIGHT COMMUNICATION SYSTEM
AD-420192 N64-31196 22-08

MODULATION, ANTENNA, ACQUISITION AND TRACKING, AND LOW-NOISE RECEIVING SYSTEMS FOR TRANSPORTABLE GROUND STATION IN SPACE COMMUNICATION SYSTEM
REPT.-64-15 N64-31427 23-10

PROPERTIES AND SIMILARITIES OF LOSSY COMMUNICATION NETS
R-200 N64-31678 23-08

POWER DISTRIBUTION LAYOUT FOR HIGH RELIABILITY, QUADRUPLE DIVERSIFIED COMMUNICATION SYSTEM STATION
AD-601253 N64-32056 23-08

MODIFICATIONS OF AIR TRAFFIC CONTROL AND COMMUNICATION SYSTEM
ESD-TDR-64-251 N64-32107 23-08

HUMAN FACTORS PROBLEMS OCCURRING DURING TESTING OF AIR TRAFFIC CONTROL/COMMUNICATIONS SYSTEMS
REPT.-353-R-6 N64-32162 23-08

EFFECT OF ATMOSPHERIC TURBULENCE ON LASER COMMUNICATIONS SYSTEM, OPTICAL WAVE FRONT DISTORTION, ANGULAR SCINTILLATION, AND PHASE AND AMPLITUDE CORRELATION FUNCTIONS
SID-64-1894-2 N64-32756 24-08

EFFECT OF ATMOSPHERIC TURBULENCE ON LASER COMMUNICATION SYSTEMS
TM-91 N64-32757 24-08

LONG RANGE COMMUNICATION BY REFLECTIONS FROM ORBITING METALLIC FIBERS - WEST FORD PROJECT
AD-443271 N64-32868 24-08

ELECTRONIC DATA SWITCHING INSTALLATION WITH REAL TIME COMMUNICATION
NASA-TM-X-55071 N64-33077 24-10

BEHAVIOR OF DISTRIBUTED COMMUNICATIONS NETWORKS UNDER LOADING CONDITIONS - MATHEMATICAL MODEL AND DETERMINISTIC EQUATION
RM-3578-PR N64-33228 24-08

DIGITAL DATA COMMUNICATIONS SYSTEM BASED ON DISTRIBUTED NETWORK - TRAFFIC PRECEDENCE AND OVERLOAD - RAND PROJECT
RM-3638-PR N64-33229 24-08

DIGITAL DATA COMMUNICATIONS SYSTEM BASED ON DISTRIBUTED NETWORK - HIGH DATA RATE SWITCHING MODE DESIGN - RAND PROJECT
RM-3763-PR N64-33230 24-08

COST ESTIMATE OF DIGITAL DATA COMMUNICATION SYSTEMS
RM-3766-PR N64-33232 24-08

DATA TRANSMISSION COMMUNICATION SYSTEM - ERROR CONTROL THROUGH CODING
RADC-TDR-64-149, VOL. I N64-33537 24-08

DATA TRANSMISSION COMMUNICATIONS SYSTEM - RESIDUE CODES FOR ERROR CONTROL
RADC-TDR-64-149, VOL. IV N64-33540 24-08

COMPARISON OF DISTRIBUTED COMMUNICATIONS NETWORK TO HIERARCHIAL SYSTEMS FOR SURVIVABILITY DURING

ENEMY ATTACKS AGAINST NODES AND LINKS
RM-3420-PR N64-33596 24-08

SPACE PROGRAM SUMMARIES - RANGER PROJECT, SURVEYOR PROJECT, MARINER PROJECT, DEEP SPACE COMMUNICATION SYSTEM, AND SPACE INSTRUMENT DEVELOPMENT
NASA-CR-59340 N64-33813 24-32

COMMUNICATION THEORY
CF INFORMATION THEORY
SIGNAL REDUCTION INTO LIMITED SPECTRAL FUNCTIONS IN COMMUNICATION THEORY
JPRS-18510 N64-11057 02-08

RADIO PHYSICS & PLASMA DYNAMICS IN COMMUNICATIONS THEORY
AD-424620 N64-12371 03-09

APPARATUS FOR GROUP DECISION MAKING AND COMMUNICATIONS PATTERNS UNDER CONDITIONS OF STRESS AND OVERLOAD
AD-428615 N64-14624 06-33

MODEL FOR BANDLIMITED QUANTUM COMMUNICATIONS CHANNEL AND INVESTIGATION OF ITS CAPACITY IN ABSENCE OF EXTERNAL THERMAL NOISE
AFCRL-64-3 N64-15808 07-08

DECISION MAKING, COMMUNICATION THEORY, AND SPACE COMMUNICATIONS N64-17200 09-08

RADIOPHYSICS, PLASMA DYNAMICS, AND COMMUNICATIONS THEORY
QPR-72 N64-17876 10-01

GENERALIZATION OF SUPERPOSITION PRINCIPLE OF STATISTICAL COMMUNICATION THEORY & INVESTIGATION OF CLASS OF NONLINEAR SYSTEMS N64-17878 10-08

PERCEPTION AND RECOGNITION WITH RESPECT TO COMMUNICATIONS THEORY - HANDWRITING SIMULATION N64-17879 10-20

ANALYSIS AND SYNTHESIS OF SPEECH, AND USE OF PROCEDURES FOR STUDYING HUMAN SPEECH PROCESSES N64-17882 10-16

PROPERTIES OF NETWORKS & BI-COMPLETE GRAPHS - COMMUNICATION NETWORK THEORY
R-174 N64-19401 12-20

FACTORS AFFECTING RELIABILITY AND EFFICIENCY OF COMMUNICATIONS CHANNELS - COMMUNICATION THEORY
AFCRL-64-12 N64-21245 14-08

DEGRADATION IN INFORMATION CONTENT OF SURVEILLANCE AND COMMUNICATION SIGNALS TRANSMITTED THROUGH PLASMA SHEATH
RADC-TDR-63-548 N64-22275 15-24

APPROXIMATION PROBLEMS IN SIGNAL DESIGN
NASA-CR-58495 N64-28942 20-08

PSEUDORANDOM SIGNAL CODES IN COMMUNICATIONS
NASA-CR-58240 N64-28965 20-08

INTERWORD CORRELATION OF AMOUNT OF INFORMATION CONTAINED IN A COMMUNICATION N64-29737 21-20

COMMUNICATION THEORY - SEQUENTIAL DETECTION OF SIGNALS IN NOISE
RADC-TDR-64-195 N64-29026 21-08

COMMUNICATIONS DEVICE
PLANNING, OPERATION, AND EXTERNAL COMMUNICATIONS OF ANDOVER GROUND STATION N64-10891 02-10

PSYCHOPHYSICAL EXPERIMENTS ON TACTILE STIMULATION BY SMALL AIR JETS TO DETERMINE PARAMETERS FOR DESIGN OF TACTILE COMMUNICATION DEVICE
ASD-TDR-63-732 N64-14689 06-16

USE OF LASERS AS COMMUNICATIONS DEVICES N64-15469 07-25

SOLID STATE COMMUNICATIONS DEVICES
RADC-TDR-63-521 N64-17647 09-09

DRIVING MECHANISM AND TRANSMITTING & RECEIVING SETS OF 60-PAGE TELETYPE - COMMUNICATION DEVICE
JPRS-23836 N64-18317 10-08

CAPABILITY OF COMMUNICATIONS AND GROUND POWER EQUIPMENT TO OPERATE UNDER COLD WEATHER CONDITIONS
TAC-TR-63-73 N64-19863 12-08

AUDIO PULSE CANCELLATION FILTER - RADIO FREQUENCY COMMUNICATION APPLICATION
RADC-TDR-64-105 N64-20034 13-08

LASER TECHNOLOGY RELATED TO LIGHT GENERATION, MODULATION, AND DETECTION FOR AIRWAYS COMMUNICATION SYSTEMS
ICS-64-TR-379 N64-22237 15-25

ADVANCED ELECTRONIC CONCEPTS IN LAUNCH VEHICLE OPERATIONS - LIGHT BEAMS AS INFORMATION CARRIERS
NASA-TM-X-54747 N64-33225 24-10

COMMUNICATIONS SATELLITE
DESIGN REQUIREMENTS FOR COMMUNICATIONS SATELLITE SYSTEMS OF RANDOM OR STATIONARY ORBITS
NASA-CR-52393 N64-10618 01-08

LENS-REFLECTOR COMMUNICATIONS SATELLITE MODEL
GER-11123 N64-12189 03-32

ORBITAL AND CONTROL MECHANICS OF SYNCOM COMMUNICATIONS SATELLITES
IAC PAPER-82 N64-12350 03-32

OPTIMIZATION OF 24-HOUR COMMUNICATION SATELLITE ORBITAL CONTROL PROCESS
RM-3255-NASA N64-12953 04-30

RELAY COMMUNICATIONS SATELLITE LAUNCHING ABOARD DELTA ROCKET N64-13202 04-32

ECHO II COMMUNICATIONS SATELLITE LAUNCHING N64-13203 04-32

LENS REFLECTOR ELEMENT FOR PASSIVE COMMUNICATIONS SATELLITE
ASD-TDR-63-781 N64-14321 06-32

INTERFERENCE SIGNAL POWER INPUT TO JAM OR REDUCE PERFORMANCE OF SATELLITE REPEATER
SSD-TDR-63-203 N64-14344 06-08

COURIER COMMUNICATIONS SATELLITE PROGRAM
WDL-TR-1399 N64-14702 06-32

SYNCHRONIZATION FOR DIGITAL COMMUNICATION VIA SATELLITE N64-16161 08-08

CONTROL SYSTEM USING SOLAR FLUX AS FORCE TO CHANGE ORBITAL PARAMETERS OF PASSIVE COMMUNICATIONS SATELLITE
NASA-CR-53578 N64-18440 10-30

PARAMETRIC ANALYSIS OF MEDIUM ALTITUDE ACTIVE AND PASSIVE SATELLITE COMMUNICATION SYSTEMS
ICS-63-TR-250 N64-19971 12-32

COST & PRICE ESTIMATE RELATING TO COMMUNICATIONS SATELLITES
P-2753-1 N64-20273 13-08

DESIGN OF COMMUNICATION SYSTEMS UTILIZING SATELLITES AS RELAY POINTS
P-2785 N64-20511 13-08

SPACE LAW AND COMMUNICATIONS SATELLITES, FREE SPACE LOWER BOUNDARY, CONTROL OF SPACE, ORBITAL REGULATION, AND INTERNATIONAL COOPERATION
NASA-SP-44 N64-21136 14-01

MONOPOLY AND ANTITRUST ASPECTS OF COMMUNICATIONS SATELLITE OPERATIONS - SPACE LAW N64-21141 14-01

REGULATION IN ORBIT - ADMINISTRATIVE ASPECTS OF COMMUNICATIONS SATELLITE ACT AND SPACE LAW N64-21142 14-01

PROBLEMS OF SPACE LAW AND POLICY RESULTING FROM COMMUNICATIONS SATELLITE ACT AND INHERENT IN OPERATING SATELLITE SYSTEM N64-21143 14-01

PERFORMANCE OF TRANSPORTABLE PASSIVE SATELLITE COMMUNICATIONS TERMINAL
RADC-TDR-62-502 N64-21412 14-10

DESIGN AND FABRICATION OF INFLATABLE AND RIGIDIZABLE PASSIVE COMMUNICATION SATELLITES
N64-23728 16-32

INFLATABLE MATERIAL REQUIREMENTS FOR PASSIVE COMMUNICATION SATELLITE N64-23730 16-32

HIGH POWER COMMUNICATIONS SATELLITE POTENTIAL - COST REDUCTION AND LIFETIME EXTENSION
N64-24858 17-08

OVERSEAS COMMERCIAL COMMUNICATIONS SATELLITE SYSTEMS- 1965 TO 1975 N64-24859 17-08

BIBLIOGRAPHY ON COMMUNICATIONS SATELLITES
NASA-SP-7004 N64-25874 18-32

IBM 7090 AND 7094 PROGRAMS FOR COST ESTIMATES AND OPERATION OF COMMUNICATIONS SATELLITE SYSTEMS
NASA-CR-55888 N64-27262 19-10

LINK FROM COMMUNICATIONS SATELLITE TO SMALL GROUND STATION
P-2884 N64-28682 20-08

COMMUNICATION SATELLITES FOR TELECOMMUNICATIONS - ECONOMIC FEASIBILITY
NASA-CR-58031 N64-29553 21-32

PROBABILITY DISTRIBUTION OF ANTENNA GAIN FOR SATELLITES WITH SWITCHED ANTENNA SYSTEMS
ESD-TDR-64-28 N64-29609 21-08

COMMUNICATIONS SATELLITE TECHNOLOGY - ECHO, RELAY, AND SYNCOM PROJECTS N64-30342 22-32

MULTIPLE ACCESS CAPABILITY OF HARD-LIMITING COMMUNICATION SATELLITE REPEATER WITH SPREAD-SPECTRUM SIGNALS
IDA/HQ-64-2498 N64-30797 22-08

BIBLIOGRAPHY ON ECHO COMMUNICATIONS SATELLITE
AD-422849 N64-33847 24-32

COMMUTATION
COMMUTATION RELATIONS FOR ENERGY-MOMENTUM TENSOR
ARL-64-165 N64-30952 22-23

COMMUTATION RELATIONS FOR ELECTROMAGNETIC POTENTIALS
ARL-64-166 N64-30953 22-23

COMMUTATOR
CF ELECTRIC MOTOR
CF GENERATOR
SEMICONDUCTOR COMMUTATOR FOR TELEMETRY SYSTEMS
TR-1149 N64-26651 18-09

LOW POWER MAGNETIC COMMUTATOR FOR DIGITAL SYSTEM OF MULTIPLE CONTROL OF PRODUCTION PROCESSES
N64-30231 22-09

BINARY CODED DECIMAL COMMUTATORS FOR MECHANICAL CALCULATING MACHINES N64-31860 23-20

WEAR AND VIBRATION TESTS OF SLIP RING ASSEMBLIES
NASA-CR-58686 N64-33045 24-17

COMPARATOR
ELECTRON GUN FOR PRODUCTION OF MAGNETICALLY CONFINED ELECTRON BEAM N64-16131 08-23

CALIBRATION OF COMPARATORS FOR BALLISTIC CAMERA DATA - PHOTOGRAMMETRIC DATA REDUCTION ANALYSIS
MTC-TDR-63-10 N64-21247 14-15

MULTICHANNEL TELEMETRY DEVICE USING ERROR SIGNAL GENERATING COMPARATOR AND MEMORY CIRCUIT
FTD-TT-63-95/1&2&4 N64-23419 16-08

CIRCUIT AND CHARACTERISTICS OF HIGH SPEED COMPARATOR FOR DIGITAL COMPUTERS
N64-23548 16-09

HIGH FREQUENCY PHASE COMPARATOR USING DIODE VECTOR RECTIFIERS FOR ROCKET INSTRUMENTATION
NASA-CR-58057 N64-26360 18-15

AUTOMATIC COMPARATOR FOR SPECTRAL MEASUREMENTS
LA-3100 N64-30820 22-15

COMPARATOR FOR DETERMINING METRIC STANDARDS
N64-32790 24-23

COMPASS
AUTOMATIC LATITUDE COMPASS WITH GYROSCOPE
N64-13574 05-22

THEORY OF HORIZON GYROCOMPASSES
N64-24548 17-15

STABILITY OF AIRCRAFT ON NORTHERLY HEADINGS CONTROLLED BY AILERON STEERING AUTOPILOT MONITORED FROM GYROMAGNETIC COMPASS
ARC-R&M-3356 N64-25073 17-04

EFFECT OF VEHICLE MANEUVERS ON READINGS OF GYROCOMPASS WITH ELECTROMAGNETIC CORRECTION
N64-29143 21-15

APPROXIMATION OF MOTION OF SENSITIVE ELEMENT OF GYROCOMPASS WITH ELASTIC TORSIONAL SUPPORT
N64-29145 21-15

EFFECT OF VERTICAL OSCILLATIONS OF GYROSCOPIC HOUSING ON GYROCOMPASS READING FOR FLOATING TYPE
N64-31863 23-15

COMPENSATION
AUTOMATIC COMPENSATION FOR DEFORMATION OF STELLAR TELESCOPES N64-13683 05-06

WIND-COMPENSATION METHOD AND APPLICATION TO FLIGHT TESTS OF TRAILBLAZER MISSILES
NASA-TN-D-2053 N64-18077 10-32

MAGNETIC FIELD EFFECTS ON COMPENSATION OF SPACE CHARGE OF ION BEAM BY ELECTRONS
FTD-TT-64-619/1&2&4 N64-26719 18-24

COMPENSATION LIMITED CONDUCTIVITY IN CADMIUM AND ZINC BINARY SEMICONDUCTORS N64-31643 23-25

COMPENSATOR
CAMERA WITH OPTICAL COMPENSATOR FOR OBSERVING ARTIFICIAL EARTH SATELLITES N64-13686 05-23

ELECTRONIC COMPENSATOR DESIGNED TO EXTEND USABLE FREQUENCY RANGE OF TRANSDUCER SYSTEM
N64-16244 08-08

DIGITAL COMPENSATOR FOR AUTOMATIC CONTROL SYSTEMS
NASA-CR-59053 N64-32988 24-06

COMPILER PROGRAM
PROGRAMMING MANUAL FOR USE OF CONTROL DATA 1604 COMPUTER USING ALGOL COMPILER
ORNL-3460 N64-15338 07-20

COMPLEX
S LAUNCH COMPLEX

COMPLEX VARIABLE
SA MAXIMUM PRINCIPLE
SA RIEMANN SURFACE
CF ANALYTIC FUNCTION
COMPLEX VARIABLE ANALYTIC FUNCTIONS AND SOLUTIONS OF ELLIPTICAL SYSTEMS OF DIFFERENTIAL EQUATIONS
RSIC-172 N64-22909 14-20

COMPONENT RELIABILITY
AERODYNAMIC HINGE MOMENTS CAUSED BY EXTERNAL FLOW ON SATURN I, BLOCK I NOZZLE CONFIGURATIONS
NASA-TM-X-51071 N64-10104 01-27

DESIGN, CONSTRUCTION, AND EVALUATION OF RELIABLE COMPONENTS FOR ELECTRONIC EQUIPMENT IN SATELLITE LAUNCHING AND ORBITAL ENVIRONMENT - TELSTAR
N64-11081 02-08

DESIGN AND CONSTRUCTION OF TELSTAR SATELLITE ELECTRONICS PACKAGE FOR RELIABILITY
N64-11084 02-09

IMPROVEMENT OF MASS SPECTROMETER USED TO ANALYZE SILICON EPITAXIAL REACTOR GAS STREAM COMPONENTS
AFCRL-63-350 N64-12237 03-15

MICROWAVE COMPONENTS AND TECHNIQUES - CHARACTERISTICS OF PLANAR HEXAGONAL MAGNETIC OXIDES
RADC-TDR-63-385 N64-12369 03-15

DETERMINING COMPONENT RELIABILITY FROM VIBRATION TESTS N64-20261 13-17

FULL SCALE COMPONENT RELIABILITY TEST FOR TITANIUM ROCKET MOTOR CASE
WAL-TR-766.2/1-14, VOL. IV N64-20911 14-17

PHYSICS OF FAILURE IN ELECTRONIC COMPONENTS AND EQUIPMENT N64-20967 14-09

METHODOLOGY AND SCOPE OF RELIABILITY PHYSICS PROGRAM FOR ELECTRONIC COMPONENTS N64-20968 14-17

ANALYSIS OF ACCELERATED AGING TESTS FOR ELECTRONIC COMPONENT RELIABILITY N64-20969 14-09

STRESS TO STRENGTH RELATIONSHIP IN TESTS TO FAILURE FOR COMPONENT RELIABILITY ESTIMATES N64-20972 14-33

ELECTRICAL AND MECHANICAL FAILURE ANALYSIS FOR SEMICONDUCTOR RELIABILITY N64-20985 14-09

MISSILE FAILURE DUE TO IMPURITIES IN ELECTROPLATED COMPONENTS - VACUUM ULTRASONIC TREATMENT TO INCREASE RELIABILITY N64-20994 14-30

FAILURE RATE AND OPERATING LIFE DATA ON ELECTRONIC COMPONENTS, EQUIPMENT, AND SYSTEMS FOR RELIABILITY PREDICTION
02-22571 N64-21376 14-17

COMPONENT RELIABILITY, HARDWARE, AND THERMODYNAMIC ANALYSIS OF DYNA-SOAR SPACE GLIDER
DSR-14 N64-21996 15-30

QUALITY ASSURANCE PROGRAM FOR COMPONENT RELIABILITY IN RIFT PROJECT
NASA-CR-56346 N64-22446 15-17

IMPROVEMENT OF COMPONENT RELIABILITY IN MISSILES BY INDUCED FAILURE N64-23164 16-34

RELIABILITY OF PASSIVE COMPONENTS OF ELECTRONIC EQUIPMENT
FTD-TT-62-1820/1&2&4 N64-23294 16-08

ELECTRONIC PARTS AND COMPONENT RELIABILITY FOR SYNCOM I SATELLITE
NASA-TM-X-55012 N64-27249 19-09

COMPONENT RELIABILITY AND FAILURE OF MARINER R SPACECRAFT SYSTEMS
NASA-CR-58070 N64-27801 19-32

RELIABILITY OF SILICON ALLOY TRANSISTOR
QPR- 3 N64-28240 20-17

COMPOSITE FUNCTION
COMPUTATION OF DERIVATIVES OF COMPOSITE FUNCTIONS, AND FUNCTION OF NEWTONIAN ATTRACTION BETWEEN TWO BODIES
NH-TRANS-326 N64-16191 08-20

COMPUTATION OF HIGHER PARTIAL DERIVATIVES OF COMPOSITE FUNCTIONS - GENERAL FORMULA N64-16192 08-20

RECURRENT RELATIONS FOR APPLICATION OF GENERAL FORMULA FOR COMPUTING HIGHER PARTIAL DERIVATIVES OF COMPOSITE FUNCTIONS N64-16193 08-20

RECURRENT RELATIONS FOR COMPUTATION OF DERIVATIVES OF COMPOSITE FUNCTIONS N64-16196 08-20

COMPOSITE MATERIAL
SA CERMET
COMPOSITE MODULI OF UNIDIRECTIONAL FIBER-REINFORCED MEDIA
NASA-CR-52410 N64-12952 04-19

PENETRATION OF HYPERVELOCITY PROJECTILES INTO COMPOSITE LAMINATES N64-13550 05-33

PLASTIC DEFORMATION AND FAILURE OF SILVER-STEEL FILAMENTARY COMPOSITE MATERIALS
ASRL-TR-94-5 N64-14002 05-33

MATHEMATICAL ANALYSIS OF STRESSES IN COMPOSITE MATERIALS - BIBLIOGRAPHY
S-42 N64-14023 05-34

RESISTIVE CELL STUDIES, COARSE-GRAIN-COMPOSITE STRENGTH & CONDUCTIVITY, FINE-GRAIN-COMPOSITE PREPARATION, AND DESIGN OF SMALL LIQUID METAL CELL N64-15625 07-09

COMPOSITE, HARD-GRAIN, DUCTILE MATRIX BODIES OF HIGH COMPRESSIVE STRENGTH PRODUCED BY ISOSTATIC PRESSING AND FIRING - OXIDES AND CARBIDES
Y-1450 N64-16314 08-19

COMPOSITE FIBER-METAL GASKET FOR SEALING IN FUEL SYSTEMS OF AEROSPACE VEHICLES - SEALANTS
ERR-FW-174 N64-18946 11-17

HOLLOW GLASS FIBER REINFORCED PLASTICS COMPARED WITH SOLID GLASS-PLASTIC COMPOSITES
R63SD41 N64-19129 11-19

COMPOSITE STRUCTURAL MATERIALS WITH HIGH STRENGTH-TO-WEIGHT RATIOS AT ELEVATED TEMPERATURES
AD-439813 N64-21182 14-18

THERMOCONDUCTIVITY AND THERMAL EXPANSION MEASUREMENTS OF PLASTICS AND COMPOSITES FOR CRYOGENIC APPLICATIONS
ML-TDR-64-33, PT. I N64-22554 15-19

MECHANICAL PROPERTIES OF COMPOSITE MATERIALS FOR EXPANDABLE SPACE STRUCTURES N64-23723 16-19

DYNAMICS OF COMPOSITE STRUCTURES AND MATERIALS
NASA-CR-71 N64-24073 16-33

STRUCTURAL BEHAVIOR OF LAMINATED ANISOTROPIC PLATES - CROSS-PLY & ANGLE-PLY COMPOSITES
NASA-CR-56343 N64-24121 16-33

GLASS FILAMENT WOUND STRUCTURES AND COMPOSITE MATERIALS IN POLARIS MODEL A3 CHAMBERS
REPT.-3888-31M-5, ADDEND. N64-25350 17-27

REFRACTORY COMPOSITES
AD-601266 N64-25408 17-17

REFRACTORY COMPOSITES FOR SOLID PROPELLANT ROCKET MOTOR APPLICATION N64-25412 17-19

COMPOSITE MATERIAL FOR HIGH TEMPERATURE STRUCTURAL APPLICATION N64-25413 17-17

BRAZED REFRACTORY METAL HONEYCOMB SANDWICH PANELS, RESIN-IMPREGNATED POROUS CERAMICS, AND ABLATIVE CERAMIC COMPOSITE STRUCTURES N64-25416 17-17

REFRACTORY COMPOSITE ATTACHMENT N64-25417 17-17

WHISKER-REINFORCED METALLIC COMPOSITES N64-25418 17-17

WHISKER MICROCOMPOSITES N64-25419 17-17

PLASMA JET MATERIAL TESTING APPARATUS FOR PRELIMINARY EVALUATION OF COMPOSITE MATERIALS FOR ROCKET ENGINE COMPONENTS N64-25424 17-19

INFLUENCE OF CONSTITUENT PROPERTIES ON COMPOSITE MATERIAL PERFORMANCE - STRUCTURAL EFFICIENCY OF CYLINDRICAL SANDWICH SHELLS IN AXIAL COMPRESSION
NASA-CR-58182 N64-26577 18-34

PRINCIPLES AFFECTING HIGH STRENGTH TO DENSITY COMPOSITES WITH FIBERS OR FLAKES
ML-TDR-64-85 N64-26891 18-19

REFRACTORY MATERIALS AND COMPOSITES - CONFERENCE

DMIC-MEMO-192 N64-26913 18-19

REFRACTORY MATERIALS - CONFERENCE
RTD-TDR-63-4131, VOL. 1 N64-27005 19-17

INORGANIC REFRACTORY COMPOSITES FOR USE IN HIGH TEMPERATURE ENVIRONMENTS
RTD-TDR-63-4131, VOL. 2 N64-27020 19-01

HIGH TEMPERATURE OXIDATION RESISTANT PROTECTIVE COATINGS FOR REFRACTORY ALLOYS, COMPOSITE MATERIAL DEVELOPMENT, AND THERMAL RADIATION MEASUREMENT
N64-27025 19-18

GRAPHITE COMPOSITE MATERIALS FOR HEAT SHIELD OR ROCKET NOZZLE N64-27033 19-19

FABRICATION AND PHYSICAL PROPERTIES OF CARBONIZED AND GRAPHITIZED CLOTH COMPOSITES
WADD-TR-61-72, VOL. IX N64-27334 19-19

PLASTICS AND COMPOSITE MATERIALS FOR AIR FORCE APPLICATIONS
ML-TDR-64-76 N64-27774 19-19

RELATION OF PROPERTIES OF COMPOSITE MATERIAL PLASTIC FILMS TO PROPERTIES OF COMPONENTS
RIA-64-731 N64-27788 19-19

ELASTIC ANALYSIS OF FILAMENT WOUND PRESSURE VESSELS - CONTRIBUTION OF RESIN TO STRENGTH OF COMPOSITE
REPT.-1 N64-28123 20-34

THERMAL FATIGUE TESTS ON STAINLESS STEELS AND ON COPPER CLAD WITH STAINLESS STEEL FOR USE AS CONSTRUCTION MATERIALS IN URANIUM DENITRATING VESSELS
DP-901 N64-29542 21-13

IMPROVED ATMOSPHERIC OXIDATION RESISTANCE IN CHROMIUM COMPOSITE MATERIALS
QR-1 N64-29842 21-18

EFFECT OF COUPLE-STRESSES ON FORCE TRANSFER COMPOSITE MATERIAL FORMED BY EMBEDDED MICROFIBERS
WVT-RR-6407 N64-30693 22-33

METAL-CERAMIC COMPOSITE MATERIALS FOR HIGH TEMPERATURE STRUCTURAL APPLICATION TO REENTRY VEHICLES
ML-TDR-64-583 N64-30929 22-18

DRAWING OF CONTINUOUS LENGTHS OF GLASS-METAL COMPOSITE FIBERS
C910242-1 N64-32812 24-17

SCALE UP & THERMAL TESTING OF ZIRCONIUM-BORIDE-MOLYBDENUM-SILICIDE REFRACTORY CERAMIC COMPOSITE FOR LEADING EDGES OF HYPERSONIC VEHICLES
REPT.-2178-900204 N64-33655 24-34

MECHANICAL PROPERTIES OF COMPOSITE MATERIAL FORMED BY INFILTRATION OF POROUS CERAMIC WITH EPOXY RESIN
REPT.-1780-TR N64-33823 24-19

COMPOSITE PROPELLANT
IGNITERS AND IGNITION PROCESS OF COMPOSITE SOLID PROPELLANTS IN SMALL ROCKET MOTOR
AERONAUTICAL ENG. REPT.-662 N64-13260 04-26

GAS PHASE REACTIONS ASSOCIATED WITH COMBUSTION OF COMPOSITE SOLID PROPELLANTS - APPARENT FLAME STRENGTH
AD-428627 N64-14794 06-26

DYNAMIC RESPONSE AND FAILURE MECHANISMS IN COMPOSITE SOLID PROPELLANTS
LPC-618-P-11 N64-14820 06-26

THERMAL RADIATION FROM EXHAUST PLUME OF ALUMINIZED COMPOSITE PROPELLANT ROCKET
BSD-TDR-64-16 N64-21687 15-13

FORM FUNCTIONS FOR DUAL COMPOSITION INCREMENTS OF PROPELLANT GRAINS
R-1692 N64-26865 18-26

EFFECTS OF PARTICLE SIZE AND NONSTOICHIOMETRIC COMPOSITION ON BURNING RATES OF COMPOSITE SOLID PROPELLANTS N64-28193 20-26

STRUCTURAL ANALYSIS PROCEDURES FOR SOLID PROPELLANT ROCKET ENGINES, AND MATERIAL BEHAVIOR OF POLYMERIC AND COMPOSITE SYSTEMS
NATSCIT-PS-64-1 N64-33324 24-26

COMPOSITE STRUCTURE
CONSTRUCTION AND OPERATION OF QUARTZ COMPOSITE OSCILLATOR FOR MEASURING INTERNAL FRICTION IN METALS AND ALLOYS
BM-RI-6419 N64-18506 10-09

FABRICATION OF TUNGSTEN BODIES OF INCREASED STRENGTH
SM-44666 N64-19009 11-18

HYPERVELOCITY IMPACT OF SMALL GLASS SPHERES ON COMPOSITE SPACE STRUCTURES N64-19372 12-23

TRANSIENT TEMPERATURE RESPONSE OF SIX COMPOSITE FIBERGLASS-METAL INSULATION PANELS FOR F-111 AIRCRAFT
FTDM-3219 N64-20067 13-17

COMPOSITE SYSTEMS FOR THERMAL-STRUCTURAL APPLICATIONS IN ABLATION SYSTEMS, COOLING SYSTEMS, AND ENVIRONMENTAL CONTROL SYSTEMS
FZM-4037 N64-20071 13-19

STATIC ATOMIC DISPLACEMENT AND THERMAL EXPANSION MEASUREMENTS OF TITANIUM-NITROGEN COMPOSITE STRUCTURES
C-22 N64-20574 13-25

CLOSURES AND PENETRATIONS FOR PRESSURE VESSELS OF COMPOSITE CONSTRUCTION
DTMB-1732 N64-26066 18-11

PRODUCTION OF COMPOSITES OF BERYLLIUM ON STAINLESS STEEL AND NIOBIUM TUBING FOR IMPACT TARGETS IN METEOROID COLLISION SIMULATION TESTS
NASA-CR-54144 N64-28460 20-18

GLASS FIBER REINFORCEMENTS FOR FILAMENT WOUND COMPOSITE STRUCTURES
TR-64-8-104 N64-29555 21-17

COMPOSITION
S ATMOSPHERIC COMPOSITION
S IONOSPHERIC COMPOSITION
S LUNAR COMPOSITION
S PLASMA COMPOSITION

COMPRESSIBILITY
SA COMPRESSIBLE FLOW
COMPRESSIBILITY COEFFICIENT DETERMINATION FOR MULTIPHASE, MULTICOMPONENT FLUID MIXTURES AT LOW TEMPERATURES AND HIGH PRESSURES
BM-RI-6267 N64-14913 06-23

SHOCK WAVE PROPAGATION ON ONE-DIMENSIONAL FLOW OF IDEAL COMPRESSIBLE FLUID N64-17758 09-23

SHOCK WAVES IN TWO-DIMENSIONAL MAGNETOHYDRODYNAMIC FLOW OF INVISCID, COMPRESSIBLE GAS
MF-38 N64-19300 12-24

DENSITY AND COMPRESSIBILITY OF EARTH MANTLE
N64-21128 14-05

HYDROMAGNETIC STABILITY OF VELOCITY DISCONTINUITY BETWEEN TWO INVISCID, COMPRESSIBLE FLUIDS
N64-22497 15-11

EFFECTS OF COMPRESSIBILITY OF ALVEOLAR GAS ON DYNAMICS OF BREATHING CYCLE - RESPIRATORY PHYSIOLOGY
SAM-TDR-63-71 N64-26653 18-16

DYNAMIC SHEAR AND COMPRESSIBLE PROPERTIES OF SOLID PROPELLANTS AND PROPELLANT BINDERS
REPT.-11 N64-27548 19-26

COMPRESSIBILITY AND HEAT TRANSFER EFFECTS ON LAMINAR SUBLAYER OF TURBULENT BOUNDARY LAYER
NASA-TN-D-1998 N64-31225 22-11

MOTION EQUATIONS FOR COMPRESSIBLE FLUID FLOWS AROUND FLAT PLATE
NWL-1933 N64-31660 23-11

TURBULENT BOUNDARY LAYER OF NONTHERMOINSULATED WING OR AXISYMMETRIC BODY IN COMPRESSIBLE LIQUID
N64-31748 23-11

COMPRESSIBILITY OF LIQUID HYDROGEN TO 40,000 ATMOSPHERES AND 1100 DEG K
UCRL-7833 N64-32795 24-23

COMPUTER PROGRAM FOR CALCULATION OF HEAT CONTENT, COMPRESSIBILITY FACTOR, ENTROPY, AND FUGACITY COEFFICIENT OF PURE SUBSTANCE OR MIXTURE FROM EQUATION OF STATE
UCRL-11645 N64-33238 24-20

CRITICAL SPEEDS OF SOLITARY WAVES IN COMPRESSIBLE FLUID
IMM-NYU-325 N64-33297 24-11

UNSTEADY SPATIAL FLOW OF COMPRESSIBLE FLUIDS - WING OF FINITE SPAN IN PRESENCE OF MOVING SHOCK WAVE
NASA-TT-F-8983 N64-33390 24-03

COMPRESSIBILITY COMPARISONS, HOT PRESSING, SINTERING, PLASMA SPRAYING, AND SLIP CASTING TECHNIQUES FOR POWDER METALLURGY
N64-33509 24-18

COMPRESSIBLE FLOW
UNIVERSAL LAW FOR CONVECTIVE HEAT TRANSFER IN TURBULENT BOUNDARY LAYER OF COMPRESSED GAS
N64-11142 02-13

THERMAL BOUNDARY LAYER IN COMPRESSIBLE GAS FLOW
RSIC-11 N64-12204 03-11

AERODYNAMIC CHARACTERISTICS OF TWO-DIMENSIONAL TURBULENT COMPRESSIBLE JETS
A-1771-24 N64-13956 05-11

APPROXIMATION THEORY OF LAMINAR AND TURBULENT BOUNDARY LAYER COMPRESSIBLE FLOW
AID-T-63-110 N64-15246 07-11

CALCULATION OF ZONES OF THERMAL BOUNDARY LAYER IN FLOW OF COMPRESSIBLE GAS
FTD-TT-63-84/1&2 N64-16413 08-13

COMPRESSIBLE FLOW EQUATIONS FOR MAGNETOHYDRODYNAMIC POWER GENERATOR
R64SD5 N64-16463 08-24

COMPUTER SOLUTION OF BOUNDARY LAYER EQUATIONS FOR COMPRESSIBLE LAMINAR FLOW
DOUGLAS PAPER-1657 N64-16506 08-11

SOUND PRODUCTION AND FLOW INSTABILITY AS CHARACTERISTICS OF COMPRESSIBLE FLUID FLOW
AGARD-466 N64-16540 08-23

FLOW FIELD OF COMPRESSIBLE PLASMA OVER BIASED BODY
AD-434731 N64-18313 10-24

TRANSIENT OSCILLATION OF LOAD CARRYING SURFACE /WING/ IN COMPRESSIBLE NONVISCOUS MEDIUM
FTD-MT-63-140 N64-18683 11-23

FORTRAN COMPUTER PROGRAM FOR ANALYSIS OF ONE-DIMENSIONAL COMPRESSIBLE FLUID FLOW PROCESS IN REAL GAS
UCRL-7530 N64-18983 11-20

BOUNDARY LAYER WITH PRESSURE GRADIENT IN COMPRESSIBLE FLUID FLOW
FTD-TT-63-1138/1&2 N64-19763 12-11

MIXING OF LAMINAR AND TURBULENT AXISYMMETRIC COMPRESSIBLE FLOWS
ARL-63-108 N64-21432 14-11

EFFECT OF TRANSVERSE CURVATURE IN COMPRESSIBLE LAMINAR BOUNDARY LAYER FLOW OVER SLENDER BODIES OF REVOLUTION
NOLTR-63-68 N64-21719 15-11

INTERFACE STABILITY OF COMPRESSIBLE GAS FLOW OVER LIQUID LAYER
SUDAER-172 N64-22212 15-11

MATHEMATICAL EQUATIONS FOR TWO-DIMENSIONAL STATIONARY COMPRESSIBLE FLOWS PAST CYLINDER - MAGNETOGASDYNAMICS
SR-8 N64-22971 16-24

SPREADING RATES OF COMPRESSIBLE TWO-DIMENSIONAL REATTACHING JET FLOWS FOR VELOCITY PROFILE IN FLUID AMPLIFIERS
N64-25257 17-11

CRUCIFORM WING OF FINITE SPAN IN COMPRESSIBLE FLOW
FTD-TT-64-127/1&2&4 N64-26510 18-03

RESONANT FREQUENCY FOR COMPRESSIBLE FLOW PAST OSCILLATING MODEL IN WIND TUNNEL
ARC-R&M-3371 N64-26521 18-10

AXISYMMETRICAL FOIL BEARING AND EFFECTS OF COMPRESSIBLE FLOW
RR-64-6 N64-26584 18-17

COMPRESSIBLE FLOW FUNCTIONS AT MACH NUMBERS FROM 0 TO 20 - SPECIFIC HEAT RATIOS AND UNSTEADY FLOW AND IDEAL THRUST FUNCTIONS
N64-26637 18-11

OSCILLATIONS OF CROSS-SHAPED WINGS OF FINITE SPAN IN COMPRESSIBLE FLOW
N64-27979 20-03

BOUNDARY LAYER OF AXISYMMETRIC FIGURE ROTATING WITHIN AXIAL FLOW OF COMPRESSIBLE GAS
N64-28472 20-11

STRUCTURE OF TURBULENT COMPRESSIBLE FLUID FLOW IN GAS TURBINES
N64-28477 20-11

VIBRATION AND STABILITY OF RIBBED CYLINDRICAL SHELLS IN COMPRESSIBLE LIQUID FLOW
FTD-TT-63-647/1 N64-29027 21-33

COMPRESSION
SA AXIAL COMPRESSION
SA SHOT PEENING
CF DECOMPRESSION
CF MECHANICAL PROPERTY
ANNEALING EFFECT ON DENSITY OF DISLOCATIONS AND COMPRESSION CURVES OF GERMANIUM CRYSTALS
N64-10710 02-25

COMBUSTION INSTABILITY IN SOLID PROPELLANT MOTORS BY STRONG COMPRESSION WAVE FLOW
CARDE-TM-660/63 N64-11204 02-26

EXTENSION OF LIMITS OF MCLEOD PRESSURE GAUGES BY MULTIPLE COMPRESSION
NASA-CR-52877 N64-11328 02-15

TUNGSTEN SHEET - RECRYSTALLIZATION TEMPERATURES, COMPRESSION PROPERTIES, AND BEND-TRANSITION-TEMPERATURE CURVES
REPT.-6495-1479-IV N64-11758 03-18

DEFECTS IN COMPRESSION LOADING OF LUBRICANT FILM AT TOOL-METAL INTERFACE IN PLASTIC COMPRESSION OF ALUMINUM
WAL-TR-620.5/1-1/F/ N64-12322 03-11

STRESS PROPAGATION OF COMPRESSION AND SHEAR WAVES AT DIFFERENT EARTH LEVELS
N64-12415 04-23

SYSTEMATIC STATISTICS USED FOR DATA COMPRESSION IN SPACE VEHICLE TELEMETRY SYSTEM
NASA-CR-53031 N64-13279 04-08

PERFORMANCE OF COMPRESSION HEATER FOR HYPER-VELOCITY ACCELERATOR
N64-13514 05-23

DEFORMATION AND COMPRESSION OF QUENCHED URANIUM-MOLYBDENUM ALLOYS
AERE-R-4353 N64-15603 07-18

MATHEMATICAL SOLUTION FOR REFLECTION AND TRANSMISSION OF PLANE COMPRESSIONAL WAVES
AFCRL-64-205 N64-15684 07-23

COMPRESSION AND DEFORMATION OF LEAD SPHERES IN UNIRAN TETRAHEDRAL ULTRAHIGH PRESSURE DEVICE

ERR-FW-211 N64-15710 07-23

SYSTEM ORIENTED, PULSE CODE MODULATED, GROUND STATION INCORPORATING DATA COMPRESSION
N64-16167 08-08

SANDWICH SPECIMEN EVALUATION TO DETERMINE EFFECT OF HONEYCOMB CORE CELL SIZE ON EDGEWISE COMPRESSION OF SANDWICH CONSTRUCTION
FPL-026 N64-17370 09-33

COMPRESSIVE CRIPPLING TESTS OF CLOSE COLUMN MEMBERS OF RENE 41, INCONEL X, AND TITANIUM ALLOY AT ROOM AND ELEVATED TEMPERATURES
SM-44540 N64-17668 09-33

WEIGHTLESSNESS IN SPACE - MANEUVERABILITY, ELASTIC COMPRESSION OF OBJECTS, AND BEHAVIOR OF LIQUIDS
FTD-TT-63-300/1&4 N64-19213 11-14

TWINNING IN SAPPHIRE RODS DURING COMPRESSION
ATN-64/9236/-16 N64-19242 11-19

AERODYNAMIC COMPRESSION OF GAS STREAMS IN CONVERGENT AND CONVERGENT-DIVERGENT NOZZLES
FTD-TT-62-1555/1&2&4 N64-19250 11-11

COMPRESSION WAVE MOTION IN COLLISIONLESS PLASMA - ADIABATIC STATE
MF-36 N64-19299 12-24

EDGE COMPRESSION AND BUCKLING OF FLAT PANELS OF SANDWICH CONSTRUCTION WITH SIDES HINGED TO BEAMS
FPL-019 N64-19564 12-33

COMPRESSIVE YIELD OF ALUMINUM ALLOY PLATE SUBJECTED TO DUPLEX THERMAL EXPOSURE
FTDM-3152 N64-20055 13-18

TENSION AND COMPRESSION TESTING OF ALUMINUM ALLOY AFTER MULTIPLE TEMPERATURE EXPOSURE - STRESS-STRAIN DIAGRAMS
FZM-12-249 N64-20075 13-18

MAGNETIC COMPRESSION EXPERIMENT FOR STUDY OF SHOCK WAVE STRUCTURES
AFCRL-64-293 N64-20091 13-24

PULSE COMPRESSION TECHNIQUES FOR RADARS WITH HIGH RESOLUTION CAPABILITIES AT LONG RANGES
TDR-169/3250-43/TN-1 N64-22492 15-08

COMPARISON OF SHOCK AND ISENTROPIC HEATING IN LIGHT-GAS GUN COMPRESSION
NRL-6063 N64-22956 16-11

ELECTRON BEAM COMPRESSION USING ELECTRIC AND MAGNETIC FIELDS
NSF-6 N64-25113 17-23

IMPROVEMENT OF SHORT-ARC WIND TUNNEL BY ROTATING ARC IN HIGH COMPRESSION CHAMBER
N64-26142 18-11

EVALUATION OF THERMOCOMPRESSION BONDING PROCESS FOR INTRACONNECTION OF ACTIVE SEMICONDUCTOR DICE
N64-27659 19-25

ELECTRICAL CONDUCTIVITY OF WATER UNDER SHOCK COMPRESSION
BRL-MEMO-1563 N64-28156 20-11

COMPRESSION TEST RESULTS ON CYLINDERS WITH ECCENTRIC LONGITUDINAL STIFFENERS
NASA-TM-X-1004 N64-28319 20-33

LONGITUDINAL WAVE PROPAGATION IN ELASTIC POROUS MEDIUM SATURATED WITH LIQUID N64-28475 20-11

DEFLECTION CURVES DEVELOPED FOR CIRCULAR CROSS SECTION PRESSURIZED TUBE UNDER BENDING AND COMPRESSION
REPT.-6-90-63-114 N64-28615 20-33

HYDRAULIC TENSION-COMPRESSION FATIGUE TESTING MACHINE
01-82-0268 N64-28712 20-10

NOTCHED FLAT PANEL TEST FOR COMPRESSIVE STRENGTH OF FILAMENT WOUND PLASTIC STRUCTURAL MATERIALS
PR-5 N64-29373 21-33

PARTIAL-PENETRATION WELDING OF ALUMINUM ALLOY STRUCTURES FOR RETENTION OF COMPRESSIVE STRENGTH
NAVWEPS-8495 N64-29623 21-34

LOADING RATE EFFECT ON DEFORMATION OF ROCK UNDER TRIAXIAL COMPRESSION
AROD-3055-1 N64-29924 21-12

SPONTANEOUS IGNITION OF HYDRAULIC FLUIDS DURING COMPRESSION PROCESSES
AD-602888 N64-30554 22-26

STRIPLINE ALL-PASS NETWORK AS WIDEBAND DISPERSIVE FILTER FOR PULSE COMPRESSION RADAR
AD-421982 N64-31172 22-09

COMPRESSION-SET BEHAVIOR OF IRRADIATED SILICONE ELASTOMERS COMPRESSED AT CONSTANT STRAIN IN AIR
NARF-63-2T N64-31299 22-19

OUTPUT TIME FUNCTION OF LINEAR-FREQUENCY MODULATION-PULSE COMPRESSION FILTER
TM-03984 N64-31889 23-04

PRESSURE EFFECT ON DUCTILITY OF METALS DURING HYDRODYNAMIC COMPRESSIVE FORGING
ML-TDR-64-240 N64-31894 23-17

COMBUSTION AND LOWERING OF COMPRESSION TEMPERATURE IN DIESEL ENGINE
QTSR-3 N64-32387 23-27

CORRELATION OF PHOTO AND MECHANICAL ELASTICITY IN BENDING OF ISOTROPIC MATERIALS UNDER COMPRESSION LOADING
RSIC-270 N64-32497 23-33

PULSE COMPRESSION THERMAL CONDUCTANCE VACUUM GAUGE FOR LOW PRESSURE USE
FTD-TT-63-151/1&2 N64-32510 23-15

SUPERCONDUCTIVITY OF INDIUM AND TIN UNDER UNIFORM COMPRESSION
NASA-TT-F-9152 N64-33409 24-25

COMPRESSOR
ROTATING DIFFUSER APPARATUS FOR CENTRIFUGAL COMPRESSOR MACHINE
FTD-TT-63-809/1&2 N64-11143 02-02

STRESS DISTRIBUTION IN COMPRESSOR BLADES DURING VIBRATION
FTD-TT-62-740/1&2 N64-11151 02-10

FACILITY FOR TESTING SINGLE-STAGE AXIAL COMPRESSOR BLADES
K-1568 N64-13222 04-10

CODE FOR ROUTINE TESTING OF AXIAL FLOW, MULTISTAGE COMPRESSORS
ARC-R&M-3337 N64-13357 04-15

ELASTIC AND DAMPING PROPERTIES OF LIGHT AIRCRAFT COMPRESSOR BLADES N64-13561 05-03

AERODYNAMIC PERFORMANCE OF SUPERSONIC WIND-TUNNEL COMPRESSOR WITH FIRST CYLINDER REMOVED
AEDC-TDR-64-16 N64-14975 06-10

HIGH SPEED AXIAL COMPRESSOR TEST FACILITY
VKI-TM-17 N64-16947 09-10

FLUID FLOW IN GAS TURBINE AND IN AXIAL COMPRESSOR
FTD-TT-63-81/1&2 N64-17173 09-03

MEASURING PRESSURE PULSES AND STRESSES ON ROTATING VANES OF AXIAL COMPRESSOR N64-17175 09-03

INTENSIFICATION OF ANNULAR VORTEX FOR BROADENING REGION OF STABLE WORK IN AXIAL COMPRESSORS
FTD-MT-63-33/1&2 N64-18749 11-04

INFLUENCE OF COMPRESSOR PROPERTIES ON TURBO-JET PROPULSION ENGINE CONSTRUCTION
FTD-TT-62-1666/1&2 N64-22392 15-17

CENTRIFUGAL COMPRESSOR WHEEL AND CASCADE FLOW STUDIES FOR POWER MACHINE CONSTRUCTION
FTD-TT-62-1816/1&2&4 N64-23494 16-01

GEOMETRY AND OPERATIONAL EFFICIENCY OF CENTRIFUGAL COMPRESSOR WHEELS N64-23495 16-17

INFLUENCE OF NUMBER OF VANES ON CENTRIFUGAL WHEEL WITH SINGLE-STAGE CASCADE N64-23496 16-17

EFFICIENCY OF CENTRIFUGAL COMPRESSOR WHEELS WITH TWO-STAGE VANE CASCADE N64-23497 16-17

ULTRASONIC INSPECTION METHODS FOR COMPRESSOR BLADE OF TURBOJET ENGINE - FLAW DETECTION
AD-636289 N64-23649 16-02

STRESSES IN DIE CAST ALUMINUM BLADES OPERATING IN AXIAL FLOW COMPRESSOR ENVIRONMENT OF URANIUM HEXAFLUORIDE
GAT-432 N64-24217 16-06

SUPERSONIC COMPRESSOR FOR HIGH ENTHALPY TEST FACILITY
ARL-64-64 N64-24933 17-10

LOW TEMPERATURE CENTRIFUGAL COMPRESSOR TEST RIG
NRC-7776 N64-25199 17-15

HEAT RESISTING ALLOYS FOR TURBINE AND COMPRESSOR BLADES
JPRS-24845 N64-25852 18-18

VIBRATION STUDIES OF COMPRESSOR FOUNDATION STRUCTURE
NAL-TN-AE-19-63 N64-26536 18-33

UNITARY COMPRESSOR-DRYER SYSTEM OF WIND TUNNEL
NAL-TN-AE-19-63 N64-26637 18-10

VELOCITY MEASUREMENT AND HEAT TRANSFER IN TURBINES AND COMPRESSORS
FTD-TT-62-1784/1&2 N64-27126 19-13

JET COMPRESSOR GEOMETRY EFFECT ON EFFICIENCY
PR-10 N64-28827 20-11

NATURAL FREQUENCY OF VIBRATION OF COMPRESSOR FOUNDATION AND ISOLATION FROM ENVIRONMENT
NAL-TN-AE-22-63 N64-28980 20-33

TWO-DIMENSIONAL CASCADE FLOW MAPPING FOR BLADE OSCILLATION IN AXIAL FLOW COMPRESSORS
FTR-1/23 N64-31141 22-02

NOZZLE BLADE COOLING AND AXIAL COMPRESSORS
FTD-MT-63-203 N64-33701 24-13

COMPTON EFFECT
DETERMINATION OF CHARACTER OF HIGHER RESONANCES IN PION-PHOTOPRODUCTION AND PROTON COMPTON EFFECT BY USING POLARIZED GAMMA RAYS
LNF-63/66 N64-13176 04-23

COMPUTATION
CF INTERPOLATION
MATHEMATICAL MODEL AND COMPUTATION TECHNIQUES FOR PREDICTION OF SYSTEM EFFECTIVENESS OF ROCKET BOOSTED PAYLOADS
STL-9990-6586-KU-000 N64-33412 24-20

COMPUTER
SA ANALOG COMPUTER
SA CDC 1604 COMPUTER
SA COUNTING RATE COMPUTER
SA DATA PROCESSING
SA DATA TRANSMISSION
SA DIGITAL COMPUTER
SA FERRANTI MERCURY COMPUTER
SA FINITE-STATE MACHINE
SA IBM 650 COMPUTER
SA IBM 704 COMPUTER
SA IBM 709 COMPUTER
SA IBM 1401 COMPUTER
SA IBM 1620 COMPUTER
SA IBM 7070 COMPUTER
SA IBM 7074 COMPUTER
SA IBM 7090 COMPUTER
SA IBM 7094 COMPUTER
SA INFORMATION RETRIEVAL
SA PARAMETRON
SA SOLOMON COMPUTER
SA VOCODER
COMPUTER RELIABILITY DEPENDENCE ON TIME FUNCTION & INTEGRATED APPARATUS N64-10698 02-06

APPLICATION OF COMPACTNESS HYPOTHESIS TO VISUAL IMAGE RECOGNITION BY GENERAL-PURPOSE DIGITAL COMPUTER
JPRS-18126 N64-10742 02-16

ACCURACY OF DIGITAL AND ANALOG COMPUTERS FOR AUTOMATIC CONTROL IN COMBINED DIGITAL INTEGRATOR SYSTEM N64-10828 02-20

SMALL HIGH SPEED DIGITAL COMPUTER FOR DISTRIBUTING NETWORK CALCULATIONS
JPRS-19794 N64-10833 02-20

DECREASE OF MATERIAL LOSS BY USE OF ELECTRONIC COMPUTERS TO CONTROL CUTTERS IN BILLET MILLS
JPRS-20344 N64-10842 02-17

ROLE OF COMPUTERS IN INDUSTRY & ECONOMICS
JPRS-21839 N64-10845 02-20

OPERATIONAL MEMORY DEVICE FOR DIGITAL LOGICAL COMPUTER N64-11035 02-20

GENERAL PURPOSE, COMPUTER CONTROLLED SCANNING INSTALLATION FOR INVESTIGATION OF IMAGE RECOGNITION ALGORITHMS N64-11036 02-20

IMPROVING RELIABILITY OF DIGITAL SYSTEMS THROUGH LOGICAL REDUNDANCY
NASA-CR-52605 N64-11077 02-20

IMPROVED RELIABILITY OF DIGITAL SYSTEMS THROUGH LOGICAL REDUNDANCY TECHNIQUES
NASA-CR-52866 N64-11331 02-20

PREDICTION PROGRAM FOR GROUND DETERMINATION OF SATELLITE ORBIT BY DIGITAL COMPUTER
ER-13143 N64-11411 02-29

GENERAL PURPOSE DIGITAL COMPUTERS IN CYBERNETICS - SIMULATION OF BIOLOGICAL SYSTEMS, SELF-ORGANIZING AND TEACHING, AND VISUAL IMAGE PERCEPTION
N64-11533 03-16

GENERAL PURPOSE COMPUTER, SPECIAL BIOLOGICAL TYPE SYSTEM, SELF-ORGANIZATION, AND CONTROL SYSTEM SIZES AND SCOPES N64-11535 03-16

ARITHMETIC CODING SYSTEM WITH DIGITAL COMPUTER FEEDBACK SYSTEM FOR CORRECTING INDIVIDUAL ERRORS
N64-11834 03-20

RELIABILITY AND FAILURE OF DIGITAL COMPUTER AND COMPONENTS
SSD-TDR-63-150 N64-12183 03-20

EFFECT OF PULSED RADIATION ON AEROSPACE DIGITAL COMPUTER
RTD-TDR-63-3051 N64-12235 03-09

SYNTHESIS OF CONTROL EQUIPMENT FOR DIGITAL COMPUTERS - CYBERNETICS N64-12453 04-20

AUTOMATIC MEASUREMENT AND CONTROL DEVICES FOR INDUSTRIAL USE, AND COMPUTER SPECIFICATIONS
FTD-TT-63-763/1&2 N64-12622 04-06

INITIAL DIFFERENTIAL EQUATION OF INDUCTIVE PARAMETRON WITH FERRITE CORE FOR COMPUTERS & AUTOMATION DEVICES N64-12730 04-09

IONIC PROPULSION - ELECTRICAL NETWORK WITHIN DIGITAL COMPUTERS FOR DETERMINING ELECTRON TRAJECTORIES
ONERA-TN-73 N64-12916 04-23

MAGNETIC TAPE FOR SATURN LAUNCH VEHICLE GROUND STATION COMPUTER SYSTEM
NASA-CR-52633 N64-13065 04-09

ELECTRO-OPTICAL DEVICE, AND APPLICATION TO MICROELECTRONIC COMPUTER SYSTEMS

TI-03-63-49 N64-13094 04-25

ELECTRICAL EQUIPMENT FOR CODING AND COMPUTER SYSTEMS
EB-5261-0341-2 N64-13210 04-08

DANTZIG QUADRATIC PROGRAMMING ALGORITHM FOR SOLUTIONS USING MEDIUM-SIZED DIGITAL COMPUTER
AD-423332 N64-13245 04-20

PROBLEM SOLVING AND PROGRAMMING INSTRUCTIONS FOR DIGITAL COMPUTER
ANL-6697 N64-13398 04-20

MAGNETIC LOGIC COMPUTER FEASIBILITY - FERRITE ELEMENTS, FEW DRIVERS, SEQUENTIAL SWITCH TIMER, & HIGH SIGNAL TO NOISE RATIO
CA-4221-0089-1 N64-13626 05-09

AUTOMATIC DIGITAL COMPUTATION OF GIBBS EQUATION AND MASS ACTION FUNCTIONS FOR CHEMICAL EQUILIBRIUM
RM-3935-PR N64-14011 05-07

DIGITAL COMPUTER APPROXIMATION OF AUTOMATIC CONTROL PIECEWISE LINEAR SYSTEMS BY INTEGRAL EQUATIONS N64-14261 06-20

ELECTRONIC DIGITAL COMPUTER CALCULATION OF CHLORINE CONTINUOUS ABSORPTION COEFFICIENT
SSD-TDR-63-251 N64-14306 06-23

ROLE OF CYBERNETICS IN MEDICINE - COMPUTERS FOR DIAGNOSIS OF DISEASES AND ANALYSIS OF PATIENT CONDITION N64-14334 06-16

DIGITAL SYSTEM FOR MEASURING SPACE-TIME & STATISTICAL DISTRIBUTIONS OF VALUES & DATA PROCESSING
JPRS-22930 N64-14522 06-20

DIGITAL COMPUTER ANALYSIS OF ELECTRIC HEATING ELEMENT PRODUCTION PROCESSES
JPRS-23041 N64-14525 06-20

APPLICATION OF LIMITED AND SATURATED TRANSISTOR CIRCUITS WITH DIRECT COUPLING TO COMPUTERS
FTD-TT-62-1869/1&2 N64-14621 06-09

COMPUTER FOR MEASURING DIRECTIVITY FACTOR FOR ELECTROACOUSTIC TRANSDUCERS
NEL-1196 N64-14635 06-15

SURVEY OF ELECTRONIC DIGITAL COMPUTING SYSTEMS
BRL-1227 N64-14718 06-20

DIGITAL COMPUTER CODING METHODS FOR THERMAL NEUTRON SPECTRA
BNL-821/T-319/ N64-14721 06-23

DIGITAL COMPUTER SOLUTION OF CONDENSATION IN HIGHLY EXPANDED FLOWS
ARL-63-206 N64-14769 06-20

DIGITAL COMPUTER STUDY OF SELF-COOLED ROCKET NOZZLE AND MATERIAL TESTS FOR SMALL AND LARGE ROCKET ENGINES
R-3853-2 N64-14824 06-27

COMPUTER FOR ANALYZING OIL-BEARING STRATA - GEOLOGY
JPRS-23247 N64-14995 06-20

ROTATION-BALANCE AERODYNAMIC WIND TUNNEL DATA AND DIGITAL COMPUTER STUDY OF DEVELOPED SPINS AND RECOVERY OF SWEPTBACK-WING AIRCRAFT CONFIGURATION
NASA-TN-D-2181 N64-15330 07-04

DIGITAL COMPUTER OUTPUT DATA LINK AND PROGRAMMING DEVICE FOR ANALOG COMPUTER
EUR-410.E N64-15717 07-20

DIGITAL COMPUTER PROGRAM FOR AUTOMATIC ENUMERATION OF COSETS
NASA-CR-55654 N64-16112 07-20

FLIGHT CONTROL COMPUTER FOR SATURN LAUNCH VEHICLE N64-16170 08-22

APOLLO SPACECRAFT GUIDANCE COMPUTER N64-16174 08-22

COMPUTER FACILITY AND TRAINING PROGRAM AT INTERNATIONAL METEOROLOGICAL CENTER - PROGRAM FOR SHIP WEATHER REPORTS AND RADIOSONDE PROCESSING N64-16304 08-20

DIGITAL COMPUTER USED TO DETERMINE POSITION OF LUMINOUS VAPOR TRAIL OR CLOUD
AFCRL-64-225 N64-16565 08-21

FLIGHT DATA COMPUTER AS REENTRY CONTROL DIRECTOR
SMFD-2-6 N64-16824 08-20

UNIVERSAL DIGITAL OPERATIONAL FLIGHT TRAINER - DIGITAL COMPUTER FOR FLIGHT SIMULATION
AMRL-TDR-63-133 N64-16827 08-10

CONTROL SYSTEMS, CODING, PROGRAMMING, AND COMPUTERS IN CYBERNETICS
JPRS-23700 N64-16860 08-16

ALGORITHM FOR COMPUTER GENERATION OF PSEUDORANDOM PERMUTATIONS OF NUMBERS
ONR-RM-93 N64-16864 08-20

COMPUTERS IN LIFE SCIENCES - BIBLIOGRAPHY N64-17491 09-16

DIGITAL COMPUTER SYSTEMS & COMPONENTS, AUTOMATIC SPEECH RECOGNITION RESEARCH
ESD-TDR-63-575 N64-17628 09-01

SAMPLED DATA CONTROL SYSTEM COMBINED WITH CONVENTIONAL & CONTINUOUS CONTROL SYSTEM FOR INCREASED COMPUTER RELIABILITY N64-17786 09-17

EFFECTS OF NOISE IN PICTURE PROCESSING & CODING COLOR PICTURES, SEQUENTIAL DECODING FACILITY, AND ERROR BOUND FOR FIXED-TIME CONTINUOUS CHANNELS N64-17880 10-08

MULTIUSER COMPUTER FACILITY N64-17888 10-20

FIELD ANALYSIS BY INTEGRALS APPLIED WITH ELECTRONIC COMPUTER TO TEST FIELDS OVER SURFACE OF SPHERE
NASA-CR-53470 N64-18171 10-12

SATELLITE COMMUNICATIONS - PROPAGATION, ANTENNA AND RECEIVER FACTORS, COMPUTER USE, AND GROUND STATION SITING N64-18242 10-09

DISTRIBUTION FUNCTION FOR LENGTH OF MAXIMUM CARRY IN ADDING SECTION OF COMPUTER
JPRS-24073 N64-18399 10-20

INFORMATION PROCESSING BY BIOLOGICAL SYSTEMS AND MACHINES - BIONICS
ASD-TDR-63-946 N64-18826 11-16

MATHEMATICS OF BIONICS, COMPUTER HARDWARE IN MEDICAL ELECTRONICS, AND IN BIOENGINEERING N64-18827 11-16

EFFECT OF EXTERNAL FORCES ON SINGLE VIBRATIONAL FREQUENCY IN COMPUTERS WITH MULTIPLE-DEGREE-OF-FREEDOM SYSTEM - MATRIX ALGEBRA - U.S.S.R.
JPRS-24138 N64-18965 11-23

DATA HANDLING SYSTEMS RESEARCH - DIGITAL COMPUTER, COMPUTER COMPONENT, PSYCHOLOGY, AND CONTROL THEORY
ESD-TDR-64-31 N64-19108 11-20

FEASIBILITY OF TRACK-WHILE-SCAN NAVIGATION SYSTEM AND FORMAT FOR COMPUTER DATA PROCESSING
NASA-CR-53515 N64-19256 11-20

DIGITAL COMPUTER DESIGN TECHNIQUES, HEURISTIC PROGRAMMING AND CODING STATES OF SWITCHING CIRCUITS
RTD-TDR-63-4173, VOL. 3 N64-19657 12-20

DIGITAL COMPUTER PROGRAMS FOR DERIVATION OF MOTION EQUATIONS OF COMPLEX SYSTEMS AND FOR DETERMINATION OF STABILITY BOUNDARIES OF NONLINEAR SYSTEMS
AE63-1079 N64-19658 12-20

NABUR - NAREC ASSEMBLER FOR BURROUGHS D825 MODULAR

DATA PROCESSING COMPUTER
NRL-3974 N64-20356 13-20

ESTIMATING FIX ACCURACY OF RADIO NAVIGATION SYSTEM
NEL-1188 N64-20374 13-22

INVESTIGATION AND ANALYSIS OF CIRCUIT COMPLEXES FOR SELF-REPAIRING SYSTEM OF COMPUTER
AFCRL-63-582 N64-21144 14-20

GEMINI PROJECT - PROGRAM PLAN FOR LAUNCH VEHICLE GUIDANCE COMPUTER
AD-431251 N64-21349 14-01

MICROMINIATURE SEMICONDUCTOR CIRCUITS FOR AIRBORNE EQUIPMENT, COMPUTER CIRCUITRY, & PORTABLE INSTRUMENTS N64-21401 14-09

CORRESPONDENCE BETWEEN FLUID DYNAMICS AND PARTICLE AND FORCE MODELS FOR HIGH SPEED COMPUTER CALCULATIONS
LA-2806 N64-21615 15-11

SUPERSONIC AIRCRAFT, MANNED SPACE FLIGHT SIMULATION, ELECTRONIC COMPUTERS, AND MAGNETOPLASMADYNAMICS RESEARCH N64-22417 15-29

BLOCK RELAXATION BY COMPUTER
MRC-477 N64-22604 15-20

COMPUTER AUTOMATED INTERFERENCE PREDICTION DATA PROCESSING SYSTEM N64-22834 16-09

ANALYTIC CALCULATION ON ELECTRONIC COMPUTER FOR SOLUTION OF DIFFERENTIAL EQUATIONS N64-23398 16-20

ALGORITHM FOR COMPUTER SOLUTION TO BOUNDARY PROBLEMS
FTD-TT-63-1078/1&2 N64-23673 16-20

COMPUTER EVALUATION OF WINDS FROM METEOROLOGICAL ROCKET SONDE MEASUREMENTS
NASA-TM-X-51743 N64-24018 16-21

ERRORS OF MULTIPLIER & SUMMING CIRCUIT OF POTENTIOMETRIC COMPUTERS N64-24517 17-09

FORTRAN II COMPUTER PROGRAM FOR USE WITH UNIVAC 80 SOLID-STATE COMPUTER FOR SOLVING DIFFERENTIAL EQUATIONS OF SIMPLY-SUPPORTED CYLINDRICAL SHELLS N64-24841 17-33

APPLICATION OF TUNNEL DIODE IN HIGH SPEED COMPUTERS
JPRS-25368 N64-26057 18-09

DIGITAL COMPUTERS, COMPUTER COMPONENTS, PSYCHOLOGY, AND CONTROL
ESD-TDR-64-57 N64-26888 18-01

FEASIBILITY OF HIGH SPEED COMPUTERS IN WHICH ALL SIGNALS ARE IN FORM OF OPTICAL ENERGY
RADC-TDR-64-123 N64-26935 18-20

CYBERNETICS AND DEVELOPMENT OF COMPUTERS
JPRS-25714 N64-27057 19-14

DESIGN OF TRAPPED-FLUX SUPERCONDUCTIVE MEMORIES FOR ELECTRONIC COMPUTERS
JPRS-25634 N64-27320 19-09

SUPERCONDUCTIVE MEMORY ELEMENTS FOR COMPUTER TECHNOLOGY
JPRS-25648 N64-27321 19-09

THERMOLUMINESCENT DOSIMETER COMPUTER-INDICATOR SYSTEM
S-248-R N64-27915 20-15

FILMLESS SPARK CHAMBER TECHNIQUES AND ASSOCIATED COMPUTER USE - CONFERENCE
CERN-64-30 N64-28012 20-09

ULTRASONIC LIGHT MODULATOR TO INTRODUCE ACTIVE SIGNAL INTO LIGHT BEAM FOR COMPUTING PURPOSES
REPT.-2900-444-R N64-28113 20-15

COMPUTER EQUIPMENT FOR GENERATION AND DISPLAY OF THREE DIMENSIONAL CURVILINEAR FIGURES
ESL-TM-167 N64-28145 20-20

MATHEMATICAL METHODS AND ELECTRONIC COMPUTERS FOR SOLVING HYDROLOGICAL PROBLEMS N64-28404 20-12

REQUIREMENTS FOR HARDWARE COMPUTER USING IPL-V INSTRUCTION SET
ANL-6888 N64-28449 20-08

PROCESS ON DEMAND COMPUTER SYSTEM N64-29117 21-08

REAL TIME COMPUTER SYSTEM FOR PREDICTING MISSILE IMPACT POINT N64-29118 21-08

MULTI-USER COMPUTER SYSTEM FOR EDUCATION AND RESEARCH PROVIDING CONTINUOUS ACCESSIBILITY AND FAST RESPONSE
NASA-CR-55133 N64-29176 21-20

COMPUTER RECOGNITION OF HANDWRITTEN WORDS N64-29385 21-20

PNEUMATIC LOGIC ELEMENTS IN RELATION TO ELECTRONIC COUNTERPARTS FOR OPERATION OF COMPUTERS AT LOW SPEEDS
NASA-CR-58360 N64-29569 21-09

COMPUTER LOGIC ELEMENTS USING MAGNETIC CORES AND TRANSISTORS SINGLY AND IN COMBINATION
JPRS-26428 N64-29674 21-09

FERROELECTRICS AND FERRIELECTRICS IN COMPUTERS
RTD-TDR-63-4002 N64-30706 22-25

METHODS OF IMPROVING COMPUTER RELIABILITY
EF-3765-5 N64-30774 22-09

MANUFACTURE OF RELIABLE ELECTRONIC COMPUTERS
JPRS-26687 N64-31311 22-17

AUTOMATIC RECOVERY FROM TRANSIENT MALFUNCTIONS IN SPACE COMPUTER
AL-TDR-64-142 N64-32210 23-09

OPTIMUM PRIORITY ASSIGNMENT FOR PROCESSING RANDOM ARRIVALS ON SHARED COMPUTER SYSTEM
REPT.-04967-2-T N64-32507 23-20

TIME-SHARING SYSTEM FOR COMPUTER PROVIDING SIMULTANEOUS USER ACCESS
SP-1499 N64-32968 24-10

MULTI-USER COMPUTER FACILITY FOR EDUCATION AND RESEARCH N64-33263 24-10

COMPUTER DESIGN
HIGH EFFICIENCY ELECTRONIC COMPUTING SYSTEMS - CYBERNETICS N64-12452 04-20

COMPUTER MODEL FOR ANIMAL BEHAVIOR STUDY AND INSTRUCTION FOR RECOGNITION - CYBERNETICS N64-12525 04-16

ADAPTIVE CONTROLLER-EQUIPMENT MODULE - HUMAN CONTROLLER, SATELLITE COMPUTER, DISPLAYS AND CONTROLS FOR AIR TRAFFIC REGULATION N64-13005 04-14

DIGITAL AND ANALOG SYNTHESIS OF OPTIMUM AND QUASI-OPTIMUM MINIMUM-TIME CONTROLS FOR SYSTEMS WITH REAL, NULL, AND COMPLEX EIGENVALUES
AD-429415 N64-15823 07-20

DESIGN OF COMPUTER COMPONENT FOR SUMMATION OF DATA IN BINARY CODE
FTD-TT-63-175/1&2 N64-16416 08-20

LOGICAL DESIGN OF ADVANCED ADAM COMPUTER AND PROGRAMMING
AFCRL-63-510, APPEND. N64-16432 08-20

DIAGNOSABLE ARITHMETIC UNIT FOR DIGITAL COMPUTER
NASA-CR-53575 N64-18452 10-20

MANAGEMENT PLANNING OF RESEARCH ON COMPUTER DESIGN AND CIRCUITS
RTD-TDR-63-4173 N64-18939 11-20

LOGIC DESIGN FOR COMPUTERS - TERNARY AND THRESHOLD LOGIC
RTD-TDR-63-4173, VOL. 2 N64-18940 11-20

REGIONAL RESEARCH CENTER FOR COMPUTER TECHNOLOGY AND RESEARCH IN BIOMEDICAL SCIENCES, LABORATORY INSTRUMENT COMPUTER EVALUATION PROGRAM
NASA-CR-53599 N64-19259 11-20

MAGNETIC DRUM MEMORY AS LOW COST STORAGE DEVICE FOR COMPUTER AND SWITCHING CONTROL SYSTEMS
N64-19503 12-09

DIGITAL COMPUTER DESIGN TECHNIQUES, HEURISTIC PROGRAMMING AND CODING STATES OF SWITCHING CIRCUITS
RTD-TDR-63-4173, VOL. 3 N64-19657 12-20

PHYSICS & ELECTRONICS RESEARCH - SEMICONDUCTORS, INFRARED RADIATION, COMPUTER DESIGN, MASERS, LASERS, RADIO ASTRONOMY, & RADIO METEOROLOGY
ONRL-9-64 N64-20308 13-01

COMPUTER DESIGN AND PROGRAMMING FOR DATA PROCESSING LINK BETWEEN TRACKING RADAR PROGRAMMER AND CONTROL CENTER
RADC-TDR-63-494 N64-21232 14-08

LOW TEMPERATURE, SUPERCONDUCTING COMPUTING ELEMENTS
REPT.-8971-6009-RU-000 N64-24001 16-13

DATA COMMUNICATIONS COMPUTER SYSTEM DESIGN
N64-24855 17-08

SURFACE AND ATOMIC PHYSICS, COMPUTER DESIGNS, PLASMA PHYSICS, SYSTEM DESIGNS, MAGNETIC SUPERCONDUCTORS, VOLTAGE BREAKDOWN, AND THIN FILMS RESEARCH
AD-438840 N64-25885 18-01

FLOW DIAGRAM FOR DATA PROCESSOR - COMPUTER DESIGN
AFCRL-64-454/1/ N64-26944 18-20

PNEUMATIC LOGIC ELEMENTS IN RELATION TO ELECTRONIC COUNTERPARTS FOR OPERATION OF COMPUTERS AT LOW SPEEDS
NASA-CR-58360 N64-29569 21-09

COMPUTER LOGIC ELEMENTS USING MAGNETIC CORES AND TRANSISTORS SINGLY AND IN COMBINATION
JPRS-26428 N64-29674 21-09

DESIGN AND DEVELOPMENT OF REAL TIME, AUDIO BANDWIDTH, HIGH SPEED CORRELATOR
RADC-TDR-64-158 N64-29931 21-09

CENTRALLY CONTROLLED ITERATIVE ARRAY COMPUTER - PARALLEL PROCESSING COMPUTER SYSTEM - OPERATIONS AND PROGRAMMING
RADC-TDR-64-251 N64-29970 21-10

PROPAGATION LIMITED COMPUTER NETWORK
AFCRL-64-376 N64-29996 21-09

EVALUATION OF SILICON INTEGRATED CIRCUITS, THIN FILM DEVICES, AND HYBRID DEVICES FOR DIGITAL COMPUTER DESIGN
EF-3765-6 N64-30196 21-25

RANDOM BREAKDOWNS IN DIGITAL COMPUTERS
N64-30218 22-09

COLLECTION OF ARTICLES ON MATHEMATICAL LOGIC, CYBERNETICS, AND COMPUTER TECHNOLOGY
JPRS-26740 N64-31037 22-20

COMPUTER MATHEMATICS AND ENGINEERING
JPRS-26718 N64-32745 24-20

LOGICAL DESIGN OF SPECIAL PURPOSE ONBOARD DIGITAL COMPUTER FOR OPTIMUM THRUST CONTROL
NASA-CR-59077 N64-32989 24-27

COMPUTER METHOD
COMPUTER CALCULATION OF LOCATION, CAPACITY, CONSTRUCTION SCHEDULES, PRIORITIES, & DEVELOPMENT OF TRANSPORTATION NETWORK
JPRS-19768 N64-10832 02-20

COMPUTER CALCULATION OF CHARACTERISTICS OF CYLINDRICAL DIELECTRIC WAVEGUIDE MODE PROPAGATION
AFCRL-63-304 N64-12231 03-09

INFORMATION THEORY, CONTROL PROCESSES, AND COMPUTING SYSTEMS - CYBERNETICS
JPRS-22224 N64-12451 04-01

AUTOMATIC DIGITAL COMPUTER METHOD FOR STEADY-STATE SOLUTIONS TO NAVIER-STOKES EQUATION
ARC-R&M-3331 N64-13356 04-20

COMPUTER TECHNIQUE FOR SOLVING SYSTEM OF NORMAL EQUATIONS ARISING FROM ANALYTICAL PHOTOGRAMMETRIC MULTIPLE STATION AEROTRIANGULATION
RADC-TDR-63-476 N64-14298 06-20

CORTICAL-SUBCORTICAL RELATIONSHIPS OF CHIMPANZEE DURING DIFFERENT PHASES OF SLEEP - EEG COMPUTER ANALYSIS
NASA-CR-55689 N64-16324 08-16

COMPUTER SOLUTION OF BOUNDARY LAYER EQUATIONS FOR COMPRESSIBLE LAMINAR FLOW
DOUGLAS PAPER-1657 N64-16506 08-11

AUTOMATED VERSION OF AS-11A ANALYTICAL STEREOPLOTTER - SYSTEM DESIGN AND ANALYSIS
RADC-TDR-63-539 N64-16972 09-15

DIGITAL COMPUTER METHOD OF LOCATING HIGH ALTITUDE VAPOR CLOUDS USING PHOTOGRAPHS N64-17004 09-20

UNITARY-TRIANGULAR FACTORIZATION FOR CALCULATION OF MATRIX EIGENVALUES ON DIGITAL COMPUTER
NYO-10437 N64-17569 09-20

IBM 7090 FORTRAN SUBROUTINE FOR MAKING LINEAR, LOGARITHMIC, & SEMILOGARITHMIC GRAPHS
ORNL-3581 N64-17717 09-20

ACCURACY OF IBM 7094 FORTRAN IV SUBROUTINES
N64-18231 10-20

PRINTER PLOTTING SYSTEM CONSISTING OF IBM 7090 & 1401 COMPUTER SUBROUTINES - USERS MANUAL
NASA-TN-D-2174 N64-18728 11-20

PRINTER PLOTTING SYSTEM CONSISTING OF IBM 7090 & 1401 COMPUTER SUBROUTINES - INSTRUCTION MANUAL
NASA-TN-D-2175 N64-18729 11-20

COMPUTER EVALUATION OF INFINITE INTEGRALS OF CIRCULAR CYLINDRICAL SURFACE WITH BESSEL FUNCTIONS
DTMB-1580 N64-20341 13-20

COMPUTER ORIENTED RESEARCH IN SPACE RELATED SCIENCES
NASA-CR-56097 N64-20684 13-01

ANNOTATED BIBLIOGRAPHY ON DIGITAL COMPUTER METHODS OF ELECTRICAL AND ELECTRONIC SYSTEMS DESIGN
SB-63-65 N64-20895 14-09

AUTOMATED COMPUTER ORIENTED INFORMATION CLASSIFICATION SYSTEM
RADC-TDR-64-14 N64-21180 14-01

COMPUTER AUTOMATED MATHEMATICAL MODELS FOR QUICK TIME SOLUTIONS TO ELECTROMAGNETIC COMPATIBILITY PROBLEMS N64-22835 16-09

AUTOMATIC PROPAGATION COMPUTATION ROUTINE FOR HORIZONTALLY AND VERTICALLY POLARIZED TROPOSPHERIC WAVE TRANSMISSION N64-22837 16-09

COMPUTER ANALYSIS OF GAS-LIQUID CHROMATOGRAMS
N64-22861 16-16

COMPUTER METHODS IN STRATOSPHERIC ANALYSIS & WEATHER FORECASTING N64-24465 17-21

COMPUTER PROGRAMS AND SUBROUTINES FOR VARIOUS MATHEMATICAL METHODS OF PROBLEM SOLVING
D1-82-0151 N64-25860 18-20

COMPUTER PROCESSING OF DIGITIZED SATELLITE VIDICON CLOUD PICTURES

NSL-26 N64-26492 18-32

COMPUTER METHOD FOR REPRESENTATION OF THREE DIMENSIONAL SURFACE
SC-RR-64-546 N64-26539 18-20

COMPUTER METHODS OF FITTING SURFACES TO ASSAY AND OTHER DATA BY REGRESSION ANALYSIS
BM-RI-6508 N64-26693 18-20

COMPUTER SOLUTION FOR HYDROSTATIC BEARINGS WITH VARIABLE FILM THICKNESS
NASA-CR-56898 N64-27280 19-20

AUTOMATIC COMPUTER METHODS FOR DETERMINING PARAMETERS OF HUMAN PILOT PERFORMANCE DESCRIBED BY LINEAR TIME-INVARIANT MODEL
NASA-CR-56373 N64-27385 19-14

COMPUTER USE IN SPACE RELATED RESEARCH PROJECTS
NASA-CR-58180 N64-27894 20-01

COMPUTER ANALYSIS OF PROBLEMS OF FOUR CIRCULAR-COIL SYSTEM N64-28213 20-23

MACHINE RECOGNITION - CONSTRUCTION AND DISPLAY OF THREE-DIMENSIONAL ARRAY OF SOLID OBJECTS FROM SINGLE TWO-DIMENSIONAL PHOTOGRAPH BY COMPUTER
MIT-TR-315 N64-29019 21-15

COMPUTER SOLUTION OF LINEAR ALGEBRAIC SYSTEM N64-29647 21-20

LOG PERIODIC MONOPOLE ANTENNA - COMPUTER ANALYSIS AND RADIATION PATTERN
NASA-CR-58628 N64-29701 21-08

CAVITY-MOUNTED LOG-PERIODIC MONOPOLE ANTENNA ANALYZED BY COMPUTER N64-29702 21-08

LOG COMPRESSION AMPLIFIER CIRCUIT ANALYSIS BY DIFFERENT COMPUTER METHODS
NASA-CR-58820 N64-30506 22-09

DIGITAL COMPUTER METHOD FOR CALCULATION OF ACID DISSOCIATION CONSTANTS
IS-822 N64-30667 22-07

COMPUTER ANALYSIS OF CHEMICAL EXCHANGE RATE FROM NUCLEAR MAGNETIC RESONANCE SPIN ECHOES
TR-71 N64-30737 22-07

COMPUTER METHODS FOR NUMERICAL SOLUTION OF SYSTEMS OF NONLINEAR DIFFERENTIAL EQUATIONS
NASA-TT-F-8356 N64-31201 22-20

PREDICTING TWO-PHASE SERVOMOTOR CHARACTERISTICS BY COMPUTER N64-31488 23-17

INPUT DEVICE FOR CONVERSION OF PHYSIOLOGICAL DATA RECORDED ON MAGNETIC TAPE INTO BINARY CODE FOR COMPUTER PROCESSING N64-31537 23-16

COMPUTER ALGORITHM FOR ANALYZING IMPULSE ACTIVITY OF CENTRAL NEURONS N64-31538 23-16

COMPUTER ANALYSIS OF IONOSPHERIC WIND DATA - DRIFT DIRECTION AND VELOCITY IN E LAYER REFLECTIONS OVER PUERTO RICO
AFCRL-64-603 N64-31992 23-12

COMPUTER APPLICATIONS IN MEDICINE AND BIOLOGICAL SCIENCES - BIBLIOGRAPHY
SP-1025/001/00 N64-32324 23-16

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RRL PUBL.-220 N64-32368 23-12

MATHEMATICAL ANALYSIS OF COMPUTER TIME SHARING SYSTEMS
AROD-9608-37 N64-32535 23-20

MONTE CARLO COMPUTER SOLUTIONS OF KNUDSEN AND NEAR-KNUDSEN FLOW THROUGH WIDE, PARALLEL, AND SKEWED FLAT PLATES
NASA-TR-X-53112 N64-32644 23-11

COMPUTER PROGRAM DOCUMENTATION - MATHEMATICAL AND SUBROUTINE DESCRIPTION OF ESPOD PROGRAM
STL-8497-6065-RU000 N64-33146 24-20

COMPUTER PROGRAM
SA CODE
SA FORTRAN
SA MINIMUM VARIANCE ORBIT DETERMINATION /MINIVAR/
CF DATA PROCESSING
ONE-DIMENSIONAL MULTIGROUP P-3 COMPUTER PROGRAM FOR TREATING FAST NEUTRONS BY SPHERICAL HARMONICS APPROXIMATION
WAPD-TM-272 N64-10215 01-20

SEARCH AND DISPLAY UNIT FOR TIMING CODE - COMPUTER PROGRAM FOR DATA RETRIEVAL
PAD-73 N64-10224 01-15

EXPANDED ADDRESS LANGUAGE PROPOSAL FOR COMPUTER PROGRAMS
JPRS-17911 N64-10636 01-20

COMPUTER PROGRAM FOR ORBIT DETERMINATION AND PREDICTION, AND EPHEMERIS CALCULATION N64-10890 02-26

COMPUTER PROGRAM FOR RESOLUTION OF BOOLEAN ALGEBRA EQUATIONS
EUR-126.I N64-10980 02-20

PROBLEMS SET ON COMPUTERS FOR SOLUTION OF DEPENDENCE GRAMMARS
EUR-220.I N64-10981 02-20

COMPUTER PROGRAMS, IMAGE SCANNING LEARNING SYSTEMS AND PRINCIPLES OF THEIR DESIGN
JPRS-18181 N64-11029 02-01

ALGORITHM FOR TEACHING UNIVERSAL COMPUTER TO RECOGNIZE IMAGES OF SIMPLE GEOMETRIC FIGURES - TWO-STAGE PERCEPTRON N64-11030 02-20

ALGORITHM COMPUTER PROGRAM FOR DISCERNING SENTENCE MEANING AND SENSE-MAKING N64-11031 02-20

ALGORITHM COMPUTER PROGRAM WITH VARIABLE PARAMETERS FOR LEARNING TO RECOGNIZE CONFIGURATIONS N64-11032 02-20

COMPUTER PROGRAM MODELING OF NATURAL SELECTION - SIMULATION OF EVOLUTION PROCESSES N64-11033 02-20

DYNAMIC COMPUTER PROGRAM FOR ECONOMICS PROBLEM - RELATION OF PRODUCTION, PRODUCERS, AND CAPITAL N64-11034 02-20

COMPUTER PROGRAM FOR EPITHERMAL NEUTRON CAPTURE PROBABILITY FOR INFINITE PLANE LATTICES
UCRL-7023 N64-11094 02-23

SHEAR LAG ANALYSIS USING MAXWELL-MOHR ANALYSIS ADAPTED BY MATRIX METHOD FOR DIGITAL COMPUTER SOLUTION
NASA-CR-52884 N64-11332 02-20

COMPUTER PROGRAM FOR DETERMINATION OF SINGLE CRYSTAL ORIENTATION
LA-2974 N64-11389 02-26

COMPUTER PROGRAMS AND ROUTINES FOR SUPPORT IN MATHEMATICAL RESEARCH
ANL-6768 N64-11391 02-20

ADVECTION RATES ESTIMATED BY METHOD FOR CALCULATING GRADIENTS OF ADVECTED PROPERTIES - COMPUTER PROGRAM
AFCRL-63-865 N64-11446 03-21

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ORNL-3499, VOL. 1 N64-11472 03-23

COMPUTER PROGRAMS FOR DIAGNOSIS OF HEART AILMENTS N64-11531 03-20

STRUCTURE AND USES OF SIMPLE AND SEQUENTIALLY

FUNCTIONING PERCEPTRONS - COMPUTER PROGRAM
N64-11534 03-16

ALGORITHM OF MINIMIZATION OF INCOMPLETELY SPECIFIED LOGICAL FUNCTIONS - COMPUTER PROGRAM
N64-11615 03-20

COMPUTER PROGRAM FOR MAKING FREQUENCY DISTRIBUTION TABLES
AECL-1837 N64-11655 03-20

COMPUTER PROGRAM FOR CONVERSION OF X-RAY POWDER PATTERN MEASUREMENTS TO REFINED D-SPACING
IS-683 N64-11776 03-20

COMPUTER PROGRAM FOR SWITCHING CIRCUIT ANALYSIS - FUNCTIONAL ANALYSIS OF HYDRAULIC & ELECTRIC CONTROL CIRCUITS
LAMS-2986 N64-12114 03-20

PROPAGATING ELECTROMAGNETIC SIGNALS AT NORMAL INCIDENCE THROUGH PLASMA SHEATH UPON HYPERSONIC BLUNT-NOSED REENTRY BODIES - COMPUTER PROGRAM
RADC-TDR-63-412 N64-12208 03-02

COMPUTER PROGRAM FOR LONG LINE AZIMUTH DETERMINATION FROM RANGE & OPTICAL MEASUREMENTS
AFCRL-63-740 N64-12234 03-20

DIGITAL COMPUTER PROGRAM FOR NONLINEAR PHENOMENON IN TRAVELING WAVE DEVICES AND KLYSTRONS
RADC-TDR-63-398 N64-12651 04-23

ORTHOGONALIZED PLANE WAVE ENERGY-BAND STRUCTURE OF SOLIDS DETERMINED BY AUTOMATIC COMPUTER PROGRAM
LL-TR-295 N64-12928 04-23

ONE-DIMENSIONAL, TIME DEPENDENT, OR STEADY STATE HEAT CONDUCTION CODE FOR IBM 650
IDO-16867 N64-12940 04-20

COMPUTER PROGRAM FOR X-RAY RADIAL SCAN DATA PROCESSING
ONR-TR-33A N64-12992 04-20

COMPUTER PROGRAM FOR DETERMINING RADAR COORDINATES OF BALLISTIC MISSILE
ESD-TDR-63-163 N64-13131 04-20

IBM 7090 CODE FOR COMPUTATION OF ROOTS OF INHOUR EQUATION
IDO-16904 N64-13135 04-23

DEFORMATION AND STRESS ANALYSIS FOR PNEUMATIC AIRCRAFT TIRE USING COMPUTER PROGRAM
NASA-CR-55174 N64-13192 04-17

EIGENVALUE PROBLEM AND APPROACH FOR DETERMINATION OF ANTENNA SYSTEM NATURAL FREQUENCIES & MODES - COMPUTER PROGRAM FOR EIGENVALUES AND VECTORS
NASA-CR-55215 N64-13196 04-20

PROGRAM FOR COMPUTING STANDARD COORDINATES OF SUN
BRL-MEMO-1517 N64-13322 04-05

COMPUTER PROGRAM FOR SOLUTION OF FLUTTER AND VIBRATION PROBLEMS FOR MULTIPLE COMPONENT SYSTEM
SSD-TDR-63-158 N64-13628 05-33

SIMULATION OF RENDEZVOUS AND DOCKING SYSTEMS IN SPACE VEHICLE USING IBM 7090 COMPUTER PROGRAM
AMRL-TDR-63-100 N64-13719 04-29

IMPROVED ACCURACY OF ANALYTICAL AERIAL PHOTOGRAMMETRIC TRIANGULATION PROBLEM BY INCLUDING ERROR CORRECTION IN COMPUTER PROGRAM
R62-4 N64-14014 05-20

REAL-TIME COMPUTER PROGRAM FOR CDC 160-A COMPUTER TO CONTROL TELEMETRY ANTENNA
REPT.-62G-3 N64-14015 05-08

COMPUTER PROGRAM FOR CALCULATING DETONATION PROPERTIES OF HIGH EXPLOSIVES - CARBON-HYDROGEN-NITROGEN-OXYGEN SYSTEMS
NOLTR-63-216 N64-14106 05-26

N-DIMENSIONAL SEARCH AND OPTIMIZATION PROCEDURE - COMPUTER PROGRAM
SSD-TDR-63-324 N64-14174 06-20

COMPUTER PROGRAM IN FORTRAN-2 LANGUAGE FOR STRESS ANALYSIS OF THICK SHELL OF REVOLUTION WITH AXISYMMETRIC PRESSURES, TEMPERATURES, AND LOADS
WAPD-TM-398 N64-14539 06-33

SOURCE TERM COMPUTER PROGRAM - INTEGRATED TREATMENT OF REENTRY PROBLEMS N64-14578 06-23

COMPUTER PROGRAM FOR ANALYSIS OF ONE-DIMENSIONAL MAGNETOHYDRODYNAMIC CHANNEL FLOW
AEDC-TDR-63-215 N64-14638 06-20

COMPUTER PROGRAM FOR ANALYZING BEHAVIOR OF MATERIALS UNDER EXPOSURE TO SOLID PROPELLANT ROCKET NOZZLE ENVIRONMENT
RTD-TDR-63-1076 N64-14686 06-19

COMPUTER PROGRAMS FOR PROCESSING SIGNALS RECEIVED IN RADAR ASTRONOMY
REPT.-64G-4 N64-14837 06-20

ALGORITHM FOR DOCUMENTARY ANALYSIS & COMPUTER PROGRAMS FOR IBM 650 N64-14914 06-20

COMPUTER PROGRAM FOR CALCULATING WIND COMPENSATION FOR MISSILES IN FREE FLIGHT
SWC-TDR-63-67 N64-15078 07-22

COMPUTER PROGRAM FOR SOLUTION OF NORMAL SHOCK WAVES IN IDEAL GAS MIXTURES
LA-2980 N64-15179 07-20

COMPUTER PROGRAM FOR SATELLITE POSITION COMPUTATION AT SPECIFIED TIME INCREMENTS
TM-/L/-742/006/00 N64-15367 07-20

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TECH. REPT.-283 N64-15421 07-03

COMPUTER PROGRAM FOR USING SPECTRUM CODES IN PREPARING MULTIGROUP CROSS-SECTION INPUT ON PUNCHED CARDS
GA-4436 N64-15526 07-20

COMPUTER PROGRAM FOR ANALYZING GENERAL INSTABILITY OF ORTHOTROPIC CIRCULAR CYLINDER SUBJECTED TO AXIAL LOAD, END MOMENT, & UNIFORM RADIAL PRESSURE
NASA-CR-55703 N64-15537 07-33

IBM 7090 COMPUTER PROGRAM FOR OPTIMAL SHIMMING AND TRIMMING OF MAGNETS TO OBTAIN SPECIFIED MAGNETIC FIELDS
CERN-64-3 N64-15610 07-23

COMPUTER PROGRAMMING FOR HARD POINT DEFENSE AND OTHER FLYING SPOT SCANNING DEVICES USING 7090 COMPUTERS
CERN-63-34 N64-15615 07-20

DIGITAL COMPUTER OUTPUT DATA LINK AND PROGRAMMING DEVICE FOR ANALOG COMPUTER
EUR-410.E N64-15717 07-20

YOGI-N - MONTE CARLO COMPUTER PROGRAM WRITTEN IN FORTRAN II FOR CALCULATION OF NEUTRON ABSORPTION IN RECTANGULAR & CYLINDRICAL SYSTEMS
UCRL-7630 N64-15827 07-20

DIGITAL COMPUTER PROGRAM FOR AUTOMATIC ENUMERATION OF COSETS
NASA-CR-55654 N64-16112 07-20

COMPUTER PROGRAM FOR TRANSFORMATION OF COORDINATES FROM GEODETIC SURVEYING N64-16208 09-21

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EUR-531.E N64-16925 09-21

COMPUTER PROGRAM FOR ANALYSIS OF ULTRACENTRIFUGAL ULTRAVIOLET SEDIMENTATION BOUNDARIES - BODPRO
LA-3026 N64-17240 09-21

INFORMATION-MANAGEMENT SUBSYSTEM OF COOPERATIVE MAN/COMPUTER SYSTEM FOR PRODUCTION OF COMPUTER PROGRAMS

ESD-TDR-64-177 N64-17288 09-01

COMPUTER PROGRAMS FOR CALCULATING RELATIVE INTENSITIES IN VIBRATIONAL STRUCTURE OF ELECTRONIC TRANSITIONS
UCRL-10925 N64-17292 09-23

ANGULAR TRACKING RATES REQUIRED OF INSTRUMENTS FOR CONTINUOUS VIEWING OF BALLISTIC REENTRY VEHICLE - FORTRAN PROGRAMS
TN-AMSMI-RNR-63-2 N64-17309 09-08

IBM 7090 COMPUTER PROGRAM FOR STRESSES AND DEFORMATIONS OF CROSS SECTIONS OF BEAMS DUE TO MECHANICAL OR THERMAL LOADING
ASRMDS-TM-62-35 N64-17366 09-20

INFORMATION RETRIEVAL AND COMPUTER PROGRAMS AS APPLIED TO AERODYNAMICS
CPIA-PUBL-45 N64-17523 09-01

DESIGN CALCULATION PROCEDURE AND FORTRAN COMPUTER PROGRAM FOR SYNCHRONOUS, WOUND-POLE, SALIENT-POLE GENERATORS
NASA-CR-53221 N64-17603 09-06

DIGITAL SIMULATION PROGRAM FOR STUDYING BOOST, MIDCOURSE, & HOMING PHASE OF TARGET INTERCEPTION BY INTERCEPTOR USING PROPORTIONAL NAVIGATION
SSD-TDR-64-7 N64-17615 09-01

IBM 7090 COMPUTER PROGRAM FOR MULTICAVITY KLYSTRON STUDIES
AD-420687 N64-17664 09-20

CONVERTER FOR TRANSLATION OF ALGOL 60 PROGRAMS INTO MACHINE LANGUAGE
JPRS-23955 N64-17714 09-20

COMPUTER PROGRAM FOR TEMPERATURE EFFECTS ON FISSION PRODUCTS FROM GAS STREAMS ONTO CONDUIT SURFACE
ORNL-3542 N64-17743 09-23

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EUR-532.E N64-17812 09-20

ON-LINE SOLUTION TO SAMPLED-DATA TIME OPTIMAL CONTROL USING SPECIAL PURPOSE COMPUTER
N64-18109 10-20

COMPUTER PROGRAMS FOR BOUNDARY LAYERS AND INVISCID FLOW FIELD AROUND HYPERSONIC AIRCRAFT
NASA-CR-53397 N64-18134 10-11

METHOD FOR COMPUTING REACTION RATES FOR HYDROGEN-AIR MIXTURES IN RAMJET ENGINE N64-18137 10-26

DIGITAL COMPUTER PROGRAM FOR ANALYZING SUPERSONIC POTENTIAL FLOW IN DUCTS WITH UNIFORM INLET CONDITIONS
ARC-CP-649 N64-18155 10-20

COMPUTER PROGRAM FOR DETERMINATION OF LETHAL DEBRIS DISTRIBUTION - PROBABILITY
TDR-269/A4306/-5 N64-18190 10-23

MOTION EQUATIONS FOR HEAVE, PITCH, AND SURGE MOTIONS OF TILT-FLOAT VEHICLES IN WAVES PROGRAMMED FOR DIGITAL COMPUTER
AD-434163 N64-18195 10-11

COMPUTER PROGRAMS FOR INELASTIC KINEMATICS AND DENSITY OF PARTICLES ON PLANE
CERN-64-8 N64-18205 10-23

MINIMUM VARIANCE /MINIVAR/ ORBIT DETERMINATION - COMPUTER PROGRAM
NASA-CR-55921 N64-18226 10-10

TIME ADJUSTMENT AND AMBIGUITY RESOLUTION OF MINIVAR INPUT DATA - TRACKING DATA
N64-18230 10-08

UTILIZATION OF HISTORY TAPE AND TAPE LIBRARY PROCEDURES OF ALTERNATE EXECUTIVE ROUTINE FOR MINIVAR COMPUTER PROGRAM N64-18238 10-20

COMPUTER PROGRAM FOR WORST-CASE CIRCUIT ANALYSIS - MANDEX N64-18346 10-20

COMPUTER PROGRAM FOR CALCULATION OF DIFFUSION-CONTROLLED REACTION RATES IN ARC-IMAGE REACTOR
AD-434588 N64-18361 10-27

CALCULATION OF LUNAR SURFACE AREA FROM MOON PHOTOGRAPHS USING COMPUTER PROGRAMS
NASA-CR-53588 N64-18434 10-05

HYPERVELOCITY IMPACT CALCULATIONS USING PICWICK COMPUTER CODE
ATL-TDR-64-8 N64-18641 11-23

IBM 7090 COMPUTER PROGRAM FOR DETERMINING PLASMA DENSITY FROM EXPERIMENTAL HYDROGEN SPECTRAL LINE SHAPES
ATN-64/9233/-8 N64-18924 11-24

IBM 7090 COMPUTER PROGRAM TO CONTROL PRESCRIBED CHANGES IN MANNED ORBITAL SPACECRAFT
NASA-TN-D-2237 N64-18957 11-29

COMPUTER PROGRAM FOR PROCESSING INTENSITY DATA COLLECTED ON SINGLE CRYSTAL ORIENTER
LA-3043 N64-19018 11-25

OPTIMUM THRUST PROGRAMMING TO DETERMINE COMPOSITION OF MULTICOMPONENT PROPELLANTS - IBM 7090 AND 7094 COMPUTER PROGRAM
U-2502 N64-19414 12-20

IBM 7090 COMPUTER PROGRAM FOR BEAM OPTICS PROBLEMS ON SYNCHROCYCLOTRON
CERN-64-15 N64-19493 12-20

COMPUTER PROGRAM FOR FINITE DIFFERENCE METHOD SOLUTION OF NONSIMILAR, NONEQUILIBRIUM AIR, LAMINAR AND TURBULENT BOUNDARY LAYER FLOWS
GASL-TR-422 N64-19554 12-11

DIGITAL COMPUTER PROGRAMS FOR DERIVATION OF MOTION EQUATIONS OF COMPLEX SYSTEMS AND FOR DETERMINATION OF STABILITY BOUNDARIES OF NONLINEAR SYSTEMS
AE63-1079 N64-19658 12-20

SNAPKIN COMPUTER PROGRAM FOR SNAP REACTOR KINETIC EQUATIONS
NAA-SR-9190 N64-19712 12-20

GAPLSN - PROGRAM FOR SOLVING ONE-DIMENSIONAL NEUTRON AND PROTON TRANSPORT PROBLEMS
GA-4972 N64-19714 12-20

OPERATIONAL COMPUTING PROGRAM FOR ORBIT DETERMINATION BASED ON SCHMIDT-KALMAN MINIMUM VARIANCE TECHNIQUE FOR PROCESSING TRACKING DATA
NASA-CR-53866 N64-19793 12-29

ULTRAHIGH TEMPERATURE REACTOR EXPERIMENT /UHTREX/ FACILITY & COMPUTER PROGRAM FOR UHTREX HIRING
LAMS-3069 N64-19905 12-23

IBM 704 COMPUTER PROGRAMS FOR NEUTRON ACTIVATION OF FOILS IN SLAB GEOMETRY
ANL-6822 N64-19995 12-20

COMPUTER PROGRAM FOR SIMULATION OF ONBOARD DATA PROCESSOR FOR TRACK-WHILE-SCAN NAVIGATION CONCEPT
NASA-CR-53513 N64-20006 13-20

COMPUTER PROGRAM FOR THERMODYNAMIC ANALYSIS OF CHEMICAL REACTIONS IN TUNGSTEN AND RHENIUM VAPOR PLATING
UCRL-7667 N64-20430 13-20

THETA PLASMA PINCH NUMERICAL ANALYSIS BY COMPUTER PROGRAM
LAMS-2944 N64-20634 13-24

COMPUTER PROGRAM FOR TRAJECTORIES AND PROPERTIES OF SLURRY PARTICLE FALLOUT FROM SEA WATER SURFACE NUCLEAR EXPLOSIONS
USNRDL-TR-724 N64-20861 14-23

IBM 7090 COMPUTER PROGRAM FOR THERMAL UTILIZATION FACTOR IN REACTOR LATTICE CELL
EUR-1606.E N64-20880 14-23

COMPUTER PROGRAM FOR SOLVING COUPLED FIRST DEGREE DIFFERENTIAL EQUATIONS BY MATRIX SERIES EXPANSION
AECL-1898 N64-21018 14-20

IBM 7090 COMPUTER PROGRAM IN FORTRAN FOR PERFORMING POWER SPECTRAL DENSITY ANALYSIS
SRI-MR-8 N64-21336 14-20

DIGITAL COMPUTER PROGRAM FOR MATRIX ANALYSIS OF AEROSPACE STRUCTURES
FDL-TDR-64-18 N64-21439 14-20

COMPUTER PROGRAM FOR CALCULATION OF NONLINEAR VISCOELASTIC WAVE PROPAGATION IN SOILS
BRL-1237 N64-21500 15-20

DIGITAL COMPUTER PROGRAMS FOR CALCULATING BEHAVIOR OF MATERIALS IN SOLID PROPELLANT ROCKET EXHAUST ENVIRONMENT
RTD-TDR-64-43 N64-21596 15-27

GENERAL PROBLEM-SOLVER - COMPUTER PROGRAM FOR PROBLEM SOLVING
RM-3337-PR N64-21688 15-20

COMPUTER PROGRAM FOR SOLUTION OF ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS
CERN-63-7 N64-21732 15-20

IBM 704 CODE FOR FOLDING MAXWELLIAN VELOCITY INTO SUMS OF RESONANCE FORMULAS
LAMS-3075 N64-22110 15-20

X-RAY CRYSTALLOGRAPHY - PROGRAM FOR IBM 709, 7090, & 7094 COMPUTERS
NASA-CR-56472 N64-22426 15-25

COMPUTER PROGRAM FOR DETERMINING IMPINGING RADIATION HEAT LOADS AND TRANSIENT TEMPERATURES OF ORBITING SATELLITES
NASA-CR-56278 N64-22466 15-13

COMPUTER PROGRAM FOR CHEMICAL EQUILIBRIUM COMPLEX - MOLLIER DIAGRAM
DCAS-TDR-62-138, VOL. II N64-22964 16-07

COMPUTER SUBROUTINE FOR INTRODUCING FIXED AND VARIABLE DELAY FUNCTIONS IN ANALOG PROBLEMS
EUR-347.F N64-23047 16-20

COMPUTER PROGRAM FOR TURBULENT BOUNDARY LAYER OF INVISCID FLOW AT HYPERSONIC SPEEDS
NASA-CR-56368 N64-23996 16-11

COMPUTER PROGRAM FOR MONTE CARLO ERROR ANALYSIS OF SCANNING CAMERA NAVIGATION CONCEPT
NASA-CR-56455 N64-24044 16-22

COMPUTER PROGRAM FOR LEAST SQUARES METHOD OF DETERMINING ORBITAL ELEMENTS
NASA-CR-56565 N64-24123 16-2

IBM 7044 COMPUTER PROGRAM IN FORTRAN FOR DETERMINING LAUNCH ANGLES FOR UNGUIDED ROCKETS
ERDA-148 N64-24344 17-2

PRODUCING RANDOM VARIABLES IN COMPUTERS
D1-82-0341 N64-24381 17-20

COMPUTER PROGRAM USING MONTE CARLO METHOD TO CALCULATE PRIMARY AND SECONDARY GAMMA RADIATION TRANSMISSION INFORMATION
REPT.-1223 N64-24879 17-20

COMPUTER PROGRAM FOR CIRCUIT PARAMETERS OF ELECTROLUMINESCENT PHOTOCONDUCTOR - IMAGE INTENSIFIER
MTER-4 N64-24901 17-25

COMPUTER PROGRAMS FOR EIGENVALUE SPACING DISTRIBUTIONS AND MOMENTS
BNL-863/T-346/ N64-24922 17-23

COMPUTER PROGRAM FOR STUDY OF PANEL FLUTTER
NASA-CR-80 N64-24999 17-33

NUMERICAL INTEGRATION OF THEODORSEN TRANSFORMATION BY COMPUTER PROGRAM
ARC-CP-691 N64-25169 17-20

TRANSLATOR COMPUTER PROGRAM FOR TRANSLATION OF ALGOL LANGUAGE PROBLEMS
ORNL-3592 N64-25525 17-20

COMPUTER PROGRAM FOR THRUST IN DUCT OF AIR AUGMENTED ROCKET POWER PLANT
NASA-CR-56832 N64-25570 17-27

IBM COMPUTER PROGRAM FOR CALCULATING KINEMATICS OF TWO- AND THREE-BODY PROBLEMS
LNF-64/23 N64-25671 17-23

COMPUTER PROGRAMS AND SUBROUTINES FOR VARIOUS MATHEMATICAL METHODS OF PROBLEM SOLVING
D1-82-0151 N64-25860 18-20

HYDRAULIC POWER TRANSMISSION BY PULSATING FLOW OR PRESSURE - COMPONENT DESIGN AND ANALOG COMPUTER PROGRAM
RAC-933-5 N64-25924 18-11

SYSTEM OF COMPUTER PROGRAMS FOR ANALYSIS OF TIME SERIES
AD-435778 N64-26054 18-20

COMPUTER PROGRAM TO ANALYZE SPARK CHAMBER DATA OBTAINED BY USE OF AUTOMATIC FLYING SPOT DIGITIZER
BNL-833/T-237/ N64-26274 18-20

FORTRAN COMPUTER PROGRAM FOR SOLVING DIFFERENTIAL EQUATIONS IN HEAT TRANSFER PROBLEM
NASA-CR-56722 N64-26354 18-13

ENVIRONMENTAL DATA AND EQUIPMENT ASSIGNMENTS FOR SAGE AIR DEFENSE SYSTEM COMPUTER PROGRAM ADAPTATION
TM/ADC/820/302/03 N64-26494 18-01

COMPUTER PROGRAMS FOR COMPUTATION OF PARTICLE DENSITY DISTRIBUTION ABOUT OBJECT MOVING THROUGH RAREFIED GAS
ARA-F-9221-4 N64-26708 18-11

IBM 7090 COMPUTER PROGRAM FOR ANALYSIS OF SOLAR REFLECTORS
EDR-3666 N64-26832 18-06

PROGRAM FOR COMPUTING LOOP CURRENTS AS FUNCTION OF TIME IN CIRCUIT CONSISTING OF 14 INDUCTIVELY COUPLED LOOPS
UCRL-7864 N64-26842 18-09

MATRIX FORMULATION AND COMPUTER PROGRAM FOR LARGE CLASS OF NONLINEAR SHELL PROBLEMS
SSD-31116R N64-26847 18-20

AUTOMATIC STAR IDENTIFICATION - COMPUTER PROGRAM
BRL-MEMO-1535 N64-26863 18-20

COMPUTER PROGRAM TO DETERMINE NOZZLE GEOMETRY FOR SUPERSONIC WIND TUNNEL
NOLTR-64-81 N64-26954 18-20

COMPUTER PROGRAM FOR THRUST AUGMENTATION BY ADDING AIR TO FUEL-RICH ROCKET EXHAUST
NASA-CR-56842 N64-27288 19-27

COMPUTER PROGRAM FOR BELLOWS ANALYSIS BASED ON SHELL THEORY EQUATIONS
NAA-SR-9848 N64-27331 19-34

SUBPROGRAM FOR OPTICAL SYSTEM TRACING USING IBM 7090 COMPUTER
WRE-TN-CPD-80 N64-27415 19-23

COMPUTER PROGRAMS FOR PROCESSING CRYSTAL STRUCTURE DATA
ARDD-3083-9 N64-27568 19-20

COMPUTER PROGRAM TO PREDICT SURFACE TEMPERATURES OF ORBITING SATELLITE
NASA-CR-56277 N64-27901 20-21

OPERATIONS AND LANGUAGE FOR DIGITAL COMPUTER PROGRAMMING USING SYSTEMATIC SYNTHESIS TECHNIQUES
RADC-TDR-64-135 N64-28466 20-20

COMPUTER PROGRAM FOR PIPING FLEXIBILITY ANALYSIS - EFFECTS OF PRESSURE, THERMAL EXPANSION, UNIFORM

LOADING, AND CONCENTRATED LOADING
LA-2929 N64-28720 20-17

PROGRAMMING GUIDE FOR UNIVAC 1107 COMPUTER
NASA-TM-X-55040 N64-28761 20-20

COMPUTER PROGRAM FOR CLASSICAL MANY-BODY PROBLEMS IN RADIATION DAMAGE
BNL-7979 N64-28808 20-25

COMPUTER PROGRAMMING ANALYSIS FOR ORBIT DETERMINATION BASED ON MINIMUM VARIANCE TECHNIQUE FOR PROCESSING TRACKING DATA
NASA-TM-X-51928 N64-28830 20-29

COMPUTER PROGRAMS FOR ANALYSIS OF CONNECTIVITIES AND SHAPES OF REGIONS IN DIGITIZED IMAGES
NASA-CR-58608 N64-28836 20-15

INPUT AND OUTPUT REQUIREMENTS FOR COMPUTER PROGRAM FOR ERROR ANALYSIS OF TRACKING SYSTEMS
NASA-TM-X-55052 N64-28931 20-08

EDITING TRACKING DATA FOR IBM 7094 COMPUTER PROGRAM FOR ORBIT DETERMINATION
NASA-CR-58488 N64-29203 21-08

FLAT, DIRECT CONDENSING, CENTRAL FINNED-TUBE RADIATOR - DESIGN STUDY BY DIGITAL COMPUTER
NASA-TN-D-2474 N64-29208 21-06

COMPUTING PROGRAMS FOR COMPLEX BESSEL FUNCTION
NWL-1906 N64-29285 21-20

COMPUTER PROGRAM FOR NUMERICAL SOLUTION TO THREE-DIMENSIONAL DIRICHLET PROBLEM
MRC-384 N64-29309 21-20

COMPUTER CODES FOR DETERMINATION OF ABSORBED SPACE RADIATION DOSE BY SPACECRAFT ON ARBITRARY TRAJECTORY - RADIATION ENVIRONMENT AND SHIELDING
WL-TDR-64-71, VOL. I N64-29329 21-23

COMPUTER CODE FOR EVALUATION OF SPACE RADIATION ABSORPTION IN BODY OF ASTRONAUT
NASA-CR-58292 N64-29363 21-20

COMPUTER PROGRAM FOR EVALUATING SPACE RADIATION HAZARDS FROM ENERGETIC PROTONS AND ELECTRONS IN VAN ALLEN BELT
NASA-CR-58293 N64-29364 21-20

COMPUTER EVALUATION OF SPACE RADIATION HAZARDS AND REQUIREMENT FOR ADDITIONAL RADIATION SHIELDING IN APOLLO SPACECRAFT
NASA-CR-58294 N64-29365 21-20

CALCULATION OF ELECTRON-PRODUCED BREMSSTRAHLUNG RADIATION DOSE THROUGH SEVERAL SLABS OF SHIELD MATERIAL USING IBM 7090 FORTRAN COMPUTER PROGRAM
NASA-CR-58275 N64-29366 21-23

MONTE CARLO PROGRAM FOR EVALUATING RADIATION HAZARDS OF ELECTRONS IN SPACE
NASA-CR-58296 N64-29367 21-20

COMPUTER PROGRAM FOR RADIATION DOSE FROM ELECTRONS PENETRATING THROUGH RADIATION SHIELDING OF SPACECRAFT
NASA-CR-58297 N64-29368 21-20

COMPUTER PROGRAM TO CALCULATE PROTON RADIATION DOSE THROUGH SHIELDING IN SPACECRAFT
NASA-CR-58298 N64-29369 21-20

COMPUTER PROGRAM FOR EVALUATING SPACE RADIATION HAZARDS - DOSES FROM PROTONS AND THEIR SECONDARY RADIATIONS
NASA-CR-58299 N64-29370 21-20

REAL TIME COMPUTATIONAL SCHEME FOR IDENTIFICATION OF LINEAR DYNAMIC SYSTEM PARAMETERS
TR-446 N64-29435 21-20

DIGITAL COMPUTER PROGRAM FOR PREDICTING LUNAR LANDING PHENOMENA N64-29629 21-10

AUTOMATIC CHROMOSOME ANALYSIS - AUTOMATIC MICROSCOPE, DIGITAL SCANNER, AND COMPUTER PROGRAM
NASA-CR-58533 N64-29698 21-15

COMPUTER PROGRAM FOR PREDICTION OF VERTICAL DENSITY DISTRIBUTION IN IONOSPHERE AND EXOSPHERE
NASA-TM-X-53062 N64-29728 21-29

MADCAP - COMPUTER PROGRAM TO PERFORM ARITHMETIC CALCULATIONS REQUIRING LARGE NUMBERS OF SIGNIFICANT FIGURES
AFCRL-64-510 N64-29834 21-20

COMPUTER PROGRAM FOR CONSTRUCTION OF MODEL ATMOSPHERE
RM-4204-PR N64-29862 21-12

ENGINEERING SIMULATION AND COMPUTER PROGRAM OF POWERED SPACE FLIGHT
W-06871 N64-29903 21-10

IBM 704 FORTRAN COMPUTER PROGRAM TO DETERMINE COMBUSTION EFFICIENCY FOR HYDROGEN AND AIR SYSTEM
APL-TDR-64-69 N64-30009 21-26

COMPUTER PROGRAM FOR SATELLITE ORBIT CALCULATION AND POSITION PREDICTION
SP-1665 N64-30137 21-29

COMPUTER PROGRAM FOR COMPUTATION OF ORBITAL ELEMENTS
K-37/64 N64-30185 21-29

PROGRAMMING OF LARGE STOCHASTIC SIMULATION MODEL FOR MONTE CARLO ANALYSIS ON DIGITAL COMPUTER - STATISTICAL SAMPLING DESIGN
SP-1697/000/00 N64-30233 22-20

ATOMIC SELF-CONSISTENT FIELD CALCULATIONS BY EXPANSION METHOD - COMPUTER PROGRAM
N64-30311 22-23

THERMAL STRAIN ANALYSIS OF MANNED SPACECRAFT HEAT SHIELDS - BOUNDARY CONDITIONS, ENGINEERING MODELS, AXISYMMETRY, AND COMPUTER PROGRAM
NASA-CR-54719 N64-30355 22-13

COMPUTER PROGRAM FOR DETERMINING MAGNITUDES OF SEISMIC EVENTS N64-30390 22-12

SOLAR REFLECTOR ANALYSIS - OPERATIVE COMPUTER PROGRAMS
EDR-3693 N64-30557 22-06

FORTRAN COMPUTER PROGRAM FOR CALCULATION OF SURFACE-TO-AIR MISSILE TRAJECTORIES
TN-R-104 N64-30584 22-20

HAYSTACK POINTING COMPUTER PROGRAM FOR OBTAINING CELESTIAL COORDINATES OF SUN
ESD-TDR-64-355 N64-30663 22-05

INSTRUCTION MANUAL FOR PROGRAMMER ORIENTED GENERALIZED OPERATOR /POGO/ DATA HANDLING SYSTEM FOR IBM 7070 COMPUTER
IS-893 N64-30757 22-32

OPTIMAL REENTRY GUIDANCE STUDY - DIGITAL COMPUTER PROGRAM
BR-3060-2 N64-30776 22-22

DIGITAL COMPUTER PROGRAM FOR SPACE FLIGHT CONTROL AND INSTRUMENTATION PROBLEMS
ASD-TDR-63-259 N64-30823 22-20

COMPUTATION OF TRANSIENT TEMPERATURE IN SPHERICAL VOLUME CONTAINING CONTIGUOUS SPHERICAL GRAPHITE SHELLS HEATED BY CONDUCTION - NECKLACE PROGRAM
LA-3115-MS N64-30868 22-20

COMPUTER PROGRAM FOR ANALYSIS OF OPTIMAL REENTRY GUIDANCE
BR-3060-1 N64-30891 22-29

COMPUTER PROGRAM TO DETERMINE DIMENSIONALITY OF SIGNAL COLLECTION
RADC-TDR-64-212 N64-30939 22-20

RESEARCH IN ATOMIC, PLASMA, AND SURFACE PHYSICS, ELECTRIC VACUUM GYROSCOPE, COMPUTER STATISTICS, IONIZATION GAUGES, AND SEMICONDUCTORS

AD-420532 N64-31244 22-23

COMPUTER PROGRAM USING MONTE CARLO METHOD FOR REFLECTION AND TRANSMISSION OF GAMMA RAYS AND NEUTRONS IN HOMOGENEOUS AND HETEROGENEOUS SLABS
TO-B-63-73 N64-31251 22-23

COMPUTER PROGRAM FOR STUDY OF NONEQUILIBRIUM FLOW EFFECTS IN HIGH EXPANSION RATE NOZZLES
NASA-CR-54042 N64-31452 23-02

DESIGN MANUALS AND FORTRAN COMPUTER PROGRAMS FOR BRUSHLESS ROTATING ELECTRIC GENERATORS IN SPACE AUXILIARY POWER SYSTEM
NASA-CR-54101, VOL. 1 N64-31713 23-06

DESIGN MANUALS AND FORTRAN COMPUTER PROGRAMS FOR BRUSHLESS ROTATING ELECTRIC GENERATORS IN SPACE AUXILIARY POWER SYSTEM
NASA-CR-54101, VOL. 2 N64-31714 23-06

DESIGN MANUALS AND FORTRAN COMPUTER PROGRAMS FOR BRUSHLESS ROTATING ELECTRIC GENERATORS IN SPACE AUXILIARY POWER SYSTEM
NASA-CR-54101, VOL. 3 N64-31715 23-06

DIGITAL COMPUTER PROGRAM FOR PREDICTION OF POINT AND MEAN GRAVITY ANOMALIES
AFCRL-64-575 N64-31828 23-12

COMPUTER PROGRAM SUBROUTINES FOR INVERSE PROBLEM OF LINEARIZED FULLY CAVITATING HYDROFOIL THEORY
RM-3563-PR N64-31971 23-20

COMPUTER PROGRAM BASED ON MAN-MACHINE INTERACTION IN FORMAL MATHEMATICS - MECHANICAL THEOREM PROVING
AFCRL-64-563 N64-32111 23-20

THERMODYNAMIC PROPERTIES OF PROPELLANT COMBUSTION PRODUCTS - PERFORMANCE PARAMETERS FOR COMPUTER PROGRAM
U-2289 N64-32125 23-26

COMPUTER PROGRAM FOR CALCULATING SLOW NEUTRON SCATTERING CROSS SECTION WITH APPLICATION TO WATER
IDO-16984 N64-32183 23-23

NUMERICAL APPROXIMATIONS AND FORTRAN IV PROGRAM FOR CALCULATING ELLIPTIC INTEGRALS OF THIRD KIND
E-110.3 N64-32190 23-20

AEROLOGICAL FORECASTING USING ELECTRONIC COMPUTERS
N64-32332 23-21

COMPUTER PROGRAM TO CALCULATE ACQUISITION COORDINATES OF EARTH SATELLITES FOR TRACKING AND FIXED BEAM SURVEILLANCE SENSORS
U-1854 N64-32389 23-20

NUCLEAR DETONATION EFFECT ON PROPAGATION OF ELECTROMAGNETIC WAVES COMPUTED BY FORTRAN PROGRAM
R64TMP-8-/3/ N64-32464 23-20

MONTE CARLO COMPUTER PROGRAM FOR ESTIMATING EPITHERMAL NEUTRON CAPTURE RATES IN RECTANGULAR AND 60-DEGREE PARALLELOGRAM GEOMETRY
WAPD-TM-437 N64-32468 23-20

NETWORK SYNTHESIS, PHASE LOCKED OSCILLATORS, AND COMPUTER PROGRAMS FOR INTELLIGENCE EFFORT
EDL-M636 N64-32550 23-09

SOLAR RADIO EMISSION FOR ANTENNA ALIGNMENT AND COMPUTER PROGRAM FOR SOLAR TRACKING ANGLES
EDL-M690 N64-32561 23-08

COMPUTER PROGRAM FOR ANALYSIS OF SYSTEM FOR NUCLEAR AUXILIARY POWER-50 /SNAP-50/ SPACE POWER UNIT REACTOR /SPUR/ BOILER
L-9390 N64-32680 23-13

IBM 704 COMPUTER PROGRAM LASS - LINEAR ANALYSIS OF SYSTEM STABILITY
DP-894 N64-32744 24-20

RUNWAY UNEVENNESS EFFECT ON DYNAMIC RESPONSE OF SUPERSONIC TRANSPORT - DIGITAL COMPUTER PROGRAM
NASA-CR-119 N64-32830 24-04

COMPUTER PROGRAM TO FIND PROJECTION OF SATELLITE ON SURFACE OF ROTATING EARTH AND VEHICLE-SUN ORIENTATION
R64SD42 N64-32851 24-29

DIFFERENTIAL ORBIT IMPROVEMENT AND ORBIT ANALYSIS COMPUTER PROGRAM
NASA-CR-59138 N64-33049 24-29

COMPUTER PROGRAM DOCUMENTATION - MATHEMATICAL AND SUBROUTINE DESCRIPTION OF ESPOD PROGRAM
STL-8497-6065-RU000 N64-33146 24-20

COMPUTER PROGRAM FOR ANALYSIS OF GAMMA RAY SPECTRA FOR IDENTIFICATION OF RADIOISOTOPES IN NEUTRON ACTIVATION ANALYSIS OF METEORITES
NASA-CR-58970 N64-33205 24-23

AUTOMATIC SYNTHESIS COMPUTER PROGRAM IN FORTRAN FOR OPTIMAL FILTERS AND OPTIMUM CONTROL SYSTEMS
NASA-CR-58829 N64-33222 24-20

COMPUTER PROGRAM FOR CALCULATION OF HEAT CONTENT, COMPRESSIBILITY FACTOR, ENTROPY, AND FUGACITY COEFFICIENT OF PURE SUBSTANCE OR MIXTURE FROM EQUATION OF STATE
UCRL-11645 N64-33238 24-20

COMPUTER PROGRAM FOR DETERMINATION OF HEATING OF PERIPHERAL COMPONENTS OF TORY II-C REACTOR BY GAMMA RADIATION - MONTE CARLO METHOD
UCRL-12005 N64-33239 24-23

FORTRAN PROGRAM FOR IBM 7074 COMPUTER PROCESSING OF CRYTALLOGRAPHIC DATA
IS-876 N64-33249 24-20

COMPUTER PROGRAMMED LOAD CYCLING FOR PLASTIC DEFORMATION MATERIAL TESTING AND VERIFICATION OF ELASTICITY THEORY
ONERA-TP-161 N64-33258 24-25

FORTRAN COMPUTER PROGRAM FOR DATA REDUCTION OF PHOTOGRAPHS OF TWO-PHASE FLOW PHENOMENA
WAPD-TM-462 N64-33474 24-20

FREQUENCY ANALYSIS OF MACHINE INSTRUCTIONS IN COMPUTER PROGRAM SYSTEMS
TM-1603 N64-33503 24-20

COMPUTER PROGRAM FOR ERROR STATISTICAL CONTROL
RADC-TDR-64-149, VOL. VIII N64-33544 24-08

PARAMETRIC STUDY AND COMPUTER PROGRAM FOR HEAT FLUXES ON SATELLITE ORBITING NEAR VENUS AND MARS
NASA-CR-59281 N64-33705 24-20

COMPUTER PROGRAM FOR SATELLITE ORBIT EPHEMERIDES
U-2731 N64-33720 24-20

COMPUTER PROGRAM FOR ANALYZING COMPLEX GAMMA RAY SPECTRA OBTAINED WITH SCINTILLATION SPECTROMETERS
IDO-17015 N64-33964 24-23

COMPUTER PROGRAMMING
SA REDUNDANCY ENCODING
COMPARISON OF COMPLETE VERSUS SELECTIVE PROGRAMMED INSTRUCTION IN NONDESTRUCTIVE TESTING LABORATORY - PERSONNEL TRAINING
Y-1442 N64-10213 01-20

ANALYSIS WITHIN BOUNDED CONTEXT GRAMMATICAL MODELS FOR COMPUTER PROGRAMMING LANGUAGES
AFCRL-63-399 N64-10550 01-20

MULTIPLICATIVE CONGRUENTIAL AND MIXED CONGRUENTIAL METHODS FOR RANDOM NUMBERS IN COMPUTER PROGRAMMING
IDO-16921 N64-11093 02-20

FUTURE HUMAN PERFORMANCE IN COMPUTER PROGRAMMING
AMRL-TDR-63-78 N64-11177 02-14

AUTOMATION AND COMPUTER PROGRAMMING
JPRS-17761 N64-11610 03-01

ELECTRONIC COMPUTER SOLUTION TO DISTURBANCE AND RELATED PROBLEMS OF DYNAMIC PROGRAMMING THEORY
N64-11612 03-20

ARRANGEMENT OF INTERMEDIATE INFORMATION WHEN COMPUTING ON NONERASING TURING MACHINES
JPRS-22608 N64-13298 04-20

FORTRAN PROGRAMMING INSTRUCTIONS FOR CRYSTAL STRUCTURE ANALYSIS
NRL-5885 N64-13757 05-20

SCIENTIFIC COMPUTATION OF LINEAR EQUATIONS, MATRIX OPERATIONS, & CURVE FITTING BY ELECTRONIC COMPUTER PROGRAMMING
NBS-TN-203 N64-13939 05-20

COMMAND STRUCTURE AND NOTATION SYSTEMS FOR FIVE SOVIET DIGITAL COMPUTERS
RM-3804-PR N64-16046 07-20

LOGICAL DESIGN OF ADVANCED ADAM COMPUTER AND PROGRAMMING
AFCRL-63-510, APPEND. N64-16432 08-20

HUMAN PERFORMANCE AND LINEAR COMPUTER PROGRAMMING FOR PROBLEM SOLVING
AD-430035 N64-16653 08-01

PROGRAMMING RESEARCH & COMPUTING SERVICES AND STATISTICAL RESEARCH, APPLICATION, & PROGRAMMING
ORNL-3567 N64-16666 08-20

LINGUISTICS, MACHINE LANGUAGE, AND LANGUAGE PROCESSING
ESD-TDR-63-620 N64-16825 08-20

ESTIMATION OF VECTOR VALUES IN FINITE STATIONARY ERGODIC MARKOV CHAINS AND CONVERSES TO CODING THEOREM FOR CONTINUOUS MEMORYLESS CHANNELS
NASA-CR-53085 N64-17164 09-20

COMPUTER PROGRAMMING - STRONG CONVERSE TO CODING THEOREM FOR CONTINUOUS MEMORYLESS CHANNELS
N64-17166 09-20

COMPUTER PROGRAMMING OF OPTIMUM VEHICLE TRAJECTORY FOR INTERCEPTION OF ORBITING TARGET
SSD-TDR-63-402, VOL. 2 N64-17336 09-20

ARTIFICIAL INTELLIGENCE - SYSTEM FOR INSTRUCTING COMPUTER AND PROGRAMMING LANGUAGE FOR MANIPULATING SYMBOLIC EXPRESSIONS N64-17881 10-20

PERIGREE COMPUTER CODE FOR SOLVING ONE- OR TWO-GROUP NEUTRON DIFFUSION EQUATIONS BY FINITE DIFFERENCE METHODS - REACTOR SIMULATION
AECL-1901 N64-18492 10-20

OPERATIONS RESEARCH - COMPUTER PROGRAMMING AND ALGORITHMS
ORC-63-23/RN-4/ N64-18926 11-20

GEOMETRIC INTERPRETATION OF ALGORITHM FOR COMPUTER PROGRAMMING - OPERATIONS RESEARCH
N64-18927 11-20

DIGITAL COMPUTER DESIGN TECHNIQUES, HEURISTIC PROGRAMMING AND CODING STATES OF SWITCHING CIRCUITS
RTD-TDR-63-4173, VOL. 3 N64-19657 12-20

DIGITAL COMPUTER FOR TRAINING - DESIGN, LOGIC COMPONENTS, AND PROGRAMMING
JPRS-24498 N64-19903 12-20

COMPUTER DESIGN AND PROGRAMMING FOR DATA PROCESSING LINK BETWEEN TRACKING RADAR PROGRAMMER AND CONTROL CENTER
RADC-TDR-63-494 N64-21232 14-08

COMPUTER PROGRAMMING OF REAL-TIME SIMULATION PROBLEMS
NAVTRADEVCEN-1089-1 N64-21584 15-20

MATHEMATICAL PROGRAMMING - BIBLIOGRAPHY
ORC-64-6/RN/ N64-23274 16-20

COMPUTER PROGRAMMING IN MATHEMATICS
FTD-TT-63-449/16264 N64-23396 16-20

ALGORITHM FOR LARGE BLOCK PROGRAMMING SYSTEMS
N64-23397 16-20

COMPUTER PROGRAMMING FOR WEATHER DATA PROCESSING
AD-437483 N64-23905 16-21

IMPLEMENTATION OF EXISTING LANGUAGES FOR NEW COMPUTERS AND NEW LANGUAGES FOR EXISTING COMPUTERS
RADC-TDR-63-563 N64-24394 17-20

MICROPROGRAMMING IN ELECTRONIC COMPUTERS
N64-24686 17-09

PROGRAMMING - OPTIMIZATION OF MACHINE SEARCH
N64-24697 17-20

SELF-DIAGNOSIS OF ELECTRONIC DIGITAL COMPUTERS
R-207 N64-25406 17-20

SEQUENTIAL PROGRAMMING CONTROL LANGUAGE FOR PARALLEL NETWORK COMPUTER SYSTEM
RADC-TDR-64-175 N64-26169 18-20

NUMERICAL SOLUTION AND PROGRAMMING FOR PROBLEMS INVOLVING INTERSECTION OF SHOCKS AND SHOCK-BOUNDARY LAYER INTERACTIONS FOR REAL AND IDEAL GAS
NASA-CR-56414 N64-27905 20-11

AUTOMATION OF COMPUTER PROGRAMMING
JPRS-26430 N64-29425 21-20

SPACE VEHICLE LAUNCH OPERATIONS - RESEARCH, COMMUNICATIONS, AND COMPUTER PROGRAMMING
NASA-TM-X-51925 N64-29523 21-10

NUCLEAR PHYSICS, SPACE RADIATION, SOLID STATE PHYSICS, AND COMPUTER PROGRAMMING
AECL-2044 N64-29775 21-23

COMPUTER PROGRAMMING TECHNIQUES - STATISTICAL ANALYSIS, INFORMATION RETRIEVAL, GRAPHIC INPUT AND DISPLAY, AND AUTOMATED DEBUGGING
RADC-TDR-64-233 N64-29932 21-10

CENTRALLY CONTROLLED ITERATIVE ARRAY COMPUTER - PARALLEL PROCESSING COMPUTER SYSTEM - OPERATIONS AND PROGRAMMING
RADC-TDR-64-251 N64-29970 21-10

COMPUTER PROGRAMMING - CONTROL THEORY - DIGITAL STRUCTURE AND INFORMATION STORAGE AND RETRIEVAL
JPRS-26013 N64-30413 22-20

COMPUTER PROGRAMMING BASED ON SET OF CONTROL WORDS AND ON DIGITAL COMPUTER STRUCTURE
N64-30415 22-20

NUMERICAL INVERSION OF MELLIN TRANSFORM - COMPUTER PROGRAMMING FOR SOLVING COMPLEX EQUATIONS ARISING IN BIOLOGY AND MEDICINE
RM-4179-NIH N64-30796 22-20

MATHEMATICAL MODELS SYSTEM DEVELOPMENT FOR USE WITH LARGE-SCALE AUTOMATIC COMPUTERS
USNRDL-TR-749 N64-30958 22-20

COMPUTER PROGRAMMING FOR METEOROLOGY - GEOSTROPHIC WIND MODELING AND PREDICTION OF WIND & TEMPERATURE PROFILES
JPRS-26693 N64-31022 22-21

CAMEO - COMPUTER-INDEPENDENT ABSTRACT MACHINE-LANGUAGE ENCODER AND OPERATING SYSTEM
NASA-TM-X-55074 N64-33621 24-20

COMPUTER SIMULATION
DETERMINATION OF SOUND PROPAGATION RATE IN LIQUIDS FLUID DYNAMICS, FLIGHT MECHANICS, THERMODYNAMICS AND STRUCTURAL DYNAMICS
S.M.F. FUND PAPER-FF-34 N64-10080 01-01

ALGORITHMIC SIMULATION FOR ANALYSIS OF INDIVIDUAL QUEUEING SYSTEMS AND PRODUCTION PROCESSES BY COMPUTER
JPRS-19621 N64-10511 01-20

COMPUTER PROGRAM MODELING OF NATURAL SELECTION - SIMULATION OF EVOLUTION PROCESSES
N64-11033 02-20

JET PLUMING EFFECT ON TWO FREE-FLIGHT ROCKET-PROPELLED CONE-CYLINDER-FLARE VEHICLES DETERMINED

BY COMPUTER SIMULATION
NASA-TN-D-2018 N64-11552 03-27

ELECTRONIC COMPUTER ANALYSIS OF BIOELECTRIC CURRENT IN BRAIN - CYBERNETICS N64-12517 04-16

COMPUTER SIMULATION OF AERIAL PHOTOGRAPHS FOR ADAPTIVE MEMORY RECOGNITION SYSTEM
PHILCO-VO44-F N64-12646 04-09

DIGITAL COMPUTER SIMULATION OF PERFORMANCE OF SOLID PROPELLANT ROCKET MOTORS
FA-R-1694 N64-12836 04-20

COMPUTER CALCULATION OF HIGH ENERGY SECONDARY ELECTRON EMISSIONS WITH RESPECT TO INTENSITY, ENERGY LOSS, AND ENERGY & EMISSION SPECTRA
AFSWC-TDR-63-50 N64-13774 05-23

EFFECTS OF VARIOUS WEATHER CONDITIONS ON SONIC BOOM PROPAGATION AND STRENGTH, AS DETERMINED BY COMPUTER SIMULATION & EXPERIMENTAL FLIGHTS
PR-3 N64-14340 06-21

COMPUTER SIMULATION OF COORDINATED ECONOMIC OPERATION OF COMBINED HYDRO- & THERMOELECTRIC SITES AND ROLE OF NUCLEAR POWERPLANTS
EUR-468.I N64-14747 06-01

UNIVERSAL DIGITAL OPERATIONAL FLIGHT TRAINER - DIGITAL COMPUTER FOR FLIGHT SIMULATION
AMRL-TDR-63-133 N64-16827 08-10

DIGITAL SIMULATION PROGRAM FOR STUDYING BOOST, MIDCOURSE, & HOMING PHASE OF TARGET INTERCEPTION BY INTERCEPTOR USING PROPORTIONAL NAVIGATION
SSD-TDR-64-7 N64-17615 09-01

MATHEMATICAL /COMPUTER/ SIMULATION - THEORY AND METHODS
RSIC-125 N64-17969 10-20

COMPUTER SIMULATION OF ATMOSPHERIC DRAG FOR TESTING TRAJECTORY OF ARTIFICIAL SATELLITE OR SPACE PROBE N64-18232 10-29

COMPUTER ANALYSIS OF BIOLOGICAL HAZARDS OF SPACE RADIATION - DEVELOPMENT OF FORTRAN PROGRAMS
AMRL-TDR-64-11 N64-18649 11-23

ANALOG MODEL FOR CONSTRUCTABILITY OF INDUCTIVE LOGIC - COMPUTER SIMULATION N64-18839 11-16

ANALOG COMPUTER SIMULATION OF EFFECT ON AUTOMATIC LANDING SYSTEM PERFORMANCE OF OVERFLIGHT INTERFERENCE WITH LOCALIZER N64-19166 11-10

COMPUTER PROGRAM FOR SIMULATION OF ONBOARD DATA PROCESSOR FOR TRACK-WHILE-SCAN NAVIGATION CONCEPT
NASA-CR-53513 N64-20006 13-20

COMPUTER PROGRAMMING OF REAL-TIME SIMULATION PROBLEMS
NAVTRADEVCEN-1089-1 N64-21584 15-20

DIGITAL TECHNIQUES FOR RADAR LAND MASS SIMULATION
AD-600347 N64-21804 15-10

COMPUTER SIMULATION AND ANALYSIS OF ELECTRON-BEAM-GENERATED PLASMA SHEET
SEL-63-138 N64-23605 16-24

COMPUTER SIMULATION OF HUMAN PHYSIOLOGY FOR DIAGNOSIS OF HEART MALFUNCTION N64-23698 16-16

MOTION EQUATIONS FOR COMPUTER SIMULATION OF HELICOPTER IN ALL FLIGHT CONDITIONS
NAVTRADEVCEN-1205-1 N64-25214 17-10

COMPUTER DRIVEN SIMULATION ENVIRONMENT - DESCRIPTION, PROGRAMMING, CHECKOUT, AND OPERATION N64-25552 17-10

COMPUTER SIMULATION OF CODING FOR COLOR PICTURES
NASA-CR-58170 N64-27907 20-15

TWO DIMENSIONAL COMPUTER EXPERIMENTS ON ION BEAM NEUTRALIZATION
AIAA PAPER-64-698 N64-28367 20-27

MATHEMATICAL MODEL FOR COMPUTER SIMULATION OF REENTRY VEHICLE TRAJECTORIES TO DETERMINE REQUIREMENTS OF GROUND ELECTRONIC SUPPORT SYSTEMS
ESD-TDR-64-135 N64-28580 20-30

DYNAMIC MODEL TESTING VERSUS COMPUTER SIMULATION FOR ANALYSIS OF PROBLEMS FOR AEROSPACE VEHICLES N64-29261 21-33

COMPUTER SIMULATION STUDY OF TURN PROCEDURE FOR REDUCING AIRSPACE REQUIREMENTS FOR SUPERSONIC TRANSPORTS
NASA-RP-323 N64-31006 22-22

IBM 7090 DIGITAL COMPUTER SIMULATION OF RADIATION PATTERNS OF ULTRAHIGH FREQUENCY ANTENNA ARRAYS ABOVE FINITELY-CONDUCTING PLANE SURFACES
GE/EE/63-16 N64-32100 23-01

COMPUTER SIMULATION OF ELECTRONIC DATA PROCESSOR
MPR-12 N64-32399 23-10

ANNOTATED BIBLIOGRAPHY ON RADAR SIMULATION BY ANALOG OR DIGITAL COMPUTER TECHNIQUES
SB-64-12 N64-32966 24-01

DIGITAL SIMULATION OF HOT-POTATO ROUTING IN BROADBAND DISTRIBUTED COMMUNICATIONS NETWORK
RM-3103-PR N64-33227 24-01

DESIGN, COMPUTER SIMULATION, AND FEASIBILITY OF TRACK-WHILE-SCAN NAVIGATION CONCEPT
NASA-CR-59297 N64-33335 24-22

CONCENTRATION
MEASUREMENT OF ION CONCENTRATION AND TOTAL ION DENSITY IN EXOSPHERE USING MASS SPECTROMETER AND ELECTROSTATIC PROBE
NASA-RP-63 N64-10357 01-12

ION CONCENTRATION COUNTER FOR IONS PRODUCED BY MIKULIN TYPE HYDROIONIZERS
FTD-TT-63-666/1&2 N64-11543 03-23

MEASUREMENT OF ION CONCENTRATIONS AND MOBILITIES IN ATMOSPHERE BY ELECTRICAL SHUTTER METHOD N64-26971 19-15

INSTRUMENT FOR MEASURING ION COMPOSITION OF UPPER ATMOSPHERE N64-28856 20-15

CALCULATION OF PARTITION FUNCTION, IONIZATION POTENTIAL LOWERING, ELECTRON, ION, & NEUTRAL PARTICLE SPECIES CONCENTRATIONS, AND SPECTRAL LINE INTENSITIES OF COPPER PLASMA
REPT.-4613-66-T N64-32675 23-24

CONCENTRATOR
CF COLLECTOR
CF SOLAR COLLECTOR
FABRICATION OF SOLAR CONCENTRATORS BY ELECTROFORMING
NASA-CR-55322 N64-13903 05-04

HEAT ACTIVATED RIGIDIZERS FOR INFLATABLE SOLAR ENERGY CONCENTRATOR
NASA-CR-55798 N64-16271 08-04

PARABOLIC SOLAR ENERGY CONCENTRATOR MODEL
RTD-TDR-63-4051 N64-25868 18-14

HELEOTROPIC ORIENTATION DEVICE FOR CONCENTRATOR IN SOLAR POWER GENERATION SYSTEMS
NASA CR-56410 N64-26581 18-06

FLIGHT EXPERIMENT TO DETERMINE EFFECTS OF SPACE ENVIRONMENT ON PERFORMANCE OF SOLAR CONCENTRATOR REFLECTIVE SURFACE
NASA-CR-55893 N64-27870 20-04

SOLAR ENERGY CONCENTRATOR
AIAA PAPER-64-730 N64-28648 20-04

FABRICATION OF LIGHTWEIGHT SOLAR REFLECTOR-CONCENTRATORS
NASA-CR-58579 N64-29695 21-04

CONCENTRATOR, HEAT RECEIVER, ORIENTATION SYSTEM, AND TRACKING RIG FOR SOLAR MECHANICAL ENGINE

CDRD-63-5038 N64-32043 23-27

CONCENTRATOR, HEAT RECEIVER, AND ORIENTATION SYSTEM FOR SOLAR DYNAMIC POWER SYSTEM
CDRD-64-5044 N64-32576 23-06

CONCRETE
CORROSION OF REINFORCING STEEL IN POROUS CONCRETE
JPRS-17616 N64-10704 02-18

DESTRUCTIVE EFFECT OF ELECTRICAL PULSE DISCHARGE IN WATER ON CONCRETE & CHALK
FTD-TT-63-385/1&2 N64-12314 03-23

ULTRASONIC TESTING & INSPECTION OF CONCRETE FOR QUALITY AND DURABILITY
FTD-MT-63-129 N64-18679 11-23

MEASUREMENT OF RADIATION INTENSITIES IN VERTICAL CONCRETE LINED HOLES & ADJOINING TUNNEL
ORNL-3513 N64-21510 15-23

NONLINEAR DYNAMIC RESPONSE OF REINFORCED CONCRETE CIRCULAR ARCHES
R64-6 N64-25584 17-33

MODELING OF REINFORCED CONCRETE STRUCTURES UNDER DYNAMIC LOAD
R63-54 N64-25749 17-33

MONTE CARLO COMPUTATION OF 1-MEV GAMMA RAY SCATTERING BY CONCRETE SLABS
TD-B-64-31 N64-25815 17-23

FAILURE LOAD TESTING OF PRESTRESSED CONCRETE SLABS SUPPORTED ON LOW-STRENGTH SUBSTRATE
TR-4-28 N64-28627 20-19

TRANSMISSION OF GAMMA RADIATION THROUGH THIN FINITE SLABS - MEASUREMENTS ON IRON AND CONCRETE SHIELDING USING COBALT 60 AND CESIUM 137 SOURCES
AD-603413 N64-30683 22-23

CONDENSATION
SA NUCLEATION
MECHANISMS FOR CONDENSATION OF INTERPLANETARY DUST AROUND EARTH
MH-TRANS-462 N64-11578 03-05

HEIGHT OF CONDENSATION LEVEL - LOWER BOUNDARY OF CLOUDS
N64-11846 03-21

DIGITAL COMPUTER SOLUTION OF CONDENSATION IN HIGHLY EXPANDED FLOWS
ARL-63-206 N64-14769 06-20

ATMOSPHERIC CIRCULATION, COMPOSITION, AND CONDENSATION - METEOROLOGY AND HYDROLOGY
JPRS-23246 N64-16145 08-21

MECHANISM OF CONDENSATION PROCESSES IN ATMOSPHERE
N64-16147 08-21

CONDENSATION OF NITROGEN IN HOTSHOT TUNNELS
AEDC-TDR-64-35 N64-17521 09-10

COPOLYCONDENSATION OF BORON AND PHOSPHORUS DIFUNCTIONAL ACIDS
N64-18486 10-07

BIBLIOGRAPHY ON HIGH TEMPERATURE CHEMISTRY AND PHYSICS OF MATERIALS IN CONDENSED STATE
N64-19810 12-07

ELECTROSTATIC FIELDS APPLIED TO INCREASE HEAT TRANSFER COEFFICIENT IN CONDENSATION OF VAPOR
RTD-TDR-63-4008 N64-21178 14-13

EXPLOSIVE REACTIONS IN CONDENSED SYSTEMS - KINETICS OF THE THERMAL DECOMPOSITION OF TRINITROTOLUENE
TIL/T-5435 N64-21400 14-07

CONDENSING HELIUM
FTD-TT-62-1669/1&2 N64-22628 15-13

KINETICS AND MECHANISMS OF CONDENSATION AND HOMOGENEOUS NUCLEATION FROM VAPOR PHASE
REPT.-5515-F N64-23140 16-23

LIQUID METAL CONDENSATION
ASD-TDR-62-1048, PT. III N64-24050 16-13

PROTOPLANETARY DUST CLOUD CONDENSATION AND SOLAR SYSTEM FORMATION
N64-24773 17-29

BOILING & CONDENSING HEAT TRANSFER DATA FOR ALKALI METALS
NASA-CR-54037, VOL. 2 N64-25904 18-13

HEAT EMISSION DURING CONDENSATION OF MOVING STEAM IN SINGLE HORIZONTAL PIPE
FTD-TT-64-301/1&2 N64-26116 18-13

TWO-PHASE HEAT TRANSFER IN SODIUM AND POTASSIUM BOILING AND CONDENSING
NASA-CR-54037, VOL. 1 N64-26580 18-13

LABORATORIES IN GREAT BRITAIN CONDUCTING RESEARCH ON CONDENSED PHASES AT HIGH TEMPERATURE
N64-28112 20-18

BIBLIOGRAPHY OF GAS AND CONDENSED PHASE REACTIONS OF HIGH TEMPERATURE CHEMISTRY AND PHYSICS
N64-28694 20-07

STABILITY OF CONDENSING STEAM FLOW INSIDE TUBES FOR RANKINE CYCLE SPACE POWERPLANT DESIGN
NASA-CR-54178 N64-31716 23-06

BIBLIOGRAPHY ON NOCTILUCENT AND NACREOUS CLOUDS, CIRRIFORM CLOUDS, AND CONDENSATION TRAILS
ERDA-181 N64-32034 23-21

LORENTZ AND GAUSS BAND CONTOURS FOR INTERMOLECULAR SPECTROSCOPY IN CONDENSED PHASES
ASD-TDR-63-314, PT. I ED. II N64-32133 23-07

HEAT TRANSFER STUDIES OF VAPOR CONDENSING AT HIGH VELOCITIES IN SMALL, STRAIGHT TUBES
NASA-CR-124 N64-32433 23-13

HEAT TRANSFER AND FLUID FLOW DATA FOR POTASSIUM UNDER BOILING AND CONDENSING CONDITIONS IN SPACE TURBOELECTRIC SYSTEMS
NASA-CR-54138 N64-32633 23-13

CONDENSING PRESSURE DROP PREDICTION BY IMPROVED LOCKHART-MARTINELLI METHOD
NASA-CR-116 N64-32828 24-11

CONDENSATION OF ALPHA ETHYLENIC KETONES IN BASIC HOMOGENEOUS OR HETEROGENEOUS MEDIUM
N64-32899 24-07

NUCLEATION & CONDENSATION OF WATER
AD-443693 N64-33825 24-11

EFFECTS OF PARTIAL CONDENSATION AROUND IONS IN ELECTROHYDRODYNAMIC ENERGY CONVERSION
GSP-64 N64-33832 24-11

WATER VAPOR CONDENSATION TO SOLID STATE IN ELECTRIC FIELD IN PRESENCE OF IONS
FTD-TT-64-548/1&2 N64-33941 24-23

CONDENSER
SA CAPACITOR
SPACE POWER SYSTEM JET CONDENSERS & RADIATORS - MERCURY TEST FLUID & HIGH SPEED PHOTOGRAPHIC STUDIES
NASA-CR-52862 N64-11232 02-06

CONDENSER TILTING DEVICE FOR DIFFRACTED BEAM ELECTRON MICROSCOPE USED FOR EXAMINING THIN FOILS
AFCRL-64-43 N64-18061 10-15

WIDE ANGLE CONDENSER - CORRECTION PLATE FOR REDUCTION OF SPHERICAL ABERRATION IN OPTICAL INSTRUMENTS
FTD-TT-63-1098/1&2 N64-19757 12-23

DIRECT CONTACT HEAT EXCHANGERS FOR EVAPORATORS AND CONDENSERS IN REFRIGERATING EQUIPMENT
RSIC-162 N64-20323 13-13

CONDENSER PROBE FOR MEASURING PENETRATION DEPTH OF ABLATIVE PLASMA INCIDENT ON SOLID TARGET
GAMD-4255 N64-21160 14-15

OPERATING CHARACTERISTICS OF MERCURY CONDENSERS FOR SPACE APPLICATION - SYSTEM FOR NUCLEAR AUXILIARY POWER
NAA-SR-9801 N64-28054 20-06

CIRCUIT DIAGRAMS OF ASPIRATION CONDENSERS IN ION COUNTER N64-31771 23-09

SPACE POWER PLANT STARTUP AND TRANSIENT OPERATION SIMULATION WITH DIRECT CONDENSING RADIATOR SYSTEM
NASA-CR-54179 N64-32689 23-06

FLUID DYNAMIC DESIGN CRITERIA FOR MERCURY CONDENSOR-SUBCOOLER COMPONENT FOR SUNFLOWER POWER CONVERSION SYSTEM
NASA-CR-54013 N64-33999 24-06

CONDITIONED RESPONSE
SA LEARNING
SA REFLEX
CF BEHAVIOR
EFFECT OF CONSTANT MAGNETIC FIELD ON CONDITIONED REFLEXES IN SEA FISH
NASA-TT-F-189 N64-11564 03-16

CONDITIONED RESPONCE OF WHITE RATS OBSERVED AFTER SPACE FLIGHT N64-11676 03-16

PHYSIOLOGICAL RESPONSE OF NERVOUS SYSTEM COMPONENTS
IPST-985 N64-11946 03-16

CONDITIONED REFLEX TO MAGNETISM IN FISH
NASA-TT-F-190 N64-12962 04-16

RESPONSE OF CHIMPANZEE TO SEVERE ENVIRONMENTAL STRESS
ARL-TDR-63-26 N64-14044 05-16

EFFECTS OF MASSIVE DOSES OF IONIZING RADIATION UPON CONDITIONED AVOIDANCE BEHAVIOR OF PRIMATES
DASA-NWER-03.008 N64-15993 07-16

HIGH NERVOUS ACTIVITY AND CONDITIONED REFLEXES
JPRS-23833 N64-17351 09-16

SIMULTANEOUS STUDY OF EYE BLINKING REFLEXES AND FUNCTIONAL STATE OF CARDIOVASCULAR SYSTEM IN HUMANS
JPRS-24967 N64-21783 15-16

SENSORY STIMULATION & CONDITIONED RESPONSE N64-22418 15-16

CONDITIONED REFLEX BASIS OF VISUAL SPATIAL PERCEPTION N64-25139 17-16

ROLE OF MOTOR AND VISUAL ANALYZERS IN FORMATION OF CONDITIONED REFLEX RESPONSES TO SPATIAL POSITIONS OF OBJECTS N64-25144 17-16

PATTERN ANALYSIS OF CONDITIONED RESPONSE AND THOUGHT PROCESSES OF HUMAN BRAIN
FTD-TT-64-184/1&4 N64-25951 18-16

BIOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL STUDIES OF CENTRAL NERVOUS SYSTEM - CONDITIONED REFLEX
JPRS-26060 N64-28446 20-16

INTERRELATIONSHIPS AMONG CONDITIONED RESPONSES IN ANIMALS AND HUMANS
FTD-TT-64-282/1&2 N64-30156 21-16

ANIMAL STUDY OF CONDITIONED RESPONSE - LEVER-PRESSING BEHAVIOR OF RATS IN FIXED RATIO AND IN EXTINCTION
NADC-ML-6407 N64-31665 23-14

CONDITIONED RESPIRATORY REFLEX AND RESPONSE TO CARBON DIOXIDE UNDER INFLUENCE OF CHLORPROMAZINE
FTD-TT-64-69/1&2&4 N64-33102 24-16

PSYCHOLOGICAL TESTING OF ANIMALS - FIXED EFFORT RESPONSE REINFORCEMENT AND EXTINCTION RESPONSE
AD-607325 N64-33507 24-16

CONDUCTION
SA CONDUCTING MEDIA

ELECTRON THEORY OF SIMPLE METALS AND ALLOYS - MOTION OF ELECTRONS AND CONDUCTION ELECTRON DENSITY N64-12969 04-23

CONDUCTION MECHANISMS IN VERY THIN INSULATING FILMS - TUNNEL ELECTRON PRODUCTION
AD-424628 N64-13031 04-09

CONDUCTION MECHANISM IN LITHIUM-SUBSTITUTED OXIDES OF MANGANESE, COBALT, NICKEL, AND COPPER N64-18117 10-25

CALCULATION OF DISTRIBUTION OF CURRENT DURING FLOW OF CONDUCTING LIQUIDS THROUGH CHANNELS IN MAGNETIC FIELDS
FTD-MT-63-8 N64-18663 11-23

VISCOELECTRIC MAGNETOHYDRODYNAMIC ANALOGY N64-19832 12-24

CONDUCTION BLOCKAGE OF ISOLATED SCIATIC NERVE OF FROG BY HIGH ENERGY IRRADIATION N64-29725 21-16

MECHANISM OF CONDUCTION IN VERY THIN FILMS OF INSULATING MATERIAL
IER-3 N64-31229 22-25

PATHS FOR PRIMARY SPECIFIC INFORMATION CONDUCTION IN VISUAL ANALYZER SYSTEM OF DOG N64-31463 23-16

UNSTEADY FLOW PROBLEMS IN VISCOUS, ELECTRICALLY CONDUCTING FLUID IN MAGNETIC FIELD
NASA-TT-F-9105 N64-31565 23-24

CONDUCTIVE HEAT TRANSFER
CF THERMOCONDUCTIVITY
HEAT CONDUCTION EFFECTS IN LEADING EDGE OF WIND TUNNEL MODELS
RTD-TDR-63-4035 N64-12577 04-03

ONE-DIMENSIONAL, TIME DEPENDENT, OR STEADY STATE HEAT CONDUCTION CODE FOR IBM 650
IDO-16867 N64-12940 04-20

FREE PISTON COMPRESSION FOR DRIVING HIGH ENTHALPY SHOCK TUBES - MINIMIZATION OF HEAT LOSS
NASA-CR-53059 N64-15790 07-11

SOLUTION OF HEAT CONDUCTION PROBLEMS BY GRID METHOD
NASA-TT-F-151 N64-17995 10-13

CONDUCTIVE HEAT TRANSFER FROM FINE WIRE
P-2843 N64-20117 13-13

REENTRY HEAT CONDUCTION OF SPACE VEHICLE SKIN WITH VARIABLE THERMOCONDUCTIVITY
NASA-RP-167 N64-20200 13-13

CONDUCTIVE HEAT TRANSFER IN SINGLE AND DOUBLE LAYER WALLS WITH BOUNDARY CONDITIONS APPROPRIATE TO AERODYNAMIC HEATING
HSA-16 N64-21202 14-13

CONDUCTIVE HEAT TRANSFER AT INTERFACE OF TWO METALS IN VACUUM
AIAA PAPER-64-253 N64-23610 16-13

DYNAMIC PROPERTIES OF VARIOUS BODIES DURING HEAT EXCHANGE BY CONVECTION, CONDUCTION, AND RADIATION N64-24552 17-15

MOTIONS OF IDEAL, PERFECT, AND HEAT CONDUCTIVE GASES N64-28489 20-11

TRANSFORMATION OF EULERIAN FORM OF NAVIER STOKES EQUATION INTO LINEAR LAGRANGIAN MODEL OF TURBULENT HEAT CONDUCTION AND CONVECTION
GEOPHYS. SCI. LAB. REPT.-63-8 N64-31242 22-13

GREEN FUNCTION FOR BOUNDARY VALUE PROBLEMS IN HEAT CONDUCTION EQUATION
NASA-TT-F-9087 N64-31333 22-23

APPLICATION OF VARIATIONAL AND LAGRANGIAN THERMODYNAMICS EXTENDED TO PROBLEMS OF HEAT CONDUCTION WITH MELTING BOUNDARIES

CAL-SA-987-S-12 N64-32293 23-13

IBM 1620 COMPUTER PROGRAM FOR SOLUTION OF HEAT CONDUCTION EQUATIONS IN NOSE OF BLUNT HYPERSONIC PROJECTILE
CARDE-TN-1593/64 N64-33821 24-13

THERMAL CONDUCTIVITY OF ABLATING SLAB WITH MIXED TIME-DEPENDENT BOUNDARY CONDITIONS EXPRESSED AS NUMERICAL SOLUTION OF FIRST-ORDER NON-LINEAR DIFFERENTIAL EQUATION
R-62-26 N64-33833 24-13

CONDUCTIVITY
SA PHOTOCONDUCTIVITY
SA SUPERCONDUCTIVITY
ATMOSPHERIC ELECTRIC MEASUREMENTS AT HIGH MOUNTAIN STATIONS - CLOUDS, PRECIPITATION, AND CHARGE
JPRS-21604 N64-10200 01-12

SOVIET RESEARCH ON IONOSPHERIC ELECTRON DENSITY & CONDUCTIVITY OF SOIL
JPRS-21739 N64-10276 01-12

SOIL CONDUCTIVITY AND CORRELATION TO COMPOSITION, SALT, & WATER CONDITIONS N64-10279 01-12

CONDUCTIVITY & DEPTH OF NONCONDUCTING STRATUM FOR CYLINDRICAL MODEL OF EARTH, CALCULATED FROM GEOMAGNETIC VARIATION DATA N64-10280 01-12

DIRECTIONAL ELECTROMAGNETIC INDUCTION SOUNDING FOR HIGH CONDUCTIVITY STRUCTURES COVERED BY LOW CONDUCTIVITY ROCKS - GEOLOGICAL SURVEY N64-11491 03-12

THEORY OF CONDUCTIVITY PROBE - MASS OF COLLIDING PARTICLES AND ORBITS OF IONS & NEUTRAL PARTICLES
NASA-CR-55101 N64-12401 03-24

CONDUCTIVITY & POLARIZABILITY OF URANIUM AND URANIUM CARBIDE AT OPTICAL FREQUENCIES
EUR-463.E N64-12917 04-23

ELECTRICAL CONDUCTIVITY & MAGNETIC PROPERTIES OF ORGANIC COMPLEXES WITH CHARGE MIGRATION
E-T-R-63-3 N64-13114 04-07

RESISTIVE CELL STUDIES, COARSE-GRAIN-COMPOSITE STRENGTH & CONDUCTIVITY, FINE-GRAIN-COMPOSITE PREPARATION, AND DESIGN OF SMALL LIQUID METAL CELL N64-15625 07-09

HIGH FREQUENCY TREATMENT OF CADMIUM SULFIDE SINGLE CRYSTAL TO INCREASE CONDUCTIVITY N64-17968 10-25

SPECTRAL TRANSPARENCY OF ATMOSPHERE TO SOLAR RADIATION
FTD-MT-63-16/162 N64-18664 11-12

ATMOSPHERIC ELECTRIC CURRENT FLOW AND CONDUCTIVITY
USAELRDL-TR-2394 N64-19375 12-23

SOLUTION AND CONDUCTIVITY OF FLUORINE-CONTAINING LIQUID OXIDIZER
REPT.-144-Q3 N64-20573 13-26

ENERGY GAP MEASUREMENTS FOR ORGANIC FREE RADICAL CONDUCTIVITY STUDY
AD-440814 N64-21366 14-25

VISCOSITY, CONDUCTIVITY, AND HYDROGEN ION CONCENTRATIONS IN WATER SOLUTIONS OF VINYLPYRIDINE COPOLYMER WITH METHACRYLIC ACID
FTD-TT-62-1572/1&2&4 N64-22149 15-07

HIGH ENERGY DENSITY NONAQUEOUS BATTERIES - GENERAL ENERGY CONSIDERATION ON ROLE OF SOLVENT N64-22887 16-06

EFFECT OF FINITE CONDUCTIVITY ON RADAR CROSS SECTIONS OF METAL BODIES N64-24317 17-08

THERMAL AND ELECTRICAL CONDUCTIVITIES OF BIOLOGICAL FLUIDS AND TISSUES
GLR-24 N64-25892 18-16

HIGH FREQUENCY CONDUCTIVITY TENSOR OF HOT, DILUTE, ELECTRON GAS NEAR EQUILIBRIUM
RM-4109-PR N64-25985 18-24

LOW FREQUENCY ELECTROMAGNETIC CONDUCTIVITY OF LOW DENSITY HIGH TEMPERATURE PLASMA
RM-3755-PR N64-26049 18-24

SUPERCONDUCTING-TO-NORMAL CONDUCTING TRANSITIONS IN STRIP TRANSMISSION LINES
NASA-RP-244 N64-26073 18-23

RADAR SCATTERING FROM CONDUCTING CONE-SPHERE
ESD-TDR-64-37 N64-26760 18-08

SOLUTION AND CONDUCTIVITY STUDIES IN FLUORINE-CONTAINING LIQUID OXIDIZER
REPT.-144-Q4 N64-27566 19-26

ADHESIVES WITH HIGH FLEXIBILITY AND CONDUCTIVITY AT LOW TEMPERATURES
MLM-1207 N64-28501 20-07

RADIAL HEAT FLOW APPARATUS FOR HIGH TEMPERATURE THERMOCONDUCTIVITY MEASUREMENTS
GEMP-296 N64-29391 21-15

MEASUREMENTS OF DARK CONDUCTIVITIES IN FERROCENE CRYSTALS
TR-2459 N64-30581 22-25

COMPENSATION LIMITED CONDUCTIVITY IN CADMIUM AND ZINC BINARY SEMICONDUCTORS N64-31643 23-25

CONDUCTIVITY TENSOR DUE TO COULOMB INTERACTIONS IN STRONG MAGNETIC FIELD
ARL-63-90 N64-33444 24-24

IONIZATION AND CONDUCTIVITY OF INORGANIC NITROGEN-FLUORINE COMPOUNDS FOR PROPELLANT OXIDIZERS
EC-670 N64-33926 24-07

CONDUCTOR
SA EXPLODING CONDUCTOR
SA PHOTOCONDUCTOR
SA SEMICONDUCTOR
SA SUPERCONDUCTOR
OPTIMUM FORM FOR RADIATION-COOLED HEAT-CONDUCTING FINS N64-10692 02-23

IRRADIATION OF HEAT CONDUCTING FINS IN RELATION TO OPTIMUM FORM N64-10693 02-23

OPERATION OF COAXIAL PLASMA ACCELERATOR WITH LARGE RATIO OF OUTER TO INNER CONDUCTOR RADIUS
SIT-88 N64-11448 03-24

BIBLIOGRAPHY - VACUUM-DEPOSITED THIN FILM CONDUCTORS, CAPACITORS, RESISTORS, & CONNECTORS
SB-63-15 N64-13075 04-09

VLF WAVE PROPAGATION IN HIGHLY CONDUCTING MEDIUM
AFCRL-64-145 N64-18903 11-23

ADMITTANCE OF APERTURE ANTENNAS RADIATING INTO CONDUCTING OR DISSIPATIVE MEDIA
NASA-CR-53849 N64-19991 12-09

LAP SHEAR STRENGTH AND THERMAL CONDUCTIVITY STUDY OF ADHESIVES
A750 N64-22592 15-19

DIFFRACTION OF HIGH FREQUENCY PLANE ELECTROMAGNETIC WAVE BY CONDUCTING CIRCULAR DISC
EM-189 N64-23937 16-23

SURFACE CURRENTS IN THIN CONDUCTING SHEETS FOR CALCULATION OF RADAR REFLECTION AND SCATTERING N64-24293 17-08

ABLATION OF SOLID LOW CONDUCTIVITY MATERIAL
PIBAL-683 N64-26064 18-13

MECHANICAL PROPERTIES AND DEFORMATION CHARACTERISTICS OF METALS AND ALLOYS UNDER PRESSURE
NEL-142 N64-27187 19-18

SIMILARITY RULES OF FLOW OF PERFECTLY CONDUCTING GAS WITH ALIGNED MAGNETIC FIELD

ARL-64-113 N64-27468 19-24

EFFECT OF COMPRESSIBILITY, ROTATION, AND MAGNETIC FIELD ON DRAG ON SPHERE OSCILLATING IN CONDUCTING VISCOUS MEDIUM
NASA-TM-X-55051 N64-28084 20-11

BOUNDARY LAYERS IN ELECTRICALLY CONDUCTING FLUIDS - PLASMA BOUNDARY LAYERS
N64-28187 20-11

THERMOCONDUCTIVITY AND RADIANT ENERGY MEASURING APPARATUS FOR NONELECTRIC CONDUCTORS AT HIGH TEMPERATURES
NASA-CR-58132 N64-28966 20-15

PROPERTIES OF ANTENNAS IN CONDUCTING MEDIA - INSULATED DIPOLE AND BARE CIRCULAR LOOP ANTENNAS
AFCRL-64-436 N64-32181 23-08

MAGNETOATMOSPHERIC WAVES IN HORIZONTALLY STRATIFIED CONDUCTING MEDIUM
A&ES-64-8 N64-32469 23-28

RADIATING AND CIRCUIT PROPERTIES OF CIRCULAR LOOP ANTENNA IMMERSED IN CONDUCTING MEDIA
AFCRL-64-339 N64-32617 23-08

COMPOSITES OF CERAMIC OXIDES & REFRACTORY METAL AS LOW DENSITY, LOW THERMAL CONDUCTIVITY INSULATORS - HIGH TEMPERATURE THERMAL CONDUCTIVITY APPARATUS
NASA-CR-59210 N64-33121 24-17

CONE
SA CONICAL SHELL
PRESSURE MEASUREMENTS AT SUPERSONIC SPEEDS ON UNCAMBERED CONICAL WINGS WITH SHARP LEADING EDGES
ARC-CP-641 N64-10161 01-03

EFFECT OF CHANGES IN BASE CONTOUR ON DAMPING IN PITCH OF BLUNTED CONE IN WIND TUNNEL
NASA-TN-D-2062 N64-10183 01-02

CONICAL HORN-REFLECTOR ANTENNA FOR SATELLITE COMMUNICATIONS GROUND STATION N64-10884 02-08

APPROXIMATE SOLUTION FOR FLOW OVER AXISYMMETRIC CONES AT HYPERSONIC VELOCITIES
RM-221 N64-11239 02-02

EQUILIBRIUM TURBULENT HYPERSONIC WAKE CHARACTERISTICS OF SLENDER CONE WITH DIFFERENT EDDY VISCOSITY COEFFICIENTS
R63SD71 N64-11292 02-02

JET PLUMING EFFECT ON TWO FREE-FLIGHT ROCKET-PROPELLED CONE-CYLINDER-FLARE VEHICLES DETERMINED BY COMPUTER SIMULATION
NASA-TN-D-2018 N64-11552 03-27

FLOW PARAMETERS IN SIX DEGREE CONICAL DIFFUSERS
N64-11875 03-02

HYPERSONIC CONE WAKE VELOCITIES FROM STREAK PICTURES
BSD-TDR-63-199 N64-12233 03-02

UNSTEADY PRESSURES ON CONE-CYLINDER BODIES AT TRANSONIC SPEEDS
AEDC-TDR-63-204 N64-12302 03-11

SPARK SCHLIEREN PHOTOGRAPHS OF FREE & SUPPORTED CONE AND SPHERE MODEL SUPERSONIC & HYPERSONIC WAKES
NASA-CR-53014 N64-13270 04-02

PRESSURE DISTRIBUTIONS & FLOW PATTERNS ON CONES WITH SHARP EDGES AT MACH 4
ARC-R&M-3340 N64-13359 04-02

THERMAL STRESS ANALYSIS OF SOLID ELASTIC BODY BOUNDED BY ONE OR TWO CONES
NRC-418 N64-13821 05-13

CONVECTIVE HEAT TRANSFER FROM TURBULENT BOUNDARY LAYER IN COOLED CONVERGENT-DIVERGENT CONICAL NOZZLE
NASA-CR-55317 N64-13936 05-13

FLOW VISUALIZATION MEASUREMENTS MADE ON CONES IN WATER TUNNEL
LR-385 N64-14067 05-11

TABULATION OF BASE FLOW PROPERTIES FOR CONES AND WEDGES
EOS-RN-17 N64-14100 05-02

NONEQUILIBRIUM THERMAL IONIZATION OF AIR IN HYPERSONIC FLOWS OVER SHARP CONES
BSD-TDR-63-231 N64-14780 06-11

CONE-AND-COLUMN DOUBLE REFLECTOR SOLAR CONCENTRATOR FOR SPACE EXPLORATION
NASA-CR-52845 N64-14904 06-06

DEFLECTRON ENGINEERING - REDESIGN OF NARROW-ANGLE DEFLECTRON, PROCESSING CERAMIC SUBSTRATE CONES, & VACUUM-METALLIZING TECHNIQUES
AD-403324 N64-15369 07-09

LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF BLUNTED CONES AT HYPERSONIC AND SUPERSONIC SPEEDS
NASA-TN-D-2201 N64-15404 07-02

HEAT TRANSFER AND PRESSURE DISTRIBUTION ON HEMISPHERE-CONE MODELS - OPTIMUM LEADING EDGES AT HIGH SPEEDS N64-15627 07-03

THEORETICAL AND EXPERIMENTAL HEAT TRANSFER TO YAWED SPHERE-CONE MODEL AT SUPERSONIC SPEEDS
N64-15639 07-13

SOMMERFELDS COMPLEX ORDER WAVE FUNCTIONS TO SOLVE PROBLEM OF RADIATION FROM DIELECTRIC CONE
AFCRL-63-47 N64-15810 07-23

BASE FLOW CLOSURE ANGLE DATA FROM PHOTOGRAPHS OF POINTED CONES IN FREE FLIGHT
EOS-RN-21 N64-15958 07-02

SUPERSONIC PARACHUTE USING SOLID CONE AND FLEXIBLE CANOPY
AGARD-445 N64-16298 08-04

INDUCED PRESSURES AND SHOCK SHAPES ON BLUNT CONES IN HYPERSONIC FLOW - EXTENSION OF BLAST-WAVE PARAMETERS
NASA-TN-D-2182 N64-17158 09-02

RECOVERY FACTOR AND HEAT TRANSFER DISTRIBUTIONS ON SET OF CONE MODELS - LAMINAR HYPERSONIC CAVITY FLOWS
ARL-63-73, PT. 2 N64-17329 09-02

HEAT TRANSFER AND RECOVERY TEMPERATURES OF TURBULENT BOUNDARY LAYER ON SHARP CONE WITH FOREIGN GAS INJECTION
NASA-TN-D-2230 N64-17827 09-13

RAREFIED HYPERSONIC FLOW ABOUT BLUNT AXISYMMETRIC BODIES, CYLINDERS NORMAL TO & INCLINED TO STREAM, AND POINTED CONES
ARL-64-27 N64-18019 10-11

TABLES FOR SUPERSONIC FLOW AROUND RIGHT CIRCULAR CONES AT ZERO ANGLE OF ATTACK
NASA-SP-3004 N64-18949 11-02

REENTRY BODY - LONGITUDINAL STABILITY AND PRESSURE CENTER LOCATION ON SHARP RIGHT CIRCULAR CONES AT HYPERSONIC SPEEDS
NASA-TN-D-2283 N64-19322 12-02

LAMINAR BOUNDARY LAYER TRANSITION ON TEN-DEGREE CONE IN HYPERSONIC FLOW
REPT.-64-RL-/3622C/ N64-21057 14-11

FLOW RELAXATION IN GASES & DEVIATION IN THERMODYNAMIC EQUILIBRIUM IN FLOW AROUND CONES
FTD-TT-63-655/1&2 N64-21934 15-11

DECOMPOSITION OF CONES IN MODULES OVER ORDERED RINGS - BOOLEAN ALGEBRA

MRC-463 N64-22602 15-20

GAS FLOW WITH FRICTION AND HEAT EXCHANGE IN SUPERSONIC CONICAL COOLED NOZZLE
FTD-TT-63-1040/1&2 N64-22663 15-11

CORRELATION GRAPHS FOR SUPERSONIC FLOW OVER RIGHT CIRCULAR CONES
NASA-TN-D-2339 N64-22673 15-02

HYPERSONIC FLOW PAST SLENDER BLUNT ELLIPTIC CONES
N64-23677 16-11

OPTICAL MEASUREMENTS ON CONES AND CYLINDERS - LIGHT REFLECTION
EDL-M614 N64-24758 17-23

SUPERSONIC FLOW AROUND RIGHT CIRCULAR CONES AT SMALL ANGLES OF ATTACK
NASA-SP-3007 N64-25017 17-02

AIR IONIZATION IN HYPERSONIC LAMINAR WAKE OF SHARP CONES
BSD-TDR-64-81 N64-25245 17-03

HYPERSONIC STABILITY AND CONTROL OF CIRCULAR AND ELLIPTIC CONES
R-63-011-109 N64-25380 17-23

VISCOUS INCOMPRESSIBLE FLOW INSIDE CONE
AD-432196 N64-25635 17-11

SURFACE TEMPERATURE AT NOSE OF PROJECTILE
CARDE-TR-481/64 N64-26097 18-13

UNIFORMLY VALID SOLUTION FOR FLOW OVER INCLINED CONE USING ASYMPTOTIC EXPANSION
AFOSR-64-1056 N64-26188 18-03

RADAR SCATTERING FROM CONDUCTING CONE-SPHERE
ESD-TDR-64-37 N64-26760 18-08

CONICAL BODIES OF LEAST RESISTANCE IN HYPERSONIC GAS FLOW
NASA-TT-F-8920 N64-26770 18-02

JET SPREADING CHARACTERISTICS FROM CONICAL UNDEREXPANDED NOZZLES INTO QUIESCENT ATMOSPHERE
AEDC-TDR-64-95 N64-26916 18-02

EXPLOSION PRODUCT FROM CONICAL PLASMA GUN AND EXPLODING WIRES IN RAIL GUN SYMMETRIES
AD-441171 N64-27690 19-24

CALIBRATION OF CONE TO MEASURE MACH NUMBER, TOTAL PRESSURE, AND FLOW ANGLES AT SUPERSONIC SPEEDS
ARC-CP-628 N64-28070 20-02

BOUNDARY LAYER MEASUREMENT IN HYPERSONIC WIND TUNNEL CONICAL NOZZLE
ARL/A-215 N64-28419 20-11

COMPUTATION OF SUPERSONIC FLOW PAST YAWED CONES BY METHOD OF INTEGRAL RELATIONS
AS-64-7 N64-28559 20-11

JET IMPINGEMENT FORCES ON CYLINDER IN EXHAUST FLOW OF CONICAL NOZZLE ISSUING INTO VACUUM ENVIRONMENT
U-2634 N64-28960 20-11

GEOMETRY OF ORTHOGONAL NON-HYPOIDAL CYLINDRICAL-CONICAL TRANSMISSION N64-29150 21-15

STATIC AERODYNAMIC CHARACTERISTICS OF BLUNTED CONES AND ROUNDED CYLINDERS AT SUPERSONIC AND HYPERSONIC SPEEDS
NASA-CR-58666 N64-29212 21-02

FLOW EFFECTS ON AERODYNAMIC CHARACTERISTICS OF SEVERAL CONFIGURATIONS OF CONICAL CONTOURED NOZZLES AT HYPERSONIC SPEED
NASA-TN-D-2489 N64-29496 21-02

INSTRUMENTATION, TEST PROGRAMS, FACILITY STATUS, AND CONE LAUNCH DEVELOPMENT PROGRAM
BSR-984 N64-30020 21-15

NUMERICAL CALCULATIONS OF HEAT TRANSFER RATES ON SPHERES AND CONES IN AIR AT THERMODYNAMIC EQUILIBRIUM
CARDE-TR-479/64 N64-31018 22-13

COMPARISON OF THEORETICAL LAMINAR HEAT TRANSFER RATES TO YAWED SPHERE-CONE MODEL AT SUPERSONIC SPEEDS
NOLTR-63-208 N64-31669 23-13

TRANSONIC WIND TUNNEL TESTS TO DETERMINE NOSE CONE AND FIN TAB EFFECT ON ZERO LIFT DRAG OF PRACTICE BOMB
DTMB-AERO-1078 N64-32040 23-02

LAUNCHING OF AERODYNAMICALLY STABLE CONES BY LIGHT GAS GUN
CARDE-TN-1604/64 N64-33488 24-10

ELECTROMAGNETIC WAVE BACKSCATTERING RADAR CROSS SECTION OF FINITE CONE
TR-EE64-14 N64-33534 24-08

NOSE CONE SHAPE, AFTERBODY LENGTH, & SUPERSONIC SPEED VARIATION EFFECT ON AERODYNAMIC CHARACTERISTICS OF AXISYMMETRIC BODY
RF-TR-64-13 N64-33646 24-02

IBM 1620 COMPUTER PROGRAM FOR SOLUTION OF HEAT CONDUCTION EQUATIONS IN NOSE OF BLUNT HYPERSONIC PROJECTILE
CARDE-TN-1593/64 N64-33821 24-13

CONFERENCE

CONFERENCE - AEROSPACE EXPANDABLE STRUCTURES
AD-432006 N64-23701 16-01

CONFERENCE ON RADAR REFLECTION PROPERTIES - CROSS SECTION, BACKSCATTER, AND MEASUREMENT METHODS
RADC-TDR-64-25, VOL. I N64-24281 17-15

PLASTIC MATERIALS - CONFERENCE
PLASTEC-14 N64-24333 17-19

CONFERENCE ON MARAGING STEEL TECHNOLOGY
RTD-TDR-63-4048 N64-24351 17-18

SYMPOSIUM ON TOXICITY IN NUCLEAR SUBMARINES AND MANNED SPACECRAFT
AD-440942 N64-24606 17-16

FLUID AMPLIFICATION - CONFERENCE
AD-602002 N64-25301 17-11

REFRACTORY MATERIALS AND COMPOSITES - CONFERENCE
DMIC-MEMO-192 N64-26913 18-19

REFRACTORY MATERIALS - CONFERENCE
RTD-TDR-63-4131, VOL. 1 N64-27005 19-17

CONFERENCE ON MECHANICS OF GASES, LIQUIDS, AND SOLIDS
FTD-TT-63-471/1&2 N64-27086 19-23

CONFERENCE ON CRYSTAL GROWTH, MOLTEN SALTS AND SLAGS, PLANT DISEASES, AND SYNTHETIC DIAMONDS
JPRS-25417 N64-28008 20-01

MEASUREMENT AND SIMULATION OF SPACE ENVIRONMENT - NASA CONFERENCE
NASA-TM-X-55015 N64-28201 20-23

CONFERENCE ON PEACEFUL USES OF ATOMIC ENERGY
AEC-TR-6398, VOL. 1 N64-28284 20-23

CONFERENCE ON LUNAR EXPLORATION
N64-28405 20-29

CONFERENCES ON METALLURGY - WELDING, CREEP, HEAT TREATMENT, ELECTRODEPOSITION, DUCTILITY, HIGH TEMPERATURE PHYSICS, CALORIMETRY
JPRS-24651 N64-28734 20-18

ABSTRACTS OF PAPERS PRESENTED AT CONFERENCE ON COMBUSTION
NASA-CR-58629 N64-28893 20-26

PHYSICAL SCIENCES - CONTROLLED RELEASE OF THERMONUCLEAR ENERGY, MEASUREMENT APPARATUS, CONFERENCES, AND PUBLICATIONS
AEC-TR-5332 N64-29052 21-23

CONFERENCE ON SPECTROSCOPY OF ATOMS, MOLECULES, AND SOLIDS
N64-29057 21-23

CONFERENCE ON ELEMENTARY PARTICLES - PARITY NONCONSERVATION IN WEAK INTERACTIONS
N64-29060 21-23

CONFERENCE ON SPACE RESEARCH
N64-29094 21-01

MISSILE TRACKING SYSTEMS - CONFERENCE
MTC-TDR-64-5
N64-29101 21-08

CONFERENCE ON RADIATION RESISTANCE AND DAMAGE IN SILICON SOLAR CELLS AND PHOTOVOLTAIC DEVICES
NASA-CR-58680
N64-29152 21-06

CONFERENCE ON CONTROL OF METEOROLOGICAL PROCESSES
T-R-438
N64-29444 21-21

FAR INFRARED PHYSICS SYMPOSIUM
AD-440195
N64-29477 21-23

ENERGY CONVERSION & STORAGE SYSTEMS AND DEVICES - CONFERENCE
N64-29484 21-06

PROCEEDINGS OF ELEVENTH GENERAL CONFERENCE OF WEIGHTS AND MEASURES
NASA-TT-F-217
N64-30088 21-23

CONFERENCE ON BIOASTRONAUTICS - WEIGHTLESSNESS, SPACECRAFT STERILIZATION, ASTHENOPIA IN RADAR OBSERVERS, & HYPOBARIC ADAPTATION BY PERSONNEL
FTD-TT-64-556/1&2&3&4
N64-30163 21-29

CONFERENCE ON SOLAR FLARES
NASA-SP-50
N64-30251 22-28

CONFERENCE ON PEACEFUL USES OF SPACE
NASA-SP-51
N64-30326 22-01

CONFERENCE REPORTS ON USING RADIOACTIVE ISOTOPES AND NUCLEAR RADIATION IN MECHANICS, GEOLOGY AND CHEMISTRY
AEC-TR-6390
N64-31024 22-23

DEVELOPMENT & MANAGEMENT OF COMPUTER CENTERED DATA BASE - SYMPOSIUM
N64-31033 22-20

ROTATING AND STATIC PRECISION COMPONENTS SYMPOSIUM
AD-603137
N64-31476 23-17

ADVANCED PROPULSION CONCEPTS - SYMPOSIUM
N64-31601 23-27

SUMMARY OF PAPERS PRESENTED AT CONFERENCE ON BIOLOGICAL AND MEDICAL RESEARCH RELATED TO CHEMISTRY
JPRS-26845
N64-32164 23-16

ELECTROMAGNETIC WINDOW CONFERENCE - FABRICATION AND TESTING OF AIRBORNE RADOMES AND HYPERSONIC ENVIRONMENT
AD-605391
N64-32213 23-17

CONFERENCE ON ATMOSPHERIC ACOUSTIC PROPAGATION
AD-449237
N64-32254 23-23

CONFERENCE ON TRENDS IN NEUTRON ACTIVATION ANALYSIS
N64-32500 23-07

STANDARDS LABORATORY CONFERENCE - CALIBRATION AND MEASUREMENT
NBS-MISC-PUBL-248
N64-32528 23-10

NEW AGE OF DISCOVERY - SPACE EXPLORATION AND ENVIRONMENT, LUNAR ORBIT AND LANDING, AND APOLLO SPACECRAFT
N64-32634 23-01

CONFERENCE ON AEROSPACE TECHNOLOGY - MATERIALS, FABRICATION PROCESSES, ELECTRIC POWER GENERATION, INSTRUMENTATION, LUBRICATION, SUPERCONDUCTIVITY, AND PLASMA PHYSICS
NASA-SP-5015
N64-32767 24-01

CONFERENCE ON COSMIC RAYS AND NEUTRINOS
JPRS-27105
N64-33059 24-28

INDEXED BIBLIOGRAPHY OF CONFERENCE PAPERS ON PLASTIC MATERIAL
PLASTEC-17
N64-33137 24-19

CONFERENCE ON BIOASSAY AND ANALYTICAL CHEMISTRY
TID-7696
N64-33139 24-07

ZOOLOGY CONFERENCE - INVERTEBRATES, MARINE LIFE, PARASITES, VERTEBRATES, PALEONTOLOGY, ZOOGEOGRAPHY AND ECOLOGY
NASA-CR-59306
N64-33512 24-16

ZOOLOGY CONFERENCE - ENDOCRINE SYSTEMS, ADAPTATION OF MAMMALS, CHEMORECEPTION, NUCLEO-CYTOPLASMIC RELATIONS, FUNCTIONAL MORPHOLOGY, AND EVOLUTION
NASA-CR-59305
N64-33514 24-16

ZOOLOGY CONFERENCE - NORTH AMERICAN FAUNA, INSECT ENDOCRINOLOGY, MAMMALIAN EVOLUTION, MIMICRY, BLOOD PROTOZOA, CHROMOSOME STRUCTURE, AND ECOLOGY
NASA-CR-59304
N64-33515 24-16

CONGRESS OF ZOOLOGY SYMPOSIUM ON NATURE, MAN, AND PESTICIDES
NASA-CR-59303
N64-33687 24-16

RELAY SYSTEMS AND AUTOMATIC CONTROL TECHNOLOGY - CONFERENCE
FTD-MT-63-257
N64-33702 24-09

IRRADIATION CAPSULES FOR REACTOR FUEL EVALUATION - SYMPOSIUM
TID-7697
N64-33916 24-10

CONFIGURATION
S AIRCRAFT CONFIGURATION
S MISSILE CONFIGURATION
S SATELLITE CONFIGURATION
S SPACECRAFT CONFIGURATION

CONFINEMENT
CF CONTAINMENT
CF REACTOR CONTROL
CF SENSORY DEPRIVATION
HUMAN GROUP PERFORMANCE DURING CONFINEMENT
ER-6024
N64-15747 07-14

HANDLING OF HIGH ENERGY FUEL OXIDIZERS AND TOXIC MATERIALS IN CONFINED AREAS
NSL-64-244
N64-33368 24-17

CONFORMAL TRANSFORMATION
ELECTROMODELING OF CONFORMAL TRANSFORMATION SOLUTION OF TWO-DIMENSIONAL PROBLEM OF ELASTICITY OF SINGLY AND DOUBLY CONNECTED REGIONS
TIL/T-5449
N64-18278 10-33

CONFORMAL TRANSFORMATION IN SYNTHESIS OF LOSSLESS TWO-PORT COUPLING NETWORK
TR-7
N64-24079 16-09

CONGRESSIONAL HEARING
INDEX OF SUBJECTS AND PERSONAL NAMES FOR SENATE HEARINGS ON 1965 AUTHORIZATION FOR NASA PROGRAMS
N64-27237 19-01

CONICAL SHELL
STRESSES IN SEGMENT OF ISOTROPIC TRUNCATED CONICAL SHELL WITH LINEARLY VARYING THICKNESS SUBJECTED TO LATERAL NORMAL LOAD
NASA-CR-52082
N64-11336 02-33

INSTABILITY EQUILIBRIUM EQUATIONS OF ORTHOTROPIC CIRCULAR CONICAL SHELL SUBJECTED TO HYDROSTATIC PRESSURE AND COMPRESSIVE AXIAL FORCE
NASA-CR-52083
N64-11337 02-33

AERODYNAMIC HEATING OF CONICAL VEHICLES ENTERING EARTH ATMOSPHERE AT SPEEDS GREATER THAN EARTH PARABOLIC SPEED
NASA-TR-R-185
N64-12107 03-30

METHODS FOR PREDICTING DEFORMATION BEHAVIOR OF CORRUGATED CYLINDRICAL AND CONICAL SHELL STRUCTURES - ENERGY ABSORPTION
AFOSR-64-0154
N64-18037 10-33

ROTATIONALLY SYMMETRIC MOTION OF SMALL ANGLE TRUNCATED CONICAL SHELL DUE TO CONSTANT VELOCITY PRESSURE FRONT
AMRA-TR-63-28
N64-18135 10-33

REPEATED BUCKLING OF CIRCULAR CYLINDRICAL SHELLS AND CONICAL SHELLS BY AXIAL COMPRESSION
SUDAER-175 N64-18843 11-33

SHEARING FORCES IN CYLINDRICAL OR SECTIONALLY VARIABLE THIN CONICAL SHELLS
DVL-274 N64-21528 15-33

FREE VIBRATIONS OF SIMPLY SUPPORTED TRUNCATED CONICAL SHELL
SSD-TDR-64-15 N64-22318 15-33

PARTIAL DIFFERENTIAL EQUATIONS FOR ASYMMETRICAL LOADING OF CONICAL SHELLS N64-22487 15-34

STRESS-STRAIN DISTRIBUTION ON THIN WALLED CONICAL WING SHELLS USING VLASOV EQUATION
N64-23072 16-33

CALCULATION OF BENDING AND TORSION OF CONICAL SHELLS BY VARIATIONAL METHOD N64-24632 17-34

SPACE-CHARGE WAVE PROPAGATION ALONG PERIODICALLY VARYING ELECTRON BEAM
NASA-CR-56542 N64-24840 17-33

FORTRAN II COMPUTER PROGRAM FOR EVALUATION OF DONNELL TYPE DIFFERENTIAL EQUATION FOR ORTHOTROPIC CIRCULAR-CONICAL SHELL N64-24842 17-33

ASYMPTOTIC SOLUTION FOR CONICAL SHELLS OF LINEARLY VARYING THICKNESS N64-24843 17-33

STABILITY OF REINFORCED CYLINDRICAL AND CONICAL SHELLS - ANNOTATED BIBLIOGRAPHY
N64-24844 17-33

STABILITY OF INTERNAL PRESSURIZED CONICAL SHELL UNDER TORSION
SSD-TDR-64-14 N64-26183 18-33

CONJUGATED SYSTEM
ELECTROPHYSICAL AND SEMICONDUCTOR PROPERTIES OF CONJUGATED BOND POLYMERS - SCHIFF BASES
JPRS-21573 N64-10116 01-07

CONNECTOR
ELECTRICAL CONNECTIONS - INSTRUCTION HANDBOOK
NASA-SP-5002 N64-15733 07-17

TESTING PROCEDURES & CONNECTOR DESIGN FOR SILVER-CADMIUM BATTERY
NASA-CR-55790 N64-16010 07-06

MULTICONTACT ELECTRICAL CONNECTORS
PA-TM-1242 N64-17964 10-09

MEASUREMENT OF TRANSIENT RADIATION EFFECTS ON CAPACITORS, RESISTORS, CONNECTORS, AND COAXIAL CABLES N64-19034 11-23

THERMAL RELEASING CONNECTOR DEVICE REGULATION
AD-436825 N64-20135 13-06

PRINTED CIRCUIT CONNECTORS FOR PLUG-IN-MICROASSEMBLIES
REPT.-4 N64-25545 17-09

DESIGN AND DEVELOPMENT OF FLAT CABLE ELECTRICAL CONNECTORS
RG-TR-63-25 N64-26203 18-09

SEAL INTERFACE STUDIES, EXPERIMENTS ON GASKET MATERIALS AND GEOMETRY, AND DESIGN CRITERIA FOR ZERO LEAKAGE CONNECTORS
NASA-CR-56571 N64-27305 19-17

PERFORMANCE CHARACTERISTICS OF MINIATURE AND SUBMINIATURE CABLES AND CONNECTORS
NASA-CR-56543 N64-28920 20-09

CONSERVATION EQUATION
ELECTROMAGNETIC VIOLATION OF CONSERVATION OF VECTOR CURRENT
URPA-16 N64-13904 05-23

CONSERVATION LAW FOR ANGULAR MOMENTUM IN GENERAL RELATIVITY THEORY N64-27223 19-23

CONSTANT
S COUPLING CONSTANT
S DIELECTRIC CONSTANT
S ELASTIC CONSTANT
S GRAVITATIONAL CONSTANT
S GRUNEISEN CONSTANT

CONSTELLATION
CATALOG OF PHOTOGRAPHIC, PHOTOVISUAL, AND PHOTORED MAGNITUDES OF STARS IN AQUILA, HERCULES, AND CYGNUS CONSTELLATIONS
AID-T-63-51 N64-18281 10-05

CONSTITUTIONAL DIAGRAM
PREDICTION OF PHYSICAL STRUCTURE OF REFRACTORY METAL ALLOYS AT VARIOUS TEMPERATURES BY CONSTITUTION DIAGRAMS
WADD-TR-60-132, PT. 3 N64-24386 17-18

CONSTRUCTION
SA SANDWICH CONSTRUCTION
SPECTRAL DIFFUSE REFLECTANCE AND SIMULATED SOLAR ABSORPTANCE MEASUREMENTS FOR DETERMINATION OF SOLAR ABSORPTANCE OF SPACECRAFT MATERIALS
N64-10946 02-28

RADIOACTIVE ISOTOPES AND CONSTRUCTION INDUSTRY - MATERIALS SCIENCE
AEC-TR-5632 N64-11401 02-23

EFFECT OF SCIENTIFIC DEVELOPMENTS ON TRANSPORTATION, COMMUNICATION, POWER RESOURCES, AND CONSTRUCTION INDUSTRIES N64-11514 03-01

INDUCED RADIOACTIVITY IN BIOMATERIAL & INSTRUMENTS OF SATELLITES DURING SPACE FLIGHT
N64-11686 03-16

FORGED NICKEL-COBALT-MOLYBDENUM MARAGING STEEL EVALUATION FOR USE IN AIRCRAFT COMPONENTS
FZM-2731 N64-12375 03-18

OPTIMUM METHOD FOR FORMING CLOSED-RIBBED PLATE TO CYLINDRICAL AND SPHERICAL SHAPES FOR MISSILE COMPONENTS
NASA-CR-55749 N64-15868 07-17

CONSTRUCTION OF SNOW GROUND FACILITIES IN GREENLAND
TR-121 N64-16954 09-10

SPACECRAFT STRUCTURAL DESIGN AND MATERIALS RESEARCH
AIAA-CP-8 N64-19359 12-01

HYPERVELOCITY IMPACT OF SMALL GLASS SPHERES ON COMPOSITE SPACE STRUCTURES N64-19372 12-23

HOT CHROMIC ACID AS EPOXY STRIPPER ON AIRCRAFT METALS
A730 N64-22576 15-17

POLISH CIVIL AIRCRAFT CONSTRUCTION
FTD-TT-63-1105/1&2 N64-23440 16-02

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EBR-136 N64-28714 20-17

PHYSICAL PROPERTIES OF AIRCRAFT COATINGS AND PAINTS
NAEC-AML-1965 N64-29230 21-17

CONSTRUCTION OF ELECTROMAGNETIC ISOTOPE SEPARATOR
N64-32008 23-10

DIGITAL SELECTOR SWITCH MODULES FOR VIBRATION ENVIRONMENTAL TESTING
AD-447841 N64-32169 23-09

CONSTRUCTION AND TESTING OF GAS-BEARING GYROSCOPES
E-1612 N64-32473 23-15

EFFECTS OF NUCLEAR RADIATION COMBINED WITH CRYOGENIC TEMPERATURES ON NONMETALLIC SPACECRAFT

MATERIALS
NASA-CR-58830 N64-33043 24-17

CONSTRUCTION TOOLS FOR ORTHOGONAL ARRAYS AND MAPPINGS
ARL-64-102 N64-33268 24-20

CONTACT
SA ROLLING CONTACT
PROPERTIES OF METAL-CERAMIC ELECTRIC CONTACTS AS BASIS FOR POWDER METALLURGICAL STUDY OF HIGH VOLTAGE BREAKING SYSTEMS - WEARING CONDITIONS
JPRS-18926 N64-10648 01-09

MECHANICAL AND THERMAL EFFECTS ON CONTACT RESISTANCES
RSIC-116 N64-13765 05-23

CALCULATION METHOD FOR DETERMINING THERMAL CONTACT RESISTANCE BETWEEN TWO ROUGH SURFACES
RSIC-117 N64-15569 07-13

EXPERIMENTAL DETERMINATION OF THERMAL CONTACT RESISTANCE VALUES
RSIC-128 N64-15740 07-13

MULTICONTACT ELECTRICAL CONNECTORS
PA-TM-1242 N64-17964 10-09

SURFACE DAMAGE AS RESULT OF HIGH SPEED SLIDING CONTACTS - FLUID LUBRICANTS
MTI-63TR41 N64-18068 10-17

TEMPERATURES ON SURFACES AT SLIDING CONTACT - FRICTION HEATING
RSIC-142 N64-18645 11-17

HAZARDS IN USE OF DOUBLE-THROW ELECTRIC CONTACTS IN RELAYS N64-19504 12-09

ELECTRIC CONTACT CONTAMINATION FROM FRETTING CORROSION IN AC COIL RELAYS N64-19507 12-09

ADJUSTING-MONITORING TECHNIQUES FOR MERCURY-WETTED CONTACT RELAYS N64-19520 12-09

VIBRATION CONTROL IN ELECTROMAGNETIC RELAYS - CONTACT SYSTEM DESIGN OF RELAYS N64-19540 12-23

TEMPERATURE DEPENDENCE OF CONTACT RESISTANCE OF IRON PLATED LEAD TELLURIDE CONTACT N64-19839 12-25

SPECIFICATION OF MATERIALS FOR LOW LEVEL ELECTRICAL CONTACTS - SPACE VEHICLE AND GROUND SUPPORT EQUIPMENT
NASA-CR-53901 N64-19901 12-09

STOCHASTIC MODEL FOR DETERMINING INTERFACE TEMPERATURES OF SOLIDS IN SLIDING CONTACT
RTD-TDR-63-4184 N64-21179 14-13

CONTACT HEAT TRANSFER BETWEEN PLANE METAL SURFACES
TIL/T-5407 N64-27040 19-13

THERMAL RESISTANCE AT SURFACE OF METALS IN CONTACT
RSIC-215 N64-27051 19-13

OPTICAL METHOD FOR DETERMINING ACTUAL CONTACT AREAS ON FRICTION PLANE
RSIC-192 N64-27489 19-19

FUNDAMENTAL STUDIES OF CONTACT FATIGUE
RS-421 N64-27544 19-18

HEAT TRANSFER MECHANISMS IN METALLIC CONTACT SURFACES IN VACUUM
NASA-CR-58705 N64-29513 21-13

THERMAL RESISTANCES IN CONTACT AREAS OF HEATING ELEMENTS
NASA-TT-F-8839 N64-31448 23-13

CONTACT POTENTIAL
CONTACT POTENTIAL METHOD FOR STUDY OF AUTOPHOBIC LIQUIDS ON PLATINUM SURFACE
NRL-6020 N64-18224 10-23

CONTAINER
SA FUEL TANK
SA STORAGE TANK
CF CASE
CF PACKAGING
CF TANK
TRANSPORTATION VIBRATION TESTING OF PERSHING MISSILE TACTICAL SHIPPING AND STORAGE CONTAINERS
RT-TR-63-9 N64-11770 03-04

IMPACT AND THERMAL TESTS ON TRANSPORT CONTAINERS FOR FISSIONABLE MATERIAL
LAMS-2983 N64-13166 04-01

STATIC & DYNAMIC TESTS ON LEAD-SHIELDED STEEL CASK USED FOR RAIL SHIPMENT OF RADIOACTIVE FUEL
DP-843 N64-13372 04-33

FAILURE OF PERSHING MISSILE SYSTEM TACTICAL SHIPPING AND STORAGE CONTAINER COMPONENTS DURING TRANSPORTATION VIBRATION TESTS
RT-TR-63-8 N64-14773 06-30

CONTAINERS, BONDING, AND ELECTROLYTES FOR SILVER-CADMIUM BATTERY
NASA-CR-55792 N64-16036 07-06

PROBLEMS OF MOLTEN LITHIUM HYDRIDE CONTAINER CORROSION AND LOSS OF HYDROGEN BY HYDROGEN PERMEABILITY OF CONTAINER MATERIALS
NASA-CR-54053 N64-22462 15-07

GLASS AS CONTAINER FOR RADIOACTIVE MATERIALS
HW-81862 N64-25646 17-23

CRYOGENIC FUEL STORAGE AND DISTRIBUTION SYSTEM - EXPERIMENTAL STUDY OF 50 GALLON LIGHTWEIGHT VESSEL
APCI-541301 N64-27519 19-06

INDICATIONS OF LEVEL, WETTING, & BUBBLES IN LIQUID SODIUM IN STAINLESS STEEL CONTAINER
EUR-1823.D N64-28136 20-13

REFRACTORY MATERIAL LINERS FOR EXTRUSION BILLET CONTAINERS
ML-TDR-64-194 N64-30117 21-17

CONTAINMENT
CF CONFINEMENT
CF REACTOR CONTROL
CONTAINMENT OF FRAGMENTS FROM RUNAWAY REACTOR - PROJECTILE PENETRATION ENERGY
SRIA-113 N64-10272 01-23

COMPATIBILITY OF LIQUID CESIUM WITH CONTAINMENT METALS
MSAR-63-172 N64-14356 06-18

BIBLIOGRAPHY - NUCLEAR REACTOR CONTAINMENT
NP-12980 N64-14871 06-23

EFFECTIVENESS OF DOUBLE CONTAINMENT VESSELS FOR HOLDUP OF AIRBORNE RADIOACTIVE MATERIALS IN EVENT OF REACTOR ACCIDENT
ORNL-3657 N64-30063 21-23

ABSOLUTE- AND REFERENCE-SYSTEM METHODS OF MEASURING CONTAINMENT-VESSEL LEAKAGE RATES
NASA-TN-D-1588 N64-30994 22-17

CONTAMINANT
SA TRACE CONTAMINANT
BRIGHTNESS OF DIFFUSING, CONTAMINANT GLOW CLOUDS IN UPPER ATMOSPHERE - CHEMILUMINESCENCE AND SOLAR RAY SCATTERING

HSA-84 N64-10223 01-12

GAS DYNAMICS AND CHEMICAL KINETIC EQUATIONS FOR HYPERSONIC CONTAMINATED NONEQUILIBRIUM WAKE SOLVED BY FINITE-DIFFERENCE SCHEME
R63SD68 N64-15959 07-24

CHEMISTRY - CHEMICALS AND RADIOACTIVE ISOTOPIC CONTAMINANTS IN AIR AND URINE
SC-4783/RR/ N64-17268 09-07

ORGANIC CONTAMINANTS - ATMOSPHERE ABOARD SUBMARINE
NRL-6074 N64-19393 12-16

SOLIDS MASS SPECTROMETER - NOISE PROBLEM AND PRODUCTION OF ARGON ION BEAM FREE OF CONTAMINANTS
NASA-CR-56039 N64-20642 13-15

TOXICITY OF CONTAMINANTS IN NUCLEAR SUBMARINES
N64-24609 17-16

EFFECTS OF ATMOSPHERIC CONTAMINANTS ON SUBMARINE AND SPACECRAFT EQUIPMENT N64-24613 17-16

INHALATION HAZARDS OF EXPOSURE TO ATMOSPHERIC CONTAMINANTS N64-24615 17-16

CARBON MONOXIDE CONTAMINANT IN NUCLEAR SUBMARINE ATMOSPHERE N64-24619 17-16

ACTIVATED CARBON SAMPLING OF ORGANIC CONTAMINANTS IN NUCLEAR SUBMARINE ATMOSPHERE
N64-24623 17-15

ATMOSPHERIC MONITORING OF CONTAMINANTS IN SPACE CABIN SIMULATOR N64-24624 17-15

ABSORPTION BED, CATALYTIC BURNER, AND FILTERING SYSTEM FOR TRACE CONTAMINANT REMOVAL
N64-24626 17-16

PARTICLE SIZE CONSIDERATIONS OF AIRBORNE CONTAMINANTS N64-24628 17-16

TECHNIQUES FOR IMPROVING DETECTION OF CONTAMINANTS IN LIQUID PROPELLANTS - BIBLIOGRAPHY
REPT.-2638 N64-25889 18-26

NEUROLOGIC ASPECTS OF HIGH BAROMETRIC PRESSURE PHENOMENA AND EFFECT OF ATMOSPHERIC CONTAMINANTS UPON NERVOUS SYSTEM ACTIVITY
AD-600259 N64-27693 19-16

MICROMETEOROLOGICAL PREDICTIONS OF DOSAGE AND CONCENTRATION LEVELS OF CONTAMINANT MATERIAL IN LOWER ATMOSPHERE
HW-83602 N64-33584 24-21

CONTAMINATION
CF DECONTAMINATION
PORTABLE RADIATION SURVEY INSTRUMENT FOR DETECTION AND MEASUREMENT OF RADIOACTIVE CONTAMINATION
HW-78872 N64-11208 02-15

DIAGNOSIS AND TREATMENT OF CONTAMINATION BY RADIOACTIVE ISOTOPES
JPRS-22610 N64-13320 04-16

FACILITY FOR PREVENTION OF SURFACE CONTAMINATION OF METALS DURING THERMAL-MECHANICAL CONVERSION TO SHEET AND BAR
MAB-99-LM N64-13950 05-10

IDENTIFYING AND MEASURING ARTIFICIAL AND NATURAL RADIOACTIVE CONTAMINANTS IN BIOSPHERE
AEC-TR-6049 N64-14408 06-23

HYGIENIC PROBLEMS IN RADIOACTIVE CONTAMINATION OF OUTER SPACE
JPRS-23284 N64-15397 07-16

ALPHA DECAY SCINTILLATION COUNTER FOR URANIUM SURFACE CONTAMINATION MEASUREMENT OF NUCLEAR REACTOR FUEL
HW-78268 N64-15998 07-23

INTERNAL SILICA CONTAMINATION OF URANIUM, THORIUM, AND YTTRIUM OXIDE FUELS N64-17001 09-23

DETECTION OF ALPHA CONTAMINATION FROM URANIUM DUST IN ATMOSPHERE
K-1589 N64-17742 09-15

CONTAMINATION EFFECTS ON LIQUID RUBIDIUM AND LIQUID LITHIUM SYSTEMS
ASD-TDR-63-413 N64-18930 11-18

ATMOSPHERIC LIGHT SCATTERING AND JET FUEL CONTAMINATION N64-19176 11-01

JET FUEL CONTANINATION N64-19177 11-26

ELECTRIC CONTACT CONTAMINATION FROM FRETTING CORROSION IN AC COIL RELAYS N64-19507 12-09

ANALYSIS OF HYDRAULIC FLUID FOR GELATINOUS AND POLYMERIZED CONTAMINATION
FZM-4045 N64-20073 13-07

TRANSISTORIZED ALPHA RADIATION DETECTOR FOR HAND CONTAMINATION DETECTION
RFP-348 N64-21350 14-15

RADIOCHEMICAL METHOD FOR ANALYSIS OF PESTICIDE CONTAMINATION IN FOOD PROCESSING
SAN-1022 N64-21590 15-07

RADIATION PROTECTION AND CONTAMINATION CONTROL FOR EXPERIMENTAL GAS-COOLED REACTOR
EGCR-4 N64-21837 15-16

BIOLOGICAL CONTAMINATION BY RADIOACTIVE ISOTOPES
FTD-TT-63-664/1 N64-22049 15-16

RADIOISOTOPIC DETECTION OF MICROBIAL CONTAMINATION PRESENT IN JET FUEL
ADR-09-08A-63.1 N64-22129 15-26

ADDITION EFFECT OF ALLOYING ADMIXTURES ON SCALING RESISTANCE AND OXYGEN CONTAMINATION OF BINARY ALLOY OF NIOBIUM AND ZIRCONIUM
FTD-TT-63-1020/1&2 N64-23435 16-18

ATMOSPHERIC CONTAMINATION IN NUCLEAR SUBMARINES
N64-24607 17-16

CONTAMINATION ANALYSIS OF NUCLEAR SUBMARINE AND MERCURY SPACECRAFT ATMOSPHERES N64-24608 17-16

MICROBIOLOGICAL CONTAMINATION OF MANNED AND UNMANNED SPACECRAFT N64-24611 17-16

INSTRUMENTATION FOR ANALYSIS OF MANNED SPACECRAFT CONTAMINATION N64-24620 17-15

CONTROLLED CONTAMINATION OF SEALED ELECTRONIC COMPONENTS FOR STUDY OF SPACECRAFT STERILIZATION PROCEDURES
SAM-TDR-63-73 N64-25040 17-16

NEUTRON AND REACTION CROSS SECTIONS, NEUTRON ACTIVATION ANALYSIS OF VARIOUS ELEMENTS, AND CARBON AND NITROGEN SURFACE CONTAMINATION OF BERYLLIUM SAMPLES
ASD-TDR-62-1038, PT. 3, VOL. I N64-27917 20-07

LIQUID MONOETHANOLAMINE INJECTION AND COOLANT INTERRUPTION TECHNIQUES FOR CONTROLLING HEAT EXCHANGER CONTAMINATION
REPT.-6058 N64-27920 20-06

DRY HEAT STERILIZATION OF SPACE PROBES - BIOLOGICAL, CHEMICAL, AND PHYSICAL FACTORS INFLUENCING EFFECTIVENESS
NASA-CR-58285 N64-28764 20-16

CONTAMINATION OF REFRACTORY METALS AND ALLOYS BY RESIDUAL GASES IN HIGH VACUUM SYSTEMS
ORNL-3674 N64-28983 20-18

EFFECT OF ALLOY COMPOSITION, DEFORMATION TEMPERATURE, HEAT TREATMENT, AND INTERSTITIAL CONTAMINATION ON TWINNING TENDENCY OF NIOBIUM-VANADIUM ALLOYS
ORNL-3678 N64-29953 21-18

ULTRASONIC CLEANING PROCESSES USING RADIOISOTOPES TO CONTAMINATE TEST SPECIMENS

NASA-CR-59376 N64-33905 24-17

CONTINUITY EQUATION
SHAPE OF UPPER F-REGION - EQUILIBRIUM SOLUTIONS FOR CONTINUITY EQUATION FOR ATOMIC OXYGEN IONS IN TERMS OF EXPONENTIAL SERIES N64-13009 04-12

EQUATIONS FOR DEFORMATION OF MATERIALS WITH PLASTIC MEMORY WITH SOME SYMMETRY
C11-89 N64-18619 11-20

CONTINUOUS FLOW SYSTEM
CONTINUOUS STREAM ANALYSIS OF URANIUM SOLUTIONS OF X-RAY FLUORESCENCE - SPECTROGRAPHY
MCW-1477 N64-10431 01-07

DROPLET SEDIMENTATION IN CONTINUOUS FLOWING SYSTEM TO CONTROL ENZYME-SUBSTRATE REACTION BY DIFFUSION AND GRAVITY N64-15211 07-16

CONDUCTIVITY CELLS FOR STRONG ELECTROLYTES TO INDICATE COMPONENT CONCENTRATIONS IN CONTINUOUS PROCESS STREAMS
DP-869 N64-26879 18-06

CONTINUOUS NOISE
S IMPULSE NOISE

CONTINUOUS WAVE
ONE MILLIMETER CONTINUOUS WAVE CARCINOTRON
RADC-TR-63-551 N64-13638 05-09

RADAR DETECTION OF TARGET COORDINATES WITH BEAMED PULSES AND CONTINUOUS WAVE SIGNALS N64-15132 07-08

DISTANCE MEASUREMENTS FROM AIRCRAFT TO EARTH SURFACE BY FREQUENCY-MODULATED CONTINUOUS WAVE RADIO ALTIMETER N64-15147 07-08

TESTING OF RADAR STATIONS AND CALIBRATION OF SIGNAL TIME DELAY OF CONTINUOUS WAVE SYSTEM N64-15148 07-08

FREQUENCY MODULATED-CONTINUOUS WAVE SENSOR FOR SPACECRAFT RENDEZVOUS AND LANDING N64-16186 08-08

OPTICALLY PUMPED SOLID STATE LASER WITH CONTINUOUS WAVE POWER
SR-3 N64-16441 08-25

DOPPLER TRACKING RESULTS USING CONTINUOUS WAVE BEACON TRANSMITTER
NASA-TN-D-2188 N64-16930 09-08

OBLIQUE REFLECTION OF CW LOW FREQUENCY RADIO WAVES FROM IONOSPHERE N64-19687 12-08

NOISE SUPPRESSOR FOR REDUCING CONTINUOUS WAVE AND PULSED RADIO INTERFERENCE
RADC-TDR-64-80 N64-20030 13-08

CONTINUOUS WAVE CERENKOV MICROWAVE RADIATION GENERATED BY INTERACTION OF MODULATED FLAT RIBBON ELECTRON BEAM WITH SCALER DIELECTRIC REACTOR
RADC-TDR-64-103 N64-20032 13-25

RADIO FREQUENCY REJECTION FILTER FOR CONTINUOUS WAVE INTERFERENCE IN COMMUNICATION SYSTEMS
RADC-TDR-64-104 N64-20033 13-09

CHARACTERISTICS OF EXTREMELY LOW FREQUENCY ELECTROMAGNETIC WAVE PROPAGATION BY MEASURING CONTINUOUS WAVE SIGNALS
AFCRL-64-164 N64-20095 13-12

CONTINUOUS WAVE PROPAGATION EXPERIMENT FOR IONOSPHERIC MEASUREMENTS USING SMALL SOUNDING ROCKETS
NASA-TN-D-2323 N64-21427 14-12

TRACKING NOTCH FILTER FOR REJECTION OF CONTINUOUS WAVE INTERFERENCE N64-22826 16-09

CONTINUOUS WAVE X-BAND VOLTAGE TUNABLE OSCILLATOR
REPT.-2 N64-23602 16-09

DESIGN OF 5-MILLIMETER CONTINUOUS WAVE AMPLIFIER
AD-600945 N64-23888 16-09

X-BAND CONTINUOUS WAVE CROSSED FIELD AMPLIFIER
SFD-33-IDR-3 N64-25100 17-09

CONTINUOUS WAVE X-BAND VOLTAGE TUNABLE MAGNETRON
REPT.-3 N64-27627 19-09

OPTICALLY PUMPED SOLID STATE LASER WITH TEN WATTS OF CONTINUOUS WAVE POWER
IER-5 N64-28550 20-25

CONTINUOUS TRAVELING WAVE TUBE FOR SATELLITE COMMUNICATIONS
REPT.-3 N64-29642 21-09

COMPARISON OF CONTINUOUS WAVE RANGING SYSTEMS FOR SATELLITE TRACKING, TELEMETRY, AND COMMAND SYSTEMS
SSD-TDR-63-334, VOL. 2 N64-30530 22-01

SLOW WAVE STRUCTURE EVALUATION AND TUBE CONSTRUCTION FOR X-BAND CONTINUOUS WAVE CROSSED FIELD AMPLIFIER
SFD-33-IDR-4 N64-30668 22-09

CONTINUOUS WAVE SONIC ANEMOMETER FOR VELOCITY MEASUREMENTS N64-31849 23-15

MISSILE TRACKING BY CONTINUOUS WAVE REFLECTION - DOPPLER AND INTERFEROMETER SYSTEMS
USA-ERDA-116 N64-33466 24-01

CONTINUOUS WAVE /CW/ RADAR
APPLICATIONS AND CALIBRATION OF FREQUENCY-MODULATED AND CONTINUOUS WAVE RADAR SYSTEMS
JPRS-23120 N64-15131 07-01

RANGE EQUATION OF EQUIVALENCE OF PULSE AND CONTINUOUS WAVE SIGNAL TRANSMISSION FOR STATIONARY RADAR ANTENNA N64-15137 07-01

CIRCUITS OF RECEIVING DEVICES IN CONTINUOUS WAVE RADAR SYSTEMS N64-15140 07-01

FORMATION OF SIGNAL SPECTRA REFLECTED FROM EARTH SURFACE - RADAR SCANNING WITH CONTINUOUS WAVES N64-15145 07-01

CONTINUOUS WAVE DOPPLER RADAR STATIONS FOR DETECTION OF AUTO ACCELERATIONS N64-15149 07-01

RADIO FREQUENCY PHASE DEVIATION STABILITY REQUIREMENTS FOR BALANCED CONTINUOUS WAVE RADAR REFLECTOMETERS N64-24305 17-01

VELOCITY AND RANGE MEASUREMENTS WITH CONTINUOUS WAVE /CW/ RADARS
NASA-CR-58600 N64-28971 20-01

CONTINUOUS WAVE OPTICAL RADAR FOR EARLY LAUNCH PHASE TRAJECTORY MEASUREMENT
REPT.-75348 N64-29823 21-15

CONTINUOUS WAVE RADAR TRANSMITTER FOR SPACECRAFT TRACKING AND COMMANDING, AND RECEPTION OF TELEMETRY AND TELEVISION SIGNALS
NASA-CR-58801 N64-32997 24-01

CONTINUUM
CONTINUUM THEORY OF ORIENTED MATERIALS TO DESCRIBE NONLINEAR MECHANICAL BEHAVIOR OF SOLIDS N64-13433 05-25

CONTINUUM RADIATION FROM HIGH TEMPERATURE AIR AND NITROGEN
NASA-CR-53637 N64-19623 12-24

OBSERVATIONS OF CONTINUUM OF TWILIGHT-SKY EMISSION N64-21888 15-12

CONTINUUM EMISSION IN AIRGLOW AND AURORAE N64-21895 15-12

PHOTOMETER MEASUREMENTS OF CONTINUUM RADIATION EMITTED FROM HIGH TEMPERATURE AIR IN EQUILIBRIUM REGION BEHIND INCIDENT AND REFLECTED SHOCK WAVES
AVCO-EVERETT RES. NOTE-486 N64-32072 23-11

SPECTRAL DISTRIBUTION OF EXTRA-ATMOSPHERIC COMPONENTS OF NIGHT AIRGLOW CONTINUUM
N64-32702 24-12

BACKGROUND MEASUREMENTS DURING PHOTOELECTRIC OBSERVATIONS OF ATOMIC OXYGEN LINE EMISSION FOR STELLAR AND ATMOSPHERIC CONTINUUM COMPONENTS
N64-32703 24-12

CONTINUUM MECHANICS
SA DYNAMICS
SA FLUID MECHANICS
SA STATISTICAL MECHANICS
STANDARDIZATION OF ANALYTICAL FUNCTIONS FOR APPLICATION TO PROBLEMS OF CONTINUUM MECHANICS
ONERA-TP-55/1963/ N64-11251 02-23

MULTIPOLAR CONTINUUM MECHANICS
C11-88 N64-18625 11-23

ISOTHERMAL CONTINUUM MECHANICS THEORY - STABILITY OF HETEROGENEOUS AND HOMOGENEOUS MATERIALS
AD-429286 N64-20023 13-20

THERMODYNAMICS IN CONTINUUM MECHANICS
N64-25657 17-23

DERIVATION OF DISCONTINUITY CONDITIONS IN CONTINUUM MECHANICS FROM ENERGY EQUATIONS
AM-64-11 N64-30699 22-23

ENGINEERING AND CONTINUUM MECHANICS OF HIGH STRENGTH METALLURGIC MATERIALS
TR-7 N64-31195 22-18

DIRECTORS AND MULTIPOLAR DISPLACEMENT IN CONTINUUM MECHANICS
AM-64-9 N64-31999 23-23

MECHANICS OF MICROMORPHIC MATERIALS
TR-26 N64-32220 23-23

MULTIPOLAR CONTINUUM MECHANICS - FUNCTIONALS OF SPACE, TIME, AND MULTIPOLAR DISPLACEMENT
TR-92 N64-32536 23-23

EXTENSION OF METHODS OF CLASSICAL CONTINUUM MECHANICS - STRUCTURAL MATERIALS
C11-94 N64-33883 24-23

CONTOUR
EFFECT OF CHANGES IN BASE CONTOUR ON DAMPING IN PITCH OF BLUNTED CONE IN WIND TUNNEL
NASA-TN-D-2062 N64-10183 01-02

RECTIFICATION OF OBLIQUE AERIAL PHOTOGRAPHS TO OBTAIN CONTOURS OF BASE SURGE FORMED BY UNDERWATER NUCLEAR EXPLOSION
NOLTR-64-91 N64-29860 21-21

CONTRACTION
MUSCLE-LIKE CONTRACTIVE DEVICE MADE OF TWO PHASE MEMBRANES - MATHEMATICAL MODEL, CONTROL METHODS
RTD-TDR-63-4181 N64-17118 09-06

VELOCITY OF MUSCLE CONTRACTION IN RESPIRATORY SYSTEM AIRFLOW N64-17928 10-16

VARIATION OF LATERAL CONTRACTION RATIO OF LOW-CARBON STEEL AT ELEVATED TEMPERATURE
N64-22001 15-18

CAPACITANCE-PICKUP RECORDING METHOD FOR CONTRACTION OF SMOOTH MUSCLE
JPRS-26307 N64-28400 20-15

BIOCHEMISTRY OF CONVULSIONS OF ECLAMPSIA AND EXPERIMENTAL DUPLICATION OF ECLAMPTIC INTOXICATION
NASA-TT-F-9121 N64-33400 24-16

EVOLUTION OF O STARS - HYDROGEN EXHAUSTION AND GRAVITATIONAL CONTRACTION
NASA-RP-352 N64-33989 24-29

CONTROL
SA AIRCRAFT CONTROL
SA ATTITUDE CONTROL
SA AUTOMATIC CONTROL
SA FEEDBACK CONTROL SYSTEM
SA FLIGHT CONTROL
SA LATERAL CONTROL
SA MANUAL CONTROL
SA OPTIMAL CONTROL
SA QUALITY CONTROL
SA REMOTE CONTROL
SA SATELLITE CONTROL
SA SPACE VEHICLE CONTROL
SA SPACECRAFT CONTROL
SA TEMPERATURE CONTROL
AERODYNAMIC HINGE MOMENTS CAUSED BY EXTERNAL FLOW ON SATURN I, BLOCK I NOZZLE CONFIGURATIONS
NASA-TM-X-51071 N64-10104 01-27

REACTIVITY AND FLUX PERTURBATION ANALYSIS OF SPECTRAL SHIFT CONTROL REACTORS - PERTURBED LATTICES OF URANIUM DIOXIDE
BAW-1274 N64-10151 01-23

CONTROL OF ACOUSTICALLY INDUCED STRUCTURAL FATIGUE
EWR-73-63 N64-10159 01-33

FEASIBILITY STUDY OF BANG-BANG PATH CONTROL FOR REENTRY VEHICLES
NASA-TN-D-2049 N64-10452 01-06

STRUCTURAL METHODS IN THEORY OF CONTROL AND ELECTRIC AUTOMATION
JPRS-19084 N64-10508 01-09

SEPARATION & CONTROL CHARACTERISTICS OF HYPERSONIC FLOW - PRESSURE DISTRIBUTIONS
ASD-TDR-63-755 N64-10539 01-03

PNEUMATIC-HYDRAULIC AUTOMATION
JPRS-17469 N64-10560 01-17

IDENTIFICATION AND CONTROL OF LINEAR DYNAMIC SYSTEMS WITH UNKNOWN PARAMETERS
N64-10609 01-04

ANTENNA POINTING SYSTEM FOR SATELLITE GROUND STATION AT ANDOVER, MAINE - PENCIL BEAM FORMATION
N64-10885 02-08

DIGITAL CONTROL & DATA PROCESSING EQUIPMENT FOR ANTENNA POINTING SYSTEM USED FOR SATELLITE TRACKING N64-10886 02-08

SERVOMECHANISM FOR POINTING HORN-REFLECTOR ANTENNA
N64-10887 02-08

DEGREES OF FREEDOM, THEORIES OF STABILITY AND CONTROL, AND EQUATIONS OF MOTION FOR HELICOPTERS
N64-10899 02-04

IMPROVEMENT OF VTOL AIRCRAFT CONTROL FOR HOVERING FLIGHT
EWR-89-63 N64-10900 02-04

MEMORY AND CONTROL FUNCTIONS IN TEACHING AUTOMATIC LEARNING SYSTEMS N64-11040 02-16

SAFETY HAZARDS CONTROL - RADIOACTIVE MATERIALS, FIRE DETECTION, & EXPLOSIVE HANDLING
UCRL-7450 N64-11096 02-01

ANIMAL BEHAVIOR STUDIES WITH MULTI-ENCLOSURE, PROGRAMMED ENVIRONMENT, AND TELEMETRY SYSTEMS
N64-11258 02-16

GENERAL PURPOSE COMPUTER, SPECIAL BIOLOGICAL TYPE SYSTEM, SELF-ORGANIZATION, AND CONTROL SYSTEM SIZES AND SCOPES N64-11535 03-16

GROUND OPERATION EQUIPMENT CONTROLLING ORBITING ASTRONOMICAL OBSERVATORY
NASA-TN-D-1856 N64-11622 03-10

LINEAR AUTONOMOUS SYSTEM WITH SINGLE CONTROL VARIABLE

NASA-CR-52929 N64-11739 03-20

BIAXIAL POINTING SERVO CONTROL
AFCRL-63-703 N64-11932 03-22

PROVISION OF ADEQUATE LATERAL CONTROL POWER IN LANDING APPROACH
AGARD-419 N64-11950 03-04

COMPUTATION OF PROCESSES IN NONLINEAR PULSE WIDTH MODULATED DISCRETE CONTROL SYSTEMS
STL-TRANS-76 N64-11954 03-20

TRAJECTORIES, ORBITAL CALCULATIONS, AND ADAPTIVE GUIDANCE
NASA-TM-X-51074 N64-12102 03-22

MICROELECTRONICS FOR MINUTEMAN GUIDANCE & CONTROL
N64-12110 03-09

COMPUTER PROGRAM FOR SWITCHING CIRCUIT ANALYSIS - FUNCTIONAL ANALYSIS OF HYDRAULIC & ELECTRIC CONTROL CIRCUITS
LAMS-2986 N64-12114 03-20

PNEUMATIC CIRCUITS AND SYSTEMS FOR CONTROL, HYDRAULIC CONTROL, AND DRIVE SYSTEMS - AUTOMATION
JPRS-22570 N64-12147 03-06

INFORMATION THEORY, CONTROL PROCESSES, AND COMPUTING SYSTEMS - CYBERNETICS
JPRS-22224 N64-12451 04-01

AUTOMATION OF CONTROL PROCESSES FOR LARGE COMPLICATED SYSTEMS - CYBERNETICS
N64-12456 04-06

NOISE INFLUENCE ON STEP-TYPE EXTREMAL SYSTEMS WITH SEQUENTIAL ANALYZERS - CYBERNETICS
N64-12462 04-09

MINIMUM QUADRATIC CRITERIA FOR CONTROL SYSTEM QUALITY - CYBERNETICS N64-12464 04-20

PERFORMANCE & STABILITY OF ADCAT MISSILE INNER-LOOP CONTROL SYSTEM
RD-TR-63-30 N64-12649 04-06

INSTRUMENTS AVAILABLE FOR MEASURING MAGNETIC FIELDS IN EXTREMELY WIDE FREQUENCY RANGE
RADC-TDR-63-75 N64-12650 04-23

SAMPLED DATA CONTROL APPLIED TO ANTITANK MISSILE
RG-TR-63-21 N64-12655 04-01

TWO-WIRE SETTING SYSTEM FOR ELECTRONIC TIMERS
HDL-TR-1150 N64-12933 04-09

FAST ELECTROMAGNETICALLY OPERATED VALVE FOR ADMITTING GAS INTO EVACUATED SYSTEMS
LA-2978 N64-13022 04-17

ELECTRIC MACHINERY FOR LONGTIME ATTITUDE CONTROL OF SPACE VEHICLES
NASA-TM-X-51373 N64-13064 04-06

COMPILATION OF REPORTS ON SYSTEMS, GUIDANCE, CONTROL, ENGINEERING AND MATERIALS, FACILITIES, PROPULSION, TELECOMMUNICATIONS, AND SPACE SCIENCE
NASA-CR-53001 N64-13262 04-01

OPTIMUM-THRUST EQUATIONS FOR VARIABLE & CONSTANT THRUST TO GENERATE RENDEZVOUS TRAJECTORIES FOR EARTH-MARS FLIGHTS
NASA-CR-53030 N64-13404 04-29

PILOTAGE OF HELICOPTERS WITH REACTION CONTROL
N64-13499 05-14

ENVIRONMENTAL CONTROL DEVELOPMENT & LUNAR BASE LIFE SUPPORT SYSTEM MODULES N64-13716 05-14

GROUND PERFORMANCE OF AIRCRAFT - TIRE TREAD DESIGN FOR OPTIMUM BRAKING AND SLUSH DRAG PERFORMANCE ON WET RUNWAYS
AGARD-429 N64-13883 05-10

ANALOG DIFFERENTIATION FOR PROCESS CONTROL SYSTEMS
SUDAER-166 N64-13976 05-20

RESPONSE OF CHIMPANZEE TO SEVERE ENVIRONMENTAL STRESS
ARL-TDR-63-26 N64-14044 05-16

VTOL AIRCRAFT CONTROL & HANDLING QUALITIES
UAR-B175 N64-14141 05-04

LATERAL-DIRECTIONAL CONTROL CROSS-COUPLING EFFECTS AND HANDLING QUALITIES OF V/STOL AIRCRAFT
NRC-7778 N64-14203 06-22

CONCISE FORMULATION OF BOUNDED PHASE COORDINATE CONTROL PROBLEM IN CALCULUS OF VARIATIONS
NASA-CR-55351 N64-14289 06-20

BOILER SLUDGE COMPOSITION, REMOVAL BY GRAVITATIONAL, CENTRIFUGAL AND MAGNETIC FIELD FORCES N64-14338 06-17

SPACE VEHICLE THERMAL & ATMOSPHERIC CONTROL
AD-428573 N64-14470 06-16

APPLICATION OF PULSE SEQUENTIAL CIRCUITRY TO CONTROL DEVICES
TR-1185 N64-14499 06-09

HIGH TEMPERATURE FREQUENCY CONTROL STUDY OF DELAY LINE OSCILLATORS, TUNING FORK, AND PIEZOMAGNETIC SYSTEMS FOR ELECTRONIC CIRCUITS
ASD-TDR-63-398 N64-14502 06-09

HYDRAULIC ANTENNA POSITIONING CONTROL SYSTEM - DESIGN, ANALYSIS, AND SIMULATION
SSD-TDR-63-194 N64-14666 06-10

THEORY OF CONTROL FOR GENERALIZED DYNAMIC SYSTEMS
MH-TRANS-380 N64-14803 06-20

SPACE FLIGHT SUPPORTING PROGRAMS - GUIDANCE & CONTROL, PROPULSION, POLYMER PHYSICS, TELECOMMUNICATIONS, AND AERODYNAMICS
NASA-CR-53054 N64-14896 06-01

AIR FLOWS INTO UNCONTROLLED FIRES - FIRE STORM PREVENTION AND CONTROL
BM-3909 N64-14932 06-24

AUTOMATED INFORMATION SYSTEMS IN PLANNING, CONTROL, AND COMMAND N64-15170 07-20

SINGLE-PERTURBATION SOLUTION OF CONTROL DESIGNS FOR HIGH ORDER SYSTEMS
NASA-CR-55567 N64-15544 07-20

DRIFT-MINIMUM CONDITION IN CONTROL SYSTEMS WITH DISTURBANCE INPUTS AND INVARIANCE
NASA-CR-55344 N64-15545 07-20

FLOW PHENOMENA INVOLVED IN GASEOUS THRUST DIRECTION CONTROL DEVICES N64-15632 07-11

SIDE FORCES GENERATED BY LATERAL INJECTION OF SONIC GAS JETS AND PROBE IMMERSION INTO CONSTANT AREA SUPERSONIC DUCT FLOW - THRUST VECTOR CONTROL
N64-15633 07-11

INTERACTION EFFECTS FROM INJECTION OF LIQUID OR GASEOUS NITROGEN PERPENDICULAR TO SUPERSONIC STREAM - ROCKET-THRUST VECTOR CONTROL
NASA-CR-53063 N64-15788 07-11

STEADY-STATE CONTROL PROPERTIES OF AN ELECTRON BOMBARDMENT ION THRUSTOR
NASA-TN-D-2171 N64-15910 07-27

SEQUENTIAL DESIGN OF EXPERIMENTS WITH TWO RANDOM VARIABLES
CU-7-62-AF-1113-ERL N64-15953 07-20

ELECTRON GUN FOR PRODUCTION OF MAGNETICALLY CONFINED ELECTRON BEAM N64-16131 08-23

ADAPTIVE CONTROL OF SATURN V ASCENT TRAJECTORY TO EARTH ORBIT N64-16522 08-22

SIMULATION OF LIFT-INDUCED ACCELERATION AND TRUE SPEED ON PILOT OPINION OF LONGITUDINAL FLYING QUALITIES
ASD-TDR-63-399 N64-16647 08-10

BORON CARBIDE FOR USE WITH CONTROL ROD CLADDING MATERIAL
NAA-SR-8702 N64-16885 08-18

CONTROLLED FUSION - PROBLEMS & DEVELOPMENTS
NATT-241 N64-16936 09-24

OPTIMAL BANG-BANG CONTROL WITH QUADRATIC PERFORMANCE INDEX N64-17568 09-20

NEW CONTROL AND DATA ACQUISITION INSTRUMENTATION FOR VESTIBULAR RESEARCH IN CENTRIFUGE-SLOW ROTATION ROOM FACILITY
NASA-CR-53341 N64-17788 09-10

PNEUMATIC AUTOMATION AND JET TECHNOLOGY
JPRS-24036 N64-17841 09-06

ROCKET BOOSTER CONTROL - INITIAL CONDITION CONTROL, VECTOR CONTROL, AND LOADING DISTURBANCE CONTROL
NASA-CR-53360 N64-18120 10-27

ELECTROMAGNETIC ATTITUDE CONTROL SYSTEM FOR EARTH SATELLITES
NASA-CR-24 N64-18456 10-30

CHARACTERISTICS OF ELECTROMAGNETIC ATTITUDE CONTROL SYSTEM
NASA-CR-25 N64-18457 10-30

VERY HIGH PRESSURE HYDRAULIC CONTROL SYSTEMS - PUMPS, MOTORS, AND CONTROL VALVES
EIC-63-MECH-17 N64-18478 10-06

CHEMICAL EXTINGUISHERS FOR ROCKET PROPELLANT AND METALLIC FIRES
RTD-TDR-63-4208 N64-18570 11-26

CONFINEMENT OF GAS DISCHARGE WITH MAGNETICALLY CONTROLLED DUPLEXER
RADC-TDR-64-73 N64-19064 11-09

PULSED NUCLEAR RADIATION EFFECTS ON FREQUENCY CONTROL DEVICES
G3988-Q3-3 N64-19269 11-23

ALGORITHM FOR SYNTHESIZING ASYNCHRONOUS SEQUENTIAL SWITCHING CIRCUITS FOR LARGE DIGITAL COMPUTERS
R-169 N64-19398 12-20

VELOCITY SERVO-VOLTAGE-CONTROLLED OSCILLATOR
NASA-CR-53737 N64-19600 12-09

AIRCRAFT MODEL FLIGHT TEST TECHNIQUES FOR LOW SPEED STUDIES OF DYNAMIC STABILITY AND CONTROL
AGARDOGRAPH-76 N64-19780 12-04

FLIGHT CONTROL OF HELICOPTER USING TELEVISION AS AID FOR VISUAL CONTACT WITH GROUND
0228-421-018 N64-20178 13-10

CONTROLLING GENERAL PURPOSE VIBRATION TEST N64-20264 13-33

TRACKING SIMULATOR PERFORMANCE - EFFECTS OF ERROR MAGNIFICATION, FIELD OF VIEW, PROPRIOCEPTIVE CUES, AND CONTROL DYNAMICS
TR-20 N64-20411 13-10

TIME AS DIRECTIONAL CONTROL IN SPACE REFERENCE SYSTEM N64-20618 13-05

DESIGN, COMPATIBILITY, AND SYSTEM INTEGRATION OF REACTION CONTROL SYSTEM CONFIGURATION OF X-15A AIRCRAFT
NASA-TM-X-56002 N64-20683 13-04

EXTENSION OF CONTROL FUNCTION TO NEIGHBORHOOD OF REFERENCE TRAJECTORY TO OBTAIN FEEDBACK CONTROL N64-20963 14-29

CONTROLLABILITY FOR LINEAR AND NONLINEAR SYSTEMS
SK-0520-54 N64-20964 14-20

SECONDARY INJECTION THRUST VECTOR CONTROL - BIBLIOGRAPHY
HREC/LMSC-A033127 N64-21214 14-27

CONTROL OF LASER OUTPUT PERFORMANCE
C-920083-9 N64-21682 15-25

REACTION CONTROL SYSTEM FOR X-20 SPACECRAFT - DYNA SOAR SPACE GLIDER
REPT.-8233-933017 N64-21686 15-06

SNAP 2 POWER SYSTEM - TWO-PHASE FLIGHT PACKAGE SPEED CONTROL
ER-5908 N64-21855 15-06

PRESSURIZED SUITS FOR AIRCRAFT ENVIRONMENT CONTROL
FTD-TT-62-1424/1&3&4 N64-21920 15-14

THEORETICAL AND EXPERIMENTAL STUDIES ON REACTOR DYNAMICS AND CONTROL - NUCLEAR ENGINEERING
TID-7662 N64-22236 15-23

PROGRAM CONTROL OF METAL CUTTING MACHINES
FTD-TT-62-1759/1&2 N64-22397 15-17

OPERATING CONDITIONS OF EXTREMAL SYSTEM FOR WATER CONTROL N64-23082 16-09

TECHNIQUE FOR THRUST-VECTOR ORIENTATION DURING MANUAL CONTROL OF LUNAR LANDINGS FROM SYNCHRONOUS ORBIT
NASA-TN-D-2298 N64-23234 16-31

CONTROLLED SYSTEMS WITH NONHOLONOMIC RELATIONSHIPS N64-23553 16-06

BEHAVIOR & CONTROL OF GYROSCOPE N64-23555 16-23

SEALING BETWEEN GIMBALS FOR REDUCED TORQUE AND LEAKAGE OF LOW PRESSURE GAS - TEFLON SEALS
NASA-CR-56645 N64-24125 16-17

DYNAMIC PROGRAMMING, VARIATIONAL CALCULUS, AND ADAPTIVE & STOCHASTIC CONTROL
NASA-CR-56202 N64-24163 16-29

DIGITAL FLIGHT CONTROL SYSTEM ELECTROHYDRAULIC SERVOCONTROL VALVE
RTD-TDR-63-4240 N64-24183 16-15

HUMAN CONTROL OF WEATHER AND CLIMATE N64-24404 17-21

USE OF MAN IN BOOSTER GUIDANCE AND CONTROL
NASA-CR-81 N64-24830 17-22

EQUIPMENT CONFIGURATIONS FOR AIR TRAFFIC CONTROL TOWER CABS AT FOUR WORKLOAD LEVELS
RD-64-64 N64-25097 17-10

CONTROL DYNAMICS OF TURBOPROP ENGINE WITH NEGATIVE THRUST LIMITER N64-25437 17-27

ANTENNA DESIGN - ANTENNAS FOR TELEMETRY, COMMAND CONTROL, AND BEACON TRANSPONDER SYSTEMS
AFCRL-63-594 N64-25723 17-09

INSTRUMENTATION FOR MONITORING ENVIRONMENT WITHIN CIVIL DEFENSE SURVIVAL SHELTER
AD-600759 N64-25739 17-01

MEASURING PILOT PERFORMANCE AND CONTROL IN FLIGHT TASK SIMULATOR

IAM-TM-226 N64-25828 17-14

LATERAL INTERACTION OF JET AND FREE STREAM AT SUPERSONIC SPEEDS AND USE IN REACTION CONTROL
ADR-01-07-63.2 N64-25919 18-02

SEQUENTIAL PROGRAMMING CONTROL LANGUAGE FOR PARALLEL NETWORK COMPUTER SYSTEM
RADC-TDR-64-175 N64-26169 18-20

OPTIMAL SOLUTIONS FOR GAMES WITH BLUFFING AND HIGH SPEED CONTROL
JPRS-25221 N64-26300 18-20

FLIGHT INFORMATION SENSORS, DISPLAY SYSTEM, AND CONTROL OF X-15 AIRCRAFT FOR HIGH ALTITUDE FLYING
NASA-TN-D-2407 N64-26629 18-15

RESEARCH SIMULATOR FOR STUDYING CONTROL AND DISPLAY PROBLEMS OF V/STOL AIRCRAFT
REPT.-2120-920002 N64-26659 18-04

EFFECT OF FEEDBACK ON ADAPTIVE CHARACTERISTICS IN LIFE SCIENCES AND MAN-MACHINE INTERACTIONS
AMRL-TDR-64-39 N64-26884 18-14

DIGITAL COMPUTERS, COMPUTER COMPONENTS, PSYCHOLOGY, AND CONTROL
ESD-TDR-64-57 N64-26888 18-01

APPROXIMATE DETERMINATION OF PERIODIC MOTIONS IN SYSTEM OF AUTOMATIC PHASE CONTROL OF FREQUENCY
N64-27164 19-09

TORQUE MOTOR SIZE FOR USE ON ELECTROHYDRAULIC SERVOVALVE
NASA-CR-56670 N64-27317 19-06

NUCLEAR RADIATION EFFECTS ON CRYSTAL FREQUENCY CONTROL DEVICES
REPT.-6 N64-27855 19-23

ROLL CONTROL DEVICES EMPLOYED ON FIN-STABILIZED VEHICLES
NASA-TR-R-197 N64-28025 20-03

ABILITY OF SLENDER WING AIRCRAFT TO PERFORM SIDESTEP MANEUVER AT APPROACH SPEEDS
ARC-R&M-3359 N64-28103 20-04

AERODYNAMIC CHARACTERISTICS OF FAN-IN-WING VTOL AIRCRAFT MODEL - GROUND EFFECT WITH NOSE FAN PITCH CONTROL
NASA-TN-D-2368 N64-28323 20-04

SIMULATION AND CONTROL OF PHYSICAL AND CHEMICAL SYSTEMS
JPRS-26028 N64-28346 20-09

CONTROL THEORY AND CYBERNETICS - SYNTHESIS OF OPTIMAL LINEAR SYSTEMS AND OF LOGIC NETWORKS
JPRS-25291 N64-28440 20-20

GAMMA GUIDANCE SYSTEM FOR HELICOPTER FLIGHT-FORMATION CONTROL
NADC-EL N6301 N64-28910 20-15

CALIBRATION AND CONTROL OF AMPLITUDE VOLTAGE ANALYZERS N64-29130 21-15

DYNAMIC MODELING FOR CONTROL OF FUEL SLOSHING
N64-29264 21-33

USE OF SCALE MODEL TO CONTROL FUSELAGE RESPONSE TO ACOUSTIC EXCITATION FROM PROPELLER SLIPSTREAM
N64-29269 21-33

IMPROVING PROFICIENCY OF FIRE CONTROL TECHNICIANS BY USE OF TRAINING AIDS
NAVTRADEVCEN-1105-1 N64-29280 21-14

COMPONENTS AND CONTROLS FOR SPACE POWER UNIT REACTOR /SPUR/
APS-5090-R2 N64-29316 21-06

DEEP SPACE NETWORK - PRECISION CONTROL AND COMMUNICATION SYSTEM FOR SPACECRAFT
NASA-CR-58556 N64-29356 21-08

SPACE FLIGHT AND ADAPTIVE GUIDANCE
NASA-TM-X-51924 N64-29515 21-29

COMPACT ELECTRICAL-MECHANICAL DEVICE FOR CONTROL OF OXYGEN-NITROGEN CONCENTRATION OF ATMOSPHERE WITHIN SPACE CABIN SIMULATOR
AMRL-TDR-64-25 N64-29838 21-06

MATHEMATICAL TECHNIQUES FOR INVENTORY CONTROL
AROD-968-35 N64-29907 21-10

MECHANICAL, CONSTRUCTION, AND CONTROL ENGINEERING
ESD-TDR-64-337 N64-30029 21-10

ADAPTIVE-PREDICTIVE MODELING OF NONLINEAR PROCESSES
NASA-CR-86 N64-30046 21-09

OPTIMUM THRUST-CONTROL REGIMES FOR ROCKETS CONSIDERING EARTH MOTION
FTD-TT-64-615/1&3&4 N64-30109 21-27

CONTROL BY MODULUS OF ARITHMETIC OPERATIONS
N64-30217 22-20

COMPUTER PROGRAMMING - CONTROL THEORY - DIGITAL STRUCTURE AND INFORMATION STORAGE AND RETRIEVAL
JPRS-26013 N64-30413 22-20

EVALUATION OF ANALOG DISPLAY FOR HELICOPTER FLIGHT MANEUVERS
D228-421-017 N64-30578 22-10

OPTIMAL RENDEZVOUS STRATEGIES FOR COOPERATIVE CONTROLLED SYSTEMS
R-218 N64-30626 22-09

EFFECTIVENESS OF THREE EXIT VANE CASCADE CONFIGURATIONS FOR THRUST VECTORING
NASA-TN-D-1688 N64-31080 22-03

WIRE WOUND POTENTIOMETER FAILURES IN FIRE CONTROL COMPUTER - CAUSES AND PERFORMANCE STANDARDS
N64-31506 23-15

CONTROLLED NUCLEAR FUSION FOR SPACE PROPULSION
N64-31614 23-27

GYRO MOTION EQUATIONS COMPARED TO ACTUAL DATA IN PERFORMANCE EVALUATION OF GIMBALLED AIRBORNE ELECTROSTATIC GYROSCOPE
HONEYWELL AERO-61811-TR5 N64-31683 23-20

CONSTANT LINEAR DYNAMICAL SYSTEMS WITH BANG-BANG CONTROLLER - COMPUTER SIMULATION OF ATTITUDE CONTROL FOR SPINNING SPACE VEHICLE
NASA-TR-R-200 N64-31732 23-09

DIRECTION FINDING NEAR LIGHTNING DISCHARGE - NAVIGATIONAL AID N64-31760 23-21

ATMOSPHERICS AND INSTABILITY IN TROPOSPHERE - RADIO COMMUNICATION AND DIRECTION FINDING
N64-31761 23-21

CONTROL PROBLEMS AND APPLICATIONS OF THERMONUCLEAR REACTIONS
FTD-MT-64-230 N64-31775 23-23

MOTION IN PROPORTIONAL CONTROL SYSTEM
N64-31855 23-15

MODIFICATION AND COMPARISON OF SEQUENTIAL TEST OF FIT - EXPECTED SAMPLE SIZE UNDER ALTERNATIVES TO NULL HYPOTHESIS
MRC-486 N64-31959 23-20

SELF-ADAPTIVE CONTROL TECHNIQUES APPLICATION TO FLEXIBLE SUPERSONIC TRANSPORT
CAL-IH-1696-F-3 N64-32323 23-06

FAILURE OF QUARTZ FREQUENCY CONTROL CRYSTALS
QPR-2 N64-32556 23-25

PERFORMANCE OF GROUND RECEIVING SYSTEM FROM AUTOMATIC PICTURE TRANSMISSIONS FROM TIROS VIII SATELLITE
TR-2460 N64-32613 23-15

ELECTROMAGNETIC POSITION SENSOR - APPLICATION TO

PROBE-BOOM STEERING PROBLEM ASSOCIATED WITH HYPERSONIC AIRCRAFT REFUELING
LJ-1262-0210A N64-32938 24-15

LOGICAL DESIGN OF SPECIAL PURPOSE ONBOARD DIGITAL COMPUTER FOR OPTIMUM THRUST CONTROL
NASA-CR-59077 N64-32989 24-27

DATA CONTROL SYSTEM FOR SCIENTIFIC INFORMATION CENTER
NASA-TM-X-54765 N64-33203 24-10

EFFECTS OF PULSED NUCLEAR RADIATION ON FREQUENCY CONTROL DEVICES
G3988-Q7-7 N64-33571 24-09

THRUST VECTOR CONTROL OF SATELLITES IN NEAR EARTH ORBIT
APL-TDR-64-17 N64-33712 24-27

CONTROL AREA
ESTIMATION OF OSCILLATING WING AND CONTROL AREA DERIVATIVES
ARC-CP-623 N64-25175 17-03

CONTROL DEVICE
THEORETICAL AND EXPERIMENTAL VALUES OF AERODYNAMIC FORCES ACTING ON WINGS AND CONTROLS IN OSCILLATION AT LOW MACH NUMBERS
ARC-CP-681 N64-10054 01-03

STABILITY OF SPACE VEHICLE IN BENDING OSCILLATIONS FOR CONTROL SENSORS
NASA-TM-X-51081 N64-10106 01-30

EFFECT OF INSERTION POINT ON PERFORMANCE OF FUSELAGE-MOUNTED, PULSE-DURATION-MODULATED, ATTITUDE CONTROL DEVICE N64-10171 01-04

STATISTICAL THEORY OF SELF-ADJUSTING SYSTEMS - GRADE OF QUALITY CONTROL DETERMINATION
JPRS-17820 N64-10488 01-06

IDENTIFICATION AND CONTROL OF LINEAR DYNAMIC SYSTEMS WITH UNKNOWN PARAMETERS
N64-10609 01-04

CLASSIFICATION OF AUTOMATION SYSTEMS BY CONTROL PRINCIPLES - CONTROL BY DEVIATION & PERTURBATIONS
JPRS-18307 N64-10755 02-06

CONTROL AND REGULATION, ALGORITHMIC DESCRIPTION, AUTOMATED REPAIR, AND AUTOMATION - CYBERNETICS
JPRS-18569 N64-10778 02-01

TWO-DIMENSIONAL ABSOLUTE DIGITAL DATA PATH CONTROL SYSTEM
NASA-CR-52686 N64-11105 02-20

SELF-ORGANIZING SYSTEMS AND PRINCIPLES OF THEIR DESIGN - OPEN CONTROL BY PERTURBATIONS AND FEEDBACK ACCORDING TO OUTPUT CHARACTERISTICS
N64-11530 03-09

SYNTHESIS OF CONTROL EQUIPMENT FOR DIGITAL COMPUTERS - CYBERNETICS N64-12453 04-20

AMPLITUDE-FREQUENCY TRANSFER FUNCTION OF RELAY CONTROL MECHANISM WITH INDEPENDENTLY DRIVEN MOTOR - CYBERNETICS N64-12468 04-06

AUTOMATIC MEASUREMENT AND CONTROL DEVICES FOR INDUSTRIAL USE, AND COMPUTER SPECIFICATIONS
FTD-TT-63-763/1&2 N64-12622 04-06

AUTOMATIC PROGRAMMING, CONTROLLING, AND RECORDING MACHINE FOR DATA ACQUISITION & CONTROL SYSTEM APPLICATION
SC-4944/RR/ N64-13233 04-20

GUIDANCE & CONTROL CELESTIAL SENSOR DEVELOPMENT
NASA-CR-53005 N64-13288 04-22

CONTROL SYSTEM FOR 2.6-METER TELESCOPE
N64-13679 05-06

CONTROL SYSTEM OF RM-700 TELESCOPE
N64-13681 05-06

ANALYSIS & DESIGN OF STABILIZED PLATFORM ALIGNMENT LOOP FOR PERSHING GUIDANCE & CONTROL SYSTEM
RG-TR-63-26 N64-13808 05-22

HYPERSONIC WIND TUNNEL PRESSURE CONTROL SYSTEM
SUDAER-168 N64-13977 05-10

REAL-TIME COMPUTER PROGRAM FOR CDC 160-A COMPUTER TO CONTROL TELEMETRY ANTENNA
REPT.-62G-3 N64-14015 05-08

MULTIPLE COMPONENT REGULATION TRANSFORMED INTO SINGLE COMPONENT CONTROL FOR ROCKET BOOSTERS
NASA-CR-55345 N64-14156 05-22

ULTRASONICS IN CHEMICAL REACTIONS, ULTRASONIC TRANSDUCER PRODUCTION, AND CONTROL BY ULTRASONICS
FTD-MT-63-106/1&364 N64-14385 06-23

APPLICATION OF PULSE SEQUENTIAL CIRCUITRY TO CONTROL DEVICES
TR-1185 N64-14499 06-09

WIND-TUNNEL TESTS & CONTROL SYSTEM BEARING TESTS FOR XC-142 TRANSPORT AIRCRAFT
SAR-3 N64-14615 06-04

SIMPLIFIED PROPORTIONAL-STEP SYSTEM OF EXTREMAL CONTROL
FTD-TT-62-1884/1&2&4 N64-16406 08-06

STABILITY IN NONLINEAR CONTROL SYSTEMS WITH ONE OR TWO REGULATORS
FTD-TT-63-399/1&2 N64-16419 08-06

ROTATIONAL SPEED CONTROL FOR SNAP 2 POWER CONVERSION
ER-5075 N64-17220 09-06

MICRO-OPERATION SEQUENCES IN MICROPROGRAM BY SINGLE AUTOMATIC CONTROL DEVICE - DIGITAL COMPUTER
JPRS-23816 N64-17349 09-20

MATHEMATICAL MODEL OF CONTINUOUS CONTROL SYSTEMS
JPRS-23864 N64-17712 09-20

SAMPLED DATA CONTROL SYSTEM COMBINED WITH CONVENTIONAL & CONTINUOUS CONTROL SYSTEM FOR INCREASED COMPUTER RELIABILITY N64-17786 09-17

DYNAMIC CORROSION AND CHEMICAL CONTROL TEST LOOP FOR NUCLEAR REACTOR
IDO-16812 N64-17840 09-07

ATTITUDE & VELOCITY CONTROL SYSTEM FOR NASA VECTOR RESEARCH VEHICLE
NASA-CR-53368 N64-18100 10-27

TECHNIQUES FOR IMPROVING METHODS OF EXERCISING AND EVALUATING COMMAND AND CONTROL SYSTEMS - MATHEMATICAL MODELS
ESD-TDR-64-195 N64-18374 10-06

DISCRETE OPTIMAL CONTROL SYSTEMS FOR SYSTEMS DESCRIBED BY NONLINEAR DIFFERENCE EQUATIONS
NASA-CR-53583 N64-18430 10-20

CONTROL SYSTEM USING SOLAR FLUX AS FORCE TO CHANGE ORBITAL PARAMETERS OF PASSIVE COMMUNICATIONS SATELLITE
NASA-CR-53578 N64-18440 10-30

MULTILOOP VEHICULAR CONTROL SYSTEM ANALYSIS TECHNIQUE - VEHICLE TRANSFER STABILITY AND CONTROL
ASD-TDR-62-1014 N64-18933 11-06

MATHEMATICAL MODEL OF CONTROL SYSTEM TO OPTIMIZE AUTOMOBILE BRAKING N64-19045 11-23

PULSED NUCLEAR RADIATION EFFECTS ON FREQUENCY CONTROL DEVICES
G3988-Q3-3 N64-19269 11-23

COMPARISON OF GAS CHROMATOGRAPH TESTS & COMPUTER SOLUTIONS OF MATHEMATICAL MODEL FOR STATIC VAPOR PRESSURE CONTROL SYSTEM
NASA-CR-53816 N64-19612 12-06

CONTROL OF THERMONUCLEAR REACTIONS

FTD-TT-63-915/1&2&4 N64-19749 12-24

MATHEMATICAL MODEL OF CONTINUOUS CONTROL SYSTEM - MODEL OF EXCITABLE MEDIUM N64-19784 12-20

SEALANTS & ADHESIVES FOR BEARING INSTALLATION IN STEEL AND ALUMINUM HOUSING BORES OF FLIGHT CONTROL SYSTEM
FGT-3082 N64-20044 13-19

ADAPTIVE AND SELF-OPTIMIZING CONTROL SYSTEMS
AD-429297 N64-20279 13-06

OPTIMIZING FOR MINIMUM STEP RESPONSE TIME IN LINEAR SYSTEM WITH LIMITED CONTROL EFFORT
RES. PAPER-45 N64-20314 13-09

FLUID POWER CONTROL DEVICES - ACCELEROMETER, PNEUMATIC SERVOSYSTEMS, COMPRESSIBLE DAMPERS, AND GAS BEARINGS AND VALVES
RTD-TDR-63-4252 N64-20385 13-15

FUNCTIONS AND TRANSFER CHARACTERISTICS OF CONTROL SYSTEMS WITH NONLINEAR ELEMENTS
SAAB-TN-51 N64-20436 13-20

PROBABILISTIC INFORMATION PROCESSING IN COMMAND AND CONTROL SYSTEMS
ESD-TDR-62-345 N64-21092 14-20

LINEAR FLIGHT CONTROL SYSTEMS USING OPTIMAL CONTROL THEORY
CAL-IH-1648-F-1 N64-21106 14-04

INCREASED EFFECTIVENESS OF LIMITED SYSTEMS BY CONTROL THEORY - APPLICATION TO BIOMEDICINE
RM-3956-PR N64-21161 14-20

STRATEGIC AIR COMMAND DATA PROCESSING AND CONTROL SYSTEM TEST PLAN
ESD-TDR-64-197 N64-21216 14-10

PILOT PERFORMANCE DURING AIRCRAFT BLIND LANDINGS USING CLOSED CIRCUIT TELEVISION DISPLAY AS CONTROL DEVICE
NASA-TN-D-2252 N64-21267 14-08

REACTION CONTROL SYSTEM FOR X-20 SPACECRAFT - DYNA SOAR SPACE GLIDER
REPT.-8233-933017 N64-21686 15-06

PRINCIPLES FOR BUILDING COMBINATION AUTOMATIC CONTROL SYSTEM WITH VARIABLE STRUCTURE
JPRS-24767 N64-21827 15-09

HUMAN FACTORS & CONTROL SYSTEM
FTD-TT-63-331/1&2 N64-21945 15-14

ROCKET BOOSTER - CONTROL SYSTEM AND CONTROL VARIABLES
NASA-CR-49 N64-22016 15-20

LAUNCH CONTROL EQUIPMENT FOR X-20 AIRCRAFT
D2-81073 N64-22260 15-31

ANALYTICAL TECHNIQUES IN ANALYZING RADIATION EFFECTS TO FLIGHT CONTROL SYSTEMS
IBM-63-521-21 N64-22308 15-09

LOW-THRUST COLD-GAS MASS EXPULSION SYSTEMS, HORIZON SCANNER, & DIGITAL LOGIC CONTROLLER COMPONENTS FOR SATELLITE ATTITUDE CONTROL
SSD-TDR-64-86 N64-22324 15-06

TITAN III ICBM INTEGRATED ELECTRONIC CHECKOUT AND LAUNCH CONTROL SYSTEM
SSD-TDR-64-35 N64-22378 15-10

SERVOMECHANISM FOR CONTROL OF KNIFE EDGE IN SCHLIEREN PHOTOGRAPHY SYSTEM
AEDC-TDR-64-126 N64-22607 15-10

CONTROL SYSTEM WITH DOUBLING ACTUATING ELEMENT
JPRS-25232 N64-22743 16-06

AUTOMATION AND CONTROL SYSTEMS
FTD-TT-62-1521/1&2 N64-23080 16-17

SYNTHESIZING BLOCK DIAGRAM FOR SELF-ADJUSTING CONTROL SYSTEMS FOR TURBOJET ENGINES WITH AFTERBURNERS
FTD-TT-62-1655/1&2&4 N64-23287 16-06

MECHANIZATION AND AUTOMATION OF MACHINE TOOL CONTROL
FTD-TT-62-1246/1&2 N64-23403 16-20

SYMMETRICAL ONE-FREQUENCY FORCED OSCILLATION IN NONLINEAR AUTOMATIC CONTROL SYSTEM
N64-23484 16-06

CONSTRUCTING SELF-ADJUSTING SYSTEM
N64-23485 16-06

PERTURBATION OF SELF-ADAPTIVE CONTROL SYSTEM
N64-23486 16-06

OPTIMAL CHARACTERISTICS OF CONTROL SYSTEMS WITH MODULATION N64-23800 16-09

STABILITY OF SYSTEMS OF EXTREMAL REGULATION WITH CONSTANT SEARCH SPEED N64-23802 16-09

CONTROL CHARACTERISTICS OF VORTEX VALVES & BASIC OPERATING MECHANISM OF FLOW FIELD
N64-23813 16-11

PURE FLUID HYDROFOIL CONTROL SYSTEM
N64-23828 16-11

BATTERY CHARGE CONTROL USING SEMICONDUCTOR DEVICES
AD-435833 N64-23916 16-09

THEORY OF OPTIMAL LINEAR CONTROL SYSTEM
USCEE-105 N64-24080 16-06

CAPABILITY OF LATERAL CONTROL SYSTEM TO PROVIDE AERODYNAMIC HEADING-ANGLE CONTROL OF VEHICLE HAVING MAXIMUM LIFT-DRAG RATIO DURING REENTRY
NASA-TN-D-2343 N64-24588 17-05

EXTREMAL CONTROL OF CONTINUOUS MULTIPARAMETER SYSTEMS BY RANDOM SEARCH METHOD
N64-24698 17-20

CONTROL SYSTEM LAGS AND MAN-MACHINE SYSTEM PERFORMANCE - BIBLIOGRAPHY
NASA-CR-83 N64-25172 17-16

INTEGRATION OF NONLINEAR UNIDIRECTIONAL DEVICES AS ANTENNA CONTROL ELEMENTS
IER-1 N64-25325 17-01

STABILIZATION OF AUTOMATIC CONTROL SYSTEM WITH VARIABLE STRUCTURE
FTD-TT-63-1110/1&2&4 N64-25456 17-09

MATHEMATICAL MODEL OF CONTROL SYSTEM CONTAINING DERIVATIVES OF CONTROL VARIABLES
NASA-CR-56831 N64-25569 17-20

PERFORMANCE LOSSES IN ADAPTIVE CONTROL SYSTEMS
REPT.-63-23 N64-25593 17-06

CONTROL SYSTEM FOR MULTIPLATE ANTENNA
AFCRL-64-255 N64-25597 17-09

FABRICATION OF MICROELECTRONICS FOR TIME AND FREQUENCY CONTROL SYSTEMS - VERY LOW FREQUENCY AND LOW FREQUENCY SYNTHESIZER
MDE-3572 N64-26089 18-09

TIME-OPTIMAL CONTROL SYSTEMS AND AUTOMATIC OPTIMIZATION OF CONTROL CIRCUITS
FTD-TT-63-409/1&2 N64-26724 18-09

ANALOG STUDY OF ROTATING-SOLID-ROCKET CONTROL SYSTEM AND ITS APPLICATION TO ATTITUDE CONTROL OF SPACE-VEHICLE UPPER STAGES
NASA-TN-D-2366 N64-26759 18-06

NONLINEAR CONTROL SYSTEM FOR DIRECTION-CONTROLLED ANTITANK MISSILES
RG-TR-64-2 N64-26828 18-06

AUTOMATIC DATA HANDLING SYSTEM ANALYSIS TECHNIQUE FOR DESIGN AND CONTROL OF DATA SYSTEMS - AUTOSATE
AD-430136 N64-26867 18-20

FLUID POWER CONTROL DEVICES FOR AEROSPACE SYSTEMS
REPT.-8998-7 N64-26886 18-06

GENERAL THEORY ON MULTIVARIABLE ERROR-FREE RIPPLE FREE SAMPLED-DATA CONTROL SYSTEM
NASA-CR-56780 N64-27836 19-09

ROLL CONTROL DEVICES EMPLOYED ON FIN-STABILIZED VEHICLES
NASA-TR-R-197 N64-28025 20-03

EXAMINATION AND TESTING OF ELECTRIC CONDUCTOR CONTROL CABLE
REPT.-391111 N64-28122 20-17

CONTROL OF MISSILE TRAJECTORIES WITH SPIN STABILIZATION AND AUTOMATIC ATTITUDE CONTROL
AGARD-392 N64-28657 20-30

AUTOMATIC INSTRUMENTS AND SYSTEMS WITH STEP-BY-STEP CONTROL SYSTEMS N64-29140 21-15

TWO-CONTACT PARALLELOGRAM INSTRUMENT FOR ACTIVE CONTROL OF DIAMETERS OF CYLINDERS BEING TURNED ON LATHES N64-29147 21-15

NETWORK SYNTHESIS FOR STABILIZING GYRO ACCELEROMETER CONTROL LOOP
NASA-CR-58694 N64-29213 21-09

OPTIMUM CONTROL FACTORS FOR SINGLE-LOOP LINEAR CIRCUIT - DIGITAL COMPUTATION OF VARIANCE AND AVERAGE VALUES OF NONLINEAR CONTROL SYSTEMS
FTD-TT-63-387/1&2 N64-29322 21-09

HIGH SPEED DIGITAL COMPUTATION OF NONSTATIONARY RANDOM PROCESS TRANSFER THROUGH NONLINEAR CONTROL SYSTEMS WITH VARIABLE PARAMETERS N64-29324 21-09

TIME-OPTIMAL CONTROL SYSTEM SYNTHESIS
NASA-CR-56798 N64-29361 21-06

SUBDIVIDING COMPLEX RADIO EQUIPMENT INTO CONTROLLABLE BLOCKS TO PROMOTE RELIABILITY N64-29457 21-09

CYBERNETICS - CONTROL SYSTEMS, INFORMATION THEORY, AND GAME THEORY
JPRS-26341 N64-29733 21-20

CONTROL SYSTEM DESCRIBED BY ALGEBRAIC LOGIC - COMPLEXITY OF BLIND AND MINIMAL DISJUNCTIVE NORMAL FORMS N64-29734 21-20

CONTROL SYSTEM SYNTHESIS USING ALGEBRAIC LOGIC - FUNCTIONAL ELEMENTS, LOGIC CIRCUITS, & SHANNON FUNCTION N64-29735 21-09

COMPACT ELECTRICAL-MECHANICAL DEVICE FOR CONTROL OF OXYGEN-NITROGEN CONCENTRATION OF ATMOSPHERE WITHIN SPACE CABIN SIMULATOR
AMRL-TDR-64-25 N64-29838 21-06

BODY FLAPS, SPOILERS, & COLD GAS REACTION JETS FOR CONTROL IN HYPERSONIC FLIGHT
OR-3719 N64-30761 22-02

OPTIMAL MULTIPLICATIVE CONTROL SYSTEM
PIBMRI-1210-64 N64-30865 22-09

ANALYTICAL FUNCTION FOR GIMBAL ANGLES OF ROLL STABLE PLATFORM
NOL-TM-75-45 N64-30885 22-15

MOTION STABILIZATION OF CONTROLLED MEMBER IN CONTROL SYSTEM WITH TIME DELAY
NASA-TT-F-9122 N64-31566 23-23

MOTION IN PROPORTIONAL CONTROL SYSTEM N64-31855 23-15

PURE FLUID SYSTEMS, COMPONENTS, AND CONTROL DEVICES - BIRD HAZARD TO AIRCRAFT - CURRENT PROJECTS IN MECHANICS, HYDRODYNAMICS, AERODYNAMICS AND THERMODYNAMICS
DNE/NAE-1964 /2/ N64-32015 23-10

SIMULATION MODELS FOR AEROSPACE COMMAND AND CONTROL
ESD-TDR-63-659, VOL. II N64-33969 24-10

CONTROL SIMULATOR
S COMPUTER
S FLIGHT SIMULATOR

CONTROL SURFACE
SA AILERON
SA FIN
SA FLAP
SA RUDDER
SA SPOILER
SA STABILIZER
EMITTANCE MEASUREMENT TECHNIQUES AND REQUIRED PROPERTIES FOR SPACECRAFT THERMAL CONTROL SURFACES N64-10943 02-13

APPARATUS FOR MEASURING EMITTANCE AND ABSORPTIVITY OF SATELLITE TEMPERATURE CONTROL SURFACES N64-10944 02-13

DEVICE FOR MEASURING TOTAL HEMISPHERICAL EMITTANCE OF MATERIALS FOR ORBITING ASTRONOMICAL OBSERVATORY SATELLITE THERMAL CONTROL SURFACE N64-10950 02-15

AIRCRAFT ENGINE FLUTTER FAILURE DUE TO INSTABILITY OF CONTROL SURFACE MASS DISTRIBUTIONS N64-13559 05-33

CONTROL SURFACES IN SUPERSONIC JETS - NOZZLE SHAPE, EXTERNAL PRESSURE, & CONTROL SURFACE GEOMETRY
RAE-TRANS-1049 N64-19295 11-03

CALORIMETRIC TEMPERATURE MEASUREMENT OF HEMISPHERICAL THERMAL EMISSION OF SPACECRAFT TEMPERATURE CONTROL SURFACES AT ROOM TEMPERATURE
NASA-CR-56037 N64-20604 13-13

PLANFORM MODIFICATION EFFECTS ON SKIN FRICTION DRAG OF AIRCRAFT WING AND CONTROL SURFACES
NASA-RP-170 N64-21274 14-03

CONTROL SURFACE INTERACTION EFFECTS ON DELTA WING WINDWARD PRESSURES AT HYPERSONIC SPEEDS AND HIGH ANGLES OF ATTACK
NASA-TN-D-2332 N64-23028 16-03

CONTROL SURFACE OSCILLATIONS - ROTATION OF FLAP ABOUT HINGE
ARC-R&M-3364 N64-25203 17-04

CONVAIR MILITARY AIRCRAFT
S F-111 AIRCRAFT

CONVECTION
SA CONVECTIVE FLOW
SA CONVECTIVE HEAT TRANSFER
STRUCTURE OF F-LAYER & REASONS FOR CONVECTION IN EARTHS CORE - JEFFRIES EFFECT & GUTENBERG EFFECT
JPRS-20183 N64-10662 01-28

CONVECTIVE AND NONCONVECTIVE ZONES OF PREFRONTAL PRECIPITATION - VERTICAL MOTION, MOISTURE, AND CLOUD STRUCTURE
AFCRL-63-717 N64-11102 02-21

STABILITY OF FREE CONVECTION BOUNDARY LAYER FLOW INVESTIGATED BY INTEGRATION OF DISTURBANCE DIFFERENTIAL EQUATIONS
NASA-TN-D-2089 N64-11905 03-11

RADIOACTIVE FALLOUT IN CONVECTIVE STORMS
HNS-24 N64-11963 03-21

CONVECTION IN LOW INTENSITY GRAVITATIONAL FIELDS, AND SIMULATION WITH SIMILAR DENSITY LIQUIDS N64-15212 07-16

WALL TEMPERATURES IN TUBE OF HEAT EXCHANGER WITH FORCED CONVECTION
NASA-TN-D-2116 N64-16929 09-13

THERMAL CONVECTION OF THIN FLUID LAYERS
NASA-TM-X-51241 N64-17613 09-13

TIROS I PHOTOGRAPHY OF CELLULAR CLOUD PATTERN RELATED TO CONVENTIONAL METEOROLOGICAL ANALYSES, PHYSICAL NATURE OF CELLULAR CONVECTION
N64-17915 10-21

APPLICABILITY OF DUAL-FREQUENCY WEATHER RADAR SYSTEM TO STUDY OF CONVECTIVE LIQUID PRECIPITATION
SCI. REPT.-63-22T N64-19012 11-21

PRESSURE OSCILLATIONS INDUCED BY FORCED CONVECTION HEAT TRANSFER TO TWO-PHASE AND SUPERCRITICAL HYDROGEN
LAMS-3070 N64-21055 14-13

EFFECT OF CORIOLIS FORCES ON ONSET OF THERMAL CONVECTION IN SHALLOW LAYER OF VISCOUS LIQUID
REPT.-562/07//54 N64-22519 15-13

SPECTRUM OF THERMAL CONVECTION OF BAROCLINIC FLUID IN ROTATING ANNULUS N64-24683 17-13

ULTRASONIC CONVECTIVE COOLING
RADC-TDR-64-179 N64-25238 17-13

FORCED-CONVECTION BOILING POTASSIUM HEAT TRANSFER AND PRESSURE DROP
PWAC-429 N64-26060 18-13

FREE CONVECTION OF LOW PRANDTL NUMBER FLUID IN CONTACT WITH UNIFORMLY HEATED VERTICAL PLATE
ANL-6835 N64-26771 18-11

WIND TUNNEL STUDIES OF ANTENNA BREAKDOWN - FORCED CONVECTION EFFECT
MIT-AL-TR-92 N64-26922 18-08

SECULAR PERTURBATION OF GRAVITY FIELD BY CONVECTION CURRENTS IN EARTH OUTER CORE
N64-30467 22-12

CONVECTION IN VISCOELASTIC PLASTIC MODEL OF EARTH CRUST AND MANTLE
MD-64-14/1/ N64-30983 22-12

MEASUREMENT OF HEAT TRANSFER COEFFICIENTS BY FORCED CONVECTION
REPT.-148 N64-31437 23-13

WALL TEMPERATURE DISTRIBUTION FOR LAMINAR FORCED CONVECTION IN RECTANGULAR CHANNELS WITH UNEQUAL HEATING ON ADJACENT SIDES
NASA-RP-316 N64-31444 23-13

SHAPE AND INTERNAL STRUCTURE OF MOON - LUNAR PARAMETERS AND DENSITY DISTRIBUTION - RIGID AND THERMAL CONVECTION MODELS
RM-3964-PR N64-31972 23-29

CONVECTIVE FLOW
CONVECTION VELOCITIES OF TURBULENT FLUCTUATIONS IN SHEAR FLOW
NPL-AERO-1050 N64-10018 01-11

DIRECT-INTERACTION APPROXIMATION FOR TURBULENCE EXTENDED TO SHEAR FLOWS AND BOUSSINESQ CONVECTION CONTAINED IN REGIONS OF ARBITRARY SIZE AND SHAPE
RR-2 N64-14706 06-11

CONVECTION VELOCITIES IN TURBULENT SHEAR FLOWS
AGARD-457 N64-18723 11-11

METEOROLOGY - DETERMINATION OF SPEEDS OF VERTICAL AIR CURRENTS IN CONVECTIVE CLOUDS WITH HELP OF WEATHER RADAR
SCI. REPT.-63-31T N64-19014 11-21

STEADY VORTEX FLOWS DRIVEN BY RADIAL CONVECTION OF ANGULAR MOMENTUM
ATN-64/9227/-4 N64-19246 11-11

MAGNETOHYDRODYNAMIC PROBLEMS IN CONVECTIVE FLOW OF VISCOUS CONDUCTIVE LIQUID IN VERTICLE CHANNELS
N64-23480 16-24

ONSET OF CONVECTIVE MOTIONS IN RAPIDLY ROTATING FLUID SPHERE
TR-57 N64-25242 17-11

CONVECTIVE STORMS - CLOUD PHYSICS, DYNAMICS, AND RELATED CLOUD MODIFICATION
MRI63-IR-87 N64-31197 22-21

COPPER TRANSMITTING ELEMENTS OF ELECTRONIC THERMOMETERS FOR MEASURING CONVECTIVE MOTION OF CUMULUS CLOUDS
E-T-R-64-14 N64-31681 23-21

CONVECTIVE STORM MOTION CORRELATION WITH UPPER WINDS FOR CASES OF SMALL CHANGE OF WIND DIRECTION WITH HEIGHT
REPT.-21 N64-32935 24-21

CONVECTIVE HEAT TRANSFER
CONVECTIVE HEATING IN NITROGEN AND CARBON DIOXIDE PLANETARY ATMOSPHERES
RAD-TM-63-72 N64-10315 01-13

SOLUTION OF THERMAL CONVECTION EQUATIONS FOR THIN LAYER OF FLUID
NASA-RP-66 N64-10358 01-13

UNIVERSAL LAW FOR CONVECTIVE HEAT TRANSFER IN TURBULENT BOUNDARY LAYER OF COMPRESSED GAS
N64-11142 02-13

SELECTED ARTICLES ON PLASMA PHYSICS, THERMAL IONIZATION, ELECTRIC EXPLOSIONS, & CONVECTIVE HEAT TRANSFER
FTD-TT-62-1778/1&2 N64-11711 03-01

INFLUENCE OF DIFFUSION OF RADIATING IMPURITIES ON CONVECTIVE HEAT EXCHANGE FOR AXISYMMETRIC BLUNT-NOSED BODY N64-11715 03-13

RADIATIVE & CONVECTIVE HEATING OF SHAPES ENTERING ASSUMED ATMOSPHERES OF MARS & VENUS AT SUPERORBITAL SPEEDS
NASA-TN-D-2064 N64-11903 03-13

CONVECTIVE HEAT EXCHANGE BETWEEN GAS-TURBINE DISK AND SCREEN - GENERALIZED STEADY-STATE PROCESS STUDY N64-11966 03-29

INFLUENCE OF VIBRATION OF SPHERE ON CONVECTIVE HEAT & MASS EXCHANGE IN TURBULENT FLOW
N64-11968 03-13

CONVECTIVE HEAT TRANSFER RATE TO SHOCK TUBE END WALL FROM MONATOMIC GAS HEATED BY REFLECTED SHOCK - IONIZATION EFFECTS
BSD-TDR-63-47 N64-12253 03-11

COOLING SYSTEMS - GRAVITATIONAL EFFECTS & HEAT TRANSFER BY FREE OR NATURAL CONVECTION IN FLUIDS NEAR CRITICAL STATE
AD-426252 N64-13605 05-17

CONVECTIVE HEAT TRANSFER FROM TURBULENT BOUNDARY LAYER IN COOLED CONVERGENT-DIVERGENT CONICAL NOZZLE
NASA-CR-55317 N64-13936 05-13

AIR, NITROGEN, AND HYDROGEN GAS-SIDE CONVECTIVE HEAT TRANSFER TO NUCLEAR ROCKET NOZZLES USING SHOCK TUBE TECHNIQUES
NASA-CR-55712 N64-15893 07-13

CONVECTIVE HEAT TRANSFER DATA FROM FREE FLIGHT IN WIND TUNNELS N64-17017 09-13

INCREASED EFFECTIVENESS OF GASES AS NATURAL CONVECTIVE HEAT TRANSFER MEDIA BY MOLECULAR DISSOCIATION - COOLANT RESEARCH
TP-83 N64-17434 09-13

THERMAL CONVECTION OF THIN FLUID LAYERS
NASA-TM-X-51241 N64-17613 09-13

CONVECTIVE ENERGY TRANSFER BETWEEN PARALLEL PLATES OF PARTIALLY IONIZED MONATOMIC HYDROGEN AT DIFFERENT TEMPERATURES
ATN-64/9232/-1 N64-17896 10-24

CONVECTIVE HEAT TRANSFER COEFFICIENTS IN RAREFIED GAS
FTD-TT-62-978/1&4 N64-19179 11-13

HIGH SPEED THERMAL RADIATION AND CONVECTIVE HEAT

TRANSFER FOR SPACECRAFT REENTRY AND ENTRY STUDIES
NASA-CR-53665 N64-19609 12-13

PLASMA PHYSICS, RADIATIVE AND CONVECTIVE HEAT TRANSFER IN PLANETARY ATMOSPHERES, STELLAR STRUCTURE, AND GALACTIC DYNAMICS
NASA-CR-53869 N64-19954 12-05

RADIATIVE AND CONVECTIVE HEAT TRANSFER EFFECTS ON TEMPERATURE VARIATION IN MARTIAN ATMOSPHERE
GCA-TR-62-7-N N64-22076 15-29

DYNAMIC PROPERTIES OF VARIOUS BODIES DURING HEAT EXCHANGE BY CONVECTION, CONDUCTION, AND RADIATION
N64-24552 17-15

RADIATIVE AND FORCED CONVECTIVE HEAT TRANSFER TO FLOWING GAS WITH CARBON PARTICLES
NASA-RP-227 N64-24988 17-13

ULTRASONIC CONVECTIVE COOLING
RADC-TDR-64-179 N64-25238 17-13

TRANSIENT TEMPERATURE CALCULATION FOR MULTILAYER SLAB WITH TIME DEPENDENT CONVECTION HEATING
TN-R-97 N64-25551 17-13

CONVECTIVE HEAT TRANSFER IN PLANETARY ATMOSPHERE
NASA-CR-56972 N64-25775 17-29

CONVECTIVE HEAT TRANSFER IN THIN RECTANGULAR CHANNEL FLOW AS FOUND IN NUCLEAR REACTOR FUEL ASSEMBLIES
NASA-TN-D-2411 N64-26778 18-13

HEAT TRANSFER MEASUREMENTS, CONVECTIVE HEAT TRANSFER, SHOCK FRONT STUDIES, RADIATION IN NITROGEN-CARBON DIOXIDE MIXTURES, AND MAGNETOHYDRODYNAMICS
NASA-CR-58050 N64-27300 19-24

LAMINAR CONVECTIVE HEAT TRANSFER AND BOUNDARY LAYER EQUATIONS FOR CONES AT ESCAPE VELOCITY
NASA-TN-D-2463 N64-27807 19-11

FLOW OF CONVECTED HEAT ON DELTA WINGS WITH LARGE CAMBER ANGLES N64-30671 22-11

CONVECTIVE HEAT TRANSFER AND FLOW FRICTION CHARACTERISTICS OF SKEWED PASSAGE AND GLASS-CERAMIC COMPACT HEAT EXCHANGER SURFACES FOR GAS TURBINE REGENERATOR DESIGN
TR-59 N64-30919 22-13

TRANSFORMATION OF EULERIAN FORM OF NAVIER STOKES EQUATION INTO LINEAR LAGRANGIAN MODEL OF TURBULENT HEAT CONDUCTION AND CONVECTION
GEOPHYS. SCI. LAB. REPT.-63-8 N64-31242 22-13

SUPERCAVITATING HYDROFOILS - CASCADE FLOW, CONVECTIVE HEAT TRANSFER, WALL EFFECTS, AND PRESSURE DISTRIBUTION N64-31429 23-11

MEASUREMENT OF HEAT TRANSFER COEFFICIENTS BY FORCED CONVECTION
REPT.-148 N64-31437 23-13

PRANDTL NUMBER EFFECT ON NATURAL CONVECTION HEAT TRANSFER OF SMALL PARTICLES
REPT.-150 N64-31439 23-13

CONVECTIVE INSTABILITY OF HORIZONTAL FLUID LAYER WITH CONSTANT TEMPERATURE GRADIENTS AND DIFFUSIVE SUBSTANCE CONCENTRATION AT BOUNDARIES
MD-63-6 N64-31841 23-11

LOW DENSITY EFFECTS ON CONVECTIVE HEAT TRANSFER IN HYPERSONIC FLIGHT
REPT.-615045 N64-33838 24-13

CONVERGENCE
FOURIER TRANSFORM OF EXPONENTIAL FUNCTION FOR CASES OF ASYMPTOTIC AND CONVERGENT SERIES
LAMS-2975 N64-10188 01-20

CONVERGENCE OF COORDINATE EXPANSIONS OF UNDISTURBED ELLIPTICAL AND HYPERBOLIC MOTIONS
MH-TRANS-422 N64-11568 03-20

COMPARISON OF REGULAR PERTURBATION THEORY AND FEENBERG FORMULATION WITH ACCOUNT OF CONVERGENCE RADIUS
DI-82-0316 N64-13152 04-23

CONVERGENCE IN EXPANSION OF FUNCTION OF NEWTONIAN ATTRACTION OF TWO BODIES N64-16195 08-20

CONTINUED FRACTION THEORY APPLIED TO FUNCTION EXPANSION AND EFFECT OF REMAINDERS ON CONVERGENCE
MRC-423 N64-16623 08-20

WEAK CONVERGENCE IN CERTAIN SPECIAL BANACH SPACES
MRC-443 N64-17625 09-20

TIROS I CLOUD PHOTOGRAPHS OF SUBTROPICAL CONVERGENCE BAND COMPLEMENTS SURFACE METEOROLOGICAL DATA ON QUASI-STATIONARY FRONT
N64-17913 10-21

CONVERGENCE FACTOR OF ASYMPTOTIC METHOD FOR EXPONENTIAL INTEGRALS
DTMB-1535 N64-25691 17-20

CONVERGENCE RATES OF ITERATIVE METHODS FOR NUMERICAL SOLUTION OF ELLIPTIC DIFFERENCE EQUATIONS
TR-28 N64-27546 19-20

CONVERGENCE OF PICARD SUCCESSIVE APPROXIMATION SCHEMES BY TWO-POINT BOUNDARY VALUE NONLINEAR DIFFERENTIAL EQUATIONS
RM-4079-PR N64-31072 22-20

CONVERGENCE OF GALERKIN METHOD FOR TAYLOR-DEAN FLOW STABILITY AND VISCOUS FLUID PROBLEMS
RPI-63 N64-33023 24-11

CONVERGENCE OF GALERKIN METHOD FOR TAYLOR-DEAN FLOW STABILITY PROBLEMS N64-33024 24-11

CONVERGENCE OF GENERALIZED GALERKIN METHOD FOR FLUID STABILITY PROBLEMS N64-33025 24-11

CONVERGENT-DIVERGENT NOZZLE
ROCKET PERFORMANCE FOR ISENTROPIC PROCESS OF CHEMICALLY FROZEN HYDROGEN THROUGH CONVERGING-DIVERGING NOZZLE
NASA-TN-D-2080 N64-11904 03-27

CONVECTIVE HEAT TRANSFER FROM TURBULENT BOUNDARY LAYER IN COOLED CONVERGENT-DIVERGENT CONICAL NOZZLE
NASA-CR-55317 N64-13936 05-13

AERODYNAMIC COMPRESSION OF GAS STREAMS IN CONVERGENT AND CONVERGENT-DIVERGENT NOZZLES
FTD-TT-62-1555/1&2&4 N64-19250 11-11

FLOW SEPARATION IN OVEREXPANDED, CONICAL, CONVERGENT-DIVERGENT NOZZLES N64-28987 20-02

CONVERSION
SA ENERGY CONVERSION
SA ISOMERIZATION
SA POWER CONVERSION
DIGITAL CODE CONVERTERS AND CIRCUIT CONSTRUCTION FOR CONVERSION BETWEEN DECIMAL, BINARY-DECIMAL, NUMBER-PULSE, BINARY, AND GRAYS BINARY CODES
N64-11532 03-20

CONVERTING URINE AND WASH WATER INTO DRINKABLE FORM BY MODEL INTEGRATED WATER RECOVERY SYSTEM
AMRL-TDR-63-88 N64-12217 03-06

CONVERSION OF THREE-PHASE POWER TO SINGLE-PHASE POWER - ELECTRICITY N64-17433 09-06

TRITIUM, HYDROGEN, AND NITROGEN CONVERSION
NASA-CR-53424 N64-18121 10-12

TRAVELING WAVE TUBE IN REENTRANT MODE FOR FREQUENCY CONVERSION & AMPLIFICATION SERRODYNE SYSTEM
NASA-TN-D-2149 N64-22669 15-08

SIGNAL CONVERSION DURING SIMULATION OF DYNAMIC PROPERTIES OF GAS TURBINE ENGINES
N64-23597 16-04

CATALYST DEVELOPMENT FOR LOW TEMPERATURE PARA-ORTHO CONVERSION REACTION OF HYDROGEN
APL-TDR-64-48 N64-27459 19-07

CONVERSION OF FIREFLY PROJECT RADAR DATA - WAVE SCATTERING FROM IONIZED ARTIFICIAL CLOUDS
N64-31382 23-12

CONVERTER
SA ANALOG-TO-DIGITAL CONVERTER
SA FREQUENCY CONVERTER
SA IMAGE CONVERTER
SA THERMIONIC CONVERTER
SA TRANSFORMER
HIGH EFFICIENCY DC TO DC CONVERTER WITH 59 WATTS OUTPUT
NASA-CR-52708 N64-11076 02-06

FABRICATION OF HIGH TEMPERATURE SOLAR THERMIONIC CONVERTERS
TRW-ER-5632 N64-12380 03-06

ELECTRONIC PROPERTIES OF LEAD AND TIN TELLURIDES FOR THERMOELECTRIC CONVERTERS
AFCRL-63-633 N64-12660 04-25

PORTABLE THERMOPHOTOVOLTAIC CONVERTER FOR TERRESTRIAL APPLICATION - GERMANIUM PHOTOVOLTAIC CELL AND SILICON CELL FABRICATION & TESTING
TR63-228 N64-13076 04-09

CESIUM AND SOLAR ENERGY THERMIONIC CONVERTERS AND GENERATORS N64-14204 06-01

PROGRAM DEVELOPMENT OF SOLAR ENERGY THERMIONIC CONVERTERS AND GENERATORS N64-14214 06-06

THIN-FILM, LARGE AREA, PHOTOVOLTAIC SOLAR ENERGY CONVERTERS
NASA-CR-55298 N64-14849 06-06

OPTIMIZATION OF THIN FILM GALLIUM ARSENIDE JUNCTIONS OF PHOTOVOLTAIC BARRIERS IN SOLAR ENERGY CONVERTERS
NASA-CR-55741 N64-15877 07-06

PARALLEL INVERTER AND CONVERTER OPERATION AND IMPROVEMENTS IN TRANSFORMERS
NASA-CR-53206 N64-17205 09-06

UNSYMMETRICAL CONVERTER CIRCUIT FOR SWITCHING THERMIONIC DIODE BETWEEN CONDUCTING AND NON-CONDUCTING STATES N64-17429 09-06

GERMANIUM AND GALLIUM ARSENIDE TUNNEL DIODE CONVERTERS N64-17430 09-06

LOW NOISE TUNNEL DIODE MIXERS AND CONVERTERS
RADC-TDR-63-561 N64-18015 10-09

PERFORMANCE AND RELIABILITY OF CAPACITORS FOR STATIC INVERTERS AND CONVERTERS
NASA-CR-54020 N64-18161 10-09

ELECTRONICALLY TUNABLE CONVERTERS IN MILLIMETER WAVE RANGE
NASA-CR-53585 N64-18438 10-09

OPTIMIZATION OF THERMODYNAMIC PROPERTIES AND WORKING CONDITIONS OF ENERGY TURBOCONVERTER
N64-18485 10-06

BINARY TO VIDEO DATA CONVERTER
RADC-TDR-63-427 N64-18565 11-09

CADMIUM-TELLURIUM MATERIAL FOR SOLAR ENERGY CONVERTERS - PHOTOVOLTAIC CELL RESEARCH
N64-19837 12-06

MAGNETORESISTANCE AND HALL EFFECT IN CONTROLLED RECTIFIER DEVICES USED FOR LOW VOLTAGE HIGH CURRENT CONVERTER
NASA-CR-56131 N64-20702 13-06

THIN FILM LARGE AREA PHOTOVOLTAIC SOLAR ENERGY CONVERTER
NASA-CR-54065 N64-20741 13-06

IMPROVEMENT OF PARALLEL STATIC INVERTERS AND CONVERTERS USING ANNEALING SILICON-STEEL
NASA-CR-54074 N64-22192 15-06

CIRCUIT ANALYSIS OF REGULATION CONTROL LOOP AND SERIES REGULATOR IN DC-DC CONVERTER
NASA-CR-56467 N64-23938 16-09

SELF BALANCING PULSE WIDTH VOLTAGE CONVERTER
N64-24510 17-09

SILICON DIODES IN MULTIPLYING UNIT CIRCUITS WITH QUADRATIC FUNCTIONAL CONVERTERS AND WITHOUT REFERENCE N64-24542 17-09

VOLTAGE NUMBER CODE CONVERTER FOR DIRECT AND ALTERNATING CURRENT CONTROL SYSTEMS
N64-24543 17-09

CRYSTAL FREQUENCY CONVERTER UNITS FOR L-, S-, C-, AND X-BANDS
IDR-9 N64-24808 17-08

CAPACITORS FOR STATIC INVERTERS AND CONVERTERS
NASA-CR-54075 N64-25803 17-09

SEMICONDUCTOR DIODE PARAMETRIC AMPLIFIERS AND CONVERTERS
NRL-6024 N64-25979 18-09

ELECTRON BEAM PARAMETRIC CONVERTER
AL-TDR-64-64 N64-26065 18-09

MECHANICALLY TUNABLE TUNNEL-DIODE CONVERTER
EDL-M666 N64-26315 18-09

CONVERTER TO TEST TELEVISION INTERMEDIATE FREQUENCY SOUND AMPLIFIER
BI-031 N64-26564 18-09

FREQUENCY CONVERTER UNITS FOR L-BAND, S-BAND, C-BAND, AND X-BAND
REPT.-11 N64-27413 19-09

SIMPLIFICATION OF LOW INPUT VOLTAGE CONVERTER REGULATOR CIRCUIT, IMPROVING CIRCUIT PERFORMANCE, AND PROVIDING OVERLOAD PROTECTION
NASA-CR-56450 N64-27875 20-06

LOW VOLTAGE DIRECT CURRENT CONVERTER AND REGULATOR
NASA-CR-56451 N64-27876 20-06

REGULATED CONVERTER FOR DIRECT CURRENT LOW VOLTAGE TO HIGH VOLTAGE CONVERSION USING GERMANIUM POWER TRANSISTOR SWITCHING ELEMENTS
NASA-CR-56883 N64-27892 20-06

AUXILIARY POWER GENERATING SYSTEM FOR LARGE SPACE LABORATORY - SOLAR DYNAMIC SYSTEMS, SOLAR CELLS AND BATTERIES, AND SYSTEM FOR NUCLEAR AUXILIARY POWER-8 /SNAP-8/
AIAA PAPER-64-719 N64-28373 20-06

DIRECT CURRENT TO DIRECT CURRENT CONVERTER
NASA-CR-58243 N64-28933 20-09

MULTICHANNEL SEMICONDUCTOR VOLTAGE-TO-CODE CONVERTER WITH DIGIT-BY-DIGIT CODING
N64-29139 21-15

OPTIMIZATION OF HIGH POWER STATIC INVERTERS AND CONVERTERS
NASA-CR-54122 N64-29360 21-06

ELECTRON BEAM CONVERTERS FOR RESOLVING FUNCTIONS OF TWO VARIABLES INTO FUNCTIONS OF SINGLE VARIABLE N64-29455 21-09

TRANSISTORIZED CONVERTER FOR SYNCHRONIZATION OF INDUCTION MOTORS
LFEN.13 /ALPHA, ZETA/ N64-29886 21-09

LOW POWER, HIGH EFFICIENCY DIRECT CURRENT-DIRECT CURRENT CONVERTERS FOR SATELLITE AND ROCKET ENVIRONMENTAL CONDITIONS
AFCRL-64-558 N64-31403 23-09

DATA CONVERTER SYSTEM TO DECODE DOUBLE-SPEED SYNCHRO INFORMATION INTO DECIMAL READOUT

N64-31495 23-09

METHODICAL ERRORS IN DIFFERENTIAL STRING CONVERTER OF ENERGY INTO FREQUENCY N64-31864 23-23

CHEMICALLY SPRAYED THIN FILM PHOTOVOLTAIC CONVERTERS - SOLAR CELL N64-32731 24-06

LOW INPUT VOLTAGE CONVERTER
REPT.-1 N64-33691 24-09

CONVOLUTION THEORY
FOURIER CONVOLUTION THEOREM APPLIED TO INTEGRALS FOR TWO-ELECTRON SYSTEM ABOUT ONE OR TWO BODIES
NASA-CR-52462 N64-10443 01-23

THRESHOLD DECODING OF CONVOLUTIONAL CODES UP TO 100 TRANSMITTED BITS
MIT-TR-410 N64-14111 05-20

EXCEPTIONAL INTEGRAL EQUATIONS OF CONVOLUTION THEORY
FTD-TT-63-181/1&2&4 N64-16359 08-20

CONVOLUTION MOLECULE METHOD - APPLICATION TO CRYSTAL STRUCTURE ANALYSIS
USAELRDL-TR-2436 N64-26223 18-25

COOLANT
PHYSICAL AND NUCLEAR PROPERTIES OF GASEOUS, LIQUID, METAL, AND LIQUID METAL COOLANTS
FTD-TT-61-478 N64-11587 03-23

ECONOMIC STUDY OF CATALYTIC HYDROCRACKING PROCESS APPLIED TO ORGANIC REACTOR COOLANT
IDO-11400 N64-13368 04-07

RADIOLYTIC DAMAGE TO ORGANIC COOLANTS
IDO-16911 N64-13899 05-19

TRANSIENT REACTOR COOLANTS FOR RETAINING FISSION PRODUCTS - MELTING URANIUM IN SODIUM AND TERPHENYL ENVIRONMENTS
NAA-SR-9163 N64-15401 07-23

CATALYTIC HYDROCRACKING OF POLYPHENYLS FOR RECOVERY OF ORGANIC NUCLEAR REACTOR COOLANT
MRB-6003TI N64-16553 08-07

INCREASED EFFECTIVENESS OF GASES AS NATURAL CONVECTIVE HEAT TRANSFER MEDIA BY MOLECULAR DISSOCIATION - COOLANT RESEARCH
TP-83 N64-17434 09-13

THERMAL CONDUCTIVITY OF POLYPHENYLS USED AS REACTOR COOLANTS
EUR-582.D N64-19006 11-13

PETROLEUM BASED ORGANIC COOLANTS FOR NUCLEAR REACTORS
EUR-496.F N64-20872 14-19

HIGH TEMPERATURE ENVIRONMENT FOR HYDRAULIC FLUIDS, ELECTRONIC COOLANTS, FUELS, AND LUBRICANTS
N64-28180 20-26

LITHIUM AS LIQUID METAL COOLANT FOR SOLID PROPELLANT ROCKET NOZZLE
A-P-FR-5601, VOL.2 N64-30632 22-13

ORGANIC REACTOR COOLANTS
BNL-7650 N64-32161 23-13

VAPOR CYCLE COOLANT REQUIREMENTS FOR NUCLEAR POWER PLANTS IN INTERPLANETARY SPACE TRAVEL
ANL-6857 N64-32853 24-06

COOLING
SA ABLATION
ELECTRON PARAMAGNETIC RESONANCE IN SOLID SUPER-COOLED SOLUTION OF FREE RADICALS
N64-10855 02-25

MORPHOLOGICAL CHANGES IN ANTERIOR LOBE OF PITUITARY GLAND, THYMUS, & ADRENAL GLAND UNDER IRRADIATION AND COOLING
JPRS-20037 N64-11320 02-16

PHYSICAL AND NUCLEAR PROPERTIES OF GASEOUS, LIQUID, METAL, AND LIQUID METAL COOLANTS
FTD-TT-61-478 N64-11587 03-23

ROLES OF SURFACE MICROCONFIGURATION, CONTACT ANGLE, AND HISTORY IN VOID FORMATION IN SUBCOOLED WATER SYSTEMS - NUCLEATION PROCESS
REPT.-9041-26 N64-13236 04-13

COOLING SOLID PROPELLANT MOTOR NOZZLE WITH LIQUID LITHIUM
RT-TR-63-13 N64-15065 07-27

COOLING OF HIGH TEMPERATURE, RADIAL-FLOW TURBINES
K-518 N64-16508 08-13

LIQUID COOLING FOR RECIRCULATION SYSTEM OF OPEN CYCLE FUEL CELL
NASA-CR-55966 N64-17687 09-06

FREE FLIGHT INVESTIGATION OF MASS TRANSFER COOLING IN LAMINAR BOUNDARY LAYER AROUND BLUNT CONE AT HYPERSONIC SPEEDS
NASA-TN-D-2197 N64-17746 09-13

INFLUENCE OF ALLOYING ELEMENTS ON CONTINUOUS COOLING TRANSFORMATION BEHAVIOR AND WELDABILITY OF BINARY & TERNARY IRON ALLOYS
C59/12/63 N64-17800 09-18

INITIATION OF SURFACE COOLING DUE TO BUBBLE GROWTH ON HEATING SURFACE
NASA-TN-D-2290 N64-19724 12-13

REDUCTION OF BOUNDARY LAYER THICKNESS IN LOW DENSITY NOZZLES BY WALL SUCTION AND COOLING
NASA-TM-X-53008 N64-20728 13-02

FABRICATION OF THERMOELECTRIC COOLERS IN SIZES COMPARABLE TO SOLID STATE NETWORK CIRCUIT BLOCKS
REPT.-20-74300-20 N64-21450 14-06

OPTIMAL DESIGN FOR SUPERCOOLED CLOUD DISPERSAL EQUIPMENT AND TECHNIQUES
TO-B-64-32 N64-21712 15-21

USE OF ANALOGS TO DETERMINE TURBINE BLADE COOLING
FTD-TT-63-1104/1&2 N64-21942 15-03

PRODUCTION OF LIQUID OXYGEN USING AVERAGE PRESSURE SYSTEM AND NITROGEN COOLING
FTD-TT-63-113/1&2&4 N64-22190 15-26

TECHNIQUE FOR APPLYING LUBRICANT-COOLING FLUIDS IN CUTTING METALS
FTD-TT-63-105/1&2 N64-22342 15-17

THERMOELECTRIC SEMICONDUCTOR COOLING AND HEATING DEVICES
FTD-TT-63-692 N64-22655 15-25

APPROXIMATE SOLUTION TO TWO-DIMENSIONAL STATIONARY HEAT CONDUCTION PROBLEM AND DETERMINING EFFECT OF ARTIFICIAL COOLING ON TURBINE COMPONENTS
N64-23488 16-13

ULTRASONIC CONVECTIVE COOLING
RADC-TDR-64-179 N64-25238 17-13

ANALYSIS OF SELF-COOLING OF ROCKET NOZZLES
R-5323 N64-25384 17-03

EVAPORATIVE COOLING AND FREEZING OF LIQUIDS IN VACUUM
NASA-RP-249 N64-26589 18-13

ADVANCEMENT OF SELF-COOLED ROCKET NOZZLE CONCEPT
R-3853-5 N64-26680 18-27

FILM PROTECTED CONVECTIVELY COOLED NOZZLES
U-2621 N64-26977 19-02

GAS TURBINE COOLING FOR IMPROVED ENGINE PERFORMANCE
NASA-TM-X-51765 N64-28918 20-13

COOLING THRUST CHAMBER OF LIQUID PROPELLANT ROCKET ENGINE USING PYROLYTIC GRAPHITE AND HYDROCARBON FILM
NASA-CR-58249 N64-29196 21-27

SUPERCOOLING OF HYDRAZINE IN THIN-WALLED CAPILLARIES AND AS DROPLETS SUSPENDED IN SILICONE OIL
NRL-6130 N64-29960 21-13

COOLING RATE EFFECT ON HARDNESS OF ZIRCONIUM-NIOBIUM ALLOYS
CRRM-1200 N64-30905 22-18

LIGHTWEIGHT METAL FOIL HEAT EXCHANGERS FOR HYDROGEN PRECOOLING IN AEROSPACE VEHICLES
ITR-5 N64-31268 22-13

INTERNAL AIR-FILM COOLING OF MACH 2.4 AXISYMMETRIC SUPERSONIC NOZZLE
NOLTR-64-65 N64-31672 23-13

FILM COOLING, NOZZLE EXPANSION, COMBUSTION INSTABILITY, AND ABLATIVE COOLING IN ROCKET THRUST CHAMBERS
REPT.-212/SA3-2.2-M-3 N64-32173 23-17

FLUID FLOW MODIFIED BY THERMOELECTRIC COOLING OF LIQUIDS, ELECTRICAL DECONTAMINATION, PRESSURE SURGE SUPPRESSION, AND PUMPING
ASD-TDR-63-776, VOL. I N64-32570 23-11

EFFECT OF ADJACENT COOLING ON GALVANIC SKIN RESPONSE AND SKIN RESISTANCE OF ISOTHERMAL AREA
SAM-TDR-63-70 N64-32602 23-16

INSTABILITY EFFECT ON TWO-PHASE HEAT TRANSFER FOR SUBCOOLED WATER FLOWING IN ZERO GRAVITY ENVIRONMENT
NASA-TN-D-2259 N64-33083 24-13

SHELTER COOLING - NUCLEAR RADIATION EFFECTS, MAINTENANCE, HEAT SINK, REFRIGERATION, AND DEHUMIDIFICATION
AD-446445 N64-33111 24-13

THERMOELECTRIC AND THERMOMAGNETIC COOLING AND MATERIAL DEVELOPMENT FOR SPACECRAFT APPLICATION
NASA-CR-59203 N64-33176 24-25

NOZZLE BLADE COOLING AND AXIAL COMPRESSORS
FTD-MT-63-203 N64-33701 24-13

COOLING SYSTEM
SA VENTILATION
FLIGHT-TYPE COOLANT PUMP FOR NUCLEAR AIRCRAFT POWERPLANT IN LITHIUM COOLED REACTOR EXPERIMENT
PWAC-384 N64-11244 02-17

OPTIMIZATION OF ACTIVELY COOLED HEAT SHIELD SYSTEM WITH EQUAL WEIGHT OF WATER & INSULATION
REPT. 00.256 N64-11344 02-13

MODIFIED CHROMIUM-MOLYBDENUM ALLOY STEELS FOR SODIUM COOLING SYSTEMS
NAA-SR-7544 N64-11955 03-18

SOLIDIFICATION OF LIQUID HYDROGEN AND NEON FOR CRYOGENIC-SOLID COOLING SYSTEM
REPT.-0694-01-3 N64-12999 04-26

GROUND COOLING AIR-CONDITIONER FOR SATURN BOOSTER AND TOP INSTRUMENT COMPARTMENTS
NASA-CR-55218 N64-13001 04-06

PARTIALLY COOLED THRUST CHAMBER FOR VARIABLE THRUST OPERATION
PA-TR-3119 N64-13246 04-17

COOLING SYSTEMS - GRAVITATIONAL EFFECTS & HEAT TRANSFER BY FREE OR NATURAL CONVECTION IN FLUIDS NEAR CRITICAL STATE
AD-426252 N64-13605 05-17

PROBLEMS OF PROVIDING ATMOSPHERE FOR SPACE CABIN - AIR CONDITIONING SYSTEMS
FTD-TT-62-1545/1 N64-15590 07-16

LIQUID HELIUM REFRIGERATION SYSTEM FOR MASER COOLING SYSTEM
NASA-CR-56168 N64-20740 13-04

ANNOTATED BIBLIOGRAPHY ON MATERIALS FOR REENTRY CONDITIONS AND RELATED COOLING SYSTEMS
RR-TR-64-1 N64-21495 15-20

APPLICATION OF LIQUID NITROGEN TO COMMERCIAL REFRIGERATION USES N64-26017 18-13

CRYOGENIC EQUIPMENT DEVELOPMENT FOR SPACE - LONG TERM STORAGE OF LIQUID PROPELLANTS AND ELECTRONIC EQUIPMENT REFRIGERATION N64-26018 18-13

BINARY COUETTE FLOW WITH HYDROGEN INJECTED INTO CARBON DIOXIDE AND NITROGEN STREAMS FOR REENTRY COOLING SYSTEM
NASA-CR-58497 N64-29200 21-11

LIQUID LITHIUM FOR COOLING SOLID PROPELLANT ROCKET NOZZLES
A-P-FR-5601 N64-29752 21-13

THERMAL TEST MODEL AND REFRIGERATION SYSTEM FOR SUPERCONDUCTING ROTATING ELECTRIC GENERATOR
REPT.-428 N64-31709 23-06

ROCKET NOZZLE MATERIALS PROBLEM - REFRACTORY MATERIAL, PROTECTIVE COATINGS, AND COOLING SYSTEM
AMRA-MS-63-06 N64-32692 24-17

MATERIALS AND COOLANT SYSTEMS FOR SOLID PROPELLANT ROCKET NOZZLES N64-32695 24-13

COORDINATE
S GEOCENTRIC COORDINATE

COORDINATE SYSTEM
SA INERTIAL COORDINATE SYSTEM
SA QUATERNION
CONNECTION OF GEOMETRIC COORDINATES WITH TIME INCREMENTS IN NAVIGATIONAL THEORY
JPRS-22089 N64-11321 02-22

REDUCED ACCELERATIONS IN TANGENTIAL COORDINATES
MH-TRANS-424 N64-11570 03-20

COORDINATE SYSTEM FOR SURFACE REPRESENTATION OF TOPOGRAPHY OF EARTH SURFACE - CLIMATOLOGY N64-11605 03-21

VARIATIONAL PROBLEMS ON OPTIMAL CONTROL PROCESSES IN BOUNDED COORDINATE SYSTEM
MH-TRANS-385 N64-14545 06-20

TRANSFORMATION OF PLANETARY COORDINATES N64-18227 10-29

MATRIX TRANSFORMED FROM COORDINATE SYSTEM N64-18228 10-29

COORDINATE SYSTEM AND DATA FORMAT FOR ANTENNA PATTERN
IRIG-102-61 N64-22527 15-08

ECLIPTIC AND HORIZONTAL COORDINATES OF EARTH MOTION IN LUNAR SKY
NASA-TT-F-8812 N64-23039 16-12

VERTICAL SETTLING OF BOUNDARY OF HALF SPACE IN CAST OF PLANAR DEFORMATION - COORDINATE SYSTEM
RSIC-9 N64-24191 16-23

GRAPHICAL & MECHANICAL METHOD FOR CONSTRUCTION & RECONSTRUCTION OF AXONOMETRIC DRAWING IN RECTANGULAR COORDINATE SYSTEM N64-24522 17-15

ANGLE COORDINATES AND ACTION MOMENTS FOR PLANAR RESTRICTED PROBLEM OF THREE BODIES IN NEIGHBORHOOD OF TRIANGULAR EQUILIBRIUM
D1-82-0335 N64-24595 17-23

COORDINATES OF ROTATING FLUID WAVE MOTIONS WITH FIXED ISOTHERMAL SURFACES N64-24681 17-13

EXPRESSION IN SPHERICAL COORDINATES FOR POTENTIAL OF MAGNETIC DIPOLE HAVING MAGNETIC MOMENT IN ANY DIRECTION
NASA-TT-F-8668 N64-24970 17-05

COVARIANCE & ROLE OF COORDINATES IN DERIVATION OF MOTION EQUATIONS IN RELATIVITY
NASA-CR-56829 N64-25568 17-23

ALGORITHM FOR POSITION AND VELOCITY COORDINATES OF ZONAL HARMONIC PERTURBATIONS OF ACCURATE REFERENCE ORBIT USING VINTI THEORY
NASA-TM-X-55021 N64-27255 19-23

MOTION EQUATIONS OF AXISYMMETRIC ROCKET IN CYLINDRICAL COORDINATE SYSTEM N64-30422 22-02

QUATERNIONS USED IN RERESENTATION OF ANGULAR COORDINATES
NASA-TT-F-9101 N64-31331 22-20

MAGNETIZING FORCE COMPONENTS OF EARTH CONSTANT MAGNETIC FIELD IN ORBITAL COORDINATE SYSTEM
N64-31532 23-12

COORDINATE TRANSFORMATION
SA SCHWARZSCHILD METRIC
CONVERGENCE OF COORDINATE EXPANSIONS OF UNDISTURBED ELLIPTICAL AND HYPERBOLIC MOTIONS
NH-TRANS-422 N64-11568 03-20

PRINCIPLE OF EQUIVALENCE - COORDINATE TRANSFORMATION OF ROTATING BODY
AD-427264 N64-14109 05-23

HELIOMETRIC OBSERVATIONS OF COORDINATES OF LUNAR CENTER OF MASS
NH-TRANS-430 N64-14546 06-05

COMPUTER PROGRAM FOR TRANSFORMATION OF COORDINATES FROM GEODETIC SURVEYING N64-16208 08-20

INTERPOLATION AND COORDINATE TRANSFORMATION PROGRAM PROVIDING ACCURATE LOCAL ANTENNA POINTING FROM PREDICTABLE SATELLITE POSITIONS
NASA-TN-D-2140 N64-21424 14-08

MATHEMATICAL TABLE OF TRIGONOMETRIC FUNCTIONS DESIGNED FOR DESK CALCULATOR TRANSFORMATION OF ARTIFICIAL EARTH SATELLITE COORDINATES
N64-21836 15-20

EQUATIONS FOR CONVERTING TO GEOCENTRIC COORDINATES FROM GEODETIC COORDINATES
TG-511 N64-31173 22-12

COORDINATE TRANSFORMATIONS OF PLANE RESTRICTED THREE-BODY PROBLEM - CONFORMAL MAPPING
NASA-CR-59065 N64-32487 23-23

COPOLYMER
VISCOELASTIC PROPERTIES OF STYRENE-ACENAPHTHYLENE COPOLYMERS IN TRANSITION REGION
ONR-TR-RLT-66 N64-12817 04-23

VISCOELASTIC PROPERTIES OF ALKYL DISULFIDE COPOLYMERS
ONR-TR-RLT-67 N64-14681 06-19

TENSILE STRENGTH AND RELAXATION TIME OF STYRENE COPOLYMERS
PIBAL-687 N64-20331 13-07

SYNTHESIS AND THERMAL STABILITY OF COORDINATION POLYMERS
RSIC-179 N64-21458 14-07

GRAFT COPOLYMER OF POLYSTYRENE AND CELLULOSE ACETATE
ARCD-3630-6 N64-21467 14-07

COORDINATION CHAIN POLYMER OF QUINIZARIN & BIS-ACETOACETYL-PHENYL ETHER
RSIC-168 N64-21577 15-07

LAWS OF POLYCOORDINATION AND NEW COORDINATION POLYMERS
RSIC-184 N64-21914 15-07

INFLUENCE OF DISTRIBUTION OF COMPOSITION ON LIGHT SCATTERING OF STYRENE-ACRYLONITRILE COPOLYMER
REPT.-381 N64-24958 17-23

EFFECTS OF COMPOSITION AND IRRADIATION ON GLASS TRANSITION TEMPERATURE OF METHYL METHACRYLATE-STYRENE COPOLYMERS N64-28290 20-19

EFFECT OF TWO-STAGE DEFORMATION MECHANISM ON VARIANCE IN PROPERTIES OF ETHYLENE-PROPYLENE COPOLYMER SERIES
ONR-TR-70 N64-30171 21-19

COPPER
MAGNETICALLY ROTATED ELECTRIC ARC AIR HEATER USING STRONG MAGNETIC FIELD AND COPPER ELECTRODES
NASA-TN-D-2032 N64-10347 01-10

TRANSMISSION ELECTRON MICROSCOPY OF SUBSTRUCTURES OF PLASTICALLY DEFORMED COPPER UNDER STATIC AND SHOCK LOADING
UCRL-10932 N64-10396 01-18

ISOTHERMAL SINTERING OF POWDERED COPPER, NICKEL, AND IRON UNDER PRESSURE
JPRS-18245 N64-10574 01-18

TENSILE TESTING OF THREADLIKE CRYSTALS OF COPPER, NICKEL, AND COBALT N64-10709 02-25

HYDROSTATIC PRESSING OF COPPER, IRON, NICKEL, AND MOLYBDENUM POWDERS N64-11479 03-17

DENSITY AND ELASTICITY CHANGES IN PRESSING OF ALUMINUM, TUNGSTEN, AND COPPER POWDERS
N64-11483 03-17

SPECTRAL DISTRIBUTION OF COPPER POSITRON FLUX IN INFINITE COPPER MEDIUM
ORNL-3469 N64-12118 03-23

ENERGY DISTRIBUTIONS FOR ATOMS SPUTTERED FROM COPPER & POLYCRYSTALLINE SURFACES UNDER MERCURY & NOBLE GAS BOMBARDMENT
AD-424612 N64-12476 04-23

VELOCITIES OF SPUTTERED ATOMS DETERMINED BY PULSING TARGET AND MEASURING TRANSIT TIME OF ATOMS - POLYCRYSTALLINE & SINGLE CRYSTAL COPPER
N64-12477 04-23

ENERGY DISTRIBUTIONS FOR ATOMS SPUTTERED FROM COPPER & POLYCRYSTALLINE SURFACES BOMBARDED BY MERCURY & NOBLE GAS IONS N64-12479 04-23

ENERGY DISTRIBUTIONS OF COPPER ATOMS SPUTTERED BY HELIUM, NEON, ARGON, XENON, AND MERCURY
N64-12480 04-23

ENERGY DEPOSITED IN WATER, COPPER, AND ALUMINUM BY ELECTRON BEAM N64-12534 04-23

SPALL THRESHOLDS IN COPPER IN RELATION TO STRESS-TIME IN FAILURE REGION & METHOD OF INDUCING SHOCK WAVES N64-13446 05-25

ORIENTED COPPER SINGLE CRYSTAL GROWTH, CHEMICAL POLISHING, ELECTROCHEMICAL CUTTING, AND TENSION & COMPRESSION GRIPS
RAC-921-1 N64-13603 05-25

CYCLIC STRAIN ACCUMULATION IN COPPER TUBE UNDER STEADY TENSION AND ALTERNATING TORSION - CYCLIC CREEP
RTD-TDR-63-4120 N64-14653 06-18

GAMMA-RAY SPECTROMETRIC DETERMINATION OF IRON, COPPER, PHOSPHOROUS, AND NICKEL IN SILICON USING ION-EXCHANGE
AFCRL-63-388 N64-14685 06-23

HYPERVELOCITY IMPACT OF COPPER FILAMENTS INTO ALUMINUM TARGETS
NASA-TN-D-1981 N64-14726 06-02

DETERMINATION OF SHOCK WAVE SENSITIVITY BY DETONATION TRANSFER FROM EXPLOSIVES THROUGH COPPER BARRIERS TO EXPLOSIVES
RSIC-122 N64-16041 07-26

FATIGUE OF COPPER SINGLE CRYSTALS
RAC-921-2 N64-16659 08-25

DIFFUSION OF SILVER IN POLYCRYSTALLINE COPPER AND

COPPER-ANTIMONY ALLOY N64-17039 09-25

MECHANICAL PROPERTIES OF COPPER AND COPPER ALLOYS N64-17047 09-18

X-RAY SPECTROGRAPHIC ANALYSIS OF COPPER AND ZINC N64-17051 09-23

THERMAL & ELECTRIC PROPERTIES OF COPPER, SILVER, GOLD, ALUMINUM, & COPPER BASE ALLOYS N64-17072 09-18

TENSILE BEHAVIOR OF COPPER FOILS PREPARED FROM ROLLED BULK MATERIAL N64-17447 09-25

TUNGSTEN AND COPPER-FILLED TUNGSTEN AS THROAT MATERIALS IN HOTSHOT WIND TUNNEL
AEDC-TDR-64-56 N64-18371 10-18

TWO QUANTITATIVE TITRATION METHODS FOR SELENIUM USING POTASSIUM IODIDE AND COPPER ANODE MUD N64-20663 13-07

ELECTRON-SLOWING-DOWN FLUX SPECTRUM OF LOW ENERGY BETA RAYS FROM COPPER 64 IN COPPER
ORNL-3463 N64-21017 14-23

DRAWING OF COPPER WIRE IN ULTRASONIC FIELD
FTD-TT-63-675/1&2 N64-22354 15-17

PHOTOELECTRIC APPARATUS FOR STORING INFORMATION ON NICKEL AND COPPER TAPES
A-51035ARID N64-22495 15-09

X-RAY INVESTIGATION OF DISTORTION OF CRYSTALLINE STRUCTURE OF STEEL AND RED COPPER SUBJECTED TO FATIGUE TESTING N64-23835 16-33

SLIDING FRICTION AND WEAR OF COPPER MEASURED UNDER STRESS
RTD-TDR-63-4257 N64-24236 17-17

ENERGY PARTITIONING IN HIGH VELOCITY IMPACT IN LEAD AND COPPER
UU-14 N64-25345 17-23

RESPONSE OF THERMOCOUPLE JUNCTION TO SHOCK WAVES IN COPPER N64-25348 17-23

PREPARATION OF COPPER POWDER FROM LEACH SOLUTIONS AFTER PRECIPITATION WITH IRON
BM-RI-6486 N64-25833 17-18

PRECISION TURNING OF SPHERICAL SPECIMENS OF ALUMINUM, NICKEL, AND COPPER
Y-1463 N64-26477 18-17

FLUORINATION OF COPPER AT HIGH TEMPERATURES
NASA-RP-265 N64-26590 18-07

CYCLIC STRESS-STRAIN BEHAVIOR IN INTERMEDIATE CYCLE FATIGUE RANGE OF COPPER AND 4130 STEEL
ML-TDR-64-120 N64-27460 19-18

THERMODYNAMIC PROPERTIES OF CUPROUS AND CUPRIC FERRITES
BM-RI-6513 N64-28107 20-07

ZINC, COPPER, COBALT, AND MOLYBDENUM IN SOILS OF EUROPEAN PART OF USSR
JPRS-26040 N64-28350 20-07

FAR INFRARED SPECTRA OF COPPER HALIDES, CUPRITE, RUBY, & ALKALI HALIDES OVER WIDE TEMPERATURE RANGE
AFCRL-64-489 N64-28552 20-25

MICROSTRAIN AND LOW FREQUENCY HYSTERETIC DISLOCATION DAMPING IN COPPER SINGLE CRYSTALS
NASA-CR-58586 N64-28999 20-25

GROWTH OF COPPER CRYSTALS OF LOW DISLOCATION DENSITY N64-29096 21-25

CHEMICAL KINETICS OF REACTION OF COPPER WITH OXYGEN DISSOLVED IN COPPER AND TIN N64-31410 23-07

COPPER PLATING OF STEEL, ZINC ALLOY, AND ALUMINUM FROM PYROPHOSPHATE ELECTROLYTES N64-31424 23-17

COPPER TRANSMITTING ELEMENTS OF ELECTRONIC THERMOMETERS FOR MEASURING CONVECTIVE MOTION OF CUMULUS CLOUDS
E-T-R-64-14 N64-31681 23-21

CALCULATION OF PARTITION FUNCTION, IONIZATION POTENTIAL LOWERING, ELECTRON, ION, & NEUTRAL PARTICLE SPECIES CONCENTRATIONS, AND SPECTRAL LINE INTENSITIES OF COPPER PLASMA
REPT.-4613-66-T N64-32675 23-24

COPPER ALLOY

MECHANICAL PROPERTIES OF ORDERED COPPER-GOLD ALLOY CRYSTALS N64-10740 02-25

ELECTRON MICROSCOPE STUDY OF SLIP FLOW TRANSITION IN DEFORMATION OF COPPER-GOLD AND COPPER-PALLADIUM ALLOYS N64-10747 02-18

CREEP RATE, LOAD LIFE, AND AUTODIFFUSION CONSTANT OF COPPER-NICKEL ALLOYS OF VARYING COMPOSITION AT HIGH TEMPERATURES
JPRS-17728 N64-11210 02-18

MANUFACTURING, MECHANICAL, AND PLASTICITY TESTING OF POWDERED METAL - IRON-COPPER ALLOY
JPRS-22247 N64-11870 03-18

SPOT WELDING OF PATCHES OF SILVER-LITHIUM & COPPER BRAZING ALLOYS FOR STATIC & SHEAR FATIGUE STRENGTH
FGT-2999 N64-12648 04-18

ACCELERATION & RETARDATION OF DELAYED FAILURE IN BERYLLIUM-COPPER WETTED WITH MERCURY
IITRI-B183-15 N64-14358 04-18

ELECTRIC RESISTANCE AND X-RAY STUDY OF CRYSTAL STRUCTURE ORDERING TRANSFORMATION IN GOLD-COPPER ALLOYS
AD-431106 N64-16339 08-25

DIFFUSION OF SILVER IN POLYCRYSTALLINE COPPER AND COPPER-ANTIMONY ALLOY N64-17039 09-25

MECHANICAL PROPERTIES OF COPPER AND COPPER ALLOYS N64-17047 09-18

ABSORPTIVE ACTIVITY OF COPPER & ALUMINUM BASED ALLOYS WITH SMALL ADMIXTURES N64-17057 09-23

THERMAL & ELECTRIC PROPERTIES OF COPPER, SILVER, GOLD, ALUMINUM, & COPPER BASE ALLOYS N64-17072 09-18

EFFECT OF ALLOY COMPOSITION ON PROPERTIES OF ALUMINUM-COPPER CASTING ALLOYS
NASA-CR-55908 N64-17673 09-18

ACTIVITIES OF COPPER AND NICKEL IN LIQUID COPPER-NICKEL ALLOYS
BM-RI-6410 N64-17716 09-23

FATIGUE AND CRACK PROPAGATION IN ALUMINUM, AND DISLOCATION MECHANISM IN COPPER-ZINC ALLOYS
WADD-TR-60-313, PT. 2 N64-17850 10-33

ALUMINUM OXIDE CRUCIBLE FAILURE IN PRESENCE OF NICKEL-COPPER-IRON ALLOYS
RTD-TDR-63-4159 N64-18024 10-19

IMPURITY EFFECT ON HEAT RESISTANCE OF ALUMINUM-BASED COPPER ALLOYS
FTD-MT-63-148 N64-18686 11-18

COMPARATIVE STUDY OF 354-T61 AND 356-T6 ALUMINUM-SILICON-COPPER-MAGNESIUM CASTING ALLOYS FOR MECHANICAL PROPERTY ADVANTAGES
SM-44636 N64-18708 11-18

EFFECT OF CHEMICAL COMPOSITION ON ARTIFICIAL AGE HARDENING & STRESS CORROSION CRACKING OF HIGH STRENGTH ALUMINUM-ZINC-MAGNESIUM-COPPER ALLOYS
RSIC-177 N64-21912 15-18

LATTICE THERMAL CONDUCTIVITY OF COPPER-NICKEL ALLOYS
DI-82-0333 N64-26512 18-18

PURITY EFFECT ON GRAIN GROWTH IN ALUMINUM AND ALUMINUM-COPPER ALLOY
ARDD-2205-6 N64-27067 19-18

PROPRIETARY ALUMINUM BRONZE - SMELTING, POURING TECHNIQUE, CASTING, HEAT TREATMENT, PROPERTIES AND APPLICATIONS
JPRS-26322 N64-28427 20-18

PHYSICAL PROPERTIES OF PRODUCTION GRADE ALUMINUM OXIDE-COPPER ALLOY RODS
JPRS-26000 N64-28444 20-18

ELECTRON MICROGRAPHIC STUDIES AND HARDNESS TESTS MADE OF COPPER-SILICON DIOXIDE ALLOY
N64-28844 20-18

ALLOY EFFECTS ON ROOM TEMPERATURE TENSILE PROPERTIES AND MICROSTRUCTURE OF TUNGSTEN-FIBER REINFORCED COPPER ALLOY COMPOSITES
NASA-RP-311 N64-31442 23-17

INVESTIGATION OF OPTICAL PROPERTY OF COPPER-ZINC ALLOY - COLOR VARIATIONS AS FUNCTION OF ZINC CONCENTRATION AND TEMPERATURE
A64-12 N64-31648 23-25

FREE ELECTRON THEORY OF SPECIFIC HEATS OF DILUTE ALLOYS AND APPLICATION TO COPPER AND ALUMINUM BASED ALLOYS
FTR-5 N64-32134 23-25

X-RAY ANALYSIS OF CRYSTAL STRUCTURE CHANGES IN COPPER ALLOYS DURING AGING N64-32848 24-18

COPPER CHLORIDE
RELAXATION TIME OF SPIN-FLOPPING TRANSITION IN CUPROUS CHLORIDE
MC-62-49-R2 N64-30002 21-25

COPPER COMPOUND
CONDUCTION MECHANISM IN LITHIUM-SUBSTITUTED OXIDES OF MANGANESE, COBALT, NICKEL, AND COPPER
N64-18117 10-25

CHEMISTRY OF LEACHING COPPER SULFIDE MINERALS WITH AUTOTROPIC BACTERIA - MINERALOGY
BM-RI-6423 N64-18987 11-16

RESISTIVITY AND SEEBECK COEFFICIENTS OF BISMUTH SULFIDE-CUPROUS SULFIDE SYSTEM IN LIQUID STATE
QPR-2 N64-19388 12-09

COPPER SULFIDE LAYERS ON GALLIUM ARSENIDE FILMS FOR LARGE-AREA SOLAR CELLS
NASA-CR-54046 N64-20671 13-06

LITHIUM-COPPER FLUORIDE & LITHIUM-COBALT FLUORIDE COUPLES FOR HIGH ENERGY BATTERY SYSTEMS FOR SPACE APPLICATIONS
AD-433543 N64-21486 14-06

LITHIUM-CUPRIC FLUORIDE AND LITHIUM-COBALTIC FLUORIDE ELECTROCHEMICAL CELLS FOR BATTERIES
APL-TDR-64-59 N64-23970 16-09

GEOMETRY OF TRANSITION METAL DIHALIDES - FLUORIDES OF MANGANESE, COBALT, NICKEL, COPPER, & ZINC
ITR-6 N64-25586 17-19

X-RAY SPECTRUM OF SUPERCONDUCTOR COMPOUND COPPER SULFIDE N64-27178 19-25

DYNAMIC PROPERTIES OF MAGNETIC PHASE TRANSITIONS - RELAXATION TIME OF SPIN-FLOPPING TRANSITION IN CUPRIC CHLORIDE DIHYDRATE CRYSTALS
MC-62-49-R4 N64-32104 23-25

CORDIERITE
LOW TEMPERATURE HEAT CAPACITY & ENTROPY OF AKERMANITE, CORDIERITE, GEHLENITE, & MERWINITE
BM-RI-6343 N64-12121 03-13

CORE
WRINKLING AS FUNCTION OF SURFACE WAVINESS IN ALUMINUM HONEYCOMB CORE PANELS
ERR-FW-196 N64-16628 08-34

SANDWICH SPECIMEN EVALUATION TO DETERMINE EFFECT OF HONEYCOMB CORE CELL SIZE ON EDGEWISE COMPRESSION OF SANDWICH CONSTRUCTION
FPL-026 N64-17370 09-33

HEAT TRANSFER IN HONEYCOMB SANDWICH PANELS IN STRUCTURE OF AIRCRAFT AND MISSILES
ERR-FW-104 N64-18945 11-13

KINETIC HEATING OF SANDWICH PLATE WITH HONEYCOMB CORE
RSIC-169 N64-21580 15-13

PHYSICAL AND MECHANICAL PROPERTIES OF INCONEL HONEYCOMB CORE
A736 N64-22581 15-18

LIGHTWEIGHT ALUMINUM HONEYCOMB CASE
PR-2 N64-24066 16-18

CORIOLIS EFFECT
ANNOTATED BIBLIOGRAPHY OF TRANSLATIONS OF FOREIGN LANGUAGE ARTICLES ON NYSTAGMUS, VESTIBULAR STIMULATION, & CORIOLIS EFFECTS
N64-10432 01-14

DERIVATIONS FOR SUBTROPICAL ANTICYCLONE MOTION, PSEUDO-GEOSTROPHIC RELATIVE MAGNITUDE, ABSOLUTE VORTICITY, AND CORIOLIS EQUATIONS
JPRS-18011 N64-10736 02-12

DYNAMIC MODELS WITH CORIOLIS EFFECT TO EXPLAIN FORMATION OF SPIRAL CLOUD BANDS IN HURRICANES AND CYCLONES
GCA-TR-63-4-G N64-11945 03-21

VESTIBULAR DISORIENTATION DUE TO CORIOLIS ACCELERATION
NASA-CR-55784 N64-16331 08-14

CORIOLIS EFFECTS IN VIBRATION AND SPIN TESTING IN CENTRIFUGE
NASA-TN-D-1914 N64-21422 14-10

EFFECT OF CORIOLIS FORCES ON ONSET OF THERMAL CONVECTION IN SHALLOW LAYER OF VISCOUS LIQUID
REPT.-562/07//54 N64-22519 15-13

PRINCIPAL VECTOR AND PRINCIPAL MOMENT OF REACTIVE AND CORIOLIS FORCES IN ROCKET ENGINES
NASA-TT-F-8693 N64-24910 17-26

EFFECT OF CORIOLIS ACCELERATION DURING ZERO GRAVITY FLIGHT ON CERTAIN HEMATOLOGICAL AND URINARY PARAMETERS IN NORMAL AND LABYRINTHINE DEFECTIVE SUBJECTS
NASA-CR-58675 N64-28876 20-16

OSCILLATING SPHERE IN ROTATING VISCOUS FLUID - EFFECT OF CORIOLIS FORCES ON FLOW PATTERN
NASA-TM-X-55050 N64-28900 20-11

CORIOLIS AND BLOCKING EFFECTS IN DEFORMED EVEN-EVEN NUCLEI
TR-372 N64-32054 23-23

COMPARISON OF NUMERICALLY DETERMINED DIVERGENT AND NONDIVERGENT WINDS TO GEOSTROPHIC WINDS
AD-601704 N64-32587 23-21

CORNEA
ASEPTIC INFLAMMATION OF CORNEA UNDER INFLUENCE OF BETA RADIATION FROM RADIOACTIVE THALLIUM
JPRS-24936 N64-21285 14-16

CORONA
SA SOLAR CORONA
CORONA THRESHOLD DISCHARGE STUDY OF AIRCRAFT PROPELLER NOISE REDUCTION
SRI-TR-77 N64-11443 03-08

HYDRODYNAMICS OF STELLAR CORONAS AND WINDS - INTEGRATION OF MOMENTUM EQUATION
N64-16773 08-28

CHARACTERISTICS OF POSITIVE CORONA FOR ELECTRICAL PRECIPITATION AT HIGH TEMPERATURES AND PRESSURES
BM-RI-6397 N64-16884 08-23

SOLAR ECLIPSE DATA - CORONAL EMISSION SPECTRA AND

ELECTRON CORONA
HAO-59 N64-18124 10-28

DYNAMIC PROPERTIES OF STELLAR CORONAS & STELLAR WINDS AND INTEGRATION OF HEAT-FLOW EQUATION
N64-18280 10-28

HEATING AND IONIZATION OF GAS STREAM BY PULSED CORONA DISCHARGE
ARL-64-43 N64-22313 15-24

ELECTRON IMPACT IONIZATION AND ATTACHMENT IN POLYATOMIC GASES, AND CORONA-INDUCED WEIGHT LOSS IN MYLAR AND H FILMS
ML-TDR-64-57 N64-26308 18-07

PROBE METHOD OF STUDYING DIRECT CURRENT CORONA DISCHARGE FIELD USING OSCILLOGRAPH
FTD-TT-62-1530 N64-26859 18-15

YELLOW CORONAL LINE OBSERVATION DURING INTERNATIONAL GEOPHYSICAL YEAR
IGY SOLAR ACT. REPT. SER.-27 N64-27077 19-28

TYPE II SOLAR RADIO BURSTS AND MAGNETIC FIELD IN CORONA N64-30293 22-28

ULTRAVIOLET SPECTRA AND TRANSITION PROBABILITIES FOR CORONAL IONS
NASA-TT-F-8940 N64-30834 22-28

ELECTRON IMPACT IONIZATION AND ATTACHMENT IN POLYATOMIC GASES, AND CHEMICAL DEGRADATION OF MATERIALS FROM CORONA DISCHARGE
ML-TDR-64-57 N64-32751 24-07

DAMAGE TO MATERIALS FROM POSITIVE AND NEGATIVE DIRECT CURRENT /DC/ CORONA DISCHARGES
N64-32754 24-07

EFFECT OF DIRECT CURRENT /DC/ CORONA DISCHARGES ON THIN FILMS OF RADIOACTIVE POLYETHYLENE-TYPE MATERIALS N64-32755 24-19

CORONA BOREALIS
POLARIMETRIC OBSERVATION OF THE STAR BETA CORONA BOREALIS N64-10032 01-05

CORPUSCULAR RADIATION
SA SOLAR CORPUSCULAR STREAM
EVIDENCE FOR EFFECT OF CORPUSCULAR RADIATION ON IONOSPHERE - ELECTRON DENSITY & IONIZATION FOR LONG & SHORT TERM VARIATIONS
NASA-TM-X-51058 N64-10297 01-28

CORPUSCULAR RADIATION IN UPPER ATMOSPHERE
NASA-CR-55113 N64-12097 03-28

OPTICAL & CORPUSCULAR SOLAR FLARE RADIATION
RTD-TDR-63-3044 N64-13779 05-28

COSMIC & SOLAR ELECTROMAGNETIC AND CORPUSCULAR RADIATION
NASA-CR-55438 N64-14868 06-28

IONOSPHERIC ELECTRON DENSITY AS EFFECT OF CORPUSCULAR RADIATION
NASA-RP-144 N64-17564 09-12

CORPUSCULAR RADIATION MEASUREMENT IN UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V
FTD-TT-63-1019/1&2 N64-21965 15-12

SOFT CORPUSCULAR RADIATION IN EQUATORIAL LATITUDES MEASURED WITH SCINTILLATION COUNTER ABOARD COSMOS IV SATELLITE N64-23866 16-28

CORPUSCULAR RADIATION OF SUN AND ZODIACAL LIGHT N64-24776 17-29

ELECTROMAGNETIC AND CORPUSCULAR RADIATION, METEOROID FLUX, AND PLANETARY ATMOSPHERES
NASA-CR-58136 N64-26370 18-29

SOLAR WINDS AND CORPUSCULAR RADIATION
NASA-TT-F-9059 N64-31339 23-28

DIFFERENTIAL AND INTEGRAL ENERGY SPECTRA OF ELECTRONS AND PROTONS IN MAGNETOSPHERE DETERMINED BY CORPUSCULAR RADIATION INSTRUMENTATION IN P-11 SUB-SATELLITE N64-31844 23-28

MEASUREMENTS OF ENERGY SPECTRA OF CORPUSCULAR RADIATION IN MAGNETOSPHERE LAYERS BY P-11 SUB-SATELLITE
ASE-604 N64-31845 23-28

CORPUSCULAR RADIATION ON DESCENDING CURVE OF SOLAR ACTIVITY CYCLE
NASA-TT-F-225 N64-34019 24-28

CORRELATION
ASYMPTOTIC NORMAL DISTRIBUTION OF AUTOCORRELATIONS OF LINEAR STOCHASTIC PROCESS
CU-69-63-NONR-266/33/MS N64-11940 03-20

PARTICULAR CROSS-CORRELATION SIGNAL PROCESSING TECHNIQUE WITH POTENTIAL APPLICATION TO WEAPON SYSTEMS - RADAR SYSTEM
RE-TR-63-23 N64-12220 03-09

ASTRONOMICAL UNIT DETERMINATION - CORRELATION OF ERRORS, ESTIMATION, AND VARIANCE
NASA-CR-55541 N64-15546 07-05

EXPRESSIONS FOR COEFFICIENT OF SPATIAL AUTOCORRELATION OF AMPLITUDE AND PHASE FROM STATISTICALLY ROUGH SURFACE N64-23791 16-01

TABLES OF X-COEFFICIENTS AND LAMBDA-FACTORS FOR TRIPLE ANGULAR CORRELATION MEASUREMENTS IN NUCLEAR REACTION STUDIES
NASA-TN-D-2454 N64-28335 20-23

CORRELATIVE STUDIES OF BIOLOGICAL ULTRASTRUCTURE BY HIGH RESOLUTION ELECTRON MICROSCOPY
N64-30791 22-16

EFFECT OF ATMOSPHERIC TURBULENCE ON LASER COMMUNICATIONS SYSTEM, OPTICAL WAVE FRONT DISTORTION, ANGULAR SCINTILLATION, AND PHASE AND AMPLITUDE CORRELATION FUNCTIONS
SID-64-1894-2 N64-32756 24-01

ANGULAR SCINTILLATION CORRELATION FUNCTION OF DISTORTED WAVE FRONT
TM-131 N64-32764 24-01

ANGULAR RESOLUTION BY WAVE FRONT APPROXIMATION METHOD
TM-132 N64-32765 24-01

CONDENSING PRESSURE DROP PREDICTION BY IMPROVED LOCKHART-MARTINELLI METHOD
NASA-CR-116 N64-32828 24-11

CORRELATION FUNCTION
CORRELATION FUNCTION CALCULATION OF LATTICE THERMOCONDUCTIVITY BY LIOUVILLE OPERATOR METHOD
USNRDL-TR-694 N64-15076 07-13

RADAR REFLECTION FROM PLANETARY SURFACE DESCRIBED BY COMPOSITE SURFACE CORRELATION FUNCTION
USAELRDL-TR-2314 N64-20335 13-01

CORRELATION FUNCTION OF LOGARITHMIC AMPLITUDE FLUCTUATION AT TWO RECEIVERS FOR ARBITRARY TURBULENCE ALONG WAVE PROPAGATION PATH
TR-1209 N64-21099 14-23

CORRELATION FUNCTIONS FOR SCATTER PROPAGATION IN RADAR SYSTEM
USCEE-110 N64-33363 24-01

ELECTRONIC EQUIPMENT AND TWO-BODY CORRELATION FUNCTIONS FOR PLASMA CONFINEMENT APPARATUS
SIT-P126 N64-33639 24-14

CORRELATION FUNCTIONS AND POWER SPECTRAL DENSITY FUNCTIONS - DATA REDUCTION
NADC-AC-6408 N64-33755 24-23

CORROSION
SA ELECTROCHEMICAL CORROSION
SA EROSION
SA METAL CORROSION
SA STRESS CORROSION
CF DEGRADATION
CF WEAR
CORROSION OF REINFORCING STEEL IN POROUS CONCRETE
JPRS-17616 N64-10704 02-18

CORROSION PROBLEMS ASSOCIATED WITH USE OF TITANIUM FASTENERS TO CONNECT ALUMINUM COMPONENTS
NASA-TM-X-51167 N64-11381 02-07

CORROSION RESISTANCE OF BERYLLIUM AND BERYLLIUM ALLOYS
NMI-1911 N64-12094 03-18

REFRACTORY ROCKET LINER MATERIALS - SUMMARY OF THEORETICAL THERMOCHEMICAL CORROSION STUDIES
U-2384 N64-12812 04-19

CORROSION FATIGUE TEST OF SURFACE-TREATED HIGH STRENGTH STEELS
NEL-102 N64-13342 04-18

CORROSION STABILITY OF TITANIUM ALLOYS JOINED BY DIFFUSION WELDING UNDER VACUUM N64-13421 05-07

SYMPOSIUM ON ZIRCONIUM ALLOYS FOR POWER REACTORS - CORROSION RESISTANCE, STRUCTURE DEFECTS & ELECTRIC PROPERTIES
GEAP-4089, VOL. 1 N64-14425 06-18

HIGH TEMPERATURE CORROSION STUDIES OF METAL ALLOYS
BM-RI-6359 N64-14882 06-07

STRESS-CORROSION IN 18-PERCENT NICKEL MARAGING STEEL OF VARYING COMPOSITION IN DIFFERENT ENVIRONMENTS AND WITH THREE TYPES OF COATING
REPT.-0414-02-2 N64-15376 07-18

EFFECT OF WATER CORROSION PRODUCTS ON SLUDGE FORMATION
FTD-TT-63-964/1&2 N64-16050 07-23

SILICON, NITROGEN, AND OXYGEN IMPURITIES EFFECT ON CORROSION AND HYDROGEN ABSORPTION OF ZIRCALOY-2
WAPD-283 N64-16259 08-18

CORROSION OF REFRACTORY METALS BY LITHIUM
ORNL-3551 N64-16535 08-18

CORROSION PROTECTION COATINGS FOR F-111 AIRCRAFT FUEL TANKS
FTDM-3126 N64-16637 08-19

BIBLIOGRAPHY OF CORROSION AND MOISTURE PROBLEMS IN AEROSPACE INDUSTRY
SID-64-11 N64-17276 09-18

CORROSIVENESS OF LIQUID AND GASEOUS FLUORINE
NASA-TM-X-54612 N64-17691 09-18

DYNAMIC CORROSION AND CHEMICAL CONTROL TEST LOOP FOR NUCLEAR REACTOR
IDO-16812 N64-17840 09-07

CORROSION RESISTANCE OF DIBORIDES IN PSEUDOBINARY SYSTEM TITANIUM BORIDE-CHROMIUM BORIDE
BM-RI-6418 N64-17986 10-19

SUNFLOWER SOLAR RANKINE SYSTEM DEVELOPMENTAL TEST RIGS, MERCURY COMPATABILITY, AND CORROSION PRODUCT TRAPPING EXPERIENCE
ER-5302 N64-18337 10-06

CORROSION OF MAGNESIUM ALLOYS IN SALT FOG ENVIRONMENT
CCL-161 N64-20301 13-18

EFFECT OF OXIDE DISSOLUTION AND HEAT TRANSFER ON CORROSION OF ALUMINUM-CLAD FUEL ELEMENTS
HW-77529 N64-20698 13-07

LIQUID METAL CORROSION PROCESSES
NASA-SP-41 N64-20783 14-01

LIQUID METAL CORROSION AS DISSOLUTION PHENOMENON - MASS TRANSFER PROCESSES N64-20785 14-18

CHEMICAL CORROSION BY LIQUID METALS N64-20786 14-07

LIQUID METAL CORROSION OF SOLID METALS - DIFFUSION EFFECTS N64-20787 14-07

SOLID METAL CORROSION BY LIQUID METAL - SOLUTION CONTROLLED PROCESSES N64-20788 14-07

OXYGEN IMPURITY EFFECTS ON LIQUID METAL CORROSION OF SOLID METALS N64-20789 14-07

NITROGEN AND HYDROGEN IMPURITIES IN LIQUID METAL CORROSION OF SOLID METALS N64-20790 14-07

CARBON IMPURITY EFFECTS ON LIQUID METAL CORROSION PROCESSES N64-20791 14-07

INHIBITORS AND ACCELERATORS IN LIQUID METAL CORROSION N64-20792 14-07

VAPOR PHASE IN LIQUID METAL CORROSION PROCESSES N64-20796 14-13

CORROSION IN TWO PHASE LIQUID METAL SYSTEMS N64-20797 14-13

CORROSION IN ISOTHERMAL REGIONS OF LIQUID METAL BOILING LOOPS - DOWNSTREAM EFFECT N64-20798 14-07

RADIATION EFFECT ON LIQUID METAL CORROSION N64-20800 14-23

CORROSION BY LIQUID METALS N64-20801 14-07

SURFACE ENERGY PHENOMENA AND CORROSION N64-20802 14-23

COMPATIBILITY TESTS WITH ALKALI METALS - CORROSION STUDIES N64-20803 14-07

BOILING STABILITY AND LIQUID METAL CORROSION TESTS N64-20804 14-13

HEAT TRANSFER AND FLUID-MECHANICS INFLUENCE ON LIQUID METAL CORROSION N64-20805 14-07

CORROSION OF TITANIUM AND ITS ALLOYS
JPRS-24602 N64-20913 14-18

CORROSION AND ELECTROCHEMICAL BEHAVIOR OF TITANIUM AND TITANIUM-MOLYBDENUM ALLOYS N64-20915 14-18

CURRENT DENSITY EFFECT ON HYDROGEN EMBRITTLEMENT AND CORROSION OF TITANIUM ALLOYS N64-20917 14-18

HYDROGEN EMBRITTLEMENT AND CORROSION OF TITANIUM ALLOYS UNDER STRESS N64-20918 14-18

ELECTROCHEMICAL CORROSION OF METALS AND ALLOYS IN PHOSPHORIC ACID ELECTROLYTE OF HYDROCARBON-AIR FUEL CELLS
AD-439400 N64-21297 14-06

AUTOMATIC VOLTAGE REGULATOR FOR PROTECTION OF UNDERGROUND INSTALLATIONS FROM CORROSION N64-23090 16-09

DETERIORATION OF GAS TURBINE MATERIALS BY SULFUR, VANADIUM, AND ALKALI COMPONENTS OF LIQUID FUEL N64-23319 16-26

CORROSION OF GAS TURBINE MATERIALS BY DUST-BEARING HOT GAS N64-23320 16-26

CORROSION AND ANTIWEAR TESTING OF INORGANIC SALTS FOR HIGH TEMPERATURE LUBRICANTS
FTD-TT-63-1151/1&2 N64-23443 16-17

PRODUCTION METHOD FOR CONTROLLED MICROBIOLOGICAL CORROSION ON TEST SPECIMENS
ADN-09-08A-63.1 N64-23899 16-16

CORROSION BY HYDROGEN CHLORIDE GAS AND SOLUTIONS OF HYDROCHLORIC ACID N64-24267 17-07

CORROSION OF STEEL REINFORCEMENT IN CONCRETE STRUCTURES N64-24279 17-18

CORROSION TEST LOOP FOR EVALUATION OF REFRACTORY ALLOYS IN BOILING POTASSIUM ENVIRONMENT
NASA-CR-54081 N64-25005 17-18

NUCLEAR RADIATION EFFECTS ON CORROSION OF REACTOR MATERIALS - MICROGRAVIMETRIC METHOD
EURAEC-874 N64-26045 18-23

CORROSION OF BERYLLIUM BY HIGH TEMPERATURE AIR - SYSTEM FOR NUCLEAR AUXILIARY POWER-8 /SNAP-8/ GROUND TEST
NAA-SR-9672 N64-26799 18-18

ADHESIVES IN CONSTRUCTION AND AIRCRAFT STRUCTURES, AGE HARDENING, STRESS DISTRIBUTION, CORROSION, AND NONDESTRUCTIVE TESTING
WGLR-1/1964 N64-27228 19-20

CORROSION MECHANISMS IN REFRACTORY METAL-ALKALI METAL SYSTEMS N64-27587 19-18

REACTOR TECHNOLOGY - FUEL ELEMENTS, CORROSION, CREEP, ZIRCONIUM ALLOYS, AND GAS COOLED REACTOR
BMI-1674-/DEL/ N64-28017 20-18

EFFECT OF COMBINED PRIOR STRESS AND ATMOSPHERIC CORROSION ON FATIGUE LIFE OF ALUMINUM ALLOYS
NASA-TN-D-2359 N64-28093 20-18

CORROSION AND RESISTANCE OF, AND RADIATION EFFECTS ON STEELS AND OTHER CONSTRUCTION METALS
JPRS-26020 N64-28445 20-18

PITTING AND GALVANIC CORROSION OF ALUMINUM IN URANIUM ALUMINUM-CLAD FUEL SLUGS IN SUBCRITICAL AND ZERO POWER NUCLEAR REACTORS
DP-911 N64-28506 20-18

ANNOTATED BIBLIOGRAPHY ON CORROSION EFFECTS OF PURE AND DISTILLED WATER
NASA-CR-58640 N64-28887 20-18

CORROSION OF STAINLESS STEEL BY SIMULATED WATER MODERATED REACTOR FUEL - DEPLETED URANIUM OXIDE IN NITRIC OR PHOSPHORIC ACID
LA-3101 N64-29772 21-18

STRUCTURAL FAILURES OF AIRCRAFT CAUSED BY FATIGUE, CORROSION, AND ABRASION
TRECOM-TR-64-36 N64-30118 21-04

IMPURITY EFFECTS ON ZIRCALOY-2 MICROSTRUCTURE, MECHANICAL PROPERTIES, AND CORROSION RATES
BM-RI-6536 N64-30398 22-18

WEAR LIFE AND CORROSION PROTECTIVE ABILITY OF SOLID FILM LUBRICANT SUBSTRATES
RIA-64-1377 N64-31310 22-17

FRACTURE TOUGHNESS, FATIGUE-CRACK PROPAGATION, AND CORROSION CHARACTERISTICS OF ALUMINUM ALLOY PLATES FOR WING SKINS
AD-447686 N64-32546 23-18

STAINLESS STEEL - COMPOSITION, PROPERTIES, STRUCTURE, AND RESISTANCE TO CORROSION, OXIDATION, AND RADIATION
DP-860, VOL. 1 N64-33060 24-18

CORROSION OF METALS IN MERCURY VAPOR AT HIGH TEMPERATURES - STAINLESS STEELS, MARTENSITIC CHROMIUM STEELS, COBALT & NICKEL ALLOYS AND REFRACTORY METALS
NASA-TM-X-54787 N64-33681 24-18

HYDROGEN EMBRITTLEMENT FROM CORROSION, CATHODIC PROTECTION, ELECTROPLATING AND PERMEATION RATES
AD-446525 N64-33713 24-07

EFFECT OF AVIATION TURBINE HYDROCARBON FUEL PROPERTIES ON CORROSION OF SUPERALLOYS AND ON FLAME RADIATION IN COMBUSTOR
RDR-3753-64R N64-33849 24-26

SURFACE CHEMISTRY AND CORROSION WITH GASEOUS, LIQUID, AND SOLID PHASES - RADIOACTIVE DATING N64-33892 24-07

PROBLEMS ASSOCIATED WITH RESTART OF NOZZLES FOR SOLID PROPELLANT ROCKET ENGINES - THERMAL, STRUCTURAL, AND CORROSION ANALYSIS
U-2794 N64-33976 24-27

CORROSION PREVENTION
OIL ADDITIVES AS CORROSION INHIBITORS FOR INSIDE SURFACE PROTECTION OF OIL TANKS
JPRS-17719 N64-10631 01-07

ANTICORROSION COATINGS FOR PETROLEUM STORAGE TANKS
JPRS-17742 N64-10716 02-26

CORROSION AND PROTECTION OF MATERIALS - BIBLIOGRAPHIC INDEX
JPRS-18939 N64-10808 02-19

PRODUCTION OF HOT-ROLLED SEAMLESS, WELDED & BRAZED STEEL PIPE - CORROSION PREVENTIVE PIPE COVERING
JPRS-19703 N64-11129 02-17

IMPROVING CORROSION RESISTANCE OF CHROMIUM PLATING ON HIGH STRENGTH STEEL
FTDM-2960 N64-12602 04-18

ENDURANCE TESTING FOR SPLASH-COOLED COMBUSTOR AND FOR CORROSION PROTECTION OF TURBINE BLADING ALLOYS
REPT.-851-63R N64-12936 04-26

CORROSION PROTECTION BY TRANSPARENT PLASTIC FILM BAGGING
RIA-TR-63-2583 N64-13315 04-19

HYDROGEN AND NITROGEN EFFECT ON CORROSION RESISTANCE OF ZIRCONIUM METAL IN WATER VAPOR N64-13728 05-07

CORROSION RESISTANCE OF IRON IN LITHIUM N64-13735 05-07

CORROSION TEST OF TITANIUM AND TITANIUM-ALUMINUM ALLOY IN LIQUID LITHIUM N64-13736 05-07

CORROSION PREVENTION FOR ALUMINUM, STEEL AND MAGNESIUM TRIMETAL ASSEMBLIES USING STANNOUS PYROPHOSPHATE COATINGS
RIA-63-3471 N64-14013 05-19

PREVENTION OF GALVANIC CORROSION BETWEEN MAGNESIUM AND STEEL
CCL-150 N64-14104 05-07

ZIRCONIUM INHIBITOR FOR RETARDING CORROSION OF LOW ALLOY STEELS EXPOSED TO LIQUID BISMUTH & LEAD ALLOYS
BNL-811/T-313/ N64-14427 06-18

ALUMINIZATION OF HEAT RESISTANT AND CORROSION RESISTANT ALLOYS & MATERIALS N64-17078 09-17

MACHINING WEAR-RESISTANT ALLOYS & HIGH TEMPERATURE CORROSION-RESISTANT ALLOYS N64-17095 09-17

CORROSION INHIBITORS FOR USE IN AUTOMOTIVE COOLANTS - ANTIFREEZES
CCL-155 N64-18186 10-19

IMPROVED CORROSION INHIBITOR FOR WATER-ETHYLENE GLYCOL-TYPE ENGINE COOLANTS
CCL-156 N64-18193 10-19

RUST REMOVAL AND CORROSION PREVENTIVE COMPOUNDS - BIBLIOGRAPHY
RIA-63-2762 N64-18656 11-17

CORROSION PREVENTION WHEN USING MOLYBDENUM DISULFIDE LUBRICANTS N64-19153 11-17

CORROSION RESISTANCE OF THORIUM-ZIRCONIUM-NIOBIUM ALLOYS N64-19446 12-18

CERAMIC COATINGS FOR INSULATED WIRES EXPOSED TO ALKALI METAL VAPORS - CORROSION PREVENTION
APL-TDR-64-42 N64-19736 12-19

ELECTROCHEMICAL CORROSION MECHANISMS AND CORROSION RESISTANCE IN STAINLESS STEEL

FTD-TT-64-20/1&2 N64-19767 12-18

CORROSION INHIBITOR - SILVER-COPPER-LITHIUM BRAZED STEEL SANDWICH PANELS
FGT-3066 N64-20043 13-18

SCREENING TESTS OF SEALANTS & CORROSION PROTECTION COATINGS FOR F-111 AIRCRAFT INTEGRAL FUEL TANKS
FTDM-3165 N64-20057 13-19

SCREENING TESTS OF CORROSION PROTECTION COATINGS FOR USE IN F-111 AIRCRAFT INTEGRAL FUEL TANKS
FTDM-3211 N64-20065 13-17

SELF-PASSIVATION OF TITANIUM IN ACIDIC, BASIC AND NEUTRAL MEDIA N64-20914 14-18

PROTECTION OF NIOBIUM FROM HIGH TEMPERATURE GAS CORROSION
FTD-TT-62-1251/1&2 N64-21648 15-17

CORROSION FATIGUE PROPERTIES OF STRUCTURAL MATERIALS
ADR-02-09-64.1 N64-22415 15-18

ELECTROCHEMICAL METHOD FOR CORROSION PROTECTION OF STEEL
FTD-TT-64-21/1&2 N64-23315 16-18

CORROSION AND CORROSION PREVENTION FOR MATERIALS IN HYDROCHLORIC ACID AND OTHER CORROSIVE ENVIRONMENTS
FTD-TT-63-1069/1&2 N64-24266 17-07

USE OF RUBBER PROTECTIVE COATINGS ON METAL TO PREVENT CORROSION BY HYDROCHLORIC ACID N64-24271 17-07

PAINTS AS PROTECTIVE COATING OF MASONRY AGAINST CORROSION BY HYDROCHLORIC ACID ATMOSPHERES N64-24274 17-19

INHIBITORS TO REDUCE OR PREVENT CORROSION OF METAL BY HYDROCHLORIC ACID N64-24275 17-07

NONMETALLIC STRUCTURAL MATERIALS FOR PROTECTION AGAINST CORROSION BY HYDROCHLORIC ACID N64-24276 17-19

TREATMENT OF HOT-SPRING WATER WITH SOLID INHIBITORS TO REDUCE SCALING AND CORROSION N64-24278 17-07

TITANIUM ALLOYS - USES AS NONCORROSIVE MATERIAL
JPRS-24859 N64-25853 18-18

FADLITE FOR CORROSION PROTECTION
FTD-TT-63-1169/1&2&364 N64-26036 18-19

CORROSION AND PROTECTION OF METALLIC STRUCTURAL MATERIALS
FTD-TT-63-672/1&2 N64-27087 19-18

PREVENTION OF BERYLLIUM METAL CORROSION BY HIGH TEMPERATURE WATER
BBC-TR-335 N64-28002 20-18

VEHICLE CORROSION PREVENTIVES FIELD TEST IN DETROIT AREA - AIRLESS SPRAY UNIT
RIA-64-661 N64-32167 23-17

EFFECTIVENESS OF SODIUM, CALCIUM, AND LEAD FATTY ACID PAINTS AGAINST CORROSION
ONRL-47-64 N64-32540 23-18

CORROSION RESISTANCE
COMPARISON OF HEAT AND CORROSION RESISTANCE OF COATINGS ON MAGNESIUM ALLOY
A731 N64-22577 15-18

DRY FILM LUBRICANT EFFECT ON CORROSION RESISTANCE OF COATED AND UNCOATED ALLOYS
A733 N64-22595 15-17

EFFECTS OF CADMIUM PLATE SUBSTRATE ON WEAR LIFE AND CORROSION RESISTANCE OF DRY FILM LUBRICANT COATED BEARINGS
A754 N64-22596 15-17

CORROSION RESISTANCE AND PROTECTION OF MAGNESIUM-LITHIUM ALLOYS N64-23513 16-18

EFFECT OF SALT SPRAY ON CORROSION OF FASTENERS
A734 N64-24208 16-17

ALLOYS WITH CORROSION RESISTANCE TO HYDROCHLORIC ACID AND SODIUM CHLORIDE SOLUTIONS N64-24268 17-07

PLASTICS WITH RESISTANCE TO HYDROCHLORIC ACID ATTACK N64-24269 17-07

GRAPHITE AS CORROSION RESISTANT MATERIAL FOR HANDLING HYDROGEN CHLORIDE GAS OR SOLUTIONS N64-24272 17-18

RESISTANCE OF VITREOUS ENAMELS /CERAMIC COATINGS/ TO CORROSION AND LEACHING BY HYDROCHLORIC ACID N64-24273 17-19

MATERIALS RESISTANT TO CORROSION BY HYDROCHLORIC ACID AND MECHANISM OF DISSOLUTION OF IRON IN HYDROCHLORIC ACID N64-24277 17-07

CORROSION RESISTANCE OF CHROMIUM-STEEL TO MERCURY IN RANKINE CYCLE POWER SYSTEM
NASA-CR-54066 N64-25067 17-06

EXPERIMENTAL AIR DRY CORROSION RESISTANT COATINGS FOR FUEL TANKS
CCL-160 N64-25353 17-26

CORROSION-RESISTANCE, WELDABILITY, HEAT TREATMENT, AND DIFFUSION RATE TESTING OF ALUMINUM-MAGNESIUM-SILICON, ALUMINUM-MAGNESIUM, AND ALUMINUM-ZINC-MAGNESIUM ALLOYS
JPRS-25642 N64-27265 19-18

ALLOYING, COATING, AND CORROSION RESISTANCE OF REFRACTORY ELEMENTS AT ELEVATED TEMPERATURES N64-27589 19-18

CORROSION RESISTANCE AND MECHANICAL PROPERTIES OF STAINLESS STEEL N64-29046 21-18

COMPARATIVE CORROSION RESISTANCE OF CHROMIUM AND NICKEL BASE TURBINE-BLADE ALLOYS TO EXHAUST GASES CONTAINING SULFUR, VANADIUM, AND SODIUM
ARL/ME-247 N64-30250 22-18

REACTOR TECHNOLOGY - FUEL ELEMENTS, RADIOISOTOPE AND RADIATION APPLICATIONS, CORROSION RESISTANCE, AND GAS COOLING
BMI-1681/DEL./ N64-31375 23-25

CORRUGATION
COMPLIANCE OF CORRUGATED SHAPES AND INFLUENCE OF HOOP STRESS
RSIC-100 N64-12275 03-13

SHEAR STIFFNESS OF CORRUGATED WEBS
ARC-R&M-3342 N64-16533 08-33

RELATIVE STRENGTH OF DOUBLE REVERSED CORRUGATED ALUMINUM CORES AND ALUMINUM HONEYCOMBS
ERR-FW-197 N64-16629 08-33

THREE-LAYER AXISYMMETRIC HONEYCOMB AND CORRUGATED SHELLS N64-24633 17-34

CONFIGURATION OF STELLARATOR CORRUGATION FIELD TO REDUCE LOCALIZED INSTABILITIES
MATT-281 N64-28505 20-24

PARTICLE ORBITS IN HELIOTRON MAGNETIC FIELD - PLASMA CONFINEMENT IN CORRUGATED MAGNETIC FIELD
IPPJ-21 N64-33055 24-24

CORUNDUM
CF ABRASIVE
CF REFRACTORY MATERIAL
PROPERTIES, FABRICATION METHODS, AND ENGINEERING APPLICATIONS OF SINTERED CORUNDUM
FTD-TT-62-912/1&2 N64-22388 15-18

COSMIC NOISE
MORPHOLOGY OF VISIBLE AURORA AND ITS RELATION TO MAGNETIC VARIATIONS AND COSMIC NOISE ABSORPTION

AFCRL-64-570 N64-26911 18-12

HIGH LATITUDE GEOPHYSICAL DATA - COSMIC NOISE LEVEL AT 30 MC/S
UAG-C-34 N64-30803 22-12

IONOSPHERIC ABSORPTION MEASUREMENT BY COSMIC NOISE METHOD AT TWO FREQUENCIES N64-32918 24-15

COSMIC RADIATION
SA CERENKOV RADIATION
SA PRIMARY COSMIC RADIATION
SA SOLAR COSMIC RAY
FRAGMENTATION OF HEAVY COSMIC RAY NUCLEI IN LIGHT ELEMENTS N64-10362 01-28

ASYMPTOTIC DIRECTION OF APPROACH OF VERTICALLY INCIDENT COSMIC RAYS IN GEOMAGNETIC FIELD SIMULATION - COMPUTER CALCULATION
AECL-1824 N64-10377 01-28

IONIZATION CHAMBER FOR PRECISE DOSIMETRY OF ENVIRONMENTAL GAMMA AND COSMIC RADIATION
HASL-108 N64-10409 01-10

COSMIC RADIATION HAZARD FOR MANNED SPACE FLIGHT - PHARMACOLOGICAL PROTECTION, PHYSICAL & BIOLOGICAL DOSIMETRY N64-10514 01-16

EARTH SATELLITE STUDY OF ATMOSPHERIC AND IONOSPHERIC COMPOSITION, RADIATION BELTS AND COSMIC RADIATION N64-10796 02-28

OPTICAL PUMPING OF GASES, ARTIFICIALLY ACCELERATED PARTICLES, & COSMIC RADIATION
JPRS-19547 N64-11070 02-23

RECIPROCAL EFFECTS OF ARTIFICIALLY ACCELERATED ELEMENTARY PARTICLES IN THE GEV RANGE AND COSMIC RADIATION N64-11072 02-23

DESCRIPTION OF EXPLORER XIV/DELTA VEHICLE COMPLEX FOR OBSERVATION OF COSMIC RADIATION, SOLAR WIND, & SOLAR PARTICLE FLUX N64-11198 02-29

ESTIMATES OF RADIATION DOSES IN SPACE FROM VAN ALLEN BELT RADIATION, GALACTIC COSMIC RADIATION, & SOLAR COSMIC RADIATION N64-11648 03-28

RADIOBIOLOGICAL PROBLEMS DUE TO COSMIC RADIATION EXPOSURE DURING SPACE FLIGHT - BIBLIOGRAPHY N64-11668 03-16

INFLUENCE OF SPACE FLIGHT CONDITIONS INCLUDING COSMIC RADIATION ON SPRING ONION & NUTMEG FLOWER SEEDS N64-11683 03-16

BIOLOGICAL EFFECT OF COSMIC AND SOLAR RADIATIONS ON HUMAN BODY AT HIGH ALTITUDES N64-11700 03-16

MOTION OF LOW RIGIDITY COSMIC RAYS IN DIPOLE FIELD - GEOMAGNETIC AND EXTERNAL FIELDS N64-12696 04-28

IMPROVING MAGNETIC SHIELDING OF SPACE VEHICLES AGAINST CHARGED-PARTICLE COSMIC RADIATION
ERR-FW-210 N64-12926 04-09

BALLOON-FLIGHT OBSERVATIONS OF SOLAR COSMIC RAY OUTBURSTS
CR-55, SUPPL. N64-12954 04-28

ATMOSPHERIC ELECTRICITY FROM ION AND ELECTRON REACTIONS WITH COSMIC RADIATION ABOVE EXCHANGE LAYER
NASA-TN-D-2092 N64-12960 04-12

SOLAR WIND VELOCITY CORRELATION WITH GEOMAGNETIC, SOLAR AND COSMIC RAY ACTIVITY
NASA-CR-55151 N64-13184 04-28

MARINER II SOLAR-WIND VELOCITY DATA AND ITS CORRELATION WITH COSMIC-RAY VARIATIONS AND SOLAR & GEOMAGNETIC ACTIVITY
NASA-CR-53027 N64-13282 04-28

MUON FLUX LEAVING EARTH SURFACE AFTER PRODUCTION BY COSMIC RAY NEUTRINOS
NEVIS-115 N64-14048 05-23

COSMIC RAYS FROM SUPERNOVA STARS
UCRL-7551 N64-14061 05-28

COSMIC RAY HAZARDS IN SOLAR SYSTEM
AIAA PAPER-64-66 N64-14065 05-28

BIBLIOGRAPHY OF ELECTROMAGNETIC INTERACTION, MESON ATOMIC & MOLECULAR STRUCTURE, MESON-NUCLEON INTERACTION, COSMIC RAYS, AND MESON BEAMS
BNL-809/L-342/ N64-14757 06-23

COSMIC & SOLAR ELECTROMAGNETIC AND CORPUSCULAR RADIATION
NASA-CR-55438 N64-14868 06-28

COSMIC RADIATION N64-15292 07-28

USSR UNDERWATER TELEVISION EQUIPMENT AND COSMIC RAY STUDY
JPRS-23392 N64-15713 07-01

COSMOPHYSICAL AND NUCLEAR TRENDS IN COSMIC RAY STUDY N64-15715 07-28

LIFE IN SPACE ENVIRONMENT, COSMIC RADIATION, & MANNED SPACEFLIGHT REPORTS
FTD-TT-62-1518/1&2 N64-16351 08-01

DETECTION AND MEASUREMENT OF COSMIC RADIATION IN SPACE N64-16354 08-28

BIOLOGICAL EFFECTS OF GALACTIC COSMIC RADIATION
RM-3043-PR N64-16474 08-28

HYDROGEN ATOM, GASEOUS DIFFUSION, COSMIC RAY, SCINTILLATION, AND WIND DISTRIBUTION STUDIES
ANL-6769 N64-17107 09-23

COSMIC-RAY NEUTRON BACKGROUND MEASUREMENT N64-17110 09-28

EDGE OF POLAR PLATEAU FOR GALACTIC COSMIC RAYS AND THEIR CHARGED ALBEDO
NASA-TN-D-2248 N64-17828 09-28

INTENSITIES AND ENERGIES OF SOLAR COSMIC RAY PARTICLES DETECTED NEAR EARTH N64-17891 10-28

EDGE OF POLAR PLATEAU FOR GALACTIC COSMIC RAYS AND THEIR CHARGED ALBEDO N64-18418 10-28

PROTON AND ELECTRON EMISSION COMPONENTS OF COSMIC RAYS
NASA-CR-53589 N64-18433 10-28

DETECTION OF GALACTIC X-RAY EMISSION FROM COSMIC SOURCES N64-19262 11-05

CHEMICAL ELEMENT FORMATION DUE TO COSMIC RADIATION N64-19461 12-07

SOLAR WIND, MAGNETIC FIELDS, COSMIC RAYS, AND DISTRIBUTION OF INTERPLANETARY MATTER
NASA-CR-53732 N64-19571 12-28

EFFECTS OF COSMIC RAYS ON METEORITES - STUDY OF FOSSIL RECORD OF COSMIC RADIATION N64-19585 12-28

GALACTIC AND EXTRAGALACTIC ORIGINS FOR COSMIC RADIATION
NASA-CR-53900 N64-19945 12-07

SPECTRUM AND INTENSITY CHANGES OF COSMIC RADIATION AND SOLAR PROTON FLUX DURING MAXIMUM SOLAR ACTIVITY
AFOSR-64-0632 N64-20471 13-07

HIGH ENERGY COSMIC RAY SPECTRUM & COMPOSITION
NASA-CR-56025 N64-20590 13-07

SPECTRAL RADIATION VARIATIONS DURING COSMIC RAY STORMS
AFCRL-64-395 N64-21082 14-07

NUCLEAR COMPONENT OF COSMIC RAYS - SOVIET SATELLITE AND ROCKET INVESTIGATION

JPRS-25029 N64-21614 15-28

SOLAR ACTIVITY - CLOUD CHAMBER RESEARCH OF HIGH ENERGY COSMIC RAY REACTIONS
AD-431599 N64-21676 15-28

CHARGED PARTICLES & COSMIC RADIATION IN EARTHS UPPER ATMOSPHERE
FTD-TT-64-90/1&2&4 N64-22027 15-29

EARTH SATELLITE MEASUREMENT OF CHARGED PARTICLE TRACKS TO STUDY COSMIC RADIATION INTENSITY
N64-22032 15-28

DIURNAL VARIATION OF NUCLEON AND MESON COMPONENTS DURING COSMIC RAY STORMS
AFCRL-64-403 N64-22301 15-12

EQUATORIAL LOCI OF MAGNETIC FIELD OF EARTH AND COSMIC RAY PARAMETERS
AFCRL-64-174 N64-22609 15-12

PENETRATING COSMIC RADIATION FOR DETERMINATION OF MEAN ROCK-DENSITY VALUES
JPRS-25104 N64-22797 16-28

NUCLEAR EMULSION, SCINTILLATION PHOTODOSIMETER, AND X-RAY FILM FOR MEASUREMENT OF COSMIC RADIATION DOSE IN VOSTOK III AND IV SPACECRAFT
NASA-TT-F-8824 N64-22937 16-14

SATELLITE MEASUREMENTS OF CHARGED PARTICLES FOR COSMIC RADIATION STUDY IN IONOSPHERE
NASA-TT-F-8831 N64-22939 16-28

INCREASE IN COSMIC RAY INTENSITY IN HARD COMPONENT DURING SMALL CHROMOSPHERIC FLARES ON SUN
NASA-TT-F-9005 N64-23054 16-28

DETECTOR ARRAY FOR COSMIC RAY INVESTIGATIONS OF PRODUCTION, NATURE, AND INTERACTION OF HIGH ENERGY PARTICLES
AROD-2427-1 N64-23138 16-23

COSMIC RAY INTENSITY VARIATION DURING 1963
TN-3 N64-23214 16-28

COSMIC RADIATION EFFECT ON ORGANISMS AND DEVELOPMENT OF PROTECTIVE MEASURES
FTD-TT-64-33/1&2&4 N64-23335 16-16

BIOLOGICAL EFFECT OF COSMIC RADIATION AND RADIATION PROTECTION MEASURES N64-23744 16-16

COSMIC RADIATION, RADIO ASTRONOMY, METEOROLOGY, THERMAL BALANCE OF EARTH, AND SOLAR SAIL STUDY USING SATELLITES
FTD-TT-64-499/1&2&4 N64-23852 16-29

COSMIC RAY HYDROGEN AND HELIUM NUCLEI DURING SOLAR QUIET TIME
NASA-RP-203 N64-24083 16-29

COSMIC RADIATION, SOLAR CORPUSCULAR STREAMS, AND MAGNETIC STORMS
NASA-TT-F-127 N64-24422 17-28

INCREASE IN COSMIC RAY INTENSITY AT FORBUSH EFFECT MINIMUM N64-24423 17-28

ENERGY SPECTRA OF COSMIC RAY VARIATIONS DURING MAGNETIC STORMS N64-24424 17-28

COSMIC RAY EFFECTS PRIOR TO MAGNETIC STORMS N64-24425 17-28

VARIATIONS OF COSMIC RAY INTENSITY, EARTH MAGNETIC FIELD, AND AURORAS DURING 25 MARCH 1958 MAGNETIC STORM N64-24427 17-28

DECREASE OF COSMIC RAY INTENSITY PRIOR TO MAGNETIC STORM WITH FORBUSH EFFECT N64-24428 17-28

VARIATIONS IN COSMIC RAYS DURING MAGNETIC STORM OF MID-MAY 1959 N64-24429 17-28

EFFECT OF SOLAR CORPUSCULAR STREAM MAGNETIZED ENVELOPE ON COSMIC RAYS N64-24431 17-28

ROLE OF EARTH IN COSMIC RAY ABSORPTION, CREATION OF FORBUSH TYPE EFFECTS, AND IN 27-DAY AND 11-YEAR VARIATIONS N64-24432 17-28

COSMIC RAY VARIATIONS CAUSED BY EXPANDING TURBULENT MAGNETIZED CLOUD N64-24433 17-28

EFFECT OF SMALL SOLAR FLARES ON INTENSITY OF NEUTRON COMPONENT OF COSMIC RAYS
N64-24434 17-28

INCIDENCE ZONES AND ENERGY SPECTRA OF COSMIC RAY BURST OF 4 MAY 1960 - SOLAR ACTIVITY EFFECT
N64-24436 17-28

COSMIC RAY INTENSITY INCREASES CONNECTED WITH CHROMOSPHERIC FLARES N64-24437 17-28

TWENTY-SEVEN DAY VARIATIONS IN COSMIC RAYS IN STRATOSPHERE FROM JULY 1957 TO FEBRUARY 1958
N64-24438 17-28

27-DAY VARIATIONS OF COSMIC RAYS AND SOLAR ACTIVITY FROM JULY TO DECEMBER 1957
N64-24439 17-28

27-DAY VARIATION IN HARD COMPONENT COSMIC RAY INTENSITY DURING SOLAR ACTIVITY MINIMUM
N64-24440 17-28

COSMIC RAY VARIATIONS DUE TO ASYMMETRIC SOLAR WIND N64-24441 17-28

DIURNAL VARIATION OF COSMIC RAYS USING CROSSED TELESCOPE OBSERVATIONS N64-24442 17-28

SOLAR DIURNAL VARIATIONS IN COSMIC RAYS DURING YEAR 1954 N64-24443 17-28

SOLAR DIURNAL VARIATIONS IN COSMIC RAY INTENSITY FROM SURFACE AND BELOW GROUND MEASUREMENTS
N64-24444 17-28

SPURIOUS DIURNAL VARIATIONS AND ANISOTROPY OF COSMIC RAYS DURING MAGNETIC STORMS
N64-24445 17-28

COSMIC RAY ANISOTROPY IN SOLAR CORPUSCULAR STREAMS
N64-24446 17-28

LUNAR DIURNAL VARIATION OF COSMIC RAYS
N64-24447 17-28

GEOPHYSICAL STUDIES DURING INTERNATIONAL QUIET SUN YEARS - METEOROLOGY, GEOMAGNETISM, IONOSPHERE, AURORA, RADIO ASTRONOMY, AND COSMIC RADIATION ELECTRONIC EQUIPMENT INTERFERENCE CHARACTERISTICS
N64-24870 17-05

ORIGIN OF COSMIC RAYS IN SUPERNOVAE
NRL-5951 N64-25333 17-28

CHARGE AND ENERGY SPECTRA OF PRIMARY AND SECONDARY COSMIC RAYS WITH CHARGE LOWER THAN 3 AT 46 DEGREE GEOMAGNETIC LATITUDE
N64-25824 17-28

COSMIC RAYS
NASA-TT-F-126 N64-25926 18-28

RECENT CONCEPTS OF VARIATIONS OF COSMIC RAYS
N64-25927 18-28

VARIATIONS OF COSMIC RAYS AND CONNECTION WITH ASTROPHYSICAL AND GEOPHYSICAL PHENOMENA
N64-25928 18-28

STANDARD CUBICAL TELESCOPE FOR REGISTERING COSMIC RAYS N64-25929 18-15

AZIMUTHAL TELESCOPE FOR INVESTIGATION OF VARIATIONS OF COSMIC RAYS DEPENDENT ON DIRECTION OF PRIMARY RADIATION N64-25930 18-15

REGISTRATION OF INTENSITY OF COSMIC RADIATION BY PLASTIC SCINTILLATORS N64-25931 18-15

RADIOSONDE FOR MEASURING INTENSITY OF COSMIC RAYS IN STRATOSPHERE N64-25932 18-32

COSMIC RAY VARIATION AT 9- TO 12-KM ALTITUDE
N64-25933 18-28

STRATOSPHERIC INVESTIGATION OF COSMIC RAY INTENSITY AT YAKUTSK N64-25934 18-28

INDUCING METEOROLOGICAL CORRECTIONS INTO COMSIC RAY INTENSITY N64-25935 18-28

COSMIC RAY DEPENDENCY ON ATMOSPHERIC PRESSURE - BAROMETRIC COEFFICIENT OF NEUTRON COMPONENT
N64-25936 18-28

METEOROLOGICAL COSMIC RAY EFFECT BELOW GROUND
N64-25937 18-28

EMPIRICAL DETERMINATION OF TEMPERATURE EFFECT FOR HARD COMPONENT OF COSMIC RAYS OVER HEISS ISLAND
N64-25938 18-28

COUPLING COEFFICIENTS FOR PRIMARY AND SECONDARY VARIATION OF COSMIC RAYS IN HIGH ENERGY REGION
N64-25940 18-28

EFFECT OF CHANGES IN SOLAR ACTIVITY ON COUPLING COEFFICIENTS BETWEEN PRIMARY & SECONDARY COSMIC RAY VARIATIONS N64-25941 18-28

HIGH ENERGY COSMIC RADIATION PARTICLES
NASA-RP-260 N64-26079 18-28

COSMIC RAY INTENSITY VARIATIONS IN STRATOSPHERE CAUSED BY CHROMOSPHERIC SOLAR FLARES
JPRS-25641 N64-26085 18-28

MEASUREMENT OF COSMIC RAY NEUTRON FLUX AT 45-DEG GEOMAGNETIC LATITUDE
AFCRL-64-487 N64-26178 18-28

INTENSITY OF HIGH ENERGY COSMIC RAY MUONS IN EARTH ATMOSPHERE
NASA-RP-270 N64-26407 18-28

SOLAR AND GEOPHYSICAL ASPECTS OF COSMIC RADIATION AND MAGNETOHYDRODYNAMICS - BIBLIOGRAPHY
AFCRL-63-893 N64-26717 18-28

SOVIET DEEP SPACE PROBE MARS I - COSMIC RADIATION AND MICROMETEORITE DENSITY MEASUREMENTS
FTD-TT-64-86/1&2 N64-26728 18-32

COSMIC RADIATION AND NEAR EARTH SPACE ENVIRONMENT - BIBLIOGRAPHY
SB-63-71 N64-26822 18-28

BIBLIOGRAPHY ON COSMIC RADIATION
N64-27190 19-28

PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT CONDITIONS - COSMIC RADIATION, WEIGHTLESSNESS, & OXYGEN SUPPLY
JPRS-25844 N64-27630 19-16

RADIOBIOLOGICAL RESEARCH OF COSMIC RADIATION EFFECTS DURING SPACE FLIGHTS N64-27631 19-16

COSMIC RAY ANISOTROPY
NASA TN-D-2404 N64-27664 19-28

COSMOLOGY - ORIGIN OF COSMIC RAYS
N64-28396 20-29

COSMIC RAY INTENSITY FLUCTUATIONS IN STRATOSPHERE CAUSED BY SOLAR ACTIVITY
NASA-TT-F-9027 N64-28826 20-28

AIRGLOW, IONOSPHERE, AURORA, GEOMAGNETISM, COSMIC RAYS, AND SOLAR ACTIVITY DATA RECEIVED BY WDC-A FROM 1 JULY 1957 TO 31 DECEMBER 1963
N64-28976 20-12

COSMIC RAY ANALYSIS FROM COSMOS IV AND VII SATELLITE MEASUREMENTS - COSMIC RAY EQUATOR
N64-29086 21-28

COSMIC RADIATION DOSE RECEIVED BY COSMONAUTS ABOARD VOSTOK V AND VI SPACECRAFT
N64-29089 21-28

CHARGED PARTICLE RESEARCH - TRAPPED VAN ALLEN RADIATION AND INTERPLANETARY COSMIC RAYS
N64-29400 21-12

MAGNETIC FIELD AS PROTECTIVE SHIELD FROM COSMIC RAY SHOWERS IN INTERPLANETARY SPACEFLIGHT
FTD-TT-63-760/1&2 N64-29587 21-34

MEASUREMENT OF PARTICLES PRODUCED IN HIGH ENERGY INTERACTIONS, AND TEMPORAL AND SPATIAL VARIATIONS OF COSMIC RAYS WITH NEUTRON MONITORS
AD-601938 N64-30484 22-23

CERENKOV SCINTILLATION COUNTER MEASUREMENTS OF INTENSITY AND MODULATION OF LOW RIGIDITY COSMIC RAYS AND GEOMAGNETIC CUTOFF
NASA-RP-309 N64-31570 23-28

NUCLEAR EMULSION OF LOW-ENERGY GALACTIC COSMIC-RAY HYDROGEN AND HELIUM NUCLEI
NASA-RP-336 N64-31720 23-28

COSMIC RADIATION INTENSITY DATA - BIHOURLY NEUTRON AND MESON INTENSITY N64-32020 23-12

SPARK CHAMBER AND DEFLECTION MAGNET TO PHOTOGRAPH TRACKS OF COSMIC RAY ELECTRONS AT BALLOON ALTITUDES N64-32224 23-15

GAS DISCHARGE COUNTER FOR CHARGED COSMIC RADIATION PARTICLES
FTD-MT-64-45 N64-32240 23-15

POSITRON-ELECTRON RATIO IN PRIMARY COSMIC RADIATION MEASURED AS FUNCTION OF ENERGY - COSMIC RAY ORIGIN N64-33036 24-28

CONFERENCE ON COSMIC RAYS AND NEUTRINOS
JPRS-27105 N64-33059 24-28

OBSERVATIONS ON SOLAR AND COSMIC RADIATION INTENSITY, PARTICLES AND PLASMA LAYER DISTRIBUTION, AND MAGNETIC FIELD VARIATIONS FROM MARS I SPACECRAFT
FTD-TT-64-237/1&2&3&4 N64-33221 24-29

COSMIC RADIATION FOR STUDY OF GEOLOGICAL FORMATIONS AND ROCK DENSITY DETERMINATIONS
NASA-TT-F-8975 N64-33383 24-29

COSMOLOGY
SA GALACTIC EVOLUTION
GEOMETRIC REPRESENTATION OF SPACE - COSMOLOGY
N64-13923 05-23

ELECTRODYNAMICS AND PLASMA PHYSICS IN COSMOLOGY AND ASTROPHYSICS
NASA-TT-F-175 N64-17162 09-24

PROBLEMS OF COSMOGONY - COLLECTION OF ARTICLES ON ASTRONOMICAL PHENOMENA
JPRS-24435 N64-19326 12-28

COSMOLOGY - PLANETARY ORIGINS, STELLAR EVOLUTION, VARIABLE STARS, MAIN SEQUENCE STARS, SOLAR CORONA SPECTRA, AND ELEMENT FORMATION
JPRS-24358 N64-19451 12-05

COSMOGONY - RESEARCH AND DEVELOPMENT
JPRS-24735 N64-21126 14-05

ADVANCES AND PROBLEMS OF COSMOGONY - FORMATION AND INTERNAL STRUCTURE OF STARS, ATMOSPHERE OF MOON, AND PROCESSES IN EARTH N64-21127 14-05

COSMIC RESEARCH
FTD-TT-63-968/1&2&4 N64-21626 15-01

STEADY STATE AND EVOLUTION THEORIES IN COSMOLOGY
NASA-CR-55177 N64-22765 16-05

COSMOLOGY AND CELESTIAL MECHANICS
JPRS-24851 N64-23177 16-23

SEVEN BASIC ELEMENTS IN UNIVERSE - COSMOLOGY
FTD-TT-62-960/1&2 N64-23389 16-23

COSMOGONY & ASTRONOMY N64-24665 17-05

COSMOLOGY - STELLAR AND PLANETARY EVOLUTION

JPRS-24734 N64-24759 17-29

COSMOLOGICAL HYPOTHESES ON ORIGIN OF SOLAR SYSTEM
N64-24760 17-29

COSMOLOGICAL HYPOTHESIS CONCERNING ORIGIN OF PLANETS FROM MASSIVE PROTOPLANETS OF GASEOUS COMPOSITION N64-24761 17-29

COSMOLOGY - PROCESS OF FORMATION OF TERRESTRIAL PLANETS N64-24766 17-29

FORMATION OF SOLAR SYSTEM THROUGH NUCLEOGENESIS - EARTH, SUN, AND METEORITE CHEMICAL COMPOSITION DIFFERENCES DUE TO COSMOLOGICAL DEVELOPMENT
N64-24769 17-29

EVOLUTION OF STARS AND GALAXIES
NASA-TT-F-8697 N64-26052 18-05

RADIAL DISCRETIZATION IN SPHERICAL GALAXIES - COSMOLOGY
RM-4110-RC N64-26425 18-05

ASTRONOMY, IONOSPHERIC AND COSMIC PHYSICS, BALLOONS, ROCKETS, AND SATELLITES
NASA-TT-F-9023 N64-27137 19-29

ORGANIC CHEMISTRY AND SYNTHESIS OF BIOCHEMICAL COMPOUNDS FOUND IN UNIVERSE N64-27820 19-07

PROBLEMS OF COSMOGONY
JPRS-25359 N64-28376 20-29

COSMOGONY OF PLANETARY SYSTEM AND EVOLUTION OF SUN
N64-28378 20-29

BILATERAL INTERACTION OF STARS WITH DIFFUSE MATTER AND SIGNIFICANCE IN COSMOGONIC PROCESS
N64-28382 20-29

REVIEW OF COSMOGONIC THEORIES PREVALENT IN WESTERN EUROPE AND AMERICA N64-28383 20-29

PROBLEMS IN COSMOLOGY - CONFERENCE
N64-28394 20-29

COSMOLOGY - ORIGIN OF COSMIC RAYS
N64-28396 20-29

COSMIC RESEARCH
FTD-TT-64-547/1&2&4 N64-29076 21-01

RELATIVISTIC THEORY FOR DISCRETIZATION IN GALACTIC STRUCTURE & COSMOLOGY
RM-3990-RC N64-30039 21-29

SPACE SCIENCE AND COSMIC RESEARCH
FTD-TT-770/1&2 N64-31522 23-29

COSMOS I SATELLITE
IONOSPHERIC PARAMATERS FROM PHASE DIFFERENCE AND ROTATION OF POLARIZATION PLANE OF COHERENT SIGNALS FROM COSMOS I & COSMOS II SATELLITES
N64-10277 01-12

SYNOPTIC VARIATIONS AND VERTICAL PROFILES OF IONOSPHERE IRREGULARITIES REPORTED BY SPUTNIK III AND COSMOS I SATELLITES N64-10423 01-12

RADAR TRACKING DATA OF SOVIET SATELLITES COSMOS I AND COSMOS II - COMPARISON OF IONOSPHERIC DATA WITH VERTICAL SOUNDING DATA
E-T-R-64-20 N64-28280 20-12

DIMENSIONS OF IONOSPHERIC IRREGULAR FORMATIONS BY OBSERVATIONS ON COSMOS I, II, AND XI SATELLITES IN COHERENT FREQUENCIES
NASA-TT-F-8945 N64-30838 22-12

MEASUREMENT OF ELECTRON DENSITY IN IONOSPHERE FROM OBSERVATION OF FARADAY EFFECT ON SIGNALS FROM COSMOS I, COSMOS II, AND EXPLORER SATELLITES
NASA-TT-F-8958 N64-30851 22-12

COSMOS II SATELLITE
IONOSPHERIC PARAMATERS FROM PHASE DIFFERENCE AND ROTATION OF POLARIZATION PLANE OF COHERENT SIGNALS FROM COSMOS I & COSMOS II SATELLITES
N64-10277 01-12

RADAR TRACKING DATA OF SOVIET SATELLITES COSMOS I AND COSMOS II - COMPARISON OF IONOSPHERIC DATA WITH VERTICAL SOUNDING DATA
E-T-R-64-20 N64-28280 20-12

ALTITUDE DISTRIBUTION OF CHARGED PARTICLES IN IONOSPHERE FROM ION TRAP EXPERIMENTS ON COSMOS II SATELLITE
FTD-MT-64-53 N64-30152 21-12

DIMENSIONS OF IONOSPHERIC IRREGULAR FORMATIONS BY OBSERVATIONS ON COSMOS I, II, AND XI SATELLITES IN COHERENT FREQUENCIES
NASA-TT-F-8945 N64-30838 22-12

MEASUREMENT OF ELECTRON DENSITY IN IONOSPHERE FROM OBSERVATION OF FARADAY EFFECT ON SIGNALS FROM COSMOS I, COSMOS II, AND EXPLORER SATELLITES
NASA-TT-F-8958 N64-30851 22-12

COSMOS III SATELLITE
GEOPHYSICAL AND ASTRONOMICAL CONTRIBUTIONS OF COSMOS III AND V SATELLITES
FTD-TT-62-1547/1&4 N64-16072 07-29

COSMOS III AND V SATELLITE ANALYSIS OF UPPER ATMOSPHERIC DENSITY
RAE-TRANS-1060 N64-20534 13-12

INVESTIGATION OF UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V - INSTRUMENTATION
N64-21632 15-12

INVESTIGATION OF UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V - LOW-ENERGY PARTICLES
N64-21633 15-28

INVESTIGATION OF UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V - HIGH ENERGY PARTICLES
N64-21634 15-28

INVESTIGATION OF UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V - DENSITY OF UPPER ATMOSPHERE AT HEIGHTS OF 200-230 KILOMETERS
N64-21635 15-12

CORPUSCULAR RADIATION MEASUREMENT IN UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V
FTD-TT-63-1019/1&2 N64-21965 15-12

INVESTIGATION OF UPPER ATMOSPHERE BY SATELLITES COSMOS III AND COSMOS V
NASA-TT-F-8565 N64-22931 16-13

COSMOS IV SATELLITE
RADIATION MEASUREMENTS IN SPACE OBTAINED BY COSMOS IV AND COSMOS VII SATELLITES PRIOR TO FLIGHT OF VOSTOK III & VOSTOK IV SPACECRAFT
N64-21640 15-29

SOFT CORPUSCULAR RADIATION IN EQUATORIAL LATITUDES MEASURED WITH SCINTILLATION COUNTER ABOARD COSMOS IV SATELLITE N64-23866 16-28

COSMIC RAY ANALYSIS FROM COSMOS IV AND VII SATELLITE MEASUREMENTS - COSMIC RAY EQUATOR
N64-29086 21-28

COSMOS V SATELLITE
ASTRONOMICAL OBSERVATIONS OF HUMANS DURING COSMOS SATELLITE FLIGHTS
JPRS-20212 N64-11221 02-29

GEOPHYSICAL AND ASTRONOMICAL CONTRIBUTIONS OF COSMOS III AND V SATELLITES
FTD-TT-62-1547/1&4 N64-16072 07-29

COSMOS III AND V SATELLITE ANALYSIS OF UPPER ATMOSPHERIC DENSITY
RAE-TRANS-1060 N64-20534 13-12

INVESTIGATION OF UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V - INSTRUMENTATION
N64-21632 15-12

INVESTIGATION OF UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V - LOW-ENERGY PARTICLES

N64-21633 15-28

INVESTIGATION OF UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V - HIGH ENERGY PARTICLES
N64-21634 15-28

INVESTIGATION OF UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V - DENSITY OF UPPER ATMOSPHERE AT HEIGHTS OF 200-230 KILOMETERS
N64-21635 15-12

CORPUSCULAR RADIATION MEASUREMENT IN UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V
FTD-TT-63-1019/1&2 N64-21965 15-12

INVESTIGATION OF UPPER ATMOSPHERE BY SATELLITES COSMOS III AND COSMOS V
NASA-TT-F-8565 N64-22931 16-13

DETECTION OF UPPER ATMOSPHERIC ELECTRONS WITH ENERGIES FROM 40 EV TO 5 KEV USING FLUORESCENT SCREEN INDICATOR ON COSMOS V SATELLITE
N64-29083 21-12

COSMOS VI SATELLITE
ASTRONOMICAL OBSERVATIONS OF HUMANS DURING COSMOS SATELLITE FLIGHTS
JPRS-20212 N64-11221 02-29

COSMOS VII SATELLITE
RADIATION MEASUREMENTS IN SPACE OBTAINED BY COSMOS IV AND COSMOS VII SATELLITES PRIOR TO FLIGHT OF VOSTOK III & VOSTOK IV SPACECRAFT
N64-21640 15-29

COSMIC RAY ANALYSIS FROM COSMOS IV AND VII SATELLITE MEASUREMENTS - COSMIC RAY EQUATOR
N64-29086 21-28

COSMOS XI SATELLITE
DIMENSIONS OF IONOSPHERIC IRREGULAR FORMATIONS BY OBSERVATIONS ON COSMOS I, II, AND XI SATELLITES IN COHERENT FREQUENCIES
NASA-TT-F-8945 N64-30838 22-12

COSMOS SATELLITE
INVESTIGATION OF IONOSPHERIC CHARGED PARTICLES - ELECTRON DENSITY CALCULATIONS FROM RADIO TRANSMISSIONS OF COSMOS SATELLITES
AID-P-64-9 N64-16461 08-08

RADIO TRANSMISSION AND GEOPHYSICAL STUDIES WITH COSMOS SATELLITES
AID-P-64-5 N64-16462 08-08

GEOGRAPHICAL DISTRIBUTION OF RADIATION INTENSITY IN BRAZILIAN MAGNETIC ANOMALY AREA FROM COSMOS SATELLITE DATA N64-31533 23-12

SPACE EXPLORATION - OBSERVATIONS FROM COSMOS SATELLITES, MARS I, AND VOSTOK SPACECRAFT
FTD-MT-63-345 N64-33704 24-28

COST ESTIMATE
COST ESTIMATION OF NASA PROGRAM FOR SPACE EXPLORATION
NASA-TM-X-51275 N64-11814 03-01

PHYSICS OF FUEL MANAGEMENT IN THE SENN REACTOR - COST ANALYSIS
NYO-9991 N64-14875 06-23

COSTS OF ROUND-TRIP REUSABLE EARTH-LUNAR TRANSPORTATION SYSTEMS
NASA-TM-X-51436 N64-15869 07-30

COST ANALYSIS OF BOOSTER COMBINATIONS FOR PLANETARY EXPLORATION
P-2769 N64-15918 07-31

COST ESTIMATE, LAUNCH COMPLEX 39 PNEUMATIC SYSTEM
NASA-TM-X-54645 N64-16706 08-10

COST ESTIMATION OF REMOVING SNOW, ICE, AND SLUSH FROM AIRPORT RUNWAYS
RD-64-28 N64-19095 11-10

COST ESTIMATION OF MANUFACTURING RELAY DEVICES
N64-19505 12-17

PRODUCTION COST ESTIMATION OF RELAYS
N64-19508 12-17

HIGH EFFICIENCY LOW COST SILICON SOLAR CELLS
QPR-6 N64-20110 13-06

DESIGNS FOR MICROMINIATURIZED ELECTRONIC EQUIPMENT TO MINIMIZE COSTS
QR-1 N64-20130 13-09

COST ESTIMATE, BUDGET APPROPRIATION, & MANAGEMENT PLANNING FOR NASA PROGRAM N64-20198 13-01

BUDGET APPROPRIATION, COST ESTIMATE, & MANAGEMENT PLANNING FOR NASA PROGRAM N64-20199 13-01

COST & PRICE ESTIMATE RELATING TO COMMUNICATIONS SATELLITES
P-2753-1 N64-20273 13-08

ASSEMBLY AND SCHEMATIC DRAWINGS, TEST DATA, AND PRODUCTION COST ESTIMATES OF CALIBRATOR FOR RADIATION METER N64-20530 13-15

WEAPONS SYSTEM COMMAND AND CONTROL SYSTEMS - DEPLOYMENT, RETALIATION, UNMANNED MISSILE SITES, AND WEAPON SYSTEMS COSTS N64-24854 17-20

FUNCTIONAL RELATIONSHIP BETWEEN PERFORMANCE AND COST OF LAUNCH VEHICLES
AIAA PAPER-64-276 N64-24962 17-31

SPACE PROGRAM - COST ESTIMATE
P-2858 N64-25185 17-01

COST ANALYSIS OF MULTI-PLATE ANTENNA ARRAYS
RAC-2135 N64-25404 17-08

COST ESTIMATE OF ONE-MAN SHUTTLE VEHICLE FOR SPACE TRANSFER AND MAINTENANCE
RTD-TDR-63-4057, ADDEND. N64-25872 18-01

VOLTAGE, CAPACITANCE, DUTY, LIFESPAN, AND INDUCTANCE EFFECTS ON COST AND SIZE OF CAPACITORS FOR ENERGY STORAGE APPLICATIONS
N64-27102 19-06

COST ESTIMATE OF LEAD ACID STORAGE BATTERIES
N64-27111 19-06

IBM 7090 AND 7094 PROGRAMS FOR COST ESTIMATES AND OPERATION OF COMMUNICATIONS SATELLITE SYSTEMS
NASA-CR-55888 N64-27262 19-10

BAYESIAN SINGLE SAMPLING ATTRIBUTE PLANS OBTAINED BY MINIMIZING AVERAGE COSTS AND ASSUMING DOUBLE BINOMIAL DISTRIBUTION
TR-5 N64-29606 21-20

ECONOMIC CONCEPTS AND PRINCIPLES OF QUALITY MANAGEMENT - COSTS, SUPPLY, AND DEMAND
SC-RR-64-1279 N64-30654 22-17

COST ESTIMATES AND OPERATING STANDARDS FOR MILITARY NUCLEAR POWERPLANTS
WL-TDR-64-25 N64-30749 22-06

COST ESTIMATE OF DIGITAL DATA COMMUNICATION SYSTEMS
RM-3766-PR N64-33232 24-01

COULOMB COLLISION
COULOMB INTERACTION OF ELECTRONS WITH IONS ON OPTIMUM COMPOSITION OF GASEOUS MIXTURE
FTD-TT-64-441/1&2&4 N64-22161 15-24

RUNAWAY ELECTRONS IN IDEAL LORENTZ PLASMA WHERE ELECTRONS EXPERIENCE COULOMB COLLISIONS WITH INFINITELY MASSIVE IONS ONLY
MATT-226 N64-32395 23-24

CONDUCTIVITY TENSOR DUE TO COULOMB INTERACTIONS IN STRONG MAGNETIC FIELD
ARL-63-90 N64-33444 24-24

COULOMB POTENTIAL
ZERO FIELD SPLITTING ONE AND TWO CENTER COULOMB TYPE INTEGRALS
NASA-CR-56782 N64-25508 17-20

COULOMETER
$ MEASURING APPARATUS

COUNTDOWN
SHIFT REGISTER AS COUNTDOWN TYPE OF FREQUENCY DIVIDER
NASA-CR-53207 N64-17206 09-20

COUNTER
SA CERENKOV COUNTER
SA GAS DISCHARGE COUNTER
SA GEIGER COUNTER
SA NEUTRON COUNTER
SA PROPORTIONAL COUNTER
SA SCINTILLATION COUNTER
ANALYSIS AND SYNTHESIS, WITH BOOLEAN ALGEBRA, OF TRANSITION-COUPLED ASYNCHRONOUS COUNTERS
NASA-CR-52688 N64-11119 02-20

EFFICIENCY DETERMINATION OF COINCIDENCE CIRCUITS FOR COUNTING SIMULTANEOUS EVENTS - INPUT SIGNAL DELAY VARIATION N64-12554 04-23

TRANSISTOR RING COUNTER FOR DIGITAL ELECTRONIC TIMERS & PROGRAMMERS
TR-1154 N64-12642 04-09

MATHEMATICS - CASCADED COUNTERS WITH FEEDBACK
NRC-467 N64-23105 16-20

CIRCUIT DESCRIPTION OF ADDING AND SUBTRACTING TRANSISTORIZED DECIMAL COUNTER WITH INDICATOR TUBE
BI-032 N64-26513 18-09

MICROCIRCUIT 75-COUNTER
NASA-CR-59000 N64-32490 23-09

COUNTERBALANCE SYSTEM
$ BALANCE
$ TEST EQUIPMENT

COUNTERMEASURE
APPLICATION OF STOCHASTIC SWITCHING PROCESS TO ELECTRONIC COUNTER-COUNTERMEASURE PROBLEMS
ESD-TDR-63-186 N64-13848 05-20

BIBLIOGRAPHY OF ELECTRONIC COUNTERMEASURES AND COUNTER-COUNTERMEASURES
SB-63-64 N64-22694 15-09

RADAR COUNTERMEASURE FACILITIES - PROTECTIVE COATINGS, ACTIVE ELECTRONIC COUNTERMEASURES, AND PASSIVE ELECTRONIC COUNTERMEASURES N64-24644 17-09

SEMICONDUCTOR JUNCTION MIXER DIODES FOR COUNTERMEASURES EQUIPMENT
M-102 N64-26323 18-09

ANNOTATED BIBLIOGRAPHY ON ELECTRONIC COUNTERMEASURES AND COUNTER-COUNTERMEASURES
SB-64-13 N64-32972 24-08

COUNTING RATE COMPUTER
CORRECTIONS FOR LONGEVITY COUNTING RATES OF TOTAL RADIOACTIVE SAMPLE BY COMPUTER
HW-76279 N64-14057 05-23

COUPLED MODE
COUPLED MODE THEORY FOR ADVANCED MICROWAVE APPARATUS
IR-7 N64-19962 12-09

MULTIPLE COUPLED LADDERS IN BACKWARD-WAVE OSCILLATORS AT MILLIMETER WAVELENGTHS N64-27997 20-09

COUPLED MODE THEORY FOR ADVANCED MICROWAVE DEVICES
T-G-200 N64-28915 20-23

LIE ALGEBRA THEORIES AND EFFECTS OF PERTURBING RANDOM COUPLING IN COUPLED MODE SYSTEMS
IR-6 N64-33786 24-20

COUPLING
SA ANTENNA COUPLER
SA THERMOCOUPLE

NUCLEAR MAGNETIC DOUBLE RESONANCE METHOD FOR DETERMINATION OF RELATIVE SIGNS OF SPIN-SPIN COUPLING CONSTANTS
NASA-CR-55096 N64-12127 03-23

EFFECT OF MATERIAL PROPERTIES ON COUPLING OF EXPLOSION ENERGY
AFSWC-TDR-63-47 N64-12813 04-19

INPUT AND OUTPUT COUPLING CAVITY STRUCTURE IN ELECTRON BEAM-HYDROGEN PLASMA SYSTEM N64-13794 05-24

LATERAL-DIRECTIONAL CONTROL CROSS-COUPLING EFFECTS AND HANDLING QUALITIES OF V/STOL AIRCRAFT
NRC-7778 N64-14203 06-22

COUPLING BETWEEN SOLAR WIND AND EXOSPHERE
NASA-CR-55603 N64-15531 07-28

THEORY OF SHIP MOTIONS - FORWARD SPEED AND CROSS-COUPLING IN ABSENCE OF NEGATIVE DAMPING
TRG-126-FR-A N64-15761 07-23

KINETIC THEORY OF WEAKLY COUPLED GASES - WEAK COUPLING EXPANSION TO HIGHER ORDERS - GAS-GAS REACTION
MATT-238 N64-16944 09-24

NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY - LONG RANGE PHOSPHORUS-HYDROGEN SPIN-SPIN COUPLING
AROD-2276-6 N64-17482 09-23

TABLES FOR DIPOLE TRANSITION PROBABILITIES IN LS-COUPLING
AFCRL-64-37 N64-18633 11-23

MATHEMATICAL MODELS FOR AXIAL OSCILLATIONS CAUSED BY ENGINE STRUCTURE COUPLING IN MISSILES
LMSC/A389580 N64-19076 11-30

FABRICATION AND PROPERTIES OF GALLIUM ARSENIDE ELECTROLUMINESCENT DIODE AND OPTICALLY COUPLED SILICON TRANSISTOR
AD-428185 N64-19812 12-25

MICROWAVE AND RADIO FREQUENCY INDUCTION COUPLED PLASMA TORCH N64-19833 12-24

STEADY STATE AND KINETIC BEHAVIOR OF SYSTEM OF LOOSELY COUPLED REACTOR CORES
LAMS-2967 N64-19908 12-23

HIGH SPEED TWO-DIMENSIONAL REACTING LAMINAR BOUNDARY LAYER WITH COUPLED PRESSURE INTERACTION
NASA-CR-53631 N64-19989 12-11

MATCHING OF WAVEGUIDE COUPLER FOR RADIO FREQUENCY SEPARATOR DEFLECTING STRUCTURE
CERN-64-14 N64-20620 13-09

COUPLING MECHANISM IN INJECTED-BEAM CROSSED FIELD AMPLIFIERS & REDUCTION OF NOISE
AD-431248 N64-21371 14-09

NUCLEAR QUADRUPOLE COUPLING OF ALUMINUM 27 IN SOLID ANHYDROUS ALUMINUM CHLORIDE N64-22078 15-07

PLASTIC BEARINGS WITH INVERTED FRICTION COUPLING
FTD-TT-63-242/1&2 N64-22189 15-19

ELECTROMAGNETIC COUPLING BETWEEN SINGLE-WIRE, TWO-WIRE, COAXIAL, AND SHIELDED TWISTED-PAIR CABLES N64-22817 16-09

DESIGN CONSIDERATIONS OF LARGE SPACE VEHICLES DUE TO AXIAL OSCILLATIONS CAUSED BY ENGINE-STRUCTURAL COUPLING N64-23161 16-33

HARMONIC ACTION ON SYSTEM OF TWO CIRCUITS COUPLED BY NONLINEAR CAPACITANCE N64-23798 16-09

HYDROGEN COUPLING IN METHYLENIMINO COMPOUNDS
NASA-CR-56464 N64-23932 16-23

CONFORMAL TRANSFORMATION IN SYNTHESIS OF LOSSLESS TWO-PORT COUPLING NETWORK
TR-7 N64-24079 16-09

STABILITY IN HIGH POWER TRAVELING-WAVE TUBE WITH COUPLED CAVITY STRUCTURES
RADC-TDR-64-172 N64-25237 17-09

PHOTOEMITTERS, PHOTODETECTORS, AND MICROCIRCUITS FOR OPTICAL INTERCONNECTION STUDY
OPR-3 N64-25344 17-25

COUPLING COEFFICIENTS FOR PRIMARY AND SECONDARY VARIATION OF COSMIC RAYS IN HIGH ENERGY REGION
N64-25940 18-28

EFFECT OF CHANGES IN SOLAR ACTIVITY ON COUPLING COEFFICIENTS BETWEEN PRIMARY & SECONDARY COSMIC RAY VARIATIONS N64-25941 18-28

DIPLEXER USING SIDE-WALL COUPLERS AND CUT-OFF GUIDE - COMMUNICATION SYSTEM
ESD-TDR-64-52 N64-25980 18-08

SEMICONDUCTOR SWITCHING AND LIMITING USING 3 DB SHORT SLOT /HYBRID/ COUPLERS
USAELRDL-TR-2409 N64-26557 18-09

SHELL MODE COUPLING - NATURAL FREQUENCIES, MODE SHAPES, AND SHELL VELOCITIES
U411-63-041 N64-26857 18-33

NEW WAY OF COUPLING TWO COMPLEMENTARY TRANSISTORS IN FLIP-FLOP CIRCUIT
E-T-SLOVAK-64-1 N64-28279 20-09

MATHEMATICAL ANALYSIS OF TOROIDAL SHELL AND ANNULAR PLATE COUPLING N64-28483 20-33

ELECTRIC WAVE PROPAGATION ON NONUNIFORM COUPLED TRANSMISSION LINES
MRC-376 N64-29029 21-09

AIRCRAFT RESPONSE IN ROLLING MANEUVERS INCLUDING INERTIAL CROSS-COUPLING EFFECTS OF LATERAL AND LONGITUDINAL MOTIONS
ARC-R&M-3349 N64-29330 21-04

GYROSCOPIC COUPLING FOR PLATFORM STABILIZATION
N64-30230 22-15

COUPLING RESISTANCE MEASUREMENT OF SLOW WAVE SYSTEMS BY DIELECTRIC PROBE N64-31361 23-09

MUTUAL COUPLING BETWEEN ELEMENTS OF WIDE APERTURE RADIO LOCATION ANTENNA ARRAY
RRL-246 N64-33234 24-08

COUPLING CONSTANT
DIPOLE MOMENT, QUADRUPOLAR COUPLING CONSTANTS, AND MICROWAVE SPECTRUM OF CHLOROBENZENE
NASA-CR-55415 N64-14865 06-07

COUPLING CONSTANTS IN BROKEN UNITARY SYMMETRY
TH-61 N64-26601 18-23

MICROWAVE SPECTRUM, BARRIER TO INTERNAL ROTATION, AND QUADRUPOLE COUPLING CONSTANTS OF CIS-1-CHLOROPROPYLENE
NASA-CR-58578 N64-29404 21-07

ELECTRON COUPLING OF NUCLEAR SPIN - TEMPERATURE DEPENDENCE OF COUPLING CONSTANT IN 2-FLUOROBENZOTRIFLUORIDES
TR-73 N64-33843 24-07

COURIER SATELLITE
COURIER COMMUNICATIONS SATELLITE PROGRAM
WDL-TR-1399 N64-14702 06-32

COVALENT BOND
MAGNETIC BREAKDOWN IN CRYSTALS, SPACE GROUP SYMMETRY, SPHERICAL HARMONICS, AND COVALENCY IN CRYSTAL FIELD THEORY
QPR-52 N64-20412 13-25

COVALENCY IN CRYSTAL FIELD THEORY USING CLUSTER MODEL FOR POTASSIUM NICKEL FLUORIDE
N64-20416 13-25

QUANTUM THEORY OF COVALENT BONDING AND ANALYSIS OF RESONANCE THEORY N64-22878 16-23

CRACK
SA FAILURE
SA STRAIN
CF FATIGUE
CF STRESS
FATIGUE STRENGTH OF MEMBERS CONTAINING CRACKS
WAPD-T-1495 N64-10170 01-33

SPECIFIC CRACK STRENGTH OF BONDED BEAM BY JOINT PEELING TEST
DFL-196 N64-10232 01-34

MUSKHELISHVILI EXTENSION PRINCIPLE FOR MULTIVALUED MAPPING FUNCTIONS INVOLVING CORNERS AND CRACK STRESSES
WAL-TR-811.8/4 N64-10244 01-33

STRESS CORROSION CRACKING IN HIGH STRENGTH FERROUS ALLOYS
FZM-2690 N64-12665 04-18

STRESS-CORROSION CRACKING OF METAL ALLOYS IN ANNEALED, QUENCHED, AND AGED CONDITIONS
LO414-01-23 N64-12815 04-18

PLANE ELASTIC STRESS PROBLEM OF RECTANGULAR TENSILE SHEET WITH EDGE CRACKS
AMRA-TR-63-22 N64-14001 05-33

STRESS-CORROSION CRACKING OF HIGH STRENGTH NICKEL ALLOY STEELS
FZM-2951 N64-14617 06-18

TENSILE STRESS ON ELASTIC SHEET WITH CRACKS IN EDGES AND LATERAL END CONSTRAINT
AMRA-TR-63-26 N64-16490 08-33

STRESS-CORROSION CRACKING OF HIGH STRENGTH ALUMINUM ALLOYS
NASA-CR-55857 N64-16734 08-18

ELASTIC STRESS DISTRIBUTION IN THIN, FINITE-WIDTH ORTHOTROPIC PLATES WITH CENTRAL CRACKS - SOLUTION BY USE OF FINITE FOURIER TRANSFORMS
NASA-TN-D-2260 N64-17161 09-33

CONTROL OF STRESS CORROSION CRACKING OF STEELS BY APPLYING PROTECTIVE COATINGS
RIA-63-3890 N64-17317 09-18

NUMERICAL INTEGRATION OF INTEGRAL EQUATION IN MIXED-BOUNDARY ELASTICITY PROBLEM - STRESS FIELD IN CYLINDER WITH PENNY-SHAPED CRACK
AD-437920 N64-20305 13-20

MICROCRACK PROPAGATION OF CLEAVAGE FRACTURE IN POLYCRYSTALLINE IRON
SSC-161 N64-21153 14-25

PETROLEUM EXTRACTS FOR THERMAL CRACKING OR PYROLYSIS, AND CARBON BLACK PRODUCTION
FTD-TT-63-1152/1 N64-22664 15-07

NOTCH AND CRACK STRENGTH OF METALS UNDER STATIC OR FATIGUE LOADING
SAE PAPER-843C N64-23339 16-33

EFFECT OF CRACK SHAPE ON FRACTURE TOUGHNESS OF MARAGING STEEL
SM-44671 N64-27370 19-18

EFFECT OF RIVETED STRINGER ON STRESS CONCENTRATION IN ELASTIC SHEET WITH CRACK OR CUT-OUT
TR-20 N64-28555 20-33

SLIP MECHANISMS IN PLASTIC DEFORMATION OF CRYSTALS NEAR YEILD POINT - FORMATION OF MICROCRACK NUCLEI
N64-29062 21-24

TESTING SYSTEM STIFFNESS EFFECTS ON FRACTURE OF CRACKED SHEET SPECIMENS
ML-TDR-64-150 N64-29937 21-18

CRACK FORMATION
CRACKING AND BULK MOVEMENT IN IRRADIATED URANIUM OXIDE FUEL ELEMENTS
AECL-1827 N64-10259 01-23

THEORY OF CRACK INITIATION IN BRITTLE FRACTURE OF

CRYSTAL
JPRS-17578 N64-10479 01-25

STRESS CORROSION CRACKING OF HIGH STRENGTH ALLOYS
REPT.-0414-01-9 N64-10542 01-33

STRESS-CORROSION CRACKING OF TITANIUM ALLOY AND NICKEL MARAGING STEELS WITH COATINGS EVALUATION
L0414-01-22 N64-10543 01-33

HYDROSTATIC PRESSING, IMPREGNATION, AND CRACKING OF METAL POWDERS AND RADIATION METHOD FOR PREPARING FINE PARTICLES
JPRS-18407 N64-11478 03-01

LAMINATION CRACKING IN METAL POWDER PRESSINGS AS RESULT OF ELASTIC STRETCHING OF DIE AND ELASTIC AFTEREFFECTS IN SPECIMEN N64-11482 03-17

HYDROSTATIC PRESSING VESSEL FAILURE DUE TO CRACK FORMATION
NASA-RP-92 N64-13198 04-17

ECONOMIC STUDY OF CATALYTIC HYDROCRACKING PROCESS APPLIED TO ORGANIC REACTOR COOLANT
IDO-11400 N64-13368 04-07

STRESS-CORROSION CRACKING OF HIGH STRENGTH ALLOYS - TITANIUM AND NICKEL ALLOYS
L0414-01-21 N64-13591 05-18

EFFECT OF REPEATED QUENCHING ON CRACKING OF URANIUM ALLOYS N64-19443 12-18

EFFECT OF SPECIMEN SIZE ON FATIGUE CRACK-STRENGTH OF CYLINDRICAL SPECIMENS OF HEAT-TREATED 4340 STEEL
NRL-6012 N64-20266 13-18

CRACK FORMATIONS IN WELDED JOINTS OF HIGH STRENGTH STEEL - BIBLIOGRAPHY
DMIC-197 N64-20378 13-18

ACOUSTIC DETECTION OF CRACK INITIATION IN SHARPLY NOTCHED SPECIMENS OF HIGH STRENGTH ALLOYS
NASA-RP-180 N64-21304 14-33

STRESS CORROSION CRACKING OF HIGH STRENGTH STEEL
L0414-02-7 N64-22532 15-18

PETROLEUM EXTRACTS FOR THERMAL CRACKING OR PYROLYSIS, AND CARBON BLACK PRODUCTION
FTD-TT-63-1152/1 N64-22664 15-07

STRESS-CORROSION CRACKING IN IRON & STEEL
R/D-2721-4 N64-23966 16-33

STRESS-CORROSION CRACKING OF AUSTENITIC STAINLESS STEELS IN ACID CHLORIDE MEDIA
AROD-2721-3 N64-23967 16-18

CRACK FORMATION AND FAILURE PROCESSES IN LITHIUM FLUORIDE SINGLE CRYSTALS
MET-E-1160-0464-QP1 N64-26427 18-33

DELAYED CRACKING IN SEAM WELDED STRUCTURES OF UNALLOYED TITANIUM SHEET
DMIC-MEMO-191 N64-27723 19-18

EFFECT OF INCREASED CARBON AND ALLOY CONTENT ON HYDROGEN COLD CRACKING OF WELDED WROUGHT STEEL
C59/16/64 N64-28143 20-18

CRACK INITIATION IN CRYSTALLINE MATERIALS OBSERVED THROUGH PURE TUNGSTEN, TITANIUM ALLOY, AND LITHIUM FLUORIDE SINGLE CRYSTALS
SURI-MET-1160-0764-IT N64-30963 22-33

CRACK INITIATION IN METALLIC MATERIALS - ANALYSIS OF HOLE AND NOTCH STRESS FIELDS, AND EXPERIMENTAL STUDIES OF SURFACE DEFECT EFFECTS
MET-E-1040-6308Q3 N64-31164 22-18

CRACK FORMATION AND FRACTURE IN ALUMINUM-SILICON ALLOYS
TR-8 N64-32028 23-18

HOT-SALT STRESS-CORROSION CRACKING OF TITANIUM ALLOYS - SUPERSONIC TRANSPORT APPLICATION
NASA-CR-117 N64-32829 24-18

CRACK NUCLEATION & GROWTH RATE IN NOTCHED METAL MICROSTRUCTURES - FATIGUE MECHANISM
QPR-3 N64-33667 24-33

CRACK PROPAGATION
THEORY OF ELASTICITY SOLUTIONS FOR STRESS FIELD AT CRACK TIP - ELASTIC-PLASTIC FATIGUE TRANSFORMATION AND CRACK PROPAGATION
AGARD-412 N64-10258 01-33

STRESS DISTRIBUTION IN VICINITY OF CRACK IN CENTER OF PLATE MATERIALS
DMIC-MEMO-178 N64-11761 03-33

EFFECT OF WATER & WATER VAPOR IN STABLE CRACK EXTENSION AND DELAYED FRACTURE IN HIGH STRENGTH STEEL
NRL-TM-240 N64-12077 03-18

FRACTURE - UNSTABLE PROGRESSIVE CRACK EXTENSION AT NORMAL SPEEDS OF STRESS APPLICATION
N64-13444 05-25

ENVIRONMENTAL EFFECTS ON CRACK PROPAGATION IN HIGH STRENGTH STEEL
RTD-TDR-63-4225 N64-17524 09-18

STRUCTURAL FATIGUE, CRACK PROPAGATION, AND FRACTURE STUDIES
PUBL.-141 N64-17547 09-02

FATIGUE AND CRACK PROPAGATION IN ALUMINUM, AND DISLOCATION MECHANISM IN COPPER-ZINC ALLOYS
WADD-TR-60-313, PT. 2 N64-17850 10-33

CRITICAL ANALYSIS OF CRACK PROPAGATION LAWS
N64-18168 10-33

ELECTRIC POTENTIAL TECHNIQUE FOR DETERMINING SLOW CRACK PROPAGATION
AMRA-TR-63-27 N64-18271 10-23

STRESS CORROSION CRACKING OF HIGH STRENGTH STEELS
L0414-02-6 N64-18622 11-18

ROTATING BEAM TEST FOR LOW CYCLE FATIGUE CRACK PROPAGATION STUDIES OF NOTCH-TOUGH MATERIALS
NRL-6056 N64-18869 11-18

STRESS CORROSION CRACKING OF NICKEL MARAGING HIGH STRENGTH STEELS
L0414-02-5 N64-19138 11-18

STATISTICAL PROBABILITY OF FATIGUE FAILURE THROUGH CRACK PROPAGATION
NASA-CR-53516 N64-19257 11-33

FATIGUE TESTS AND CRACK PROPAGATION OF ALLOY A.2GN AT VARIOUS FREQUENCIES AND TEMPERATURES
ICAF-231 N64-19543 12-33

FATIGUE CRACK PROPAGATION IN REDUNDANT STRUCTURES DUE TO RANDOM LOADING
NASA-CR-53506 N64-19982 12-33

METAL FATIGUE LIMIT AND RATE OF CRACK PROPAGATION
NASA-CR-53632 N64-20001 13-33

CRACK PROPAGATION RATES AND PLASTIC FLOW IN THEORY OF FRACTURE MECHANICS
RTD-TDR-63-3102 N64-21395 14-19

CONTINUOUS MEASUREMENT OF INSTANTANEOUS CRACK PROPAGATION VELOCITY N64-22118 15-33

FATIGUE CRACK PROPAGATION BY RANDOM PRESSURES IN TURBULENT BOUNDARY LAYERS
ISAV-MEMO-104 N64-22215 15-34

HIGH SPEED CAMERA FOR METALLOGRAPHIC AND CRACK PROPAGATION STUDIES
ARL-64-69 N64-23969 16-18

CRACK PROPAGATION PROPERTIES OF THIN SHEETS
ARC-CP-564 N64-25066 17-33

CRACK PROPAGATION SPEED IN ALUMINUM SHEET USING

IMPEDANCE MEASUREMENTS
FF-HE-988 N64-25194 17-33

DEPENDENCE OF CRACK EXTENSION FORCE ON CRACK LENGTH FOR SINGLE-EDGE-NOTCH TENSION SPECIMEN
NASA-TN-D-2396 N64-26452 18-33

STRESS LEVEL PROPAGATION OF FATIGUE CRACK THROUGH ROTATING CANTILEVER SPECIMEN
ARL/SM-283 N64-26471 18-18

DISLOCATION REARRANGEMENT IN FATIGUE HARDENED ALUMINUM DURING PREPARATION OF SAMPLES FOR TRANSMISSION ELECTRON MICROSCOPY - THEORY OF FATIGUE CRACK PROPAGATION
QPR-2 N64-26864 18-18

STRESS DISTRIBUTION IN VICINITY OF CRACK IN CENTER OF PLATE
DMIC-MEMO-190 N64-26912 18-33

SIZE EFFECTS ON FATIGUE CRACK PROPAGATION
ARL-64-68 N64-27466 19-33

MECHANICAL PROPERTIES OF BORON - FRACTURE AND CRACK PROPAGATION
HR-64-266 N64-27699 19-18

HOT CRACKING TENDENCIES OF HIGH STRENGTH STEELS SUBJECTED TO THERMAL CYCLING
MEL-90-64 N64-29438 21-33

CRACK NUCLEATION AND PROPAGATION IN FATIGUE OF ALUMINUM ALLOYS
NLR-TR-M.2122 N64-30638 22-18

METAL ACOUSTIC FATIGUE ANALYSIS - CRACK GROWTH FACTOR
NOR-63-196 N64-30934 22-33

AXIAL LOAD FATIGUE-CRACK PROPAGATION IN TITANIUM AND STAINLESS STEEL ALLOYS
NASA-TN-D-2331 N64-31568 23-18

THERMAL SHOCK CRACKING OF GLASS DIODES ON CIRCUIT BOARDS DUE TO CONTRACTION AND EXPANSION OF CONFORMAL COATINGS
RG-TN-63-6 N64-32421 23-09

FRACTURE TOUGHNESS, FATIGUE-CRACK PROPAGATION, AND CORROSION CHARACTERISTICS OF ALUMINUM ALLOY PLATES FOR WING SKINS
AD-447686 N64-32546 23-18

TENSILE, AXIAL FATIGUE, AND CRACK PROPAGATION PROPERTIES OF ALUMINUM ALLOY, NICKEL MARAGING STEEL, HASTELLOY, AND NICKEL BASE ALLOY
GD/A-63-0818-3 N64-32819 24-18

CRANE
CRANE HELICOPTERS
FTD-TT-63-801/1 N64-29590 21-04

CRASH
AIRFRAME DEFORMATION OF CH-21A HELICOPTER UNDER DYNAMIC CRASH
AVSER-63-3 N64-18465 10-04

ENVIRONMENTAL TESTS ON CRASH POSITION INDICATOR
ATL-TDR-64-20 N64-22272 15-15

STRUCTURAL ANALYSIS OF CRASH IMPACT CONFIGURATIONS IN STEEL TUBE AND FABRIC AIRCRAFT
AVSER-63-9 N64-27845 19-33

CRATER
SA LUNAR CRATER
ROM CHARGE SEPARATION AND DEPTH EFFECT ON CRATER DIMENSION
SC-4730/RR/ N64-10256 01-12

THEORY OF CONDUCTIVITY PROBE - MASS OF COLLIDING PARTICLES AND ORBITS OF IONS & NEUTRAL PARTICLES
NASA-CR-55101 N64-12401 03-24

DIMENSIONAL ANALYSIS OF METHODS FOR SCALING LINEAR DIMENSIONS OF CRATERS N64-12409 04-23

MATHEMATICAL MODEL OF CRATER FORMATION BY HYPERVELOCITY IMPACT N64-13525 05-23

TEMPERATURE-YIELD STRENGTH CORRELATION OF CRATER SIZE IN ALUMINUM BY HYPERVELOCITY IMPACT OF ALUMINUM SPHERES
NOLTR-63-142 N64-16649 08-23

ENGINEERING OF CRATERS PRODUCED BY NUCLEAR EXPLOSIONS
UCRL-7657 N64-17705 09-17

RADIOGRAPHIC STUDY OF CRATER GROWTH IN WAX UNDER HYPERVELOCITY IMPACT
BRL-1526 N64-20347 13-23

FLUID IMPACT CRATERS AND HYPERVELOCITY - HIGH VELOCITY IMPACT EXPERIMENTS IN METALS AND ROCKS
NASA-CR-56359 N64-22459 15-12

COESITE AS CRITERION OF METEORITIC ORIGIN OF CRATERS
T-385-R N64-33484 24-12

CRATERING
CF PENETRATION
CRATERING EXPERIMENT OF SCOOTER HIGH EXPLOSIVES IN PLOWSHARE PROGRAM
SC-4602/RR/ N64-11787 03-23

VISCOPLASTIC SOLUTION OF HYPERVELOCITY IMPACT CRATERING PHENOMENON N64-13523 05-23

HYPERVELOCITY IMPACT ON TRANSPARENT PLASTICS - PROJECTILE CRATERING, SHOCK WAVES, & FRACTURING
AEDC-TDR-64-49 N64-20035 13-23

ENERGY PARTITIONING IN HIGH VELOCITY-IMPACT CRATERING IN LEAD N64-25346 17-23

CRATERING ENERGY DENSITY DETERMINATIONS FOR METAL TARGETS BY REFLECTIVITY MEASUREMENTS
NASA-RP-240 N64-25972 18-29

MOMENTUM TRANSFER AND CRATERING EFFECTS PRODUCED BY GIANT LASER PULSES
NASA-RP-267 N64-26081 18-25

PREDICTION OF CRATERING DIMENSIONS AND FREE-FIELD GROUND MOTIONS RESULTING FROM CHEMICAL AND NUCLEAR DETONATIONS
WL-TDR-64-27 N64-27963 20-25

MICROCRATERS IN RECOVERED FRAGMENTS FROM MERCURY ATLAS LAUNCH VEHICLES
WL-TDR-64-39 N64-29327 21-31

HYPERVELOCITY IMPACT ON STRUCTURAL MATERIAL USING EXPLODING CONDUCTOR CIRCUIT - MEASUREMENT OF MASS, VELOCITY, AND CRATERING OF PARTICLES
WL-TDR-64-161 N64-29427 21-33

CREATINE
EFFECT OF BODY TEMPERATURE IN BRAIN AND MUSCLE ON ADENOSINE TRIPHOSPHORIC ACID AND CREATINE PHOSPHATE CONTENT N64-12572 04-16

CREEP
SA DUCTILITY
SA PLASTIC FLOW
CF DEFORMATION
CF MECHANICAL PROPERTY
EFFECT OF HYDROGEN ON CREEP PROPERTIES OF ANNEALED ZIRCALOY-2
AECL-1826 N64-10378 01-18

POWDER METALLURGY STUDIES ON CREEP, SINTERING, CHROMIUM CARBIDE, AND DIFFUSION SATURATION
JPRS-17499 N64-10685 02-18

CREEP PROCESSES IN COMPRESSED METAL POWDER BODIES N64-10686 02-18

ANNIHILATION OF VACANCIES DURING CREEP WITH REPLACEMENT BY NITROGEN, BORON, OR CARBON AS A FACTOR IN INCREASED HEAT-RESISTANCE IN STEEL N64-10792 02-18

CREEP RATE, LOAD LIFE, AND AUTODIFFUSION CONSTANT OF COPPER-NICKEL ALLOYS OF VARYING COMPOSITION AT

HIGH TEMPERATURES
JPRS-17728 N64-11210 02-18

ANALYSIS OF CREEP DATA OF CHROMIUM AND CHROMIUM ALLOYS
ARL/MET-51 N64-11823 03-18

STRESS-RUPTURE AND CREEP PROPERTIES OF REFRACTORY METALS TO 2800-DEG C AND IN PREPARED ATMOSPHERES
TN-63-4-12 N64-11984 03-18

APPARATUS FOR DETERMINING CREEP AND RECOVERY OF GRAPHITE BY APPLYING TORSIONAL STRESSES TO THIN WALLED TUBES
COA-NOTE-MAT-1 N64-12021 03-19

TENSILE, RUPTURE, CREEP, & FATIGUE TESTS OF NICKEL ALLOYS
AD-422498 N64-12039 03-18

CREEP OF NIOBIUM ALLOYS
DMIC-MEMO-170 N64-12045 03-18

BENDING OF PRISMATIC BEAM UNDER CONDITIONS OF NON-STATIONARY CREEP
RSIC-4 N64-12263 03-33

CREEP IN LARGE PLATES WITH CONCENTRATED FORCE TAKEN AS LINE LOAD ALONG THICKNESS OF STRAIGHT BOUNDARY
AF-AFOSR-419-63 N64-12922 04-33

CREEP BEHAVIOR OF CIRCULAR PLATES
PIBAL-677 N64-12978 04-33

DATA REDUCTION METHOD FOR CORRECTING FINITE LOADING TIMES IN VISCOELASTIC STRESS & CREEP TESTS
P-63-6 N64-12994 04-33

TENSILE, RUPTURE, CREEP, FATIGUE, AND OTHER MECHANICAL PROPERTIES OF INCONEL X
QR-7 N64-13895 05-20

HIGH TEMPERATURE CREEP ANALYSIS OF VANADIUM-NIOBIUM BASE ALLOYS
IITRI-B6007-6 N64-13954 05-18

IN-REACTOR CREEP ANALYSIS OF ZIRCALOY-2
N64-14231 06-18

HIGH TEMPERATURE REACTOR MATERIAL STRESS RUPTURE CREEP TESTING, AND EFFECT OF RADIATION ON CREEP-RUPTURE PROPERTIES OF HIGH TEMPERATURE ALLOYS
GEMP-31A N64-14420 06-18

CREEP-FATIGUE INTERACTIONS UNDER CYCLIC LOADING CONDITIONS
ASD-TDR-63-644 N64-14468 06-33

CYCLIC STRAIN ACCUMULATION IN COPPER TUBE UNDER STEADY TENSION AND ALTERNATING TORSION - CYCLIC CREEP
RTD-TDR-63-4120 N64-14653 06-18

HIGH TEMPERATURE MECHANISM OF CREEP AND RECOVERY IN GRAPHITE
COA-M-MAT-10 N64-14831 06-19

CHARACTERISTICS OF HIGH TEMPERATURE MECHANISMS OF CREEP AND RECOVERY IN GRAPHITE
COA-NOTE-MAT-1, PT. 2 N64-15916 07-19

CREEP RESISTANCE OF ADHESIVES
FTDM-3160 N64-16639 08-33

CREEP-RUPTURE TESTS OF REFRACTORY METALS AND ALLOYS IN HYDROGEN AND ARGON ATMOSPHERES
N64-16996 09-18

CHANGES IN MICROSTRUCTURE, HARDNESS, AND ELECTRIC CONDUCTIVITY DURING CREEP IN HIGH TEMPERATURE STEELS
N64-17027 09-18

THEORY OF CREEP RESISTANCE AT HIGH TEMPERATURES
N64-17061 09-18

BRITTLE FRACTURE IN METALS UNDER CREEP CONDITIONS
N64-17062 09-18

PLASTIC DEFORMATION - CREEP AND CARRYING CAPACITY OF SHELLS
RSIC-132 N64-17638 09-33

DEFORMATION EFFECTS ASSOCIATED WITH CREEP AND FATIGUE LOADING ON METALS
RID-TDR-63-4149 N64-17858 10-18

INSTANTANEOUS COLLAPSE AND CREEP BUCKLING OF CYLINDRICAL SHELLS
ORNL-3555 N64-18275 10-33

DURABILITY, CREEP, AND THERMAL FATIGUE OF HEAT RESISTANT & REFRACTORY MATERIALS SUCH AS CERMETS & ALLOYS
JPRS-24166 N64-18296 10-18

MAXIMUM LIFETIME OF RODS DURING BENDING - CREEP ANALYSIS
RSIC-145 N64-19120 11-33

INTERMITTENT CREEP AND STABILITY TEST OF EXPOSURE TO HIGH TEMPERATURE, AND FRACTURE TOUGHNESS
FPR-007/47 N64-19159 11-18

CREEP RESISTANCE OF STEELS CONTAINING VARYING AMOUNTS OF NICKEL AND ALLOYED WITH TUNGSTEN OR MOLYBDENUM
FTD-TT-64-48/162 N64-19769 12-18

CREEP TESTING OF ADHESIVE MATERIALS FOR F-111 AIRCRAFT
FGT-3093 N64-20045 13-19

CREEP ANALYSIS OF AEROBOND 500 AND DYNABOND 132 STRUCTURAL ADHESIVES
FTDM-3197 N64-20063 13-17

CREEP ANALYSIS OF THIN CIRCULAR CYLINDRICAL SHELLS
PIBAL-685 N64-20330 13-33

AXISYMMETRIC CREEP BUCKLING OF CLAMPED SHALLOW SPHERICAL SHELLS
TR-145 N64-20350 13-13

VANADIUM ALLOY STUDIES TO IMPROVE CREEP AND STRESS RUPTURE PROPERTIES
IITRI-B6021-1 N64-20565 13-18

EFFECT OF DEGREE OF VACUUM ON SLOW-BEND CREEP OF NIOBIUM-ZIRCONIUM ALLOY AT HIGH TEMPERATURE
ORNL-3569 N64-21298 14-18

CREEP CHARACTERISTICS OF TENSION MEMBERS IN HIGH TEMPERATURES BY USING PHOTO-SCREEN METHOD
FTR-3/5-12-1963 N64-21392 14-18

CREEP DEFORMATION OF METAL ADHESIVE BONDING
DFL-229 N64-21534 15-19

MECHANICS OF METALLIC CREEP N64-21986 15-33

CREEP RECOVERY DURING STRESS LOADING CYCLE
N64-22082 15-33

STRESS-RUPTURE AND CREEP ANALYSIS OF RHENIUM, TUNGSTEN, & ARC CAST MOLYBDENUM
GEMP-35A N64-22208 15-33

CREEP AND BENDING STRAIN RATE MEASUREMENTS OF TITANIUM DIOXIDE SINGLE CRYSTALS AT HIGH TEMPERATURES
ML-TDR-64-114 N64-22564 15-25

CREEP TEST DATA ON REFRACTORY ALLOYS AT HIGH TEMPERATURES FOR SPACE ELECTRIC POWER SYSTEMS
NASA-CR-54048 N64-23934 16-18

CREEP BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECTED TO AXIAL COMPRESSION
FFA-98 N64-25999 18-33

FABRICATION, CREEP-RUPTURE TESTS, AND RADIATION EFFECTS ON REFRACTORY METALS AND ALLOYS FOR HIGH TEMPERATURE REACTOR COMPONENTS
GEMP-37A N64-26534 18-18

EFFECT OF STRESS VARIATION ON CREEP OF SUPERALLOY AT ELEVATED TEMPERATURES

ML-TDR-64-166 N64-26904 18-33

CREEP ANALYSIS OF ORTHOTROPIC FIBERGLASS
FTD-TT-64-372/1&2&4 N64-26934 18-33

TENSILE, STRESS RUPTURE, CREEP, SHEAR, AND FATIGUE TESTING OF REFRACTORY ELEMENTS N64-27594 19-18

CREEPING WAVE CONTRIBUTION TO MONOSTATIC RADAR SCATTERING CROSS SECTION FROM HOMOGENEOUS SPHERE AS FUNCTION OF INDEX OF REFRACTION
REPT.-64SD702 N64-27608 19-08

REACTOR TECHNOLOGY - FUEL ELEMENTS, CORROSION, CREEP, ZIRCONIUM ALLOYS, AND GAS COOLED REACTOR
BMI-1674-/DEL/ N64-28017 20-18

ULTRAHIGH VACUUM FURNACE AND AUXILIARY CONTROL EQUIPMENT FOR LONG TIME CREEP TESTS ON REFRACTORY ALLOYS - NIOBIUM ALLOY
NASA-CR-54123 N64-28051 20-18

CREEP ANALYSIS OF NONFERROUS METALS AT ROOM TEMPERATURE N64-28498 20-33

CREEP IN METAL AT HIGH TEMPERATURES UNDER COMBINED TENSILE AND TORSIONAL STRESS N64-28499 20-33

IMPROVING SHORT TIME CREEP PROPERTIES OF VANADIUM ALLOYS
IITRI-B6021-3 N64-29904 21-18

EFFECT OF OXYGEN ON CREEP-RUPTURE OF NIOBIUM
NRL-6095 N64-29956 21-18

CREEP ANALYSIS OF ANNULAR PLATES
PIBAL-695 N64-30000 21-33

CREEP AND FATIGUE LIFE IN FILAMENT WOUND LAMINATES
AD-602495 N64-30061 21-19

APPARATUS FOR BIAXIAL CREEP MEASUREMENTS ON STAINLESS STEEL CAPSULE FILLED WITH LITHIUM
SY-5472-R N64-30767 22-15

STRESS ANALYSIS IN STRUCTURES SUBJECT TO CREEP
TR-35 N64-30917 22-33

ELEVATED TEMPERATURE, TENSILE, AND CREEP PROPERTIES OF INCONEL AND OTHER NICKEL BASE ALLOYS
ML-TDR-64-79 N64-31968 23-18

HIGH TEMPERATURE LABORATORY FOR CREEP TESTING AND STRAIN MEASURING AND RECORDING
AD-602230 N64-32067 23-10

CREEP PROPERTIES OF VANADIUM ALLOYS AT HIGH TEMPERATURES - EFFECTS OF TANTALUM ADDITIONS
IITRI-B6021-2 N64-32098 23-18

BOUNDS ON RATE OF ENERGY DISSIPATION IN BODY DEFORMING BY SECONDARY CREEP
TR-38 N64-32810 24-33

STRESS CONCENTRATION IN NONLINEAR CREEP OF CIRCULAR CYLINDRICAL SHELL
NONR-562/20//36 N64-33022 24-33

CREEP AND NOTCH STRENGTH OF ALUMINUM WELDED JOINTS AND FILLER METALS FOR ALUMINUM ALLOYS
NASA-CR-59243 N64-33289 24-18

EFFECTS OF POTASSIUM VAPOR ON CREEP-RUPTURE PROPERTIES OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOYS FOR SNAP 50/SPACE POWER UNIT REACTOR /SPUR/ PROGRAM
APS-5092-R N64-33532 24-18

TRANSIENT CREEP IN THICK WALL SPHERICAL SHELLS
N64-33710 24-33

CREEP RUPTURE ANALYSIS OF DUCTILE MATERIALS SUBJECTED TO STRAIN HARDENING CREEP
SUDAER-196 N64-33982 24-33

CRESTATRON

HIGH POWER CRESTATRONS FOR VERY HIGH FREQUENCY RANGE
QPR-14 N64-21833 15-09

HIGH POWER CRESTATRON FOR VERY HIGH FREQUENCIES
AD-600595 N64-22534 15-09

HIGH POWER CRESTATRON STUDIES - HOLLOW BEAM ELECTRON GUN USING ELECTROSTATIC AND MAGNETIC FOCUSING
QPR-16 N64-32559 23-09

CREW

S ASTRONAUT

CRITICAL FREQUENCY

ESTIMATION OF F-2 LAYER DISTURBANCE IN HIGH LATITUDES - QUIET DAY IONIZATION & DEVIATION OF CRITICAL FREQUENCIES
JPRS-17835 N64-10489 01-12

PREDICTED MEDIAN VALUES OF CRITICAL AND MAXIMUM USABLE FREQUENCIES FOR IONOSPHERIC PROPAGATION
RRC-893 N64-19494 12-12

LATITUDINAL AND SEASONAL DISTRIBUTION OF DAILY MAXIMA AND MINIMA OF F- 2 LAYER CRITICAL FREQUENCIES
NASA-TT-F-9018 N64-23133 16-16

CRITICAL LOADING

CRITICAL LOAD MEASUREMENT DURING BOILING OF LIQUIDS - STABILITY CALCULATION FOR FILM & BUBBLE BOILING REGIMES N64-11141 02-13

CRITICAL POINT

INFLUENCE OF RADIATION HEAT EXCHANGE ON REMOVAL OF SUBSTANCE IN CRITICAL POINT OF BLUNT-NOSED BODY
FTD-MT-63-60/1&2 N64-18757 11-13

BOUNDARY LAYER DEVELOPMENT NEAR CRITICAL POINT OF BLUNT BODY N64-23679 16-11

CROSS SECTION

S ABSORPTION CROSS SECTION
S IONIZATION CROSS SECTION
S NEUTRON CROSS SECTION
S RADAR CROSS SECTION
S SCATTERING CROSS SECTION

CROSSED FIELD

MINIMUM LENGTH CROSSED-FIELD MHD ACCELERATOR WITH CONSTANT ENTHALPY, MAGNETIC FIELD, & ELECTRIC CONDUCTIVITY
SSD-TDR-63-338 N64-14498 06-24

PLASMA DIAGNOSTICS STUDIES FOR CROSSED FIELD ACCELERATORS
EOS-RN-11 N64-17470 09-24

GENERATION OF COLD PLASMA SUITABLE FOR USE AS CROSSED FIELD ACCELERATOR BY DIRECT CURRENT GLOW DISCHARGE
ASD-TDR-63-835 N64-20124 13-24

CROSSED ELECTRIC AND MAGNETIC FIELDS USED TO FOCUS BEAM OF CHARGED PARTICLES AND CONTROL DRIFT VELOCITY
R-214 N64-28503 20-08

DESIGN AND PERFORMANCE OF LINEAR CROSSED-FIELD AIR PLASMA ACCELERATOR FOR REENTRY SIMULATION FACILITY
NASA-CR-58543 N64-28517 20-24

NOISE AND SPURIOUS OSCILLATION IN CROSSED FIELD DEVICES
WR-1178 N64-28662 20-09

ELECTRODES FOR CROSSED FIELD PLASMA ACCELERATORS
NSL-62-113-9 N64-32321 23-24

CROSSED FIELD AMPLIFIER

ELECTRON TUBE DEVELOPMENT FOR L-BAND CROSSED FIELD AMPLIFIERS
RADC-TDR-63-492 N64-13673 05-08

KU-BAND CROSSED-FIELD AMPLIFIER
SFD-32-IDR-1 N64-19806 12-09

X-BAND CROSSED-FIELD AMPLIFIER
SFD-33-IDR-2 N64-19807 12-09

COUPLING MECHANISM IN INJECTED-BEAM CROSSED FIELD

AMPLIFIERS & REDUCTION OF NOISE
AD-431248 N64-21371 14-09

X-BAND CONTINUOUS WAVE CROSSED FIELD AMPLIFIER
SFD-33-IDR-3 N64-25100 17-09

PERFORMANCE AND LIFE TESTS OF DRIVER TUBES FOR L-BAND CROSSED FIELD AMPLIFIER CHAIN DEVELOPMENT
RADC-TDR-64-236 N64-25385 17-09

NOISE REDUCTION IN INJECTION BEAM CROSSED FIELD AMPLIFIERS
QR-3 N64-26096 18-09

INTERACTION STRUCTURES LEADING TO DEVELOPMENT OF X-BAND CROSSED FIELD AMPLIFIERS
AD-437747 N64-26291 18-23

ELECTRICAL AND MECHANICAL DESIGNS OF HIGH POWER CROSSED FIELD AMPLIFIER AND PERFORMANCE TEST RESULTS ON FIRST INTERIM TUBE
RADC-TDR-64-156 N64-26890 18-09

K-BAND CROSSED-FIELD AMPLIFIER
SFD-32-F N64-28520 20-09

SLOW WAVE STRUCTURE EVALUATION AND TUBE CONSTRUCTION FOR X-BAND CONTINUOUS WAVE CROSSED FIELD AMPLIFIER
SFD-33-IDR-4 N64-30668 22-09

CRUCIFORM
FLIGHT CHARACTERISTICS OF BOMB WITH CRUCIFORM TAIL
WRE-TN-SAD-102 N64-28732 20-02

CRUCIFORM WING
CRUCIFORM WING OF FINITE SPAN IN COMPRESSIBLE FLOW
FTD-TT-64-127/1&2&4 N64-26510 18-03

FLIGHT TEST RESULTS FROM FOUR-COMPONENT BALANCE & OTHER AIRBORNE INSTRUMENTATION IN SUPERSONIC MISSILE WITH CRUCIFORM RECTANGULAR WINGS
WRE-TN-SAD-88 N64-28731 20-15

CRYOGENIC COMPUTER
CONTINUOUS EVAPORATED FILM CRYOELECTRIC MEMORY DEVICES
RADC-TDR-63-351 N64-12047 03-09

LOW TEMPERATURE, SUPERCONDUCTING COMPUTING ELEMENTS
REPT.-8971-6009-RU-000 N64-24001 16-13

CRYOGENIC EQUIPMENT
ABSOLUTE THERMOCONDUCTIVITY MEASUREMENTS AT CRYOGENIC TEMPERATURES - CALORIMETER DESIGN, CONSTRUCTION, AND CALIBRATION
ASD-TDR-63-756 N64-12636 04-13

CRYOGENICS - PHYSICAL PROPERTIES OF FLUIDS, SOLIDS AND INSTRUMENTATION
NASA-CR-55324 N64-14268 06-23

CARBON RESISTORS FOR CRYOGENIC LIQUID-LEVEL MEASUREMENT
NASA-CR-55333 N64-14272 06-15

CYLINDRICAL CALORIMETER FOR MEASURING HEAT TRANSFER OF SILICON DIOXIDE WITH ALUMINUM POWDER THROUGH CRYOGENIC INSULATION
NASA-CR-55327 N64-14283 06-13

MECHANICAL PROPERTIES OF STEELS, ALUMINUM, NICKEL, TITANIUM, AND COBALT ALLOYS FOR CRYOGENIC AEROSPACE STRUCTURES
SSD-63-271 N64-15594 07-18

LIQUID PROPELLANT SENSITIVITY - CRYOGENIC ADAPTATION OF SHOCK TUBE
IITRI-C602V N64-16658 08-26

LINER MATERIALS FOR FILAMENT WOUND FIBERGLASS CRYOGENIC VESSELS N64-23200 16-19

HEAT ABSORPTION CAPABILITY OF CRYOGENIC SHROUD IN SPACE ENVIRONMENT SIMULATOR
REPT.-00.482 N64-25276 17-13

ROLE OF CRYOGENICS IN MECHANICAL ENGINEERING - DESIGN AND TECHNOLOGY OF REFRIGERATION SYSTEMS
N64-26014 18-13

PERFORMANCE PREDICTION AND DESIGN OF CRYOGENIC EQUIPMENT AND PROCESSES N64-26016 18-13

CRYOGENIC EQUIPMENT DEVELOPMENT FOR SPACE - LONG TERM STORAGE OF LIQUID PROPELLANTS AND ELECTRONIC EQUIPMENT REFRIGERATION N64-26018 18-13

CRYOGENIC AND SUPERCONDUCTING DEVICES
N64-32773 24-25

CRYOGENIC FLUID
HOT-WIRE STILLWELL LIQUID LEVEL SENSOR SYSTEM FOR USE WITH CRYOGENIC FLUIDS
NASA-TN-D-2074 N64-10466 01-15

THERMODYNAMIC PROPERTIES OF CRYOGENIC FLUIDS - EVALUATION OF EXPERIMENTAL DATA
NASA-CR-55330 N64-13927 05-19

FUNCTIONS FOR CALCULATION OF ENTROPY, ENTHALPY, AND INTERNAL ENERGY OF REAL CRYOGENIC FLUIDS
NASA-CR-55325 N64-15882 07-13

PITOT PRESSURE SURVEY OF LOW DENSITY, HYPERSONIC GAS FLOWS FROM EACH OF TWO CONICAL HYPERSONIC, CRYOGENIC PUMPING NOZZLES
ERR-AN-349 N64-16856 08-02

CRYOGENIC SOLUTIONS AND SOLUBILITIES IN LIQUID FLUORINE
NASA-TN-D-2286 N64-23233 16-26

DATA ACQUISITION FOR CRYOGENIC SYSTEMS - COMPILATION OF THERMODYNAMIC PROPERTY AS EXAMPLE
N64-26015 18-13

POSITIVE EXPULSION OF CRYOGENIC LIQUIDS FROM TANKS AT ZERO GRAVITY
D2-22297 N64-32877 24-17

TEMPERATURE STRATIFICATION IN LIQUIDS CONTAINED IN HEATED VESSELS - STRATIFIED LAYER FLOW MODEL
N64-32882 24-13

FEASIBILITY OF STORAGE OF SMALL QUANTITY OF CRYOGENIC FLUID ON LUNAR SURFACE
NASA-TM-X-51918 N64-32886 24-10

THERMODYNAMIC PROPERTIES OF CRYOGENIC FLUIDS
N64-33747 24-13

CRYOGENIC GYROSCOPE
SPHERICAL ROTORS FOR CRYOGENIC GYROSCOPES
NASA-CR-58053 N64-27804 19-15

BASIC PRINCIPLES OF ELECTROSTATIC, CRYOGENIC, LASER, AND NUCLEAR GYROS
AD-602197 N64-32607 23-15

CRYOGENIC PROPELLANT
CRYOGENIC PROPELLANT FEED SYSTEMS FOR ELECTROTHERMAL ENGINES
NASA-CR-52726 N64-11075 02-06

ROCKET PERFORMANCE FOR ISENTROPIC PROCESS OF CHEMICALLY FROZEN HYDROGEN THROUGH CONVERGING-DIVERGING NOZZLE
NASA-TN-D-2080 N64-11904 03-27

POLAROGRAPHIC MEMBRANE FOR DETECTING PENTABORANE GAS - INFRARED DETECTOR - ANALYSIS OF CRYOGENIC PROPELLANTS & PENTABORANE-HYDRAZINE FIRING RESIDUE
R-5462 N64-21061 14-24

CRYOGENIC PROPELLANT FEED SYSTEMS FOR ELECTROTHERMAL ENGINES
NASA-CR-60 N64-25020 17-26

HEAT TRANSFER AND FLOW DATA OF CRYOGENIC HYDROGEN FOR NUCLEAR ROCKET PROPELLANT FEED AND REACTOR SYSTEMS N64-26019 18-13

FEASIBILITY OF LONG TERM STORAGE CAPABILITY OF CRYOGENIC AND EARTH PROPELLANTS
RPL-TDR-64-75 N64-27454 19-26

CRYOGENIC TEMPERATURE
CF LOW TEMPERATURE
SUMMARY OF MATERIAL BEHAVIOR AT CRYOGENIC TEMPERATURES N64-10306 01-19

NUCLEAR RADIATION EFFECT ON MATERIALS AT CRYOGENIC TEMPERATURES
NASA-CR-52498 N64-10370 01-18

THERMOCONDUCTIVITY OF METALS AT CRYOGENIC TEMPERATURES
ASD-TDR-63-291 N64-10546 01-18

THERMAL RADIATION PROPERTIES OF SOLIDS AT CRYOGENIC TEMPERATURES N64-10941 02-13

ADHESIVES FOR CRYOGENIC APPLICATION
NASA-CR-52879 N64-11326 02-19

STRUCTURAL PROPERTIES OF FIBERGLAS FILAMENT WOUND PRESSURE VESSELS AT CRYOGENIC TEMPERATURES
NASA-CR-55023 N64-11810 03-19

MATERIAL IRRADIATION AT CRYOGENIC TEMPERATURES - PREPARATION OF TESTING EQUIPMENT AND NEUTRON FLUX MEASUREMENTS
NASA-CR-55044 N64-12030 03-18

CRYOGENIC COATING FOR ELECTRICAL CONDUCTORS
NASA-CR-52931 N64-12101 03-19

ANISOTROPY OF MAGNETIC PROPERTIES OF METAL SINGLE CRYSTALS AT CRYOGENIC TEMPERATURES
FTD-TT-63-518/1&2 N64-12840 04-23

LIQUID OXYGEN ORGANIC SEALANTS FOR USE AT CRYOGENIC TEMPERATURES
NASA-CR-52256 N64-12941 04-19

CRYOGENIC TEMPERATURE & ULTRASONIC VIBRATION EFFECT ON ACTOMYOSIN N64-13693 05-16

CRYOGENIC STRETCH-FORMING OF SOLID PROPELLANT ROCKET MOTOR CASES
AD-420080 N64-14042 05-17

POROUS INSULATING MATERIALS FOR CRYOGENIC USE
REPT.-0782-01-1 N64-14823 06-13

MAGNETIC SUSCEPTIBILITY OF POWDERED MANGANESE FORMATE AT TEMPERATURES BETWEEN 0.4 AND 20 DEG K.
TR-18 N64-15591 07-23

NUCLEAR RADIATION EFFECT ON MATERIALS AT CRYOGENIC TEMPERATURES
NASA-CR-56004 N64-17684 09-23

HALL EFFECT DEVICES AS MAGNETOMETERS FOR CRYOGENIC APPLICATIONS
NASA-TN-D-2272 N64-18736 11-15

RESISTIVITY OF NICKEL ALLOY WIRE IN ZERO MAGNETIC FIELD AT CRYOGENIC TEMPERATURES
AD-434386 N64-18780 11-23

STRUCTURAL PROPERTIES OF FIBERGLASS FILAMENT WOUND PRESSURE VESSELS AT CRYOGENIC TEMPERATURES
NASA-CR-53826 N64-19619 12-33

CHEMICAL REACTIVITY OF HYDROGEN, NITROGEN, AND OXYGEN AT CRYOGENIC TEMPERATURES, AND KRYPTON FLUORIDE STUDIES
NASA-CR-53883 N64-19823 12-07

AUTOXIDATION OF METHYLBORANES AND DIBORANE AT CRYOGENIC TEMPERATURES
AD-427996 N64-19864 12-07

CAPTURE COEFFICIENT FOR GASES AT 77 DEG K AS FUNCTION OF MOLECULAR WEIGHT, HEAT CONDENSATION, & DEBYE TEMPERATURE - HYDROGEN BONDING EFFECT
AEDC-TDR-64-37 N64-20076 13-23

ELECTRON INTERACTIONS IN GASEOUS HELIUM PLASMA UNDER CRYOGENIC CONDITIONS
AFCRL-64-67 N64-20860 14-24

EFFECTS OF PRODUCTION & FABRICATION VARIABLES ON NOTCH STRENGTH OF ALUMINUM-TIN-TITANIUM ALLOY AT LIQUID HYDROGEN TEMPERATURE
NASA-RP-201 N64-23276 16-18

EFFECT OF NUCLEAR RADIATION AND CRYOGENIC TEMPERATURES ON STRUCTURAL MATERIALS
AIAA PAPER-64-361 N64-23354 16-23

CRYOGENIC TEMPERATURE STATIC ELASTOMER SEAL DESIGN
R-320 N64-24138 16-19

MECHANICAL PROPERTIES OF PLASTIC LAMINATES AT CRYOGENIC TEMPERATURES
ASD-TDR-62-794 PT. II N64-24212 16-19

MECHANICAL PROPERTIES OF 18 PERCENT NICKEL MARAGING STEEL AT LOW AND CRYOGENIC TEMPERATURES N64-24363 17-18

CRYOGENIC ASSOCIATIVE PROCESSOR WITH 12-BIT WORD STORAGE
RADC-TDR-64-26 N64-25230 17-17

MAGNETIC SUSCEPTIBILITY OF FERROUS CHLORIDE TETRAHYDRATE AT LIQUID HELIUM TEMPERATURE
TR-20 N64-25656 17-23

CHEMICAL SYNTHESIS AT CRYOGENIC TEMPERATURES N64-26325 18-07

SPECTRAL ANALYSIS OF PURE KRYPTON AND KRYPTON IN ARGON AT LIQUID HYDROGEN TEMPERATURES
E-450-P N64-26657 18-23

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - RADIATION AT CRYOGENIC TEMPERATURES
RSIC-150, VOL. I, APPEND. I N64-27488 19-19

EFFECT OF HYDROGEN CONTENT ON MECHANICAL PROPERTIES OF TITANIUM-6 ALUMINUM-4 VANADIUM BAR AT MINUS 423 DEG F
SM-44661 N64-27516 19-18

NUCLEAR RADIATION EFFECTS ON MATERIALS AT CRYOGENIC TEMPERATURES
NASA-CR-56673 N64-27885 20-18

TENSILE PROPERTIES AND NOTCH SENSITIVITY OF ALUMINUM ALLOYS AT CRYOGENIC TEMPERATURES N64-28693 20-18

WELDING HIGH STRENGTH ALUMINUM ALLOYS IN PLATE THICKNESSES SUITABLE FOR APPLICATION AT CRYOGENIC TEMPERATURES
NASA-CR-58616 N64-28846 20-18

DIELECTRIC COATINGS FOR ELECTRIC CONDUCTORS FOR USE AT CRYGENIC TEMPERATURES
NASA-CR-58502 N64-28958 20-17

ELECTRON PARAMAGETIC RESONANCE SPECTRUM OF IRRADIATED SINGLE CRYSTALS OF ICE AT CRYOGENIC TEMPERATURES N64-30784 22-07

SPONTANEOUS MAGNETIZATION OF ORTHOFERRITES AT CRYOGENIC TEMPERATURES
TN-8 N64-32198 23-25

MECHANICAL PROPERTIES OF CRYOGENIC-STRETCH-FORMED STAINLESS STEELS AT CRYOGENIC TEMPERATURES - HIGH STRENGTH PRESSURE VESSEL MATERIALS
NASA-TN-D-2202 N64-32403 23-18

CHEMICAL REACTIVITY OF HYDROGEN, NITROGEN, AND OXYGEN ATOMS AT CRYOGENIC TEMPERATURES
NASA-CR-58968 N64-32892 24-07

EFFECTS OF NUCLEAR RADIATION COMBINED WITH CRYOGENIC TEMPERATURES ON NONMETALLIC SPACECRAFT MATERIALS
NASA-CR-58830 N64-33043 24-17

CRYOGENIC TEMPERATURE SYSTEM FOR MEASURING THERMAL EXPANSION OF METALLIC AND NONMETALLIC MATERIALS USED IN LARGE SPACE VEHICLES
NASA-TM-X-53090 N64-33184 24-15

CRYOGENICS
CF COOLING

CRYOGENIC STRETCH-FORMING OF SOLID PROPELLANT ROCKET MOTOR CASES
AD-403459 N64-12985 04-26

FLIGHT-WEIGHT ROCKET MOTOR CASES PRODUCED BY CRYOGENIC STRETCH-FORMING
AD-409155 N64-12991 04-26

SOLIDIFICATION OF LIQUID HYDROGEN AND NEON FOR CRYOGENIC-SOLID COOLING SYSTEM
REPT.-0694-01-3 N64-12999 04-26

CRYOGENIC STRETCH-FORMING OF HIGH STRENGTH ALLOYS
QTR-2 N64-13894 05-18

GAS & CRYOSURFACE TEMPERATURE EFFECTS ON CAPTURE COEFFICIENTS IN CARBON DIOXIDE
AEDC-TDR-63-251 N64-15066 07-23

GAS LIQUEFACTION AND CRYOGENIC RESEARCH
FTD-TT-63-268/1&2&3&4 N64-16361 08-13

CRYOGENIC STRETCH-FORMING OF SOLID PROPELLANT ROCKET MOTOR CASES
AD-430537 N64-16475 08-17

CONSTRUCTION OF CRYOGENIC DEWAR INCLUDING DESIGN OF JIG TO HOLD DIODES - SEMICONDUCTOR LASER AMPLIFIER TECHNIQUES /SEMLAM/
RADC-TDR-63-553 N64-16644 08-25

LIQUID PROPELLANT SENSITIVITY - CRYOGENIC ADAPTATION OF SHOCK TUBE
IITRI-C602V N64-16658 08-26

MANUFACTURE OF SPARROW ROCKET MOTOR CASE BY CRYOGENIC STRETCH-FORMING TECHNIQUE
AD-430358 N64-17310 09-17

COMPOSITIONS OF AUSTENITIC STAINLESS STEELS FOR ACHIEVEMENT OF ULTRAHIGH STRENGTH BY CRYOGENIC STRETCH-FORMING
QTR-3 N64-17372 09-18

MECHANICAL PROPERTIES OF CRYOGENIC MATERIALS
AD-420406 N64-18743 11-18

SENSITIVITY OF CRYOGENIC STRAIN GAUGES
NSP-64-26 N64-19029 11-15

HIGH PRESSURE CRYOGENIC CALORIMETRY - MOLAR VOLUME AND THERMAL PROPERTIES OF PARA HYDROGEN
QR-3 N64-20158 13-19

CRYOGENIC STRETCH-FORMING OF SOLID PROPELLANT ROCKET MOTOR CASES
QR-7 N64-21675 15-17

THERMOCONDUCTIVITY AND THERMAL EXPANSION MEASUREMENTS OF PLASTICS AND COMPOSITES FOR CRYOGENIC APPLICATIONS
ML-TDR-64-33, PT. I N64-22554 15-19

PHYSICAL AND MECHANICAL PROPERTIES OF CRYOGENIC MATERIALS - HANDBOOK
PB-171809-4 N64-25042 17-18

SPHERICAL ROTORS FOR CRYOGENIC GYROSCOPES
NASA-CR-58053 N64-27804 19-15

CRYOGENIC STRETCH FORMING OF FLIGHT-WEIGHT ROCKET MOTOR CASES SIMILAR TO PERSHING MISSILE
QR-8 N64-29714 21-17

LARGE ROCKET MOTOR CASES OF HEAVY WALL THICKNESS - FABRICATION BY CRYOGENIC STRETCH-FORMING
TPR-4 N64-31133 22-17

MECHANICS OF GEYSERING IN CRYOGENICS - PREDICTION METHOD OF SYSTEM GEOMETRY, FLUID PROPERTIES, AND HEATING RATE
NASA-CR-59321 N64-33768 24-11

CRYOPUMPING
CRYOPUMPING OF NITROUS OXIDE FOR CHAMBER PRESSURE PREDICTIONS
AEDC-TDR-63-267 N64-17520 09-19

MEASUREMENT OF CRYOPUMPING SPEED
N64-21014 14-23

CRYOSORPTION PUMPING OF HYDROGEN WITH MOLECULAR SIEVES OR CHARCOAL AS ADSORBENTS
AEDC-TDR-64-100 N64-21290 14-23

MODIFICATION OF SUPERSONIC FLOW FIELDS UNDER NEAR SPACE CONDITIONS BY CRYOPUMPING
AEDC-TDR-64-66 N64-21717 15-13

GAS AND CRYOSURFACE TEMPERATURE EFFECT ON CAPTURE COEFFICIENT OF SIX GASES
AEDC-TDR-64-84 N64-24178 16-13

CRYOGENIC PUMPING OF GASEOUS MIXTURES
ONERA-TP-109/1964 N64-28028 20-11

DESIGN ANALYSIS FOR ULTRAHIGH VACUUM SYSTEM OBTAINED BY CRYOGENIC PUMPING N64-28209 20-10

CRYOPUMPING CAPTURE COEFFICIENTS OF TWO NITROGEN-OXYGEN GAS MIXTURES
AEDC-TDR-64-150 N64-28578 20-23

CRYOSTAT
CF TEMPERATURE CONTROL
CF THERMOSTAT
CRYOSTAT DEVELOPMENT FOR APPLICATION IN NIKE-ZEUS RADAR SYSTEM
AD-425398 N64-19165 11-06

DEVICE FOR REFILLING LIQUID HELIUM CRYOSTATS WITH SMALL LOSS OF RESIDUAL LIQUID HELIUM
NASA-RP-279 N64-28300 20-17

CRYSTAL
SA LATTICE
SA POLYCRYSTAL
SA SINGLE CRYSTAL
SA YTTRIUM-ALUMINUM GARNET /YAG/ CRYSTAL
LIGHT SCATTERING IN HIGHLY REFLECTING PIGMENTED COATINGS - SILVER HALIDE CRYSTALS
NASA-CR-52187 N64-10089 01-19

CRYSTAL TENSILE STRENGTH AND ANNEALING EFFECT ON GERMANIUM CRYSTALS - EDGE DISLOCATIONS AND ELASTIC STRESSES IN SILICON
JPRS-17689 N64-10708 02-25

TENSILE TESTING OF THREADLIKE CRYSTALS OF COPPER, NICKEL, AND COBALT N64-10709 02-25

ANNEALING EFFECT ON DENSITY OF DISLOCATIONS AND COMPRESSION CURVES OF GERMANIUM CRYSTALS N64-10710 02-25

MECHANICAL PROPERTIES OF ORDERED COPPER-GOLD ALLOY CRYSTALS N64-10740 02-25

ENERGY OF PACKING DEFECTS OF LEAD IN DEFORMATION OF FACE-CENTERED CUBIC METAL CRYSTALS N64-10748 02-18

LARGE TUNGSTEN CRYSTALLITES GROWN BY RECRYSTALLIZATION DURING SINTERING OF TUNGSTEN SAMPLES N64-11019 02-25

DEMONSTRATION MODEL OF SPHERICAL PROJECTION FOR CUBIC CRYSTALS USED FOR DIFFRACTION PATTERN INTERPRETATION AND CRYSTALLOGRAPHY COURSES
NASA-RP-83 N64-11115 02-25

CREATION OF PHOTOACTIVE SURFACE ON LEAD SULFIDE CRYSTALS WITH ELECTRON CONDUCTION AND WITHOUT PHOTOCONDUCTIVE PROPERTIES
FTD-TT-62-1517 N64-11588 03-25

STRENGTH PROPERTIES OF METAL CRYSTALS - PLASTIC DEFORMATION & DISLOCATION OF WHISKER METALS
JPRS-22445 N64-12012 03-18

DUCTILE BENDING IN FACE CENTERED CUBIC IONIC SINGLE CRYSTALS
NASA-TR-R-186 N64-12108 03-25

ANISOTROPY OF MAGNETIC PROPERTIES OF METAL SINGLE CRYSTALS AT CRYOGENIC TEMPERATURES
FTD-TT-63-518/1&2 N64-12840 04-23

QUARTZ CRYSTALS FOR FILTER APPLICATION AT 30, 45, AND 60 MEGACYCLES - EVALUATION
AD-423885 N64-13124 04-15

DURABILITY AND INTERNAL FRICTION OF SINTERED ALUMINUM POWDER CRYSTALS DURING CYCLIC HEAT TREATMENT N64-13737 05-18

AUTOMATIC PRECISION CURVED-CRYSTAL GAMMA-RAY SPECTROMETER
IS-575 N64-13947 05-15

LOW FREQUENCY CRYSTAL APPARATUS AND RESONATORS FOR RADIATION AND RELIABILITY STUDIES
AD-426953 N64-14120 05-09

OPTICAL MODULATION & DEMODULATION TECHNIQUES USING ELECTRO-OPTICAL PROPERTIES OF CRYSTALS
RN-166 N64-14915 06-23

THEORY OF X-RAY ABSORPTION OF MOLECULAR BONDING IN GASES AND IONIC CRYSTALS IN SOLUTIONS
N64-16217 08-23

PHYSICAL METALLURGY OF SOLID SOLUTIONS, ALLOYS, AND CRYSTALS
FTD-TT-63-510/1&2&4 N64-16602 08-18

PERFECTION AND STRENGTH OF CRYSTALS
N64-16606 08-25

FAR INFRARED SPECTRA OF CRYSTALS AND SOLIDS AT CRYOGENIC AND ROOM TEMPERATURES
AFCRL-64-22 N64-16822 08-23

LOW POWER TEMPERATURE CONTROL OF QUARTZ CRYSTALS
QR-1 N64-16955 09-06

EFFECTS OF CRYSTAL ORIENTATION ON DIFFUSION AND ADSORPTION IN METALS N64-17040 09-25

PHOTOVOLTAIC EFFECTS IN ORGANIC AND INORGANIC CRYSTALS AND THIN FILMS
AFCRL-63-432 N64-17511 09-25

COHESIVE ENERGY OF IONIC CRYSTALS
SR-2 N64-17620 09-25

INTERDIFFUSION IN METALLIC SINGLE CRYSTALS
AD-433509 N64-17808 09-25

OXIDE THIN FILM LAYER EFFECT ON SHEAR STRENGTH OF METAL CRYSTALS
BMPR-2 N64-18464 10-25

CORRECTION AND EXTENSION OF EVJEN METHOD FOR EVALUATING CRYSTAL POTENTIALS BY MEANS OF LATTICE SUMS N64-18660 11-25

LOW CHROMIUM AREAS AS CAUSE OF STAINLESS STEEL CRYSTAL CORROSION N64-19449 12-18

INTERFEROMETRIC MEASUREMENT OF INDEX OF REFRACTION OF CRYSTALLINE MATERIALS
AFCRL-64-175 N64-20088 13-15

EXTENSION OF GREEN FUNCTION METHOD TO STUDY OF FERROMAGNETIC CURIE TEMPERATURE IN CUBIC LATTICES WITH NEXT NEAREST NEIGHBOR INTERACTION
TR-13 N64-20146 13-25

SYNTHESIS OF CRYSTALLINE ESTERS FROM CYCLIC ALCOHOLS AND CHEMICAL REACTIONS OF AMINES
AROD-2381-5 N64-20332 13-20

PROBABILITY OF PHONONLESS TRANSITION IN CENTERS OF IMPURITY IN CRYSTALS
RSIC-156 N64-20459 13-25

CRYSTAL AND ATOMIC CLOCK FREQUENCY STANDARDS FOR AIR NAVIGATION
TR-0373 N64-20493 13-15

X-RAY FLUORESCENCE TABLES - LITHIUM FLUORIDE CRYSTAL
Y-1470-C N64-21039 14-25

PARAMAGNETIC RELAXATION IN CRYSTALS
AFCRL-64-307 N64-21316 14-25

ABSORPTION CORRECTIONS FOR INTENSITY OF X-RAYS SCATTERED BY WEAKLY ABSORBING POLYTYPE-CRYSTALLINE MATERIALS
BM-RI-6455 N64-21406 14-19

OPTICAL TESTS ON RUBY CRYSTAL SAMPLES
NRL-6080 N64-21488 14-25

KA-BAND CRYSTAL PROTECTOR
AD-431647 N64-21532 15-09

QUARTZ CRYSTAL OSCILLATOR
TP-68-994 N64-21842 15-09

X-RAY FLUORESCENCE TABLES - GYPSUM CRYSTAL
Y-1470-E N64-21854 15-25

QUARTZ CRYSTAL UNITS FOR USE IN SINGLE-SIDEBAND VOICE-COMMUNICATION EQUIPMENT
REPT.-1 N64-21997 15-25

LIQUID CRYSTALS - ANISOTROPY
FTD-TT-63-958/1&2 N64-22359 15-07

BRAGG ANGLES FOR SOFT X-RAY EMISSION LINES USING POTASSIUM ACID PHTHALATE AND RUBIDIUM ACID PHTHALATE ANALYZING CRYSTALS
ML-TDR-64-2 N64-22374 15-25

PRODUCTION METHOD FOR QUARTZ CRYSTALS USED IN RELIABILITY STUDY
REPT.-3 N64-22716 15-25

HYBRID MODULE - THERMOELECTRIC TEMPERATURE CONTROL FOR QUARTZ CRYSTALS AND CRYSTAL OSCILLATORS
REPT.-6 N64-23167 16-25

QUARTZ CRYSTAL SEALING UNITS IN MINIATURE GLASS CRYSTAL HOLDERS
AD-436089 N64-23251 16-19

CHANGE OF DISLOCATION STRUCTURE OF METALS DURING CYCLIC STRESS N64-23449 16-33

HIGH PRECISION CRYSTALS - UNITS FOR AIRBORNE FREQUENCY SOURCES
ASD-TDR-62-1054 N64-24867 17-09

DOUBLE REFRACTION ARTIFICIALLY PRODUCED BY COMPRESSION OF REGULAR CRYSTALS
RSIC-185 N64-25221 17-25

BROADBAND MICROWAVE POWER LIMITERS - SCALING, BIAS CRYSTALS, DIODE MOUNTS, AND LOW POWER PERFORMANCE OF L BAND-S BAND UNIT
QPR-3 N64-25527 17-09

FABRICATION AND BONDING OF QUARTZ CRYSTALS FOR SINGLE SIDEBAND VOICE COMMUNICATIONS EQUIPMENT
REPT.-2 N64-25618 17-25

ELECTRIC EXCITATION OF FLUORESCENCE IN MAGNESIUM OXIDE CRYSTALS DOPED WITH CHROMIUM IONS
ML-1036 N64-27233 19-25

FERRIMAGNETIC RESONANCE RELATIONS FOR MAGNETIC CRYSTALLINE ANISOTROPY IN CUBIC CRYSTALS
AFCRL-64-72 N64-27423 19-25

CALCULATION OF ELECTRON DIFFRACTION PATTERNS FROM TWINNED REGIONS OF CUBIC CRYSTALS
ARPA-E7 N64-27685 19-18

ENERGY TRAPPING THEORY FOR MULTIELECTRODE RESONATOR DESIGN - VERY HIGH FREQUENCY FILTER CRYSTAL DEVELOPMENT
QR-3 N64-27696 19-09

ELECTRON-PHONON INTERACTIONS IN CRYSTALS FOR USE AS SEMICONDUCTOR DEVICES
REPT.-3 N64-27770 19-25

MICROMINIATURE CRYSTAL UNITS
REPT.-4 N64-27846 19-17

PRODUCTION METHODS FOR OVERTONE FILTER CRYSTALS
QR-7 N64-27848 19-17

NUCLEAR RADIATION EFFECTS ON CRYSTAL FREQUENCY CONTROL DEVICES
REPT.-6 N64-27855 19-23

FERROMAGNETIC RESONANCE MEASURED ON CRYSTAL ORIENTED HEXAGONAL FERRITES
NDL-TR-1227 N64-27933 20-25

ANIONIC IMPURITIES IN SURFACE REGION OF SODIUM CHLORIDE CRYSTALS
NASA-TN-D-2434 N64-27944 20-07

AGING EFFECTS ON LOW FREQUENCY QUARTZ CRYSTAL RESONATORS
QR-4 N64-27949 20-25

RELATIONSHIP BETWEEN SPURIOUS RESPONSE AND MECHANICAL TOLERANCES & FABRICATION PROCESS TECHNIQUES - FILTER CRYSTAL DEVELOPMENT
REPT.-1 N64-28150 20-09

VACUUM DEPOSITION OF ALUMINUM AND POLISHING MACHINE FOR QUARTZ CRYSTAL RESONATOR FABRICATION
REPT.-2 N64-28151 20-17

PERFORMANCE DATA ON FILTER CRYSTALS
USAELRDL-TR-2443 N64-28603 20-25

PRODUCTION METHODS FOR RUGGEDIZED QUARTZ CRYSTAL OSCILLATORS
QPR-6 N64-28620 20-09

ABSORPTION OF ULTRASONIC WAVES IN LITHIUM FLUORIDE CRYSTALS
NASA-CR-58584 N64-29008 20-25

FIGURES-OF-MERIT FOR PHOTODEVICES, OPTICAL MIXERS USING PHOTOELECTRIC EMISSION, OPTICAL MIXING IN SEMICONDUCTORS, & MIXING IN INSULATING CRYSTALS
AFCRL-63-508 N64-29279 21-09

SYNTHESIS OF CRYSTALLINE SOLIDS BY VARYING PROPORTIONS OF ANTIMONY PENTAFLUORIDE AND XENON HEXAFLUORIDE
TR-49 N64-29346 21-07

QUARTZ CRYSTAL FILTERS FOR 70 TO 150 MC RANGE
REPT.-523-1000615-00152M N64-29395 21-09

IMPROVED TEMPERATURE CHARACTERISTICS OF CRYSTAL UNITS TO COMPENSATE A-T ORIENTATED RESONATOR
SCL-6609 N64-29397 21-09

SEALING PROCESSES FOR GLASS ENCLOSED QUARTZ CRYSTAL UNITS
REPT.-8 N64-29638 21-09

TIGHTER TOLERANCE CRYSTAL UNITS HAVING TEMPERATURE COMPENSATION AND FREQUENCY ADJUSTMENT FEATURES
REPT.-3 N64-29679 21-09

GROWTH OF LARGE CUBIC CRYSTALS FOR LASERS FROM STANNATES, TITANATES, AND ZIRCONATES OF BARIUM AND STRONTIUM
AD-442555 N64-29681 21-25

PRIMARY FREQUENCY STANDARD COMPARISON SYSTEM FOR CRYSTAL UNITS
AD-602172 N64-29685 21-08

IMPROVING FREQUENCY PRECISION AND STABILITY OF 5 MC SINGLE SIDEBAND QUARTZ CRYSTALS
REPT.-3 N64-29861 21-25

STATIC AND DYNAMIC PERTURBATIONS EFFECT ON SHARP OPTICAL TRANSITIONS IN CRYSTALS
ML-1190 N64-29873 21-25

X-RAY DIFFRACTION MEASUREMENTS OF CRYSTAL ORIENTATION RATE IN CRYSTALLINE POLYMERS SUBJECTED TO VIBRATIONAL STRESS
ONR-TR-69 N64-30175 21-25

STABILITY AND Q-FACTOR OF QUARTZ CRYSTALS EXCITED BY PARALLEL FIELD TECHNIQUE
AD-602722 N64-30189 21-25

LIFE TESTS ON COMBINATION DEVICES INCORPORATING GAS PRETRANSMITTER-RECEIVER ELECTRON TUBE, GAS CRYSTAL PROTECTOR, AND SOLID STATE P-I-N SWITCH
QPR-5 N64-30457 22-09

FREQUENCY TEMPERATURE COMPENSATION IN SMALL QUARTZ CRYSTAL OSCILLATOR
PUBL.-3032-64 N64-30552 22-09

MEASUREMENTS OF DARK CONDUCTIVITIES IN FERROCENE CRYSTALS
TR-2459 N64-30581 22-25

COMBUSTION & FORMATION HEATS OF CRYSTALLINE BORON AND TRIMETHYLAMINEBORANE
AD-402335 N64-30679 22-07

FLUORESCENCE OF TRANSITION METAL IONS IN CRYSTALS
TR-190 N64-30690 22-25

ANALYZING OR DISPERSING CRYSTAL FOR X-RAY SPECTROSCOPY
ASD-TDR-63-311 N64-30709 22-25

DISTRIBUTION ANALYSIS OF CRYSTALLITE SIZES FROM DETAILED PROFILES OF X-RAY DIFFRACTION LINES OF POWDER
SR-13 N64-31071 22-25

RELIABILITY AND FAILURE OF QUARTZ CRYSTALS
REPT.-4 N64-31129 22-17

POSSIBLE ROLE OF CRYSTALS IN ORIGIN OF LIFE - BIOGENESIS
UR-656 N64-32074 23-16

AUTOMATIC DETERMINATION OF MELTING POINT OF CRYSTALLINE SOLIDS BASED ON BIREFRINGENCE CHANGE AS ANISOTROPIC FORM CHANGES TO ISOTROPIC MELT
GE/EE/63-17 N64-32174 23-07

FAILURE OF QUARTZ FREQUENCY CONTROL CRYSTALS
QPR-2 N64-32556 23-25

SOLID STATE PHYSICS - THEORY, CRYSTALS, METALS, NONMETALS, AND RADIATION METALLURGY
ORNL-3676 N64-32925 24-25

ELECTRIC AND OPTICAL PROPERTIES OF CRYSTALS FOR SUBMILLIMETER MASER
NASA-CR-59288 N64-33332 24-25

TEMPERATURE INDEPENDENT GRUNEISEN PARAMETER IN TERMS OF LATTICE PARAMETERS OF MONATOMIC CUBIC CRYSTAL
NOLTR-64-143 N64-33362 24-25

CRYSTAL STABILIZED HARTLEY OSCILLATOR CIRCUIT AND BASIC OSCILLATOR CIRCUIT
AD-447809 N64-33659 24-09

DEFORMATION OF IRON AND HIGH PURITY CUBIC CRYSTALS, STRESS RELAXATION OF ZONE REFINED IRON, AND BAUSCHINGER EFFECT PHENOMENON
AD-447829 N64-33670 24-25

ABSORPTION AND EMISSION SPECTRA STUDIES OF CALCIUM FLUORIDE AND CADMIUM FLUORIDE CRYSTALS DOPED WITH TRANSITION METAL AND/OR RARE EARTH IONS FOR USE AS LASER HOSTS
AD-446246 N64-33749 24-25

RADIATION DAMAGE AND EFFECTS IN CRYSTALS AND ORGANIC MATERIAL
NASA-CR-52949 N64-33783 24-23

THEORETICAL CALCULATION FOR POLARIZING FIELD IN MONATOMIC CUBIC CRYSTAL LATTICE
N64-33834 24-25

MICROWAVE CIRCUIT DEVICES TO CONTROL COHERENT OPTICAL BEAMS USING BIREFRINGENT CRYSTALS - LASER RADIATION
RM-234J N64-33839 24-25

N-TYPE SEMICONDUCTOR GERMANIUM CRYSTALS WITH POLYMER COATINGS
FTD-TT-64-467/1&2 N64-33940 24-25

TRANSISTORIZED QUARTZ-CRYSTAL FREQUENCY STANDARD AND SYSTEM OF FREQUENCY DIVIDERS AND MULTIPLIERS
JPRS-27110 N64-33959 24-09

CRYSTAL DISLOCATION
VACANCY CLIMB OF HELICAL AND LOOP DISLOCATIONS IN ALUMINUM-MAGNESIUM ALLOY AND VACANCY BINDING - ENERGY ESTIMATION
UCRL-10879 N64-10185 01-18

EXPOSURE OF DISLOCATIONS IN RARE EARTH CRYSTALS
JPRS-17638 N64-10705 02-18

SILICON SINGLE CRYSTAL - EXPOSING DISLOCATIONS BY ETCHING N64-10706 02-18

METHODS OF EXPOSING DISLOCATIONS IN CRYSTALS N64-10707 02-18

INTERACTION OF EDGE DISLOCATIONS WITH VACANCIES IN SILICON N64-10711 02-25

SOLID STATE PHYSICS - FRICTION OF DISLOCATION IN MONOCRYSTALS & MECHANICAL PROPERTIES OF COPPER-GOLD ALLOYS
JPRS-18062 N64-10738 02-25

FRICTIONAL FORCE ACTING ON MOVING DISLOCATION IN CRYSTALS N64-10739 02-25

DISLOCATIONS IN SILICON SINGLE CRYSTALS ON DISSOLUTION N64-10741 02-25

DISLOCATION OF ZINC CRYSTAL STRUCTURES, ALLOY DEFORMATION STUDY BY ELECTRON MICROSCOPE
JPRS-18154 N64-10745 02-18

SELECTIVE ETCHING METHOD FOR DISLOCATION STRUCTURE IN ZINC CRYSTALS DURING GROWTH AND DEVELOPMENT N64-10746 02-18

ELECTRON MICROSCOPE STUDY OF SLIP FLOW TRANSITION IN DEFORMATION OF COPPER-GOLD AND COPPER-PALLADIUM ALLOYS N64-10747 02-18

CRYSTAL DISLOCATION, INTERNAL FRICTION, AND DYNAMIC MODULUS OF FACE CENTERED CUBIC METALS AFTER DEFORMATION N64-11630 03-25

INTERNAL FRICTION DUE TO DISLOCATION IN SILICON CRYSTALS WITH CONTROLLED DEGREES OF PLASTIC DEFORMATION
ASD-TDR-62-431, PT. 2 N64-12670 04-25

DISLOCATIONS IN CRYSTALS OF SALTS AND METALS AND THEIR BEHAVIOR DURING STRESS, TWINNING, AND ETCHING
JPRS-22076 N64-12757 04-25

EQUATIONS AND CURVES FOR METAL STRENGTHENING WITHIN STATISTICAL THEORY OF DISLOCATIONS N64-12758 04-25

EFFECT OF DISLOCATIONS ON EFFECTIVE DIFFUSION COEFFICIENTS OF GALLIUM, INDIUM, ANTIMONY, AND ARSENIC IN GERMANIUM N64-12759 04-25

DISLOCATION STRUCTURE IN LEAD SULFIDE CRYSTALS AS REVEALED BY CONCENTRATED STRESS LOADING AND SELECTIVE ETCHING N64-12760 04-25

INTERACTION OF DISLOCATIONS DURING TWINNING OF CRYSTALS OF CALCITE AND OF ZINC N64-12761 04-25

SHEAR DEVELOPMENT UNDER STRESS AND DISLOCATION STRUCTURE IN IMPURE SODIUM CHLORIDE CRYSTALS N64-12762 04-25

X-RAY DIFFRACTION METHODS APPLIED TO SUBSTRUCTURE AND DISLOCATION DISTRIBUTION OF SINGLE CRYSTAL AND POLYCRYSTALLINE ALUMINUM N64-12763 04-25

UNIFORMLY MOVING DISLOCATIONS IN ISOTROPIC MEDIA - FRACTURE MECHANICS
RAC-1699 N64-13841 04-25

DISLOCATION STUDIES OF METAL CRYSTALS
JPRS-23509 N64-16121 08-25

CRYSTAL LATTICE STATE AND DISLOCATION DENSITY IN AUSTENITE & FERRITE DURING PHASE TRANSFORMATIONS N64-16122 08-25

KINETIC THEORY OF DISLOCATIONS N64-16123 08-25

DISLOCATION THEORY OF BRITTLE FRACTURE IN METALS WITH BODY-CENTERED CUBIC AND HEXAGONAL LATTICES N64-16124 08-25

DISLOCATION CONFIGURATIONS IN ZONE-MELTED SINGLE CRYSTAL MOLYBDENUM N64-17448 09-25

CRYSTAL DISLOCATION AND ORIENTATION EFFECT ON DOUBLE LAYER CAPACITY OF SILVER ELECTRODE SURFACES
AD-434716 N64-24061 16-25

GROWTH OF COPPER CRYSTALS OF LOW DISLOCATION DENSITY N64-29096 21-25

ETCHING OF DISLOCATIONS IN RUBY AND SAPPHIRE WITH PHOSPHORIC ACID AT HIGH TEMPERATURES N64-30780 22-25

CRYSTAL RESONATORS FOR OSCILLATOR AND FILTER
AD-602840 N64-30788 22-09

FRESH, AGED, GROWN-IN, AND HIGH TEMPERATURE DISLOCATIONS IN INITIATION OF PLASTIC FLOW IN MAGNESIUM OXIDE SINGLE CRYSTALS
TR-24 N64-32061 23-25

TRANSMISSION ELECTRON MICROSCOPE STUDY OF DISLOCATED CRYSTAL ARRANGEMENTS IN FATIGUED BERYLLIUM
NASA-CR-59031 N64-32894 24-11

CRYSTAL GROWTH
FORMATION OF CALCIUM PHOSPHATE CRYSTALS
UR-628 N64-10189 01-07

BIBLIOGRAPHY ON EPITAXIAL GROWTH OF SEMICONDUCTOR MATERIALS
LS-BIB-63-3 N64-10622 01-09

CRYSTAL GROWTH AND KINETICS OF FORMATION
FLIGHT TEST DATA ON LONGITUDINAL, LATERAL, AND DIRECTIONAL STABILITY AND CONTROL DERIVATIVES OF X-15 AIRCRAFT
JPRS-18257 N64-10638 01-25

CRYSTALLINE GROWTH AND STRUCTURE DEVELOPMENT AND RELATED PROPERTIES TO ELECTRONICS, SEMICONDUCTOR, AND RADIOENGINEERING TECHNOLOGY
JPRS-18012 N64-10737 02-23

SELECTIVE ETCHING METHOD FOR DISLOCATION STRUCTURE IN ZINC CRYSTALS DURING GROWTH AND DEVELOPMENT N64-10746 02-18

GROWING OF URANIUM DIOXIDE SINGLE CRYSTALS FROM VAPOR
EUR-345.E N64-11399 02-21

LASER MATERIALS - SELECTION, SYNTHESIS & DOPING OF HOST MATERIAL, SINGLE CRYSTAL GROWTH N64-12561 04-25

ORIENTED COPPER SINGLE CRYSTAL GROWTH, CHEMICAL POLISHING, ELECTROCHEMICAL CUTTING, AND TENSION & COMPRESSION GRIPS
RAC-921-1 N64-13603 05-25

GROWTH OF OPTICAL CRYSTALS SUITABLE FOR LASER OPERATION
ASE-466 N64-13720 05-25

PREPARATION OF MIXED CRYSTALS OF GALLIUM ARSENIDE AND GALLIUM PHOSPHIDE FOR CONSTRUCTION OF DIODES N64-13751 05-25

GROWTH OF MIXED CRYSTALS OF GALLIUM ANTIMONIDE & GALLIUM INDIUM ANTIMONIDE FOR DIODES N64-13752 05-25

SINGLE CRYSTAL GROWTH BY ELECTROCHEMICAL TECHNIQUES
AFCRL-63-542 N64-13801 05-25

TECHNIQUES FOR PREPARATION OF SINGLE CRYSTAL TELLURIUM
MEMO-2900 N64-14482 06-25

POTASSIUM CHLORIDE CRYSTAL PURIFICATION AND GROWTH IN LIQUID HYDROGEN SULFIDE
AD-407600 N64-14506 06-25

SPECULAR REFLECTION & ABSORPTION OF RUTILE AND GROWTH OF CRYSTALS BY FLAME FUSION
MIT-TR-184 N64-15011 07-01

FLAME FUSION TECHNIQUE FOR GROWING OXIDE CRYSTALS
N64-15013 07-25

SOLUBILITY OF METAL OXIDES IN SUPERCRITICAL AQUEOUS SOLUTIONS IN STUDY OF SINGLE CRYSTAL GROWTH
AFCRL-64-38 N64-17124 09-25

GROWTH OF SINGLE CRYSTAL TUNGSTEN FILAMENT AND VACUUM MEASUREMENTS OF ELECTRON EMISSION FROM FILAMENT N64-17904 10-23

VAPOR PHASE GROWTH OF SINGLE CRYSTALS
AFCRL-64-57 N64-17920 10-25

DISPROPORTIONATION GROWTH OF EPITAXIAL GERMANIUM, AND REDUCTION GROWTH OF SINGLE CRYSTALS
AFCRL-64-63 N64-18038 10-25

GROWTH OF SINGLE CRYSTAL BERYLLIUM OXIDE FOR USE AS SUBSTRATE IN MICROELECTRONIC DEVICES
NASA-CR-56190 N64-20815 14-19

CORRELATION OF LASER PERFORMANCE WITH OPTICAL QUALITY OF RUBY CRYSTAL
USAELRDL-TR-2408 N64-20848 14-25

SEMICONDUCTOR MATERIALS - GALLIUM ARSENIDE AND GALLIUM ARSENIDE-GALLIUM PHOSPHIDE DIODE ARRAYS AND GROWTH OF BORON PHOSPHIDE CRYSTALS
AD-433725 N64-22056 15-25

EFFECT OF ELASTIC INTERACTION ON KINETICS OF CRYSTAL CLUSTER GROWTH
ARCO-3870-1 N64-23951 16-18

HEATING RATE EFFECTS ON TEMPERATURE RANGES IN ANNEALING OF STEEL - CRYSTAL FORMATION & GROWTH IN ALLOYS
FTD-TT-63-48/1&2 N64-25428 17-18

PREPARATION OF MOLYBDENUM SINGLE CRYSTALS BY ELECTRON-BEAM FLOATING-ZONE MELTING
FTD-TT-64-350/1&2&3&4 N64-26121 18-17

REFRACTIVE INDEX, VACUUM COATING, AND CRYSTAL GROWTH OF LEAD CHLORIDE, ZINC TELLURIDE, AND LITHIUM FLUORIDE FILMS
AD-600264 N64-26622 18-25

MOLECULAR CRYSTAL GROWTH - RAMAN STUDIES AT LOW TEMPERATURES
TR-17 N64-26762 18-07

CONFERENCE ON CRYSTAL GROWTH, MOLTEN SALTS AND SLAGS, PLANT DISEASES, AND SYNTHETIC DIAMONDS
JPRS-25417 N64-28008 20-01

PILOT LINE FOR FABRICATION OF SILICON CARBIDE RECTIFIERS - CRYSTAL GROWTH AND PROCESSING
ASD-IR-7-727-10 N64-28678 20-25

SINGLE CRYSTAL GROWTH, AND DETERMINATION OF THERMAL AND DIELECTRIC PROPERTIES OF BERYLLIUM OXIDE FOR USE IN MICROELECTRONICS
NASA-CR-58527 N64-28843 20-25

GROWTH AND PROPERTIES OF FILAMENTARY SINGLE CRYSTALS OF PURE METALS - COPPER, SILVER, GOLD, AND ALUMINUM
ASD-TDR-63-641 N64-29250 21-25

GROWTH OF LARGE CUBIC CRYSTALS FOR LASERS FROM STANNATES, TITANATES, AND ZIRCONATES OF BARIUM AND STRONTIUM
AD-442555 N64-29681 21-25

FABRICATION OF CRYSTALS FOR OPTICAL MASER
AD-438422 N64-30143 21-25

CRYSTALLOGRAPHY, CRYSTAL GROWTH & CHEMISTRY, GLASS, IONS FOR LASERS, AND ANNOTATED BIBLIOGRAPHY ON LASER MATERIALS
NASA-CR-75 N64-30992 22-25

GROWTH & CHARACTERIZATION OF SINGLE CRYSTALS OF RARE EARTH COMPOUNDS
QTR-1 N64-31625 23-25

DEFECTS IN FLUX-GROWN RUBY CRYSTALS
TDR-469/9250-01/-1 N64-31635 23-25

SILICON CARBIDE RECTIFIER PROGRAM - CRYSTAL GROWTH AND JUNCTION FORMATION TECHNIQUES, FABRICATION OF EPITAXIAL RECTIFIER, AND LIFE AND STORAGE TESTING OF DEVICES
ASD-IR-7-727/VIII N64-31916 23-25

RUBY LASER CRYSTAL GROWTH
ASD-TDR-63-747 N64-32523 23-25

GLASS TECHNOLOGY - OXIDATION REDUCTION AND OPTICAL ABSORPTION, NUCLEATION AND CRYSTAL GROWTH, MELTING AND REFINING, AND ELECTRICAL PROPERTIES OF GLASS
ONRL-48-64 N64-32539 23-19

BETA SILICON CARBIDE FOR SEMICONDUCTORS - CRYSTAL GROWTH AND PURIFICATION FROM NITROGEN
REPT.-12 N64-32973 24-25

CRYSTAL LATTICE
PRECISE DETERMINATION OF LATTICE PERIODS OF BORON CARBIDES OF B2.75 TO B6.75 COMPOSITION BY ROENTGENOGRAPHS - LARGE-ANGLES METHOD
N64-10676 02-19

LATTICE TYPE & IONIC DISTRIBUTION OF PER-ALKYL AMMONIUM, PHOSPHONIUM, AND SULFONIUM SALT HYDRATE CRYSTALS N64-10979 02-25

INSTALLATION FOR X-RAY STRUCTURAL ANALYSIS OF RADIOACTIVE MATERIALS AND RADIATION DISRUPTION IN ALLOY AND METAL CRYSTAL LATTICES
N64-13739 05-23

CRYSTAL LATTICE STATE AND DISLOCATION DENSITY IN AUSTENITE & FERRITE DURING PHASE TRANSFORMATIONS
N64-16122 08-25

X-RAY SCATTERING FROM CRYSTAL LATTICE OF ALLOYS - STUDY OF ATOMIC INTERACTIONS N64-17041 09-25

HARDENING AND SOFTENING MECHANISM IN CRYSTAL LATTICES - MICROSTRUCTURE THEORY
N64-17050 09-25

FORTRAN III /IBM 7090 COMPUTER/ PROGRAM FOR THREE-SUBLATTICE MAGNETIZATION CALCULATIONS
NOLTR-63-32 N64-18589 11-20

CORRECTION AND EXTENSION OF EVJEN METHOD FOR EVALUATING CRYSTAL POTENTIALS BY MEANS OF LATTICE SUMS N64-18660 11-25

EXTENSION OF GREEN FUNCTION METHOD TO STUDY OF FERROMAGNETIC CURIE TEMPERATURE IN CUBIC LATTICES WITH NEXT NEAREST NEIGHBOR INTERACTION
TR-13 N64-20146 13-25

SOLID SOLUTIONS OF QUASI-BINARY SYSTEM INDIUM PHOSPHIDE-GALLIUM PHOSPHIDE - CRYSTALLINE LATTICE IDENTIFICATION
FTD-TT-64-151/1&2 N64-28528 20-25

CRYSTAL LATTICE PARAMETERS AND SPACE GROUPS OF AMINOBORANES DETERMINED BY X-RAY PHOTOGRAPHY
FTR-1 N64-29724 21-07

FOURIER ANALYSIS OF INTERFERENCE LINES FROM CRYSTAL LATTICE MICRODISPLACEMENT
N64-32847 24-25

TEMPERATURE INDEPENDENT GRUNEISEN PARAMETER IN TERMS OF LATTICE PARAMETERS OF MONATOMIC CUBIC CRYSTAL
NOLTR-64-143 N64-33362 24-25

THEORETICAL CALCULATION FOR POLARIZING FIELD IN MONATOMIC CUBIC CRYSTAL LATTICE
N64-33834 24-25

STRESS-STRAIN ANALYSIS OF CRYSTAL LATTICE AND DUCTILE-BRITTLE TRANSITION IN TUNGSTEN BY X-RAY DIVERGENT BEAM METHOD
ML-TDR-64-220 N64-33914 24-18

CRYSTAL STRUCTURE
SA ANISOTROPY
CF BODY CENTERED CUBIC /BCC/ CRYSTAL
CRYSTALLOCHEMICAL STRUCTURE OF RARE EARTH BORIDES RELATED TO THERMIONIC EMISSION AND MAGNETIC, ELECTRIC, AND THERMOELECTRIC PROPERTIES
N64-10675 02-19

CRYSTALLINE GROWTH AND STRUCTURE DEVELOPMENT AND RELATED PROPERTIES TO ELECTRONICS, SEMICONDUCTOR, AND RADIOENGINEERING TECHNOLOGY
JPRS-18012 N64-10737 02-23

STRUCTURE OF TETRA N-BUTYL AMMONIUM FLUORIDE HYDRATE CRYSTALS N64-10978 02-28

LATTICE TYPE & IONIC DISTRIBUTION OF PER-ALKYL AMMONIUM, PHOSPHONIUM, AND SULFONIUM SALT HYDRATE CRYSTALS N64-10979 02-25

COMPUTER PROGRAM FOR DETERMINATION OF SINGLE CRYSTAL ORIENTATION
LA-2974 N64-11389 02-26

CRYSTAL STRUCTURE OF BARIUM CHLORIDE, BROMIDE, AND IODIDE N64-11422 02-25

ASPECTS OF CRYSTAL TENSION ENERGY - TENSILE STRESS EFFECT UPON MAGNETIZING CURVE
E-T-G-63-12 N64-12203 03-23

FREQUENCY DISTRIBUTION IN BIMETALLIC ALLOY CRYSTALS - LATTICE VIBRATION
RSIC-82 N64-12205 03-18

TANTALUM CRYSTAL SURFACE STRUCTURE AS FUNCTION OF HEAT TREATMENT AND ION BOMBARDMENT
NASA-CR-52930 N64-12398 03-23

STRUCTURAL DEFECTS OF GERMANIUM CRYSTALS N64-12774 04-23

ALUMINUM OXIDE - CRYSTAL STRUCTURE, ORIENTATION, & RECRYSTALLIZATION
EUR-403.I N64-13051 04-19

ANHARMONICS PROBLEM - EIGENVALUES OF OSCILLATORS EVALUATED, BROADENED INTERLEVEL SPACING, AND PROPOSED PARTITION FUNCTION FOR CRYSTAL PROPERTIES
AMRA-TR-63-20 N64-13115 04-23

CRYSTAL STRUCTURE OF SODIUM HYDROGEN FLUORIDE
IS-678 N64-13194 04-23

MICROSTRUCTURE IN LINEAR ELASTICITY
T. R.-50 N64-13240 04-23

POLARIZED CRYSTAL SPECTRA OF TRANSITION METAL COMPLEXES
AD-424181 N64-13616 05-23

ARSENIC AND PHOSPHOROUS DOPED CRYSTALS EVALUATION FOR TRANSISTOR EFFECT ON RADIATION RESISTANCE
QR-1 N64-13619 05-25

FORTRAN PROGRAMMING INSTRUCTIONS FOR CRYSTAL STRUCTURE ANALYSIS
NRL-5885 N64-13757 05-20

SYNTHESIS OF CRYSTALLIZED GEMS BY FUSING AMMONIA AND ALUM
E-T-F-63-5 N64-13987 05-25

CRYSTAL STRUCTURE & LATTICE ENERGY OF POLYPEPTIDE AND POLYETHYLENE POLYMERS - HELICAL MACROMOLECULES
AD-425881 N64-14031 05-23

CARBIDES - FORMULAS, COMPOSITION RANGES, CRYSTAL STRUCTURE, & PREPARATION DATA
IS-722 N64-14243 06-19

VIBRATION MODES OF ANISOTROPIC HEXAGONAL METALLIC ZINC CRYSTALS
AMRA-TR-63-19 N64-14690 06-25

SOVIET STUDIES ON DISLOCATIONS & CRYSTAL STRUCTURE
JPRS-22981 N64-15014 07-25

ORIENTATION MECHANISM OF CRYSTALLINE POLYMERS
ONR-TR-64 N64-16085 07-25

X-RAY DIFFRACTION RESEARCH ON METAL AND ALLOY CRYSTALLINE STRUCTURES
JPRS-23510 N64-16216 08-25

STRUCTURE PRINCIPLES OF X-RAY K-ABSORPTION EDGE OF ATOMS IN CRYSTALS OF POTASSIUM HALIDES
N64-16220 08-25

ELECTRIC RESISTANCE AND X-RAY STUDY OF CRYSTAL STRUCTURE ORDERING TRANSFORMATION IN GOLD-COPPER ALLOYS
AD-431106 N64-16339 08-25

CRYSTAL STRUCTURE ANALYSIS OF STRONTIUM BROMIDE, DETERMINING BROMINE ATOM POSITIONS
N64-16685 08-25

SINGLE CRYSTAL AND X-RAY DIFFRACTION METHODS FOR STUDING CRYSTAL STRUCTURE OF LEAD CHLORIDE
N64-16687 08-25

CHANGES IN FINE CRYSTAL STRUCTURES DURING AGE HARDENING OF NICKEL AND IRON-NICKEL ALLOYS
N64-17046 09-11

CRYSTAL STRUCTURE - ENERGY BAND EVALUATION, SYMMETRY PROPERTIES, AND POTENTIALS
AD-429325 N64-18657 11-25

AUGMENTED PLANE WAVE METHOD FOR CALCULATING ENERGY BANDS IN CRYSTAL STRUCTURES N64-18658 11-25

NEW SPACE GROUP TECHNIQUE FOR OBTAINING IRREDUCIBLE REPRESENTATIONS RELATED TO STANDARD TECHNIQUE N64-18659 11-25

PROTON DAMAGES IN SILICON SEMICONDUCTOR CRYSTAL STRUCTURE
NASA-CR-40 N64-18952 11-25

VACANCY INTERACTION ENERGIES IN SILVER WIRE FROM ELECTRICAL RESISTIVITY INCREASE
FTD-TT-63-124/1&2 N64-19181 11-25

FORMATION AND COMPOSITION OF CRYSTALS IN FOAMED GLASS
FTD-TT-63-275/1&2&4 N64-19745 12-11

CRYSTALLINE FORMS IN FOAMED GLASS
N64-19746 12-11

COMPOSITION OF CRYSTALLINE PHASE OF FOAMED GLASS
N64-19747 12-11

MAGNETIC BREAKDOWN IN CRYSTALS, SPACE GROUP SYMMETRY, SPHERICAL HARMONICS, AND COVALENCY IN CRYSTAL FIELD THEORY
QPR-52 N64-20412 13-25

COVALENCY IN CRYSTAL FIELD THEORY USING CLUSTER MODEL FOR POTASSIUM NICKEL FLUORIDE
N64-20416 13-25

X-RAY ANALYSIS OF MICROSCOPIC DIFFRACTION OF RUBY CRYSTAL STRUCTURES N64-20931 14-25

NORMAL SPIN-WAVE MODES OF COMPLEX EXCHANGE-COUPLED CRYSTAL STRUCTURES
NRL-6031 N64-21443 14-25

CRYSTAL DATA ON TANTALUM CALCITE
N64-21860 15-07

GLASS CRYSTAL STRUCTURE - QUALITY CONTROL OF GLASS MATERIAL
FTD-TT-63-796/1&2&4 N64-21955 15-19

AGING EFFECTS ON QUARTZ CRYSTAL RESONATORS
QR-3 N64-22204 15-25

SINTERING, QUALITY CONTROL, AND CRYSTAL STRUCTURE OF REFRACTORY MATERIALS
FTD-TT-63-323/1&4 N64-22347 15-07

CRYSTAL STRUCTURE CALCULATIONS SYSTEM - X-RAY 63 FOR THE IBM 709, 7090, AND 7094 COMPUTER
NASA-CR-56479 N64-22419 15-25

CRYSTALLINE STRUCTURE OF NEW CLOSE GRAINED MODIFICATION OF SILICA
FTD-TT-62-1709/1&2 N64-23290 16-19

SHAPES OF DEFORMATION TWINS - DISLOCATIONS IN CRYSTAL STRUCTURE
UCRL-11451 N64-23342 16-18

X-RAY INVESTIGATION OF DISTORTION OF CRYSTALLINE STRUCTURE OF STEEL AND RED COPPER SUBJECTED TO FATIGUE TESTING N64-23835 16-33

X-RAY ANALYSIS OF DISTORTIONS OF CRYSTALLINE STRUCTURES IN SURFACE LAYERS OF METAL SUBJECTED TO POWER CUTTING N64-23842 16-33

WHISKER STRENGTH AND CRYSTAL STRUCTURE OF BORON CARBIDE FILAMENTS
NASA-CR-56230 N64-24112 16-19

X-RAY STUDIES OF SAPPHIRE CRYSTAL
AFCRL-64-423 N64-24200 16-25

CRYSTAL STRUCTURE CHANGE DURING THERMAL FATIGUE OF ALLOY N64-24532 17-18

HIGH TEMPERATURE EFFECTS ON CRYSTAL SURFACE STRUCTURE OF CESIATED MOLYBDENUM EMITTERS FOR THERMIONIC CONVERTERS
NASA-CR-77 N64-24828 17-13

CRYSTAL SYMMETRY ANALYSIS OF STRUCTURAL SPACE GROUP
TR-3 N64-24881 17-25

THERMIONIC WORK FUNCTIONS OF CHEMICAL COMPOUNDS AND RELATION TO ELECTRONIC AND CRYSTAL STRUCTURES
NASA-CR-56907 N64-25574 17-18

CONVOLUTION MOLECULE METHOD - APPLICATION TO CRYSTAL STRUCTURE ANALYSIS
USAELRDL-TR-2436 N64-26223 18-25

X-RAY CRYSTAL ANALYSIS - SUBSTITUTED HETEROCYCLIC THIAZOLINE
AD-600436 N64-26538 18-07

X-RAY DIFFRACTION ANALYSIS OF CHRYSOBERYL /ALUMINUM-BERYLLIUM OXIDE/ CRYSTAL STRUCTURE, SYNTHESIS, AND MAGNETIC PROPERTIES
TR-183 N64-26641 18-25

COMPUTER PROGRAMS FOR PROCESSING CRYSTAL STRUCTURE DATA
ARDD-3083-9 N64-27568 19-20

VERY HIGH FREQUENCY QUARTZ CRYSTAL FILTER DESIGNS USING INDUCTIVELY COUPLED LATTICE EQUIVALENT TECHNIQUE
USAELRDL-TR-2425 N64-27923 20-09

SLIP MECHANISMS IN PLASTIC DEFORMATION OF CRYSTALS NEAR YEILD POINT - FORMATION OF MICROCRACK NUCLEI N64-29062 21-24

PHASES AND TWINNING IN TERNARY ALUMINUM BOROCARBIDE CRYSTALS
TR-2 N64-29241 21-25

CRYSTAL AND MOLECULAR STRUCTURE OF LOW MOLECULAR WEIGHT COMPOUNDS
ARDD-3983-15 N64-29297 21-07

QUARTZ CRYSTAL OSCILLATOR CIRCUITS STUDY
TP64-1096 N64-29409 21-09

QUARTZ CRYSTAL RELIABILITY TESTING - SYSTEM FAILURE ANALYSIS
REPT.-4 N64-29412 21-17

SIZE AND SHAPE EFFECTS ON LATTICE VIBRATION SPECTRUM AND RESULTING FAR INFRARED ABSORPTION N64-29483 21-23

RELATIONSHIP BETWEEN THERMIONIC WORK FUNCTION OF REFRACTORY INTERMETALLIC COMPOUNDS AND THEIR ELECTRONIC AND CRYSTAL STRUCTURES
NASA-CR-58564 N64-29690 21-25

CRYSTAL LATTICE PARAMETERS AND SPACE GROUPS OF AMINOBORANES DETERMINED BY X-RAY PHOTOGRAPHY
FTR-1 N64-29724 21-07

INTERNAL STRUCTURE OF CRYSTAL AND EXTERNAL MEASUREMENTS OF REFLECTION AND TRANSMISSION
TR-2 N64-29812 21-25

DEFORMATION TEXTURE, RECRYSTALLIZATION, AND TRANSITION TEMPERATURE OF MOLYBDENUM SINGLE CRYSTALS
BM-RI-6539 N64-30821 22-18

BIBLIOGRAPHY ON GROUPS IV, V, AND VI TRANSITION METALS - PREPARATION METHODS, CRYSTAL STRUCTURE, PHASE TRANSITIONS, AND PHYSICAL, MECHANICAL, AND TRANSPORT PROPERTIES
ORNL-RMIC-3 N64-31466 23-25

SOURCES OF EXCESS VACANCIES DURING SINTERING OF METAL POWDERS N64-31468 23-18

COLORED STRATIFICATION OBSERVATIONS - EVOLUTION OF LIQUID CRYSTALS OF SODIUM OLEATE IN SOAP FILM
E-T-F-63-7 N64-31680 23-23

STRUCTURAL PROBLEMS IN CRYSTALLOGRAPHY AND SOLID STATE PHYSICS
FTD-TT-64-589/1 N64-32238 23-25

CRYSTAL STRUCTURE OF DISODIUM NITROSO HYDROXYRUTHENATE HYDRATE BY NEUTRON DIFFRACTION
ANL-6855 N64-32290 23-07

ELECTRIC AND CHEMICAL PROPERTIES OF BARRIER LAYER METAL OXIDES, X-RAY ANALYSIS OF STEEL CRYSTAL STRUCTURES, AND SPECTRAL ANALYSIS OF ALLOYS
JPRS-26774 N64-32842 24-18

CRYSTAL STRUCTURE AND FRAGMENTATION IN STEEL FROM FATIGUE TEST X-RAY ANALYSIS N64-32845 24-18

X-RAY ANALYSIS OF CRYSTAL STRUCTURE CHANGES IN COPPER ALLOYS DURING AGING N64-32848 24-18

TRANSMISSION ELECTRON MICROSCOPE STUDY OF DISLOCATED CRYSTAL ARRANGEMENTS IN FATIGUED BERYLLIUM
NASA-CR-59031 N64-32894 24-18

X-RAY DIFFRACTION OF NONPLANAR CARBANION CRYSTAL STRUCTURES N64-33201 24-07

LOW AND HIGH TEMPERATURE STRUCTURES OF SODIUM NIOBATE CRYSTALS
AD-442752 N64-33664 24-25

GEIGER COUNTER AND X-RAY FILM TECHNIQUES TO STUDY CRYSTALLINE STRUCTURES OF THIN TITANIUM FILMS AND COATINGS FORMED BY VACUUM DEPOSITION
REPT.-8251 N64-33792 24-17

RADIATION DAMAGE AND PHYSICAL DIMENSION CHANGE IN CADMIUM SULFIDE CRYSTAL
GNE-64 N64-33818 24-25

CRYSTAL STRUCTURE DEFECT
SA INTERSTITIAL ATOM
CF PLASTIC DEFORMATION
ENERGY LEVELS OF DEFECT CENTERS IN ELECTRON AND PROTON BOMBARDED SILICON - HALL COEFFICIENT & HALL MOBILITY
NASA-CR-51528 N64-10084 01-23

VACANCY CLIMB OF HELICAL AND LOOP DISLOCATIONS IN ALUMINUM-MAGNESIUM ALLOY AND VACANCY BINDING - ENERGY ESTIMATION
UCRL-10879 N64-10185 01-18

THEORY OF CRACK INITIATION IN BRITTLE FRACTURE OF CRYSTAL

JPRS-17578 N64-10479 01-25

FAULTS, SEGREGATIONS, IMPURITIES, AND DISLOCATIONS IN METALLIC CRYSTALS
JPRS-18869 N64-10801 02-18

STACKING FAULTS AND SEGREGATIONS IN COBALT-BASED ALLOYS N64-10802 02-18

DISTRIBUTION OF IMPURITIES AND DISLOCATIONS IN CADMIUM CRYSTALS N64-10803 02-18

CRYSTAL STRUCTURE DEFECTS IN IRON AND NICKEL ALLOYS AND CHROMIUM
JPRS-17529 N64-10997 02-25

EFFECT OF UNSTABLE DEFECTS IN CRYSTAL STRUCTURE ON MOBILITY OF ATOMS IN NICKEL AND IRON ALLOYS N64-10998 02-25

CHROMIUM CRYSTAL STRUCTURE DEFECT N64-10999 02-25

CRYSTAL STRUCTURE DEFECTS AND ROLLING POWDERED METALS AND ALLOYS
JPRS-17613 N64-11525 03-01

RELATIONSHIP OF CRYSTAL DEFECTS TO DIRECTION OF IRRADIATION - POWDER METALLURGY N64-11527 03-25

DEFECTS IN RUBY LASER CRYSTALS
ATN-64/9236/-10 N64-20718 13-25

FORMATION OF CRYSTAL STRUCTURE DEFECTS IN METALS DURING ARC DISCHARGE N64-23502 16-18

EFFECTS OF SILICON CRYSTAL DEFECTS ON HIGH CURRENT HIGH VOLTAGE SILICON CONTROLLED RECTIFIERS
QR-5 N64-24667 17-09

DYNAMIC DISLOCATION IN CRYSTAL PLASTICITY
TR-7 N64-25791 17-25

DIFFRACTION STUDIES OF CRYSTAL IMPERFECTIONS
AROD-2178-8 N64-27216 19-25

INTERACTION OF INTERSTITIAL ATOMS AND SUBSTRUCTURE IN REFRACTORY ELEMENTS - CRYSTAL STRUCTURE DEFECT N64-27579 19-18

DEFECT STRUCTURES IN QUENCHED AND ANNEALED GALLIUM ARSENIDE CRYSTALS
SEL-64-069 N64-29893 21-25

RESONANCE MODES AT DEFECTS IN CRYSTALLINE QUARTZ
AFCRL-64-597 N64-31821 23-25

CRYSTAL SURFACE
THERMODYNAMIC EQUILIBRIUM OF CRYSTAL SURFACES - LOW ENERGY ELECTRON DIFFRACTION TECHNIQUES AND FIELD ION EMISSION MICROSCOPY
AD-602105 N64-30770 22-25

GAS MOLECULE INTERACTIONS WITH CRYSTAL SURFACES BY MEAN INTERACTION PARAMETERS AND MOLECULAR DISTRIBUTION
NASA-CR-58957 N64-33282 24-11

CRYSTALLIZATION
MECHANISM OF CRYSTALLIZATION AND DEVELOPMENT OF NOZZLE FLOW FOR CONTINUOUS CASTING OF STEEL
JPRS-18710 N64-10785 02-18

STRESS & BIREFRINGENCE DURING CRYSTALLIZATION OF NATURAL RUBBER IN RELAXED STATE
ONR-TR-54 N64-12853 04-23

CRYSTALLIZATION & FORMATION OF INGOTS USING CONSUMABLE ELECTRODE ARC-MELTING PROCESS
JPRS-23056 N64-14257 06-17

CRYSTALLIZATION OF GLASS AND PYROCERAM N64-23094 16-19

CRYSTALLIZATION IN GLASSES OBTAINED FROM LOW MELTING CLAYS N64-23185 16-19

PRIMARY CRYSTALLIZATION OF HEAT-RESISTING ALLOYS N64-24583 17-10

RAPID SCANNING X-RAY DIFFRACTION FOR STUDY OF ISOTHERMAL CRYSTALLIZATION RATE FOR POLYPROPYLENE FILMS
ONR-TR-58 N64-25030 17-25

MARTENSITE CRYSTAL FORMATION CENTERS IN STEEL ABOVE METASTABLE EQUILIBRIUM N64-25430 17-10

CRYSTALLIZATION OF GLASS - CONTROLLED PHASE SEPARATION DUE TO METASTABLE LIQUID IMMISCIBILITY IN SIMPLE SILICATE SYSTEMS
TR-2 N64-25900 18-19

INTERPHASE SURFACE ENERGY AND ENERGY OF ACTIVATION OF CRYSTALLIZATION PROCESS
FTD-TT-64-161/162 N64-26727 18-25

CHEMICAL COMPOSITION, STRUCTURE, AND CRYSTALLIZATION OF IRON METEORITES
FTD-MT-64-283 N64-30688 22-05

PREPARATION, SEDIMENTATION, ELECTROPHORETIC PROPERTIES, AMINO ACID COMPOSITION, IMMUNOLOGY, AND CRYSTALLIZATION OF TRIOSE PHOSPHATE DEHYDROGENASE N64-32048 23-16

CRYSTALLOGRAPHY
DEMONSTRATION MODEL OF SPHERICAL PROJECTION FOR CUBIC CRYSTALS USED FOR DIFFRACTION PATTERN INTERPRETATION AND CRYSTALLOGRAPHY COURSES
NASA-RP-83 N64-11115 02-25

INFRARED AND CHEMICAL STUDY ON CRYSTALS OF RARE-EARTH ETHYLENEDIAMINE TETRAACETIC ACID CHELATES
AEET/CD/16 N64-15720 07-25

METHODS FOR MAINTAINING TEMPERATURE OF QUARTZ CRYSTAL WITH MINIMUM POWER
AD-434071 N64-18353 10-13

OXIDE THIN FILM LAYER EFFECT ON SHEAR STRENGTH OF METAL CRYSTALS
BMPR-2 N64-18464 10-25

X-RAY CRYSTALLOGRAPHY - PROGRAM FOR IBM 709, 7090, & 7094 COMPUTERS
NASA-CR-56472 N64-22426 15-25

MAGNETIC AND CRYSTALLOGRAPHIC PROPERTIES OF COMPOUNDS WITH TRANSITION METAL-METAL BONDING
ESD-TDR-64-25 N64-23923 16-23

CRYSTALLOGRAPHY OF SOME TRANSITION METAL MOLYBDATES
RM-229 N64-26433 18-07

MAGNETIC STUDIES OF IRRADIATED HEMATITE CRYSTALS
AD-412429 N64-27710 19-18

MECHANICAL PROPERTIES - CRYSTALLOGRAPHY OF SLIP & CLEAVAGE IN MOLYBDENUM-RHENIUM CRYSTALS
NASA-CR-58288 N64-29195 21-10

CRACK INITIATION IN CRYSTALLINE MATERIALS OBSERVED THROUGH PURE TUNGSTEN, TITANIUM ALLOY, AND LITHIUM FLUORIDE SINGLE CRYSTALS
SURI-MET-1160-0764-IT N64-30963 22-23

CRYSTALLOGRAPHY, CRYSTAL GROWTH & CHEMISTRY, GLASS, IONS FOR LASERS, AND ANNOTATED BIBLIOGRAPHY ON LASER MATERIALS
NASA-CR-75 N64-30992 22-25

X-RAY CRYSTALLOGRAPHIC AND POWDER DIFFRACTION ANALYSIS OF GROUP IV A AND V A PHENYL COMPOUNDS
ASD-TDR-63-673 N64-31707 23-07

STRUCTURAL PROBLEMS IN CRYSTALLOGRAPHY AND SOLID STATE PHYSICS
FTD-TT-64-589/1 N64-32238 23-25

FORTRAN PROGRAM FOR IBM 7074 COMPUTER PROCESSING OF CRYTALLOGRAPHIC DATA
IS-876 N64-33249 24-10

CULTURE
SA EDUCATION

SA LANGUAGE
INTERRELATION OF PROTOCOCCAL ALGAE CULTURES AND SALMONELLA THYPIMURIUM
JPRS-18092 N64-11211 02-16

PHYSIOLOGY OF PREDOMINATING TYPE CULTURES ISOLATED FROM HUMAN WASTE /FECES/
NASA-CR-58287 N64-29194 21-16

EFFECT OF CULTURE MEDIUM PH ON DEVELOPMENT OF CHLORELLA AND METABOLISM OF CARBON 14 ABSORBED IN CARBON DIOXIDE BY CHLORELLA N64-33495 24-16

CULTURE TECHNIQUE
S MICROBIOLOGY

CUMULUS CLOUD
HYDROMETEOROLOGICAL DISCUSSION OF CUMULUS CLOUDS, FORECASTING AND MEASUREMENTS OF LONG-WAVE BALANCE
JPRS-19879 N64-10835 02-21

CUMULONIMBUS CLOUD STUDY FOR WIND, TEMPERATURE, AND TURBULENT PROPERTIES N64-10993 02-21

METEOROLOGICAL CONDITIONS OF FLIGHT IN UPPER HALF OF TROPOSPHERE NEAR CUMULONIMBUS CLOUDS
N64-12788 04-21

SEVERE STORM CLOUD DYNAMICS N64-14198 06-21

RADAR BACKSCATTERING OBSERVATION OF DISTORTION OF CUMULONIMBUS PRECIPITATION
AFCRL-64-249 N64-18355 10-08

SIMPLIFIED MODEL FOR FORMATION, MOVEMENT, AND DISSIPATION OF FAIR WEATHER CUMULUS CLOUDS
RM-113 N64-23261 16-21

CUMULUS CONVECTION AND OROGRAPHIC CONVECTION CELLS - ATMOSPHERIC CIRCULATION
TR-3 N64-24947 17-21

FORMATION OF CUMULONIMBUS INCUS ON CLOUD DECK
N64-28047 20-21

POWER SPECTRUM MEASUREMENTS OF ATMOSPHERIC TURBULENCE IN SEVERE STORMS AND CUMULUS CLOUDS
NASA-TN-D-2469 N64-30998 22-21

COPPER TRANSMITTING ELEMENTS OF ELECTRONIC THERMOMETERS FOR MEASURING CONVECTIVE MOTION OF CUMULUS CLOUDS
E-T-R-64-14 N64-31681 23-21

CUMULUS CONVECTION AND OROGRAPHIC CONVECTION CELLS - SYNOPTIC STUDY OF MONSOON RAINFALL IN SOUTHEAST ASIA
REPT.-4 N64-33707 24-21

CUPROUS SELENIDE
LUMINESCENCE INTENSITY-CURRENT-TEMPERATURE RELATIONSHIPS FOR CUPROUS SELENIDE-ZINC SELENIDE DIODES N64-13749 05-25

CURING
CF AGING
VARIABLY CURING RESINS FOR MOUNTING METALLOGRAPHIC SAMPLES
AML-6712 N64-11789 03-19

CHEMICAL ADDITIVES AND GAMMA RADIATION FOR CURING VINYLIDENE FLUORIDE-HEXAFLUOROPROPYLENE ELASTOMER
REPT.-63-3347 N64-14644 06-07

PRODUCTION OF LARGE DIAMETER FINE GRAIN GRAPHITE BY PRESSURE CURING
WADD-TR-61-72, VOL. 12 N64-18882 11-19

FLUID BALL SOLUBILITY AND CURING PROCESS FOR NITROCELLULOSE-BASED PROPELLANTS
RK-TR-64-1 N64-21794 15-26

CURRENT
S BEAM CURRENT
S CONVECTION CURRENT
S DIRECT CURRENT /DC/
S EARTH CURRENT
S ELECTRIC CURRENT
S ION CURRENT
S IONOSPHERIC CURRENT
S RING CURRENT
S TELLURIC CURRENT

CURRENT DISTRIBUTION
EFFECT OF CURRENT DISTRIBUTION OF LIGHTNING DISCHARGE ON ELECTROMAGNETIC RADIATION AT LONG DISTANCE N64-19699 12-12

RELATIONSHIP BETWEEN ERROR IN CURRENT DISTRIBUTION AND DISPLACEMENT OF MAIN BEAM OF RADIATION PATTERN FOR ANTENNA SYSTEMS
FTD-TT-63-1079/1&2 N64-19753 12-09

RADIATION PATTERNS AND CURRENT DISTRIBUTIONS COMPARED WITH COMPUTED RESULTS FOR SINGLE AND ARRAY ANTENNAS
TECH. REPT.-383 N64-19948 12-09

CURRENT DISTRIBUTION IN MICROFISSURE SINGLE-PORE CELL & EFFECT OF PORE STRUCTURE ON TRANSIENT BEHAVIOR OF METAL ELECTRODES
NASA-CR-53688 N64-19988 12-23

DISTRIBUTION OF CURRENT AND ADMITTANCE OF CYLINDRICAL ANTENNA CONSTRUCTED OF IMPERFECT CONDUCTORS
TR-440 N64-29430 21-08

FIELD AND CURRENT DISTRIBUTIONS IN CADMIUM SULFIDE SEMICONDUCTORS AND PHOTOCONDUCTORS
PR-1 N64-30771 22-25

DISTRIBUTION OF CURRENT ON CONVEX SURFACE TO INSURE SHARPLY DIRECTIONAL RADIATION
N64-32903 24-08

CURVE
S CURVED BEAM
S CURVED PANEL
S CURVED SURFACE

CURVED BEAM
OPTIMUM CURVATURE BEAM FOR REFLECTED WAVE OF PERISCOPE IN MICROWAVE RELAY ANTENNAS
RM-3930-PR N64-12172 03-08

SNAP BUCKLING OF CIRCULAR BEAMS WITH SMALL CURVATURE UNDER EXTERNAL PRESSURE
REPT.-382 N64-24918 17-33

CURVED SURFACE
FREE MOLECULAR FLOW CHARACTERISTICS OF CONCAVE SURFACES
COA-N-155 N64-11388 02-23

ELECTROMAGNETIC PROPAGATION ON CYLINDRICAL STRUCTURES HAVING AZIMUTHAL PERIODICITY - CURVED CORRUGATED SURFACE & PERIODIC SLOTTED CONDUCTORS
TR-84 N64-17120 09-09

BOUNDARY LAYER FLOW, VORTICITY, EXTERNAL FLOW, AND BODY SURFACE CURVATURE
FTD-MT-63-167 N64-18688 11-11

GAUSS CURVATURE OF NONPARAMETRIC MINIMAL SURFACES
AROD-1323-31 N64-19549 12-20

SOLUTION OF BOUNDARY LAYER EQUATIONS OF CURVED SURFACES
ARL-64-20 N64-21031 14-11

EFFECTS OF SURFACE CURVATURE ON LAMINAR BOUNDARY LAYER FLOW
NAL-TR-48 N64-21206 14-11

FLOW OF INCOMPRESSIBLE TURBULENT WALL JETS OVER CURVED BOUNDARIES
REPT.-64-7 N64-22486 15-02

AERODYNAMIC CHARACTERISTICS OF THIN CURVED BODIES AND CURVED SURFACE WINGS N64-23067 16-03

CUSHION
VIBRATION TESTING OF RESILIENT PACKAGE CUSHIONING MATERIALS
TR-3160 N64-33725 24-33

CUT-OUT
EFFECT OF RIVETED STRINGER ON STRESS CONCENTRATION IN ELASTIC SHEET WITH CRACK OR CUT-OUT
TR-20 N64-28555 20-33

CUTANEOUS PERCEPTION
S SKIN /BIOL/
S TACTILE DISCRIMINATION

CYANATE
COORDINATION OF AZIDE, SELENOCYANATE, & CYANATE IONS
AD-428105 N64-14169 05-07

PREPARATION OF DICYANOACETYLENE MONOMER BY DEHYDRATION OF ACETYLENECARBOXAMIDE - POLYMER CHEMISTRY
NASA-CR-56035 N64-20601 13-07

COLUMN ELUTION FRACTIONATION & THERMAL DEGRADATION OF POLYOXYPROPYLENE GLYCOL-TOLUENE DIISOCYANATE POLYMERS
NASA-CR-53993 N64-20609 13-07

SYNTHESIS AND EVALUATION OF DIISOCYNANATES AND AMINES FOR RAPID SOLIDIFICATION OF HYDROCARBON FUELS N64-25086 17-07

HALOGENOID COMPLEXES - CHEMISTRY OF AZIDE & CYANATE COMPLEXES, AND PSEUDO-HALIC ACIDS
PR-5 N64-33672 24-07

CYANIDE
CYANIDE AND NITRILE COMPOUNDS FOR THERAPY OF RADIATION EXPOSURE IN MICE N64-13505 05-16

HIGH RESOLUTION EMISSION SPECTRUM OF CYANIDE ION
AFCRL-63-781 N64-14367 06-23

VULNERABILITY OF CENTRAL NERVOUS SYSTEM TO CARBON MONOXIDE, CYANIDE, AND OTHER POISONING N64-14595 06-16

REACTION KINETICS OF IRON CYANIDE/FERRIC WITH BOROHYDRIDE IN AQUEOUS SOLUTION
UCRL-11252 N64-17979 10-07

CYANIDES AND NITRILES FOR RADIATION THERAPY - MEDICAL RADIOLOGY
JPRS-26887 N64-32306 23-16

CYANOGEN
EQUILIBRIUM COMPOSITION AND THERMODYNAMIC PROPERTIES OF CYANOGEN-OXYGEN COMBUSTION PRODUCTS
NASA-TN-D-2422 N64-27924 20-26

REACTIONS OF FLUOROCARBONS AND NITROGEN-FLUORINE COMPOUNDS - ULTRAVIOLET INDUCED FLUORINATION OF CYANOGEN
QTR-19 N64-28701 20-07

CYBERNETICS
SA HUMAN ENGINEERING
CF AUTOMATIC CONTROL
CF BIONICS
CYBERNETIC METHOD FOR PROGNOSIS OF BURN INJURY BY ALGORITHM OPERATION N64-10007 01-16

SYNTHESIS OF NETWORKS FROM SIMPLE ELEMENTS CYBERNETICS
NASA-CR-52251 N64-10090 01-09

PHILOSOPHICAL ANALYSIS OF BASIC CYBERNETIC MODELS
JPRS-21807 N64-10270 01-16

NEURON TRANSMISSION IN HUMAN BRAIN AND CYBERNETIC DESIGN OF PERCEPTRON - DATA PROCESSING ELECTRONIC CEREBRAL MACHINE - BOOK REVIEW
JPRS-21805 N64-10380 01-01

REVIEW OF CYBERNETICS - PROBLEMS, METHODS, AND APPLICATION
JPRS-18226 N64-10454 01-20

PRINCIPLES OF ACCOMPLISHING LEARNING AND LOGICAL PROCESSES IN ELECTRONIC APPARATUS - CYBERNETICS
JPRS-19134 N64-10458 01-20

COMPARATIVE ELECTRONIC APPARATUS OPERATION STUDY OF CYBERNETIC MECHANISM
JPRS-18873 N64-10506 01-14

THEORETICAL ANALYSIS OF STRUCTURE OF TACTILE SENSATION USING CYBERNETICAL CONCEPTS
JPRS-19565 N64-10658 01-16

BIONICS - ENGINEERING CYBERNETICS USING KNOWLEDGE OF BIOLOGICAL PROCESSES FOR SOLVING ENGINEERING TASKS
JPRS-17500 N64-10690 02-14

CYBERNETIC FEATURES OF HUMAN OPERATORS IN AUTOMATIC CONTROL SYSTEMS
JPRS-17544 N64-10695 02-14

NEURONS & NERVE NETWORKS, INFORMATION CODING & STORAGE NETWORKS, AND ANALYZERS & PERCEPTORS - CYBERNETICS
JPRS-18372 N64-10759 02-14

APPLICATION OF CYBERNETICS TO DATA PROCESSING IN TEACHING RESEARCH
JPRS-18549 N64-10772 02-01

CONTROL AND REGULATION, ALGORITHMIC DESCRIPTION, AUTOMATED REPAIR, AND AUTOMATION - CYBERNETICS
JPRS-18569 N64-10778 02-01

CYBERNETICS, SOCIAL SCIENCES, AND ECONOMICS
JPRS-18570 N64-10779 02-01

CYBERNETIC ASPECT OF STATISTICS
JPRS-18579 N64-10784 02-20

PROBLEMS IN HUMAN ENGINEERING AND CYBERNETICS N64-10787 02-14

SIGNIFICANCE OF CYBERNETICS IN SCIENCE, ECONOMY, & TECHNOLOGY
JPRS-18033 N64-11024 02-09

CYBERNETICS IN EDUCATION AND AUTOMATION
JPRS-18832 N64-11058 02-14

CYBERNETICS IN RELATION TO IMPROVED EDUCATION AND TRAINING N64-11059 02-14

CYBERNETICS AND AUTOMATION IN TERMS OF PRODUCTION PROCESSES N64-11060 02-14

PROBLEMS OF MEDICAL SCIENCE RELATED TO PHYSICAL SCIENCE AND TECHNOLOGY, ESPECIALLY CYBERNETICS
JPRS-19043 N64-11124 02-14

CONSTRUCTION & OPTIMAL CONTROL OF AUTOMATIC MACHINES - CYBERNETICS
JPRS-22188 N64-11416 02-14

CONTRIBUTIONS OF CYBERNETICS TO MEDICAL SCIENCE
JPRS-22189 N64-11417 02-14

COMPUTER PROGRAMMING - SELF-ORGANIZATION, MEDICAL DIAGNOSTICS, CODE CONVERSION, CYBERNETICS, PERCEPTRONS, AND DEVELOPMENTS IN AUTOMATION
JPRS-17688 N64-11529 03-01

GENERAL PURPOSE DIGITAL COMPUTERS IN CYBERNETICS - SIMULATION OF BIOLOGICAL SYSTEMS, SELF-ORGANIZING AND TEACHING, AND VISUAL IMAGE PERCEPTION N64-11533 03-14

POSSIBILITY OF MODELING HUMAN NERVOUS ACTIVITY USING SELF-REGULATORY PROCESSES IN AUTOMATONS - CYBERNETICS
JPRS-22185 N64-11599 03-20

CYBERNETICS AND DEVELOPMENT OF CONTEMPORARY SCIENTIFIC KNOWLEDGE
JPRS-22296 N64-11782 03-14

AUTOMATION IN INDUSTRY AND INSTRUMENTATION FOR REMOTE CONTROL NAVIGATION OF SHIPS - CYBERNETICS
JPRS-22345 N64-11917 03-14

CYBERNETICS IN MEDICINE & PHYSIOLOGY
JPRS-22377 N64-11918 03-14

GROUP CODE THEORY AND APPLICATION OF HADAMARD MATRIX TO CODING PROBLEM - CYBERNETICS
FTD-TT-63-544/1&2&4 N64-12384 03-16

INFORMATION THEORY, CONTROL PROCESSES, AND COMPUTING SYSTEMS - CYBERNETICS
JPRS-22224 N64-12451 04-01

HIGH EFFICIENCY ELECTRONIC COMPUTING SYSTEMS - CYBERNETICS N64-12452 04-20

SYNTHESIS OF CONTROL EQUIPMENT FOR DIGITAL COMPUTERS - CYBERNETICS N64-12453 04-20

TECHNICAL-ECONOMICAL APPROACH TO SELECTION OF BASIC PARAMETERS FOR NEW TECHNICAL MEANS OF AUTOMATIC CONTROL - CYBERNETICS N64-12454 04-20

MUTI-OPERATION SYSTEMS AND TERMINAL AUTOMATONS CYBERNETICS N64-12455 04-20

AUTOMATION OF CONTROL PROCESSES FOR LARGE COMPLICATED SYSTEMS - CYBERNETICS N64-12456 04-06

INFORMATION REMOVED FROM SOURCE DUE TO FLUCTUATION NOISES PRESENT IN RECEIVER WITH UNIFORM FREQUENCY SPECTRUM - CYBERNETICS N64-12457 04-08

THEORY OF PULSE COINCIDENCE OF DEPENDENT CURRENTS - CYBERNETICS N64-12458 04-09

ABSTRACT MODEL OF STATISTICAL CONTROL FOR MANUFACTURING PROCESSES OBTAINING MAXIMUM NET PROFIT - CYBERNETICS N64-12459 04-01

CONTROL OF RANDOM WANDERING OF AUTOMATON WHEN INTERNAL NOISES ARE PRESENT - CYBERNETICS N64-12460 04-20

INVESTIGATION OF STATISTICAL RELAY EFFECT AUTOMATONS WHEN STOCHASTIC DISTURBANCES ARE PRESENT - CYBERNETICS N64-12461 04-20

NOISE INFLUENCE ON STEP-TYPE EXTREMAL SYSTEMS WITH SEQUENTIAL ANALYZERS - CYBERNETICS N64-12462 04-09

APPROXIMATE DESIGN OF RAPID ACTION SYSTEMS WITH AUTOMATIC OPTIMIZATION WHEN ALMOST PERIODIC TENTATIVE & SEARCH SIGNALS ARE USED - CYBERNETICS N64-12463 04-06

MINIMUM QUADRATIC CRITERIA FOR CONTROL SYSTEM QUALITY - CYBERNETICS N64-12464 04-20

FAST DERIVATION OF IMAGE POINT BEYOND LIMITS OF GIVEN PHASE PLANE REGION - CYBERNETICS N64-12465 04-20

RIGIDITY OF MOTION IN SLIDING HYPERPLANE FOR AUTOMATIC CONTROL SYSTEMS WITH VARIABLE STRUCTURE - CYBERNETICS N64-12466 04-20

AMPLITUDE-FREQUENCY TRANSFER FUNCTION OF RELAY CONTROL MECHANISM WITH INDEPENDENTLY DRIVEN MOTOR - CYBERNETICS N64-12468 04-06

OSCILLATION STABILITY ANALYSIS FOR LINEAR SYSTEMS WITH VARIABLE PARAMETERS - CYBERNETICS N64-12469 04-20

SYNTHESIS OF MULTIVARIATE AUTOMATIC SYSTEMS FROM EQUIVALENT INITIAL CONDITIONS AND PRINCIPLE OF INVARIANCE - CYBERNETICS N64-12470 04-20

LUMINOUS FLUX MODULATION BY RADIAL-SLOT SHUTTERS OF DISPLAY SYSTEMS - CYBERNETICS N64-12471 04-06

VARIATION PROBLEM FOR MAXIMUM AIRCRAFT RANGE - CYBERNETICS N64-12472 04-22

RANDOM NUMBER GENERATION BY FILLING RANDOM INTERVAL OF FIXED FREQUENCY PULSES WITH SUBSEQUENT ENUMERATION - CYBERNETICS N64-12473 04-20

BIOLOGICAL ASPECTS OF CYBERNETICS
JPRS-19637 N64-12507 04-01

CYBERNETICS AND PROGRESS IN SCIENCE & TECHNOLOGY N64-12508 04-16

APPLICATION OF CYBERNETICS TO BIOLOGY AND MEDICINE N64-12509 04-16

PHYSIOLOGY & PROBLEMS OF CYBERNETICS N64-12512 04-16

MATHEMATICAL MODEL FOR PHYSIOLOGICAL PHENOMENA - CYBERNETICS N64-12513 04-14

AUTOMATIC CONTROL APPARATUS IN CYBERNETICS N64-12514 04-16

MATHEMATICAL MODEL FOR NERVOUS DEFENSES AGAINST STIMULATION AND INHIBITION N64-12515 04-16

MATHEMATICAL ANALYSIS OF BIOLOGICAL DATA - CYBERNETICS N64-12516 04-16

ELECTRONIC COMPUTER ANALYSIS OF BIOELECTRIC CURRENT IN BRAIN - CYBERNETICS N64-12517 04-16

INFORMATION PROCESSING OF PHYSIOLOGICAL DATA FOR FUNCTIONS OF ENTIRE ORGANISM - CYBERNETICS N64-12518 04-16

ANALYSIS OF INFORMATION PROCESSING MECHANISM IN BRAIN - CYBERNETICS N64-12519 04-16

BIOLOGICAL ANALYZER SYSTEMS STUDY - CYBERNETICS N64-12520 04-16

CODING SYSTEM FOR COLOR INFORMATION TRANSMISSION IN RETINA - CYBERNETICS N64-12521 04-16

VISUAL SYSTEM STRUCTURE AND PHOTORECEPTORS FOR RETINAL IMAGE - CYBERNETICS N64-12522 04-16

VISUAL INFORMATION PROCESSING IN RETINA BY OPTIMAL ENCODING - CYBERNETICS N64-12523 04-16

AUTOMATIC TEACHING MACHINE FOR VISUAL PERCEPTION - CYBERNETICS N64-12524 04-16

COMPUTER MODEL FOR ANIMAL BEHAVIOR STUDY AND INSTRUCTION FOR RECOGNITION - CYBERNETICS N64-12525 04-16

STOCHASTIC MACHINE INSTRUCTION AND APPLICATION TO BEHAVIOR OF LIVING THINGS - CYBERNETICS N64-12526 04-16

COMPARISON OF HUMAN & MACHINE SOLUTION TO DECISION PROBLEM WHERE PROBABILITY OF REINFORCEMENT VARIES - CYBERNETICS N64-12527 04-16

BIOCHEMICAL SELF-REGULATION MECHANISMS OF CELL - CYBERNETICS N64-12528 04-16

PLANT AND ANIMAL AUTOMATIC CONTROL MECHANISMS - INTERNAL PROCESS SELF-REGULATION - CYBERNETICS N64-12529 04-16

CYBERNETICS AND AUTOMATION - HIGHER NERVOUS ACTIVITY OF MIND AS MODEL FOR COMPLEX MACHINES
FTD-TT-63-765/1 N64-12621 04-16

CYBERNETICS APPLIED TO CHEMICAL INDUSTRY
JPRS-22645 N64-13026 04-07

ROLE OF CYBERNETICS IN MEDICAL SCIENCE & PRACTICE
JPRS-22647 N64-13085 04-16

RELATION OF CYBERNETICS TO BIOLOGY, MEDICINE, ECONOMICS, AND ENGINEERING
JPRS-22931 N64-14142 05-16

RELATIONSHIPS BETWEEN BIOLOGY & CYBERNETICS
JPRS-22963 N64-14143 05-16

ROLE OF CYBERNETICS AND PLASTICS IN MEDICINE
FTD-TT-63-732/1&4 N64-14333 06-16

ROLE OF CYBERNETICS IN MEDICINE - COMPUTERS FOR

DIAGNOSIS OF DISEASES AND ANALYSIS OF PATIENT CONDITION
N64-14334 06-16

INTERRELATIONSHIP BETWEEN PHYSIOLOGY & CYBERNETICS
JPRS-23060 N64-14530 06-16

CYBERNETICS
JPRS-23132 N64-14536 06-16

CYBERNETICS & AUTOMATIC CONTROL SYSTEMS
JPRS-18127 N64-14613 06-16

CYBERNETIC RELATION TO SCIENCE AND TECHNOLOGY, NEUROLOGY, PATHOLOGY, MATHEMATICS, AND PHILOSOPHY
JPRS-23234 N64-14944 06-16

CYBERNETICS IN PEDAGOGY AND COMMUNICATIONS
JPRS-23187 N64-15166 07-01

MATHEMATICAL AND CYBERNETIC METHODS APPLIED TO PEDAGOGY
N64-15167 07-16

SPEECH SIGNAL TRANSFORMATION FOR USE IN COMMUNICATIONS AND CYBERNETICS TECHNOLOGY
N64-15169 07-16

MENTAL REFLECTION PROCESSES IN LIGHT OF CYBERNETICS - PSYCHOLOGY
JPRS-23370 N64-15417 07-16

MECHANIZATION OF MENTAL PROCESSES AND DESIGN OF TALKING AUTOMATON - CYBERNETICS
RADC-TDR-63-528 N64-15726 07-16

CONTROL SYSTEMS, CODING, PROGRAMMING, AND COMPUTERS IN CYBERNETICS
JPRS-23700 N64-16860 08-16

CYBERNETICS - AUTOMATION, LOGICAL MACHINES, CONTROL, IMPROBABILITY, FEEDBACK, ALGEBRA, AND COMPUTERS
JPRS-23554 N64-17242 09-16

CYBERNETICS IN BIOLOGY, MEDICINE, AND SPACE FLIGHT
JPRS-23749 N64-17244 09-16

CIRCUIT FOR CYBERNETIC CONTROL OF REVERSIBLE HYPOTHERMIA PROCESSES
JPRS-24504 N64-20012 13-16

MEDICAL RADIOLOGY - RADIATION SICKNESS, ANIMAL STUDY, AND CYBERNETICS
JPRS-24452 N64-20943 14-16

CYBERNETICS IN RADIATION THERAPY
N64-20947 14-16

POSSIBLE MECHANISM OF INFORMATION PROCESSES IN ORGANISMS - CYBERNETICS
JPRS-24816 N64-21125 14-16

PROGRAMMED INSTRUCTION AND CYBERNETIC TEACHING MACHINES
JPRS-24933 N64-21694 15-08

APPLICATIONS OF CYBERNETICS TO PHYSIOLOGICAL PHENOMENA
FTD-TT-63-521/1&4 N64-22182 15-16

TECHNICAL CYBERNETICS
JPRS-24536 N64-24685 17-99

BIONICS - SELF-ADAPTIVE SYSTEMS, COMMUNICATION, AND CONTROL IN ANIMALS & ELECTRONIC MACHINES
JPRS-25494 N64-26257 18-16

CYBERNETICS - MECHANICS OF AUTOMATIC CONTROL SYSTEMS
JPRS-25169 N64-26376 18-09

CYBERNETIC APPROACH TO PROBLEM OF SENSUAL IMAGE AND PERCEPTION
JPRS-25761 N64-26765 18-14

DESIGNS AND FUNCTIONS OF TEACHING MACHINES - CYBERNETICS
JPRS-25893 N64-27042 19-08

CYBERNETICS AND DEVELOPMENT OF COMPUTERS
JPRS-25714 N64-27057 19-14

CYBERNETICS - ELECTRONIC MACHINES APPLIED TO INDUSTRIAL PROBLEMS
JPRS-25927 N64-27266 19-17

CYBERNETICS, PLANNING, AND SOCIAL PROGRESS
JPRS-26063 N64-27637 19-01

INFORMATION THEORY - LENIN CONCEPT OF CAUSALITY
JPRS-26012 N64-27669 19-14

CYBERNETICS - AUTOMATONS, COMPUTERS, AUTOMATIC CONTROL
JPRS-26201 N64-28050 20-14

USE OF CYBERNETIC METHODS IN CHEMISTRY AND CHEMICAL INDUSTRY
N64-28349 20-07

DYNAMIC AUTOMATIC CONTROLLING, STABILIZING, AND ORGANIZING OF ADAPTIVE SYSTEMS IN INDUSTRIAL CYBERNETICS
FTD-TT-64-231/1&2 N64-29593 21-09

CYBERNETICS - CONTROL SYSTEMS, INFORMATION THEORY, AND GAME THEORY
JPRS-26341 N64-29733 21-21

CYBERNETICS - STABLE SUPPLEMENT TO DEFINITION OF PARTIAL AUTOMATONS
N64-29745 21-21

CYBERNETICS - AUTOMATIC CONTROL SYSTEMS, ERRORS, SERVOMECHANISMS, LINEAR & NONLINEAR SYSTEMS, AND RELIABILITY
JPRS-26336 N64-30207 22-11

PHILOSOPHY OF CYBERNETICS N64-30208 22-21

CYBERNETICS - SCIENCE OF OPTIMUM CONTROL
JPRS-26581 N64-30655 22-01

COLLECTION OF ARTICLES ON MATHEMATICAL LOGIC, CYBERNETICS, AND COMPUTER TECHNOLOGY
JPRS-26740 N64-31037 22-20

PHYSIOLOGICAL STUDIES - BIOLOGICAL CYBERNETICS, FLOATING RECORDING DEVICE FOR DIGESTIVE SYSTEM, AND NYSTAGMUS RECORDING INSTRUMENTATION
FTD-TT-64-386/1&2 N64-31074 22-14

CYBERNETICS AND ECONOMIC MANAGEMENT
JPRS-26773 N64-32816 24-01

* CYCLIC ACCELERATOR
RADIOFREQUENCY METHOD OF INFLECTING PARTICLES INTO ORBITS FOR SUBSEQUENT ACCELERATION IN CYCLIC PARTICLE ACCELERATOR
MURA-674 N64-13330 04-23

CYCLIC HYDROCARBON
THERMAL DECOMPOSITION OF CYCLOHEXADIENEONE PEROXIDE PRODUCING RADICALS N64-12495 04-07

FLUORINATED CARBOCYCLIC AND HETEROCYCLIC COMPOUNDS
AD-432978 N64-17479 09-07

BICYCLIC SMALL RING COMPOUNDS AND CYCLOPROPENE & ITS DERIVATIVES
AROD-2966-1 N64-19271 11-07

PROTON MAGNETIC RESONANCE OF CYCLOPROPANE DERIVATIVES N64-19580 12-23

CHEMICAL REACTIONS OF ORGANOBORANES AND CYCLIC SILICON HYDROCARBONS
TR-21 N64-23244 16-07

GAMMA RADIATION EFFECTS ON CYCLIC ALKANES AND ALKENES
USNRDL-TR-691 N64-31293 22-07

SYNTHESIS OF CYCLOALKANONE ALKYLHYDRAZONES AND FACTORS INFLUENCING ISOMERIZATION TO CYCLOALKANE AZO ALKANES
GNE/PHYS/64-15 N64-33887 24-07

CYCLIC LOAD
CREEP-FATIGUE INTERACTIONS UNDER CYCLIC LOADING CONDITIONS

ASD-TDR-63-644 N64-14468 06-33

CYCLIC STRAIN ACCUMULATION IN COPPER TUBE UNDER STEADY TENSION AND ALTERNATING TORSION - CYCLIC CREEP
RTD-TDR-63-4120 N64-14653 06-18

ELECTRON MICROSCOPIC FRACTOGRAPHIC STUDIES OF ALUMINUM ALLOYS
DMIC-MEMO-186 N64-16696 08-33

FATIGUE STRENGTH OF PHENOLIC LAMINATES UNDER CYCLIC LOADING
FPL-027 N64-16986 09-19

MAGNETOSTRICTIVE RESPONSE OF HIGH STRENGTH STEELS TO CYCLIC FATIGUE TESTING
RA-254/63 N64-19318 12-18

CYCLIC LOADING OF ALUMINUM ALLOY
N64-22092 15-33

METAL FATIGUE AND CYCLIC STRESS
JPRS-25124 N64-23447 16-33

SATURN I PROGRAM AND DESCRIPTION OF MISSIONS - SCHEDULE FOR SATURN IB LAUNCH VEHICLE PROGRAM AND DESCRIPTION OF ROCKET N64-23448 16-33

CHANGE OF DISLOCATION STRUCTURE OF METALS DURING CYCLIC STRESS N64-23449 16-33

FLOW AND FATIGUE CHARACTERISTICS OF DUCTILE METALS UNDER CYCLIC PLASTIC STRAINING
NASA-CR-56548 N64-24104 16-18

EQUIPMENT FOR CYCLIC HEATING OF STRESS RUPTURE SPECIMENS
NLR-TM-M.2102 N64-28117 20-17

COMPUTER PROGRAMMED LOAD CYCLING FOR PLASTIC DEFORMATION MATERIAL TESTING AND VERIFICATION OF ELASTICITY THEORY
ONERA-TP-161 N64-33258 24-25

CYCLING
LIFESPAN TESTING OF NICKEL-CADMIUM BATTERIES BY CHARGE-DISCHARGE CYCLING
NASA-CR-53029 N64-15965 07-06

DETECTION AND MEASUREMENT OF CYCLE SKIPPING AND PHASE OFFSETS IN FREQUENCY MULTIPLYING PHASE-LOCK FILTERS N64-16168 08-09

BEHAVIOR OF NONCUBIC POLYCRYSTALLINE METALS IN THERMAL CYCLING N64-16607 08-18

EFFECT OF SOLAR ACTIVITY CYCLING ON LONG RANGE WEATHER FORECASTING
JPRS-24167 N64-18526 11-21

THERMAL CYCLE EFFECT ON MECHANICAL PROPERTIES OF NIOBIUM ALLOY
A739 N64-22584 15-18

DIFFUSION AND OXIDATION PROCESSES IN ALLOY UNDER CONDITIONS OF THERMAL CYCLING N64-24534 17-18

DYNAMIC EQUATIONS OF AIR INTAKE & CONTROL SYSTEMS FOR TURBOJET ENGINES OPERATING IN TURBULENT ATMOSPHERES N64-25434 17-04

BATTERY LIFE CYCLE TESTS
NASA-CR-58060 N64-26363 18-06

BATTERY LIFE CYCLE TEST RESULTS
NASA-CR-56416 N64-27913 20-06

EQUIPMENT FOR CYCLIC HEATING OF STRESS RUPTURE SPECIMENS
NLR-TM-M.2102 N64-28117 20-17

WELD HEAT-AFFECTED ZONE OF CAST STEEL - EFFECT OF THERMAL CYCLING ON IMPACT STRENGTH
WVT-ID-6316 N64-33898 24-18

CYCLOHEXANE
COMPARATIVE INVESTIGATION OF OPTIMUM CONDITION FOR ISOLATION OF CYCLOHEXANE AND METHYLCYCLOPENTANE PETROLEUM FRACTIONS
FTD-TT-63-563/1&2&4 N64-11184 02-07

CYCLOHEXANE INTERACTION WITH METALLIC CATALYST SURFACE, CHEMICAL BOND IN ELECTRONIC PARAMAGNETIC RESONANCE SPECTRA OF MANGANESE, AND ELECTROSTATIC ADSORPTION OF IONS
JPRS-25115 N64-22738 16-07

CYCLONE
SA ANTICYCLONE
SA HURRICANE
METEOROLOGICAL AND RADIOACTIVE FALLOUT ANALYSIS OF PACIFIC COAST CYCLONIC STORM
HNS-17 N64-10216 01-21

SYNOPTIC SITUATIONS ASSOCIATED WITH CYCLONES IN UNITED STATES
AFCRL-63-716 N64-11181 02-21

RELATION BETWEEN HEAT EXCHANGE AND MOISTURE AT OCEAN-ATMOSPHERE INTERFACE - DEVELOPMENT OF CYCLONES IN NORTH ATLANTIC OCEAN
N64-11602 03-21

DYNAMIC MODELS WITH CORIOLIS EFFECT TO EXPLAIN FORMATION OF SPIRAL CLOUD BANDS IN HURRICANES AND CYCLONES
GCA-TR-63-4-G N64-11945 03-21

TIROS I PHOTOGRAPHS OF CLOUD SYSTEM OF CYCLONE OVER ATLANTIC OCEAN RELATED TO STANDARD METEOROLOGICAL INFORMATION N64-17909 10-21

TIROS I PHOTOGRAPHS OF CLOUD STRUCTURE OF CUT-OFF CYCLONE OVER EASTERN PACIFIC RELATED TO STANDARD METEOROLOGICAL INFORMATION N64-17910 10-21

MECHANISM OF HOOK ECHO CLOUD FORMATION - PRELIMINARY MESOSYNOPTIC ANALYSIS OF TORNADO CYCLONE OF MAY 26, 1963 N64-18392 10-21

DIABATIC WEATHER PREDICTION FOR STUDYING CYCLONE DEVELOPMENT
GEOPHYS. SCI. LAB. REPT.-63-06 N64-22953 16-12

TRANSFORMATION OF POTENTIAL TO KINETIC ENERGY WITHIN STORM OR CYCLONE N64-24462 17-21

CLOUD PATTERNS, TROPICAL CYCLONE, AND DIURNAL VARIATION STUDIES FROM TIROS I SATELLITE PICTURES
AFCRL-64-327 N64-25375 17-21

VERIFICATION OF NUMERICAL OPERATIONAL TROPICAL CYCLONE FORECAST TRACKS FOR 1963
TM-29 N64-26462 18-21

CONTRIBUTION OF VERTICAL MOVEMENTS TO DEVELOPMENT OF CYCLONES AND ANTICYCLONES N64-27941 20-21

ARTIFICIAL SATELLITE PHOTOGRAPHY OF CYCLONE OVER CASPIAN SEA N64-32784 24-21

CYCLONES OF SOUTHWESTERN INDIAN OCEAN
N64-33517 24-21

CYCLOTETRAMETHYLENE TETRANITRAMINE /HMX/
GAS ADSORPTION ON ORGANIC SURFACE - NITROGEN AND CARBON MONOXIDE ON CYCLOTETRAMETHYLENE TETRANITRAMINE /HMX/
PA-TR-3092 N64-18381 10-19

THERMOCHEMICAL INVESTIGATION OF COMPLEX FORMED BY CYCLOTETRAMETHYLENE TETRANITRAMINE /HMX/ AND DIMETHYLFORMAMIDE /DMF/
AD-435690 N64-19132 11-07

CYCLOTRIMETHYLENE TRINITRAMINE
CYCLOTRIMETHYLENE TRINITRAMINE FLEXIBLE LINEAR-SHAPED CHARGE FOR COMMAND DESTRUCT SYSTEM OF SATURN S-IV STAGE
NASA-CR-55071 N64-12099 03-30

CYCLOTRON
SA ION CYCLOTRON
CF PARTICLE ACCELERATOR
RELATIVISTIC ISOCHRONOUS CYCLOTRON - HIGH INTENSITY PROTON ACCELERATOR
ORNL-3540 N64-11314 02-23

CYCLOTRON ORBIT - IBM 709 COMPUTER PROGRAM FOR TRACING SECONDARY BEAMS OUT OF CYLINDRICALLY SYMMETRIC MAGNETIC FIELD
UCRL-11044 N64-11584 03-23

MODIFICATION OF 88 & 184-INCH CYCLOTRON FOR RADIOBIOLOGICAL RESEARCH
UCRL-11128 N64-11623 03-10

PHASE MOTIONS OF IONS IN ISOCHRONOUS CYCLOTRONS AND PHASE CONTROL BY MODULATION OF GAP VOLTAGE
ORNL-3444 N64-16003 07-23

TRANSFORMATION OF FAST CYCLOTRON WAVE TO BACKWARD WHISTLER MODE IN EXOSPHERE
AFCRL-64-80 N64-19652 12-12

MICROWAVE RADIATION AT CYCLOTRON HARMONICS IN A POSITIVE COLUMN IN ARC DISCHARGE
IPPJ-23 N64-22006 15-24

EFFECT OF MEDIUM ON CYCLOTRON ACCELERATION OF RELATIVISTIC PARTICLES N64-23787 16-28

PLASMA PHYSICS, ELECTRON-CYCLOTRON HEATING, CROSS-SECTION MEASUREMENTS, ION AND ATOMIC BEAMS, MAGNETICS AND SUPERCONDUCTIVITY, & VACUUM SYSTEMS
ORNL-3652 N64-25293 17-23

OPTIMUM CONDITIONS FOR OBTAINING PLUTONIUM TRACER FROM NATURAL URANIUM IN CYCLOTRON
N64-25557 17-07

DESIGN AND OPERATION OF CYCLOTRONS AND SYNCHROCYCLOTRONS AND AUXILIARY EQUIPMENT
NASA-CR-56934 N64-28163 20-10

USE OF MULTIPLE DEES IN FREQUENCY MODULATED CYCLOTRON N64-28165 20-10

ELECTRON CYCLOTRON HARMONIC RADIATION FROM PLASMA
MATT-290 N64-28423 20-24

CONVERSION OF PLASMA KINETIC ENERGY TO ELECTROMAGNETIC ENERGY - EVALUATION OF CYCLOTRON RADIATION FROM PLASMA AS ENERGY SOURCE IN RADAR SYSTEMS
RADC-TDR-64-174 N64-29966 21-24

MILLIMETER WAVE LARMOTRON AMPLIFIER - CYCLOTRON WAVE ELECTRON BEAM AMPLIFIER
AED-TDR-63-765 N64-31692 23-09

CYCLOTRON FREQUENCY HYDROMAGNETIC WAVE EXCITATION
NASA-CR-59199 N64-33160 24-12

CYCLOTRON RESONANCE
ELECTRON CYCLOTRON RESONANCE OBSERVED BY RESONANCE PROBE APPLIED TO PLASMA IN MAGNETIC FIELD
IPPJ-15 N64-11249 02-24

INTERACTION OF GUIDED ELECTROMAGNETIC WAVES IN MAGNETOPLASMAS TO STUDY PHENOMENA FROM CYCLOTRON RESONANCE ABSORPTION OF MICROWAVE ENERGY BY GASES
AFCRL-63-737 N64-13073 04-24

ELECTRON CYCLOTRON RESONANCE ABSORPTION METHOD FOR COLLISION RATE MEASUREMENT OF ELECTRON-CESIUM ATOM INTERACTIONS N64-14206 06-23

CYCLOTRON WAVE INTERACTIONS WITH ELECTRON STREAMS AND PLASMAS WITH FINITE CROSS SECTION IN FINITE MAGNETIC FIELD
REPT.-63-14 N64-14775 06-24

MICROWAVE WAVEGUIDE CIRCUIT TO SHOW ELECTRON CYCLOTRON RESONANCE INTERACTION
RADC-TDR-63-509 N64-14967 06-24

WAVE PROPAGATION AND RADIO FREQUENCY MODULATION BY COAXIAL GLOW DISCHARGE AND PLASMA CYCLOTRON RESONANCE ISOLATOR
REPT.-4915-1-F N64-21087 14-24

VERIFICATION OF HOT PLASMA THEORY FOR MICROWAVE PROPAGATION AT SECOND HARMONIC ELECTRON CYCLOTRON RESONANCE
MATT-265 N64-26540 18-24

ANOMALOUS MICROWAVE RADIATION AT CYCLOTRON RESONANCE IN PARTIALLY IONIZED PLASMAS
IPPJ-25 N64-26740 18-24

STUDY OF VALENCE BAND OF GERMANIUM BY CYCLOTRON RESONANCE N64-27188 19-23

CYLINDER
SA CIRCULAR CYLINDER
SA CYLINDRICAL SHELL
SA ROTATING CYLINDER
PRESSURE DISTRIBUTION AND SHOCK STANDOFF DISTANCE FOR BLUNT CYLINDERS IN AIR AT HYPERSONIC SPEEDS
NASA-TN-D-1979 N64-10056 01-02

PRESSURE AND FORCE MEASUREMENT ON A SLENDER, BLUNT, CONE-CYLINDER-FLARE CONFIGURATION AT HYPERSONIC SPEED
ARC-CP-657 N64-10138 01-02

EMITTANCE MEASUREMENT FOR SHEET MATERIALS AT LOW TEMPERATURE, AND MATHEMATICAL EXPRESSION FOR CYLINDRICAL CONFIGURATION N64-10954 02-13

BOUNDARY CONDITION EFFECT ON THE STABILITY OF CYLINDERS SUBJECT TO LATERAL AND AXIAL PRESSURES
LMSC-6-90-63-91 N64-11247 02-14

THERMOCONDUCTIVITY IN HOLLOW CYLINDER - FOURIER DIFFERENTIAL EQUATION
EUR-377.D N64-11261 02-13

JET PLUMING EFFECT ON TWO FREE-FLIGHT ROCKET-PROPELLED CONE-CYLINDER-FLARE VEHICLES DETERMINED BY COMPUTER SIMULATION
NASA-TN-D-2018 N64-11552 03-27

STABILITY OF THIN CYLINDRICAL ELASTIC SHELLS UNDER STATIC AND IMPULSIVE LOADS
STL-TRANS-73 N64-11994 03-33

UNSTEADY PRESSURES ON CONE-CYLINDER BODIES AT TRANSONIC SPEEDS
AEDC-TDR-63-204 N64-12302 03-11

ECHO AREA FOR N-LAYER PLASMA CYLINDER AND SPHERE
AFCRL-63-387 N64-12606 04-24

FINITE PLANE DEFORMATION OF CASE BONDED HOLLOW CYLINDER
CU-20-63-ONR-266/78/-CE N64-12821 04-33

ELASTIC & ACOUSTIC WAVE RADIATION FROM CYLINDRICAL MEDIA ABOUT A POINT SOURCE
REPT.-5178-14-T/3-23-T N64-13111 04-23

FLUX QUANTIZATION IN SUPERCONDUCTORS - THIN SUPERCONDUCTING CYLINDRICAL TUBE
N64-13140 04-23

FORCES ON CYLINDER IN SHEAR FLOW OF VISCOUS FLUID THROUGH NARROW CHANNEL
ARC-R&M-3343 N64-13386 04-11

SLOTTED CYLINDER ANTENNA FOR ROCKET-BORNE RADIOSONDE APPLICATIONS
USAELRDL-TR-2368 N64-13870 05-08

LARGE DEFLECTION OF RECTANGULAR CYLINDRICAL PANELS UNDER UNIFORM EXTERNAL PRESSURE
RAE-TRANS-1051 N64-14462 04-33

BUCKLING COEFFICIENTS FOR CYLINDERS OF SANDWICH CONSTRUCTION UNDER AXIAL COMPRESSION
FPL-018 N64-15053 07-33

FUSELAGE TORSIONAL TEST OF ALUMINUM ALLOY MONOCOQUE CYLINDERS
FTDM-2879 N64-15572 07-33

THERMAL STRESSES IN ANISTROPIC HOLLOW CYLINDERS AND APPLICATION TO PYROLYTIC GRAPHITE CYLINDERS
WADD-TR-61-72, VOL. 19 N64-15576 07-19

OPTIMUM METHOD FOR FORMING CLOSED-RIBBED PLATE TO CYLINDRICAL AND SPHERICAL SHAPES FOR MISSILE COMPONENTS
NASA-CR-55749 N64-15868 07-17

THEORY OF ELECTROMAGNETIC SCATTERING FROM PLASMA CYLINDERS
RM-3573-ARPA N64-16045 07-24

FREE MOLECULAR FLOW OF RAREFIED GAS PAST CYLINDRICAL BODIES N64-16599 08-23

PRESSURE, TEMPERATURE, AND FILM THICKNESS BETWEEN TWO LUBRICATED ROLLING AND SLIDING CYLINDERS - THERMOELASTOHYDRODYNAMICS
RTI-63TR48 N64-16792 08-17

EXTERNAL-LOAD TEST OF WELDED JOINTS BETWEEN CYLINDRICAL PRESSURE VESSELS N64-16857 08-33

FLOW FIELD ABOUT HEMISPHERE-CYLINDER BODY AT HYPERSONIC SPEED
FFA-92 N64-16975 09-02

EVALUATION OF EARTH SOIL IMPACT BY CYLINDRICAL PROJECTILES FROM NUCLEAR POWER SUPPLY SYSTEMS
SC-RR-316-63 N64-17260 09-30

CROSS SECTIONS OF CYLINDERS WITH UNIFORM DIFFUSE RADIATION CHARACTERISTICS
NASA-RP-143 N64-17563 09-13

PRESSURE DATA FOR MACH 5 FLOWS OVER WINGED REENTRY CONFIGURATION COMPOSED OF DELTA WING MOUNTED, CONICALLY CAPPED CYLINDRICAL CABIN
RTD-TDR-63-4179, PT. 2 N64-17654 09-04

RESONANT FREQUENCIES AND DAMPING RATIO FOR COMPARTMENTED CYLINDRICAL TANKS
NASA-CR-55947 N64-17674 09-11

MINIMUM WEIGHT ANALYSIS OF STIFFENED CYLINDERS UNDER AXIAL COMPRESSION FOR LAUNCH VEHICLES
NASA-CR-53317 N64-17763 09-34

UNSTEADY FLOW WITHIN LIQUID-FILLED SPINNING CYLINDER OF FINITE LENGTH
BRL-1225 N64-17860 10-11

RAREFIED HYPERSONIC FLOW ABOUT BLUNT AXISYMMETRIC BODIES, CYLINDERS NORMAL TO & INCLINED TO STREAM, AND POINTED CONES
ARL-64-27 N64-18019 10-11

VARIATIONAL SOLUTION TO SOUND WAVE IN SOLID CYLINDRICAL RADIATION SOURCE OF FINITE LENGTH
U-177-48 N64-18266 10-23

BASE DRAG CHARACTERISTICS OF OGIVE-CYLINDER MISSILE MODEL WITH BASE NOZZLE FLOW
AEDC-TDR-64-87 N64-20838 14-02

CRITICAL DIMENSIONS OF URANIUM-GRAPHITE-WATER SPHERES, INFINITE SLABS, AND INFINITE CYLINDERS
LAMS-2955 N64-20885 14-23

NUMERICAL SOLUTION TO THERMAL-ELASTOHYDRODYNAMIC LUBRICATION OF ROLLING AND SLIDING CYLINDERS
RTI-64TR7 N64-21223 14-17

ASYMMETRIC INVISCID MODES OF INSTABILITY FOR SPIRAL FLOW BETWEEN TWO CONCENTRIC ROTATING CYLINDERS
REPT.-562/07//55 N64-21324 14-11

TEMPERATURE-TIME DATA FROM STEEL CYLINDER ENGULFED BY AIRCRAFT-FUEL FIRE
NAVWEPS-8292 N64-21573 15-13

MANUFACTURING AND PRODUCTION METHODS FOR CYLINDRICAL TANKS
FTD-TT-62-1615/1&2 N64-22391 15-17

ALBEDO METHOD ANALYSIS OF INTERACTION OF SUBCRITICAL SPHERICAL & CYLINDRICAL BODIES IN AIR N64-22928 16-23

STEADY MOTION AND MUTUAL INTERFERENCE OF ANNULAR WING AND INFINITE CYLINDRICAL BODY IN IDEAL INCOMPRESSIBLE FLUID N64-23079 16-03

HEAT TRANSFER ON SURFACE OF CYLINDER WITH AXIAL FLOW OF HIGHLY VISCOUS FLUID
FTD-TT-62-1333/1&2 N64-23404 16-11

FLOW STABILITY ON CYLINDRICAL BODY - RADIAL-AXIAL TURBINE AND TURBOJET ENGINE THROTTLING
FTD-TT-62-1644/1&2&4 N64-23470 16-01

LINEAR PROBLEM OF LOCAL STABILITY OF CIRCULAR CYLINDRICAL ENVELOPE IN NONUNIFORM FORCES N64-23471 16-13

STRUCTURAL BEHAVIOR OF INFLATED FABRIC CYLINDERS UNDER VARIOUS LOADING CONDITIONS N64-23732 16-33

MINIMIZATION OF RADAR CROSS SECTION OF CYLINDER BY CENTRAL LOADING
AFCRL-64-356 N64-24137 16-33

LOBAR MODE OSCILLATIONS OF CYLINDRICAL SHELLS UNDER POINT LOADING
TR-9 N64-24179 16-33

RADAR REFLECTION DETECTION AND MEASUREMENT OF NEAR FIELD OF STYROFOAM CYLINDER N64-24322 17-08

ION-ENGINE DESIGN PROBLEMS OF HIGH CONTACT PRESSURE, THRUST MEASUREMENT, AND CYLINDRICAL BODY DESIGN
NASA-RP-200 N64-24529 17-27

OPTICAL MEASUREMENTS ON CONES AND CYLINDERS - LIGHT REFLECTION
EDL-M614 N64-24758 17-23

STIFFENED AND UNSTIFFENED CYLINDERS TESTED IN BIAXIAL HYDROSTATIC COMPRESSION
QPR-7 N64-24894 17-23

HYDROSTATIC PRESSURE TESTS OF RING-STIFFENED CYLINDER OF OVAL CROSS-SECTION
DTMB-1788 N64-25121 17-33

DRAG-AT-ZERO-LIFT OF PLANE AND HEMISPHERICAL NOSED CYLINDERS AT VARIOUS MACH NUMBERS
ARC-CP-709 N64-25176 17-02

BACKSCATTERING BY PLASMA-CONTAINING INFINITE CYLINDER UNDER OBLIQUE ILLUMINATION
TR-387 N64-25351 17-24

DESIGN OF ROW OF WINDOWS IN PRESSURIZED CYLINDRICAL FUSELAGE
ARC-R&M-3360 N64-25479 17-34

VIBRATIONS OF CYLINDRICALLY CURVED ELASTIC SANDWICH PLATES
ARC-R&M-3363 N64-25553 17-33

PARAMETRIC STUDY OF HYPERSONIC FLOW FIELDS ABOUT BLUNT-NOSED CYLINDERS AT ZERO ANGLE OF ATTACK
NASA-TN-D-2342 N64-25711 17-02

AUTOMATIC SOLDERING MACHINE FOR SEALING COMBUSTIBLE CYLINDRICAL ELEMENTS N64-26087 18-17

SUPERSONIC COMBUSTION IN CYLINDRICAL CANAL N64-26329 18-26

AXIAL FLOW FROM END OF METALLIC CYLINDER BOUNDED BY INSULATING WALL UNDER CAPACITOR DISCHARGE CONDITIONS
SID-64-874 N64-26465 18-24

EFFECTS OF LATERAL INERTIA ON PROPAGATION OF PLASTIC STRAIN IN CYLINDRICAL ROD
LAMS-3081 N64-26486 18-33

BUCKLING OF AXIALLY COMPRESSED ORTHOTROPIC SANDWICH CYLINDERS
REPT.-6-62-64-9 N64-27224 19-33

HEAT-TRANSFER RATES AND ABLATION ON BLUNT FLARED CYLINDER IN FREE FLIGHT AT HYPERSONIC AND LOWER SPEEDS
NASA-TN-D-2383 N64-27505 19-13

ELECTROSLAG WELDING OF CYLINDERS N64-27621 19-17

COMPRESSION TEST RESULTS ON CYLINDERS WITH

ECCENTRIC LONGITUDINAL STIFFENERS
NASA-TN-X-1004 N64-28319 20-33

AXIALLY SYMMETRIC OSCILLATIONS OF CYLINDRICAL SHELLS IN SUPERSONIC GAS FLOW N64-28482 20-33

REVERSIBILITY OF STABILIZED MOTION OF ANNULAR WING AND COAXIAL INFINITE CYLINDER
N64-28486 20-03

CESIUM VAPOR EFFLUX PATTERNS AND FLOW RATES FROM CYLINDRICAL TUBES DETERMINED IN FREE MOLECULE AND SLIP FLOW REGIMES
NASA-TN-D-2480 N64-28652 20-11

TWO-CONTACT PARALLELOGRAM INSTRUMENT FOR ACTIVE CONTROL OF DIAMETERS OF CYLINDERS BEING TURNED ON LATHES N64-29147 21-15

GEOMETRY OF ORTHOGONAL NON-HYPOIDAL CYLINDRICAL-CONICAL TRANSMISSION N64-29150 21-15

STATIC AERODYNAMIC CHARACTERISTICS OF BLUNTED CONES AND ROUNDED CYLINDERS AT SUPERSONIC AND HYPERSONIC SPEEDS
NASA-CR-58666 N64-29212 21-02

STABILITY OF FLOW BETWEEN CONCENTRIC CYLINDRICAL SURFACES IN PRESENCE OF CIRCULAR MAGNETIC FIELD
MTI-64TR25 N64-29348 21-24

MICROWAVE SCATTERING FROM PLASMA COLUMN IN RECTANGULAR WAVEGUIDE
IPPJ-27 N64-29354 21-24

SPIRAL MOTION OF ELECTRICALLY CONDUCTIVE GAS BETWEEN COAXIAL PERMEABLE CYLINDERS IN PRESENCE OF MAGNETIC FIELD
NASA-TT-F-240 N64-29498 21-24

TRANSIENT BODY TEMPERATURES IN HOLLOW CYLINDERS WITH HEATED INTERIOR AND INSULATED EXTERIOR SURFACE - CYLHEAT HANDBOOK
ABL/X-123 N64-29895 21-13

SCATTERING OF ELECTROMAGNETIC RADIATION IN TRANSVERSE MAGNETIC MODE BY PLASMA CYLINDERS WITH VARYING ELECTRON DENSITY DISTRIBUTIONS
RM-3574-ARPA N64-29919 21-24

NEUTRON SELF-SHIELDING FACTORS FOR MULTIPLE-BODY CONCENTRIC CYLINDER CONFIGURATIONS
NASA-TN-D-1587 N64-30191 21-23

EXACT SOLUTION FOR THREE-DIMENSIONAL STATIONARY DYNAMIC ELASTICITY OF ISOTROPIC CYLINDER
N64-30421 22-33

CIRCULAR COUETTE FLOW TRANSITION BETWEEN CONCENTRIC ROTATING CYLINDERS
AD-603095 N64-30881 22-11

LAMINAR FREE CONVECTION FROM HORIZONTAL CYLINDER WITH WALL SURFACE HEAT FLUX
D1-82-0282 N64-31326 22-13

VIBRATIONS OF SOLID ISOTROPIC ELASTIC CYLINDERS
NRE-63/4 N64-32155 23-33

OPTIMUM CONSTRUCTION OF ORTHOTROPIC REINFORCED PLASTIC CYLINDERS SUBJECTED TO HIGH EXTERNAL PRESSURE
SM-44594 N64-32157 23-33

NONSTATIONARY, ONE-DIMENSIONAL HEAT FLOW IN LEVEL PLANE, CYLINDER, SPHERE, AND SEMIINFINITE BODY BY FOURIER EQUATIONS N64-32182 23-13

LOW FREQUENCY APPROXIMATIONS FOR SCATTERING BY DIELECTRIC ELLIPTIC CYLINDERS USED IN MATHIEU FUNCTION SERIES SOLUTION
EDL-M725 N64-32562 23-23

INVESTIGATION OF INFLUENCE OF RING STIFFENERS ON ORTHOTROPIC CYLINDER INSTABILITY IN AXIAL COMPRESSION
NASA-TN-D-2482 N64-32840 24-33

IONOSPHERIC ELECTRON DENSITY AND BODY POTENTIAL MEASUREMENTS BY CYLINDRICAL PROBE
NASA-CR-59158 N64-33278 24-12

CYLINDRICAL SHELL
BENDING VIBRATION OF CIRCULAR CYLINDRICAL SHELL WITH INTERNAL LIQUID HAVING FREE SURFACE
N64-10305 01-33

SOUND SCATTERING OF STEADY STATE PLANE WAVE BY HOLLOW CYLINDER OF ARBITRARY THICKNESS - SUBMARINE DETECTION
RM-223 N64-10538 01-23

RESONANT VIBRATIONS IN LONGITUDINALLY STIFFENED CIRCULAR CYLINDRICAL SHELLS N64-10823 02-33

STRESSED STATE OF CYLINDRICAL SHELLS REINFORCED WITH RIBS - TWO METHODS OF SOLUTION
FTD-TT-62-1623/1&2 N64-11189 02-34

INSTABILITY OF ORTHOTROPIC CIRCULAR CYLINDRICAL SHELL SUBJECTED TO PRESSURE & AXIAL LOAD - CLAMPED AND SIMPLY SUPPORTED EDGE CONDITIONS
NASA-CR-52881 N64-11335 02-33

INFLUENCE OF INITIAL STRESS ON VIBRATIONS OF SIMPLY-SUPPORTED CIRCULAR CYLINDRICAL SHELLS
PIBAL-673 N64-11759 03-33

STABILITY OF THIN CYLINDRICAL ELASTIC SHELLS UNDER STATIC AND IMPULSIVE LOADS
STL-TRANS-73 N64-11994 03-33

STRENGTH & STABILITY OF AXISYMMETRIC, BIMETALLIC, CYLINDRICAL SHELLS
RSIC-12 N64-12299 03-18

ACOUSTIC & DYNAMIC EFFECTS OF INCREASE OF STIFFENERS IN CYLINDRICAL SHELLS
U413-62-173 N64-12594 04-23

BUCKLING TESTS ON THIN CIRCULAR CYLINDRICAL SHELLS HEATED ALONG AXIAL STRIP
SUDAER-163 N64-13033 04-33

BUCKLING LOAD OF CIRCULAR CYLINDRICAL SHELLS UNDER AXIAL COMPRESSION
NASA-RP-95 N64-13223 04-33

THIN SHELL THEORY EVALUATION OF NONLINEAR SHEARS AND MOMENTS AT PRESSURIZED CYLINDRICAL SHELL JUNCTION
GD/A-62-0767 N64-14550 06-33

BUCKLING LOADS OF LONGITUDINALLY PRESSED THIN-WALLED CIRCULAR CYLINDRICAL SHELLS
DFL-214 N64-15021 07-33

STRENGTH OF SPHERICAL AND CYLINDRICAL SHELLS AND EFFECT OF NEUTRON IRRADIATION
FTD-TT-62-719/1&2&4 N64-16058 07-23

INVESTIGATION OF BREATHING MODE VIBRATIONS OF MULTILAYERED CYLINDRICAL SHELLS
TDR-169/2240-65/TR-2 N64-16595 08-33

PANEL FLUTTER OF RING AND LONGERON STIFFENED CIRCULAR CYLINDRICAL SHELL AT HIGH SUPERSONIC SPEEDS
AFOSR-64-0074 N64-17452 09-33

STRESSED AND DEFORMED STATE OF STIFFENED CIRCULAR CYLINDRICAL SHELL ACTED UPON BY TRANSVERSE PRESSURE AND UNIFORM AXIAL LOADS
NASA-TT-F-194 N64-17830 09-33

METHODS FOR PREDICTING DEFORMATION BEHAVIOR OF CORRUGATED CYLINDRICAL AND CONICAL SHELL STRUCTURES - ENERGY ABSORPTION
AFOSR-64-0154 N64-18037 10-33

INSTANTANEOUS COLLAPSE AND CREEP BUCKLING OF CYLINDRICAL SHELLS
ORNL-3555 N64-18275 10-33

ELASTIC STABILITY OF CYLINDRICAL SHELLS UNDER COMPRESSIVE LOADING USING DONNELL EQUATION
NASA-CR-53361 N64-18298 10-33

DETERMINING STRESS DISTRIBUTION IN THIN WALLED CYLINDRICAL AND SPHERICAL PRESSURE VESSELS WITH CIRCULAR NOZZLES
NASA-CR-53580 N64-18445 10-33

BUCKLING BEHAVIOR OF GEOMETRICALLY ORTHOTROPIC CYLINDRICAL SANDWICH SHELLS
AD-436033 N64-18616 11-33

BUCKLE DEPTH IN CIRCULAR CYLINDRICAL SHELLS COMPRESSED TO BUCKLING LIMIT
SUDAER-174 N64-18700 11-33

EULER MOMENTUM EQUATION OF YAWING MOTION OF SPINNING SHELL IN FREE FLIGHT HAVING LIQUID-FILLED CYLINDRICAL CAVITY
BRL-1233 N64-18774 11-11

REPEATED BUCKLING OF CIRCULAR CYLINDRICAL SHELLS AND CONICAL SHELLS BY AXIAL COMPRESSION
SUDAER-175 N64-18843 11-33

PRESSURE PROBES, DRAG MEASUREMENT DEVICES, AND DUST COLLECTORS TO MEASURE DYNAMIC AND SURFACE PRESSURE ON CYLINDRICAL BODIES
DASA-1433 N64-18846 11-15

POST-BUCKLING BEHAVIOR OF CYLINDRICAL SHELLS - AXIAL COMPRESSION AND EXTERNAL PRESSURE EFFECTS
NASA-TT-F-90 N64-18950 11-33

CREEP ANALYSIS OF THIN CIRCULAR CYLINDRICAL SHELLS
PIBAL-685 N64-20330 13-33

STRESS CALCULATION FOR OPEN CYLINDRICAL SHELL UNDER CENTRIFUGAL FORCES
RSIC-155 N64-20458 13-33

DONNELL EQUATIONS FOR DEFORMATIONS OF THIN CYLINDRICAL ELASTIC SHELL SUBJECTED TO LATERAL PRESSURE
IAM-NYU-320 N64-20570 13-33

SHEARING FORCES IN CYLINDRICAL OR SECTIONALLY VARIABLE THIN CONICAL SHELLS
DVL-274 N64-21528 15-33

OSCILLATING BEHAVIOR OF TRANSVERSELY LOCATED CIRCULAR CYLINDER SHELL
DFL-231 N64-21707 15-33

POST-BUCKLING BEHAVIOR OF CYLINDRICAL SHELLS STRESSED IN TORSION
NASA-TT-F-196 N64-22026 15-33

DISPLACEMENT OF BUCKLING OF AXIALLY COMPRESSED CIRCULAR CYLINDRICAL SHELLS
SSD-TDR-64-24 N64-22303 15-33

ELASTIC AND PLASTIC DEFORMATIONS OF CYLINDRICAL THIN SHELLS UNDER DYNAMIC LOADING
TR-3 N64-22326 15-33

ANISOTROPIC CYLINDRICAL SHELLS N64-22806 16-23

AERODYNAMIC CHARACTERISTICS OF CYLINDRICAL SHELLS AND WINGS
FTD-TT-62-1111/1&2 N64-23066 16-03

STRESS IN CYLINDRICAL SHELLS OF ARBITRARY CROSS-SECTION N64-23077 16-34

LOBAR MODE OSCILLATIONS OF CYLINDRICAL SHELLS UNDER POINT LOADING
TR-9 N64-24179 16-33

STABILITY OF AXIALLY LOADED THIN CYLINDRICAL SHELL UNDER DYNAMIC LATERAL PRESSURES
AIAA PAPER-64-485 N64-24218 16-23

MECHANICAL PROPERTIES OF CYLINDRICAL SHELLS FORMED BY SPIN FORGING OF 18 PERCENT NICKEL MARAGING STEEL N64-24358 17-17

PREDICTION OF BUCKLING OR COLLAPSE FAILURE MODE IN PLASTIC DEFORMATION OF CYLINDRICAL SHELLS
TR-4 N64-24392 17-33

BENDING DUE TO RING LOADING OF CYLINDRICAL SHELL WITH ELASTIC CORE
TDR-169/3560-30/TN-5 N64-24393 17-33

FORTRAN II COMPUTER PROGRAM FOR USE WITH UNIVAC 80 SOLID-STATE COMPUTER FOR SOLVING DIFFERENTIAL EQUATIONS OF SIMPLY-SUPPORTED CYLINDRICAL SHELLS N64-24841 17-33

STABILITY OF REINFORCED CYLINDRICAL AND CONICAL SHELLS - ANNOTATED BIBLIOGRAPHY N64-24844 17-33

EQUATIONS OF AXISYMMETRIC VIBRATIONAL FORCES ON LIQUID-FILLED THIN-WALLED CYLINDRICAL SHELLS
NASA-TT-F-219 N64-25173 17-33

SEMIMOMENTLESS THEORY OF CYLINDRICAL LAMINAR SHELL
NASA-TT-F-8900 N64-25284 17-33

CREEP BUCKLING OF CIRCULAR CYLINDRICAL SHELLS SUBJECTED TO AXIAL COMPRESSION
FFA-98 N64-25999 18-33

TEMPERATURE DISTRIBUTION ON CONDUCTING CYLINDRICAL SHELLS INCLUDING EFFECTS OF THERMAL RADIATION
NASA-RP-264 N64-26080 18-13

FREE OSCILLATIONS OF CYLINDRICAL SHELL REINFORCED WITH STIFFENED RIBS
FTD-TT-64-72/1 N64-26112 18-33

VIBRATION STUDY OF TWO RING-STIFFENED CYLINDRICAL SHELLS FOR NOISE FACILITY TEST CHAMBER
NASA-TN-D-2398 N64-27201 19-33

PLASTIC BUCKLING OF CYLINDRICAL SHELLS UNDER AXIAL COMPRESSION
AD-441942 N64-27420 19-33

PRESSURE FIELD INDUCED IN ACOUSTIC FLUID BY HARMONIC EXCITATION OF SUBMERGED CYLINDRICAL SHELL OF FINITE LENGTH
TR-3 N64-27787 19-23

CALCULATION OF RADIAL SHIFT OF VERY LONG CYLINDRICAL SHELL BY SUPERPOSITION METHOD N64-27982 20-33

DEFORMATION OF THIN WALLED CYLINDRICAL SHELLS BY EXTERNAL BLAST LOADING
BRL-MEMO-1560, PT. 2 N64-28155 20-33

ORBITAL TRANSFER DURING ATMOSPHERIC REENTRY - AXISYMMETRIC OSCILLATIONS OF CYLINDRICAL SHELLS IN SUPERSONIC GAS FLOW
FTD-MT-63-220 N64-28171 20-23

AXISYMMETRIC OSCILLATIONS OF CYLINDRICAL SHELLS IN SUPERSONIC GAS FLOW N64-28173 20-02

AXIALLY SYMMETRIC OSCILLATIONS OF CYLINDRICAL SHELLS IN SUPERSONIC GAS FLOW N64-28482 20-33

FREQUENCY AND PRESSURE EFFECTS IN PANEL FLUTTER OF CYLINDRICAL SHELLS
AS-64-6 N64-28558 20-33

VIBRATION AND STABILITY OF RIBBED CYLINDRICAL SHELLS IN COMPRESSIBLE LIQUID FLOW
FTD-TT-63-647/1 N64-29027 21-33

DYNAMIC STABILITY OF SHORT CYLINDRICAL SHELLS & CURVILINEAR PANELS IN SUPERSONIC GAS FLOW
FTD-TT-63-1227/1&2 N64-29028 21-03

RING STIFFENERS FOR AXIALLY SYMMETRIC CYLINDRICAL SHELLS
DTMB-1894 N64-29732 21-34

DISTRIBUTION OF EXPERIMENTAL BUCKLING LOAD VALUE FOR CYLINDRICAL SHELLS
TRECOM-TR-64-31 N64-29933 21-33

STRESS CONCENTRATION AROUND CURVILINEAR OPENINGS IN WALLS OF CIRCULAR CYLINDRICAL SHELLS N64-30424 22-33

BUCKLING OF AXIALLY LOADED CYLINDRICAL SHELLS -

TEST PROGRAM
LMSC-6-90-63-77 N64-31094 22-33

PLASTIC GENERAL-INSTABILITY OF TRANSVERSE RING-STIFFENED CYLINDRICAL SHELLS SUBJECTED TO EXTERNAL HYDROSTATIC PRESSURE
DTMB-1587 N64-31704 23-34

STRESS DISTRIBUTION IN THICK WALLED CYLINDRICAL SHELLS - THREE DIMENSIONAL PHOTOELASTICITY
AFWL-TDR-64-65 N64-32143 23-33

STRESS CONCENTRATION IN NONLINEAR CREEP OF CIRCULAR CYLINDRICAL SHELL
NONR-562/20//36 N64-33022 24-33

FLUTTER OF CYLINDRICAL SHELL MOVING IN SUPERSONIC GAS FLOW - GALERKIN METHOD N64-33032 24-33

BUCKLING OF SHELLS UNDER DYNAMIC LOADS - STABILITY OF AXIALLY-LOADED THIN CYLINDRICAL SHELLS UNDER DYNAMIC LATERAL PRESSURES
NASA-CR-58949 N64-33280 24-33

STABILITY BEHAVIOR OF THIN WALLED CIRCULAR CYLINDRICAL SHELLS UNDER AXIAL LOAD AND INTERNAL PRESSURE BY APPLYING NONLINEAR SHELL EQUATIONS
NOR-64-80 N64-33463 24-33

CYLINDRICAL WAVE
SPREADING OF SPHERICAL AND CYLINDRICAL WAVES
DVL-280 N64-15027 07-11

CYLINDRICAL INHOMOGENEITY IN RECTANGULAR WAVEGUIDE N64-31356 23-09

CYSTEINE
EFFECT OF HISTAMINE AND CYSTEINE ON NITROGEN EXCRETION FROM LIVER OF IRRADIATED FROG
NIJS-R-423 N64-21049 14-14

RADIATION PROTECTION FOR MONKEY WITH L-CYSTEINE AND AMINOETRYLISOTHIURONIUM DIBROMIDE
SAM-TDR-64-40 N64-32031 23-16

CYTOGENESIS
S BIOLOGICAL CELL

CYTOLOGY
BIOPHYSICS, CHEMISTRY & CYTOLOGY FOR DETERMINATION OF LIFE PHENOMENA
JPRS-21966 N64-10329 01-16

MICROBIOLOGICAL AND CYTOLOGICAL INVESTIGATIONS OF CONDITIONS IN OUTER SPACE, & GENETIC EFFECTS OF SPACE FLIGHT N64-11670 03-16

CYTOLOGICAL EXAMINATION OF RADIOSENSITIVITY OF BONE MARROW & LYMPH NODE CELLS IN DIFFERENT SPECIES OF IRRADIATED MAMMALS
JPRS-22778 N64-13230 04-16

LYSOMES, MITOCHONDRIA, AND GOLGI APPARATUS ALTERATION PATTERN STUDIES DURING AUTOLYSIS AND ANOXIC NECROBIOSIS CONDUCTED ON RAT LIVER LESION N64-14605 06-16

PHOTOSYNTHETIC VARIABILITY IN ALGAE CELLS N64-19495 12-16

MICROBIOLOGICAL AND CYTOLOGICAL STUDIES IN CONQUEST OF SPACE N64-23751 16-16

CYTOCHEMICAL IDENTIFICATION AND LOCALIZATION OF POLYSACCHARIDE /CHITIN/ IN CELL WALLS OF FUNGI
AMRL-TDR-64-52 N64-29974 21-16

GRAVITY AND RADIATION EFFECTS ON CELL GROWTH AND ULTRASTRUCTURE N64-33453 24-16

CZECHOSLOVAKIA
ASTROGRAVIMETRIC LEVELING OF GEODETIC POINTS IN BOHEMIA AND MORAVIA
JPRS-18266 N64-10500 01-12

ABSTRACTS ON INVERTEBRATE AND VERTEBRATE BEHAVIOR, PHYSIOLOGY, ENDOCRINOLOGY, GENETICS, EMBRYOLOGY, EVOLUTION, AND CELL BIOLOGY
NASA-CR-59307 N64-33513 24-16

D

D LAYER
OF IONOSPHERE
ARCTIC D-REGION STUDY BY SOUNDING ROCKETS & GROUND OBSERVATIONS
AFCRL-63-748 N64-11451 03-12

SOLAR FLARE EFFECTS IN D AND E LAYERS OF IONOSPHERE N64-15435 07-12

D-LAYER DISSOCIATIVE RECOMBINATION COEFFICIENT DETERMINED FROM HIGH ALTITUDE NUCLEAR EXPLOSION
P-2756 N64-16248 08-12

IONOSPHERIC IRREGULARITY - E- AND D-REGION IRREGULARITIES
AFCRL-63-532 N64-17192 09-12

PHYSICAL PROPERTIES OF IONOSPHERIC D-LAYER N64-19677 12-12

ELECTRON DENSITY PROFILES IN QUIET D-LAYER FROM IONOSPHERIC CROSS MODULATION OBSERVATIONS N64-19678 12-12

IRREGULARITIES OF IONOSPHERIC D-LAYER AND EFFECT ON WAVEFORM OF ATMOSPHERICS N64-19681 12-12

NATURE AND SIZE OF IRREGULARITIES IN D-LAYER OF IONOSPHERE OBSERVED ON NEAR VERTICAL VERY LOW FREQUENCY IONOSPHERIC SOUNDER N64-19682 12-12

EARTH-IONOSPHERE CAVITY RESONANCES AND EFFECT OF LOWER D-LAYER N64-19704 12-12

SATELLITE AND ROCKET STUDY OF D AND E LAYERS AND SOLAR RADIATION INTENSITY IN IONOSPHERE N64-22037 15-29

RADIO FREQUENCY PROBE FOR ELECTRON DENSITY AND COLLISION FREQUENCY MEASUREMENTS IN D AND E REGIONS OF IONOSPHERE
NASA-CR-56725 N64-27271 19-15

ELECTRON DENSITY PROFILE DETERMINATION OF IONOSPHERIC D REGION - ANALYSIS OF RADIO WAVE PROPAGATION EFFECTS IN D REGION
E-T-R-64-24 N64-28688 20-12

ELECTRON DENSITY AND COLLISION FREQUENCY IN D LAYER OF IONOSPHERE USING ROCKET MEASUREMENTS OF DIFFERENTIAL ABSORPTION AND FARADAY ROTATION
NASA-CR-56939 N64-29197 21-12

ELECTRON DENSITY PROFILES FOR QUIET DAY MID-LATITUDE D REGION USING NIKE-APACHE SOUNDING ROCKETS
NASA-TM-X-55075 N64-33558 24-12

DACRON
S NYLON
S POLYETHYLENE TEREPHTHALATE
S SYNTHETIC FIBER

DAMAGE
SA METEORITIC DAMAGE
SA PROTON DAMAGE
ATMOSPHERIC POLLUTION DAMAGE - MATERIAL LOSSES, DIRECT & INDIRECT LOSSES, AND EFFECT OF POLLUTANTS ON HUMANS
N64-11048 02-21

DAMAGE CAUSED BY BOMB ATTACKS REPRESENTED AS DOUBLE INTEGRAL FOR ANY GEOMETRICAL SHAPE AND SIZE OF TARGET
ORA-63-16 N64-16654 08-01

CAVITATION DAMAGE AND PERFORMANCE RESEARCH FACILITIES
NASA-CR-53119 N64-16756 08-10

EFFECTS OF MECHANICAL DAMAGE ON PERFORMANCE OF FILAMENT WOUND MOTOR CASES
GER-11154/55 N64-20180 13-34

STRUCTURAL DAMAGE IN METAL FORMING PROCESSES
REPT.-64-GC-0272M N64-24238 17-18

DAMAGE TO SILICON AND GALLIUM ARSENIDE SOLAR CELLS FROM LOW ENERGY PROTON IRRADIATIONS
N64-29156 21-06

ENERGY DEPENDENCE OF ELECTRON DAMAGE IN SILICON
N64-29157 21-06

IMPURITY EFFECT ON RADIATION DAMAGE OF SILICON SOLAR CELLS - TENDENCY OF BORON ATOMS IN SILICON TO CREATE RECOMBINATION CENTERS
N64-29158 21-06

RADIATION RESISTANCE OF SILICON WEBBED DENDRITIC SOLAR CELLS - DIFFUSION TECHNIQUES, DRIFT FIELD, STRUCTURES, AND EFFECT OF VACUUM ENVIRONMENT ON DAMAGE RATES
N64-29160 21-06

WIRE DAMAGE TESTING OF GEMINI INTERSTAGE HARNESS BY PROPELLANT COMPATIBILITY, HUMIDITY, VIBRATION, AND ALTITUDE
LV-346 N64-31599 23-17

EXACT MATHEMATICAL DERIVATION OF EXPECTED DAMAGE TO CIRCULAR TARGET BY MULTIPLE WARHEAD
NWL-1936 N64-31661 23-20

DAMAGE TO MATERIALS FROM POSITIVE AND NEGATIVE DIRECT CURRENT /DC/ CORONA DISCHARGES
N64-32754 24-07

RADIATION DAMAGE AND EFFECTS IN CRYSTALS AND ORGANIC MATERIAL
NASA-CR-52949 N64-33783 24-23

DAMPER
EFFECT OF CHANGES IN BASE CONTOUR ON DAMPING IN PITCH OF BLUNTED CONE IN WIND TUNNEL
NASA-TN-D-2062 N64-10183 01-02

ELECTRODYNAMIC DAMPER BASED ON ELECTROMAGNETIC INTERACTION BETWEEN DAMPING SYSTEM AND VIBRODEXTINGUISHED ELEMENT
FTD-MT-63-28/1626364 N64-11161 02-23

SPRING-MASS-DAMPER SHOCK ISOLATOR SYSTEM
NASA-CR-55 N64-22041 15-17

DECAY RATES OF PASSIVE PENDULUM WOBBLE PRECESSION DAMPERS AND THEIR BOUNDS
AIAA PAPER-64-658 N64-27645 19-06

DAMPING
SA HYSTERESIS
SA LANDAU DAMPING
SA TRANSIENT OSCILLATION
OF MOTION

EFFECT OF CHANGES IN BASE CONTOUR ON DAMPING IN PITCH OF BLUNTED CONE IN WIND TUNNEL
NASA-TN-D-2062 N64-10183 01-02

INERTIAL SIMULATOR WITH AUTOMATIC DAMPING CONTROL SUITABLE FOR ROTATING MANNED SPACE STATION
NASA-CR-50791 N64-10346 01-10

BIBLIOGRAPHY - SHOCK, VIBRATION, & DAMPING IN PACKAGING
TDCK-28650 N64-10462 01-33

VIBRATION TESTING OF LINEAR AND NONLINEAR STRUCTURES AND INTERNAL DAMPING BY HARMONIC EXCITATION
N64-13557 04-33

ELASTIC AND DAMPING PROPERTIES OF LIGHT AIRCRAFT & COMPRESSOR BLADES
N64-13561 05-03

EFFECT OF SOLUTE ELEMENTS ON MAGNETOELASTIC DAMPING & COERCIVITY IN VERY PURE IRON
AD-428026 N64-14642 06-23

DAMPING FACTORS FOR ATLAS LAUNCH VEHICLES
GD/A-63-0376 N64-14786 06-30

SLOW NEUTRON SCATTERING FROM ANHARMONIC CRYSTALS - DAMPING THEORY AND SCATTERING CROSS SECTION
N64-14916 06-23

THEORY OF SHIP MOTIONS - FORWARD SPEED AND CROSS-COUPLING IN ABSENCE OF NEGATIVE DAMPING
TRG-126-FR-A N64-15761 07-23

RESONANT FREQUENCIES AND DAMPING RATIO FOR COMPARTMENTED CYLINDRICAL TANKS
NASA-CR-55947 N64-17674 09-11

ADJUSTABLE TIP WEIGHTS ON MAIN ROTOR BLADES FOR IMPROVEMENT OF HELICOPTER STABILITY THROUGH INCREASED DAMPING
HTC-AD-63-16 N64-17801 09-04

GRAPHIC METHOD TO DETERMINE RESPONSIVE DISPLACEMENT OF TWO-DEGREE-OF-FREEDOM DAMPED LINEAR SPRING-MASS SYSTEM MOUNTED ON SHOCK MACHINE
N64-18550 11-23

PEAK RESPONSE AND NUMBER OF CYCLES OF SINGLE-DEGREE-OF-FREEDOM SYSTEM PLOTTED FOR SEVERAL DAMPING CONDITIONS - VIBRATION TESTING
N64-18561 11-33

STRUCTURAL DAMPING OF OSCILLATIONS OF THIN WALLED SHELLS FOR HOUSING COMPONENTS OF GAS TURBINE ENGINE
FTD-MT-63-131 N64-18680 11-34

BEHAVIOR OF SECOND ORDER DYNAMIC SYSTEM WITHOUT DAMPING UNDER INFLUENCE OF RANDOM PROCESSES
FTD-MT-63-75/162 N64-18760 11-23

DAMPING OF QUANTIZED LONGITUDINAL PLASMA OSCILLATIONS
NASA-CR-53875 N64-19789 12-24

DAMPING MEASUREMENTS USING SELF-ADAPTIVE SYSTEM
FTD-TT-64-41/162 N64-21665 15-09

STRUCTURAL DAMPING OF PERMANENT JOINTS
FTD-TT-63-755/162 N64-25443 17-23

WIND TUNNEL MEASUREMENTS OF ROLL DAMPING MOMENT COEFFICIENT OF FINNED BODY AT SUBSONIC AND SUPERSONIC SPEEDS
NAVORD-6652 N64-25957 18-03

DAMPING CONSTANTS OF ONE- TO THREE-DIMENSIONAL VIBRATING SYSTEMS
DTMB-1770 N64-26241 18-20

TORSION DAMPING CAPACITY OF THIN WIRE AND USE IN DAMPING LIBRATION OF GRAVITY GRADIENT SATELLITE
CM-1039 N64-26624 18-23

EXPONENTIAL DAMPING OF LARGE TRANSVERSE MOMENTA OF PARTICLES PRODUCED IN HIGH ENERGY COLLISION
TH-58 N64-27219 19-23

MICROSTRAIN AND LOW FREQUENCY HYSTERETIC DISLOCATION DAMPING IN COPPER SINGLE CRYSTALS
NASA-CR-58586 N64-28999 20-25

NATURAL DAMPING OF NUTATIONAL OSCILLATIONS OF FREE GYROSCOPE N64-29144 21-15

MAGNETIC AND ELECTRIC FORCES FOR ROTATING SHAFT SUSPENSION - DAMPING
EMI-3421-111-64U N64-30122 21-17

DAMPING AND POLARIZATION OF PLANE MAGNETOHYDRODYNAMIC WAVES
ARL-63-195 N64-31272 22-24

EFFECT OF ALUMINUM OR GLASS FLAKE ADDITION TO SONIC FATIGUE DAMPING COMPOUNDS
LB-31046, SUPPL. 2 N64-32609 23-19

DAMPING CONSTANTS FOR DRY FRICTION-VISCOUS DAMPED SINGLE DEGREE OF FREEDOM SYSTEM
AD-446028 N64-33375 24-23

FLOW OF SUPERFLUID HELIUM - DAMPING OF SOLIDS OSCILLATING IN VISCOUS FLUID
QPR-6 N64-33660 24-11

DAMPING FACTOR
SMALL-AMPLITUDE FORCED OSCILLATION TECHNIQUE FOR DETERMINING DAMPING AND OSCILLATORY STABILITY IN ROLL, PITCH, AND YAW IN FREE FLIGHT
N64-17016 09-30

MODAL PATTERNS, MODAL FREQUENCIES, AND DAMPING FACTORS OF LIGHTLY DAMPED STRUCTURES DETERMINED BY COMPONENT ANALYZER N64-18556 11-33

DATA ACQUISITION
AIR TRAFFIC CONTROL - ERROR DISTRIBUTION AND DATA ACQUISITION FOR NAVIGATION SYSTEMS
N64-11405 02-22

RADAR SIGNATURE AND DATA ACQUISITION FOR AN/CPN-4 RADAR SYSTEM
RADC-TDR-63-517 N64-15737 07-08

IONOSPHERIC DATA FROM WOOMERA, SOUTH AUSTRALIA
CPD-1963/6/W/ N64-15983 07-12

NEW CONTROL AND DATA ACQUISITION INSTRUMENTATION FOR VESTIBULAR RESEARCH IN CENTRIFUGE-SLOW ROTATION ROOM FACILITY
NASA-CR-53341 N64-17788 09-10

PRECISION TRACKING AND DATA ACQUISITION FROM SPACE PROBES BY DEEP SPACE INSTRUMENTATION FACILITY /DSIF/
NASA-CR-53833 N64-19594 12-08

DATA ACQUISITION AND ANALYSIS OF WAVE INDUCED ACCELERATIONS ON DRY CARGO OCEAN VESSELS
SSC-159 N64-19734 12-10

OPERATION AND PERFORMANCE OF METEOROLOGICAL INSTRUMENT DATA ACQUISITION SYSTEM
REPT.-4-10 N64-21434 14-21

COLLECTION OF DATA FOR INTERNATIONAL GEOPHYSICAL YEAR DURING PERIOD 1 JAN - 30 JUN 1963
IGY GEN. REPT.-20 N64-21756 15-12

DATA ACQUISITION & TRACKING ANALYSIS OF X-20 AIRCRAFT COMMUNICATIONS & TRACKING SUBSYSTEM
CR-64-408-28-1 N64-21985 15-08

DARE II DATA ACQUISITION AND PROCESSING SYSTEM WITH MULTICHANNEL ANALOG-TO-DIGITAL CONVERTER
NOLTR-63-281 N64-22892 16-10

REQUIREMENTS FOR ACCURACY IN OBTAINING DATA FROM METEOROLOGICAL SATELLITES
NASA-TT-F-8816 N64-22934 16-21

TRACK-VEHICLE MISSILE SYSTEM DYNAMIC ENVIRONMENT DATA ACQUISITION AND APPLICATION
N64-23155 16-10

OPTIMUM PERFORMANCE OF X-Y ANTENNA MOUNT FOR SATELLITE TRACKING AND DATA ACQUISITION
NASA-TN-D-1697 N64-23341 16-09

POSITION DATA ACQUISITION TECHNIQUES FOR OVER-OCEAN AIR TRAFFIC CONTROL
REPT.-5088-12-F N64-25084 17-22

RECOVERY OF CONTINUOUS SIGNAL FROM RECEIVED DISCRETE DATA N64-25733 17-08

DEEP SPACE INSTRUMENTATION FACILITY - PRECISION TRACKING AND COMMUNICATIONS SYSTEM CAPABLE OF PROVIDING COMMAND, CONTROL, AND TRACKING DATA
NASA-CR-56666 N64-25801 17-30

DATA ACQUISITION FROM INFRARED SPECTROMETER SYSTEM FOR QUALITATIVE ANALYSIS N64-27132 19-07

DATA ACQUISITION SYSTEMS FOR SPACE FLIGHTS
REPT.-00.-487 N64-27222 19-06

SATELLITE TRACKING AND DATA ACQUISITION NETWORK /STADAN/ FACILITIES
NASA-TM-X-55026 N64-27258 19-08

TURBULENCE DATA ACQUISITION AND EFFECT OF TURBULENCE ON AIRCRAFT
NASA-CR-53381 N64-27398 19-21

MINIATURIZED TELEMETERING PACKAGE FOR DATA ACQUISITION AT HIGH SPEED WATER ENTRY
GD/C-64-108 N64-28455 20-08

TRACKING AND DATA ACQUISITION FOR RANGER MISSIONS ONE THROUGH FIVE
NASA-CR-58537 N64-28759 20-10

SUMMARY REPORT TO CONGRESS ON NASA PROGRAMS - DATA ACQUISITION, MANNED SPACE FLIGHT, NUCLEAR POWER & PROPULSION, SATELLITE APPLICATIONS, TRACKING, AND INTERNATIONAL COOPERATION N64-29539 21-01

AUTOMATIC DATA ACQUISITION SYSTEM TO MINIMIZE DATA REDUCTION OF BIOMEDICAL TESTS
AMRL-TDR-64-50 N64-29940 21-15

TRANSISTORIZED INSTRUMENTATION SYSTEM FOR ACOUSTICAL DATA ACQUISITION
NASA-TN-D-2485 N64-30611 22-15

SEARCH FREQUENCY, DATA INPUT, DOCUMENT ACQUISITION, AND LINK-ROLE INDEXING OF MECHANICAL PROPERTIES DATA CENTER
ML-TDR-64-235 N64-31896 23-10

DATA ANALYSIS
PHASE SHIFT VALUES FROM POLARIZATION AND ELASTIC SCATTERING DATA ANALYSIS N64-10303 01-23

REPRESENTATION OF ALTERNATING-CURRENT PROSPECTING DATA AS APPARENT SPECIFIC RESISTANCE - GEOLOGICAL SURVEY N64-11493 03-23

INFORMATION THEORY - TECHNIQUE FOR ANALYSIS OF SEMANTIC AMBIGUITIES
EUR-193.F N64-11651 03-01

CALIBRATION AND ANALYSIS OF RECORDED SHOCK TUNNEL DATA FROM PIEZOELECTRIC PRESSURE GAUGES
RTD-TDR-63-3073 N64-13308 04-15

INTERPRETATION OF DATA OBSERVED FROM SATELLITE WAKES IN UPPER ATMOSPHERE N64-15281 07-32

ADAPTIVE DATA SAMPLING SYSTEM N64-16164 08-08

SYNOPTIC ANALYSIS OF TIROS III RADIATION MEASUREMENTS
AFCRL-64-53 N64-17284 09-21

ANALYSIS OF ATMOSPHERIC STRUCTURE DATA - COMPUTATION OF ANGULAR DISTANCE FROM SUBSOLAR POINT
GCA-TR-64-1-A N64-18372 10-12

DATA ANALYSIS OF SPECTROGRAM FROM MASS SPECTROMETER
RTD-TDR-63-4128 N64-21086 14-07

OBJECTIVE ANALYSIS OF ATMOSPHERIC DATA IN WEATHER

FORECASTING N64-24467 17-21

DATA ANALYSIS FROM TIROS III SOLAR REFLECTANCE CHANNELS - ALBEDO
SR-3 N64-25228 17-12

COMPARISON OF INERTIAL GUIDANCE DATA WITH RANGE TRACKING DATA N64-29106 21-08

DATA HANDLING SYSTEM
CF HANDLING
HANDLING OPERATIONS OF SATELLITE TRACKING DATA BY DEEP SPACE INSTRUMENTATION FACILITY
NASA-CR-53065 N64-15792 07-08

DATA HANDLING SYSTEMS RESEARCH - DIGITAL COMPUTER, COMPUTER COMPONENT, PSYCHOLOGY, AND CONTROL THEORY
ESD-TDR-64-31 N64-19108 11-20

DIGITAL DATA HANDLING METHODS FOR FEEDBACK CONTROL SYSTEMS
NASA-CR-53868 N64-19796 12-06

SERIES EXPANSION METHODS IN THRESHOLD DETECTOR ACTIVATION DATA HANDLING
EUR-588.E N64-21209 14-23

AUTOMATIC DATA HANDLING SYSTEM FOR SIMULATED SPACE ENVIRONMENTAL TEST
NASA-TN-D-2322 N64-23901 16-30

AUTOMATIC DATA HANDLING SYSTEM ANALYSIS TECHNIQUE FOR DESIGN AND CONTROL OF DATA SYSTEMS - AUTOSATE
AD-430136 N64-26867 18-20

SINGLE-AXIS LINEAR ACCELEROMETER, NAVIGATION AND GUIDANCE PROBLEMS, AND DATA HANDLING
NASA-CR-58332 N64-28068 20-22

HIGH CAPACITY DIGITAL DATA HANDLING SYSTEM FOR USE WITH COUNTER HODOSCOPES AND DIGITIZED SPARK CHAMBERS
BNL-852/T-338/ N64-28692 20-20

FILING OF MOLECULAR ABSORPTION SPECTRA DATA IN INFRARED REGION - DATA HANDLING SYSTEMS N64-29065 21-23

INSTRUCTION MANUAL FOR PROGRAMMER ORIENTED GENERALIZED OPERATOR /POGO/ DATA HANDLING SYSTEM FOR IBM 7070 COMPUTER
IS-893 N64-30757 22-32

METEOROLOGICAL DATA ACQUISITION AND PROCESSING SYSTEM FOR QUANTITATIVE DIFFUSION PREDICTION AS MISSILE RANGE SAFETY TOOL
AFCRL-63-791, VOL. II N64-31657 23-21

INFORMATION STORAGE AND RETRIEVAL SYSTEM FOR PLASTICS DATA
I-82104-1 N64-32064 23-19

DATA PROCESSING
SA INFORMATION
CF COMPUTER
CF COMPUTER PROGRAM
DIGITAL SOLAR ASPECT SENSING AND ON-BOARD DATA PROCESSING FOR SPIN STABILIZED SATELLITE ATTITUDE DETERMINATION
NASA-TM-X-50996 N64-10091 01-30

NEURON TRANSMISSION IN HUMAN BRAIN AND CYBERNETIC DESIGN OF PERCEPTRON - DATA PROCESSING ELECTRONIC CEREBRAL MACHINE - BOOK REVIEW
JPRS-21805 N64-10380 01-01

APPLICATION OF CYBERNETICS TO DATA PROCESSING IN TEACHING RESEARCH
JPRS-18549 N64-10772 02-01

BIBLIOGRAPHY OF MACHINE LANGUAGES & PROCESSING OF SCIENTIFIC AND TECHNICAL DATA
JPRS-21764 N64-11265 02-20

BEHAVIORAL TESTING IN SIMULATED SPACE CABIN DURING SEVEN-DAY CONFINEMENT - DATA PROCESSING
NASA-TN-D-1973 N64-11548 03-14

INFORMATION PROCESSING OF AERIAL PHOTOGRAPHIC DATA
RADC-TDR-63-341 N64-11756 03-23

PULSE CODE MODULATION TELEMETRY DATA PROCESSING FOR ECCENTRIC ORBITING GEOPHYSICAL OBSERVATORY
NASA-TM-X-51259 N64-11812 03-08

ELECTRONIC APPARATUS FOR ERROR CODING SYSTEM AND FAULT DETECTING SEARCH SYSTEM
JPRS-18679 N64-11833 03-20

ARITHMETIC CODING SYSTEM WITH DIGITAL COMPUTER FEEDBACK SYSTEM FOR CORRECTING INDIVIDUAL ERRORS N64-11834 03-20

FILTERING, ENCODING SYSTEM, TELEMETRY, AND DECODING OF SATELLITE MEASUREMENTS - DATA PROCESSING
NASA-CR-55017 N64-12026 03-08

MAINTENANCE WORK CONTROL PROGRAM USING DATA PROCESSING TECHNIQUES
Y-1371 N64-12124 03-20

DATA PROCESSING OF DELAY INFORMATION ON AIRLINES AND AIRPORTS N64-12385 03-10

VISUAL SIGNALS FOR QUANTITATIVE EXAMINATION OF ATTENTION, DISCRIMINATION, PERCEPTION - DATA PROCESSING N64-12505 04-16

INFORMATION PROCESSING OF PHYSIOLOGICAL DATA FOR FUNCTIONS OF ENTIRE ORGANISM - CYBERNETICS N64-12518 04-16

ANALYSIS OF INFORMATION PROCESSING MECHANISM IN BRAIN - CYBERNETICS N64-12519 04-16

VISUAL INFORMATION PROCESSING IN RETINA BY OPTIMAL ENCODING - CYBERNETICS N64-12523 04-16

LINEAR DATA-PROCESSING ANTENNA ARRAYS USING WIDE-BAND ELEMENTS AND MATCHED FILTER
RADC-TDR-63-437 N64-12589 04-08

MACHINE TRANSLATION AND INFORMATION PROCESSING
JPRS-22415 N64-12698 04-01

CHEMICAL CODE FOR MACHINE SEARCHING OF MOLECULAR SPECTROSCOPIC INFORMATION N64-12699 04-07

THEORY OF TRANSLATION ASSOCIATED WITH AUTOMATIC DATA PROCESSING N64-12700 04-01

COMPUTER PROGRAM FOR X-RAY RADIAL SCAN DATA PROCESSING
ONR-TR-33A N64-12992 04-20

OPTICAL PREPROCESSOR WITH INPUT FROM TELEVISION CAMERA APPLICABLE TO MINOS II LEARNING MACHINE FOR GRAPHICAL DATA PROCESSING
REPT.-13 N64-13614 05-23

DIGITAL SYSTEM FOR MEASURING SPACE-TIME & STATISTICAL DISTRIBUTIONS OF VALUES & DATA PROCESSING
JPRS-22930 N64-14522 06-20

PROCESSING DATA ON DISTRIBUTION & EXCRETION OF INHALED FISSION PRODUCTS WITH AUTOMATIC READOUT COUNTING SYSTEM
LF-13 N64-14750 06-16

ARTIFICIAL SATELLITE ORBIT AND MOTION PREDICTION FROM PROCESSING OF OPTICAL AND RADIOTECHNICAL DATA
MH-TRANS-369 N64-14751 06-29

COMPUTER PROGRAMS FOR PROCESSING SIGNALS RECEIVED IN RADAR ASTRONOMY
REPT.-646-4 N64-14837 06-20

AUTOMATED INFORMATION SYSTEMS IN PLANNING, CONTROL, AND COMMAND N64-15170 07-20

DATA FILTERING USED TO IMPROVE FREQUENCY RESPONSE N64-15319 07-20

DIGITAL FILTERING TECHNIQUES APPLIED TO DATA PROCESSING N64-15320 07-09

HUMAN INFORMATION PROCESSING UNDER TASK STRESS
ESD-TDR-63-657 N64-16088 07-14

LANGUAGE AND INFORMATION PROCESSING, INFORMATION RETRIEVAL STUDIES AND LINGUISTICS
TM-530/007/00 N64-16257 08-20

COMPUTER FACILITY AND TRAINING PROGRAM AT INTERNATIONAL METEOROLOGICAL CENTER - PROGRAM FOR SHIP WEATHER REPORTS AND RADIOSONDE PROCESSING
N64-16304 08-20

ERROR PROTECTION IN INFORMATION ENCODING
AMRL-TDR-63-83 N64-16433 08-20

PROCESSING OF DATA OBTAINED FROM VISUAL AND PHOTOGRAPHIC OBSERVATIONS OF SATELLITES
N64-16460 08-32

DATA PROCESSING USING NIMBUS SATELLITE INFRARED RADIOMETER
NASA-CR-55901 N64-16705 08-21

INFORMATION STORAGE, RETRIEVAL, AND DISSEMINATION FOR NASA PROGRAM - DATA PROCESSING
N64-16729 08-01

BIBLIOGRAPHY OF USSR LITERATURE ON RADIO ASTRONOMY ANTENNAS AND RADIO ASTRONOMY DATA PROCESSING
AID-B-64-11 N64-16779 08-05

LINGUISTICS, MACHINE LANGUAGE, AND LANGUAGE PROCESSING
ESD-TDR-63-620 N64-16825 08-20

SEARCHING TECHNIQUE FOR AUTOMATIC STORAGE AND RETRIEVAL OF LANGUAGE INFORMATION
CACL-3 N64-18196 10-20

TIROS WEATHER SATELLITE DATA PROCESSING - METEOROLOGY
GD/A-DBB64-002 N64-18220 10-21

COMPUTER SPECIFICATIONS FOR USE IN ANTENNA CONTROL AND DATA PROCESSING AT SATELLITE COMMUNICATIONS SYSTEM GROUND STATIONS N64-18246 10-20

FEASIBILITY OF TRACK-WHILE-SCAN NAVIGATION SYSTEM AND FORMAT FOR COMPUTER DATA PROCESSING
NASA-CR-53515 N64-19256 11-20

DATA PROCESSING OF SOLAR RADIATION SPECTRAL RESPONSE DATA N64-19263 11-15

NABUR - NAREC ASSEMBLER FOR BURROUGHS D825 MODULAR DATA PROCESSING COMPUTER
NRL-5974 N64-20356 13-20

STRATEGIC AIR COMMAND DATA PROCESSING AND CONTROL SYSTEM TEST PLAN
ESD-TDR-64-197 N64-21216 14-10

COMPUTER DESIGN AND PROGRAMMING FOR DATA PROCESSING LINK BETWEEN TRACKING RADAR PROGRAMMER AND CONTROL CENTER
RADC-TDR-63-494 N64-21232 14-08

AUTOSATE - AUTOMATIC DATA SYSTEMS ANALYSIS TECHNIQUE
P-2646-1 N64-21479 14-20

DATA PROCESSING AND COMMUNICATION SUBSYSTEM RESEARCH ON MANNED ORBITAL RESEARCH LABORATORY
WDL-TR-1209 N64-21511 15-32

INFORMATION PROCESSING IN COMPLEX TASK UNDER SPEED STRESS
REPT.-1129 N64-22557 15-14

UNIVERSAL DATA PROCESSING SYSTEM FOR MARK I AEROSPACE SYSTEM ENVIRONMENTAL CHAMBER
AEDC-TDR-64-123 N64-22699 15-20

COMPUTER AUTOMATED INTERFERENCE PREDICTION DATA PROCESSING SYSTEM N64-22834 16-09

AUTOMATIC TERRAIN INFORMATION PROCESSING SYSTEM
N64-22836 16-20

DARE II DATA ACQUISITION AND PROCESSING SYSTEM WITH MULTICHANNEL ANALOG-TO-DIGITAL CONVERTER
NOLTR-63-281 N64-22892 16-10

EXPLORER XVII REAL TIME PCM TELEMETRY DATA PROCESSING AND DISPLAY TEST STAND
NASA-TN-D-2318 N64-23026 16-22

COMPUTER PROGRAMMING FOR WEATHER DATA PROCESSING
AD-437483 N64-23905 18-21

DATA HANDLING AND PROCESSING FOR METEOROLOGICAL OBSERVATIONS N64-24415 17-21

AUTOMATIC PROCESSING OF METEOROLOGICAL DATA
N64-24463 17-21

MULTIPLE PARAMETER OBJECT RECOGNITION - DATA PROCESSING N64-24688 17-20

EXPERIMENTAL INVESTIGATION OF GRAPHICAL DATA PROCESSING
R-15 N64-24875 17-20

TELEMETRY DIGITAL OUTPUT TERMINAL FOR DATA PROCESSING, PREPARATORY TO REAL TIME ANALYSIS
ERDA-117 N64-25208 17-08

ASYMPTOTIC PERFORMANCE CHARACTERISTICS FOR OPTIMUM BINARY DATA-HANDLING SYSTEMS
NASA-CR-56784 N64-25494 17-09

ALTIMETER DISPLAY SYSTEM - FLIGHT CONTROL INFORMATION REQUIREMENTS
ASD-TDR-63-621, PT. 1 N64-26191 18-15

DATA PROCESSING OF INTERPLANETARY ERROR PROPAGATION INFORMATION
WDL-TR-2185, ADDEND. 1 N64-26285 18-20

MECHANISMS FOR WRITING ABSTRACTS AND TECHNICAL REPORTS
NASA-SP-7010 N64-26421 18-01

MAGNETIC DRUM RECORDING AND READ CHANNEL DENSITY EVALUATION
FTD-TT-64-235/1&4 N64-26721 18-08

DISCRETE ACTIVITY INDICATOR SYSTEM DESIGNED TO PREPROCESS INPUT SIGNALS - SCANNING DEVICE
NASA-TM-X-53045 N64-27239 19-09

TIROS IV RADIOMETER PRINCIPLES AND CALIBRATION AND RADIATION DATA PROCESSING
NASA-TM-X-51921 N64-27404 19-12

LINGUISTIC AND STATISTICAL STUDIES OF INFORMATION RETRIEVAL TECHNIQUES - DATA PROCESSING
RADC-TDR-64-190 N64-27442 19-09

DATA PROCESSING OF METEOROLOGICAL ROCKET MEASUREMENTS OF WIND, TEMPERATURE, AND DENSITY IN STRATOSPHERE
ERDA-152 N64-27564 19-21

COMPUTER PROGRAMS FOR PROCESSING CRYSTAL STRUCTURE DATA
AROD-3083-9 N64-27568 19-20

TIME OPTIMAL CONTROL OF NONLINEAR SAMPLED DATA SYSTEMS
R-210 N64-28055 20-20

MISSILE TRAJECTORY MEASUREMENT SYSTEM - OPERATIONAL ERRORS, AND DATA PROCESSING N64-29111 21-08

GLOTRAC DATA ADJUSTMENT PROGRAMS
N64-29115 21-08

PROCESS ON DEMAND COMPUTER SYSTEM
N64-29117 21-08

EDITING TRACKING DATA FOR IBM 7094 COMPUTER PROGRAM FOR ORBIT DETERMINATION
NASA-CR-58488 N64-29203 21-08

QUICK LOOK ANALYSIS PROGRAM /QLAP/ REQUIREMENTS FOR PROCESSING PULSE CODE MODULATION /PCM/ DATA FOR GEMINI VEHICLE PERFORMANCE CALCULATIONS

TDR-469/A5126-10/-1 N64-29445 21-20

DATA PROCESSING USE IN SUPPLY, MAINTENANCE, AND OPERATIONS MANAGEMENT
RM-3924-PR N64-30529 22-01

SERIAL AND PARALLEL FILE STRUCTURES WITH MAGNETIC TAPE AND DISK STORAGE FOR COMMAND AND CONTROL DATA PROCESSING SYSTEMS
ESD-TDR-64-519 N64-30970 22-20

DEVELOPMENT & MANAGEMENT OF COMPUTER CENTERED DATA BASE - SYMPOSIUM N64-31033 22-20

ESTIMATION OF PERFORMANCE OF DIGITAL COMPUTER SYSTEMS APPLIED TO DATA PROCESSING
ESD-TDR-64-194 N64-31109 22-20

PHYSIOLOGICAL STUDIES - COMPUTER PROCESSING OF DATA, BIOINSTRUMENTATION, EFFECTS OF HYPOXIA, AND ELECTROPHYSIOLOGY
JPRS-26444 N64-31536 23-16

INPUT DEVICE FOR CONVERSION OF PHYSIOLOGICAL DATA RECORDED ON MAGNETIC TAPE INTO BINARY CODE FOR COMPUTER PROCESSING N64-31537 23-16

UNITS FOR DATA PROCESSING OF ATMOSPHERIC ELECTRIC MEASUREMENTS N64-31768 23-21

RATE-ANALOG DATA PROCESSING METHOD FOR MONITORING REPETITIVE PHYSIOLOGICAL VARIABLES DURING MANNED SPACE FLIGHT
AMRL-TDR-64-10 N64-32480 23-16

APPLICATION OF SOLOMON PARALLEL NETWORK COMPUTER SYSTEM TO DATA PROCESSING PROBLEM AREAS
REPT.-406A2 N64-32620 23-10

INFRARED SPECTRAL DISCRIMINATION
REPT.-5698-1-T N64-32673 23-23

INSTRUMENTATION - SENSORS, INFORMATION PROCESSING, AND CONTROL SYSTEMS N64-32775 24-15

INSTRUMENT CALIBRATION, DATA PROCESSING, AND PROGRAMMING FOR SATELLITE RADIATION MEASUREMENT
NASA-CR-59250 N64-33292 24-15

DATA ACQUISITION, PROCESSING, AND UTILIZATION FOR OPTICAL SATELLITE TRACKING PROGRAM
NASA-CR-56245 N64-33778 24-12

METEOROLOGICAL SATELLITE DATA SYSTEMS
NASA-TM-X-55093 N64-33830 24-32

WIND CIRCULATION PREDICTION AND DATA PROCESSING SYSTEM FOR CHEMICAL-BIOLOGICAL WARFARE
GCA-TR-64-3-G N64-33842 24-12

DATA PROCESSOR
COMPUTER PROGRAM FOR SIMULATION OF ONBOARD DATA PROCESSOR FOR TRACK-WHILE-SCAN NAVIGATION CONCEPT
NASA-CR-53513 N64-20006 13-20

SCHEDULING INDEPENDENT TASKS ON ONE OR MORE DATA PROCESSORS FOR OPTIMUM COST
ITR-2 N64-20403 13-20

GRAPHICAL DATA PROCESSING - MODIFICATIONS TO 1000 IMAGE PREPROCESSOR TO IMPROVE SIGNAL-TO-NOISE RATIO AND INTEGRATION OF TRANSMITTED LIGHT
REPT.-14 N64-21309 14-23

CRYOGENIC ASSOCIATIVE PROCESSOR WITH 12-BIT WORD STORAGE
RADC-TDR-64-26 N64-25230 17-17

FLOW DIAGRAM FOR DATA PROCESSOR - COMPUTER DESIGN
AFCRL-64-454/1/ N64-26944 18-20

EGO BALLOON EXPERIMENT DATA PROCESSOR
NASA-TM-X-55068 N64-29188 21-08

GLOTTIS AND VOCAL CORD MEASUREMENTS BY DATA REDUCTION FROM MOTION PICTURE - DATA PROCESSOR
AFCRL-64-661 N64-31802 23-15

COMPUTER SIMULATION OF ELECTRONIC DATA PROCESSOR
MPR-12 N64-32399 23-10

DATA READOUT SYSTEM
EFFECT OF DRIFT FROM NULL VOLTAGE ON USEFULNESS OF HALL GENERATORS IN FLUX RESPONSIVE MAGNETIC READ-OUT HEADS
AD-434401 N64-18130 10-15

PHOTOTRANSISTOR MOSAIC DEVELOPMENT AND EQUIPMENT FOR READOUT OF MOSAIC OUTPUT SIGNALS
NASA-CR-53579 N64-18444 10-23

REFERENCE SYSTEM FOR EVALUATION AND CALIBRATION OF MICRODISPLACEMENT READOUT SYSTEM
HW-80271 N64-25782 17-06

DATA CONVERTER SYSTEM TO DECODE DOUBLE-SPEED SYNCHRO INFORMATION INTO DECIMAL READOUT N64-31495 23-09

DATA RECORDING
ROLE OF SIZE AND RESOLUTION OF DESIRED MAP IN RECORDING REQUIREMENT OF SYNTHETIC ARRAY DATA
SSD-TDR-63-224 N64-12271 03-15

ANALOG-DIGITAL DATA RECORDING EQUIPMENT FOR INVESTIGATING JET ENGINE PERFORMANCE N64-13924 05-20

INTERFERENCE SPECTRUM ANALYZER WITH AUTOMATIC FREQUENCY SCANNING AND DATA RECORDING N64-22844 16-09

RADAR CROSS SECTION DATA GENERATION AND RECORDING N64-24713 17-08

INSTRUMENTATION OF TRACKING RADAR FOR DIRECT RECORDING OF RADAR CROSS SECTION N64-24728 17-08

FLIGHT MISSION DATA RECORDING IN BINARY CODE ON MAGNETIC TAPE OR PUNCHED PAPER TAPE N64-30536 22-16

DATA REDUCTION
SA DATA COMPRESSION
REDUCTION AND USE OF DATA OBTAINED BY TIROS METEOROLOGICAL SATELLITES
WMO-131-TP-58 N64-11646 03-32

DATA REDUCTION METHOD FOR CORRECTING FINITE LOADING TIMES IN VISCOELASTIC STRESS & CREEP TESTS
P-63-6 N64-12994 04-33

NEW DATA REDUCTION METHODS TO IMPROVE MISSILE TRACKING RANGE DATA
AD-429095 N64-15312 07-01

MISTRAM TRACKING SYSTEM - PRECISION MEASURING SUB-SYSTEM AND DATA REDUCTION N64-15315 07-08

ADVANCED RANGE INSTRUMENTATION SHIP EVALUATION AND DATA REDUCTION N64-15317 07-10

ANALOG AND DIGITAL DATA REDUCTION METHODS FOR ANALYTICAL STUDY OF VIBRATION DATA
NASA-CR-55576 N64-15529 07-20

DATA REDUCTION AND INTERPRETATION METHODS FOR HEAT TRANSFER DATA FROM REENTRY AND OTHER FLIGHT TESTS
NASA-CR-55580 N64-15535 07-30

EXPLORER VI AND PIONEER V DATA REDUCTION AND ANALYSIS
NASA-CR-55802 N64-17677 09-32

DATA REDUCTION BY COHERENT OPTICAL LIGHT SYSTEM WITH PHOTOGRAPHIC FILMS
REPT.-4594-40-R N64-18871 11-23

PRECISELY REDUCED OBSERVATIONS OF SATELLITES
NASA-CR-53783 N64-19350 12-32

DATA REDUCTION OF STRESS AND BENDING MOMENTS ON SHIP AT SEA - MATHEMATICAL MODEL
PB-181557 N64-19408 12-33

ELECTRONIC DIGITAL COMPUTER USED IN REDUCTION OF ANTENNA PATTERN DATA N64-22822 16-09

MOVING-ARC DATA SMOOTHING FOR FLIGHT ANALYSIS
AIAA PAPER-64-324 N64-24887 17-22

MAXIMUM AMPLITUDE OF NUCLEAR MAGNETIC RESONANCE SIGNAL IN FLOW-THROUGH PICKUP
FTD-TT-64-297/1&2 N64-25449 17-24

THEORY AND DATA REDUCTION METHOD FOR PILOT-STATIC TECHNIQUE OF UPPER ATMOSPHERE MEASUREMENT
NASA-CR-56411 N64-25771 17-12

COMPARISON OF METHODS FOR CONVERSION OF WAVE INTERACTION DATA TO ELECTRON DENSITY PROFILE
SR-220 N64-25779 17-23

REDUCTION OF DATA FROM MARINER II MAGNETOMETER AND DESIGN OF ELECTRONIC PULSE DETECTION CIRCUITS
NASA-CR-58043 N64-26364 18-29

DATA SCATTER FROM STATIC FIRING TESTS OF 9KS-11000 ROCKET ENGINE
CARDE-TN-1543/64 N64-26742 18-27

DATA REDUCTION AND MAPPING PROCEDURES UTILIZING TIROS III FIVE-CHANNEL RADIOMETER DATA
NASA-TM-X-55047 N64-28088 20-08

CONSTRUCTION AND CALIBRATION OF SCANNING AND MEASURING PROJECTOR - DATA REDUCTION SYSTEM TO DIGITIZE COORDINATES OF BUBBLE CHAMBER PARTICLE TRACKS
UCRL-11372 N64-28779 20-15

OPERATION AND MAINTENANCE MANUAL FOR UNIVERSAL PULSE FREQUENCY MODULATION /PFM/ REAL TIME DATA REDUCTION SYSTEM
NASA-TM-X-55066 N64-29181 21-20

OPERATION & MAINTENANCE MANUAL FOR UNIVERSAL PULSE FREQUENCY MODULATION, REAL TIME DATA REDUCTION SYSTEM
NASA-TM-X-55067 N64-29184 21-20

AUTOMATIC DATA ACQUISITION SYSTEM TO MINIMIZE DATA REDUCTION OF BIOMEDICAL TESTS
AMRL-TDR-64-50 N64-29940 21-15

FIREFLY PROJECT - PHOTOGRAPHIC AND PHOTOMETRIC OBSERVATION OF WIND VELOCITY IN UPPER ATMOSPHERE FROM CHEMICAL PAYLOAD - DATA REDUCTION
N64-31379 23-12

SPECIFICATIONS FOR AVIATION WEATHER SYSTEM - METEOROLOGICAL STATION, RADAR DATA REDUCTION EQUIPMENT, AND CIRCUIT CONTROL FOR COMPUTER
AD-420177 N64-31696 23-21

FORTRAN COMPUTER PROGRAM FOR DATA REDUCTION OF PHOTOGRAPHS OF TWO-PHASE FLOW PHENOMENA
WAPD-TM-462 N64-33474 24-20

ANALOG-TO-DIGITAL CONVERTER-PULSE HEIGHT ANALYZER FOR DATA REDUCTION FROM BALLOON MEASUREMENTS
NASA-TM-X-55077 N64-33559 24-09

CORRELATION FUNCTIONS AND POWER SPECTRAL DENSITY FUNCTIONS - DATA REDUCTION
NADC-AC-6408 N64-33755 24-23

DATA REDUCTION OF SOLAR MAGNETIC FIELD SURVEY - CORRELATION OF CONFIGURATIONS AND CHANGES WITH CHROMOSPHERIC PHENOMENA
AD-444351 N64-33828 24-28

DATA STORAGE
SA MAGNETIC TAPE
SA MEMORY STORAGE UNIT
SYSTEM FOR MAGNETIC TAPE STORAGE AND RETRIEVAL OF NUMERICAL DATA - SHLOG PROGRAM FOR PHILCO-2000
WAPD-TM-370 N64-10990 02-20

PHOTOELECTRIC INFORMATION STORAGE - COMPONENTS FOR TAPE CAMERA STORAGE TUBE
RTD-TDR-63-4134 N64-12188 03-09

MACHINE RECORD CARDS FOR RECORDING MEDICAL HISTORY - DEVELOPMENT & USE IN ASTRONAUT SELECTION
N64-13466 05-16

MAGNETIC TAPE DATA STORAGE SYSTEM FOR ACCURATE OPERATION IN HIGH INTENSITY RADIATION
RTD-TDR-63-3104 N64-21118 14-08

MAGNETOACOUSTIC INFORMATION STORAGE SYSTEM
NASA-CR-45 N64-22015 15-08

PRESELECTOR DEVICE TO READ AND STORE DATA FROM TAPE TO AID FUNCTION OF SPARK CHAMBER READER
BNL-876/T-352/ N64-30232 22-15

SPECTRUM ANALYSIS OF PERIODIC SIGNALS USING DIGITAL FILTER STORAGE
AFCRL-64-336 N64-31064 22-09

DATA RETRIEVAL AND STORAGE OF MECHANICAL PROPERTY INFORMATION OF METALS AND REINFORCED PLASTICS
ASD-TDR-63-566, PT. I N64-32610 23-10

MACHINE STORAGE TECHNIQUE FOR TWO FLOATING POINT NUMBERS IN ONE MACHINE WORD
GAMD-4805 N64-32648 23-20

DATA TRANSMISSION
SA COMPUTER
SA REDUNDANCY ENCODING
CODING SYSTEM FOR COLOR INFORMATION TRANSMISSION IN RETINA - CYBERNETICS N64-12521 04-14

APPROXIMATE DIFFERENTIATION OF CONTINUOUS PULSE FREQUENCY DATA TRANSMISSION BY ELECTRONIC CIRCUIT
N64-13569 05-08

THRESHOLD DECODING OF CONVOLUTIONAL CODES UP TO 100 TRANSMITTED BITS
MIT-TR-410 N64-14111 05-20

MARINER II TRANSMISSION OF SCIENTIFIC AND ENGINEERING DATA DURING VENUS FLIGHT
NASA-CR-55369 N64-14267 06-32

ACCELERATION DATA TRANSMITTER - TUBE FILLED WITH SILVER NITRATE GRAVIOPOLARIZING SOLUTION
FTD-TT-63-658/1 N64-16384 08-15

COMPARISON OF CABLE AND MICROWAVE LINKS FOR DATA TRANSMISSION SYSTEMS
TOR-269/4110-03/-2 N64-16655 08-08

OPTICAL COMMUNICATION IN SPACE - DATA TRANSMISSION SYSTEMS
NASA-CR-53581 N64-18442 10-04

RAYLEIGH FADING AND NOISE BACKGROUND ASSOCIATED WITH PULSE & FREQUENCY SHIFT KEYED DATA TRANSMISSION SYSTEMS
CR-63-419-12 N64-19125 11-12

ERROR DETECTION AND CORRECTION IN DATA TRANSMISSION SYSTEM
AFCRL-64-121 N64-19208 11-08

HETERODYNE DEEP SPACE OPTICAL COMMUNICATION SYSTEM
NASA-CR-53636 N64-19990 12-08

DATA TRANSMISSION DELAY IN COMMUNICATION NETWORKS
AD-427258 N64-20528 13-08

ELECTRICAL SYNCHRONIZER - DEVICE FOR MULTICHANNEL TRANSMISSION OF INDEPENDENT TELEGRAPH SIGNALS
QPR-3 N64-20542 13-09

STANDARD DATA TRANSMISSION FORMAT FOR TRANSFER OF TRAJECTORY DATA BETWEEN MISSILE RANGES
IRIG-102-63 N64-21123 14-08

DATA TRANSMISSION FROM MOON TO EARTH - SPACE TELEMETRY N64-23643 16-29

INFORMATION RETRIEVAL AND DISPERSION FOR INDUSTRY
NASA-CR-56225 N64-23998 16-01

RADAR CROSS SECTION DATA GENERATION AND RECORDING
N64-24713 17-08

DATA COMMUNICATIONS COMPUTER SYSTEM DESIGN
N64-24855 17-08

STATISTICAL CODING AND VISUAL FIDELITY APPROACHES TO TELEVISION BANDWIDTH REDUCTION PROBLEM
AFCRL-64-323 N64-24950 17-08

TRANSMISSION OF ENCODED INFORMATION IN DISCRETE COMMUNICATIONS SYSTEMS
JPRS-25674 N64-28018 20-08

DATA TRANSMISSION - INTERROGATION SYSTEMS AND RADIOTELEPHONY
JPRS-26269 N64-28447 20-08

LIGHTWEIGHT PORTABLE LOG PERIODIC ANTENNA ARRAY
ESD-TDR-64-35 N64-28824 20-08

ASYMPTOTIC ESTIMATES OF ERROR PROBABILITY FOR DATA TRANSMISSION THROUGH COMMUNICATION CHANNEL WITH SYMMETRIC MATRIX OF TRANSACTION PROBABILITIES
FTD-TT-63-543/1&2&4 N64-29025 21-08

BEYOND-LINE-OF-SIGHT TRANSMISSION USING AUTOMATIC BEAM-STEERING ARRAY TECHNIQUES
REPT.-2900-491-T N64-30588 22-08

ERROR STATISTICS ON DATA TRANSMISSION OVER TELEPHONE CIRCUITS WITH RANDOM LINE NOISE INTERFERENCE
AD-603461 N64-30883 22-08

HIGH ACCURACY SINGLE SPEED RESOLVERS & SYNCHROS - ACCURATE DATA TRANSMISSION N64-31505 23-17

CALIBRATION AND ANALYSIS OF ELECTRO-OPTICAL INSTRUMENTATION FOR RECORDING AND TRANSMISSION OF ROCKET AND SATELLITE BORNE SPECTRAL DATA
AFCRL-64-504 N64-31988 23-08

ERROR PROBABILITIES FOR UNCODED M-ARY TRANSMISSION OF D-ARY DATA
TR-63-6-8F N64-32079 23-08

INSTRUMENTATION - SENSORS, INFORMATION PROCESSING, AND CONTROL SYSTEMS N64-32775 24-15

DATA TRANSMISSION FROM AUTOMATIC MICROSCOPE TO DIGITAL SCANNER AND COMPUTER FOR BIOMEDICAL RESEARCH
NASA-CR-58872 N64-33042 24-15

DATA TRANSMISSION COMMUNICATION SYSTEM - ERROR CONTROL THROUGH CODING
RADC-TDR-64-149, VOL. I, N64-33537 24-08

DATA TRANSMISSION COMMUNICATIONS SYSTEM - RESIDUE CODES FOR ERROR CONTROL
RADC-TDR-64-149, VOL. IV N64-33540 24-08

ELEMENTARY MECHANICS OF FLEXIBLE MEMBRANES OF EXPANDABLE INFLATABLE STRUCTURES
SM-45750 N64-33733 24-33

ULTRA LONG-RANGE TELEMETRY - SIGNAL TRANSMISSION AND DETECTION, AND INFORMATION PROCESSING
AL-TDR-64-87, VOL. I N64-33790 24-08

DAYGLOW
PHOTOGRAPHIC INTERFEROMETRIC MEASUREMENT OF DAY AIRGLOW EMISSION OF ATOMIC OXYGEN
AFCRL-64-220 N64-16073 07-12

BLUE DAYGLOW EMISSION OF NITROGEN ION OBSERVED WITH PHOTOMETER
NASA-TN-D-2249 N64-18081 10-12

DAYGLOW EMISSION STUDY OF RADIATIVE TRANSFER PROCESS IN ATOMIC OXYGEN
NASA-CR-56361 N64-22458 15-28

NITRIC OXIDE DAYGLOW MEASUREMENT BY ULTRAVIOLET SPECTROMETER ABOARD AEROBEE ROCKET
JPL-TR-32-640 N64-31239 22-12

AURORAL OCCURRENCE FREQUENCY IN ZENITH FOR DAYLIGHT REGIONS N64-32718 24-12

RED LINE OF ATOMIC OXYGEN IN DAY AIRGLOW
NASA-TM-X-54705 N64-33210 24-12

DAZZLE
S FLASH BLINDNESS
S VISION

DAZZLE PROJECT
S RADAR TRACKING

DE LAVAL NOZZLE
LEAKAGE OF SUPERSONIC AIR FLOW INTO WATER THROUGH LAVAL NOZZLE N64-17178 09-02

DEAFNESS
CF AUDIOLOGY
CF HEARING LOSS
SENSORY AIDS FOR BLIND AND BLIND-DEAF PEOPLE N64-17886 10-15

DEATH
RESUSCITATION OF AN ORGANISM FROM CLINICAL DEATH
JPRS-20013 N64-10600 01-16

CELL DEATH RATE AND DEAD CELL CONTENT OF GROWING CULTURES OF ALGAE IN MINERAL MEDIA, AND MATHEMATICAL EXPLANATION
JPRS-19286 N64-11216 02-16

BLOOD SUBSTITUTION AND OXIDATION OF INTERMEDIATE METABOLIC PRODUCTS DURING RESUSCITATION AFTER CLINICAL DEATH N64-12768 04-16

DEBRIS
DEGREE OF FRACTIONATION AND RADIONUCLIDE PARTITION FOR NUCLEAR DEBRIS
USNRDL-TR-680 N64-12257 03-23

DEBYE TEMPERATURE
DEBYE CHARACTERISTIC TEMPERATURE OF SOLIDS
ASD-TDR-63-881 N64-12036 03-25

HEAT TRANSFER IN IONIZED GAS WITH DEBYE LENGTH EXCEEDING MEAN FREE PATH N64-14455 06-23

CAPTURE COEFFICIENT FOR GASES AT 77 DEG K AS FUNCTION OF MOLECULAR WEIGHT, HEAT CONDENSATION, & DEBYE TEMPERATURE - HYDROGEN BONDING EFFECT
AEDC-TDR-64-37 N64-20076 13-23

DECANE
OXIDATION OF N-DECANE WITH OXYGEN N64-11159 02-07

DECARBURIZATION
YIELD STRENGTH OF DECARBURIZED IRON
TR-4 N64-23648 16-18

ELECTROMAGNETIC METHOD OF NONDESTRUCTIVE TESTING OF DECARBURIZATION OF COMPONENTS - HARMONIC ANALYSIS
SA-TR-19-1508 N64-33719 24-17

DECAY
CF DEGRADATION
ALPHA DECAY OF PROTACTINIUM ISOTOPES
UCRL-11082 N64-14070 05-23

NUMERICAL INTEGRATION OF DIRECT INTERACTION EQUATIONS FOR DECAY OF ISOTROPIC TURBULENCE
RR-4 N64-14704 06-11

REENTRY OF SPACE VEHICLE FRAGMENTS DURING DECAY FROM CIRCULAR ORBIT
WRE-TN-36 N64-20554 13-30

PROPERTIES OF OMEGA MESON - DECAY MODE STUDIES
UCRL-10723 N64-21037 14-23

DYNAMICS OF VEHICLES - ORBITAL DECAY
FTD-TT-63-164/1&2&4 N64-22644 15-02

PREDICTION OF ORBIT DECAY OF LOFTI-2 SATELLITE
NRL-6049 N64-23606 16-22

DECAY OF ORBITS N64-25103 17-23

S-WAVE AMPLITUDES FOR NONLEPTONIC DECAYS OF HYPERONS
UR-875-32 N64-25549 17-23

DECAY OF VECTOR MESONS & KAONS TO YIELD PIONS AND

MASS DIFFERENCE OF TWO KAONS
UR-875-35 N64-25995 18-23

EVALUATION OF REDUCED GROUP DECAY CONSTANTS AND ABUNDANCES USED IN REACTOR NEUTRONIC KINETIC EQUATIONS BY LEAST-SQUARES TECHNIQUE - URANIUM-235 FAST FISSION GROUPS
LA-3082 N64-26766 18-23

TABULATION OF SATELLITES IN ORBIT AND DECAYED OBJECTS AS OF 3 MAY 1964
NASA-TM-X-51811 N64-27825 19-32

TABULATION OF SATELLITES IN ORBIT AND OF DECAYED OBJECTS AS OF 2 MARCH 1962
NASA-TM-X-51780 N64-27834 19-32

EXAMINATION OF DECAY CHARACTERISTICS OF STRONTIUM BY GAMMA RAY SCINTILLATION SPECTROMETRY AND BETA RAY PROPORTIONAL COUNTING
USNRDL-TR-733 N64-33523 24-23

DECAY RATE
INFLUENCE OF RESONANCE TRANSFER ON LUMINESCENCE DECAY
SSD-TDR-63-301 N64-12614 04-25

POWER FLATTENING STUDY - EXPONENTIAL DECAY OF RADIOISOTOPIC HEAT SOURCE OF THERMOELECTRIC GENERATOR
NYO-9783 N64-15332 07-06

VECTOR BOSON PRODUCTION AND DECAY - NEUTRINO EXPERIMENTS N64-15503 07-23

DECAY RATES OF PASSIVE PENDULUM WOBBLE PRECESSION DAMPERS AND THEIR BOUNDS
AIAA PAPER-64-658 N64-27645 19-06

DETERMINATION OF ELECTRON COLLISION FREQUENCY AND DECAY RATE OF CESIUM GAS DISCHARGE PLASMA BY MICROWAVE METHOD
NASA-TT-F-8980 N64-33387 24-24

DEGELERATION
CF ACCELERATION
CF MOTION
CF VELOCITY
LONGITUDINAL DECELERATION EFFECT ON LOADS AND MOTIONS OF SEAPLANE LANDING IN WAVES
R-924 N64-12040 03-04

WATER FLOW CHANNEL AND INSTRUMENTATION AND APPLICATION TO AERODYNAMIC DECELERATION
RTD-TDR-63-4024 N64-18938 11-10

HUMAN TOLERANCE TO TRANSVERSE ACCELERATION AND DECELERATION FORCES N64-22075 15-16

SPACECRAFT DECELERATION BY AERODYNAMIC BRAKING TO ESTABLISH ORBIT ABOUT MARS
AIAA PAPER-64-479 N64-24812 17-29

DECELERATION AND MASS LOSS OF BODY OF ABLATING MATERIAL DURING HIGH SPEED MOTION IN EARTH ATMOSPHERE
P-2900 N64-25983 18-13

DECELERATION AND ENERGY CONVERSION IN PLASMA EXPANDING IN VACUUM IN PRESENCE OF MAGNETIC FIELD
NASA-TT-F-239 N64-26837 18-24

PARACHUTE DECELERATOR TESTS AT HIGH ALTITUDES AND HIGH MACH NUMBERS
FDL-TDR-64-35, VOL. I N64-31694 23-04

DEGELERATOR
SA PARACHUTE
CF ACCELERATOR
GEMINI PROJECT - AERODYNAMIC PERFORMANCE OF BALLUTE DECELERATORS MOUNTED TO MODEL SUPPORT STRUT & TO RIGID MANIKIN
AEDC-TDR-63-255 N64-12073 03-02

ROTARY WING DECELERATOR RECOVERY DEVICE - WIND-TUNNEL TESTING, AND FREE FLIGHT DROP TESTS AT SUBSONIC AND SUPERSONIC SPEEDS
R-467 N64-14970 06-04

DEPLOYABLE AERODYNAMIC DECELERATORS
ASD-TR-61-579 N64-15804 07-04

DECISION
SA STATISTICAL DECISION THEORY
CF COGNITION
TACTICAL DECISION MAKING FOR THREAT EVALUATION AND ACTION SELECTION IN AEROSPACE SURVEILLANCE
ESD-TDR-61-42 N64-11302 02-01

PROBABILITY OF DETECTION AND CORRECT DECISION AMONG ALTERNATIVES FOR PHASE-INCOHERENT RECEPTION
AFCRL-63-374 N64-12192 03-09

PREPARATION OF PROGRAMMED INSTRUCTION FOR AUTOMATED TRAINING IN DECISION MAKING - PERT PROGRAM
ESD-TDR-63-608 N64-12319 03-14

DYNAMIC DECISION FUNCTION EVALUATION AND METHOD FOR ESTIMATING RELIABILITY OF REDUNDANT SYSTEMS
NASA-CR-55307 N64-14286 06-09

DECISION MAKING, COMMUNICATION THEORY, AND SPACE COMMUNICATIONS N64-17200 09-08

ANALOG COMPUTER STUDIES OF ALL-WEATHER INSTRUMENT LANDING SYSTEMS - LOW APPROACH DECISION REGIONS AND GLIDE PATH EXTENSION N64-26950 18-22

CERTITUDE JUDGEMENT AND ACCURACY OF INFORMATION ASSIMILATION FROM VISUAL DISPLAYS
USAPRO-TRN-145 N64-29947 21-14

DECISION THEORY
DECISION THEORY - TROUBLESHOOTING AND UTILITY FOR RISK TASKS
AMRL-TDR-63-92 N64-12218 03-01

COMPARISON OF HUMAN & MACHINE SOLUTION TO DECISION PROBLEM WHERE PROBABILITY OF REINFORCEMENT
VARIES - CYBERNETICS N64-12527 04-14

MAXIMUM-LIKELIHOOD DETECTION IN BINARY CHANNEL WITH MEMORY
AFCRL-63-313 N64-12610 04-09

APPARATUS FOR GROUP DECISION MAKING AND COMMUNICATIONS PATTERNS UNDER CONDITIONS OF STRESS AND OVERLOAD
AD-428615 N64-14624 06-13

DECISION THEORY - MEASUREMENTS OF SUBJECTIVE PROBABILITY AND UTILITY PROBLEMS
ESD-TDR-63-622 N64-16074 07-14

TERM EXPECTATION AND UNCERTAINTY IN HUMAN DECISION BEHAVIOR
AMRL-TDR-63-118 N64-16799 08-14

DECISION PROCEDURE FOR FINITE DECISION PROBLEMS UNDER COMPLETE IGNORANCE
MRC-445 N64-18377 10-20

OBSERVATION AND DECISION PROCEDURES IN SIGNAL DETECTION DEVICES
REPT.-03674-4-T N64-20362 13-09

APPLICATION OF STATISTICAL DECISION THEORY TO DESIGN OF EXTRATERRESTRIAL LIFE DETECTORS
NASA-CR-58531 N64-28939 20-14

STATISTICAL DECISION THEORY FOR OPTIMUM CLASSIFICATION PROCEDURES FOR PHOTOGRAPHS
AFCRL-64-640 N64-29930 21-13

MARKOVIAN SEQUENTIAL DECISION PROCESSES IN DETERMINING OPTIMAL RULES FOR STOCHASTIC SYSTEMS
TR-20 N64-31623 23-20

APPLICATION OF STATISTICAL DECISION THEORY TO AUTOMATIC RADAR DETECTION SYSTEMS
NEL-1202 N64-32577 23-20

DECISION THEORY IN STOCHASTIC SYSTEMS - MARKOV CHAIN MATRIX
REPT.-64-25 N64-32798 24-20

DECODING
CF CODING
DECODING RULES FOR ANY KAUTZ CODE
AFCRL-63-514 N64-12289 03-08

EFFECTS OF NOISE IN PICTURE PROCESSING & CODING COLOR PICTURES, SEQUENTIAL DECODING FACILITY, AND ERROR BOUND FOR FIXED-TIME CONTINUOUS CHANNELS
N64-17880 10-08

CODING AND DECODING TIME-DISCRETE AMPLITUDE-CONTINUOUS MEMORYLESS CHANNEL
RLE-TR-399 N64-18366 10-20

REPRESENTING VALUES OF OPTIMAL NONUNIFORM CODES ON MASKS OF CATHODE-RAY DECODING TUBES
FTD-TT-61-461/1&2&4 N64-22411 15-09

ENCODING AND DECODING EQUIPMENT FOR MAGNETIC TAPE RECORDING OF SLOWLY VARYING METEOROLOGICAL PARAMETERS N64-26975 19-15

METHOD OF DECODING FOR BOSE-CHAUDHURI CODES WITH CORRECTION OF TRIPLE ERRORS N64-30211 22-20

DECOMPOSITION
SA CARBONIZATION
SA DISSOCIATION
SA ELECTROLYSIS
SA HYDROLYSIS
SA THERMAL DECOMPOSITION
CF CHEMICAL REACTION
CF DEGRADATION
FRICTION, WEAR, DECOMPOSITION MECHANISMS, AND EVAPORATION RATES OF POLYMER COMPOSITIONS IN VACUUM
NASA-TN-D-2073 N64-12105 03-19

EFFECT OF CATION RATIO CHANGE ON DECOMPOSITION REACTION OF NITRATE ION BY PYROSULFATE ION IN ALKALI NITRATES
IS-742 N64-14225 06-07

MASS SPECTROMETRIC STUDY OF VAPORIZATION PROCESS, AND MEASUREMENT OF HEAT OF DECOMPOSITION FOR COMPOUNDS OF ZINC, CADMIUM, & MERCURY
WADD-TR-60-782, PT. 18 N64-14513 06-07

METHOD FOR DECOMPOSITION OF AMMONIUM NITRATE IN AQUEOUS SOLUTION
AERE-R-4393 N64-15604 07-07

INTRAPHASE DECOMPOSITION AND ITS EFFECT ON ALLOYS
N64-16604 08-18

TWO-PHASE DECOMPOSITION OF SOLID SOLUTIONS
N64-16605 08-25

MECHANISM OF DECOMPOSITION, COMBUSTION, AND DETONATION OF SOLIDS
AD-431563 N64-16892 08-26

THEORY OF DEUTERON PHOTODISINTEGRATION
N64-16917 09-23

RADIATION DECOMPOSITION OF SEVERAL AROMATIC HYDROCARBONS & FREE RADICALS
USNRDL-TR-718 N64-21806 15-07

CARBOXYHEMOGLOBIN IN DECOMPOSED BODIES OF ANIMALS
AMRL-TDR-63-69 N64-22290 15-16

PHOTOCATALYZED DECOMPOSITION OF WATER INTO GASEOUS HYDROGEN AND OXYGEN, AND MECHANISMS OF INTRAMOLECULAR ELECTRON TRANSFER IN ORGANIC COMPOUNDS
AFCRL-64-431 N64-28576 20-07

MECHANISMS OF DECOMPOSITION, COMBUSTION, AND DETONATION OF SOLIDS
REPT.-0372-01-17 N64-29431 21-26

DECOMPOSITION KINETICS OF HYDRAZINE USING SINGLE-PULSE SHOCK TUBE
PSU-12-P N64-29799 21-26

DECOMPOSITION OF SILVER OXIDE IN AQUEOUS POTASSIUM HYDROXIDE
TR-2 N64-30624 22-07

ELECTRON PARAMAGNETIC RESONANCE TECHNIQUES FOR TRIPLET-STATE MOLECULE OBSERVATIONS IN SENSITIZED SOLVENT DECOMPOSITION
SSD-TDR-64-97 N64-30984 22-23

DECOMPRESSION
CF COMPRESSION
PROTECTIVE EFFECT OF XYLOCAINE ON TOLERANCE OF VIBRATED RATS TO EXPLOSIVE DECOMPRESSION
AD-432880 N64-20373 13-16

SPACE SUIT - BREATHING, VENTILATION, PRESSURE AND DECOMPRESSION
FTD-TT-64-134/1&2&4 N64-21973 15-16

INCIDENCE OF PHYSIOLOGICAL SYMPTOMS IN HEALTHY MEN AFTER EXPOSURE TO RAPID DECOMPRESSION - ALTITUDE SIMULATION TESTS
RR-3 N64-31886 23-16

DECOMPRESSION SICKNESS
FLIGHT MEDICINE - VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN, HYPOXIA & METABOLISM, FAT EMBOLISM DURING DECOMPRESSION
DVL-273 N64-12751 04-16

FAT EMBOLISM DURING DECOMPRESSION
N64-12755 04-16

FAT EMBOLISM IN ANIMALS DURING DECOMPRESSION
N64-12756 04-16

OXYGEN DECOMPRESSION SICKNESS RESULTS ON RATS APPLIED TO HUMAN RESPIRATION PHYSIOLOGY
N64-15042 07-16

CARDIORESPIRATORY RESPONSES OF ANESTHETIZED DOGS TO COMPRESSION THERAPY FOLLOWING EXPERIMENTAL DECOMPRESSION SICKNESS
SAM-TDR-63-94 N64-15744 07-16

EFFECTS ON DECOMPRESSION SICKNESS OF BREATHING OXYGEN OR OXYGEN-NITROGEN MIXTURES PRIOR TO RAPID DECOMPRESSION AND PROLONGED LOW PRESSURE
N64-15856 07-16

ETIOLOGY OF DECOMPRESSION SICKNESS - GAS-BUBBLE FORMATION IN VASCULAR SYSTEM AND TISSUES
DVL-351 N64-26665 18-16

DECOMPRESSION SICKNESS OF PILOT IN UNPRESSURIZED AIRCRAFT IN TROPOSPHERE
FPRC-MEMO-199 N64-29768 21-16

ETIOLOGY OF DYSBARISM - DECOMPRESSION SICKNESS
AD-601600 N64-32400 23-16

DECONTAMINATION
CF CONTAMINATION
REMOVING RADIOACTIVE ISOTOPES FROM ORGANISMS BY CHEMICAL MEANS - CHELATE AND OTHER COMPLEXES
JPRS-18775 N64-10458 01-16

MOBILE HUMAN DECONTAMINATION UNIT FOR LONGTIME OPERATION WITHOUT REFUELING
EUR-407.F N64-10465 01-16

NATURALLY OCCURRING EARTH MATERIALS USED FOR DECONTAMINATING LOW LEVEL RADIOACTIVE WASTES
IDO-14624 N64-15180 07-07

DRYING CABINET DECONTAMINATION OF FACE MASKS
LAMS-3090 N64-24081 16-15

HYDROGEN TRANSFER, CO-OXIDATION, AND AUTOXIDATION STUDIES FOR DECONTAMINATION OF CHEMICAL WARFARE AGENTS
BPR-5 N64-26635 10-07

APPENDICES OF STUDY ON RADIOLOGICAL DECONTAMINATION UNDER COLD WEATHER AND THAWING CONDITIONS
NDL-TR-58, PT. 2 N64-27932 20-21

CHEMISTRY AND ATOMIC ENERGY - NUCLEAR REACTOR FUEL AND WASTE PROCESSING, TRANSURANIUM ELEMENTS, FISSION PRODUCT EXTRACTION, RADIATION EFFECTS, AND DECONTAMINATION
ORNL-3627 N64-31061 22-07

FLUID FLOW MODIFIED BY THERMOELECTRIC COOLING OF LIQUIDS, ELECTRICAL DECONTAMINATION, PRESSURE SURGE SUPPRESSION, AND PUMPING
ASD-TDR-63-776, VOL. I N64-32570 23-11

DEEP SPACE
ELECTRO-OPTICAL SYSTEMS FOR DEEP SPACE COMMUNICATIONS LINKS
NASA-CR-55813 N64-16727 08-23

OPTICAL COMMUNICATIONS SYSTEM FOR DEEP SPACE VEHICLE TO EARTH LINK
NASA-CR-55812 N64-16770 08-08

OPTICAL COMMUNICATIONS FROM DEEP SPACE
NASA-CR-55815 N64-17692 09-08

ORIGIN AND PHYSICAL PROPERTIES OF JUPITER - DEEP SPACE INVESTIGATIONS
NASA-CR-53735 N64-19567 12-05

SATELLITES OF JUPITER - DEEP SPACE INVESTIGATIONS
NASA-CR-53736 N64-19568 12-05

ORIGIN AND STRUCTURE OF COMETS - DEEP SPACE INVESTIGATIONS
NASA-CR-53777 N64-19569 12-05

PHYSICAL PROPERTIES AND ORIGINS OF ASTEROIDS - DEEP SPACE INVESTIGATIONS
NASA-CR-53774 N64-19570 12-29

HETERODYNE DEEP SPACE OPTICAL COMMUNICATION SYSTEM
NASA-CR-53636 N64-19990 12-08

DEEP SPACE OPTICAL COMMUNICATIONS SYSTEM
N64-22447 15-08

LASER, OPTICAL DETECTOR, AND MODULATION SYSTEMS FOR DEEP SPACE OPTICAL COMMUNICATION STUDY
NASA-CR-73 N64-26667 18-08

RIOMETER AND PHASE-SOUNDER FOR DETECTION OF NUCLEAR EXPLOSIONS IN DEEP SPACE - VELA PROJECT
AD-444659 N64-33365 24-12

DEEP SPACE INSTRUMENTATION FACILITY /DSIF/
SPACE PROGRAMS OF DEEP SPACE INSTRUMENTATION FACILITY
NASA-CR-52144 N64-10113 01-10

LUNAR, PLANETARY-INTERPLANETARY PROGRAM, DEEP SPACE INSTRUMENTATION FACILITY, OPERATIONAL & TEST FACILITY, AND SPACE SCIENCES
NASA-CR-53009 N64-13263 04-32

ENGINEERING DEVELOPMENT OF DEEP SPACE INSTRUMENTATION FACILITY
NASA-CR-55419 N64-15553 07-08

HANDLING OPERATIONS OF SATELLITE TRACKING DATA BY DEEP SPACE INSTRUMENTATION FACILITY
NASA-CR-53065 N64-15792 07-08

DEEP SPACE INSTRUMENTATION FACILITY /DSIF/ SPACECRAFT TRACKING PERFORMANCE DURING RANGER IV LUNAR PROBE MISSION
NASA-CR-56559 N64-23520 16-22

DEEP SPACE INSTRUMENTATION FACILITY - PRECISION TRACKING AND COMMUNICATIONS SYSTEM CAPABLE OF PROVIDING COMMAND, CONTROL, AND TRACKING DATA
NASA-CR-56666 N64-25801 17-30

SPACE EXPLORATION PROGRESS IN LUNAR AND PLANETARY-INTERPLANETARY PROGRAMS, DEEP SPACE INSTRUMENTATION FACILITY /DSIF/, AND SPACE SCIENCE
NASA-CR-58546 N64-28972 20-32

DEFECT
S CRYSTAL STRUCTURE DEFECT
S FLAW
S INHOMOGENEITY
S POINT DEFECT

DEFENDER PROJECT
SHOCK FRONT STRUCTURE IN OXYGEN IN SHOCK TUBE AT HYPERSONIC SPEEDS - DEFENDER PROJECT
AVCO-EVERETT RES. REPT.-169 N64-15939 07-24

FUELS SUITABLE FOR APPLICATION TO EXTERNAL COMBUSTION ENGINE - DEFENDER PROJECT
TM-109 N64-25754 17-26

SPECTRAL EMISSIVITIES OF WATER BETWEEN 4 MICRONS AND 22 MICRONS FOR TEMPERATURES OF 550 DEGREES TO 2,200 DEGREES K
GDA-DBE64-046 N64-28904 20-23

EFFECT OF BOUNDARY LAYER BLOWING ON LAMINAR SEPARATED SHEAR LAYER - DEFENDER PROJECT
EOS-RN-9 N64-29320 21-11

CZOCHRALSKI APPARATUS, RUBY CRYSTALS, CRYSTAL EVALUATION, REFRACTIVE INDEX VARIATION, AND ETCHING OF DISLOCATIONS
AD-443460 N64-30778 22-25

NONEQUILIBRIUM RADIATION FROM STAGNATION REGION OF HYPERVELOCITY PROJECTILES IN FREE FLIGHT
TR-64-026 N64-31115 22-11

AROMATIC ORGANIC LASER DEVELOPMENT
AD-429409 N64-31121 22-25

QUANTUM DEFECT METHOD FOR CALCULATING CROSS SECTIONS OF PHOTOIONIZATION OF NITROGEN AND OXYGEN ATOMS AND FIRST IONS OF OXYGEN AND NITROGEN
TR-64-028 N64-31132 22-23

MEASUREMENT DEVICES FOR HIGH INTENSITY OPTICAL RADIATION FROM LASERS
EOS-3490-FINAL N64-31165 22-15

PREPARATION AND ELECTROLUMINESCENCE OF ZINC AND CADMIUM SEMICONDUCTOR MATERIALS FOR LASERS
AD-442258 N64-31642 23-25

NUCLEAR DETONATION EFFECT ON PROPAGATION OF ELECTROMAGNETIC WAVES COMPUTED BY FORTRAN PROGRAM
R64TMP-8-/3/ N64-32464 23-20

CALCULATION OF MANPOWER & EQUIPMENT REQUIREMENTS FOR MAINTENANCE OF MINUTEMAN ICBM SYSTEMS
RM-3308-PR N64-32524 23-10

ABLATION SENSORS FOR MEASURING POSITION AND MOVEMENT OF INTERNAL DEGRADATION ZONES IN PHENOLIC-GRAPHITE HEAT SHIELDS
SSD-TDR-64-173 N64-32525 23-15

SPECTRAL SLIT WIDTH OF SMALL PRISM MONOCHROMATOR FOR IMAGE INTENSITY DISTRIBUTIONS
GDA-DBE-64-054 N64-32679 23-15

PERFORMANCE LIMITATIONS OF HIGH VELOCITY LIGHT GAS GUNS INCLUDING RATIO OF ACCELERATING FORCES TO PROJECTILE STRENGTH
CTN64-03 N64-32682 23-10

SABOT DESIGN FOR GUN-LAUNCHING OF AERODYNAMIC MODELS - PROJECT DEFENDER
CTN64-04 N64-32683 23-10

TRACER-SPARK TECHNIQUE FOR STUDY OF HYPERVELOCITY FLOW FIELDS
SUDAER-190 N64-32969 24-10

NITROGEN INJECTION IN HYPERSONIC WAKE BASE REGION
MEMO-71 N64-33476 24-11

FINITE DIFFERENCE METHOD SOLUTION OF NONSIMILAR, NONEQUILIBRIUM AIR, LAMINAR AND TURBULENT BOUNDARY LAYER FLOWS - INPUT DATA MANUAL - DEFENDER PROJECT
TR-422 N64-33656 24-11

CROSS-POLARIZED ELECTROMAGNETIC BACKSCATTER USING SECOND BORN APPROXIMATION
DAMP-TM-64-01 N64-33717 24-24

DOPING OF INDIUM ANTIMONIDE & GERMANIUM DETECTORS
NRL-MEMO-1550 N64-33730 24-25

ABSORPTION AND EMISSION SPECTRA STUDIES OF CALCIUM FLUORIDE AND CADMIUM FLUORIDE CRYSTALS DOPED WITH TRANSITION METAL AND/OR RARE EARTH IONS FOR USE AS LASER HOSTS
AD-446246 N64-33749 24-25

USE OF SFERICS AS SIGNAL SOURCE IN MEASUREMENT OF VERY LOW FREQUENCY ANTENNA PATTERNS
NOLC-581 N64-33796 24-08

FLUORESCENCE ON NONSOLARIZING LASER GLASS MATERIAL - DEFENDER PROJECT
TSR-4 N64-33925 24-25

GAS LASER MEDIA AND OUTPUT CONTROL
TRG-134-QTR-9 N64-33944 24-25

PHYSICAL LIMITATION FACTORS ENCOUNTERED IN GENERATING VERY HIGH POWER FOR RADIO FREQUENCY AMPLIFIER TUBES
ESD-TDR-63-548 N64-33977 24-09

DEFENSE
SA MILITARY TECHNOLOGY
SA SAGE AIR DEFENSE SYSTEM
SA SPACE SURVEILLANCE SYSTEM
INFORMATION SYSTEM FOR IDENTIFICATION & RAID RECOGNITION IN AEROSPACE DEFENSES
ESD-TDR-64-189, VOL. 1 N64-21091 14-01

INSTRUMENTATION FOR MONITORING ENVIRONMENT WITHIN CIVIL DEFENSE SURVIVAL SHELTER
AD-600759 N64-25739 17-01

SOCIOLOGICAL SURVEY OF CIVIL DEFENCE TECHNIQUES - PUBLIC FALLOUT SHELTERS
AD-603125 N64-32529 23-14

DEFENSE PROGRAM
METALS & THEIR ALLOYS AND COATINGS FOR REFRACTORY METALS - DEFENSE APPLICATION
OMIC MEMO-183 N64-12249 03-18

HYPERVELOCITY-PROJECTOR FACILITIES DIRECTORY - DEFENSE PROGRAMS
BAT-197-21-4 N64-31111 22-10

NASA-DEFENSE DEPARTMENT RELATIONSHIP
N64-32941 24-01

DEFLAGRATION
CF COMBUSTION
ONE-DIMENSIONAL NUMERICAL TREATMENT OF DEFLAGRATION TO DETONATION TRANSITION OF DENSE HETEROGENEOUS EXPLOSIVES
NOLTR-63-197 N64-11175 02-19

TRANSITION FROM DEFLAGRATION TO DETONATION - CRITICAL CONDITION IN TIME-DEPENDENT THERMAL EXPLOSIONS
NOLTR-63-282 N64-30594 22-13

DEFLECTION
LARGE DEFLECTION OF RECTANGULAR CYLINDRICAL PANELS UNDER UNIFORM EXTERNAL PRESSURE
RAE-TRANS-1051 N64-14462 06-33

DEFLECTIONS OF COMBUSTION CHAMBER SHELLS IN LIQUID ROCKET ENGINES N64-23630 16-26

LOCAL DEFLECTION IN SHELLS OF COMBUSTION CHAMBER OF LIQUID PROPELLANT ROCKET ENGINE
N64-23632 16-23

BENDING OF RECTANGULAR PLATES WITH FINITE DEFLECTION
IMM-NYU-322 N64-24329 17-33

MATRIX THEORY FOR FORCE, DEFLECTION, AND STRESS CALCULATION FOR LINEAR-ELASTIC SKELETAL STRUCTURES
WAPD-TM-417 N64-26611 18-34

RELATION OF DEFLECTION TO PRESSURE FOR CLAMPED CIRCULAR PLATE IN PLASTIC RANGE
WAPD-282 N64-27412 19-33

DEFLECTION CURVES DEVELOPED FOR CIRCULAR CROSS SECTION PRESSURIZED TUBE UNDER BENDING AND COMPRESSION
REPT.-6-90-63-114 N64-28615 20-33

DEFLECTOR
DEFLECTRON ENGINEERING - REDESIGN OF NARROW-ANGLE DEFLECTRON, PROCESSING CERAMIC SUBSTRATE CONES, & VACUUM-METALLIZING TECHNIQUES
AD-403324 N64-15369 07-09

VANELESS DEFLECTOR FOR RADIAL-AXIAL TURBINES
N64-23472 16-11

SPARK GAP TRIGGER CIRCUIT FOR ADONE DEFLECTOR
LNF-64/39 N64-32743 24-09

DEFORMATION
SA CREEP
SA ELASTIC DEFORMATION
SA PLASTIC DEFORMATION
CF DISTORTION
CF MECHANICAL PROPERTY
METAL DEFORMATION AND INDUCTION HEATING DURING ROLLING OF GEARS - COMPARISON WITH MACHINED GEARS
JPRS-19273 N64-10509 01-17

LAWS OF DEFORMATION APPLIED TO SINTERING AS DEFORMING DUE TO SURFACE TENSION
N64-10687 02-18

DISPLACEMENT OF DEFORMABLE BODY BY NONSTATIONARY SOUND WAVE IN VISCOUS FLUID
JPRS-22344 N64-11916 03-23

DEFORMATION CONFIGURATIONS OF DIPHASE STRUCTURE WITH DISPERSION OF SECOND PHASE COHERENT WITH MATRIX IN THIN FOILS OF ALLOY
JPRS-22471 N64-12093 03-25

FINITE PLANE DEFORMATION OF CASE BONDED HOLLOW CYLINDER
CU-20-63-ONR-266/78/-CE N64-12821 04-33

POLYMER SYSTEM SMALL DEFORMATION VISCOELASTIC PROPERTIES
ARDD-2589-8 N64-13042 04-19

WEATHER FORECASTING - FLUCTUATION & DEFORMATION OF HIGH-ALTITUDE PLANETARY FRONTAL ZONES, COMPUTING ALTITUDE OF 500-MILLIBAR SURFACE
JPRS-22741 N64-13467 05-21

FORECASTING DEFORMATION OF HIGH-ALTITUDE PLANETARY FRONTAL ZONE DURING NATURAL SYNOPTIC PERIODS
N64-13470 05-21

AEROELASTICITY - STRUCTURAL DEFORMATION IN AIRCRAFT BY EXTERNAL FORCES N64-13554 05-33

EFFECTS OF ULTRASONICS ON METAL DEFORMATION CHARACTERISTICS
AD-425846 N64-13853 05-18

SYNTHESIS OF HIGH PURITY BERYLLIUM AND ITS DEFORMATION AND FRACTURE CHARACTERISTICS
Q-82089-3 N64-13973 05-18

CHANGE OF ELECTRON WORK FUNCTION DURING COLD WORKING OF MOLYBDENUM & TANTALUM AND HIGH TEMPERATURE DEFORMATION OF REFRACTORY METALS
JPRS-23121 N64-14878 06-17

DEFORMATION AND COMPRESSION OF QUENCHED URANIUM-MOLYBDENUM ALLOYS
AERE-R-4353 N64-15603 07-18

COMPRESSION AND DEFORMATION OF LEAD SPHERES IN UNIRAM TETRAHEDRAL ULTRAHIGH PRESSURE DEVICE
ERR-FW-211 N64-15710 07-23

DEFORMATION MECHANISM OF ALUMINUM SINGLE CRYSTALS AT VARIOUS TEMPERATURES N64-17049 09-25

DEFORMATION CHARACTERISTICS OF THIN METAL FOILS AND COMPOSITES
F-A2366 N64-17446 09-25

HIGH STRAIN RATE DEFORMATION BEHAVIOR OF METALS OVER WIDE RANGE OF TEMPERATURES AND RATES OF DEFORMATION
AD-432669 N64-17668 09-18

STRESSED AND DEFORMED STATE OF STIFFENED CIRCULAR CYLINDRICAL SHELL ACTED UPON BY TRANSVERSE PRESSURE AND UNIFORM AXIAL LOADS
NASA-TT-F-194 N64-17830 09-33

DEFORMATION EFFECTS ASSOCIATED WITH CREEP AND FATIGUE LOADING ON METALS
RJD-TDR-63-4149 N64-17858 10-18

METHODS FOR PREDICTING DEFORMATION BEHAVIOR OF CORRUGATED CYLINDRICAL AND CONICAL SHELL STRUCTURES - ENERGY ABSORPTION
AFOSR-64-0154 N64-18037 10-33

EQUATIONS FOR DEFORMATION OF MATERIALS WITH PLASTIC MEMORY WITH SOME SYMMETRY
C11-89 N64-18619 11-20

AXISYMMETRIC, PLANE-STRAIN DYNAMIC RESPONSE OF THICK, ORTHOTROPIC, VISCOELASTIC SHELL
PIBAL-682 N64-18769 11-33

IMAGE RECORDING AND DISPLAY OF CATHODE RAY TUBE INFORMATION BY SURFACE DEFORMATION OF REUSABLE PHOTOCONDUCTIVE THERMOPLASTIC FILM
RADC-TDR-63-532 N64-18866 11-15

AXISYMMETRIC CREEP BUCKLING OF CLAMPED SHALLOW SPHERICAL SHELLS
TR-145 N64-20350 13-13

STRAIN CHARACTERISTICS OF BERYLLIUM & REFRACTORY METALS
AD-428949 N64-20392 13-18

DONNELL EQUATIONS FOR DEFORMATIONS OF THIN CYLINDRICAL ELASTIC SHELL SUBJECTED TO LATERAL PRESSURE
IMM-NYU-320 N64-20570 13-33

COMPLEMENTARY ENERGY METHOD FOR STATICALLY LOADED STRUCTURES WITH FINITE DEFORMATIONS
ME-836-639 N64-20773 14-33

MEMBRANE DEFORMATIONS FOR SHALLOW SHELLS HAVING POSITIVE GAUSSIAN CURVATURE
FTD-TT-63-598/1&2&3&4 N64-21951 15-33

EFFECTS OF ULTRASONICS ON DEFORMATION CHARACTERISTICS OF METALS
AD-600383 N64-22334 15-18

WIRE RESISTANCE STRAIN GAUGE INSTRUMENT TO MEASURE MECHANICAL STRESS AND DEFORMATION
FTD-TT-63-729/1&2&4 N64-22355 15-15

ROTATIONALLY SYMMETRIC STRESSES AND DEFORMATIONS IN ELASTIC MEMBRANE BY SPHERICAL INDENTER
SUDAER-182 N64-22504 15-33

EFFECT OF DEFORMATION ON ANODIC DISSOLUTION OF PURE POLYCRYSTALLINE MAGNESIUM IN DILUTE SULFURIC ACID
TR-7 N64-23603 16-07

GENERAL MECHANICS, MECHANICS OF DEFORMABLE MEDIA, AND FLUID MECHANICS N64-24144 16-11

VERTICAL SETTLING OF BOUNDARY OF HALF SPACE IN CAST OF PLANAR DEFORMATION - COORDINATE SYSTEM
RSIC-9 N64-24191 16-23

FIELD EQUATIONS, JUMP CONDITIONS, AND CONSTITUTIVE EQUATIONS OF POLAR ELASTIC DIELECTRIC SUBJECT TO DEFORMATIONS AND ELECTROMAGNETIC FIELDS
TR-25 N64-24389 17-25

DETERMINATION OF STRESS AND DEFORMATION IN FLEXIBLE PLATES AND SHELLS USING PHOTOELASTIC COATINGS
NASA-TT-F-220 N64-25055 17-33

HIGH FREQUENCY INDUCTION HEATING FOR ROCK DEFORMATION TESTING
AFCRL-64-215 N64-25478 17-15

ROLE OF GRAIN BOUNDARY IN DEFORMATION OF CERAMIC MATERIALS
ASD-TDR-62-225, PT. III N64-25485 17-19

POLYNOMIAL AND FUNCTIONAL FORMS OF CONSTITUTIVE EQUATIONS OF VISCOELASTIC MATERIALS UNDER LARGE DEFORMATION
AGES-63-10 N64-26647 18-20

DERIVATION OF CONSTITUTIVE EQUATIONS FOR VISCOELASTIC MATERIALS UNDER LARGE DEFORMATION
AGES-63-11 N64-26648 18-33

ONSANGER PRINCIPLE OF IRREVERSIBLE THERMODYNAMICS APPLIED TO VISCOELASTIC BODIES SUBJECTED TO FINITE DEFORMATION
AGES-64-1 N64-26687 18-13

MECHANICAL PROPERTIES AND DEFORMATION CHARACTERISTICS OF METALS AND ALLOYS UNDER PRESSURE
NEL-142 N64-27187 19-18

HIGH TEMPERATURE DEFORMATION AND FRACTURE BEHAVIOR OF METALS UNDER HIGH STRAIN RATE CONDITIONS
PR-5 N64-27680 19-18

LINEARIZED LARGE DEFORMATION ANALYSIS FOR INITIALLY CURVED, ROTATIONALLY SYMMETRIC MEMBRANES
RAC-2236 N64-28118 20-34

DEFORMATION OF THIN WALLED CYLINDRICAL SHELLS BY EXTERNAL BLAST LOADING
BRL-MEMO-1560, PT. 2 N64-28155 20-33

STRESS CALCULATION FROM DEFORMATION OF PRISMATIC BAR SUBJECTED TO TWISTING N64-28484 20-33

STRESS AND DEFORMATION OF PLATE MOUNTED ON DEFORMED FOUNDATION N64-28495 20-33

COLLISION OF DEFORMABLE BODIES - ORIGINAL AND MODELED PROCESSES AND SIMILARITY OF PARAMETRIC VALUES
JPRS-26499 N64-29757 21-33

EFFECT OF ALLOY COMPOSITION, DEFORMATION TEMPERATURE, HEAT TREATMENT, AND INTERSTITIAL CONTAMINATION ON TWINNING TENDENCY OF NIOBIUM-VANADIUM ALLOYS
ORNL-3678 N64-29953 21-18

TRANSMISSION ELECTRON MICROSCOPIC OBSERVATIONS OF FATIGUE INDUCED DEFORMATION FAULTING IN THIN FOIL STAINLESS STEEL
AFOSR-64-1004 N64-29999 21-18

EFFECT OF TWO-STAGE DEFORMATION MECHANISM ON VARIANCE IN PROPERTIES OF ETHYLENE-PROPYLENE COPOLYMER SERIES
ONR-TR-70 N64-30171 21-19

DEFORMATION AND RESISTIVITY OF IRON AND IRON-CARBON ALLOYS
PR-14 N64-30475 22-18

DEFORMATION CHARACTERISTICS OF DIFFICULT-TO-FORM METALS - EFFECT ON PROCESSING OPERATIONS
AD-446229 N64-30598 22-18

PRELIMINARY DEFORMATION INFLUENCE ON SELF-DIFFUSION IN SILVER AND ITS ALLOYS N64-31420 23-18

APPEARANCE OF LINES OF FLUIDITY DURING DEFORMATION OF ALUMINUM ALLOYS N64-31423 23-17

METALLURGICAL STUDIES - SINTERING OF METAL POWDERS AND RELATION BETWEEN TEMPERATURE AND DEFORMATION IN METALS
JPRS-26543 N64-31467 23-18

TEMPERATURE DEPENDENCE OF DEFORMATION RESISTANCE OF SUBSTITUTIONAL SOLID SOLUTIONS - MECHANICAL PROPERTIES OF ALLOYS N64-31469 23-18

SHEAR STRENGTH DEFORMATION TESTS OF UPPER MANTLE MINERAL ANALOGS FORSTERITE, ENSTATITE, DIOPSIDE, AND LABRADORITE AT 27 DEGREE CENTIGRADE
AFCRL-63-619 N64-31808 23-12

BIBLIOGRAPHY ON ROCK DEFORMATION
AFCRL-64-713 N64-32113 23-25

HIGH TEMPERATURE DEFORMATION AND FRACTURE OF METALS AT HIGH STRAIN RATE

PR-2 N64-32279 23-18

BOUNDS ON RATE OF ENERGY DISSIPATION IN BODY DEFORMING BY SECONDARY CREEP
TR-38 N64-32810 24-33

DYNAMIC DEFORMATION OF SINGLE CRYSTAL AND POLYCRYSTALLINE SPECIMENS OF HIGH PURITY ALUMINUM
TR-2 N64-32952 24-18

TESTING PHYSICAL PROPERTIES OF METALS - STRESS AND STRAIN WITH HIGH RATE OF DEFORMATION
AD-448241 N64-32953 24-33

DEFORMATION UNDER PRESSURE TESTS ON NICKEL, MARAGING STEELS, MAGNESIUM OXIDE, TUNGSTEN-TANTALUM ALLOY, AND CHROME-MAGNESIUM COMPOSITE
NASA-CR-58946 N64-33097 24-18

DEFORMATION OF IRON AND HIGH PURITY CUBIC CRYSTALS, STRESS RELAXATION OF ZONE REFINED IRON, AND BAUSCHINGER EFFECT PHENOMENON
AD-447829 N64-33670 24-25

STRUCTURAL RELIABILITY OF FILAMENT WOUND PRESSURE VESSELS - WINDING PATTERNS AND DEFORMATION CONTROL
REPT.-0627-1-F N64-33741 24-33

DEFORMATION BEHAVIOR, DISLOCATION VELOCITY MEASUREMENTS, STRAIN RATE SENSITIVITY, AND YIELD POINT PHENOMENA IN VARIOUS MATERIALS - FLOW STRESS OF PURE AND DOPED ALKALI HALIDES
ARL-64-135 N64-33955 24-25

DEGASSING
VACUUM DEGASSING IN MANUFACTURE OF HIGH STRENGTH STEEL
DMIC-200 N64-23250 16-18

DEGENERATION
TECHNIQUE FOR RESOLVING DEGENERACY IN LINEAR PROGRAMMING - OPERATIONS RESEARCH
N64-18929 11-20

DEGRADATION
SA CORROSION
CF DECAY
CF DECOMPOSITION
CF THERMAL DEGRADATION
OXIDATION TESTING, CELLOPHANE DEGRADATION AND MODIFICATION, AND DIFFUSION RATE OF SILVER IONS - ALKALINE BATTERY SEPARATOR
NASA-CR-52491 N64-10368 01-19

SURVIVAL OF MODEL GENERATOR UNDER SUSTAINED TEST IN VACUUM WITHOUT DEGRADATION OF POWER OUTPUT
ASD-TDR-62-896, PT. 2 N64-12224 03-06

DEGRADATION, PRODUCTION, AND FORMATION OF DIELECTRICS AS FUNCTION OF TEMPERATURE AND FIELD STRENGTH
AD-422096 N64-12826 04-09

RELIABILITY PREDICTION FOR DEGRADABLE AND NONDEGRADABLE SYSTEMS
ESD-TDR-63-642 N64-13816 05-20

BIBLIOGRAPHY - THERMAL DEGRADATION, OXIDATION, & ANALYSIS OF POLYMERS
PLASTEC NOTE 7 N64-14313 06-19

ELECTROCHEMICAL DEGRADATION OF HUMAN WASTES - BIOASSAY METHODOLOGY
IPR-6 N64-14810 06-16

BIOCHEMICAL FUEL CELLS FOR DEGRADING HUMAN WASTES AND PRODUCING ELECTRICAL ENERGY
NASA-CR-53178 N64-17586 09-06

RELAY DEGRADATION AS MEASURE OF RELIABILITY
N64-19539 12-17

TEST EQUIPMENT TO MEASURE DEGRADATION OF ELECTRONIC DEVICES FOR LIFE PREDICTION
WP-2643-7 N64-19856 12-15

DEGRADATION OF POLYACENAPHTHYLENE-SODIUM COMPLEX AS SHOWN BY ELECTRON SPIN RESONANCE SPECTRUM
NASA-CR-53503 N64-19959 12-19

SEMICONDUCTOR DEVICE DEGRADATION BY SOLID STATE THERMAL DIFFUSION N64-20974 14-25

DEGRADATION RATE IN GALLIUM ARSENIDE TUNNEL DIODES FOR FAILURE PREDICTION N64-20986 14-25

RESIDUAL GAS EFFECTS ON DEGRADATION AND FAILURE IN TRAVELING-WAVE TUBES N64-20988 14-09

DELETERIOUS SURFACE PHENOMENA ON SILICON TRANSISTORS
RADC-TDR-64-111 N64-22278 15-09

DEGRADATION OF CURRENT CARRYING CAPACITY OF SUPERCONDUCTING MAGNETS
NASA-TN-D-2345 N64-22675 15-25

DEGRADATION OF WHITE PAINTS UNDER ULTRAVIOLET RADIATION
GDA-ERR-AN-64-487 N64-28053 20-17

AID FOR INTERPRETATION OF MEDIUM RESOLUTION RADIATION DATA FROM TIROS III SATELLITE - CORRECTION MODELS FOR RESPONSE DEGRADATION IN FIVE-CHANNEL RADIOMETER
NASA-TM-X-51825 N64-28922 20-12

ELECTROCHEMICAL DEGRADATION OF HUMAN WASTES - BIOASSAY WITH CHLORELLA
AD-605724 N64-30569 22-16

DEGREE OF FREEDOM
DEGREES OF FREEDOM, THEORIES OF STABILITY AND CONTROL, AND EQUATIONS OF MOTION FOR HELICOPTERS
N64-10899 02-04

HUMAN PERFORMANCE AS MONITOR AND CONTROLLER OF MULTIDEGREE-OF-FREEDOM SYSTEMS N64-18796 11-14

EFFECT OF EXTERNAL FORCES ON SINGLE VIBRATIONAL FREQUENCY IN COMPUTERS WITH MULTIPLE-DEGREE-OF-FREEDOM SYSTEM - MATRIX ALGEBRA - U.S.S.R.
JPRS-24138 N64-18965 11-23

MOTION OF SINGLE DEGREE OF FREEDOM VISCOELASTIC SYSTEM SUBSEQUENT TO INITIAL IMPULSE
ML-TDR-64-244 N64-33272 24-18

DAMPING CONSTANTS FOR DRY FRICTION-VISCOUS DAMPED SINGLE DEGREE OF FREEDOM SYSTEM
AD-445028 N64-33375 24-23

DEHYDRATION
CF CHEMICAL REACTION
VIBRATION EFFECT ON METABOLIC SYSTEMS AND THERMAL DEHYDRATION OF SALTS
JPRS-18576 N64-10780 02-16

PLASMA CHANGES DUE TO CHANGES IN CONCENTRATION OF CHLORIDE AND CARBON DIOXIDE BY THERMAL DEHYDRATION
N64-10783 02-16

NUCLEAR EXPLOSIVES FOR DEHYDRATION OF LUNAR WATER-BEARING DEPOSITS
UCRL-7515 N64-16547 08-29

DEHYDRATION BEHAVIOR OF BARIUMAZIDE-MONOHYDRATE
AD-448342 N64-32980 24-07

DETERMINATION OF SILICON IN PLUTONIUM METAL, SILICIDE, AND ALLOYS BY PERCHLORIC ACID DEHYDRATION
LA-3134 N64-33066 24-07

DEHYDROGENATION
S CHEMICAL REACTION
S HYDROGENATION

DEICING SYSTEM
S ICING

DEIONIZATION
CF IONIZATION
LANGMUIR PROBE METHOD OF INVESTIGATING DEIONIZING PLASMA

FTD-TT-62-1734 N64-13919 05-24

ION-ION RECOMBINATION CROSS-SECTION CALCULATIONS - ATMOSPHERIC DEIONIZATION
AFCRL-64-142 N64-19103 11-23

DEIONIZATION OF HIGHLY IONIZED ATMOSPHERE - CHEMICAL KINETICS CONTROLLING ELECTRON DENSITY DECAY FOLLOWING NUCLEAR EXPLOSION
AFCRL-64-496 N64-28566 20-07

IONIZATION AND DEIONIZATION IN LOWER IONOSPHERE - GEOPHYSICAL OBSERVATIONS AND LABORATORY MEASUREMENTS
AD-418467 N64-29315 21-12

DELAY
S LAG

DELAY LINE
CF TRANSMISSION LINE
MULTIPLE CIRCULATOR OF FREQUENCY MODULATED SIGNAL IN DELAY LINE WITH FEEDBACK FOR ISOLATING SIGNAL
JPRS-22706 N64-13088 04-09

SONIC DELAY LINE FOR NAVY SPACE SURVEILLANCE SYSTEM
NRL-5927 N64-15128 07-08

SOLID STATE PHYSICS & ULTRASONIC PROPERTIES OF MICROWAVE DELAY LINES
RADC-TDR-64-22 N64-24181 16-09

DESIGN AND EVALUATION OF ION BEAM DELAY LINE
R-4-64-3 N64-25379 17-24

DELAY LINE FILTERS FOR FREQUENCY MULTIPLIERS
CU-20-63-AF-1113-ERL N64-25613 17-09

SPIN ECHO PHENOMENA - MEASUREMENT OF NUCLEAR MAGNETIC RELAXATION & MICROSTRUCTURE OF MOLECULES, APPLICATION IN PREPARATION OF DELAY LINES & STORAGE UNITS N64-29055 21-23

MEMORY STORAGE UNIT WITH TIME COMPRESSION OF SIGNAL AND RECIRCULATOR USING ULTRASONIC DELAY LINE N64-29458 21-09

DELTA LAUNCH VEHICLE
DESCRIPTION OF EXPLORER XIV/DELTA VEHICLE COMPLEX FOR OBSERVATION OF COSMIC RADIATION, SOLAR WIND, & SOLAR PARTICLE FLUX N64-11198 02-29

RELAY COMMUNICATIONS SATELLITE LAUNCHING ABOARD DELTA ROCKET N64-13202 04-32

HEAT TRANSFER DISTRIBUTION ON SWEPT DELTA WINGS WITH SHARP OR BLAND NOSES AND CYCLINDRICAL LEADING EDGE AT MACH 9.86 UP TO 90-DEG ANGLE OF ATTACK
NASA-TN-D-2302 N64-31731 23-13

DELTA WING
LOW SPEED WIND TUNNEL TEST OF 70-DEG CROPPED DELTA WING WITH EDGE BLOWING
COA-162 N64-10212 01-03

TURBULENT BOUNDARY LAYER, PRESSURE DRAG, AND SKIN DRAG OF DELTA WINGS AT ZERO LIFT & SUPERSONIC VELOCITY
ARC-CP-696 N64-10240 01-03

EXPERIMENTS ON JET-FLAP DELTA WING IN GROUND EFFECT
COA-AERO-164 N64-11595 03-03

LONGITUDINAL- AND LATERAL-STABILITY TESTS OF DELTA-WING MODEL IN TRANSONIC WIND TUNNEL
ARC-CP-656 N64-13362 04-04

LOW SPEED WIND TUNNEL TESTS OF DELTA WING - LEADING EDGE VORTEX BREAKDOWN
ARC-R&M-3338 N64-13385 04-03

HEAT TRANSFER TO DELTA-WING HALF-CONE COMBINATION AT HYPERSONIC SPEEDS
NASA-TN-D-2199 N64-15973 07-03

SURFACE PRESSURE AND HEAT TRANSFER DISTRIBUTION ON BLUNT DELTA WINGS OF ELLIPTIC CROSS SECTION AT HYPERSONIC SPEED
ARL-63-231 N64-16061 07-03

THEORY FOR CONICAL FLOW ON SLENDER DELTA WINGS WITH LEADING EDGE BLOWING
COA-AERO-169 N64-16920 09-03

PRESSURE MEASUREMENTS FOR HYPERSONIC FLOWS OVER BLUNT PYRAMID CONFIGURATION COMPOSED OF SWEPTBACK DELTA WING & TWO DIHEDRAL SURFACES
RTD-TDR-63-4239 N64-17525 09-02

PRESSURE & HEAT TRANSFER DATA FOR HYPERSONIC FLOW OVER BLUNT PYRAMID CONFIGURATION COMPOSED OF SWEPTBACK DELTA WING & TWO DIHEDRAL SURFACES
FDL-TDR-64-2, PT. 1 N64-17526 09-02

PRESSURE DATA FOR MACH 5 FLOWS OVER WINGED REENTRY CONFIGURATION COMPOSED OF DELTA WING MOUNTED, CONICALLY CAPPED CYLINDRICAL CABIN
RTD-TDR-63-4179, PT. 2 N64-17654 09-04

PRESSURE, HEAT TRANSFER & FORCE DISTRIBUTION ON SLAB DELTA WING IN AIR AND HELIUM HYPERSONIC FLOW
NASA-TR-R-153 N64-19721 12-02

LOW SPEED WIND TUNNEL DETERMINATION OF DYNAMIC LATERAL STABILITY DERIVATIVES FOR DELTA WING AIRCRAFT
ARL/A-214 N64-22132 15-04

CONTROL SURFACE INTERACTION EFFECTS ON DELTA WING WINDWARD PRESSURES AT HYPERSONIC SPEEDS AND HIGH ANGLES OF ATTACK
NASA-TN-D-2332 N64-23028 16-03

LOW-SUBSONIC AERODYNAMIC CHARACTERISTICS OF DELTA-WING RECOVERY DEVICE FOR NONLIFTING SPACECRAFT
NASA TN-D-2349 N64-23625 16-03

TECHNIQUES DEMONSTRATING MINIMUM FLYING SPEED OF DELTA WING AIRCRAFT
NASA-TN-D-2337 N64-24966 17-04

HEAT TRANSFER DATA FOR DELTA WING SURFACE IN HYPERSONIC FLOW
FDL-TDR-64-2, PT. III N64-25394 17-13

HEAT TRANSFER AND PRESSURE MEASUREMENTS DETERMINED ON DELTA WINGS WITH SHARP AND BLUNT NOSES AT SUPERSONIC SPEEDS
NASA-TN-D-2387 N64-28324 20-03

LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF DELTA WINGS WITH CURVED & STRAIGHT LEADING EDGES FROM MACH 3 TO 6
NASA-TN-D-2486 N64-30100 21-03

FLOW OF CONVECTED HEAT ON DELTA WINGS WITH LARGE CAMBER ANGLES N64-30671 22-11

HYPERSONIC STATIC AND DYNAMIC STABILITY OF OGIVE AND OGIVE-CYLINDER FUSELAGES, AND OF RECTANGULAR AND DELTA WINGS
C910188-12 N64-33296 24-02

DEMODULATION
HETERODYNE DEMODULATION OF FREQUENCY MODULATED LIGHT IN MICROWAVE RANGE
AD-428980 N64-20394 13-25

MODULATION AND PHOTODIODE DEMODULATION OF OPTICAL WAVES
U2-802400-2 N64-23475 16-25

FREQUENCY SPECTRA & DEMODULATION OF PULSES WITH PUSH-PULL MODULATION N64-29470 21-09

DEMODULATOR
PHASE LOCK DEMODULATION OF SINUSOIDAL FM SIGNAL
TDR-269/4111/-6 N64-12190 03-08

DENSITOMETER
SA GRAVIMETER
FLOW IN LOW PRESSURE HYPERSONIC SHOCK TUNNEL USING ELECTRON BEAM DENSITOMETER
NAL-TR-377 N64-32933 24-11

DENSITY
SA ATMOSPHERIC DENSITY
SA FLUX DENSITY
SA GAS DENSITY
SA PLASMA DENSITY
SA POWER DENSITY
SA PROBABILITY DENSITY
AERODYNAMICS OF LOW-DENSITY, AUTOROTATING WINGS FOR MANNED ATMOSPHERIC REENTRY N64-10044 01-02

VORTEX-STABILIZED HIGH CURRENT PLASMA ARC N64-10143 01-24

MEASUREMENT OF ION CONCENTRATION AND TOTAL ION DENSITY IN EXOSPHERE USING MASS SPECTROMETER AND ELECTROSTATIC PROBE
NASA-RP-63 N64-10357 01-12

ANNEALING EFFECT ON DENSITY OF DISLOCATIONS AND COMPRESSION CURVES OF GERMANIUM CRYSTALS N64-10710 02-25

DENSITY AND ELASTICITY CHANGES IN PRESSING OF ALUMINUM, TUNGSTEN, AND COPPER POWDERS N64-11483 03-17

ION DENSITY MEASUREMENTS IN SHOCK TUNNEL BY LITHIUM VAPOR INTRODUCTION
R63SD82 N64-12337 03-23

ION DENSITY MEASUREMENT IN BARIUM PLASMA BY SCATTERING OF RESONANCE RADIATION
MATT-207 N64-15356 07-24

CREATION, PROPAGATION, AND DETECTION OF ALFVEN WAVES IN PARTIALLY IONIZED, LOW DENSITY MEDIUM
AFCRL-63-782, VOL. 1 N64-16063 07-24

ELECTROLYTE SELECTION FOR HIGH ENERGY DENSITY STORAGE BATTERY
NASA-CR-55743 N64-16268 08-06

MONTE CARLO CODE FOR NUCLEAR COLLISION DENSITY OF PRIMARY GALACTIC PROTONS IN ALUMINUM SLAB
NASA-TN-D-2122 N64-17295 09-23

DECAY OF DENSITIES OF ION SPECIES IN AFTERGLOWS FOLLOWING PULSED RADIO FREQUENCY DISCHARGES IN ATMOSPHERIC GASES
AFCRL-64-107 N64-18182 10-24

EFFECT OF DYNAMIC & STATIC PRESSURE ON DENSITY OF POWDER MIXTURE OF IRON, LITHIUM, NICKEL, & ZINC OXIDES
ERR-FW-212 N64-18947 11-17

CHARGED-PARTICLE PROFILES OF UPPER IONOSPHERE FROM ALOUETTE TOPSIDE SATELLITE SOUNDING, COMPARED WITH ROCKET- & GROUND-BASED BACKSCATTER MEASUREMENTS
NASA-RP-158 N64-19148 11-12

FORMATION OF CATHODE SPOTS AND CURRENT DENSITY DISTRIBUTION IN CATHODE SPOTS OF SHORT-TIME HIGH INTENSITY ELECTRIC DISCHARGE
FTD-TT-63-1071/1&2 N64-19752 12-23

DENSITY AND COMPRESSIBILITY OF EARTH MANTLE N64-21128 14-05

DENSITY CHANGES ON ANNEALING COLD-WORKED MOLYBDENUM
FA-A64-6 N64-22893 16-18

VERTICAL DISTRIBUTION OF DUST IN ATMOSPHERE & EFFECTS ON ION CONCENTRATION
AD-600940 N64-22920 16-12

LOW DENSITY THERMAL INSULATION MATERIALS FOR USE ABOVE 3000 DEG F
NASA-CR-56546 N64-23530 16-13

PROPAGATION OF INITIAL DENSITY DISCONTINUITY
MEMO.-70 N64-27571 19-11

PHYSICAL PROPERTIES OF LOW DENSITY ALUMINUM-CERAMIC MATERIAL - CASTING TECHNIQUES
NOL-TR-1229 N64-27957 20-18

PRODUCING LARGE HIGH-DENSITY GRAPHITE BILLETS BY HOT FORMING
WADD-TR-61-72, VOL. 7, SUPPL. N64-28159 20-17

DENSITY OF MOLECULES IN INTERSTELLAR SPACE N64-28388 20-28

AERODYNAMIC DRAG ON SPIKED BLUNT BODIES IN LOW DENSITY HYPERSONIC FLOW
AEDC-TDR-64-160 N64-28605 20-02

HIGH DENSITY BEHAVIOR & DYNAMIC STABILITY OF NEUTRON STAR MODELS N64-29387 21-05

TWO CONTRA-STREAMING ELECTRON BEAMS OF EQUAL DENSITIES AND SPEEDS INTERACTING BETWEEN TWO PARALLEL PLANES
D1-82-0332 N64-29648 21-24

PURE BENDING FLUTTER OF SWEPT WING IN HIGH DENSITY AND LOW SPEED FLOW
REPT.-64-1 N64-30187 21-03

FIELD EMISSION CURRENT DENSITY OF SILICON CATHODES
FTD-TT-64-164/1&2 N64-30702 22-25

EQUATIONS FOR CALCULATING DENSITY OF ICE AS FUNCTION OF TEMPERATURE AND STRESS
SR-64 N64-32519 23-25

LOW DENSITY EFFECTS ON CONVECTIVE HEAT TRANSFER IN HYPERSONIC FLIGHT
REPT.-615045 N64-33838 24-13

DENSITY DISTRIBUTION
TRANSLATIONAL-ROTATIONAL MOTION OF TWO BODIES WITH ARBITRARY FORMS AND DENSITY DISTRIBUTION
JPRS-23220 N64-14955 06-05

CURRENT DENSITY DISTRIBUTION IN AXIAL & RADIAL COMPONENTS OF THICK, FINITE-LENGTH SOLENOID MAGNETIC FIELD
NASA-TR-R-170 N64-15331 07-23

RADIAL DISTRIBUTION OF SPIN DENSITY IN COBALT
AMRA-TR-63-18 N64-18572 11-23

TEMPERATURE AND DENSITY PROFILES OF UPPER ATMOSPHERE FROM METEOROLOGICAL ROCKET MEASUREMENTS
AWS-TR-175 N64-18697 11-21

ROTATION AND DENSITY DISTRIBUTION OF NGC 1792 GALAXY
NASA-CR-53848 N64-19354 12-05

MOON PRESSURE AND DENSITY DISTRIBUTION N64-19358 12-29

METEOROLOGY - CHARTS OF ATMOSPHERIC DENSITY DISTRIBUTION OVER NORTHERN HEMISPHERE
USAELRDL-TR-2393 N64-19374 12-23

DENSITY, TEMPERATURE, AND PRESSURE DISTRIBUTION OF WIND FROM METEOROLOGICAL ROCKET MEASUREMENTS
AFCRL-64-124 N64-19671 12-21

AIR DENSITY DISTRIBUTION VARIATIONS IN MESOSPHERE AND STRATOSPHERE BY SEASON AND LATITUDE
AD-433767 N64-21852 15-12

DENSITY DISTRIBUTION AND INTENSITY OF CHARGED PARTICLES IN STATIONARY GEOMAGNETIC FIELD N64-22030 15-28

DENSITY & INTENSITY DISTRIBUTION OF CHARGED PARTICLES IN STATIONARY GEOMAGNETIC FIELD
NASA-TT-F-8829 N64-23044 16-12

ANGULAR MOMENTUM OF SOLAR INTERNAL & SURFACE LAYERS FOR DENSITY DISTRIBUTION CALCULATIONS N64-23178 16-29

MODEL OF UPPER ATMOSPHERE BASED ON DENSITY PROFILE FOR DERIVATION OF TEMPERATURE, MEAN MOLECULAR MASS, PRESSURE, & PARTICLE CONCENTRATION
LMSC-6-74-64-19 N64-23977 16-12

DENSITY DISTRIBUTION IN ION-EXOSPHERE OF NONROTATING PLANET

NASA-CR-56233 N64-23990 16-28

BASE PRESSURE AND AXIAL DISTRIBUTIONS OF DENSITY AND TEMPERATURE IN LAMINAR HYPERSONIC NEAR WAKES
R64SD35 N64-25532 17-11

COMPUTER PROGRAMS FOR COMPUTATION OF PARTICLE DENSITY DISTRIBUTION ABOUT OBJECT MOVING THROUGH RAREFIED GAS
ARA-F-9221-4 N64-26708 18-11

COMPUTER PROGRAM FOR PREDICTION OF VERTICAL DENSITY DISTRIBUTION IN IONOSPHERE AND EXOSPHERE
NASA-TM-X-53062 N64-29728 21-29

STRESS AND LOAD PRODUCED IN EARTH CRUST AND MANTLE BY DENSITY DISTRIBUTION IRREGULARITIES AND TECTONIC MOVEMENTS OF EARTH
NASA-CR-58228 N64-30520 22-12

LATITUDINAL VARIATION OF ATMOSPHERIC DENSITY DISTRIBUTION
NASA-RP-334 N64-31212 22-12

SHAPE AND INTERNAL STRUCTURE OF MOON - LUNAR PARAMETERS AND DENSITY DISTRIBUTION - RIGID AND THERMAL CONVECTION MODELS
RM-3964-PR N64-31972 23-29

DIURNAL VARIATIONS IN HORIZONTAL AND VERTICAL DISTRIBUTION OF ATMOSPHERIC DENSITY FOR ALTITUDES UP TO 90 KM
AFCRL-64-483 N64-32184 23-12

METEORITIC FLUX AND DENSITY FIELDS ABOUT FINITE ATTRACTIVE CENTER GENERATED BY STREAM MONOENERGETIC AND MONODIRECTIONAL AT INFINITY
NASA-RP-327 N64-32381 23-29

METEORITIC FLUX AND DENSITY FIELDS ABOUT INFINITESIMAL ATTRACTIVE CENTER GENERATED BY STREAM MONOENERGETIC AND MONODIRECTIONAL AT INFINITY
NASA-RP-329 N64-32382 23-29

DENSITY MEASUREMENT

DENSITY DETERMINATION OF THORIUM-URANIUM, THORIUM-PLUTONIUM, CAST THORIUM, & MONOBROMOBENZENE IN GLOVEBOXES
ANL-8671 N64-10394 01-07

DIRECT DENSITY MEASUREMENT OF GAS BY GAMMA RAY SCATTERING
AEDC-TDR-63-187 N64-12080 03-23

UPPER ATMOSPHERE GAS DENSITY MEASUREMENT SENSOR AND CALIBRATION METHODS
NASA-CR-55789 N64-16067 07-15

DETERMINATION OF CAVITATION CONDITIONS FROM DENSITY PROFILES OF MERCURY IN VENTURI TUBES
NASA-CR-53113 N64-16764 08-11

INSTRUMENTATION IMPLEMENTATION FOR INVESTIGATION OF ELECTRICAL STRUCTURE OF UPPER ATMOSPHERE - MEASURING CHARGED PARTICLE DENSITIES
AFCRL-64-50 N64-19640 12-15

MEASUREMENT OF ATMOSPHERIC DENSITY BY INSTRUMENTED NONORIENTATED SATELLITE N64-21637 15-12

PENETRATING COSMIC RADIATION FOR DETERMINATION. OF MEAN ROCK-DENSITY VALUES
JPRS-25104 N64-22797 16-28

ATMOSPHERIC DENSITY VARIATION AT HEIGHTS ABOVE 200 KM
NASA-TT-F-8526 N64-23035 16-12

PHYSICS OF METEOR ENTRY - METHODS FOR OBTAINING MASS AND DENSITY OF METEOROIDS, AND LUMINOUS FLIGHT REGIMES
P-2902 N64-25650 17-29

UPPER ATMOSPHERE SCALE HEIGHT DETERMINATION FROM VOSTOK III AND VOSTOK IV SATELLITE MEASUREMENTS OF ATMOSPHERIC DENSITY
RAE-TM-SPACE-31 N64-26496 18-12

DENSITY MEASUREMENTS OF GASEOUS MEDIUM BASED ON TIME OF FLIGHT OF PARTICLE TRAVERSING MEDIUM - COLLISION PROCESSES OF IONS WITH MOLECULES N64-26970 19-15

GAS DENSITY MEASUREMENTS BY LITHIUM ION PATH LENGTH DETERMINATIONS N64-26972 19-15

MEASURING FREE STREAM AIR DENSITY BY X-RAY SCATTERING
FDL-TDR-64-29 N64-27701 19-21

PLASMA PROBE FOR MARINER A SPACECRAFT, TO DETERMINE DENSITY, ENERGY SPECTRA, AND DIRECTION OF MOTION OF PROTONS AND ELECTRONS IN PLASMA
NASA-CR-56794 N64-27821 19-32

NONDESTRUCTIVE SPECIFIC GRAVITY MEASURING EQUIPMENT USING RADIATION TECHNIQUE
REPT.-58-92-PR-59 N64-31237 22-15

DENTISTRY

ULTRASONIC DEVICE FOR REMOVAL OF DENTAL CALCULUS
JPRS-21998 N64-10390 01-16

ORAL HYGIENE TECHNIQUES FOR SPACE CABIN SIMULATOR FLIGHTS
SAM-TDR-62-110 N64-10558 01-16

HYDROXYCORTICOSTEROID LEVEL OF PATIENTS SCHEDULED FOR DENTAL SURGERY
SAM-TDR-63-11 N64-12366 03-16

DENTAL TISSUE CHANGES IN RATS AFTER REPEATED SMALL DOSES OF IONIZING RADIATION
NASA-TT-F-8851 N64-23046 16-16

HEMATOLOGIC CHANGES FOLLOWING TOOTH EXTRACTION
SAM-TR-63-82 N64-30498 22-16

VACUUM ADAPTATION OF BASEPLATE MATERIALS TO DENTAL CASTS
SAM-TDR-64-51 N64-31054 22-16

DEOXYRIBONUCLEIC ACID

FORTRAN PROGRAM FOR DESOXYRIBONUCLEIC ACID MOLECULAR WEIGHTS FROM VISCOSITY & CENTRIFUGAL SEDIMENTATION
LA-2964 N64-10318 01-07

BIOCHEMICAL TEMPLATING OF DESOXYRIBONUCLEIC ACID-RIBONUCLEIC ACID INTO PROTEIN
JPRS-17811 N64-10566 01-16

TRANSFER OF AMINO ACID STRUCTURE TO RIBOSOMES FROM DESOXYRIBONUCLEIC ACID BY RIBONUCLEIC ACID CODING OF PROTEIN N64-12511 04-16

GENETICS AND STUDY OF HEREDITY - DNA MOLECULE N64-12765 04-16

INHIBITING ACTION OF DEOXYRIBONUCLEASE ON ADENOVIRUSES
JPRS-22050 N64-12883 04-16

INHIBITING CAPACITY OF DEOXYRIBONUCLEASE ON ADENOVIRUSES IN TISSUE CULTURE N64-12884 04-16

THERAPEUTIC VALUE OF DEOXYRIBONUCLEASE IN TREATMENT OF PATIENTS WITH ADENOVIRUS CONJUNCTIVITIS N64-12885 04-16

INCREASED DESOXYRIBONUCEASE ACTIVITY UNDER X-RAY IRRADIATION IN LIVER & SPLEEN N64-13694 05-16

X-RAY AND TRITIUM-LABELED-THYMIDINE STUDIES OF CHROMOSOME DIVISION DELAY AND RATE OF DESOXYRIBONUCLEIC ACID SYNTHESIS
UCRL-10979 N64-14428 06-16

NUCLEIC ACIDS - RIBONUCLEIC AND DESOXYRIBONUCLEIC ACIDS - PHYSICAL & CHEMICAL PROPERTIES AND ROLE IN PROTEIN SYNTHESIS
JPRS-24070 N64-18328 10-16

PHYSICAL AND CHEMICAL PROPERTIES OF SINGLE-STRAND DESOXYRIBONUCLEIC ACID N64-18329 10-16

MECHANISM OF REPRODUCTION /REDUPLICATION/ OF DESOXYRIBONUCLEIC ACID N64-18331 10-16

EFFECT OF DEUTERIUM OXIDE ON PROPERTIES OF DESOXYRIBONUCLEIC ACID AND PROTEINS N64-18412 10-16

INFLUENCE OF RADIOACTIVE THYMIDINE ON X-RADIATION EFFECTS ON DESOXYRIBONUCLEIC ACID SYNTHESIS N64-19150 11-16

OPTICAL PROPERTIES AND MOLECULAR STRUCTURE OF NUCLEIC ACIDS AND THEIR PROPERTIES OBSERVED THROUGH DEOXYRIBONUCLEIC ACID N64-19439 12-16

DEOXYRIBONUCLEIC ACID MOLECULAR STRUCTURE AND CONTINUOUS MODELS OF EXCITABLE MEDIA
JPRS-24256 N64-19782 12-01

FLEXIBILITY OF MOLECULES OF NATURAL DNA - DETERMINATION USING LIGHT SCATTERING AT LARGE ANGLES N64-19783 12-16

PRIMER ACTIVITY OF CHROMATOGRAPHY FRACTIONATED DEOXYRIBONUCLEIC ACID FROM CALF AND RAT THYMUS
USNRDL-TR-655 N64-24185 16-16

STABILITY OF HETEROGENEOUS DEOXYRIBONUCLEIC ACID TO IONIZING RADIATION
JPRS-25282 N64-24487 17-16

DOSE-DEPENDENT DEPRESSION OF DEOXYRIBONUCLEIC ACID STUDY BY X-RAY IRRADIATION AND BROMURACIL DEOXYRIBOSIDE IN MAMMALIAN CELLS
NASA RP-245 N64-27352 19-16

BACILLUS SUBTILIS DEOXYRIBONUCLEIC ACID IN BACTERIOPHAGE LEAD SULFIDE TRANSDUCTION N64-28111 20-16

RADIOCHEMISTRY OF PYRMIDINE BASES - ACTION OF RADIATION ON TRANSFORMING DEOXYRIBONUCLEIC ACID OF BACTERIA
EUR-1646.F N64-28659 20-16

CONCENTRATION, ROTOR SPEED AND BOUNDARY HEIGHT EFFECTS ON ULTRACENTRIFUGAL SEDIMENTATION RATES OF T SUB 4-BACTERIOPHAGE DEOXYRIBONUCLEIC ACID
LA-3098 N64-29526 21-07

AUTORADIOGRAPHIC STUDY OF INCORPORATION OF TRITIATED THYMIDINE INTO DEOXYRIBONUCLEIC ACID MOLECULE
LFEN-NI.11 /ALPHA/ N64-29885 21-16

IRRADIATION-PRODUCED RADICALS, ELECTRON MICROSCOPY OF SINGLE-STRAND DEOXYRIBONUCLEIC ACID, AND IRRADIATION-INDUCED DEFECTS IN DEOXYRIBONUCLEIC ACID
UCRL-11387, SUPPL. N64-30782 22-16

RING STRUCTURE OF SINGLE STRAND DEOXYRIBONUCLEIC ACID SHOWN BY ELECTRON MICROSCOPY N64-30785 22-16

DEPOSITION
SA EPITAXIAL DEPOSITION
RADIOACTIVE FALLOUT DEPOSITION AND WASHOUT COMPUTATIONS BASED ON GENERALIZED GAUSSIAN PLUME MODEL
ORO-599 N64-10158 01-23

FABRICATION AND EVALUATION OF ELECTRODEPOSITED PRESSURE BOTTLE
SR/D-61-2 N64-11768 03-17

ELECTROFORMING, ELECTROCOMBINATION, AND CHEMICAL VAPOR DEPOSITION OF NIOBIUM-TUNGSTEN ALLOY
ML-TDR-64-26 N64-18564 11-17

SUBMICRON IRON AND COBALT PARTICLES PRODUCED BY ELECTRODEPOSITION INTO MERCURY CATHODE TUBE
ASD-TDR-63-423 N64-18568 11-18

PROVISION OF CLEAN SURFACES FOR SODIUM DEPOSITION AND MEASUREMENT OF SURFACE WORK FUNCTIONS - PHOTOEMISSION
ASD-TDR-63-340 N64-18931 11-25

DEPOSITION OF MOLYBDENUM DISULFIDE FILM FOR SPACECRAFT MECHANISM LUBRICATION
NASA-TN-D-2288 N64-21064 14-17

DEPOSITION OF TUNGSTEN BY HYDROGEN REDUCTION OF TUNGSTEN HEXAFLUORIDE IN VAPOR PHASE N64-21347 14-18

REFRACTORY MATERIAL - PLASMA MATERIAL DEPOSITION N64-25420 17-17

P-N JUNCTION FORMATION BY ION IMPLANTATION AND PLASMA DEPOSITION TECHNIQUES
REPT.-2 N64-25661 17-24

ELECTRODEPOSITION OF DISPERSION-STRENGTHENED GOLD ALUMINUM OXIDE ALLOYS
WVT-RR-6321 N64-25720 17-18

TRACER TECHNIQUE FOR LOW-LEVEL ATMOSPHERIC DISPERSION AND DEPOSITION EXPERIMENTS
BNL-859/T-343/ N64-28661 20-21

DEPOSITION FORMING OF COBALT-TUNGSTEN AND NICKEL ALLOYS BY ELECTROCOMBINATION PROCESS
IPR-2 N64-31135 22-17

NICKEL-TUNGSTEN DEPOSITION FROM HYPOPHOSPHITE BASED ELECTROLESS PLATING SOLUTION
A-63-23 N64-31658 23-07

DEPRIVATION
S CONFINEMENT
S SLEEP DEPRIVATION
S STARVATION

DEPTH MEASUREMENT
PHOTOTELEGRAPHIC APPARATUS FOR WEATHER MAP RECEPTION, AND OCEAN BOTTOM RELIEF RECORDING USING FATHOMETER
JPRS-17712 N64-10486 01-21

MARINE GEOMORPHOLOGICAL RESEARCH USING PRECISION DEPTH RECORDER /LADOGA/
JPRS-24317 N64-18974 11-15

DEPTH REGULATION OF LOWERED OCEANOGRAPHIC EQUIPMENT
NEL-1215 N64-22959 16-22

DEPTH PERCEPTION
VISUAL PERCEPTION OF SPATIAL EXTENT - RELATION BETWEEN PERCEIVED & PHYSICAL DISTANCE
CARI-63-20 N64-17235 09-16

EFFECTS OF TRANSIENT WEIGHTLESSNESS ON BINOCULAR DEPTH PERCEPTION
AMRL-TDR-63-134 N64-17509 09-14

ADJADENCY PRINCIPLE APPLIED TO PERCEPTION OF RELATIVE DEPTH FROM SIZE CUES
CARI-63-28 N64-23619 16-16

PHYSIOLOGICAL MECHANISMS INVOLVED IN VISUAL PERCEPTION OF DISTANCE TO MOVING OBJECTS
N64-25140 17-16

INDIVIDUAL PECULIARITIES IN DEPTH PERCEPTION WITH OBJECT MOVING AWAY AND TOWARD SUBJECT
N64-25141 17-16

KINESTHETIC SPATIAL DISCRIMINATION IN SPORTS
N64-25154 17-16

DERIVATIVE
COMPUTATION OF HIGHER PARTIAL DERIVATIVES OF COMPOSITE FUNCTIONS - GENERAL FORMULA
N64-16192 08-20

RECURRENT RELATIONS FOR APPLICATION OF GENERAL FORMULA FOR COMPUTING HIGHER PARTIAL DERIVATIVES OF COMPOSITE FUNCTIONS N64-16193 08-20

RECURRENT RELATIONS FOR COMPUTATION OF DERIVATIVES OF COMPOSITE FUNCTIONS N64-16196 08-20

APPROXIMATIONS FOR RADIAL MATHIEU FUNCTIONS OF FIRST AND SECOND KIND AND FOR THEIR DERIVATIVES
EDL-M630 N64-16979 09-20

ADDITION THEOREM FOR DERIVATIVE OF LEGENDRE POLYNOMIAL
BRL-1248 N64-28138 20-20

DERMATOLOGY
CF SKIN /BIOL/
DERMATOLOGICAL STUDIES AND CUTANEOUS TOXICITY OF CHEMICAL COMPOUNDS
AMRL-TDR-64-13 N64-18932 11-16

TRACE ELEMENTS IN RADIATION DERMATITES
JPRS-25502 N64-25198 17-16

DERMATOLOGICAL EFFECTS OF AIRCRAFT FUEL AND THERAPY
JPRS-16055 N64-28631 20-16

DESCENT
POWERED-DESCENT TRAJECTORY FOR LUNAR LANDING MISSION OF LUNAR EXCURSION MODULE
NASA-TN-D-2426 N64-27943 20-29

APPROXIMATE TIME OPTIMUM GUIDANCE EQUATIONS FOR PLANETARY ASCENT AND DESCENT TRAJECTORIES AT CONSTANT THRUST FLAT BODY TWO-DIMENSIONAL CASE
NASA-TN-D-2361 N64-28058 20-29

DESIGN
S AMPLIFIER DESIGN
S COMPUTER DESIGN
S EXPERIMENT DESIGN
S FACTORIAL DESIGN
S LENS DESIGN
S LOGICAL DESIGN
S MISSILE DESIGN
S REACTOR DESIGN
S ROCKET ENGINE DESIGN
S SATELLITE DESIGN

DESORPTION
CF SEPARATION
CF SORPTION
THERMAL DESORPTION AND SURFACE DIFFUSION OF CESIUM COATINGS ON TUNGSTEN SUBSTRATE - PULSED-FIELD-EMISSION MICROSCOPY INVESTIGATION
NASA-CR-22 N64-12912 04-25

WORK FUNCTION, AND DESORPTION ENERGY & RATES OF CESIUM COATED REFRACTORY CELLS N64-22985 16-18

DESORPTION & MIGRATION OF STRONTIUM ON TUNGSTEN BY PULSED FIELD EMISSION MICROSCOPY
AD-421552 N64-31698 23-07

DESTRUCTION
CYCLOTRIMETHYLENE TRINITRAMINE FLEXIBLE LINEAR-SHAPED CHARGE FOR COMMAND DESTRUCT SYSTEM OF SATURN S-IV STAGE
NASA-CR-55071 N64-12099 03-30

RELAY SATELLITE DESTRUCTION FAILURE, ANTICIPATED LIFESPAN, AND HISTORY OF TRANSMISSIONS
N64-12391 03-32

MECHANICAL DESTRUCTION OF GELATINS BY ELECTRON PARAMAGNETIC RESONANCE
N64-28037 20-07

DESTRUCTIVE TESTING
CF NONDESTRUCTIVE TESTING
DESTRUCTIVE AND NONDESTRUCTIVE TESTING OF SPERT I-D REACTOR
IDO-16886 N64-13369 04-23

SPERT REACTOR KINETIC BEHAVIOR DURING DESTRUCTIVE AND NONDESTRUCTIVE TESTING
EUR-497.E N64-20873 14-23

DESTRUCTIVE TESTING OF SCALE MODEL SATURN I LAUNCH VEHICLE
NASA-TM-X-53007 N64-22480 15-31

DETECTION
SA SEQUENTIAL DETECTION
SA SIGNAL DETECTION
SA TARGET DISCRIMINATION
CF INSPECTION
GIANT-APERTURE ANTENNAS FOR SPACE COMMUNICATION AND DETECTION
AFCRL-63-51 N64-11760 03-08

FRACTURE TOUGHNESS AND FLAW DETECTION OF HETEROGENEOUS JOINTS N64-11804 03-33

PROBABILITY OF DETECTION AND CORRECT DECISION AMONG ALTERNATIVES FOR PHASE-INCOHERENT RECEPTION
AFCRL-63-374 N64-12192 03-09

METHOD FOR DETECTING WEAK ANTIBODIES - INCREASED SENSITIVITY N64-12771 04-16

PHOTOELECTRIC MILLIMETER WAVE DETECTION IN INDIUM ANTIMONIDE
RADC-TDR-63-502 N64-13789 05-25

AIR-TO-GROUND APPLICATIONS OF VISUAL DETECTION LOBE THEORY N64-15462 07-23

CREATION, PROPAGATION, AND DETECTION OF ALFVEN WAVES IN PARTIALLY IONIZED, LOW DENSITY MEDIUM
AFCRL-63-782, VOL. 1 N64-16063 07-24

PROPAGATION AND DETECTION OF ALFVEN WAVES - MAGNETOHYDRODYNAMICS
AFCRL-63-782, VOL. 3 N64-16065 07-24

DETECTING ELEMENTAL SULFUR IN JET FUELS
FTD-TT-62-1451/1&2&4 N64-16348 08-07

PREDETECTION RECORDING REQUIREMENTS OF SATELLITE CONTROL FACILITY
SSD-TDR-63-361 N64-17897 10-30

VIDEO DETECTION TECHNIQUES FOR MILLIMETER AND SUBMILLIMETER WAVES
RADC-TDR-64-28 N64-17962 10-08

ULTRASONIC INSPECTION OF STRUCTURAL FLAWS IN SHEET STEEL N64-19266 11-17

EFFECT OF REFERENCE DISPLAY ON HUMAN DETECTION PERFORMANCE IN VISUAL VIGILANCE TASK
TR-750-2 N64-20409 13-14

OPTIMUM EXPOSURE CONDITIONS FOR RADIOGRAPHIC DETECTION OF DEFECTS IN GRAPHITE
WADD-TR-61-72, VOL. XVII N64-21019 14-19

HALL-EFFECT DEVICES FOR FLAW DETECTION IN METAL
R-1710 N64-22057 15-18

DETECTION TECHNIQUES FOR LIGHT MODULATED AT MICROWAVE FREQUENCY - FM DEMODULATION SCHEMES

EBL-M670 N64-22115 15-23

RADIOISOTOPIC DETECTION OF MICROBIAL CONTAMINATION PRESENT IN JET FUEL
ADR-09-08A-63.1 N64-22129 15-26

DETECTABILITY OF DISCRETELY MODULATED CARRIERS
SSD-TDR-64-34 N64-22321 15-08

DETECTING PROTEINS IN TRACE AMOUNTS BY J-BAND ANALYSIS
NASA-CR-56520 N64-22780 16-16

DYE METHOD FOR DETECTING TRACE AMOUNTS OF PROTEINS BY J-BAND ABSORPTION TECHNIQUE
NASA-CR-56534 N64-22795 16-07

GAMMA RAY DETECTION EFFICIENCY AND IMAGE RESOLUTION IN SODIUM IODIDE N64-22859 16-23

AEROSPACE VEHICLE DETECTION
AD-433859 N64-23008 16-15

FIELD SPECTROGRAPH FOR HIGH RESOLUTION SPECTRAL ANALYSIS OF ROCKET EXHAUST PLUMES FOR AEROSPACE VEHICLE DETECTION N64-23009 16-15

SODIUM VAPOR AND SCANNING FABRY-PEROT SPECTROMETER FOR AEROSPACE VEHICLE DETECTION N64-23010 16-15

INTERFEROMETRY FOR AEROSPACE VEHICLE DETECTION AND SATELLITE RECOGNITION N64-23011 16-15

DETECTION OF RADIATION FROM OXYGEN RECOMBINATION INDUCED BY SATELLITE PASSAGE FOR AEROSPACE VEHICLE DETECTION N64-23012 16-28

RADAR REFLECTION DETECTION AND MEASUREMENT OF NEAR FIELD OF STYROFOAM CYLINDER N64-24322 17-08

DESIGN OF BANDLIMITED SIGNALS FOR BINARY COMMUNICATION USING SIMPLE CORRELATION DETECTION
TR-400-90 N64-26209 18-08

DETECTION OF WATER IN ATMOSPHERE OF VENUS N64-27154 19-05

EFFECTIVENESS OF USING ENZYMES AS INDICATORS FOR TOXIC SUBSTANCE DETECTION
JPRS-25986 N64-27668 19-16

ADAPTIVE TECHNIQUES FOR OPTIMIZATION OF BINARY DETECTION SYSTEMS
REPT.-22G-2 N64-28146 20-08

DETECTION OF FLASH FROM HYPERVELOCITY IMPACT IN SPACE
ATL-TDR-64-24 N64-29098 21-28

STORED REFERENCE, OPTICAL CORRELATION DETECTOR FOR AUDIOFREQUENCY RANGE
REPT.-5-13-64-9 N64-29746 21-08

COHERENT DETECTION OF RADAR ECHOES OF UNKNOWN DOPPLER SHIFT
RM-4227-PR N64-30120 21-08

EFFECT OF WAVE FRONT DISTORTION ON OPTICAL HETERODYNE DETECTION SYSTEM
TR-118 N64-32759 24-08

TWO-ELECTRODE ELECTROCHEMICAL SENSOR FOR DETECTION OF TRACES OF PROPELLANTS IN AIR
GE/EE/63-19 N64-32946 24-07

RELATIVE NEUTRON ABSORPTION RATES AND X-RADIATION USED FOR INSPECTION OF THICKNESS, DETECTION OF HYDROGEN, BORON, & LITHIUM, AND RADIOGRAPHIC DISCRIMINATION IN HEAVY MATERIALS
ANL-6846 N64-33235 24-23

DETECTOR
SA LIFE DETECTOR
CF INDICATOR
BIBLIOGRAPHY OF LITERATURE OF DETECTION INSTRUMENTS USED TO MONITOR TOXIC GAS CONCENTRATION IN ATMOSPHERE
SID-63-755 N64-10137 01-16

PROCESSES FOR UTILIZATION OF LUNAR RESOURCES - REDUCTION OF SILICATES TO PRODUCE OXYGEN
NASA-CR-52318 N64-10179 01-29

DETECTION INSTRUMENTS FOR TOXIC GASES, VAPORS, AND DUSTS
JPRS-21771 N64-10205 01-16

SOUND SCATTERING OF STEADY STATE PLANE WAVE BY HOLLOW CYLINDER OF ARBITRARY THICKNESS - SUBMARINE DETECTION
RM-223 N64-10538 01-23

MILLIMETER & SUBMILLIMETER RECEIVER & DETECTOR TECHNIQUES
NASA-CR-52685 N64-11104 02-23

PHOTO MAGNETO ELECTRIC STUDY OF SINGLE CRYSTALS OF CADMIUM SULFIDE AND THIN-ROLLED FOILS OF BISMUTH
RADC-TDR-63-117 N64-11888 03-28

THEORETICAL PROBLEMS IN OPERATION OF PHASEMETER ON ULTRAHIGH FREQUENCIES
RSIC-98 N64-12022 03-09

LASER APPLICATIONS - AMPLIFIER, POWER GENERATOR, & DETECTOR FOR COMMUNICATIONS & RADAR SYSTEMS N64-12565 04-25

RADIATION DOSE RECEIVED BY DETECTOR WITH VERTICAL BARRIER BETWEEN IT AND RADIATION FIELD
USNRDL-TR-677 N64-12641 04-23

ALPHA MONITORING SYSTEM WITH SOLID STATE SIGNAL DETECTOR
EUR-429.E N64-13143 04-23

DETECTORS FOR DETERMINING MICROMETEORITE INFLUX RATE IN EARTH ATMOSPHERE
AFCRL-63-663 N64-13258 04-05

TENUOUS PLANETARY ATMOSPHERE DETECTION INSTRUMENTS
NASA-CR-55379 N64-14285 06-23

DETECTOR-ANALYZER FOR STUDYING PROTON AND ION ENERGY DISTRIBUTION IN INTERPLANETARY SPACE AT SATELLITE ALTITUDES
NASA-TN-D-2111 N64-14727 06-24

VACUUM ULTRAVIOLET PHOTOIONIZATION DETECTOR
NASA-RP-32 N64-14858 06-15

COAXIAL AMPLITUDE-INSENSITIVE PHASE-DETECTION SYSTEM - SLOT TRANSMISSION LINE AND SLOT ANTENNA
TR-398 N64-15941 07-08

REACTOR CONTROL DEVICES & SYSTEMS, CAPACITANCE TEMPERATURE SENSOR, FISSION COUNTERS, IONIZATION CHAMBERS, AND NEUTRON DETECTORS
GEMP-270C N64-16001 07-23

RADAR METHOD OF DETERMINING PHASE STATE OF CLOUDS AND PRECIPITATION N64-17340 09-21

HYDROGEN DETECTOR
NASA-CR-55954 N64-17686 09-15

FOUR-DIODE BRIDGE-TYPE PHASE DETECTOR OF CONSTANT COSINE RESPONSE
NASA-TN-D-2269 N64-18082 10-09

ACTIVE VOLUME INCREASE OF LITHIUM DRIFTED GERMANIUM SEMICONDUCTOR DETECTOR
NASA-CR-53389 N64-18291 10-23

CHEMICAL DETECTORS - BIBLIOGRAPHY
LAMS-2378 /VOL. 2/ N64-18397 10-07

DESIGN, DEVELOPMENT, AND CONSTRUCTION OF MICRO-METEORITE DETECTORS USING ACOUSTIC SENSORS
AFCRL-64-98 N64-18647 11-15

OXYGEN DETECTOR WHICH OPERATES BY CHEMISORPTION AND DESORPTION FROM TUNGSTEN FILAMENT IN HIGH VACUUM N64-19500 12-07

TOTAL AND DIFFERENTIAL SOLID ANGLES FOR PROTON RECOIL SOLID STATE NEUTRON DETECTOR

AE-116 N64-19859 12-23

POLARITY COINCIDENCE DETECTOR FOR MEASURING SMALL SIGNAL-TO-NOISE RATIOS
R-178 N64-20153 13-08

LEAD SELENIDE DETECTOR AND REFRIGERATION ASSEMBLY FOR MARINER C PROGRAM
NASA-CR-56173 N64-20739 13-15

SILICON DETECTOR OF THERMAL NEUTRONS
FTD-TT-64-95/162 N64-21970 15-25

DYE METHOD FOR DETECTING TRACE AMOUNTS OF PROTEINS BY J-BAND ABSORPTION TECHNIQUE
NASA-CR-56534 N64-22795 16-07

DETECTOR ARRAY FOR COSMIC RAY INVESTIGATIONS OF PRODUCTION, NATURE, AND INTERACTION OF HIGH ENERGY PARTICLES
AROD-2427-1 N64-23138 16-23

THERMOCHEMICAL GAS ANALYZER FOR CONTINUOUS DETECTION OF OXYGEN
FTD-TT-62-1554/1&2&4 N64-23445 16-15

RADAR REFLECTION DETECTION AND MEASUREMENT OF NEAR FIELD OF STYROFOAM CYLINDER N64-24322 17-08

RADIANT ENERGY DETECTORS FOR HOMING DEVICES
N64-24601 17-15

DETECTION SYSTEM FOR MONITORING AIR FOR TOXIC COMPOUNDS IN CLOSED ECOLOGICAL SYSTEM
N64-24625 17-15

RESOLUTION CAPABILITIES OF OFF-AXIS DETECTOR ELEMENTS IN PARABOLIC OPTICAL SYSTEMS
REPT.-2900-475-T N64-24884 17-06

LOGICAL DESIGN AND CONSTRUCTION OF TRANSISTORIZED DIGITAL COMPUTER FOR MICROMETEORITE DETECTION SYSTEMS
AFCRL-64-9A, APPEND. N64-24986 17-09

PHOTOEMITTERS, PHOTODETECTORS, AND MICROCIRCUITS FOR OPTICAL INTERCONNECTION STUDY
OPR-3 N64-25344 17-25

GERMANIUM BOLOMETER DETECTOR OF MILLIMETER WAVELENGTH THERMAL ENERGY N64-25626 17-15

PHOTOMULTIPLIER AS DETECTOR IN DIRECT OPTICAL SYSTEM
EG&G-B-2764 N64-25700 17-09

APPLICATION OF STATISTICAL DECISION THEORY TO DESIGN OF AUTOMATIC RADAR DETECTOR SYSTEMS - DATA QUANTIZATION FOR SEQUENTIAL DETECTION
NEL-1218 N64-25961 18-20

USE OF HELIUM MASS SPECTROMETER LEAK DETECTOR
NASA-TM-X-978 N64-26091 18-15

REDUCTION OF DATA FROM MARINER II MAGNETOMETER AND DESIGN OF ELECTRONIC PULSE DETECTION CIRCUITS
NASA-GR-58043 N64-26364 18-29

X-BAND SOLID STATE DETECTOR AMPLIFIER
QPR-2 N64-26511 18-09

SILICON PHOTODIODE VACUUM ULTRAVIOLET DETECTOR
NASA-CR-58055 N64-26805 18-15

OPERATION OF CAPACITOR TYPE MICROMETEOROID DETECTOR
NASA-CR-56316 N64-27388 19-15

PHOTOSENSITIVE IMAGE DETECTOR TO RESPOND TO MODULATION AT MICROWAVE FREQUENCY
RADC-TDR-64-221 N64-27457 19-15

RATIO DETECTOR ARRAY SYSTEM - SWITCHING CIRCUITS OPERATING AT LOW SIGNAL TO NOISE RATIO
NASA-CR-56840 N64-27973 20-09

PHOTOMAGNETOELECTRIC DETECTOR OF CADMIUM SULFIDE SINGLE CRYSTALS AND TRANSPORT PROPERTIES OF ROLLED THIN BISMUTH FOIL
RADC-TDR-64-349 N64-28560 20-23

THRESHOLD SELECTION AND PERFORMANCE EVALUATION OF DETECTOR FOR WHITE, BANDLIMITED, STATIONARY, GAUSSIAN SIGNALS IN ADDITIVE, WHITE, BANDLIMITED, STATIONARY, GAUSSIAN NOISE
NASA-CR-58349 N64-28842 20-08

DETECTOR FOR MEASURING NEUTRON DOSE RATE INDEPENDENTLY OF NEUTRON ENERGY
AE-132 N64-28858 20-15

PHYSICAL PROPERTIES OF PHOTODETECTORS
NOLC-602 N64-28903 20-25

THIN FILM SENSORS FOR DETECTION OF WATER IN LIQUID NITROGEN TETROXIDE
RTD-TDR-63-1079 N64-29311 21-15

CIRCUIT SENSITIVITY FOR DIRECT DETECTION OF AMPLITUDE FLUCTUATION OF MICROWAVE GENERATORS
N64-29468 21-09

COLLIMATION SYSTEM, DETECTOR, AND MONOCHROMATOR FOR SMALL ANGLE X-RAY SCATTERING EXPERIMENTS
TR-3 N64-29683 21-23

PYROELECTRIC CURRENT SENSITIVITY OF TRIGLYCINE SULFATE IN RESPONSE TO ELECTROMAGNETIC RADIATION
NOLC-601 N64-29856 21-23

X-BAND SOLID STATE DETECTOR/AMPLIFIER
QPR-3 N64-30167 21-09

SENSITIVITY OF SCANNING FABRY-PEROT INTERFEROMETER, SPECTROGRAPH DESIGN, AND ION RECOMBINATION STUDIES - AEROSPACE VEHICLE DETECTOR
AD-602812 N64-30186 21-15

APPLICATION OF NUCLEAR RESONANCE SENSING TO MEASUREMENT OF MECHANICAL MOTION
R63SD317 N64-31158 22-23

ENCODER EVALUATION - OSCILLOSCOPE AND OSCILLOGRAPH COMBINED WITH LOGIC CIRCUITS TO CHECK PHASING AND DETECT NOISE N64-31492 23-15

MARK II DIGITAL CORRELATOR AS ACOUSTIC SIGNAL DETECTOR N64-32266 23-23

P-N JUNCTION PHOTODETECTORS USING INTERNAL PARAMETRIC AMPLIFIERS
SRRC-RR-64-49 N64-32271 23-09

PHOTOGRAPHIC EMULSION RESPONSE TO FAST NEUTRONS FOR NEUTRON RADIOGRAPHY
USNRDL-TR-766 N64-32871 24-23

NEUTRON CROSS SECTIONS FOR POLYETHYLENE SHIELDING AND FOIL DETECTORS
KN-684-64-13 N64-33244 24-23

DETECTION TECHNIQUES FOR TENUOUS PLANETARY ATMOSPHERES - CHEMISORPTION DETECTORS FOR HYDROGEN AND WATER VAPOR
NASA-CR-59285 N64-33336 24-07

RIOMETER AND PHASE-SOUNDER FOR DETECTION OF NUCLEAR EXPLOSIONS IN DEEP SPACE - VELA PROJECT
AD-444659 N64-33365 24-12

MICROWAVE DETECTOR FOR WAVE-PLASMA INTERACTION
R-8-63-2 N64-33657 24-24

IONIZATION DETECTORS IN GAS CHROMATOGRAPHY SYSTEMS ANALYZING CHEMICAL COMPONENTS OF LUNAR SURFACE
NASA-CR-59301 N64-33683 24-11

DOPING OF INDIUM ANTIMONIDE & GERMANIUM DETECTORS
NRL-MEMO-1550 N64-33730 24-25

SUPERCONDUCTING NUCLEAR PARTICLE DETECTOR
AI-64-159 N64-33744 24-11

NEUTRON THRESHOLD DETECTOR SYSTEM AND GAMMA DOSIMETRY TECHNIQUE TO MEASURE RADIATION ENVIRONMENT OF REACTOR
NDL-TR-59 N64-33826 24-13

LEAKAGE DETECTORS AND COMBUSTION FACTORS IN HYDROGEN SAFETY PRACTICES
BR-3 N64-33829 24-26

RADIATION HAZARDS CONTROL - SHIELDING, NEUTRON AND GAMMA RADIATION SURVEY INSTRUMENTS, AND DOSIMETRY METHODS
UCRL-12004 N64-33852 24-10

RADAR DETECTION SYSTEM FOR DELINEATING METEOR RADIANTS N64-33919 24-08

DETERGENT
CF SOAP
DETERGENT SOLUBILITY AND EFFICIENCY
CCL-149 N64-12364 03-19

DETERGENCY STUDY - LIGHT SCATTERING MEASUREMENTS OF MICELLAR CHARACTERISTICS OF ANIONIC AND NONIONIC SURFACTANT MIXTURES
CCL-163 N64-32446 23-07

DETERMINANT
FIRST ORDER DENSITY MATRIX FOR SPIN-PROJECTED SINGLE DETERMINANT - ELECTRON ORBIT
TECH. NOTE-104 N64-17847 10-20

DETONATION
SA FIRING
CF EXPLOSION
ONE-DIMENSIONAL NUMERICAL TREATMENT OF DEFLAGRATION TO DETONATION TRANSITION OF DENSE HETEROGENEOUS EXPLOSIVES
NOLTR-63-197 N64-11175 02-19

ANALYSES OF EXPLOSIONS, DETONATIONS, FLAMMABILITY LIMITS, GAS IGNITION, HETEROGENEOUS BURNING, AND EXPLOSION PREVENTION - HIGH ENERGY REACTIONS
AGARDOGRAPH-31 N64-12125 03-26

CASTING TECHNIQUES AND DETONATION TESTS OF TNT SPHERES
SES-TP-288 N64-13911 05-26

COMPUTER PROGRAM FOR CALCULATING DETONATION PROPERTIES OF HIGH EXPLOSIVES - CARBON-HYDROGEN-NITROGEN-OXYGEN SYSTEMS
NOLTR-63-216 N64-14106 05-26

INDUCTION TIMES IN ONE-DIMENSIONAL DETONATION
FLIGHT SCI. LAB. REPT.-87 N64-14129 05-26

LOW VELOCITY DETONATION IN NITROGLYCERIN-ETHYLENE GLYCOL DINITRATE
AD-428376 N64-14465 06-26

DETERMINATION OF SHOCK WAVE SENSITIVITY BY DETONATION TRANSFER FROM EXPLOSIVES THROUGH COPPER BARRIERS TO EXPLOSIVES
RSIC-122 N64-16041 07-26

MECHANISM OF DECOMPOSITION, COMBUSTION, AND DETONATION OF SOLIDS
AD-431563 N64-16892 08-26

HIGH SPEED CHEMICAL REACTIONS /DETONATIONS/ IN OZONE - SQUID PROJECT N64-18859 11-23

HYDRODYNAMIC THEORY OF DETONATION OF CONDENSED EXPLOSIVES
FTD-TT-63-1112/162 N64-19759 12-26

OPTICAL DETERMINATION OF DETONATION VELOCITY IN SHORT CHARGES
NOLTR-64-23 N64-20846 14-26

PYROTECHNIC DELAY DEVICES FOR LOW ENERGY DETONATING CORD SYSTEMS
M64-26-1 N64-21570 15-26

ELECTROMAGNETIC MONITORING SYSTEM FOR RECORDING ELECTROMAGNETIC SIGNALS RESULTING FROM DETONATIONS
EGGG-B-2703 N64-22528 15-08

SEISMIC WAVE PRODUCED BY EXPLOSIVE DETONATION IN ROCK CAVITY
BM-RI-6472 N64-22800 16-12

SELF-IGNITION FLAME AND DETONATION GASES
NASA-TT-F-125 N64-25875 18-26

EXPLOSION SAFETY PRECAUTIONS AND STANDARDS FOR HYDROGEN, HYDROGEN DETECTOR, AND DETONATION IN HYDROGEN-OXYGEN MIXTURES N64-26038 18-19

SHOCK SENSITIVITY OF LIQUID EXPLOSIVES
PR-10 N64-26485 18-26

FALLOUT MEASUREMENTS USING PLUTONIUM AND URANIUM TRACERS IN HIGH EXPLOSIVE DETONATIONS UNDER FIFTEEN FOOT GRAVEL COVERINGS
SC-R-64-127 N64-26696 18-23

EXPLOSIVE COMBUSTION, PULSATING SHOCK-INDUCED COMBUSTION, AND RELATED STUDIES IN REACTION KINETICS, IGNITION DELAYS, AND SHOCK WAVES
ATD-P-64-49 N64-27342 19-26

SHOCK WAVE PROPAGATION AND TRANSITION TO DETONATION IN EXPLOSIVES
BRL-1250 N64-28153 20-11

COMPUTATION OF GAS FLOW BEHIND CONVERGING DETONATION FRONT OF CYLINDRICAL OR SPHERICAL GEOMETRY
EUR-1849.E N64-28418 20-11

MECHANISMS OF DECONPOSITION, COMBUSTION, AND DETONATION OF SOLIDS
REPT.-0372-01-17 N64-29431 21-26

TRANSITION FROM DEFLAGRATION TO DETONATION - CRITICAL CONDITION IN TIME-DEPENDENT THERMAL EXPLOSIONS
NOLTR-63-282 N64-30594 22-13

HIGH EXPLOSIVE DETONATION FOR CALIBRATION OF EARTHQUAKE AND AFTERSHOCK RECORDING INSTRUMENTS - SEISMOLOGY
AFCRL-64-659 N64-33308 24-12

INITIATION OF DETONATION BY IMPACT OF NITROMETHANE JET ON PLEXIGLASS, MAGNESIUM, AND ALUMINUM
QR-2 N64-33929 24-26

TRANSITION FROM BURNING TO DETONATION IN PENTOLITE EXPLOSIVE - CONFINEMENT, PRESSURE, AND SHOCK SENSITIVITY
NOLTR-64-138 N64-33967 24-26

SHOCK STIMULUS EFFECT ON GROWTH & STABILITY IN INITIATION MECHANISMS OF LOW VELOCITY DETONATIONS IN LIQUID EXPLOSIVES
AD-443796 N64-33978 24-26

DETONATION WAVE
STEADY DETONATION WAVES IN OZONE - CHEMICAL KINETICS IN SQUID PROJECT N64-13484 05-24

VELOCITY DECREMENT OF DETONATION WAVE IN GASEOUS EXPLOSIVE BOUNDED BY INERT GASEOUS MEDIUM
ARDD-3559-1 N64-14323 06-26

FORMATION OF DETONATION WAVES IN LIQUID HYDROGEN-OXYGEN MIXTURE DURING COMBUSTION
NASA-TN-D-2256 N64-17751 09-26

INITIATION MECHANISMS OF DETONATION WAVES IN EXPLOSIVES AND PROPELLANTS N64-18495 10-26

HIGH SPEED IMAGE CONVERTER CAMERA ELUCIDATION OF FORMATION OF DETONATION WAVES IN STOICHIOMETRIC MIXTURE OF HYDROGEN AND OXYGEN
NASA-TN-D-2242 N64-18732 11-26

OSCILLATION FREQUENCY, STABILITY, AND STRUCTURE OF DETONATION WAVES USING VON NEUMANN THEOREM N64-19709 12-26

SPINNING DETONATION STUDY WITH PIEZOELECTRIC GAUGES - STRUCTURE OF BREAKS N64-23686 16-13

DETONATION WAVE PHENOMENA USING DUAL EXPLOSIVE CHARGES SEPARATED BY METAL BARRIER
NAVWEPS-8507 N64-24330 17-23

FORMATION OF DETONATION WAVES IN COMBUSTIBLE GASEOUS MIXTURES

WSS/CI PAPER-64-15 N64-24378 17-26

VELOCITY MEASUREMENT OF DETONATION WAVE IN GASEOUS OZONE
UCB-3-P N64-25792 17-26

GRENADE DETONATION ACOUSTIC WAVE PROPAGATION IN UPPER ATMOSPHERE N64-32255 23-12

DETONATION WAVE STUDY FOR APPLICATION TO CHEMICAL PROPULSION SYSTEMS, NUCLEAR PROPULSION, AND PULSED PLASMA ACCELERATORS
AD-421130 N64-32873 24-27

DETONATOR
CF EXPLOSIVE DEVICE
MEASURING EFFICIENCY OF DETONATOR BY PLATE-DENT TESTS
CARDE-TR-476/63 N64-26636 18-26

DEUTERIDE
LITHIUM DEUTERIDE-COATED LITHIUM WIRE
RFP-628 N64-31328 22-17

DEUTERIUM
CF HYDROGEN
CF ISOTOPE
LOW-ENERGY NEGATIVE PION INTERACTIONS IN DEUTERIUM
UCRL-10977 N64-11475 03-23

ATOMIZATION OF STAINLESS STEEL AND TANTALUM BY IONS OF DEUTERIUM AND KRYPTON
FTD-MT-63-6/1&2&3&4 N64-14373 06-23

ISOTOPIC PHASE SEPARATION IN SOLID MOLECULAR HYDROGEN AND DEUTERIUM
TR-10 N64-14766 06-23

VISCOSITY OF HYDROGEN, DEUTERIUM, METHANE, AND CARBON MONOXIDE - SQUID PROJECT
BRN-10-P N64-15762 07-19

SLOW NEUTRON SCATTERING CROSS SECTIONS OF MOLECULAR HYDROGEN AND DEUTERIUM
NASA-CR-54001 N64-18279 10-23

INFRARED ABSORPTION OF HYDROGEN AND DEUTERIUM IONS IN CALCIUM FLUORIDE
AFCRL-64-284 N64-18878 11-25

PHOTOTYPE SUPER POWER DEUTERIUM THYRATRON
EG&G-B-2789 N64-24094 16-19

FABRICATION AND TESTING OF SUPER POWER DEUTERIUM THYRATRON
EG&G-B-2839 N64-27711 19-09

NUCLEAR MAGNETIC RESONANCE IN SOLID HYDROGEN AND DEUTERIUM AT CRYOGENIC TEMPERATURES AND HIGH PRESSURES
TR-3 N64-28622 20-25

INDUCED INFRARED ABSORPTION OF DILUTE SOLUTIONS OF HYDROGEN AND DEUTERIUM IN LIQUID ARGON
JPL-TR-32-586 N64-33763 24-23

DEUTERIUM FLUORIDE
FLAME REACTOR PRODUCTION OF DEUTERIUM FLUORIDE BY HOT NICKEL WIRE IGNITION OF PURE GASES
K-1585 N64-14713 06-07

DEUTERIUM OXIDE
HEAVY-WATER-MODERATED NATURAL URANIUM ROD LATTICE PARAMETERS
DP-737 N64-12117 03-23

TECHNOLOGY OF DEUTERIUM OXIDE MODERATED POWER REACTOR WITH URANIUM-PLUTONIUM OR THORIUM-URANIUM FUEL CELL
DP-864 N64-15771 07-23

EFFECT OF DEUTERIUM OXIDE ON PROPERTIES OF DESOXYRIBONUCLEIC ACID AND PROTEINS N64-18412 10-16

CALCULATION OF DEUTERIUM OXIDE MODERATED ORGANIC COOLED NATURAL URANIUM LATTICES
EUR-897.E N64-20879 14-23

THERMAL CONDUCTIVITIES OF WATER VAPOR, DEUTERIUM OXIDE VAPOR AND EQUIMOLAR MIXTURE OF WATER AND DEUTERIUM OXIDE
NASA-RP-176 N64-21302 14-13

INTERNAL FRICTION OF ICE AND FROZEN HEAVY WATER N64-23898 16-13

THERMAL DIFFUSION, ABSORPTION, AND TRANSPORT NEUTRON CROSS SECTIONS FOR WATER, HEAVY WATER, AND BORON
AECL-2072 N64-33266 24-23

DEUTERON
CF CHARGED PARTICLE
CF ELEMENTARY PARTICLE
DEUTERON IRRADIATION EFFECTS ON ELECTRICAL RESISTIVITY AND ELASTIC MODULUS OF TUNGSTEN
AFCRL-63-183 N64-13034 04-23

ALPHA PARTICLE ENERGY SPECTRA FROM DEUTERON-ALPHA REACTIONS ON LITHIUM, BERYLLIUM, CARBON, NITROGEN, & OXYGEN USING 24-MEV DEUTERONS
UCRL-10993 N64-13217 04-23

URANIUM-235 PRODUCTION BY THERMAL MOTION OF DEUTERON IN GASEOUS FISSION REACTOR
RM-3851-AEC N64-15673 07-23

THEORY OF DEUTERON PHOTODISINTEGRATION N64-16917 09-23

QUASIFREE PROTON-DEUTERON INELASTIC SCATTERING CORRECTIONS NEAR 210-MEV
UR-875-21 N64-17261 09-23

DISTORTED WAVE ANALYSIS OF BORON 22-CARBON 12 DEUTRON AND NEUTRON REACTION - ANGULAR DISTRIBUTION N64-18163 10-23

ELASTIC DEUTERON REACTIONS IN IMPULSE APPROXIMATION
TH-46 N64-22043 15-23

CHEMICAL REACTION OF HELIUM WITH DEUTERON
FTD-TT-63-991/1&2 N64-22140 15-24

NUCLEAR SYNTHESIS REACTION USING COLLIDING BEAMS OF DEUTERONS AND TRITONS
FTD-TT-62-1901/1&2&4 N64-22409 15-24

FINAL STATE WAVE FUNCTIONS OF DEUTERON PLUS NEUTRON OR DINEUTRON PLUS PROTON IN NUCLEAR REACTION
RR-TR-64-4 N64-25217 17-23

COMPARISON OF PROTON AND DEUTERON ACCELERATION IN LINEAR ACCELERATOR
CERN-64-22 N64-25522 17-23

ANALYSIS OF PION-PION REACTION PRODUCING DEUTERON AND VECTOR MESON - NUCLEAR ELECTROMAGNETIC REACTION
TH-56 N64-26046 18-23

PHOTODISINTEGRATION OF DEUTERON BY POLARIZED PHOTON BEAM
HEPL-329 N64-32058 23-23

HIGHER PRODUCTION RATE FORMULAS FOR ANTIDEUTERONS
CERN-64-40 N64-33587 24-23

DEVIATION
S PHASE DEVIATION

DEVICE
S CARTRIDGE ACTUATED DEVICE
S COMMUNICATIONS DEVICE
S CONTROL DEVICE
S DRAG DEVICE
S ELECTRONIC INSPECTION DEVICE
S ERROR CORRECTING DEVICE
S EXPLOSIVE DEVICE
S FEEDING DEVICE
S HOMING DEVICE
S INFLATABLE DEVICE
S LAUNCHING DEVICE
S PROPELLANT ACTUATED DEVICE
S RECOVERY DEVICE

S RELEASE DEVICE
S RESISTANCE DEVICE
S SAFETY DEVICE
S SAMPLING DEVICE
S SEMICONDUCTOR DEVICE
S SOLID STATE DEVICE
S STORAGE DEVICE
S TRACKER DEVICE

DEWETTING
S WETTING

DIAGNOSIS
CF FUNCTION TEST
COMPUTER PROGRAMS FOR DIAGNOSIS OF HEART AILMENTS
N64-11531 03-20

POSSIBLE DIAGNOSTIC TECHNIQUE FOR DETERMINING BODY REACTION TO SMALL DOSES OF IONIZING RADIATION BY OBSERVING PHOSPHINE THRESHOLD OF RETINA
N64-15679 07-16

ANALYTICAL METHODS OF ELECTROENCEPHALOGRAPHY FOR MEDICAL DIAGNOSIS
JPRS-23590 N64-16668 08-16

RADIATION MEDICINE - RADIATION EFFECTS, LIPID METABOLISM, IMMUNOLOGY, AND DIAGNOSIS
ORINS-43 N64-16945 09-16

MEDICAL ELECTRONIC APPARATUS TO AID IN RECORDING DIAGNOSIS N64-23444 16-16

COMPUTER SIMULATION OF HUMAN PHYSIOLOGY FOR DIAGNOSIS OF HEART MALFUNCTION N64-23698 16-16

DIAGNOSIS OF DYNAMIC MODEL FLUTTER RESPONSE USING TIME CORRELATION TECHNIQUES N64-29260 21-33

ELECTRONIC EQUIPMENT FOR CARDIOVASCULAR DIAGNOSIS
N64-30239 22-16

EVALUATION OF AUTOMATED HYPOTHESIS AIDS IN MULTIMAN-MACHINE SYSTEMS TO ASSESS OR DIAGNOSE THREATS - BAYES THEOREM
AMRL-TDR-64-51 N64-33907 24-14

DIAGRAM
S CONSTITUTIONAL DIAGRAM
S FEYNMAN DIAGRAM
S GRAPH
S MOLLIER DIAGRAM
S PHASE DIAGRAM
S STRESS-STRAIN DIAGRAM

DIAMAGNETISM
DIAMAGNETIC PERPENDICULAR TEMPERATURE MEASUREMENT OF HELIUM DISCHARGE IN STELLARATOR
MATT-278 N64-28420 20-24

DIAMANT LAUNCH VEHICLE
EUROPEAN SPACE PROGRAM - ENVIRONMENTAL CONDITIONS OF SPACE VEHICLE FROM MANUFACTURE TO ORBITAL LAUNCH - DIAMANT AND ELDO LAUNCHERS
NEKD-2 N64-31350 23-10

DIAMOND
CF ABRASIVE
SURFACE TOPOGRAPHY OF SINGLE CRYSTALS OF FACE-CENTERED-CUBIC, BODY-CENTERED-CUBIC, SODIUM CHLORIDE, DIAMOND, AND ZINC BLENDE STRUCTURES
NASA-TN-D-2275 N64-18960 11-25

ORIGIN OF DIAMONDS IN UREILITES
NASA-RP-204 N64-24084 16-19

ORIGIN OF DIAMONDS IN UREILITES
NASA-RP-204 N64-24084 16-19

OPTICAL STUDIES OF DIAMONDS IN CANYON DIABLO METEORITE AND NOVO UREI ACHONDRITE
N64-25738 17-12

OPTICAL STUDIES OF DIAMONDS IN CANYON DIABLO METEORITE AND NOVO UREI ACHONDRITE
N64-25738 17-12

ABSOLUTE REFLECTION SPECTRUM OF TYPE IIA DIAMOND MEASURED BY DISPERSION TECHNIQUES TO OBTAIN OPTICAL PARAMETERS
NASA-RP-256 N64-26077 18-07

DIAPHRAGM
CF MEMBRANE
TRIPLE-DIAPHRAGM TYPE SHOCK TUNNEL DRIVEN BY COMPRESSED AIR
CP-1 N64-15985 07-10

RESPIRATORY PHYSIOLOGY OF ABDOMINAL MUSCLE AND DIAPHRAGM IN PRESSURE BREATHING
N64-17929 10-16

DIAPHRAGMS FOR SULFATE CYCLE ELECTROLYTIC CELL
NRL-5995 N64-23978 16-06

RADIAL DIAPHRAGM SEPARATED INJECTION METHOD FOR VARIABLE THRUST LIQUID ROCKET ENGINES WITH CONSTANT MIXTURE RATIO
AGRR-TB-11 N64-30468 22-27

EFFECT OF NEUROMUSCULAR BLOCKING AGENT ON DIAPHRAGM TISSUE OF RAT
AD-439674 N64-30538 22-16

DIATOMIC MOLECULE
EXACT EXPANSION OF ELECTRONIC ENERGY OF ONE-ELECTRON DIATOMIC MOLECULES IN POWERS OF INTERNUCLEAR SEPARATION
NASA-CR-52609 N64-11118 02-23

DISSOCIATION RATE AND RECOMBINATION OF DIATOMIC MOLECULES
AD-429188 N64-15957 07-23

COLLISION-INDUCED DISSOCIATION RATES OF DIATOMIC AND TRIATOMIC MOLECULES
NASA-CR-53345 N64-17822 09-23

WAVE FUNCTION OF DIATOMIC MOLECULES EXPANDED IN SERIES OF ORBITAL ANGULAR MOMENTUM EIGENFUNCTIONS
NASA-TM-X-51666 N64-20589 13-23

POTENTIAL ENERGY CURVES FOR ELECTRONIC STATES OF DIATOMIC MOLECULES
AD-438051 N64-25641 17-23

QUANTUM MECHANICAL STUDY OF DIATOMIC MOLECULES
NASA-TN-D-2363 N64-25713 17-23

APPLICATION OF MOLECULAR ORBITALS TO MULTI-ATOMIC SYSTEMS - ELECTRONIC WAVE FUNCTIONS FOR DIATOMIC BERYLLIUM AND CARBON
AD-435425 N64-27293 19-23

APPLICATION OF MOLECULAR ORBITALS TO MULTI-ATOMIC SYSTEMS - INTERACTION BETWEEN STABLE MOLECULES AND ATOMS, AND SIMPLE DIATOMIC SYSTEMS
N64-27294 19-23

IMPROVEMENT OF ELECTRONIC WAVE FUNCTION FOR DIATOMIC BERYLLIUM BY CONFIGURATION INTERACTION
N64-27295 19-23

IMPROVEMENT IN ELECTRONIC WAVE FUNCTION FOR DIATOMIC CARBON BY CONFIGURATION INTERACTION
N64-27296 19-23

DISSOCIATION ENERGIES OF DIATOMIC MOLECULES OF TRANSITION ELEMENTS - NICKEL
AMRA-TR-64-11 N64-28669 20-07

CALCULATION OF OPTICAL TRANSITION /ELECTRONIC AND VIBRATIONAL/ PROBABILITIES FOR ATOMS AND DIATOMIC MOLECULES N64-29053 21-23

SPECTRUM OF DIATOMIC HELIUM MOLECULE
N64-30307 22-23

NONADIABATIC THEORY FOR DIATOMIC MOLECULES AND APPLICATION TO HYDROGEN MOLECULE
N64-30309 22-23

RYDBERG STATES OF HOMOPOLAR DIATOMIC MOLECULES
N64-30310 22-23

TWO-CENTER INTEGRALS FOR CALCULATION OF DIATOMIC MOLECULAR STRUCTURES N64-30314 22-23

WEAK INTERACTION MODEL FOR GAS PHASE REACTION BETWEEN DIATOMIC MOLECULES AND INERT GAS
TN-6 N64-31297 22-07

ELECTRONIC STRUCTURE OF DIATOMIC MOLECULES USING HOMONUCLEAR AND HETERONUCLEAR DIATOMIC SELF-CONSISTENT FIELD /SCF/ PROGRAMS
QSR-20 N64-32554 23-23

DIBORIDE
MIXED METAL DIBORIDES OF TITANIUM-VANADIUM, TITANIUM-NIOBIUM, AND TITANIUM-TANTALUM
BM-RI-6407 N64-17715 09-19

SINGLE CRYSTAL AND POLYCRYSTALLINE TITANIUM DIBORIDE - MICROSTRUCTURE AND MICROHARDNESS
ML-TDR-64-32 N64-21471 14-25

ELECTROCHEMICAL OXIDATION OF TITANIUM DIBORIDE
NASA-TN-D-2410 N64-27093 19-07

DICARBOXYLIC ACID
HYDROLYSIS & SYNTHESIS OF TETRAZINEDICARBOXYLIC ACID AND BENZALHYDRAZINOOXALIC ACID
RSIC-95 N64-12604 04-07

DICHLOROETHYLENE
ULTRAVIOLET ABSORPTION SPECTRUM OF TETROL-ALDEHYDE - MOLECULAR ORBITAL THEORY OF DICHLORO-ETHYLENES - MICROWAVE SPECTROSCOPY
UCRL-11229 N64-18995 11-23

DICTIONARY
GLOSSARY OF TERMS USED IN SPACE EXPLORATION
NASA-TM-X-51299 N64-12087 03-01

DIE
CF MACHINE TOOL
ELECTROSLAG BUILD-UP OF FORGING DIES
JPRS-24523 N64-20013 13-17

DIE-FORGING UNDER PRESSURE
FTD-TT-63-567/162 N64-21950 15-17

STABLE SHAPE OF LOOSE MEDIUM NEAR RIGID DIE
N64-28480 20-33

ALLEVIATION OF DIE WELDING DURING PIANO WIRE DRAWING BY PICKLING IN DILUTE NITRIC ACID SOLUTION
NOTS-TP-3636 N64-32960 24-17

MATERIALS AND TECHNIQUES OF CLOSED DIE FORGING SYSTEM
IITRI-B220-32 N64-33549 24-17

DIELECTRIC CONSTANT
ELECTROLYTIC PREPARATION OF HIGH DIELECTRIC CONSTANT TITANIUM OXIDE FILMS
NASA-CR-52190 N64-10096 01-09

DEPENDENCE OF DIELECTRIC CONSTANT & POLARIZATION OF TWO-COMPONENT ORGANIC LIQUID ON MOLECULAR INTERACTION
JPRS-17841 N64-10725 02-23

DIELECTRIC CONSTANT AND LOSS MEASUREMENTS ON HIGH TEMPERATURE MATERIALS
MIT-TR-182 N64-12814 04-09

HIGH TEMPERATURE DIELECTRIC CONSTANT OF POTASSIUM BROMIDE
TR-7 N64-13963 05-19

TABLES OF STATIC DIELECTRIC CONSTANTS, DIPOLE MOMENTS, AND DIELECTRIC RELAXATION TIMES FOR PURE SOLIDS AND LIQUIDS N64-14184 06-23

CONDUCTION OF HALIDES, SULFIDES, ARSENIDES, AND SOLID ORGANIC COMPOUNDS - DIELECTRIC CONSTANT N64-14186 06-25

MOLECULAR RELAXATION IN POLY-2-FLUORO-5-METHYL-STYRENE STUDIES USING DIELECTRIC CONSTANT AND LOSS MEASUREMENTS
RAE-TRANS-1057 N64-17251 09-09

PRODUCTION OF HIGH PURITY PLASTICS BY RADIATION POLYMERIZATION AND COMPARISON OF DIELECTRIC PROPERTIES WITH POLYMERS FORMED BY CHEMICAL CATALYTIC METHODS
BMI-1678 N64-27076 19-07

EFFECT OF LIQUIDS WITH HIGH DIELECTRIC CONSTANT ON SIZE AND COST OF CAPACITOR BANK N64-27106 19-04

COMPLEX DIELECTRIC CONSTANT OF MAGNETOACTIVE PLASMA AT LOW TEMPERATURE N64-27155 19-24

RADIANT ENERGY CONVERSION USING THIN DIELECTRIC FILMS
AIAA PAPER-64-729 N64-28408 20-04

DIELECTRIC PROPERTIES OF ELECTRICAL INSULATING MATERIALS AT VERY LOW FREQUENCIES N64-28518 20-07

MOLECULAR MOTIONS IN SOLID POLYMERS BY DIELECTRIC MEASUREMENTS N64-28519 20-19

SINGLE CRYSTAL GROWTH, AND DETERMINATION OF THERMAL AND DIELECTRIC PROPERTIES OF BERYLLIUM OXIDE FOR USE IN MICROELECTRONICS
NASA-CR-58527 N64-28843 20-23

LONGITUDINAL DIELECTRIC CONSTANT OF FULLY IONIZED PLASMA
LP-31 N64-30549 22-24

CYLINDRICAL INHOMOGENEITY IN RECTANGULAR WAVEGUIDE N64-31356 23-09

RESONANT MODES AND DIELECTRIC CONSTANTS OF LARGE RUBY RODS IN CYLINDRICAL CAVITIES
PIBMRI-1219-64 N64-32269 23-23

MACROSCOPIC WAVEGUIDE MEDIUM FOR LASER SYSTEM COMPONENTS - CHEMICAL DIFFUSION FOR CONTROL OF DIELECTRIC CONSTANT
NASA-CR-58999 N64-33168 24-23

DIELECTRIC MATERIAL
SA CERAMICS
DYADIC GREEN FUNCTION FOR RADIALLY INHOMOGENEOUS SPHERICAL DIELECTRIC MEDIUM
USEC 82-212 N64-11460 03-20

COMPUTER CALCULATION OF CHARACTERISTICS OF CYLINDRICAL DIELECTRIC WAVEGUIDE MODE PROPAGATION
AFCRL-63-304 N64-12231 03-09

PROPAGATION OF H-WAVES ON ANISOTROPIC DIELECTRIC SLAB
AFCRL-62-776 N64-13775 05-23

THERMALLY STABLE CARBORANE SILOXANE MATERIALS USED AS EMBEDDING COMPOUNDS AND ELASTOMERS - DIELECTRIC MATERIALS
RMD-5038-Q1 N64-19801 12-19

DIELECTRIC ELEMENTS FOR SATELLITE COMMUNICATIONS ANTENNA ARRAYS AND FEED SYSTEMS
AD-429052 N64-20402 13-09

SPACE ENVIRONMENT AND HIGH FREQUENCY EFFECTS ON BREAKDOWN STRENGTHS OF DIELECTRIC MATERIALS
NASA-CR-56034 N64-20605 13-13

EFFECT OF COMPOSITION, HEAT, AND ELECTROLYTIC TREATMENT ON DIELECTRIC PROPERTIES OF STEATITE CERAMICS
FTD-TT-62-1800/1&2&4 N64-21926 15-19

RELAXATION PROCESSES IN DIELECTRICS AND SEMICONDUCTORS
FTD-TT-63-3/1&2&4 N64-23412 16-09

DIELECTRIC PROPERTIES OF MATERIALS FOR USE IN MICROWAVE APPARATUS N64-24318 17-25

FIELD EQUATIONS, JUMP CONDITIONS, AND CONSTITUTIVE EQUATIONS OF POLAR ELASTIC DIELECTRIC SUBJECT TO DEFORMATIONS AND ELECTROMAGNETIC FIELDS
TR-25 N64-24389 17-25

DISCONTINUITY PROBLEM IN CIRCULAR WAVEGUIDE CONTAINING TWO DIELECTRICS N64-24670 17-08

OPTICAL PROPERTIES OF THIN FILMS OF METALS, SEMICONDUCTORS, AND DIELECTRICS
SAR-8 N64-25320 17-25

PROPAGATION VELOCITY OF ULTRASONIC WAVES IN IRON AND OAST IRON AND SEVERAL DIELECTRIC MATERIALS
FTD-TT-64-120/1&4 N64-25463 17-23

MODIFIED OPTICAL GEOMETRIC METHOD FOR BISTATIC RADAR CROSS SECTIONS OF DIELECTRIC BODIES
AFCRL-64-296 N64-25832 17-09

FAILURE MECHANISMS AT METAL-DIELECTRIC INTERFACES
RADC-TDR-64-138 N64-26918 18-25

INTERACTION BETWEEN PLANE ELECTROMAGNETIC WAVE AND OSCILLATING DIELECTRIC MEDIUM
AFCRL-64-532 N64-27498 19-24

TRAVELING WAVE TUBE WITH NONPERIODIC DIELECTRIC CIRCUITS
ONR-7 N64-28614 20-09

DIELECTRIC COATINGS FOR ELECTRIC CONDUCTORS FOR USE AT CRYGENIC TEMPERATURES
NASA-CR-58502 N64-28958 20-17

THERMAL AGING AND MOISTURE EXPOSURE EFFECTS ON DIELECTRIC COATINGS OF ELECTRIC CONDUCTORS - FLEXIBILITY TESTS AT CRYOGENIC TEMPERATURES
NASA-CR-58539 N64-28962 20-17

ELECTROLYTIC PREPARATION OF HIGH DIELECTRIC THIN FILMS FOR CAPACITIVE ELEMENTS IN INTEGRATED CIRCUITRY
NASA-CR-58503 N64-29186 21-07

DIELECTRIC MATERIALS FOR HIGH TEMPERATURE EVALUATION
RMD-5038-F N64-29525 21-07

COUPLING RESISTANCE MEASUREMENT OF SLOW WAVE SYSTEMS BY DIELECTRIC PROBE N64-31361 23-09

LOW FREQUENCY APPROXIMATIONS FOR SCATTERING BY DIELECTRIC ELLIPTIC CYLINDERS USED IN MATHIEU FUNCTION SERIES SOLUTION
EDL-M725 N64-32562 23-23

DIELECTRICS
DIELECTRICS - LITERATURE SURVEY
NAS-NRC-1139 N64-14182 06-01

BIBLIOGRAPHY ON INSTRUMENTATION AND MEASUREMENTS OF ELECTRICAL INTEGRATED CIRCUIT - DIELECTRICS N64-14183 06-25

MOLECULAR AND IONIC INTERACTION IN DIELECTRICS N64-14185 06-23

DIELECTRIC PROPERTIES & INSULATING APPLICATIONS OF POLYMER FILMS & FIBROUS MATERIALS - BIBLIOGRAPHY N64-14190 06-19

DIELECTRIC PROPERTIES OF INSULATING LIQUIDS - BIBLIOGRAPHY N64-14191 06-19

APPLICATION OF INSULATING MATERIALS AND DIELECTRICS TO ELECTRICAL MACHINERY AND DEVICES N64-14193 06-01

SPUTTERING METHOD FOR PREPARATION OF DIELECTRIC FILMS OF TITANIUM OXIDE - CAPACITOR APPLICATION
RADC-TDR-63-491 N64-14630 06-09

MECHANISM OF ELECTRICAL BREAKDOWN OF SOLID DIELECTRICS IN THIN LAYERS
FTD-TT-62-1927/1&2&4 N64-16409 08-25

CERAMIC DIELECTRICS
AD-430912 N64-16609 08-19

LOW LOSS BORON NITRIDE CERAMIC DIELECTRICS N64-16611 08-19

LANTHANUM ALUMINO SILICATE CERAMIC DIELECTRICS N64-16613 08-19

GAMMA RADIATION PHOTOCONDUCTIVITY DECAY IN ORGANIC DIELECTRIC MATERIALS
SCR-671 N64-18008 10-19

SURFACE-WAVE TRANSMISSION LINES USING THIN DIELECTRIC SHEET
T-85-J N64-18512 10-08

CHARGE TRANSFER IN ELECTROSTATIC GENERATORS WITH DIELECTRIC TRANSFER MEDIA
FTD-TT-63-247/1&2&3&4 N64-19182 11-23

RELAXATION PROCESSES IN DIELECTRICS AND SEMICONDUCTORS
FTD-TT-63-3/1&2&4 N64-23412 16-09

DIELECTRICS, MICROELECTRONICS, AND THIN FILMS OF CADMIUM SELENIDE AND ZINC TELLURIDE
QR-1 N64-30205 21-25

EFFECT OF DIELECTRIC BODY PLACED NEAR DIPOLE ANTENNA ON HORIZONTAL PATTERN OF ANTENNA
DRI-2118 N64-31240 22-08

LOW LOSS DIELECTRICS FOR FOUR-MILLIMETER RESONANT STRUCTURES FOR FERROMAGNETIC TYPE PARAMETRIC AMPLIFIER
REPT.-10 N64-31255 22-25

WAVE DIFFRACTION PATTERN OF DIELECTRIC RADOME
REPT.-1180-13 N64-33547 24-08

X-RAY AND DIELECTRIC MEASUREMENTS OF SODIUM NIOBATE AT VARYING TEMPERATURES
QTSR-2 N64-33671 24-25

DIESEL ENGINE
INTERNAL COMBUSTION ENGINE FUEL FILTRATION PROCESSES & MATERIALS, AND METHODS FOR DIESEL APPLICATION
JPRS-17826 N64-10724 02-26

DIESEL ENGINE COMBUSTION
AD-429013 N64-14785 06-26

HYDROCARBON CONTENT OF CRANKCASE GASES IN AUTOMOTIVE DIESEL ENGINE
REPT-11 N64-19348 12-27

POWER SUPPLIES FOR REMOTE LOCATIONS - INSTALLATION OF DIESEL ALTERNATORS
WRE-TN-FAC-5 N64-20555 13-06

UTILIZATION AND PROPERTIES OF DIESEL OILS WITH ADDITIVES
FTD-63-675/1&2 N64-22353 15-17

NOISE REDUCTION ON DIESEL ENGINE DRIVEN HYDROFOIL BOAT N64-24580 17-34

FUEL PRECONDITIONING FOR CONTROLLING COMBUSTION CHARACTERISTICS IN DIESEL ENGINES
AD-439496 N64-25991 18-26

COMPRESSION TEMPERATURE EFFECT ON COMBUSTION IN DIESEL ENGINES
VR-4174 N64-26662 18-27

COMBUSTION IN DIESEL ENGINES
WR-1315 N64-26679 18-26

COMBUSTION AND LOWERING OF COMPRESSION TEMPERATURE IN DIESEL ENGINE
QTSR-3 N64-32387 23-27

DIET
SA STARVATION
CF FOOD
CF NUTRITION
CALCIUM AND PHOSPHORUS DIETARY SUPPLEMENT AS MEANS OF REDUCING STRONTIUM-90 ACCUMULATION IN SKELETAL BONES OF RATS N64-12444 04-16

EFFECTS OF HIGH CONCENTRATION OF CARBON DIOXIDE AND OF LIQUID DIET ON URINE EXCRETION OF STEROIDS AND CATECHOLAMINES
SAM-TDR-63-63 N64-21094 14-16

AMINO ACIDS IN HUMAN DIET - NUTRITION STUDY
FTD-TT-64-148/1&4 N64-23308 16-16

CALCIUM ENRICHED LIQUID DIET FOR ASTRONAUT IN SPACE
NASA-CR-59003 N64-33044 24-16

DIFFERENCE EQUATION
ZEROS OF AN ENTIRE FUNCTION OF A DIFFERENCE-INTEGRAL EQUATION
MRC-414 N64-12241 03-20

LINEAR DIFFERENTIAL-DIFFERENCE EQUATIONS WITH CONSTANT COEFFICIENTS N64-16676 08-20

SOLUTION OF BOUNDARY LAYER EQUATIONS BY DIFFERENCE METHOD
FTD-TT-63-285/16264 N64-18123 10-20

DISCRETE OPTIMAL CONTROL SYSTEMS FOR SYSTEMS DESCRIBED BY NONLINEAR DIFFERENCE EQUATIONS
NASA-CR-53583 N64-18430 10-20

PERIGREE COMPUTER CODE FOR SOLVING ONE- OR TWO-GROUP NEUTRON DIFFUSION EQUATIONS BY FINITE DIFFERENCE METHODS - REACTOR SIMULATION
AECL-1901 N64-18492 10-20

SOLUTIONS OF LINEAR DIFFERENTIAL-DIFFERENCE EQUATIONS USING LAPLACE TRANSFORM
RM-3952-NIH N64-21391 14-20

SOLUTION OF LARGE ORDER LINEAR SYSTEM BY DIFFERENCE EQUATION
RN-173 N64-22096 15-20

DIFFERENCE METHODS FOR DIRICHLET PROBLEM FOR ELLIPTIC DIFFERENTIAL EQUATIONS
BN-345 N64-25663 17-20

CONVERGENCE RATES OF ITERATIVE METHODS FOR NUMERICAL SOLUTION OF ELLIPTIC DIFFERENCE EQUATIONS
TR-28 N64-27546 19-20

HIGH SPEED DIGITAL COMPUTER METHODS FOR DIFFERENCE EQUATION SOLUTIONS OF MILDLY NONLINEAR ELLIPTIC BOUNDARY VALUE PROBLEMS
MRC-474 N64-31899 23-20

DIFFERENCE METHOD FOR DIRICHLET PROBLEM ASSOCIATED WITH QUASI-LINEAR ELLIPTIC PARTIAL DIFFERENTIAL EQUATION
MRC-494 N64-31964 23-20

STABILITY CRITERION OF NUMERICAL TREATMENT OF BOUNDARY CONDITIONS FOR GENERAL NONLINEAR DIFFERENCE EQUATIONS
NYO-1480-4 N64-33435 24-20

DIFFERENTIAL ANALYZER
PROGRAMMING OF DIFFERENTIAL CORRECTION TO ORBITAL ELEMENTS AND STATION POSITIONS
AFCRL-64-55 N64-19417 12-29

TRANSFORMER-TYPE DIFFERENTIAL ANALYZER FOR LINEAR EQUATIONS WITH CONSTANT COEFFICIENTS
FTD-TT-63-840/1&2 N64-21958 15-20

DIFFERENTIAL EQUATION
SA DUFFING EQUATION
SA MATHIEU FUNCTION
SA PARTIAL DIFFERENTIAL EQUATION
SA RAYLEIGH EQUATION
SA RUNGE-KUTTA INTEGRATION

ANALOG COMPUTER METHOD OF MODELING DIFFERENTIAL EQUATIONS WITH BOUNDARY CONDITIONS AND SYNTHESIS OF ELECTRONIC MODELS FOR ALGEBRAIC OBJECTS
JPRS-19563 N64-10831 02-20

OPTIMUM CONTROL OF PROCESSES DESCRIBED BY DIFFERENTIAL EQUATIONS N64-11196 02-20

REMOVAL OF URANIUM HEXAFLUORIDE FROM GAS STREAM WITH NITROGEN BY SINGLE LAYER OF SODIUM FLUORIDE PELLETS - DIFFERENTIAL EQUATION EXPLANATION
ORNL-3494 N64-11342 02-25

OSCILLATION OF SOLUTIONS TO SECOND ORDER NONLINEAR NON-AUTONOMOUS DIFFERENTIAL EQUATIONS N64-11404 02-20

SOLUTIONS TO DIFFERENTIAL EQUATIONS BY EXPANDING UNKNOWN FUNCTION AND INDEPENDENT VARIABLES ACCORDING TO PARAMETRIC POWER SERIES
MH-TRANS-413 N64-11566 03-20

CELESTIAL MECHANICS - DIFFERENTIAL EQUATIONS DEFINED AS STABLE IN JACOBIAN SENSE WHEN CORRESPONDING VARIATIONAL EQUATIONS ARE STABLE
MH-TRANS-426 N64-11572 03-20

CLASS OF LINEAR DIFFERENTIAL EQUATIONS WITH SLOWLY CHANGING PARAMETERS - PERTURBATION FREQUENCY BY ITERATION METHOD
MH-TRANS-460 N64-11577 03-20

POLYNOMIAL STATISTICS AND ANALYTIC THEORY OF DIFFERENTIAL EQUATIONS - STOCHASTIC PROCESSES IN INDEPENDENT STATISTICS
MH-TRANS-282 N64-11626 03-20

AVERAGING ORDINARY DIFFERENTIAL EQUATIONS
MH-TRANS-435 N64-11639 03-20

MONTE CARLO METHODS FOR RANDOM PROCESSES AND DIFFERENTIAL EQUATION SOLUTIONS N64-11864 03-20

STABILITY OF FREE CONVECTION BOUNDARY LAYER FLOW INVESTIGATED BY INTEGRATION OF DISTURBANCE DIFFERENTIAL EQUATIONS
NASA-TN-D-2089 N64-11905 03-11

DIFFERENTIAL EQUATION FOR AUTOMATIC CONTROL SYSTEMS TO CONTROL OBJECT MOTION WITHIN WIDE RANGE OF PARAMETERS
JPRS-22343 N64-11915 03-08

CAPACITIVE PARAMETRON - DIFFERENTIAL EQUATION DERIVED DESCRIBING OPERATION N64-12729 04-09

INITIAL DIFFERENTIAL EQUATION OF INDUCTIVE PARAMETRON WITH FERRITE CORE FOR COMPUTERS & AUTOMATION DEVICES N64-12730 04-09

GENERAL SOLUTION FOR SYSTEM OF DIFFERENTIAL EQUILIBRIUM EQUATIONS IN DISPLACEMENT OF ANISOTROPIC BODY
RSIC-10 N64-13032 04-03

SUPERPOSITION PRINCIPLE FOR SYSTEM OF ANALYTIC DIFFERENTIAL EQUATIONS YIELDING BETTER APPROXIMATING SERIES
R63SD-88 N64-13098 04-20

DIFFERENTIAL EQUATIONS AND ASYMPTOTIC INTEGRATION FOR SOLUTION OF THERMAL STRESS ON THIN PARABOLIC SHELL OF REVOLUTION
NASA-CR-53007 N64-13276 04-34

CLOSURE TECHNIQUES FOR INFINITE SYSTEMS OF DIFFERENTIAL EQUATIONS
RM-3821-ARPA N64-13855 05-20

SELF-ADJOINT DIFFERENTIAL OPERATORS OF PURE WAVE TYPE
AROD-407-63 N64-14479 06-20

DIRECT NUMERICAL INTEGRATION OF SYSTEM OF LINEAR SECOND-ORDER ORDINARY DIFFERENTIAL EQUATIONS
GD/A-63-1021 N64-14549 06-20

DIFFERENTIAL DESCRIPTION OF CONTINUOUS DEPENDENCE OF SOLUTION TO ONE PROBLEM OF OPTIMAL REGULATION ON INITIAL DATA AND PARAMETERS
RM-TRANS-404 N64-14806 06-20

INTEGRO-DIFFERENTIAL EQUATION DESCRIPTION OF ONE-DIMENSIONAL PARTICLE FLUX TRANSPORT PROCESSES
RM-3862-ARPA N64-14816 06-23

ASYMPTOTIC FIXED POINT THEOREMS AND PERIODIC SYSTEMS OF FUNCTIONAL-DIFFERENTIAL EQUATIONS
TR-63-12 N64-15798 07-20

APPROXIMATION FUNCTION FOR LINEAR DIFFERENTIAL EQUATIONS AND ORTHOGONAL POLYNOMIALS
RM-3482-PR N64-16082 07-20

NUMERICAL INTEGRATION OF COUPLED FIRST ORDER DIFFERENTIAL EQUATIONS WITH VARIED TIME CONSTANTS
NASA-CR-55550 N64-16108 07-20

QUALITATIVE THEORY OF DIFFERENTIAL EQUATIONS - SYSTEM STABILITY N64-16211 08-20

CORRESPONDING RESPONSE FUNCTIONS FOR INPUTS FROM CHARACTERISTIC DIFFERENTIAL EQUATIONS OF MOTION OF TRANSDUCER SYSTEMS N64-16239 08-15

ANALYSIS OF PHYSICAL NONLINEAR TRANSDUCERS BY MATHEMATICAL MODELS CHARACTERIZED BY DIFFERENTIAL EQUATIONS N64-16240 08-15

ASYMPTOTIC METHOD FOR SOLUTION OF SYSTEM OF TWO NONLINEAR DIFFERENTIAL EQUATIONS
FTD-TT-63-1038/1&2 N64-16391 08-22

LINEAR DIFFERENTIAL-DIFFERENCE EQUATIONS WITH CONSTANT COEFFICIENTS N64-16676 08-20

SINGULAR SOLUTION OF INTEGRAL DIFFERENTIAL EQUATIONS IN RADIATIVE TRANSFER THEORY
RM-3575-PR N64-16790 08-20

NUMERICAL INTEGRATION OF DIFFERENTIAL EQUATIONS
RSIC-104 N64-17636 09-20

GALERKIN METHOD OF SOLVING BOUNDARY VALUE PROBLEMS FOR CERTAIN TYPES OF LINEAR DIFFERENTIAL EQUATIONS
NASA-TT-F-195 N64-17722 09-20

DIFFERENTIAL EQUATION FOR UNDAMPED FORCED NON-LINEAR OSCILLATIONS
NASA-CR-53471 N64-18172 10-23

APPLICATION OF STOCHASTIC DIFFERENTIAL EQUATIONS TO OPTIMAL NONLINEAR FILTERING IN CONTROL THEORY
NASA-CR-53567 N64-18447 10-20

GROUP THEORY - AUTOMORPHIC FORMS AND POINCARE SERIES FOR FINITELY GENERATED FUCHSIAN GROUPS - DIFFERENTIAL EQUATIONS
IMM-NYU-318 N64-18873 11-20

PERIODIC FUNCTION SOLUTIONS OF ONE-DEGREE-OF-FREEDOM OSCILLATORS - DIFFERENTIAL EQUATIONS AND WAVE FUNCTIONS
AROD-4105-6 N64-18881 11-20

THERMOELASTIC DIFFERENTIAL EQUATIONS FOR SHELLS OF ARBITRARY SHAPE
SSD-TDR-63-20 N64-19157 11-33

APPROXIMATE SOLUTION OF DIFFERENTIAL EQUATIONS WITH DEVIATING ARGUMENTS USING METHOD OF OSCILLATING FUNCTIONS
FTD-TT-63-1034/1&2&4 N64-19219 11-20

DIFFERENTIAL EQUATIONS FOR HYDRODYNAMIC PROBLEM OF SHOCK WAVES AND TWO RAREFACTION WAVES MOVING IN OPPOSITE DIRECTIONS
LA-3007 N64-19282 11-24

METHOD OF INDETERMINANT COEFFICIENTS IN LINEAR DIFFERENTIAL SYSTEMS AND MATRIX EQUATION
MRC-452 N64-19395 12-20

LINEAR DIFFERENTIAL SYSTEMS FOR SOLUTION OF ENERGY CONTROL PROBLEMS
REPT.-2900-458-R N64-20082 13-20

EXISTENCE & STABILITY OF ALMOST PERIODIC SOLUTIONS OF DIFFERENTIAL EQUATIONS IN BANACH SPACE
MRC-455 N64-20336 13-20

CONNECTION BETWEEN QUASI- AND REAL CANONICAL DIFFERENTIAL EQUATIONS
MRC-457 N64-20338 13-20

COMPUTER PROGRAM FOR SOLVING COUPLED FIRST DEGREE DIFFERENTIAL EQUATIONS BY MATRIX SERIES EXPANSION
AECL-1898 N64-21018 14-20

DIAGNOSTIC DIFFERENTIAL EQUATION FOR STREAM FUNCTION OF NON-GEOSTROPHIC MOTION IN FRONTAL ZONE
AFCRL-64-246 N64-21083 14-21

MATRIX RICCATI DIFFERENTIAL EQUATIONS
MRC-465 N64-21151 14-20

REDUCTION OF TWO-DIMENSIONAL SYSTEMS OF DIFFERENTIAL EQUATIONS - MATHEMATICS
AD-431976 N64-21219 14-20

BOUNDARY & INITIAL VALUE PROBLEMS FOR SINGULAR LINEAR INTEGRO-DIFFERENTIAL EQUATIONS
M-50 N64-21436 14-20

ABSOLUTE INVARIANCE IN THEORY OF DIFFERENTIAL EQUATIONS
FTD-MT-63-322 N64-21660 15-20

STABILITY THEOREM FOR FUNCTIONAL-DIFFERENTIAL EQUATIONS N64-22116 15-20

SUCCESSIVE APPROXIMATIONS BASED ON PONTRYGIN PRINCIPLE FOR SOLUTION OF OPTIMAL CONTROL PROBLEMS
FTD-TT-63-701/1&2 N64-22181 15-09

DIFFERENTIAL EQUATIONS FOR ENERGY DENSITY AND AMPLITUDE VARIATION IN SPACE CURVE IN MEDIUM OF CHANGING REFRACTIVE INDICES
DAMP-TM-63-04 N64-22331 15-23

APPROXIMATION METHOD FOR SOLVING NONLINEAR DIFFERENTIAL EQUATIONS
SEG-TDR-64-25 N64-22375 15-20

VON ZEIPEL METHOD AND CANONICAL VARIABLES USED IN SOLUTION OF DIFFERENTIAL EQUATIONS RELATED TO PERTURBATION THEORY
RM-4074-PR N64-22617 15-23

COMPLEX VARIABLE ANALYTIC FUNCTIONS AND SOLUTIONS OF ELLIPTICAL SYSTEMS OF DIFFERENTIAL EQUATIONS
RSIC-172 N64-22909 16-20

DIFFERENTIAL EQUATIONS FOR PRESSURE DISTRIBUTION AROUND HERRINGBONE-GROOVED, GAS LUBRICATED, JOURNAL BEARING
MTI-64TR15 N64-23364 16-17

ANALYTIC CALCULATION ON ELECTRONIC COMPUTER FOR SOLUTION OF DIFFERENTIAL EQUATIONS N64-23398 16-20

LINEAR PROGRAMMING AND BOUNDED PHASE COORDINATE CONTROL - ROCKET BOOSTER CONTROL SYSTEM
NASA-CR-56650 N64-23851 16-30

SOLUTIONS TO TWO-POINT BOUNDARY VALUE PROBLEMS FOR SECOND-ORDER SYSTEMS OF LINEAR DIFFERENTIAL EQUATIONS
RM-3857-PR N64-23906 16-20

DIFFERENTIAL EQUATION COMPUTATION PROCEDURES AND LIBRATION MOTIONS OF SPACE MATHEMATICS
NASA-CR-56195 N64-24120 16-20

DIFFERENTIAL EQUATION FOR PASSAGE OF PLANE ELECTROMAGNETIC WAVES THROUGH PLANE-PARALLEL INHOMOGENEOUS PLASMA SLAB
NASA-TR-R-172 N64-24593 17-24

AUTOMATON - DIFFERENTIAL EQUATIONS FOR OPTIMAL CONTROL PROBLEMS N64-24701 17-20

LAPLACE DIFFERENTIAL EQUATIONS FOR AUTOMATIC CONTROL SYSTEMS UNDER RANDOM EFFECTS N64-24704 17-6

FORTRAN II COMPUTER PROGRAM FOR USE WITH UNIVAC 80 SOLID-STATE COMPUTER FOR SOLVING DIFFERENTIAL EQUATIONS OF SIMPLY-SUPPORTED CYLINDRICAL SHELLS N64-24841 17-33

FORTRAN II COMPUTER PROGRAM FOR EVALUATION OF DONNELL TYPE DIFFERENTIAL EQUATION FOR ORTHOTROPIC CIRCULAR-CONICAL SHELL N64-24842 17-33

EXISTENCE AND UNIQUENESS OF PERIODIC SOLUTION TO SINGLE NONLINEAR DIFFERENTIAL EQUATION OF HYPERBOLIC TYPE
NASA-TT-F-8737 N64-25279 17-20

SOLUTION OF SECOND ORDER DIFFERENTIAL EQUATION OF HYPERBOLIC TYPE BY REDUCTION TO SYSTEM OF INTEGRAL EQUATIONS
NASA-TT-F-8738 N64-25280 17-20

SUCCESSIVE APPROXIMATION METHOD FOR SOLUTION TO DIFFERENTIAL EQUATION SYSTEM
NASA-TT-F-8739 N64-25281 17-20

DIFFERENCE METHODS FOR DIRICHLET PROBLEM FOR ELLIPTIC DIFFERENTIAL EQUATIONS
BN-345 N64-25663 17-20

SOLUTIONS TO NONLINEAR DIFFERENTIAL EQUATIONS OF RADIATIVE TRANSPORT PROCESSES - PARTICLE INTERACTION
RM-4075-PR N64-25744 17-23

TRUNCATION ERRORS OF POWER SERIES SUBSTITUTION TECHNIQUE IN SOLUTION OF SECOND ORDER NONLINEAR DIFFERENTIAL EQUATIONS
ADN-02-08-62.1 N64-25967 18-20

APPLICATION OF DYNAMIC PROGRAMMING TO LINEAR TIME-VARYING DIFFERENTIAL EQUATIONS
RM-4099-PR N64-26194 18-28

FORTRAN COMPUTER PROGRAM FOR SOLVING DIFFERENTIAL EQUATIONS IN HEAT TRANSFER PROBLEM
NASA-CR-56722 N64-26354 18-13

SYNTHESIS OF OPTIMAL CONTROL PROCESS DESCRIBED BY LINEAR SYSTEM OF DIFFERENTIAL EQUATIONS N64-26384 18-09

GAS BEARING WITH AND WITHOUT SLIP FLOW N64-27193 19-11

SIMPLIFIED PREDICTOR-CORRECTOR METHOD FOR NUMERICAL SOLUTION TO CLASS OF DIFFERENTIAL EQUATIONS
AD-433914 N64-27215 19-20

CHEBYSHEV POLYNOMIALS USED FOR APPROXIMATE INTEGRATION OF ORDINARY DIFFERENTIAL EQUATIONS
VKI-TN-18 N64-27372 19-20

SOLUTIONS OF ORDINARY DIFFERENTIAL SYSTEMS EXTENDED TO GENERAL FUNCTIONAL DIFFERENTIAL EQUATIONS AND CONSIDERING STABILITY AND BOUNDEDNESS N64-28296 20-20

HYBRID METHODS FOR INTEGRATION OF INITIAL VALUE PROBLEMS IN ORDINARY DIFFERENTIAL EQUATIONS
REPT.-164 N64-28512 20-20

ROLE OF GENERALIZED LIPSCHITZ CONDITION IN PROVING PROPERTIES OF SOLUTIONS TO DIFFERENTIAL EQUATIONS AND IN DERIVING PONTRYAGIN MAXIMUM PRINCIPLE
R-215 N64-29379 21-09

SUFFICIENT CONDITIONS FOR STABILITY AS TIME APPROACHES INFINITY OF NONLINEAR SYSTEM OF DIFFERENTIAL EQUATIONS
NASA-TN-D-2457 N64-29509 21-09

NONLINEAR SECOND ORDER SYSTEMS DESCRIBED BY PAIR OF COUPLED FIRST ORDER DIFFERENTIAL EQUATIONS
R-223 N64-30138 21-09

ALGEBRAIC PROPERTIES OF EXTERIOR DIFFERENTIAL SYSTEMS - PROLONGATION OF CARTAN FUNCTIONS
TR-22 N64-30181 21-20

NUMERICAL ANALYSIS OF FUNCTIONAL LINEAR DIFFERENTIAL EQUATIONS BY LAPLACE TRANSFORM
RM-4089-NIH N64-30399 22-20

DIFFERENTIAL EQUATIONS OF BRILLOUIN-WIGNER PERTURBATION THEORY N64-30469 22-11

DYNAMIC SYSTEMS GOVERNED BY LINEAR ORDINARY DIFFERENTIAL EQUATIONS OF FINITE ORDER IN STATE VARIABLES - LINEAR SYSTEM THEORY
NASA-CR-58822 N64-30508 22-20

RUNGE-KUTTA TYPE PROCEDURES FOR NUMERICAL INTEGRATION OF FIRST ORDER DIFFERENTIAL EQUATION
RSIC-243 N64-30968 22-20

DIFFERENTIAL EQUATION AS OPTIMUM FORMULATION OF SINGULAR PERTURBATION PROBLEM
MRC-502 N64-30978 22-20

CONVERGENCE OF PICARD SUCCESSIVE APPROXIMATION SCHEMES BY TWO-POINT BOUNDARY VALUE NONLINEAR DIFFERENTIAL EQUATIONS
RM-4079-PR N64-31072 22-20

OPTICAL COHERENCE APPLIED TO ERGODIC FIELDS AND DYNAMIC STATES OF NONLINEAR DIFFERENTIAL EQUATION
USCEC-102-101 N64-31097 22-09

DYNAMIC STATES OF NONLINEAR DIFFERENTIAL EQUATION N64-31099 22-20

STABILITY OF DYNAMIC SYSTEMS, NONLINEAR OSCILLATIONS, AND FUNCTIONAL-DIFFERENTIAL EQUATIONS
AD-422279 N64-31186 22-20

POISSON AND DIFFERENTIAL EQUATIONS FOR HIGH ORDER PERTURBATION THEORY USING RECTANGULAR COORDINATES
JPL-TR-32-470 N64-31554 23-20

ABSOLUTE INVARIANCE AND INVARIANCE TO PERIOD OF PERIODIC FUNCTION IN THEORY OF DIFFERENTIAL EQUATIONS
FTD-MT-63-325 N64-31880 23-20

GRADUATED LOGARITHMIC FIELDS AND STABILITY - APPLICATION TO ALGORITHMS FOR ASYMPTOTIC STUDIES OF DIFFERENTIAL EQUATIONS
MRC-489 N64-31961 23-20

NONNEGATIVE DIFFERENCE ANALOGS OF ELLIPTIC DIFFERENTIAL EQUATIONS
MRC-490 N64-31962 23-20

STABILITY, PERIODICITY, AND NEAR PERIODICITY OF SOLUTIONS OF NONLINEAR DIFFERENTIAL EQUATIONS IN BANACH SPACES
MRC-496 N64-31965 23-20

MATRIX OPERATIONS, LINEAR INTEGRAL EQUATIONS THEORY, AND DIFFERENTIAL EQUATIONS FOR DYNAMIC STABILITY OF RODS AND ELASTIC SYSTEMS
TDR-169/3560-30/TR-2, VOL. 4 N64-32303 23-20

LINEAR, GLOBAL TRAJECTORY, AND LOCAL TRAJECTORY EQUIVALENCE OF SYSTEMS OF DIFFERENTIAL EQUATIONS
AD-448771 N64-32474 23-20

RUNGE-KUTTA METHOD FOR CONSTRUCTING ACCURACY ORDER FOR NUMERICAL INTEGRATION OF DIFFERENTIAL EQUATIONS
RSIC-249 N64-32534 23-20

NUMERICAL SOLUTION OF DIFFERENTIAL EQUATIONS FOR FRONTAL MOTION IN ATMOSPHERE
NYO-1480-6 N64-32805 24-20

SYSTEM FUNCTIONS IN REPRESENTATION AND ANALYSIS OF LINEAR DIFFERENTIAL SYSTEMS
TR-64-4 N64-32976 24-09

USE OF FROBENIUS SERIES IN SOLVING HOMOGENEOUS LINEAR DIFFERENTIAL EQUATIONS WITH WEAK SINGULAR POINTS
NASA-CR-58998 N64-32993 24-20

ORDINARY DIFFERENTIAL EQUATIONS AND APPLICATION TO CELESTIAL MECHANICS PROBLEM SOLVING
FTD-MT-63-312 N64-33027 24-20

EXTENSION OF ORDINARY TO FUNCTIONAL DIFFERENTIAL EQUATIONS OF THE FINITE LAG TYPE
N64-33154 24-20

DYNAMIC PROPERTIES OF SOLUTIONS OF SECOND ORDER LINEAR DIFFERENTIAL EQUATIONS
RM-4104-PR N64-33233 24-20

DIFFERENTIAL EQUATIONS OF LINEAR BANDING THEORY OF ELASTIC SHELLS
AM-64-15 N64-33506 24-33

DIFFERENTIAL OPERATOR
INVARIANT DIFFERENTIAL OPERATORS AND BOUNDARY VALUE PROBLEMS
NH-TRANS-466 N64-11652 03-20

TAYLOR AND LAGRANGE THEOREMS AND DIFFERENTIAL OPERATORS IN N-DIMENSIONS
SLAC-22 N64-13366 04-20

SELF-ADJOINT DIFFERENTIAL OPERATORS OF PURE WAVE TYPE
AROD-407-63 N64-14479 06-20

DIFFRACTION
SA ELECTRON DIFFRACTION
SA LAUE DIFFRACTION
SA LIGHT TRANSMISSION
SA NEUTRON DIFFRACTION
SA PULSE DIFFRACTION
CF SCATTERING
PRINCIPAL MODE DIFFRACTION AT END OF WAVEGUIDE TERMINATED BY INFINITE-PLANE FLANGE
N64-13397 04-09

LASERS FOR COMMUNICATION & DIFFRACTION OF COHERENT SOURCES
RADC-TDR-63-217 N64-13426 05-01

DIFFRACTION OF COHERENT, PARTIALLY COHERENT, AND INCOHERENT LIGHT BY PLANE APERTURE
N64-13428 05-25

ELECTROMAGNETIC DIFFRACTION IN FOCAL REGION OF COHERENT LIGHT BEAMS
PR-2 N64-13896 05-23

ELEMENTARY SOURCE DESCRIPTION OF SCATTERING AND DIFFRACTION
RAD-TR-62-13 N64-14124 05-23

CHARACTERISTICS OF DIFFRACTION PROPAGATION AT MICROWAVE FREQUENCIES
RADC-TDR-64-13 N64-18795 11-08

WAVE PROPAGATION AND DIFFRACTION PHENOMENA IN VARIOUS MEDIA AND NETWORK SYNTHESIS
PIBMRI-1112-63 N64-21503 15-25

ULTRASONIC WAVE & MICROWAVE RADIO COMMUNICATION TRANSMITTER SITE SELECTED BY LIGHT ILLUMINATION AND DIFFRACTION ON EARTH SHAPE
FTD-TT-64-30/162 N64-22158 15-08

PERTURBATION METHOD FOR DIFFRACTION PROBLEM OF ELECTROMAGNETIC WAVES BY ARBITRARILY SHAPED DIELECTRIC OBSTACLE
USCEC-82-216 N64-22385 15-23

NEW POLYTYPES OF SILICON CARBIDE USING LAUE METHOD OF X-RAY ANALYSIS N64-23007 16-07

MEASUREMENT OF RADAR BACKSCATTER CROSS-SECTIONS AND DIFFRACTED FIELDS N64-24282 17-08

INFRARED SPECTRUM OF MARS USING DIFFRACTION AND PRISM TYPE SPECTROMETERS
NASA-TT-F-9010 N64-27135 19-05

DIFFRACTION STUDIES OF CRYSTAL IMPERFECTIONS
AROD-2178-8 N64-27216 19-25

DIFFRACTION OF SHOCK WAVE MOVING INTO REGION OF UNIFORM FLOW
SSD-TDR-64-92 N64-27490 19-11

ELECTROMAGNETIC THEORY - DIFFRACTION, WAVE GUIDES, RADIATION AND COMMUNICATIONS
AFCRL-64-384 N64-27647 19-08

DIFFRACTION OF OBLIQUE SHOCK WAVES
ARC-CP-612 N64-28031 20-11

PRESSURE FIELD DETERMINATION DURING DIFFRACTION ABOUT TRUNCATED WEDGE ZONE N64-28497 20-33

CALCULATED DIFFRACTION EFFECTS AT VERY LOW FREQUENCY FROM LOCALIZED IONOSPHERIC DEPRESSION
NBS-TN-208 N64-28749 20-08

THEORY OF HIGH ENERGY DIFFRACTION - COLLISIONS OF FAST PARTICLES WITH NUCLEI N64-29049 21-23

FIELD STRENGTH MEASUREMENTS AT HIGH FREQUENCY
E-T-R-63-6 N64-32166 23-23

DIURNAL VARIATIONS IN HORIZONTAL AND VERTICAL DISTRIBUTION OF ATMOSPHERIC DENSITY FOR ALTITUDES UP TO 90 KM
NR-384-903 N64-32180 23-23

DIFFRACTION OF OBLIQUE ELECTROMAGNETIC SURFACE WAVE BY RIGHT ANGLE BEND
EM-190 N64-33307 24-08

OPTICAL DIFFRACTION SCANNING FOR FREQUENCY CONTENT AND CHANGES IN VARIABLE-DENSITY SEISMOGRAM
REPT.-4596-17-R N64-33579 24-23

DIFFRACTION PATH
S OPTICS

DIFFRACTION PATTERN
CF SIGNAL FADING
ANNOTATED BIBLIOGRAPHY FOR NEAR-FIELD PATTERN MEASUREMENTS OF ELECTROMAGNETIC RADIATION
SB-63-38 N64-10322 01-08

DEMONSTRATION MODEL OF SPHERICAL PROJECTION FOR CUBIC CRYSTALS USED FOR DIFFRACTION PATTERN INTERPRETATION AND CRYSTALLOGRAPHY COURSES
NASA-RP-83 N64-11115 02-25

NEAR AND FAR FIELD BEAM DIFFRACTION PATTERNS OF RUBY LASER NEAR THRESHOLD N64-13745 05-25

DIFFRACTION AND FOCUSING OF PARTIALLY COHERENT RADIATION BY CIRCULAR APERTURE
REPT.-1579-4 N64-15364 07-08

APPROXIMATION METHOD FOR COMPUTING DIFFRACTION PATTERNS CAUSED BY IONOSPHERIC IRREGULARITIES
D1-82-0334 N64-19964 12-12

CALCULATION OF ELECTRON DIFFRACTION PATTERNS FROM TWINNED REGIONS OF CUBIC CRYSTALS
ARPA-E7 N64-27685 19-18

CALCULATION OF ELECTRONIC DIFFRACTION PATTERNS CONTAINING TWIN REFLECTIONS
OR-6112 N64-33418 24-25

DIFFRACTOMETER
SA PARTICLE SIZE
OXIDIZING, NEUTRAL, REDUCING, OR EVACUATED ATMOSPHERIC ENVIRONMENT CHARACTERISTICS OF HIGH TEMPERATURE X-RAY DIFFRACTOMETER FOR RESEARCH STUDIES
ARL-64-82 N64-33021 24-15

DIFFUSE RADIATION
ANGLE FACTORS FOR DIFFUSE RADIANT ENERGY INTERCHANGE BETWEEN PARALLEL CYLINDRICAL TUBES - APPLICATION TO TUBULAR HEAT EXCHANGER

N64-15929 07-13

CROSS SECTIONS OF CYLINDERS WITH UNIFORM DIFFUSE RADIATION CHARACTERISTICS
NASA-RP-143 N64-17563 09-13

CROSS SECTIONAL SHAPES OF CYLINDRICAL OR TWO-DIMENSIONAL CAVITIES WITH UNIFORM DIFFUSE RADIATION CHARACTERISTICS OF HEAT TRANSFER
N64-19574 12-13

ABSORPTIVITY DETERMINATIONS FROM REFLECTIVITY MEASUREMENTS INCLUDING BOTH DIFFUSE AND SPECULAR REFLECTION
ARC-CP-601 N64-28030 20-23

BILATERAL INTERACTION OF STARS WITH DIFFUSE MATTER AND SIGNIFICANCE IN COSMOGONIC PROCESS
N64-28382 20-29

DIFFUSER
SA NOZZLE
MEASUREMENT OF DIFFUSER PERFORMANCE, BLOCKAGE, STARTING LOADS, AND HUMIDITY IN HYPERSONIC WIND TUNNEL
ARC-CP-663 N64-10323 01-10

ROTATING DIFFUSER APPARATUS FOR CENTRIFUGAL COMPRESSOR MACHINE
FTD-TT-63-809/1&2 N64-11143 02-02

DIFFUSER-EJECTOR CONFIGURATION FOR TWO-NOZZLE CLUSTER ROCKET
AEDC-TDR-63-130 N64-11187 02-02

FLOW PARAMETERS IN SIX DEGREE CONICAL DIFFUSERS
N64-11875 03-02

EFFECTS OF GEOMETRY ON EFFECTIVENESS OF FINNED BODY DIFFUSERS
FTD-TT-63-86/1&2 N64-16356 08-02

SUPERSONIC DIFFUSER PERFORMANCE IN HYPERSONIC, LOW DENSITY FLOW
AEDC-TDR-64-47 N64-18602 11-02

OPTIMIZATION OF DIFFUSER SHAPES
N64-23489 16-11

RESISTANCE & RESTORATION OF ANNULAR DIFFUSERS WITH CYLINDRICAL & CONICAL INSERTS FOR MARINE GAS TURBINES
FTD-TT-63-1039/1&2 N64-25454 17-02

DIFFUSER PERFORMANCE AND MODEL BLOCKAGE EFFECTS IN HYPERSONIC OPEN-JET TUNNEL
NASA-TN-D-2384 N64-26002 18-02

INFLUENCE OF PERTINENT PARAMETERS ON EJECTOR-DIFFUSER PERFORMANCE WITH AND WITHOUT EJECTED MASS
AEDC-TDR-64-134 N64-26102 18-27

RESISTANCE AND HEAT EXCHANGE IN MOTION OF HEATED AIR IN DIFFUSERS AND MIXERS
AID-T-64-25 N64-29596 21-13

PROPULSION ENGINE TEST CELL AS COMBINATION EJECTOR - DIFFUSER AND HIGH VACUUM CHAMBER FOR PROPULSION TESTING
AEDC-TDR-64-138 N64-31137 22-10

SCREEN AND SPLITTER VANE ARRANGEMENTS FOR PREVENTING FLOW SEPARATION IN WIDE-ANGLE CONICAL DIFFUSERS
TN-AE-24-64 N64-32013 23-03

AIR INTAKE DIFFUSERS FOR SUPERSONIC AIRCRAFT
FTD-MT-64-301 N64-32243 23-27

INCOMPRESSIBLE FLOW IN CONICAL DIFFUSER
AROD-4332-1 N64-33575 24-11

DIFFUSION
SA ATMOSPHERIC DIFFUSION
SA GASEOUS DIFFUSION
SA OSMOSIS
SA THERMAL DIFFUSION
SA TURBULENT DIFFUSION
CF SCATTERING
CF TRANSPORT PROPERTY
MOLECULAR DISTRIBUTION UNDER FREE MOLECULAR FLOW CONDITIONS WITHIN SURFACES OF SIMPLE GEOMETRIES
NASA-TM-X-51032 N64-10107 01-23

OXIDATION TESTING, CELLOPHANE DEGRADATION AND MODIFICATION, AND DIFFUSION RATE OF SILVER IONS - ALKALINE BATTERY SEPARATOR
NASA-CR-52491 N64-10368 01-19

EXAMINATION OF CODIFFUSION OF TWO CHEMICALLY ACTIVE GASES INTO HARD METAL NITROGEN-CARBON-CHROMIUM SYSTEM
N64-10674 02-11

POWDER METALLURGY STUDIES ON CREEP, SINTERING, CHROMIUM CARBIDE, AND DIFFUSION SATURATION
JPRS-17499 N64-10685 02-11

POWDERED ALLOY PRODUCTION FROM METAL SPONGE BY DIFFUSION SATURATION N64-10689 02-11

MOLECULAR FLOW AND EFFUSION PROCESS IN MEASUREMENT OF VAPOR PRESSURES
ASD-TDR-63-754, PT. 1 N64-11444 03-23

INFLUENCE OF DIFFUSION OF RADIATING IMPURITIES ON CONVECTIVE HEAT EXCHANGE FOR AXISYMMETRIC BLUNT-NOSED BODY N64-11715 03-13

DIFFUSION COUPLE BONDING TECHNIQUE FOR OBTAINING DATA ON DIFFUSION KINETICS OF ALUMINUM-NICKEL-URANIUM SYSTEM
NAA-SR-8387 N64-11911 03-25

TEMPERATURE AND PRESSURE EFFECT ON CHROMIUM IONS IN RUBY AND ALEXANDRITE AND NEODYMIUM IONS IN HYDRATE OF PRASEODYMIUM NEODYMIUM NITRATE
E-T-G-63-9 N64-12200 03-25

ANNOTATED BIBLIOGRAPHY OF DIFFUSION BONDING AND HOT PRESSURE WELDING
SB-63-44 N64-12673 04-11

NUMERICAL PREDICTIONS OF NONLINEAR DIFFUSION WITH HOMOGENEOUS RECOMBINATION AND TIME-VARYING BOUNDARY CONDITIONS
NASA-TN-D-2126 N64-12688 04-21

DIFFUSION TRANSISTOR CONNECTED IN GROUNDED-BASE CIRCUIT N64-12732 04-11

THERMAL DESORPTION AND SURFACE DIFFUSION OF CESIUM COATINGS ON TUNGSTEN SUBSTRATE - PULSED-FIELD-EMISSION MICROSCOPY INVESTIGATION
NASA-CR-22 N64-12912 04-25

MODEL FOR DIFFUSIVE MAGNETOTHERMOELECTRIC GENERATOR
AD-421931 N64-12974 04-11

MULTIGROUP DIFFUSION THEORY CALCULATION FOR FAST LIQUID METAL COOLED REACTOR
NASA-CR-53017 N64-13280 04-21

WELDING TITANIUM AND ITS ALLOYS BY DIFFUSION UNDER VACUUM N64-13420 05-17

CORROSION STABILITY OF TITANIUM ALLOYS JOINED BY DIFFUSION WELDING UNDER VACUUM N64-13421 05-0

BROWNIAN MOTION APPLIED TO ELECTRON AND ION DIFFUSION IN PLASMA ACROSS MAGNETIC FIELD WITH ANISOTROPIC DYNAMICAL FRICTION
AFCRL-63-775 N64-13669 04-2

DIFFUSION OF CADMIUM IN CADMIUM SULFIDE
N64-13748 05-2

DIFFUSION OF IRON INTO SINGLE CRYSTAL MAGNESIUM OXIDE
UCRL-11073 N64-14069 05-2

DIFFUSION OF BERYLLIUM-7 THROUGH POLYCRYSTALLINE UNIRRADIATED COLD-PRESSED AND SINTERED BERYLLIUM OXIDE
ORNL-3526 N64-14201 04-2

FORMATION OF POROSITY DURING DIFFUSION PROCESSES

IN METALS
UCRL-10383 N64-14398 06-25

ELECTRON MICROSCOPE ANALYSIS OF IRON DIFFUSION INTO SODIUM DISILICATE GLASS ROD
UCRL-11116 N64-14400 06-25

OXYGEN TENSION DETERMINATION - OXYGEN DIFFUSION IN GREY MATTER OF BRAIN AT CAPILLARY LEVEL
N64-14583 06-16

DIRECTIONAL DEPENDENCE OF SELF-DIFFUSION COEFFICIENT FOR ANTHRACENE SINGLE CRYSTALS
82130-T-2 N64-14705 06-25

RADIOACTIVE ISOTOPES IN ATMOSPHERE, PRECIPITATION SCAVENGING OF RADIOACTIVE AEROSOLS, & TURBULENT DIFFUSION OF AEROSOL - NUCLEAR METEOROLOGY
AEC-TR-6128 N64-14870 06-21

RAPID OXYGEN DIFFUSION IN BERYLLIUM OXIDE
NAA-SR-7637 N64-15150 07-25

DROPLET SEDIMENTATION IN CONTINUOUS FLOWING SYSTEM TO CONTROL ENZYME-SUBSTRATE REACTION BY DIFFUSION AND GRAVITY N64-15211 07-16

DIFFUSION AIR POLLUTION FOR CIRCULATION PATTERN SURVEY N64-15486 07-21

METEOROLOGY - DIFFUSION DATA FOR OCEAN BREEZE AND DRY GULCH PROGRAMS N64-15487 07-21

DIFFUSION OF CHROMIUM IN NICKEL
AEET/CD/17 N64-15917 07-25

DIFFUSION, SOLUBILITY, & DISTRIBUTION COEFFICIENT OF ZINC IN GALLIUM ARSENIDE & GALLIUM PHOSPHIDE
SEL-63-147 N64-16991 09-25

DIFFUSION OF COBALT AND IRON IN IRON-ALUMINUM ALLOYS N64-17034 09-25

DIFFUSION OF COBALT IN NICKEL-CHROMIUM ALLOY AND PLASTIC DEFORMATION OF ALLOYS N64-17035 09-25

SELF-DIFFUSION OF IRON AND DIFFUSION OF COBALT IN IRON-COBALT ALLOYS N64-17036 09-18

RELATION BETWEEN DIFFUSION AND HIGH TEMPERATURE RESISTANCE TO PLASTIC DEFORMATION OF NICKEL ALLOYS
N64-17037 09-18

DIFFUSION IN NICKEL ALLOY SOLID SOLUTIONS
N64-17038 09-25

DIFFUSION OF SILVER IN POLYCRYSTALLINE COPPER AND COPPER-ANTIMONY ALLOY N64-17039 09-25

EFFECTS OF CRYSTAL ORIENTATION ON DIFFUSION AND ADSORPTION IN METALS N64-17040 09-25

SELF-DIFFUSION COEFFICIENT AT BOUNDARIES OF GRAINS OF SILVER N64-17043 09-25

REACTION DIFFUSION IN CHROMIUM-NITROGEN SYSTEM
N64-17070 09-07

DIFFUSION AND ABSORPTION OF GASES IN PLASTIC-WALLED IONIZATION CHAMBERS N64-17109 09-23

MOLYBDENUM AND ITS ALLOYS - SHEET FABRICATION AND BONDING PROCESSES, INFAB ATMOSPHERE PURITY STUDIES
N64-17214 09-18

IONIC DIFFUSION AND ACTIVATION OF AQUEOUS RARE-EARTH CHLORIDE SOLUTIONS
IS-770 N64-17739 09-23

LOUIE III - FORTRAN IBM 7090 PROGRAM FOR CALCULATING CRITICALITY CONSTANT & CRITICAL FLUX OF MULTIREGION REACTOR - NEUTRON DIFFUSION CODE
EUR-532.E N64-17812 09-20

VENTILATION-PERFUSION RELATIONSHIP IN GAS EXCHANGE OF LUNGS N64-17939 10-16

TOPOGRAPHICAL DISTRIBUTION OF PERFUSION AND VENTILATION OF BLOOD IN LUNGS N64-17942 10-16

DETERMINATION OF PERFUSION & PERFUSION-VENTILATION RATIO OF LUNG N64-17944 10-16

PERFUSION OF LUNGS OF HUMAN WITH ASTHMA
N64-17945 10-16

DISTRIBUTION OF LUNG DIFFUSING CAPACITY IN ANESTHETIZED DOG - BLOOD FLOW N64-17946 10-16

HITTING AND MARTINGALE CHARACTERIZATIONS OF ONE-DIMENSIONAL DIFFUSION - MARKOV PROCESS
MIT-TR-419 N64-18063 10-23

RADIATION ENHANCED DIFFUSION IN SEMICONDUCTOR MATERIALS N64-18127 10-25

DIFFUSION OF THERMAL NEUTRONS AND PHOTONS
MATT-231 N64-18340 10-24

PROPERTIES OF HELIUM DIFFUSION FILL DEVICE AND APPLICATION IN ULTRAHIGH VACUUM SYSTEMS
USAELRDL-TR-2420 N64-18367 10-23

SURFACE DIFFUSION SATURATION OF METALS AND REFRACTORY SURFACE COATINGS
JPRS-24165 N64-18401 10-18

CELL MODEL IN TERMS OF PARTITION FUNCTIONS OF DIFFUSE PHASE TRANSITION
ONR-TR-RLT-73 N64-18463 10-25

MOTION EQUATIONS FOR HYDROGEN AND HELIUM IONIC DIFFUSION IN GEOMAGNETIC FIELD
AFCRL-64-75 N64-18635 11-12

NEUTRON BEAM ENERGY DETERMINED BY DIFFUSION THROUGH LIQUID NITROGEN AND OXYGEN
FTD-MT-63-82/1&2&3&4 N64-18677 11-23

RADIOACTIVE ISOTOPE STUDY OF INFLUENCE OF REFRACTORY METAL ON SELF-DIFFUSION OF IRON IN IRON ALLOYS
FTD-MT-63-40/1&2 N64-18752 11-25

EFFECT OF CARBON CONTENT ON DIFFUSION OF HYDROGEN IN CARBON STEELS
JPRS-24383 N64-19238 11-18

DIFFUSED CHROMIUM COATINGS FOR RELAY COMPONENTS - METALLURGY AND SURFACE EFFECTS N64-19533 12-17

DIFFUSION OF MESONS IN HELIUM - QUANTUM MECHANICS
FTD-TT-63-1093/1&2 N64-19756 12-23

DIFFUSION OF POTASSIUM IN LIQUID METAL CELL
EDR-3814 N64-19798 12-06

SOLID STATE DIFFUSION IN METALS AND ALLOYS
AEC-TR-6313 N64-19886 12-25

HISTORY OF THEORIES ON ORIGIN OF SOLAR SYSTEM - ANGULAR MOMENTUM & EDDY DIFFUSION IN HYPOTHETICAL NODEL SOLAR NEBULA
AFCRL-64-167 N64-20391 13-29

OXYGEN DIFFUSION INTO REFRACTORY METALS-NIOBIUM N64-20806 14-25

DEVIATION FROM IDEAL DIFFUSION BEHAVIOR OF FISSION RARE GASES IN REACTOR MATERIALS
EUR-595.E N64-20832 14-23

FINITE DIFFERENCE METHOD FOR SOLVING SPACE-TIME DIFFUSION EQUATION IN TWO-GROUP APPROXIMATION
EUR-596.E N64-20833 14-20

DIFFUSION FAILURE MODES IN STRESSED TANTALUM AND TANTALUM OXIDE THIN FILM CAPACITORS
N64-20973 14-25

ACTIVATION ENERGY AND COEFFICIENTS OF SELF-DIFFUSION IN NICKEL N64-21188 14-18

SOLUBILITY AND DIFFUSION STUDIES OF TRANSITION ELEMENTS IN LIQUID ALKALI METALS
AI-64-75 N64-21476 14-18

RARE GAS DIFFUSION IN SOLIDS
EUR-259.D N64-21705 15-25

DIFFUSION OF TITANIUM-44 AND VANADIUM-48 IN TITANIUM
ORNL-3616 N64-21830 15-18

DIFFUSION MOBILITY OF ZIRCONIUM IN ZIRCONIUM-NIOBIUM ALLOYS
FTD-TT-63-258/1&2 N64-21944 15-18

KINETICS OF SURFACE DIFFUSION CONTROLLED WHISKER GROWTH
TR-4 N64-22297 15-18

EFFECT OF DIFFUSED CHROMIUM PLATING ON MECHANICAL

PROPERTIES OF ZIRCONIUM-MOLYBDENUM ALLOY
A745 N64-22587 15-18

PREDICTION OF DIFFUSION DOWNWIND FROM LINE SOURCES
AFCRL-64-163 N64-22608 15-11

PERFORMANCE OF POROUS ELECTRODES IN DIFFUSION CONDITION OF FEEDING REAGENTS
FTD-TT-63-722/1&2 N64-22659 15-07

DIFFUSION IN BODY-CENTERED CUBIC METALS - ZIRCONIUM, VANADIUM, NIOBIUM AND TANTALUM
ORNL-3617 N64-22948 16-18

METHOD OF STUDYING HIGH ENERGY SECONDARY BEAMS IN VACUUM AND IN DIFFUSING MEDIUM
CERN-64-11 N64-23873 16-23

DIFFUSION BONDING OF REFRACTORY METAL ALLOYS
RDR-1322-7 N64-23925 16-18

SELF-DIFFUSION COEFFICIENT OF LIQUID MERCURY USING RADIOACTIVE TRACER
ARL-64-114 N64-24204 16-11

THERMAL UPPER LIMIT ON EDDY DIFFUSION IN MESOSPHERE AND LOWER THERMOSPHERE
N64-24232 16-12

DIFFUSION AND OXIDATION PROCESSES IN ALLOY UNDER CONDITIONS OF THERMAL CYCLING N64-24534 17-18

EXTRACTION OF OXYGEN FROM SEA WATER BY DIFFUSION THROUGH THIN PLASTIC MEMBRANES
AD-437359 N64-24807 17-16

PERFORMANCE CHARACTERISTICS OF THIN GAS DIFFUSION ELECTRODES FOR FUEL CELLS
REPT.-2 N64-25085 17-06

DIFFUSION EXPERIMENT TO DETERMINE CROSS SECTION FOR ELECTRON-GAS COLLISIONS
ARDD-3331-5 N64-25093 17-23

DYNAMIC EQUATIONS OF AIR INTAKE & CONTROL SYSTEMS FOR TURBOJET ENGINES OPERATING IN TURBULENT ATMOSPHERES N64-25434 17-04

MULTIPLE SCATTERING IN DIFFUSION APPROXIMATION
IDA/HQ-63-2209 N64-25499 17-23

POLARIZATION THEORY FOR POROUS DIFFUSION ELECTRODE SYSTEM - KINETICS OF REDOX REACTION
AFCRL-64-536 N64-26307 18-07

DIFFUSION AND COMBUSTION OF HYDROGEN IN AIR AT SUPERSONIC SPEEDS N64-26328 18-11

OXIDATION, ETCHING, AND DIFFUSION PROCESSES FOR FUNCTIONAL ELECTRONIC BLOCKS AND OTHER PLANAR SEMICONDUCTOR DEVICES
ASD-TDR-8-133-3 N64-26502 18-17

RADIAL VARIATION OF EDDY DIFFUSIVITY TENSOR COMPONENTS FOR THREE-DIMENSIONAL MASS TRANSFER
IS-830 N64-26523 18-11

THERMIONIC TRANSDUCER, CONVERTER, DIODES, SINGLE CRYSTAL ELECTRON WORK FUNCTION, TUNGSTEN ELECTRON EMISSION, AND SURFACE DIFFUSION FROM CALCIUM TO TUNGSTEN
WGLR-2/1964 N64-26756 18-06

TWO PHYSICAL MODELS FOR OPERATION OF POROUS GAS DIFFUSION ELECTRODES IN FUEL CELLS - SIMPLE PORE MODEL AND THIN FILM MODEL
REPT.-7 N64-26931 18-06

DIFFUSION STUDIES OF COMMERCIALLY AVAILABLE COATING ON MOLYBDENUM ALLOY SHEET AT 2500 DEG F
N64-27022 19-19

METALLURGICAL EXAMINATION OF INTERMETALLIC DIFFUSION BETWEEN ZIRCONIUM-NIOBIUM ALLOY AND TYPE 316 STAINLESS STEEL
CNLM-5232 N64-27419 19-18

SPEED DISTRIBUTION IN WELL-COLLIMATED MOLECULAR BEAM PRODUCED BY NEARLY COLLISIONLESS EFFUSION
UVA-4-P-1 N64-27559 19-11

TANTALUM USED AS CARBON DIFFUSION BARRIER BETWEEN TUNGSTEN AND GRAPHITE
WRE-TN-CPD-54 N64-28061 20-14

SOLUBILITY AND DIFFUSION OF ULTRAPURE TRANSITION ELEMENTS IN ULTRAPURE ALKALI METALS
NASA-CR-54094 N64-28087 20-14

DIFFUSION APPROXIMATION FOR THERMAL RADIATION IN GASES WITH JUMP BOUNDARY CONDITION
NASA-RP-282 N64-28351 20-13

BIBLIOGRAPHY ON MAGNETIC DIFFUSION & DRIFT INSTABILITIES OF PLASMAS
MATT-285 N64-28421 20-24

GRAIN BOUNDARY AND LATTICE DIFFUSION OF CHROMIUM IN ZIRCONIUM
AEET/CD/22 N64-28658 20-07

DIFFUSION OF NONVOLATILE METALLIC ELEMENTS IN GRAPHITE
UCRL-7324 N64-28738 20-23

DYNAMIC DIFFUSION PROCESSES IN EXOSPHERE
N64-28945 20-12

DIFFUSION OF CARBON IN ALPHA IRON
WVT-RR-6402 N64-28979 20-25

RADIATION RESISTANCE OF SILICON WEBBED DENDRITIC SOLAR CELLS - DIFFUSION TECHNIQUES, DRIFT FIELD, STRUCTURES, AND EFFECT OF VACUUM ENVIRONMENT ON DAMAGE RATES N64-29160 21-06

INTERACTION ENERGIES, CHARGE EXCHANGE CROSS SECTIONS, & DIFFUSION CROSS SECTIONS FOR COLLISIONS OF ATOMS OF NITROGEN & OXYGEN WITH CORRESPONDING POSITIVE IONS N64-29715 21-11

DIFFUSION THEORY FOR HOMOGENEOUS & HETEROGENEOUS NUCLEAR REACTORS
NASA-CR-52959 N64-29786 21-23

ELECTRON PROBE ANALYSIS OF BETA-TITANIUM-VANADIUM, BETA-TITANIUM-NIOBIUM, AND CHROMIUM-VANADIUM DIFFUSION SYSTEMS
NRL-6141 N64-29962 21-10

DIFFUSION OF SILICON DURING FORMATION OF SILICIDE COATINGS ON TITANIUM, TANTALUM, MOLYBDENUM, AND IRON
FTD-TT-63-262 N64-29985 21-11

DIFFUSION OF CESIUM ARC PLASMAS ACROSS MAGNETIC FIELDS OF DIFFERING STRENGTHS
AD-437524 N64-30172 21-24

DETERMINATION OF KINETICS OF DIFFUSION AND OSMOSIS USING RADIOACTIVE ISOTOPES N64-30395 22-16

DIFFUSION, SOLUBILITY, AND DISTRIBUTION COEFFICIENT OF ZINC IN GALLIUM ARSENIDE AND GALLIUM PHOSPHIDE
SEL-63-104 N64-31045 22-23

PRELIMINARY DEFORMATION INFLUENCE ON SELF-DIFFUSION IN SILVER AND ITS ALLOYS
N64-31420 23-14

SOLID STATE SYNCHRO CONVERSION DEVICES
N64-31493 23-09

PHOSPHORUS DOPING OF CADMIUM TELLURIDE SINGLE CRYSTALS FOR P TYPE AND JUNCTION DIFFUSION WITH ZINC FOR N TYPE SEMICONDUCTORS N64-31644 23-25

VISIBLE ELECTROLUMINESCENCE FROM P-N JUNCTIONS IN DIFFUSION BONDED SEMICONDUCTORS
N64-31646 23-23

IMPURITY DIFFUSION IN INTEGRATED SILICON DEVICE
ASD-TDR-63-316, VOL. IV N64-32186 23-25

EDDY DIFFUSIVITY AND HEAT TRANSFER IN TURBULENT BOUNDARY LAYER
RR-42 N64-32793 24-11

DIFFUSION BONDING OF STAINLESS STEEL WIRE MESH REINFORCEMENT TO BERYLLIUM TUBE FOR HYPERVELOCITY IMPACT TARGET
NASA-CR-54222 N64-34010 24-17

DIFFUSION COEFFICIENT
EFFECT OF DISLOCATIONS ON EFFECTIVE DIFFUSION

COEFFICIENTS OF GALLIUM, INDIUM, ANTIMONY, AND ARSENIC IN GERMANIUM N64-12759 04-25

UNSTEADY STATE ANALYSIS IN THERMAL DIFFUSION CELL AND DETERMINATION OF DIFFUSION COEFFICIENT AND SORET COEFFICIENT
NLR-1167 N64-13343 04-13

DIFFUSION COEFFICIENT OF TANTALUM IN SINGLE CRYSTAL GERMANIUM
FTD-MT-63-107 N64-14386 06-25

DIFFUSION COEFFICIENTS OF BODY CENTERED CUBIC METALS USING RADIOACTIVE ISOTOPES OF IRON AND CHROMIUM
AD-432969 N64-21307 14-18

MATHEMATICAL EQUATIONS FOR DIFFUSION COEFFICIENT OF HYDROGEN PERMEATION THROUGH METAL STRIPS
QR-1 N64-22051 15-07

DIFFERENCES IN BINARY DIFFUSION COEFFICIENTS RELATED TO MULTICOMPONENT GAS MIXTURES
FTD-TT-64-198/1&2 N64-32234 23-11

DIFFUSION EFFECT
LIQUID METAL CORROSION OF SOLID METALS - DIFFUSION EFFECTS N64-20787 14-07

EFFECT OF DIFFUSION FACTORS ON FLAME STABILITY - HEAT EXCHANGE IN HORIZONTAL SURFACES OF HEAT INSULATING STRUCTURES
FTD-TT-62-1804/1&2&4 N64-21927 15-23

DIFFUSION EFFECTS OF SILICATE-BASE OXIDATION RESISTANT COATING ON MOLYBDENUM-TITANIUM ALLOY
NASA-TN-D-2039 N64-28321 20-17

ULTRAHIGH FREQUENCY SILICON POWER TRANSISTORS - DIFFUSION EFFECTS, ION BOMBARDMENT DOPING, AND EPITAXIAL DEPOSITION
AL-TDR-64-207 N64-30982 22-09

DIFFUSION WELDING
DIFFUSION WELDING APPLIED TO ELECTROVACUUM APPARATUS N64-24257 17-18

VACUUM DIFFUSION WELDING OF REFRACTORY METALS AND ELECTROSLAG WELDING OF HIGH ALLOY STEEL
JPRS-27115 N64-33850 24-17

DIFLUOROAMINE
DECOMPOSITION OF DIFLUOROAMINE AND SYNTHESIS OF METAL DIFLUOROAMINE COMPOUNDS - OXIDIZER CHEMISTRY
EC-572 N64-14487 06-07

CHEMICAL BEHAVIOR OF INORGANIC NITROGEN-FLUORINE COMPOUNDS AND SYNTHESIS OF METAL DIFLUOROAMINE COMPOUNDS - OXIDIZER CHEMISTRY
EC-599 N64-17645 09-26

DIGESTIVE SYSTEM
SA INTESTINE
ABDOMINAL & THORACIC PRESSURES AT DIFFERENT LUNG VOLUMES N64-17927 10-16

RADIO TELEMETRY STUDY OF PH OF DIGESTIVE SYSTEM
NASA-TT-F-9026 N64-27367 19-16

RADIOTELEMETRY STUDY OF DIGESTIVE FUNCTIONS N64-30237 22-16

PHYSIOLOGICAL STUDIES - BIOLOGICAL CYBERNETICS, FLOATING RECORDING DEVICE FOR DIGESTIVE SYSTEM, AND NYSTAGMUS RECORDING INSTRUMENTATION
FTD-TT-64-386/1&2 N64-31074 22-16

DIGITAL COMMUNICATIONS SYSTEM
MECHANIZATION PROCEDURE FOR ABSTRACT SYNTHESIS IN DIGITAL COMMUNICATION SYSTEM
JPRS-17879 N64-10726 02-20

INTEGRATED CIRCUITS - AMPLIFIERS, TRANSRECEIVERS & DIGITAL COMMUNICATIONS SYSTEM
AD-423906 N64-14090 05-09

SYNCHRONIZATION FOR DIGITAL COMMUNICATION VIA SATELLITE N64-16161 08-08

COMPATIBLE INTEGRATED CIRCUITS AND THIN FILM TECHNIQUES - APPLICATIONS TO ELECTRONIC AMPLIFIERS AND DIGITAL COMMUNICATIONS SYSTEMS
QR-10 N64-19119 11-09

INTEGRATED CIRCUITS - TRANSCEIVERS AND CIRCUITS FOR DIGITAL COMMUNICATION SYSTEM
AD-600961 N64-24390 17-09

HIGH FREQUENCY DIGITAL COMMUNICATION SYSTEM OPERATING UNDER MULTIPATH PROPAGATION AND DOPPLER SHIFT
NCR-3F N64-30736 22-08

DIGITAL DATA COMMUNICATIONS SYSTEM BASED ON DISTRIBUTED NETWORK - TRAFFIC PRECEDENCE AND OVERLOAD - RAND PROJECT
RM-3638-PR N64-33229 24-08

DIGITAL DATA COMMUNICATIONS SYSTEM BASED ON DISTRIBUTED NETWORK - HIGH DATA RATE SWITCHING NODE DESIGN - RAND PROJECT
RM-3763-PR N64-33230 24-08

SECURITY SAFEGUARDS FOR PROPOSED DIGITAL DATA COMMUNICATIONS NETWORK SYSTEM
RM-3765-PR N64-33372 24-08

DIGITAL COMPUTER
CF ANALOG COMPUTER
POWER SPECTRAL METHOD OF DIGITAL COMPUTER CALCULATION OF WING GUST LOADS N64-10214 01-20

AUTOMATIC SEARCH METHODS FOR DIGITAL COMPUTER IN ESTIMATE OF OPTIMUM MISSILE MODEL PARAMETERS - DATA RETRIEVAL
SAD-129 N64-10273 01-04

APPLICATION OF COMPACTNESS HYPOTHESIS TO VISUAL IMAGE RECOGNITION BY GENERAL-PURPOSE DIGITAL COMPUTER
JPRS-18126 N64-10742 02-16

STUDIES OF LEARNING MACHINE AND DIGITAL INTEGRATOR AND METHODS FOR CODING IN AUTOMATIC CONTROL
JPRS-19518 N64-10826 02-20

ACCURACY OF DIGITAL AND ANALOG COMPUTERS FOR AUTOMATIC CONTROL IN COMBINED DIGITAL INTEGRATOR SYSTEM N64-10828 02-20

IMPROVED RELIABILITY OF DIGITAL SYSTEMS THROUGH LOGICAL REDUNDANCY TECHNIQUES
NASA-CR-52866 N64-11331 02-20

MONITORING AIRCRAFT TAKEOFF GROUND RUN PERFORMANCE BY DIGITAL COMPUTER PREDICTOR
AGARD-422 N64-13879 05-04

VARIABLE AREA MAGNETOGRAM ANALYZER - SCANNER, DIGITIZER, ADDER, DURATION-MODULATION CONVERTER, SUBTRACTOR, AVERAGER, AND PUNCHED CARD OUTPUT
AFCRL-63-939/2/ N64-15054 07-09

COMMAND STRUCTURE AND NOTATION SYSTEMS FOR FIVE SOVIET DIGITAL COMPUTERS
RM-3804-PR N64-16046 07-20

LOGIC DESIGN OF SYMBOLIC LANGUAGE FOR DIGITAL COMPUTER - ADAM
AFCRL-63-510 N64-16431 08-20

CONSTRUCTION OF NEWCOMB OPERATORS ON DIGITAL COMPUTERS FOR DEVELOPMENT OF PLANETARY DISTURBING FUNCTION
NASA-CR-55844 N64-16768 08-09

MICRO-OPERATION SEQUENCES IN MICROPROGRAM BY SINGLE AUTOMATIC CONTROL DEVICE - DIGITAL COMPUTER
JPRS-23816 N64-17349 09-20

SHOCK SPECTRUM ANALYSIS USING DIGITAL COMPUTER AND FEEDBACK CONTROL METHODS N64-18548 11-23

MECHANICS AND GEOMETRY OF GENERAL ORBIT CHANGE OF EARTH SATELLITE ORBIT CAUSED BY SINGLE IMPULSE - DIGITAL COMPUTER PROGRAM
ESD-TDR-63-481 N64-19772 12-29

DIGITAL COMPUTER FOR TRAINING - DESIGN, LOGIC COMPONENTS, AND PROGRAMMING
JPRS-24498 N64-19903 12-20

PLACE - PROGRAMMING LANGUAGE FOR AUTOMATIC CHECKOUT EQUIPMENT AND ADAPTATIONS FOR DIGITAL COMPUTER CONTROLLED CHECKOUT MACHINE
RTD-TDR-4171, VOL. 1 N64-20171 13-20

DIGITAL COMPUTER APPLICATIONS IN STRUCTURAL ENGINEERING - BIBLIOGRAPHY N64-20613 13-20

DIGITAL COMPUTER PROGRAM FOR MATRIX ANALYSIS OF AEROSPACE STRUCTURES
FDL-TDR-64-18 N64-21439 14-20

LEAST SQUARES METHOD FOR PRESENTING STATE EQUATION DATA IN FORM FOR CALCULATION ON DIGITAL COMPUTER
UCRL-7687 N64-21478 14-20

DIGITAL COMPUTER PROGRAMS FOR CALCULATING BEHAVIOR OF MATERIALS IN SOLID PROPELLANT ROCKET EXHAUST ENVIRONMENT
RTD-TDR-64-43 N64-21596 15-27

DIGITAL PROGRAM FOR EVALUATION OF THERMAL, KINETIC, AND HYDROGEN DIFFUSION RESPONSES IN CORE OF SNAP 2/10A REACTOR
NAA-SR-84.4 N64-21790 15-23

SPACE RADIO SYSTEMS FACILITY WITH DIGITAL COMPUTER EQUIPMENT AND LOOP ANTENNA - RADIO COMMUNICATION
SSD-TDR-64-40 N64-22569 15-08

DIGITAL COMPUTER METHOD FOR DESIGNING INVISCID WALL CONTOUR OF SUPERSONIC AXISYMMETRIC NOZZLE WITH UNIFORM PARALLEL FLOW AT EXIT
AEDC-TDR-64-110 N64-22570 15-02

COMPUTATION OF POWER REQUIREMENTS FOR DIGITAL COMPUTER AND ANALOG COMPUTER ACTUATION SYSTEMS
REPT.-747 N64-22799 16-20

DIGITAL COMPUTER METHODS FOR ANALYSIS AND SYNTHESIS OF RADAR EMISSION SPECTRUMS
N64-22820 16-09

ELECTRONIC DIGITAL COMPUTER USED IN REDUCTION OF ANTENNA PATTERN DATA N64-22822 16-09

CIRCUIT AND CHARACTERISTICS OF HIGH SPEED COMPARATOR FOR DIGITAL COMPUTERS
N64-23548 16-09

DIGITAL COMPUTERS FOR REAL TIME TRAINING SIMULATION
AMRL-TDR-64-22 N64-23971 16-20

AUTOMATIC CONTROL OF ELECTRONIC DIGITAL COMPUTER FUNCTIONS N64-24693 17-20

LOGICAL DESIGN AND CONSTRUCTION OF TRANSISTORIZED DIGITAL COMPUTER FOR MICROMETEORITE DETECTION SYSTEMS
AFCRL-64-9A, APPEND. N64-24986 17-09

DIGITAL COMPUTER TECHNIQUES FOR TERMINAL AREA AIR TRAFFIC CONTROL N64-25072 17-22

DIGITAL COMPUTER PROGRAM TO CALCULATE PERFORMANCE OF COMBUSTION DRIVEN SHOCK TUNNEL
TN-64-1 N64-25184 17-11

SELF-DIAGNOSIS OF ELECTRONIC DIGITAL COMPUTERS
R-207 N64-25406 17-20

PREDICTING IMPACT POINT OF BALLISTIC ROCKET USING DIGITAL IMPACT COMPUTER
WRE-TN-TRD-12 N64-25654 17-04

DIGITAL COMPUTER ANALYSIS OF CROSSED FIELD ELECTRON GUNS
TR-71 N64-25702 17-23

MATHEMATICAL PROBLEMS IN CREATING DIGITAL GRID ANALYZER
FTD-TT-62-1823/1&2 N64-25756 17-20

HIGH SPEED MEMORY UNITS FOR DIGITAL COMPUTERS
JPRS-25360 N64-25851 18-20

ELECTRONIC DIGITAL COMPUTERS FOR CALCULATION OF ACOUSTIC-GRAVITY WAVE PROPAGATION IN EARTH ATMOSPHERE N64-25956 18-05

ADAPTIVE PROPERTIES IN SPACE VEHICLES THROUGH ONBOARD DIGITAL COMPUTER CONTROL
AL-TDR-64-62 N64-26171 18-30

SHAPE RECOGNITION BY DIGITAL COMPUTER
N64-26381 18-20

MICROMINIATURE DIGITAL INTEGRATOR USING MICROPOWER CIRCUITS N64-26444 18-09

DIGITAL COMPUTERS, COMPUTER COMPONENTS, PSYCHOLOGY, AND CONTROL
ESD-TDR-64-57 N64-26888 18-01

SOVIET DIGITAL AND ANALOG COMPUTERS, MONITORING AND CONTROL MACHINES, DUPLICATORS, AND MULTIPLIERS
JPRS-25435 N64-27502 19-08

ELECTROMAGNETIC INTERFERENCE BY RADIATION AND CONDUCTION IN DIGITAL COMPUTERS
NASA-CR-58235 N64-29192 21-08

OPTIMUM CONTROL FACTORS FOR SINGLE-LOOP LINEAR CIRCUIT - DIGITAL COMPUTATION OF VARIANCE AND AVERAGE VALUES OF NONLINEAR CONTROL SYSTEMS
FTD-TT-63-387/1&2 N64-29322 21-09

HIGH SPEED DIGITAL COMPUTATION OF NONSTATIONARY RANDOM PROCESS TRANSFER THROUGH NONLINEAR CONTROL SYSTEMS WITH VARIABLE PARAMETERS
N64-29324 21-09

DIGITAL COMPUTER PROGRAM FOR PREDICTING LUNAR LANDING PHENOMENA N64-29629 21-10

MEMORY CIRCUITS FOR REDUCTION OF PRINTED INFORMATION BY DIGITAL COMPUTERS
N64-29740 21-20

ERROR IN BINARY MULTIPLICATION BY DIGITAL COMPUTERS N64-29741 21-20

MAGNETIC TAPE-DRIVE UNIT FOR DIGITAL COMPUTER
JPRS-26496 N64-29756 21-09

NEED FOR FASTER AND LARGER DIGITAL COMPUTERS
P-2863 N64-29765 21-20

IBM 1620 DIGITAL COMPUTER PROGRAMS FOR DESIGN OF COAXIAL DIPOLE PARAMETRIC AMPLIFIER ANTENNA
AFCRL-64-447 N64-30001 21-09

INFORMATION EXTRACTION AND VISUAL DISPLAY DURING COMPUTER OPERATION
FTD-TT-64-236/1&2&4 N64-30162 21-09

DIGITAL COMPUTER ADDRESSING METHODS - OPTIMUM SCHEME FOR MISSILE GUIDANCE COMPUTER
EF-3765-4 N64-30182 21-20

RANDOM BREAKDOWNS IN DIGITAL COMPUTERS
N64-30218 22-09

COMPUTER PROGRAMMING BASED ON SET OF CONTROL WORDS AND ON DIGITAL COMPUTER STRUCTURE
N64-30415 22-29

MATHEMATICAL MODEL AND DIGITAL COMPUTER STUDY OF ABNORMAL PHYSIOLOGICAL PHENOMENA IN BALLISTOCARDIOGRAM
REPT.-11 N64-30493 22-16

METHOD FOR INTEGRATING NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS APPLIED TO SYSTEM OF TWO EQUATIONS FOR DIGITAL COMPUTER SOLUTION
RM-4240-PR N64-30627 22-20

DIGITAL COMPUTER METHOD FOR CALCULATION OF ACID DISSOCIATION CONSTANTS
IS-822 N64-30667 22-07

OPTIMAL REENTRY GUIDANCE STUDY - DIGITAL COMPUTER PROGRAM

8R-3060-2 N64-30776 22-22

BINARY NUMBER REPRESENTATIONS FOR DIGITAL COMPUTER
EF-3765-3 N64-30892 22-20

ESTIMATION OF PERFORMANCE OF DIGITAL COMPUTER SYSTEMS APPLIED TO DATA PROCESSING
ESD-TDR-64-194 N64-31109 22-20

DIGITAL STABILIZATION COMPUTER MADE FROM MICROELECTRONIC COMPONENTS N64-31494 23-09

DATA CONVERTER SYSTEM TO DECODE DOUBLE-SPEED SYNCHRO INFORMATION INTO DECIMAL READOUT N64-31495 23-09

HIGH SPEED DIGITAL COMPUTER METHODS FOR DIFFERENCE EQUATION SOLUTIONS OF MILDLY NONLINEAR ELLIPTIC BOUNDARY VALUE PROBLEMS
NRC-474 N64-31899 23-20

VOICE IDENTIFICATION TECHNIQUES - DATA PROCESSING SYSTEM
RADC-TDR-64-312 N64-32117 23-08

MODULAR DIGITAL COMPUTER FOR ARITHMETIC OPERATIONS
AL-TDR-64-86 N64-32145 23-20

DIGITAL COMPUTER METHOD FOR INVESTIGATING LIGHT DIFFRACTION BY ULTRASONIC WAVES
REPT.-6-74-64-35 N64-32307 23-23

OPERATING INSTRUCTIONS AND TRANSISTOR AND DIODE MODELS OF NET-1 DIGITAL COMPUTER FOR SIMULATING DIRECT CURRENT STEADY STATE AND TRANSIENT BEHAVIOR OF ELECTRICAL CIRCUITS
LA-3119 N64-32936 24-09

DIGITAL COMPENSATOR FOR AUTOMATIC CONTROL SYSTEMS
NASA-CR-59053 N64-32988 24-06

LOGICAL DESIGN OF SPECIAL PURPOSE ONBOARD DIGITAL COMPUTER FOR OPTIMUM THRUST CONTROL
NASA-CR-59077 N64-32989 24-27

DIGITAL FEEDBACK CONTROL SYSTEM
NASA-CR-59035 N64-32990 24-06

DATA TRANSMISSION FROM AUTOMATIC MICROSCOPE TO DIGITAL SCANNER AND COMPUTER FOR BIOMEDICAL RESEARCH
NASA-CR-58872 N64-33042 24-15

MECHANIZING MOTION EQUATIONS OF HELICOPTERS & V/STOL AIRCRAFT BY DIGITAL COMPUTERS
NAVTRADEVCEN-1205-3 N64-33525 24-10

DIGITAL COMPUTER ANALYSIS OF LAUNCH DYNAMICS OF FLEXIBLE ROCKET VEHICLE
NASA-CR-60021 N64-33619 24-10

DIGITAL DATA
DIGITAL SOLAR ASPECT SENSING AND ON-BOARD DATA PROCESSING FOR SPIN STABILIZED SATELLITE ATTITUDE DETERMINATION
NASA-TM-X-50996 N64-10091 01-30

DIGITAL RECORDING AND PROCESSING OF FLIGHT PATH DATA FROM THEODOLITE AND RADAR MEASUREMENT VALUES N64-10235 01-22

DIGITAL CONTROL & DATA PROCESSING EQUIPMENT FOR ANTENNA POINTING SYSTEM USED FOR SATELLITE TRACKING N64-10886 02-08

TWO-DIMENSIONAL ABSOLUTE DIGITAL DATA PATH CONTROL SYSTEM
NASA-CR-52686 N64-11105 02-20

ANALOG-DIGITAL DATA RECORDING EQUIPMENT FOR INVESTIGATING JET ENGINE PERFORMANCE N64-13924 05-20

DISCRETE FILTERS FOR DIGITAL DATA N64-15481 07-20

MEDIUM DATA RATE DIGITAL TELEMETRY SYSTEM N64-16154 08-08

SCANNING DEVICE FOR PHOTOGRAPHIC FILM, WITH OUTPUT AS DIGITAL DATA FOR COMPUTER PROCESSING
UCRL-7619 N64-17291 09-15

TECHNIQUES FOR STATISTICAL ANALYSIS OF RANDOM DIGITAL DATA N64-18559 11-20

INCREMENTAL DIGITAL POSITIONING SERVOSYSTEM WITH DIGITAL RATE FEEDBACK
NASA-CR-53867 N64-19795 12-06

DIGITAL DATA HANDLING METHODS FOR FEEDBACK CONTROL SYSTEMS
NASA-CR-53868 N64-19796 12-06

AUTOMATIC COLLECTION OF GEOMAGNETIC DATA IN DIGITAL FORM - INSTRUMENTATION
AFCRL-64-470 N64-27435 19-15

COMPUTER PROGRAMS FOR ANALYSIS OF CONNECTIVITIES AND SHAPES OF REGIONS IN DIGITIZED IMAGES
NASA-CR-58608 N64-28836 20-15

ANALYZER FOR ERROR DETECTION AND ANALYSIS OF SPACEBORNE DIGITAL TAPE RECORDERS
NASA-TN-D-1863 N64-32834 24-15

COST ESTIMATE OF DIGITAL DATA COMMUNICATION SYSTEMS
RM-3766-PR N64-33232 24-01

ERROR CONTROL TECHNIQUES - CODING AND RETRANSMISSION ON REQUEST FOR RELIABLE DIGITAL DATA TRANSMISSION
RADC-TDR-64-149, VOL. V N64-33541 24-08

DIGITAL SIMULATION
DIGITAL SIMULATION OF ORBIT CALCULATION SYSTEM
PUBL. 552-A-30 N64-17809 09-29

MATHEMATICAL MODELING AND DIGITAL SIMULATION FOR SYSTEMS ANALYSIS IN OPERATIONS RESEARCH
RADC-TDC-63-407 N64-19115 11-20

DIGITAL SIMULATION OF SURFACE-TO-AIR GUIDED MISSILE
SAD-126 N64-20270 13-20

DIGITAL COMPUTER PROGRAM FOR SOLVING REACTOR KINETICS EQUATIONS
NAA-SR-9943 N64-28668 20-23

DIGITAL SIMULATION OF HOT-POTATO ROUTING IN BROADBAND DISTRIBUTED COMMUNICATIONS NETWORK
RM-3103-PR N64-33227 24-08

DIGITAL TECHNIQUE
DIGITAL TECHNIQUES FOR RADAR LAND MASS SIMULATION SYSTEMS
NAVTRADEVCEN-1025-2 N64-12076 03-08

DIGITAL FILTERING TECHNIQUES APPLIED TO DATA PROCESSING N64-15320 07-09

LOW POWER INTEGRATED DIGITAL GATE CIRCUITS
NASA-CR-53512 N64-19980 12-09

LINEAR AND NONLINEAR PROBLEMS IN DIGITAL STRUCTURE ANALYSIS - DOUGLAS FORCE METHOD N64-20942 14-33

DIGITAL MEASURING SYSTEMS AND ANALOG-TO-DIGITAL CONVERTERS N64-21751 15-20

DIGITAL TECHNIQUES FOR RADAR LAND MASS SIMULATION
AD-600347 N64-21804 15-10

MICROPOWER OPERATIONS FOR DIGITAL LOGIC CIRCUITS N64-26441 18-09

MINIMUM POWER DIGITAL CIRCUITS FOR MARINER II AND OTHER SPACECRAFT N64-26446 18-09

PROCESS IDENTIFICATION, SYNTHESIS, AND SELF-ADAPTIVE CONTROL OF ADVANCED AEROSPACE VEHICLES
ASD-TDR-63-854 N64-29973 21-06

DIGITAL RECORDING PROTON PRECESSION MAGNETOMETER SYSTEM - COMPUTER PROGRAMS

RR-64-4 N64-30017 21-15

DIGITAL SELECTOR SWITCH TESTING AND PACKAGING
MPR-6 N64-31617 23-09

DIGITAL METHOD FOR RESISTANCE MEASUREMENT
NASA-TN-D-2003 N64-31728 23-15

MARK II DIGITAL CORRELATOR AS ACOUSTIC SIGNAL DETECTOR N64-32266 23-23

DIGITAL-TO-ANALOG CONVERTER
S ANALOG-TO-DIGITAL CONVERTER

DIGITAL TO VOICE TRANSLATOR /DIVOT/
S COMPUTER
S VOCODER

DIHEDRAL EFFECT
VISCOUS FLUID FLOW AROUND DIHEDRAL ANGLES
NWL-1901 N64-15767 07-11

HEAVE AND PITCH RESPONSE OF FULLY WETTED SURFACE-PIERCING DIHEDRAL HYDROFOIL IN IRREGULAR SEAS
AD-438567 N64-18911 11-03

DILATATION
VIBRATION OF SPHERE FOR DETERMINING DILATATIONAL CONSTANTS OF VISCOELASTIC MATERIALS
CRREL-132 N64-19127 11-23

DILATATIONAL WAVE
EFFECTS OF LAYERING IN EARTH CRUST ON DILATATIONAL WAVES - SEISMOLOGY
TR-3 N64-29099 21-12

DILATOMETER
DILATOMETRIC EVALUATION OF STRAIN RATE, LOAD, TEMPERATURE, AND HUMIDITY EFFECTS ON POLYURETHANE & END CARBOXYL POLYBUTADIENES
SRI-12 N64-14024 05-26

DILATOMETRICAL ANALYSIS OF SINTERED ALUMINUM POWDER WITH VARIOUS OXIDE CONTENTS
EUR-1613.I N64-21195 14-18

DILUTION
DISSIPATION PROCESSES AND DEPARTURE FROM EQUILIBRIUM DURING IRREVERSIBLE PROCESSES IN DILUTE GASES
SUDAER-169 N64-12130 03-23

DIMENSIONAL ANALYSIS
DIMENSIONAL ANALYSIS OF METHODS FOR SCALING LINEAR DIMENSIONS OF CRATERS N64-12409 04-23

COMPUTER PROGRAM TO DETERMINE DIMENSIONALITY OF SIGNAL COLLECTION
RADC-TDR-64-212 N64-30939 22-20

DIMENSIONAL STABILITY
DIMENSIONAL INSTABILITY IN METALS
DMIC-MEMO-189 N64-26195 18-17

DIMENSIONAL STABILITY AND CHANGE OF PYROLYTIC CARBON UNDER BOMBARDMENT BY FISSION FRAGMENTS
BNI-1679 N64-26872 18-23

INFLUENCE OF DIMENSIONAL STABILITY OF CERAMIC MOLD ON PRECISION CASTING BY LOST WAX PROCESS N64-31519 23-17

DIMETHYL FORMAMIDE
THERMOCHEMICAL INVESTIGATION OF COMPLEX FORMED BY CYCLOTETRAMETHYLENE TETRANITRAMINE /HMX/ AND DIMETHYLFORMAMIDE /DMF/
AD-435690 N64-19132 11-07

DIMETHYL HYDRAZINE
BIOCHEMICAL AND PHARMACOLOGICAL STUDIES OF DIMETHYLHYDRAZINE
AMRL-TDR-63-127 N64-16584 08-16

X-RAY IRRADIATION 1,1-DIMETHYHYDRAZINE AND HYDRAZINE AT ROOM TEMPERATURE
NASA-TN-D-2452 N64-27225 19-26

PATHOLOGY AND TOXICOLOGY OF REPEATED DOSES OF HYDRAZINE AND DIMETHYLHYDRAZINE IN MONKEYS AND RATS
AMRL-TDR-64-48 N64-29938 21-16

DIODE
SA ELECTRON TUBE
SA PHOTODIODE
SA THERMIONIC DIODE
SA TUNNEL DIODE
SOLAR ENERGY THERMIONIC SYSTEM DEVELOPMENT - CONCENTRATORS AND DIODES
NASA-CR-52269 N64-10101 01-06

CURRENT PASSAGE THROUGH A PLASMA DIODE WITH HEATED CATHODE FOR MAGNETOGASDYNAMIC ENERGY CONVERSION
JPRS-19408 N64-10821 02-24

SEMICONDUCTOR LASER DIODES AS LIGHT AMPLIFIERS, OXYGEN GAS LASER LIGHT SOURCES
RADC-TDR-63-429 N64-12587 04-25

SEMICONDUCTOR DEVICES - DIODE MATERIALS STUDIES
AFCRL-63-552/A/ N64-13747 05-25

LUMINESCENCE INTENSITY-CURRENT-TEMPERATURE RELATIONSHIPS FOR CUPROUS SELENIDE-ZINC SELENIDE DIODES N64-13749 05-25

SILICON CARBIDE DIODES - ELECTROLUMINESCENT PHENOMENA N64-13750 05-25

PREPARATION OF MIXED CRYSTALS OF GALLIUM ARSENIDE AND GALLIUM PHOSPHIDE FOR CONSTRUCTION OF DIODES N64-13751 05-25

GROWTH OF MIXED CRYSTALS OF GALLIUM ANTIMONIDE & GALLIUM INDIUM ANTIMONIDE FOR DIODES N64-13752 05-25

RECOMBINATION RADIATION & LASER ACTION IN GALLIUM ARSENIDE DIODES
TDR-169/3250-11/TN-2 N64-13843 05-25

CONSTRUCTION OF CRYOGENIC DEWAR INCLUDING DESIGN OF JIG TO HOLD DIODES - SEMICONDUCTOR LASER AMPLIFIER TECHNIQUES /SEMLAM/
RADC-TDR-63-553 N64-16644 08-25

CONSTRUCTION OF INJECTION LASER FROM SINGLE SEMICONDUCTING GALLIUM ARSENIDE CRYSTAL DIODE N64-17871 10-25

ELECTRICAL AND OPTICAL PROPERTIES OF DIODES PREPARED FROM DIFFUSION OF MANGANESE AND ZINC INTO GALLIUM ARSENIDE - LASERS N64-17873 10-25

DIODE FLUORESCENCE DETECTION OF ZINC DIFFUSION INTO RARE-EARTH DOPED GALLIUM ARSENIDE AND INDIUM PHOSPHATE N64-17875 10-25

DEVICE FOR MEASURING ELECTRIC PROPERTIES OF TRANSISTORS AND DIODES
FTD-TT-63-1212/1 N64-19766 12-15

FABRICATION AND PROPERTIES OF GALLIUM ARSENIDE ELECTROLUMINESCENT DIODE AND OPTICALLY COUPLED SILICON TRANSISTOR
AD-428185 N64-19812 12-25

LOW TEMPERATURE CYLINDRICAL THERMIONIC CONVERTER AND MULTIPLE COLLECTOR DEVICE FOR DIODE MATERIAL TESTING
AD-429133 N64-20408 13-24

SURFACE DAMAGE EFFECTS ON TRANSISTORS AND DIODES IN IONIZING RADIATION ENVIRONMENT
TG-510 N64-20611 13-12

ELECTRON PROBE METHOD FOR DETERMINING IMPURITY DISTRIBUTION IN SILICON SWITCHING DIODES N64-20982 14-15

C- AND KU-BAND SEMICONDUCTOR DIODE LIMITER DEVICES
AD-431966 N64-21551 15-09

ELECTRON AND HOLE INJECTION BY METAL PROBES INTO DEPLETION REGION OF SEMICONDUCTOR DIODE N64-21769 15-25

SEMICONDUCTOR MATERIALS - GALLIUM ARSENIDE AND GALLIUM ARSENIDE-GALLIUM PHOSPHIDE DIODE ARRAYS AND GROWTH OF BORON PHOSPHIDE CRYSTALS
AD-433725 N64-22056 15-25

ITERATIVE PARAMETRIC AMPLIFICATION WITH SEMICONDUCTOR REACTANCE DIODES
RSIC-146 N64-22914 16-09

SEMICONDUCTOR DIODE PARAMETRIC AMPLIFIER TO ENHANCE DYNAMIC RANGE OF RECEIVING SYSTEMS
ADC-TDR-64-83 N64-24193 16-09

SINGLE-BAND CRYSTAL DIODE MODULATOR AS LOCAL DIODE OSCILLATOR IN ELECTRON PARAMETRIC RESONANCE SPECTROMETER
FTD-TT-64-317/1&2&4 N64-24325 17-15

APPARATUS FOR MEASURING PULSE CHARACTERISTICS OF SEMICONDUCTOR DIODES N64-24525 17-09

BROADBAND MICROWAVE POWER LIMITERS - SCALING, BIAS CRYSTALS, DIODE MOUNTS, AND LOW POWER PERFORMANCE OF L BAND-S BAND UNIT
QPR-3 N64-25527 17-09

SEMICONDUCTOR DIODE PARAMETRIC AMPLIFIERS AND CONVERTERS
NRL-6024 N64-25979 18-09

SEMICONDUCTOR JUNCTION MIXER DIODES FOR COUNTERMEASURES EQUIPMENT
M-102 N64-26323 18-09

CORRELATION OF PROTON, NEUTRON, ELECTRON, AND PHOTON RADIATION DAMAGE IN TRANSISTORS AND DIODES
D2-90407 N64-26654 18-09

PARAMETRIC SINGLE-DIODE AMPLIFIER WITH ONE AUXILIARY CIRCUIT AND TWO DRIVING STAGES
RSIC-217 N64-27052 19-08

INTEGRATED GALLIUM-ARSENIDE DIODE ARRAYS - SEMICONDUCTOR MATERIALS
IER-3 N64-27746 19-09

DIODE PROPERTIES STUDIED WITH ELECTRON MICROSCOPE
WCAP-2562 N64-28618 20-09

EFFECT OF MAGNETIC FIELD ON ELECTRON STREAMS IN CESIUM VAPOR FILLED DIODE
FTD-TT-63-351/1&2 N64-29015 20-24

EPITAXIAL DEPOSITION FABRICATION OF SEMICONDUCTOR DIODES FOR ELECTRONIC TUNING
R-182.1 N64-29390 21-25

PUMPING OF CALCIUM FLUORIDE-DYSPROSIUM ION LASER USING GALLIUM ARSENIDE DIODES
NASA-CR-58645 N64-29407 21-09

SUBHARMONIC OSCILLATIONS IN PARAMETRIC DIODES
TR-7 N64-29600 21-09

HIGH CURRENT, HIGH VOLTAGE SILICON FOUR-LAYER DIODE WITH AVALANCHE DIODE CHARACTERISTICS FOR USE AS HIGH POWER SWITCHING DEVICE
RADC-TDR-230 N64-29969 21-09

COMPUTER PROGRAM FOR GAIN AND LOSS CHARACTERISTICS OF LASERS, GALLIUM ARSENIDE LASER DIODES, AND SWITCHING IN INJECTION LASERS
QPR-4 N64-30534 22-25

BRIDGE CIRCUIT FOR CAPACITY MEASUREMENT OF EVAPORATED AND SPUTTERED THIN FILM DIODES
GE/EE/63-23 N64-31138 22-09

EFFECTS OF CESIUM ADDITIVE ON PERFORMANCE AND WORK FUNCTIONS OF RHENIUM EMITTER DIODE
REPT.-36-63 N64-32036 23-09

MAGNETOHYDRODYNAMICS - MAGNETICALLY INDUCED IONIZATION IN POWER GENERATOR AND BARIUM DIODES
SAR-2 N64-32153 23-24

GERMANIUM AND SILICON TRANSISTOR-LIKE DEVICES - RESISTORS, DIODES, AND TRANSISTORS
REPT.-16 N64-32207 23-09

OPERATING INSTRUCTIONS AND TRANSISTOR AND DIODE MODELS OF NET-1 DIGITAL COMPUTER FOR SIMULATING DIRECT CURRENT STEADY STATE AND TRANSIENT BEHAVIOR OF ELECTRICAL CIRCUITS
LA-3119 N64-32936 24-09

FAILURE IN SILICON OXIDE DIODE WAFERS & AMPLIFIERS AND LINEAR AMPLIFIERS
RADC-TDR-64-252 N64-33546 24-09

DIOL
S GLYCOL

DIOPHANTINE EQUATION
ERGODIC THEORY, DIOPHANTINE APPROXIMATION, AND CERTAIN STOCHASTIC SATELLITE PROBLEMS
SSD-TDR-63-234 N64-11469 03-29

SIMULATION OF RANDOM PROCESSES BY DIOPHANTINE APPROXIMATIONS WITH EXPONENTIAL FUNCTIONS
FTD-TT-62-1367/1&2 N64-22389 15-20

DIOXIDE
IMPROVED LOW TEMPERATURE ALKALINE MANGANESE DIOXIDE PRIMARY CELL
AD-423090 N64-12829 04-06

DIPHENYLAMINE
POLAROGRAPHIC STUDY OF OXIDATION INHIBITORS - NITRODIPHENYLAMINES AND NITRORESORCINOLS
RK-TR-63-26 N64-18191 10-07

DIPOLE
SA DIELECTRIC POLARIZATION
SA MAGNETIC DIPOLE
CALCULATION OF LOW FREQUENCY DIPOLE FIELD IN FAR ZONE ABOVE THREE-LAYER SECTION OF EARTH CRUST - GEOLOGICAL SURVEY N64-11488 03-23

APPROXIMATE FORMULA FOR LOW-FREQUENCY DIPOLE FIELD CURVES OF HORIZONTAL LAMELLAR STRUCTURE ABOVE POORLY CONDUCTING BASE - GEOLOGICAL SURVEY N64-11490 03-23

INDUCTION AND DIPOLE ELECTROMAGNETIC METHODS FOR DETECTING COVERED, INCLINED CONDUCTING SHEETS - GEOLOGICAL SURVEY N64-11492 03-23

MOTION OF LOW RIGIDITY COSMIC RAYS IN DIPOLE FIELD - GEOMAGNETIC AND EXTERNAL FIELDS N64-12696 04-28

STRESS FIELD REACTION BETWEEN EDGE DISLOCATION DIPOLES AND RESULTING STRAIN HARDENING
TR-6 N64-13618 05-25

RADIATION FIELD DUE TO ELECTRIC CURRENT DIPOLE IN INFINITE, HOMOGENEOUS, ANISOTROPIC PLASMA
PIBMRI-1070-62 N64-14117 05-24

RADIATION FIELD DUE TO ELECTRIC CURRENT DIPOLE IN INFINITE, HOMOGENEOUS, ANISOTROPIC PLASMA
PIBMRI-1070-62 N64-14117 05-24

TABLES FOR DIPOLE TRANSITION PROBABILITIES IN LS-COUPLING
AFCRL-64-37 N64-18633 11-23

EQUATIONS OF SOUND RADIATION BY SURFACE DIPOLES OF RIGID FLAT PLATE
AGARD-459 N64-18724 11-23

DIPOLE MATRIX ELEMENTS FOR TRANSITION IN CESIUM
RTD-TDR-63-3111 N64-21517 15-23

DIFFRACTION OF FIELD OF RADIATING SURFACE ANTENNA EXCITED BY ELEMENTARY ELECTRIC DIPOLE BY SOLIDS OF REVOLUTION N64-23792 16-08

GLOBAL COMMUNICATIONS NETWORK UTILIZING ORBITING DIPOLES AS SCATTERING MEDIUM
RADC-TDR-64-187, VOL. I N64-26170 18-08

MOLECULAR GEOMETRY OF HIGH TEMPERATURE LIGHT METAL COMPOUNDS BY ELECTRIC DIPOLE DETERMINATIONS USING MOLECULAR BEAM ELECTRIC DEFLECTION
ITR-7 N64-28297 20-07

WAVE EQUATION & GREEN FUNCTION FOR ELECTRIC FIELD

IN MOVING MEDIUM - PHASE VELOCITY OF DIPOLE
NASA-CR-59185 N64-33163 24-23

DIPOLE ANTENNA
RADIATION FIELD OF MAGNETIC DIPOLE ANTENNA IN CONICAL SHEATH
SSD-TDR-63-319 N64-15812 07-24

CONSTANT WIDTH LOG PERIODIC DIPOLE ANTENNA ARRAY WITH INDUCTIVELY-LOADED ELEMENTS
EDL-M401 N64-16968 09-09

LOG PERIODIC DIPOLE ANTENNA WITH PARASITIC ELEMENTS
EDL-M623 N64-17965 10-09

DIPOLE ANTENNA INPUT IMPEDANCE CHANGE DUE TO GROUND EFFECT
NBS-MONOGRAPH-72 N64-21211 14-08

ELECTRIC FIELDS FROM AIRBORNE VERTICAL AND HORIZONTAL DIPOLE ANTENNAS AT VERY LOW FREQUENCIES
EE-105 N64-25520 17-09

IBM 1620 DIGITAL COMPUTER PROGRAMS FOR DESIGN OF COAXIAL DIPOLE PARAMETRIC AMPLIFIER ANTENNA
AFCRL-64-447 N64-30001 21-08

DESIGNS AND APPLICATIONS OF BROADBAND AND LOGARITHMIC PERIODIC DIPOLE ANTENNAS
FTD-TT-64-554/1&2&364 N64-30108 21-08

GENERAL PROPERTIES OF TUNNEL-DIODE-LOADED DIPOLE ANTENNA
REPT.-1566-8 N64-30136 21-09

SKY WAVE FIELD FROM DIPOLE ANTENNA IN ARBITRARY MIXED LAND-SEA AREA - ELECTROMAGNETIC PROPAGATION
AFCRL-64-509 N64-30896 22-08

EFFECT OF DIELECTRIC BODY PLACED NEAR DIPOLE ANTENNA ON HORIZONTAL PATTERN OF ANTENNA
DRI-2118 N64-31240 22-08

PROPERTIES OF ANTENNAS IN CONDUCTING MEDIA - INSULATED DIPOLE AND BARE CIRCULAR LOOP ANTENNAS
AFCRL-64-436 N64-32181 23-08

RADIATION CHARACTERISTICS OF LOG PERIODIC DIPOLE ARRAY
EDL-M720 N64-32552 23-08

HOMING DEVICE WITH INTEGRATED DIPOLE ANTENNA AND RADOME CIRCUITRY - DIRECTION FINDER
REPT.-1566-12 N64-33645 24-08

DIPOLE MOMENT
TABLES OF STATIC DIELECTRIC CONSTANTS, DIPOLE MOMENTS, AND DIELECTRIC RELAXATION TIMES FOR PURE SOLIDS AND LIQUIDS N64-14184 06-23

DIPOLE MOMENT, QUADRUPOLAR COUPLING CONSTANTS, AND MICROWAVE SPECTRUM OF CHLOROBENZENE
NASA-CR-55415 N64-14865 06-07

MASS AND MICROWAVE SPECTRA, STRUCTURES AND DIPOLE MOMENTS OF ISOMERS OF SULFURMONOFLUORIDE
AD-434344 N64-26861 18-07

DIRAC EQUATION
ZERO ENERGY LOSS DIRAC-COULOMB INTEGRALS EVALUATED USING CONTOUR INTEGRATION TECHNIQUE
AD-427692 N64-13932 05-09

SCATTERING FACTORS FOR ATOMS AND IONS COMPUTED FROM DIRAC-SLATER WAVE FUNCTIONS
LA-3056 N64-19281 11-23

SEPARATION OF DIRAC EQUATION AND STUDY OF SPIN ORBIT COUPLING AND FERMI CONTACT INTERACTION
TN-110 N64-20454 13-23

DIRECT CURRENT /DC/
CF ALTERNATING CURRENT /AC/
CF ELECTRIC CURRENT
HIGH EFFICIENCY DC TO DC CONVERTER WITH 59 WATTS OUTPUT
NASA-CR-52708 N64-11076 02-06

TRANSISTOR FOR CONVERTING DIRECT CURRENT TO ALTERNATING CURRENT
FTD-TT-63-179/1&2 N64-11155 02-09

DIRECT CURRENT AMPLIFIER WITH SOLID STATE CHOPPER GATE N64-11735 03-15

CONVERSION OF DIRECT TO ALTERNATING CURRENT USING MAGNETORESISTANCE - THEORY AND EXPERIMENTS WITH MATERIALS, CONFIGURATIONS, AND CIRCUITS
NASA-CR-52910 N64-11793 03-23

CAPACITANCE HIGH-VOLTAGE DIRECT CURRENT GENERATOR WITHOUT A COMMUTATOR
FTD-TT-61-539/1&2 N64-12368 03-09

CAPACITANCE DIRECT CURRENT GENERATOR
FTD-TT-61-540/1 N64-12668 04-06

ALCOHOL DEHYDRATION, LEUKOSIS IN MICE BY IONIZING RADIATION, AND DIRECT CURRENT EFFECT ON DOGS
JPRS-20153 N64-12722 04-07

DIRECT-CURRENT EFFECT ON ULTRABOUNDARY INHIBITION IN DOGS N64-12725 04-16

MICROWAVE RADIATION FROM DC DISCHARGE PLASMA IN MAGNETIC FIELD
IPPJ-13 N64-13027 04-24

GEOLOGIC EXPLORATION BY DIRECT CURRENT RESISTIVITY AND CONDUCTIVITY MEASUREMENTS N64-15413 07-23

BRUSHLESS DC MOTOR FOR SATELLITE APPLICATION
NASA-TN-D-2108 N64-15908 07-06

MAGNETORESISTANCE AND SUPERCONDUCTIVITY FOR APPLICATION TO DC TO AC CONVERSION
NASA-CR-53083 N64-16750 08-06

MODULATED INVERTER FOR REGULATION OF ALTERNATING CURRENT TO DIRECT CURRENT POWER SUPPLIES N64-17432 09-06

DIRECT CURRENT-RADIO FREQUENCY SUBSTITUTION ERROR IN DUAL ELEMENT BOLOMETER MOUNTS
NBS-7934 N64-20437 13-15

COLLECTORLESS ELECTRIC MOTOR GENERATING DIRECT CURRENT
FTD-TT-63-487/1&2 N64-22650 15-06

OPERATION AND STABILITY LIMITS OF HIGH PRESSURE DIRECT CURRENT PLASMA ARC
CM-1043 N64-22900 16-24

TOROIDAL INDUCTORS WITH DIRECT CURRENT BIAS
NASA-TN-D-2320 N64-23027 16-09

SYNCHRONIZATION OF INTEGRAL REGULATOR FOR ROTATION SPEED OF DIRECT CURRENT MOTORS N64-23574 16-09

CIRCUIT ANALYSIS OF REGULATION CONTROL LOOP AND SERIES REGULATOR IN DC-DC CONVERTER
NASA-CR-56467 N64-23938 16-09

VOLTAGE NUMBER CODE CONVERTER FOR DIRECT AND ALTERNATING CURRENT CONTROL SYSTEMS N64-24543 17-09

LOW VOLTAGE DIRECT CURRENT CONVERTER AND REGULATOR
NASA-CR-56451 N64-27876 20-06

REGULATED CONVERTER FOR DIRECT CURRENT LOW VOLTAGE TO HIGH VOLTAGE CONVERSION USING GERMANIUM POWER TRANSISTOR SWITCHING ELEMENTS
NASA-CR-56883 N64-27892 20-06

ONE-INCH-SQUARE LINEAR D-C PLASMA ACCELERATOR USING CESIUM SEEDED NITROGEN
AIAA PAPER-64-699 N64-28077 20-24

DIRECT CURRENT TO DIRECT CURRENT CONVERTER
NASA-CR-58243 N64-28933 20-09

FUNCTION RELATING ABSOLUTE TEMPERATURE TO DC BRIDGE RESISTANCE RATIO, & THERMISTOR TEMPERATURE COEFFICIENT OF RESISTANCE

PIBAL-696 N64-30589 22-15

LOW POWER, HIGH EFFICIENCY DIRECT CURRENT-DIRECT CURRENT CONVERTERS FOR SATELLITE AND ROCKET ENVIRONMENTAL CONDITIONS
AFCRL-64-558 N64-31403 23-09

FRAMELESS, SHIELDED FIELD, DIRECT CURRENT TORQUER N64-31504 23-17

EFFECTS OF NONLINEAR ACTIVE RESISTANCES ON DIRECT CURRENT N64-31858 23-09

DAMAGE TO MATERIALS FROM POSITIVE AND NEGATIVE DIRECT CURRENT /DC/ CORONA DISCHARGES N64-32754 24-07

EFFECT OF DIRECT CURRENT /DC/ CORONA DISCHARGES ON THIN FILMS OF RADIOACTIVE POLYETHYLENE-TYPE MATERIALS N64-32755 24-19

REACTION WHEEL USING BRUSHLESS DIRECT CURRENT ELECTRIC MOTOR
NASA-CR-58773 N64-32888 24-17

DIRECTIONAL STABILITY
MULTIPLE LOOP CONFIGURATION IN COUNTERPOISE SYSTEM TO ELIMINATE VHF OMNIDIRECTIONAL RANGE /VOR/ BEARING ERRORS
RD-64-47 N64-20439 13-09

AVIATION DIRECTIONAL GYROSCOPE N64-23384 16-15

SUPERSONIC LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS OF SWEPT WING-BODY-TAIL MODEL
NASA-TN-D-2376 N64-26610 18-02

HELICOPTER FLIGHT INVESTIGATION OF EFFECTS OF GROSS CHANGES IN STATIC DIRECTIONAL STABILITY ON V/STOL HANDLING
NASA-TN-D-2477 N64-31081 22-04

DIRICHLET PROBLEM
ABSTRACT VARIATIONAL PRINCIPLE DERIVED FROM DIRICHLET BOUNDARY VALUE PROBLEM FOR LINEAR PROBLEMS
ONR-064-431 N64-10556 01-23

APPROXIMATION METHODS FOR SOLUTION OF LINEAR AND INTEGRAL EQUATIONS FOR THERMOCONDUCTIVITY AND DIRICHLET PROBLEMS
FTD-TT-63-808/1&2 N64-23688 16-23

APPROXIMATION METHOD FOR SOLUTION OF INTEGRAL EQUATIONS FOR DIRICHLET PROBLEMS N64-23690 16-23

DIRICHLET PROBLEM FOR NONLINEAR ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS
BRL-MEMO-1215 N64-25487 17-20

DIFFERENCE METHODS FOR DIRICHLET PROBLEM FOR ELLIPTIC DIFFERENTIAL EQUATIONS
BN-345 N64-25663 17-20

COMPUTER PROGRAM FOR NUMERICAL SOLUTION TO THREE-DIMENSIONAL DIRICHLET PROBLEM
MRC-384 N64-29309 21-20

NONLINEAR ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS AND NUMERICAL SOLUTION USING STRUCTURE OF SOLUTIONS OF DIRICHLET PROBLEM
MRC-470 N64-31897 23-20

DIFFERENCE METHOD FOR DIRICHLET PROBLEM ASSOCIATED WITH QUASI-LINEAR ELLIPTIC PARTIAL DIFFERENTIAL EQUATION
MRC-494 N64-31964 23-20

APPLICATION OF THEORY OF STRONG RIESZ LIMITS TO INTEGRALS ASSOCIATED WITH DIRICHLET SERIES FOR CARLSON NU FUNCTION OF SERIES - STRONG RIESZ SUMMABILITY OF INTEGRALS
AD-420953 N64-32035 23-20

DISARMAMENT
SAMPLING AND GAME THEORY APPLIED TO INSPECTION PLANS FOR DISARMAMENT AGREEMENTS N64-15422 07-20

DISCHARGE
SA ARC DISCHARGE
SA GAS DISCHARGE
SA SPARK
CF EXPLOSION
SILVER-CADMIUM SEALED STORAGE BATTERY - SILVER ELECTRODE UTILIZATION & CHARGE-DISCHARGE TEST
WADD-TR-61-131, PT. 2 N64-11179 02-06

GASEOUS BREAKDOWN MECHANISM AND TOWNSEND RELATION
R-75 N64-11596 03-23

ARTIC LOW TEMPERATURE TEST OF YUH-1D HELICOPTER
AFCRL-63-343 N64-12679 04-09

ELECTRICAL MODEL OF NEURISTOR WITH ENERGY SOURCE, STORAGE DEVICE AND NONLINEAR DISCHARGING RESISTOR
JPRS-23046 N64-14527 06-09

MEASUREMENT OF LOW FREQUENCY FLUCTUATIONS IN REFLEX DISCHARGE
MATT-249 N64-17253 09-24

MECHANISM OF PENNING DISCHARGE N64-17257 09-09

AREA OF MOVEMENT OF CHARGED PARTICLES IN DIPOLE MAGNETIC FIELDS AS INDICATED BY GLOW DISCHARGE N64-17346 09-24

GENERATION OF COLD PLASMA SUITABLE FOR USE AS CROSSED FIELD ACCELERATOR BY DIRECT CURRENT GLOW DISCHARGE
ASD-TDR-63-835 N64-20124 13-24

WAVE PROPAGATION AND RADIO FREQUENCY MODULATION BY COAXIAL GLOW DISCHARGE AND PLASMA CYCLOTRON RESONANCE ISOLATOR
REPT.-4915-1-F N64-21087 14-24

VAPORIZED TEFLON CAPACITORS - METALLIZED MYLAR COATED WITH THIN FILM TEFLON DIELECTRIC BY GLOW DISCHARGE
QR-5 N64-24979 17-09

GENERATION OF HIGH DENSITY STABLE CESIUM PLASMA BY MODIFIED PENNING ARC AND DESIGN OF BEAM-PLASMA AMPLIFIER
AC-TDR-64-155 N64-26956 18-24

CATHODIC AND ANODIC YIELDS OF BROMINE AND BROMINE PENTAFLUORIDE AND GLOW DISCHARGE ELECTROLYSIS
QTSR-4 N64-27748 19-07

EXPERIMENTAL ANALYSIS OF EXHAUST BEAM FROM COLLOID THRUSTOR
AIAA PAPER-64-674 N64-28358 20-27

EXHAUST MEASUREMENTS ON PLASMA FROM PULSED COAXIAL GUN INTENDED FOR SPACE PROPULSION
AIAA PAPER-64-705 N64-28370 20-24

JET IMPINGEMENT FORCES ON CYLINDER IN EXHAUST FLOW OF CONICAL NOZZLE ISSUING INTO VACUUM ENVIRONMENT
U-2634 N64-28960 20-11

ION BOMBARDMENT AND SIMULTANEOUS DOPING OF SILICON BY DC GLOW DISCHARGE
AROD-3330-4 N64-30006 21-25

DISCHARGE THEORY OF SOLAR FLARES - GROWTH RATE OF FLARES, PARTICLE ACCELERATION, TOPOLOGY OF MAGNETIC FIELDS, AND PROTON EVENT PREDICTION N64-30297 22-28

HIGH VACUUM SPARK DISCHARGE PRODUCTION OF ULTRAVIOLET RADIATION
ML-TDR-64-259 N64-32152 23-23

DISCHARGE COEFFICIENT
DISCHARGE COEFFICIENTS OF ORIFICE FLOW OF LIQUID HYDROGEN AND NITROGEN INTO VACUUM
NASA-CR-55329 N64-15880 07-11

DISCHARGE TUBE
SA ELECTRON TUBE
SA THYRATRON
SPECTRUM OF HELIUM CATHODE DISCHARGE TUBE IN VISIBLE AND VACUUM ULTRAVIOLET REGIONS
MATT-236 N64-17495 09-24

CHANGES IN WORK FUNCTION OF LANGMUIR PROBE IN LOW DENSITY DISCHARGE TUBE AT HIGH TEMPERATURES
NASA-CR-56170 N64-20817 14-24

RADIATION-INDUCED SHOCK WAVES EXTERNAL TO QUARTZ DISCHARGE TUBES CAUSING SHATTERING
NRL-MR-1509 N64-22217 15-24

DISCONTINUITY
DISTORTING INFLUENCE OF EARTH-AIR DISCONTINUITY ON ELECTRIC FIELD OF VERTICALLY POLARIZED SPHERE
N64-10166 01-12

STRESS ANALYSIS OF STRAIGHT-LINE DISLOCATION NEAR PLANE OF DISCONTINUITY OF ELASTIC CONSTANTS IN UNLIMITED ANISOTROPIC MEDIUM N64-10734 02-25

APPLICATION OF LIAPUNOV METHOD TO INVESTIGATION OF STABILITY OF MOTION OF NONLINEAR DISCONTINUOUS SYSTEMS - AUTOMATIC CONTROL
MH-TRANS-384 N64-14804 06-20

DISCONTINUOUS SYSTEM VARIABLES IN OPTIMUM CONTROL OF SECOND-ORDER OSCILLATORY SYSTEMS WITH ZEROS
AD-429417 N64-15099 07-20

STRESS ANALYSIS OF ELASTIC-PLASTIC SHELLS OF REVOLUTION CONTAINING DISCONTINUITIES
NASA-RP-131 N64-15668 07-33

EXCITATION OF HIGHER ORDER MODES BY STEP DISCONTINUITY IN CIRCULAR WAVEGUIDES
NASA-CR-53062 N64-15786 07-09

DISTORTION EFFECT OF DISCONTINUOUS CURVATURE BY REFRACTED WAVES FROM SEISMIC SOUNDING
JPRS-23759 N64-17245 09-12

DISCONTINUOUS VARIATIONAL PROBLEMS & OPTIMAL FLIGHT OF MULTISTAGE ROCKETS
RN-162 N64-21838 15-29

HYDROMAGNETIC STABILITY OF VELOCITY DISCONTINUITY BETWEEN TWO INVISCID, COMPRESSIBLE FLUIDS
N64-22497 15-11

ULTRASONIC INSPECTION OF RMS-184 TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY SHEET FOR DISCONTINUITY DEFECTS
A746 N64-22588 15-17

EFFECT OF DISCONTINUITIES IN FUSION WELDED BUTT JOINTS
ADR-02-14-64.1 N64-23892 16-18

DISCONTINUITIES OF LONG TRANSMISSION LINES IN ANTENNA RADIATION PATTERN
RADC-TDR-64-121 N64-25233 17-08

STATE VARIABLE DISCONTINUITIES IN SOLUTION OF PROBLEMS OF VARIATIONAL CALCULUS
SSD-TDR-64-142 N64-26110 18-20

INEQUALITIES FOR THEORY OF FINITE DIFFERENCE EQUATIONS AND MORE GENERAL DISCONTINUOUS FUNCTIONAL EQUATIONS N64-26358 18-20

PROPAGATION OF INITIAL DENSITY DISCONTINUITY
MEMO.-70 N64-27571 19-11

DERIVATION OF DISCONTINUITY CONDITIONS IN CONTINUUM MECHANICS FROM ENERGY EQUATIONS
AM-64-11 N64-30699 22-23

APPLICATION OF THEORY OF STRONG RIESZ LIMITS TO INTEGRALS ASSOCIATED WITH DIRICHLET SERIES FOR CARLSON NU FUNCTION OF SERIES - STRONG RIESZ SUMMABILITY OF INTEGRALS
AD-420953 N64-32035 23-20

DISCOVERER XVII SATELLITE
NUCLEAR REACTIONS ON SOLAR SURFACE - RADIOCHEMICAL STUDIES OF MATERIAL RECOVERED FROM DISCOVERER XVII LAUNCHED DURING SOLAR FLARE N64-30281 22-28

DISCOVERER SATELLITE
ELECTRON LOSS RATE FROM OUTER RADIATION BELT USING FLUX MEASUREMENTS ON DISCOVERER SATELLITES
NASA-RP-307 N64-29340 21-28

DISCRETE FUNCTION
ALGORITHM FOR RECOGNITION AND CLASSIFICATION OF OBJECTS DESCRIBED BY DISCRETE PARAMETERS INTO TWO GROUPS
MH-TRANS-429 N64-11574 03-20

PREDICTION THEORY IN REFERENCE TO DISCRETE TIME SERIES FOR LONG-RANGE OCEAN ACTIVITY, ROLL AND VIBRATION RESPONSE
MAC-307-01 N64-18268 10-12

IDEALIZING COMPLEX AIRCRAFT STRUCTURES INTO DISCRETE ELEMENTS FOR MATRIX STRESS ANALYSIS
N64-20941 14-33

FUNCTIONAL DECOMPOSITION FOR DISCRETE DYNAMIC LINEAR SYSTEMS
REPT.-2900-459-R N64-21095 14-20

PROCESS OPTIMIZATION WHEN SOLVING PROBLEMS OF SYNTHESIS OF DISCRETE AUTOMATA N64-27165 19-20

DISCRIMINATION
FACTORS AFFECTING PHOTOGRAPHIC CHANGE DISCRIMINATION N64-10533 01-14

STATISTICAL DERIVATION OF NONPARAMETRIC MEASURES OF RELIABILITY AND DISCRIMINATION
AMRL-592 N64-17481 09-23

TIME-DISCRIMINATING SPECTROPHOTOMETER FOR PLASMA
N64-18481 10-23

ANIMAL DISCRIMINATION AND RECOGNITION IN NOISE-FREE ENVIRONMENT N64-18836 11-14

COMPUTER ANALYSIS OF PROLONGED EFFECTS OF LYSERGIC ACID DIETHYL AMIDE ON ELECTROENCEPHALOGRAM RECORDS DURING DISCRIMINATIVE PERFORMANCE IN CAT
N64-22427 15-14

PREDICTING DIFFICULTY ENCOUNTERED IN LOCATING TARGETS USING AERIAL PHOTOGRAPHY
AMRL-TDR-64-19 N64-22566 15-14

TIME COINCIDENCE SEARCH UNIT FOR USE WITH TIME CODED SIGNALS RECORDED DURING MISSILE TESTS
WRE-TN-EC-2 N64-28060 20-09

DISCRIMINATOR
SIGNAL DISCRIMINATOR FOR CLASSIFICATION OF MACHINE LEARNING PATTERNS
RADC-TDR-64-145 N64-25235 17-16

SIMULATED ENVIRONMENTAL TESTING OF BINARY DELAY LOCK TRACKING DISCRIMINATOR
REPT.-6-74-64-18 N64-29880 21-08

RAPID DISCRIMINATOR FOR USE WITH PHOTOMULTIPLIER
LNF-64/37 N64-32742 24-15

DISEASE
SA ASTHMA
SA INSOMNIA
SA LEUKEMIA
SA PATIENT
SA POLIOMYELITIS
SA SCHIZOPHRENIA
SA SMALLPOX
CF PATHOLOGY
PROBLEMS OF PATHOGENESIS, DISEASE PREVENTION, & THERAPY OF RADIATION INJURY N64-12804 04-16

HYPERVENTILATION-ALKALOSIS AND BICARBONATE CONCENTRATION EFFECT ON ACID-BASE EQUILIBRIUM FOR OXYGEN TRANSFER AND CONSUMPTION
N64-15037 07-16

RESISTANCE OF MICE TO RESPIRATORY INFECTION AFTER EXPOSURE TO ALTITUDE OF 35,000 FEET - SPACE CABIN ENVIRONMENT
SAM-TDR-64-9 N64-22506 15-16

MICROWAVE TREATMENT OF DISEASES
JPRS-26038 N64-27670 19-16

INTERDEPENDENCE OF FACTORS LEADING TO CORONARY DISEASE
REPT.-9 N64-29995 21-16

VITAMIN AND HORMONE EFFECTS ON HEMORRHAGIC DISEASE IN RATS CAUSED BY IRRADIATED FOOD
PR-14 N64-33993 24-16

DISK
CF BODY OF REVOLUTION
CF PLATE
ELASTIC STRESSES & STRAINS FROM PRESSURE LOADING AND RADIAL TEMPERATURE GRADIENT FOR CIRCULAR DISK, CYLINDER, AND SPHERE
SSD-TDR-63-227 N64-12268 03-33

EVALUATION OF MAGNETOSTRICTION, FLOW, AND ROTATING DISK TESTING DEVICES FOR CAVITATION DAMAGE
AD-425725 N64-13302 04-11

ROOM TEMPERATURE BURST STRENGTH AND DUCTILITY OF MODEL DISKS IN FERRITE TURBINE DISK MATERIAL
ARC-CP-660 N64-16529 08-33

TENSILE INSTABILITY OF HOLLOW ROTATING DISKS OF UNIFORM THICKNESS
ARC-CP-692 N64-16938 09-33

MATRICES FOR MODELS OF DISKS, PLATES, AND SHELLS
AD-434846 N64-18913 11-20

RADIANCE OF SOLAR DISK MEASURED AS FUNCTION OF WAVELENGTH WITH SPECTRAL RADIOMETER
SRI-2145 N64-19673 12-28

ROTATING FLUID RING SEALS FOR HIGH SPEED SHAFTS IN SPACE - ELECTRON BEAM WELDING OF REX 49 STEEL
AD-429211 N64-19779 12-17

GENERALIZED ACTUATOR DISK
TAR-TR-6401 N64-21754 15-03

CONTOUR OF LUNAR DISK BOUNDARY ZONE
FTD-TT-63-982/1&2 N64-22361 15-29

ROTATING FLOWS OVER ROTATING DISKS
NWL-1913 N64-22543 15-11

ENCLOSED ROTATING DISKS WITH RADIAL OUTWARD THROUGHFLOW SUPERPOSED ON INDUCED FLUID MOTION
R-64-16 N64-25397 17-11

PROPAGATION OF ELASTIC WAVES IN PLANE DISCS WITH CIRCULAR HOLE
E-T-6-63-31 N64-25490 17-23

ABSOLUTE MEASUREMENT OF SUN DISK ENERGY EMISSION USING BLACK BODY
NASA-TT-F-8929 N64-26786 18-28

PROPAGATION OF LONGITUDINAL WAVES IN PLANE DISKS WITH CIRCULAR HOLE
E-T-6-63-30 N64-27683 19-08

STABILITY OF DISK SUPPORT OF GYROSCOPE
N64-27984 20-23

KINETICS OF HYDROGEN ELECTRODE WITH ROTATING DISK
TR-19 N64-30531 22-07

FIBER PATTERNS FOR UNIFORM TENSION IN SPINNING FILAMENTARY DISK
NASA-CR-106 N64-31203 22-33

SHAPE AND INTERNAL STRUCTURE OF MOON - LUNAR PARAMETERS AND DENSITY DISTRIBUTION - RIGID AND THERMAL CONVECTION MODELS
RM-3964-PR N64-31972 23-29

RADIOASTRONOMICAL DETERMINATION OF SOLAR RADIO RADIUS BY TIME VARIATIONS OF LUNAR AND SOLAR DISK CONTACTS
NASA-TT-F-8976 N64-33592 24-28

X-RAY FLARE EMISSION ORIGINATING BEHIND SOLAR DISK - IONOSPHERIC DISTURBANCE OBSERVATIONS
AD-424481 N64-33729 24-28

DISLOCATION
SA CRYSTAL STRUCTURE DEFECT
CF DISPLACEMENT
LAGRANGE EQUATION OF DISLOCATION MOTION IN EXTERNAL STRESS FIELD OF ELASTIC MEDIUM
JPRS-17473 N64-10680 02-23

ANNEALING EFFECT ON DENSITY OF DISLOCATIONS AND COMPRESSION CURVES OF GERMANIUM CRYSTALS
N64-10710 02-25

SOLID STATE PHYSICS - DISLOCATIONS
JPRS-18008 N64-10732 02-25

STRESS ANALYSIS OF STRAIGHT-LINE DISLOCATION NEAR PLANE OF DISCONTINUITY OF ELASTIC CONSTANTS IN UNLIMITED ANISOTROPIC MEDIUM N64-10734 02-25

CONDITIONS OF DISLOCATION PINNING IN CLUSTERS WITH IMPURE ATOMS N64-10735 02-25

CRITICAL DISLOCATION DENSITY NEAR GRAIN BOUNDARY OF METAL ASSOCIATED WITH FATIGUE FRACTURE - IRON ALLOYS N64-10790 02-18

X-RAY DIFFRACTION METHOD APPLIED TO DEFORMED METAL AND ALLOY TO REVEAL DISLOCATION STRUCTURE AND PLASTIC PROPERTIES N64-10791 02-18

CONFIRMATION OF BRITTLE FRACTURE THEORY BY OBSERVATION OF DISLOCATIONS IN CAST AND DEFORMED CHROMIUM SPECIMENS N64-10793 02-18

CHEMICAL & ELECTROLYTIC POLISHES & DISLOCATION ETCHES FOR SEMICONDUCTORS
NOLTR-63-156 N64-11174 02-07

CUTTING ALUMINUM SINGLE CRYSTALS, DISLOCATIONS IN DEFORMED METALS, & STRENGTH OF METAL TO CERAMIC BOND
JPRS-18889 N64-11215 02-18

STRENGTH PROPERTIES OF METAL CRYSTALS - PLASTIC DEFORMATION & DISLOCATION OF WHISKER METALS
JPRS-22445 N64-12012 03-18

DISLOCATIONS AT SUBSONIC & SUPERSONIC VELOCITIES
N64-13434 05-25

PLASTIC WAVE PROPAGATION - DISLOCATION CONCEPTS OF STRAIN RATE EFFECTS N64-13439 05-25

SOVIET STUDIES ON DISLOCATIONS & CRYSTAL STRUCTURE
JPRS-22981 N64-15014 07-25

CRITIQUE ON CRYSTAL DISLOCATIONS & PLASTICITY
N64-15015 07-25

DISLOCATION EFFECTS ON MICROSTRUCTURE OF INDIUM FUSED INTO GERMANIUM N64-15016 07-25

SPONTANEOUS SHIFTING OF DISLOCATIONS IN SINGLE CRYSTALS OF LITHIUM FLUORIDE N64-15017 07-25

CONCENTRATION DEPENDENCE OF SUZUKI ATMOSPHERES IN PACKING DEFECTS OF EXTENDED DISLOCATIONS, AND CONTRIBUTION TO ALLOY HARDENING
N64-15018 07-25

KINETIC EQUATIONS FOR SOLUTION OF DISLOCATION POSITIONS IN METALS UNDER STRESS
N64-15019 07-25

FATIGUE AND CRACK PROPAGATION IN ALUMINUM, AND DISLOCATION MECHANISM IN COPPER-ZINC ALLOYS
WADD-TR-60-313, PT. 2 N64-17850 10-33

DISLOCATION DISTRIBUTIONS IN SILICON SUBSTRATE STRUCTURE FOR MATERIAL FAILURE ANALYSIS
N64-20975 14-25

OBSERVATIONS BY TRANSMISSION ELECTRON MICROSCOPY ON DISLOCATIONS IN URANIUM AND DISLOCATIONS AND RADIATION DAMAGE IN PLATINUM
EUR-243.E N64-21047 14-18

ETCHANTS AND ETCHING TECHNIQUES FOR PRODUCTION OF DISLOCATION ETCH PITS ON SODIUM CHLORIDE
NASA-TN-D-2325 N64-22022 15-19

METALLOGRAPHIC OBSERVATION OF DISLOCATION STRUCTURES IN QUENCHED, AGED, AND ETCHED ALLOY SAMPLES
FTD-TT-63-322/1&2&4 N64-22187 15-18

CHANGE OF DISLOCATION STRUCTURE OF METALS DURING CYCLIC STRESS
N64-23449 16-33

DYNAMIC DISLOCATION IN CRYSTAL PLASTICITY
TR-7 N64-25791 17-25

EFFECT OF SOLID STATE DISLOCATIONS UPON CATALYTIC ACTIVITY OF METALS
AD-400749 N64-27613 19-07

CZOCHRALSKI APPARATUS, RUBY CRYSTALS, CRYSTAL EVALUATION, REFRACTIVE INDEX VARIATION, AND ETCHING OF DISLOCATIONS
AD-443460 N64-30778 22-25

DISPERSION

DISPERSION AND ERROR IN GUIDANCE EFFECT ON RANGER LUNAR LANDING - MONTE CARLO METHOD ANALYSIS
NASA-CR-52540 N64-10336 01-32

FORMATION & DISPERSION OF INSOLUBLE PRECIPITATES FORMED ON HEATING OILS
JPRS-17760 N64-10718 02-26

INFLUENCE OF WIND VELOCITY & OTHER METEOROLOGICAL PARAMETERS ON DISPERSION OF ATMOSPHERIC POLLUTANTS
N64-11050 02-21

DISPERSION OF ATMOSPHERIC POLLUTANTS - FORMULAS FOR EMISSION SOURCES - DUSTFALL, PRECIPITATION, & TOPOGRAPHICAL EFFECT
N64-11051 02-21

SOLID FUEL TORCHES FOR DISPERSING SUPERCOOLED FOGS NEAR GROUND
N64-11841 03-21

UNIFORMITY OF DISTRIBUTION & MOTION OF DISPERSION LAYER IN PARALLEL CHANNELS
N64-11980 03-11

DEFORMATION CONFIGURATIONS OF DIPHASE STRUCTURE WITH DISPERSION OF SECOND PHASE COHERENT WITH MATRIX IN THIN FOILS OF ALLOY
JPRS-22471 N64-12093 03-25

DISPERSION STRENGTHENED VANADIUM-NIOBIUM ALLOYS PREPARED BY ARC-MELTING
IITRI-86007-5 N64-12126 03-18

DISPERSION RELATIONS IN TIME-SPACE PERIODIC MEDIA - STABLE INTERACTIONS
PIBNRI-1122-63 N64-12196 03-23

MEASUREMENT OF RADIOACTIVE ARGON DISPERSION IN AIR TO DETERMINE DILUTION FACTORS OF REACTOR STACK
AECL-1868 N64-12970 04-23

LONGITUDINAL DISPERSION IN PACKED EXTRACTION COLUMN WITH AND WITHOUT PULSATION
UCRL-10928 N64-13214 04-11

DISPERSION OF ATMOSPHERIC POLLUTION - CALCULATIONS
JPRS-22598 N64-13227 04-21

ELECTRON-EXCHANGE CORRECTION TO SOUND-WAVE DISPERSION RELATION IN METALS
NASA-CR-53035 N64-13406 04-25

DISPERSION STRENGTHENING IN NICKEL BASE THORIUM OXIDE ALLOY
TDR-269/4240-10/-4 N64-13763 05-18

COLD SWAGING CAPABILITY AND HARDNESS OF DISPERSION STRENGTHENED, EXTRUDED NICHROME-THORIUM OXIDE ALLOYS
PR-4 N64-14632 06-19

ASTROPHYSICAL RESEARCH WITH HIGH DISPERSION INSTRUMENTS
N64-15278 07-05

LINE SOURCE ANTENNA ARRAYS FOR CONTROL OF PATTERN, DISPERSION, AND PHASE OF BEAMS
AFCRL-63-182 N64-15519 07-09

DISPERSION AND PROBABILITY ANALYSIS FOR MISSILE TRAJECTORIES
AFSWC-TDR-63-66 N64-17473 09-29

ABSOLUTE INTENSITIES AND MEAN REFRACTIVE INDICES FROM INFRARED DISPERSION DATA
AFCRL-64-217 N64-18912 11-23

METHOD FOR OBTAINING ULTRAVIOLET AND VISIBLE SPECTRA OF INSOLUBLE MATERIALS BY USING LOW MOLECULAR WEIGHT POLYETHYLENE AS A DISPERSION MEDIUM
BM-RI-6439 N64-18993 11-23

DISPERSION STRENGTHENING OF NICKEL-CHROMIUM ALLOYS USING THORIUM OXIDE
AD-432420 N64-19158 11-18

LONGITUDINAL PLASMA OSCILLATIONS - DISPERSION, VELOCITY DISTRIBUTION, AND PHYSICAL MECHANICS OF PLASMA INSTABILITY
NASA-CR-53821 N64-19314 12-24

ELIMINATION OF ERROR IN COMPUTATION OF RAYLEIGH WAVE DISPERSION CURVES FOR LAYERED ELASTIC MEDIA BY ACCOUNTING FOR DECOUPLING EFFECTS
AFCRL-64-231 N64-20105 13-25

DETECTION TECHNIQUES AND ATMOSPHERIC DISPERSION OF TOXIC GASES AND AEROSOLS
SB-63-39 N64-20531 13-21

FACTORS AFFECTING FLOW AND DISPERSION OF FINELY DIVIDED ORGANIC POWDERS
REPT.-2381 N64-21579 15-23

OPTIMAL DESIGN FOR SUPERCOOLED CLOUD DISPERSAL EQUIPMENT AND TECHNIQUES
TO-B-64-32 N64-21712 15-21

DISPERSION PERFORMANCE FOR RANGER LANDING SYSTEM
U-2252, VOL. 1 N64-21821 15-32

DISPERSION EQUATION OF OBLIQUE HELIX OF RECTANGULAR CROSS SECTION
N64-23794 16-08

INSTRUMENT FOR STUDYING SPECTRAL REFLECTANCE OF DISPERSING MATERIALS IN LONG WAVE INFRARED REGION
N64-24550 17-15

ABSOLUTE REFLECTION SPECTRUM OF TYPE IIA DIAMOND MEASURED BY DISPERSION TECHNIQUES TO OBTAIN OPTICAL PARAMETERS
NASA-RP-256 N64-26077 18-07

EVAPORATION, COMBUSTION, AND GAS DYNAMICS IN DISPERSION SYSTEMS
FTD-TT-63-944/1 N64-26213 18-07

DISPERSION EQUATION FOR PLANAR MODEL OF TRANSVERSE WAVE INTERACTIONS IN M-TUBE - ELECTRON TUBE
N64-27162 19-09

CHARACTERISTICS OF RAYLEIGH WAVE DISPERSION ON TWO-LAYERED SOLID HALF SPACE FOR FUNDAMENTAL, FIRST SHEAR, AND SECOND SHEAR MODES
AD-441647 N64-27629 19-33

EXTRUSION AND COLD WORKING ASPECTS OF DISPERSION-STRENGTHENED ALUMINUM
EUR-1844.F N64-28417 20-18

QUANTUM MEASUREMENT OF TIME, ELECTRONICS, CLIMATOLOGY, HYDROLOGY, AND MIXING EFFECT OF DISPERSION BETWEEN LIQUIDS
JPRS-26128 N64-28433 20-01

TRACER TECHNIQUE FOR LOW-LEVEL ATMOSPHERIC DISPERSION AND DEPOSITION EXPERIMENTS
BNL-859/T-343/ N64-28661 20-21

DISPERSION, ATTENUATION, AND PROPAGATION OF HIGH FREQUENCY SIGNALS IN IONOSPHERE
RADC-TDR-64-219 N64-29827 21-12

USE OF BOLTZMANN EQUATION TO DERIVE DISPERSION LAW FOR COLLISIONS IN LONGITUDINAL PLASMA WAVES AND TRANSVERSE WAVE PROPAGATION
DI-82-0273 N64-29898 21-24

ANALYZING OR DISPERSING CRYSTAL FOR X-RAY

SPECTROSCOPY
ASD-TDR-63-311 N64-30709 22-25

WIND EFFECTS ON DISPERSION FOR VERTICAL PROBE ROCKETS
ATL-TDR-64-13 N64-32046 23-32

DISPERSION-STRENGTHENED NICKEL, TITANIUM, CARBON, AND BORON ALLOYS
ASD-TR-62-734, PT. II N64-32479 23-18

DISPLACEMENT
CF DISLOCATION
GENERAL SOLUTION FOR SYSTEM OF DIFFERENTIAL EQUILIBRIUM EQUATIONS IN DISPLACEMENT OF ANISOTROPIC BODY
RSIC-10 N64-13032 04-23

STRESSES, STRAINS, AND DISPLACEMENTS IN MULTIAXIAL TEST OF CIRCULAR DISK OF SOLID PROPELLANT BONDED TO RIGID PLATES N64-13255 04-24

STRESSES & DISPLACEMENTS IN ELASTIC-PLASTIC SHELLS OF REVOLUTION WITH TEMPERATURE-DEPENDENT PROPERTIES
LMSC-6-90-62-123 N64-13325 04-34

DYNAMICS OF DISPLACEMENT-FORCED THIN PLATES
BSD-TDR-63-110 N64-16826 08-23

ACTIVATION ENERGY OF ATOMIC DISPLACEMENTS IN SOLID METALS N64-17033 09-13

LAMINAR BOUNDARY LAYER DISPLACEMENT EFFECTS ON HEMISPHERES IN HELIUM FLOW
NASA-TN-D-2193 N64-17813 09-02

STATIC ATOMIC DISPLACEMENT AND THERMAL EXPANSION MEASUREMENTS OF TITANIUM-NITROGEN COMPOSITE STRUCTURES
C-22 N64-20574 13-25

STRAIN-DISPLACEMENT RELATIONS IN LARGE DISPLACEMENT THEORY OF SHELLS
SSD-TDR-64-87 N64-24878 17-23

LAYOUTS AND VIRTUAL DISPLACEMENT FIELDS IN MICHELL THEORY OF OPTIMUM STRUCTURES
COA-N-AERO-161 N64-27410 19-33

BOUNDARY LAYER PARAMETER IN HIGH SPEED FLOW WITH VARIABLE FLUID PROPERTIES
ARL-64-119 N64-28598 20-11

DISPLAY
S RADAR DISPLAY

DISPLAY SYSTEM
SA IMAGE
SEARCH AND DISPLAY UNIT FOR TIMING CODE - COMPUTER PROGRAM FOR DATA RETRIEVAL
PAD-73 N64-10224 01-15

TELEVISION SCAN-CONVERSION AND DIRECT-VIEW STORAGE TUBE FOR BRIGHT DISPLAY OF AIRPORT SURFACE DETECTION EQUIPMENT /ASDE/ N64-10255 01-15

LUMINOUS FLUX MODULATION BY RADIAL-SLOT SHUTTERS OF DISPLAY SYSTEMS - CYBERNETICS N64-12471 04-06

ARMY-NAVY AIRCRAFT INSTRUMENTATION RESEARCH - VERTICAL DISPLAY-CONTACT ANALOG SIMULATOR FOR HOVERING AND AIR TAXI MANEUVERS
D228-421-016 N64-12830 04-15

MANNED SPACECRAFT DISPLAY SYSTEMS AND THEIR EFFECT ON SPACEBORNE COMPUTER REQUIREMENTS
SSD-TDR-63-303 N64-16495 08-15

IMPROVED BRIGHTNESS & CONTRAST IN EXPERIMENTAL MODEL OF RANDOM-ACCESS SOLID-STATE PANEL DISPLAY SYSTEM
RTD-TDR-63-4294 N64-17115 09-06

TECHNIQUE FOR PERIPHERALLY EXTENDING OPTICAL DISPLAY FIELD BY PRESENTING EXTRAFIELD ERROR IN ARC FORM AT EDGE OF DISPLAY
NRL-1506 N64-18033 10-23

RHO-RHO COMPUTER DISPLAY - AIRBORNE DIRECT VIEW PICTORIAL MAP DISPLAY AND COURSE LINE COMPUTER
RD-64-10 N64-19474 12-10

RADAR SENSOR AND VERTICAL DISPLAY FOR AIRBORNE INSTRUMENT LANDING SYSTEM
AD-435558 N64-19776 12-08

TWO-COLOR DIRECT VIEW DISPLAY SYSTEM WITH SELECTIVE ERASURE
AD-428609 N64-19969 12-09

PHOTOCONDUCTOR AND ELECTROLUMINESCENT LAMP FOR SOLID STATE DISPLAY DEVICE
RTD-TDR-63-4163 N64-20384 13-09

APPROACH AND LANDING DISPLAY SYSTEM COMPONENTS AND COMPATIBILITY WITH COMPUTER OUTPUTS
NASA-CR-53969 N64-20600 13-10

VISUAL AND AUDIBLE SIGNAL MECHANISMS FOR ALTIMETER DISPLAY SYSTEM
FPRC-1215 N64-20627 13-15

PHOSPHOR SCREENS FOR HIGH RESOLUTION DISPLAY DEVICE
AL-TDR-64-94 N64-21105 14-17

PROJECTED SYMBOLIC DISPLAY SYSTEM FOR TRANSPORT AIRCRAFT
ARL/HE-14 N64-21385 14-15

OPTIMIZATION OF AVIATION WEATHER CONDITION DATA DISPLAY SYSTEM
RD-64-59 N64-23174 16-21

APPLICATION OF PHOTOMETRY TO ELECTRONIC DISPLAY SYSTEM
AFCRL-64-271 N64-23877 16-09

DIGITAL TIME-INTERVAL COUNTER FOR RANGE READING DISPLAY WHEN COUPLED TO LASER RANGEFINDER
HDL-TR-1199 N64-24331 17-15

EXPERIMENTAL TESTING AND EVALUATION OF ALTIMETER DISPLAY DESIGNS
ASD-TDR-63-623, PT. 3 N64-24948 17-15

READING ACCURACY AND ALTITUDE CONTROL ACCURACY WITH VARIOUS ALTIMETER DISPLAY SYSTEMS
NRL-MEMO-1522 N64-25596 17-15

ALTIMETER DISPLAY SYSTEM - FLIGHT CONTROL INFORMATION REQUIREMENTS
ASD-TDR-63-621, PT. 1 N64-26191 18-15

SOLID STATE LIGHT VALVE FOR PROJECTION DISPLAY
RADC-TDR-64-192 N64-26232 18-25

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN AND ENGINEERING - BIOINSTRUMENTATION
NASA-CR-76 N64-26609 18-16

FLIGHT INFORMATION SENSORS, DISPLAY SYSTEM, AND CONTROL OF X-15 AIRCRAFT FOR HIGH ALTITUDE FLYING
NASA-TN-D-2407 N64-26629 18-15

RESEARCH SIMULATOR FOR STUDYING CONTROL AND DISPLAY PROBLEMS OF V/STOL AIRCRAFT
REPT.-2120-920002 N64-26659 18-04

METHODOLOGY OF DISPLAY SYSTEM EVALUATION FOR APPLICATION TO STATIC TESTING OF ALTIMETER DISPLAY DESIGNS
ASD-TDR-63-622 N64-26899 18-15

DYNAMIC LARGE SCREEN ELECTROCHEMICAL DISPLAY EMPLOYING PHOTOCONDUCTOR PHENOMENA IN CONJUNCTION WITH ELECTROCHEMICAL DEPOSITION ACTION
RADC-TDR-64-137 N64-26936 18-15

POSITIVE VISUAL AFTER-IMAGE OF DISPLAY MATERIAL FOR RECALL INFORMATION
NAVTRADEVCEN-1303-3 N64-26953 18-14

INTEGRATED DISPLAY SYSTEM FOR X-15A AIRCRAFT
NASA-CR-58177 N64-27380 19-04

INFORMATION DISPLAY STUDY TO AID IN PILOT

PERFORMANCE DURING ALL-WEATHER AIRCRAFT LANDING
NASA-CR-58030 N64-27814 19-22

COMPUTER EQUIPMENT FOR GENERATION AND DISPLAY OF THREE DIMENSIONAL CURVILINEAR FIGURES
ESL-TM-167 N64-28145 20-20

INFORMATION ASSIMILATION FROM SYMBOLIC DISPLAYS - EFFECT OF AMOUNT OF INFORMATION PRESENTED AND EFFECT OF UPDATING
USAPRO-TR-N-139 N64-28452 20-08

DIGITAL DISPLAY AERIAL SURVEY METER FOR MEASUREMENT OF RADIOACTIVE FALLOUT
OCD-2131-F N64-30055 21-15

PICTORIAL NAVIGATION DISPLAY SYSTEMS FOR LOW ALTITUDE TACTICAL SITUATIONS
AD-601711 N64-30551 22-22

EVALUATION OF ANALOG DISPLAY FOR HELICOPTER FLIGHT MANEUVERS
D228-421-017 N64-30578 22-10

INFORMATION ASSIMILATION FROM ALPHA-NUMERIC DISPLAYS - HUMAN PERCEPTION
AD-601973 N64-30646 22-14

NONLINEAR RESISTIVE, PHOTOCONDUCTIVE, AND ELECTROLUMINESCENT LAYERS FOR CROSSED GRID DISPLAY
GE/EE/63-2 N64-31151 22-09

HUMAN BEHAVIOR - PSYCHOLOGICAL RESEARCH ON DISPLAY VARIABLES
RADC-TDR-64-266 N64-31695 23-14

FORTRAN PROGRAM SUMX - DATA SUMMARIZATION AND DISPLAY CONSTRUCTION FROM RECORDED INFORMATION ON MAGNETIC TAPE
UCRL-11222 N64-33147 24-20

DISSOCIATION
SA ELECTROLYSIS
SA GAS DISSOCIATION
CF CHEMICAL REACTION
CF DECOMPOSITION
DISSOCIATION RATE OF CARBON DIOXIDE DILUTED WITH ARGON - SHOCK TUBE DETERMINATIONS
NASA-RP-51 N64-10290 01-11

FREE OXYGEN IN EARTH ATMOSPHERE RESULTING FROM PHOTODISSOCIATION OF WATER VAPOR PRIOR TO ORGANIC LIFE
NASA-TT-F-86 N64-10522 01-12

MASS SPECTROMETRIC DETERMINATION OF DISSOCIATION ENERGIES OF GASEOUS INDIUM-SULFUR COMPOUNDS
WADD-TR-60-782, PT. 12 N64-11171 02-18

WIND TUNNEL TEST SECTION CONDITIONS - DISSOCIATION OF OXYGEN AND STAGNATION LINE OF SPHERE
AEDC-TDR-63-243 N64-11450 03-02

HYPERSONIC FLOW WITH NONEQUILIBRIUM DISSOCIATION AROUND BLUNT BODIES IN FLOW FACILITIES & FREE FLIGHT
NASA-CR-55138 N64-13055 04-11

SURFACE RECOMBINATION OF DISSOCIATED ATOMS IN CHEMICALLY FROZEN BOUNDARY LAYERS
SSD-TDR-63-285 N64-13610 05-11

MOLYBDENUM SINGLE CRYSTAL GROWTH FROM GASEOUS PHASE OF MOLYBDENUM CHLORIDE BY THERMAL DISSOCIATION N64-13730 05-25

COLLISION-INDUCED DISSOCIATION RATES IN THERMAL PLASMAS
AIAA PAPER-64-55 N64-14064 05-24

DISSOCIATION & POLYMERIZATION ENERGIES OF GROUP IV - GROUP VI COMPOUNDS - MASS SPECTROMETRIC INVESTIGATION
WADD-TR-60-782, PT. 15 N64-14512 06-07

MASS SPECTROMETRIC DETERMINATION OF DISSOCIATION ENERGY OF SCANDIUM, YTTRIUM, LANTHANUM, & YTTRIUM-LANTHANUM ALLOY
WADD-TR-60-782, PT. 19 N64-14514 06-07

CHEMICAL RELAXATION BEHIND NORMAL SHOCK WAVES IN CARBON DIOXIDE INCLUDING INTERDEPENDENT DISSOCIATION AND IONIZATION PROCESSES
NASA-TN-D-2131 N64-15221 07-07

DISSOCIATION RATE AND RECOMBINATION OF DIATOMIC MOLECULES
AD-429188 N64-15957 07-23

SOLAR ULTRAVIOLET RAY EFFECT ON OXYGEN MOLECULE DISSOCIATION IN POLAR UPPER ATMOSPHERE
NASA-TR-R-141 N64-16005 07-12

D-LAYER DISSOCIATIVE RECOMBINATION COEFFICIENT DETERMINED FROM HIGH ALTITUDE NUCLEAR EXPLOSION
P-2756 N64-16248 08-12

INCREASED EFFECTIVENESS OF GASES AS NATURAL CONVECTIVE HEAT TRANSFER MEDIA BY MOLECULAR DISSOCIATION - COOLANT RESEARCH
TP-83 N64-17434 09-13

COLLISION-INDUCED DISSOCIATION RATES OF DIATOMIC AND TRIATOMIC MOLECULES
NASA-CR-53345 N64-17822 09-23

OXYGEN DISSOCIATION CURVE DETERMINATION - POLAROGRAPHIC MEASUREMENTS OF OXYGEN TENSION N64-17938 10-16

DISSOCIATION, IONIZATION, AND INTERMOLECULAR FORCES EFFECT ON SHOCK WAVES IN IMPERFECT AIR - GAS DYNAMICS
AEDC-TDR-64-43 N64-18039 10-23

RECOMBINATION OF MOLECULAR POSITIVE IONS WITH ELECTRONS - DISSOCIATIVE RECOMBINATION
APP-5, TR-4 N64-20540 13-24

NORMAL AND OBLIQUE SHOCK WAVE PARAMETERS WITH DISSOCIATED AMBIENT CONDITIONS IN HYPERSONIC FLOW
U-RD-6333 N64-20697 13-11

MASS SPECTROMETRIC DETERMINATION OF DISSOCIATION ENERGY OF VARIOUS METALLIC OXIDES
WADD-TR-60-782, PT.XXII N64-21456 14-19

AMBIENT DISSOCIATION EFFECTS ON NONEQUILIBRIUM SHOCK LAYER FLOW
ARL-64-42 N64-22312 15-11

ION DISSOCIATION IN DRIFT TUBE OF TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-64-90 N64-24197 16-15

DISSOCIATION CHEMISTRY OF NITROGEN-FLUORINE COMPOUNDS
EXP-223 N64-24916 17-07

MOLECULAR BEAM DETERMINATION OF ENERGY LEVELS IN PHOTODISSOCIATION OF POLYATOMIC MOLECULES
UCRL-11359 N64-25817 17-23

EFFECT OF CATALYTIC SURFACES ON STAGNATION POINT HEAT TRANSFER IN PARTIALLY DISSOCIATED FLOWS N64-26159 18-13

SOURCE OF PROTONS WITH THERMAL DISSOCIATION OF HYDROGEN MOLECULE
FTD-TT-64-522/1&2 N64-26162 18-23

THERMAL DISSOCIATION OF CARBON DIOXIDE FOR TEMPERATURES FROM 6000 TO 10000 DEG K - HIGH TEMPERATURE PROPERTIES OF MARS & VENUS ATMOSPHERES
NASA-CR-56537 N64-27302 19-07

DISSOCIATION OF ETHANE MOLECULE IONS FORMED IN CHARGE EXCHANGE COLLISIONS WITH POSITIVE IONS
AFCRL-64-578 N64-27495 19-07

DISSOCIATION OF METHANE MOLECULE IONS FORMED IN CHARGE EXCHANGE COLLISIONS WITH POSITIVE IONS - ION-MOLECULE REACTIONS OF METHANE
AFCRL-64-545 N64-27535 19-07

DISSOCIATION ENERGIES OF DIATOMIC MOLECULES OF TRANSITION ELEMENTS - NICKEL
AMRA-TR-64-11 N64-28669 20-07

SHOCK TRANSITION CONDITIONS FOR NORMAL AND OBLIQUE SHOCKS IN AIR WITHIN RANGE OF OXYGEN DISSOCIATION
NASA-CR-58498 N64-28753 20-11

MASS SPECTRAL STUDY OF KINETICS BEHIND SHOCK WAVES - THERMAL DISSOCIATION OF CHLORINE
DOW-AR-25-63 N64-30201 21-07

DIGITAL COMPUTER METHOD FOR CALCULATION OF ACID DISSOCIATION CONSTANTS
IS-822 N64-30667 22-07

PHOTODISSOCIATION EFFECTS ON DISTRIBUTION OF SURFACE BRIGHTNESS IN CARBON ATMOSPHERE OF COMETS
NASA-TT-F-8948 N64-30841 22-05

WEAK INTERACTION MODEL FOR GAS PHASE REACTION BETWEEN DIATOMIC MOLECULES AND INERT GAS
TN-6 N64-31297 22-07

FLIGHT-TIME SHIFT EQUATIONS FOR SPURIOUS FRAGMENT PEAKS ARISING FROM CHARGE TRANSFER AND ION DISSOCIATION REACTIONS OCCURRING INSIDE POTENTIAL BARRIER OF REACTANT REGION
AFCRL-64-519 N64-31806 23-24

DISTANCE
THEORY OF SELECTIVE INTERSTELLAR ABSORPTION USED TO DETERMINE DISTANCES OF REMOTE STARS
FTD-TT-63-793/1&2 N64-29589 21-05

DISTANCE MEASURING EQUIPMENT
PHOTOTACHYMETRY - MEASUREMENT OF LONG DISTANCES WITH HIGH PRECISION
JPRS-21509 N64-10195 01-15

DISTANCE MEASURING ACCURACY OF TACTICAL AIR NAVIGATION /TACAN/, NONSTANDARD MEASURING, & RADAR IDENTIFICATION SET EQUIPMENT SYSTEMS
N64-10412 01-22

ARRANGEMENT OF ELECTRONIC RANGEFINDER TO MEASURE SMALL DISTANCES
FTD-TT-62-1732/1&2 N64-12317 03-09

DISTANCE MEASUREMENTS FROM AIRCRAFT TO EARTH SURFACE BY FREQUENCY-MODULATED CONTINUOUS WAVE RADIO ALTIMETER N64-15147 07-08

PRECISION DISTANCE MEASURING EQUIPMENT
CERN-64-16 N64-20509 13-15

OPTICAL DISTANCE FINDER FOR GEODETIC STUDIES USING PULSE RADAR
FTD-TT-64-182/1&2&4 N64-26094 18-17

GEODIMETER - OPTICAL RADAR DISTANCE MEASURING EQUIPMENT
FTD-TT-63-1154/1&2&4 N64-27839 19-15

PRECISION POSITION DETERMINATION BY DISTANCE MEASURING TECHNIQUES USING ELECTRONIC METHODS AND OSCILLATORS
REPT.-2900-453-T N64-32674 23-23

FLIGHT TEST OF MODIFIED GROUND BEACON AND DISTANCE MEASURING EQUIPMENT FOR INSTRUMENT LANDING SYSTEM
AD-602743 N64-33068 24-22

DISTANCE PERCEPTION
S DEPTH PERCEPTION

DISTILLATION
PREPARATION OF HIGH PURITY BERYLLIUM METAL BY DISTILLATION PROCESS
AD-440233 N64-22958 16-18

PRODUCTION METHOD TO OBTAIN IODINE 131 BY DRY DISTILLATION FROM URANIUM OXIDES
N64-23058 16-23

ANNOTATED BIBLIOGRAPHY ON HIGH VACUUM LIQUID METAL DISTILLATION
IS-799 N64-26029 18-18

PREPARATION OF HIGH PURITY BERYLLIUM BY DOUBLE VACUUM DISTILLATION
ASD-TDR-62-509, VOL. III N64-33908 24-18

DISTILLATION APPARATUS
VACUUM SYSTEM AND DISTILLATION APPARATUS TO CONCENTRATE SOLUTIONS OF THERMAL DEGRADATION PRODUCTS RESULTING FROM GAMMA RADIATION IN RESINS
K-1594 N64-20481 13-07

FRACTION COLLECTOR FOR DISTILLATION AND SUBSEQUENT HANDLING OF AIR AND/OR MOISTURE SENSITIVE COMPOUNDS
SUFFIELD-TN-128 N64-32879 24-07

DISTORTION
CF DEFORMATION
DISTORTING INFLUENCE OF EARTH-AIR DISCONTINUITY ON ELECTRIC FIELD OF VERTICALLY POLARIZED SPHERE
N64-10166 01-12

FRESNEL ZONE PLATE INSTRUMENT FOR CONTRAST TRANSFER FUNCTION, POINT IMAGING, AND DISTORTION MEASUREMENTS
E-T-G-63-32 N64-15373 07-23

DISTORTION STUDY OF NANOSECOND PULSES
N64-16140 08-09

DISTORTION EFFECT OF DISCONTINUOUS CURVATURE BY REFRACTED WAVES FROM SEISMIC SOUNDING
JPRS-23759 N64-17245 09-12

LIMITATIONS ON ABILITY TO POSITION AND LOCATE OBJECTS IN SPACE DUE TO DISTORTION BY EARTH ATMOSPHERE - TARGET ACQUISITION
SRA-356 N64-17361 09-12

NEGATIVE LENSES IN OPTICAL SYSTEMS FOR IMPROVED LIGHT DISTRIBUTION AND DISTORTION CORRECTION
N64-23546 16-06

MATHEMATICAL ANALYSIS OF IMPULSE VOLTAGE REGULATION USING DISTORTION RESISTANCE
N64-23579 16-09

X-RAY INVESTIGATION OF DISTORTION OF CRYSTALLINE STRUCTURE OF STEEL AND RED COPPER SUBJECTED TO FATIGUE TESTING N64-23835 16-33

X-RAY INVESTIGATION OF DISTORTION OF STRUCTURE OF STEEL DURING ROLLING FRICTION N64-23838 16-33

X-RAY ANALYSIS OF DISTORTIONS OF CRYSTALLINE STRUCTURES IN SURFACE LAYERS OF METAL SUBJECTED TO POWER CUTTING N64-23842 16-33

SIGNAL DISTORTION - LOGICAL POSSIBILITIES OF ACTUAL NOISE THRESHOLD ELEMENTS
N64-24692 17-20

RADIAL DISTORTION CALIBRATION OF BALLISTIC CAMERAS
WRE-TN-DID-34 N64-28730 20-15

NONLINEAR DISTORTION OF PERIODIC MAGNETOHYDRODYNAMIC WAVES
ARL-63-196 N64-31236 22-24

DISTORTION ERRORS IN VOLTAGE CURVE OF STATIC TRANSFORMER FOR WATTMETER N64-31852 23-09

DISTORTION CORRECTION IN WIDE ANGLE LENS COMPOSED OF NEGATIVE COMPONENTS N64-31868 23-23

EVALUATION OF PHASE AND AMPLITUDE CORRELATION FUNCTIONS FOR ATMOSPHERICALLY DISTORTED WAVE FRONT
TM-127 N64-32763 24-08

ANGULAR SCINTILLATION CORRELATION FUNCTION OF DISTORTED WAVE FRONT
TM-131 N64-32764 24-08

ANTENNA PATTERN DISTORTION DUE TO RADOME METAL FRAME - BEAM DISTORTION BY CONDUCTING CYLINDER IN APERATURE OF GROUND SEARCH ANTENNA
REPT.-1751-1 N64-33765 24-08

DISTRIBUTION
S ANGULAR DISTRIBUTION
S CHARGE DISTRIBUTION
S CURRENT DISTRIBUTION
S DENSITY DISTRIBUTION
S FREQUENCY DISTRIBUTION

S ION DISTRIBUTION
S LIFT DISTRIBUTION
S LOAD DISTRIBUTION
S MASS DISTRIBUTION
S MOMENT DISTRIBUTION
S POISSON DISTRIBUTION
S PROBABILITY DISTRIBUTION
S RADIAL DISTRIBUTION
S RANDOM DISTRIBUTION
S SPECTRAL ENERGY DISTRIBUTION
S STRESS DISTRIBUTION
S STRESS-STRAIN DISTRIBUTION
S TEMPERATURE DISTRIBUTION

DISTRIBUTION FUNCTION
DEVISING AND EQUATING DISTRIBUTION SERIES AND COMPUTATION OF THEORIES FROM STATISTICAL DATA CHARACTERISTICS - BOOK REVIEW
JPRS-18338 N64-10502 01-20

PERCENTAGE POINT TABLE OF RATIO OF SAMPLE RANGES FROM RECTANGULAR POPULATION DISTRIBUTION - PROBABILITY THEORY
ARL-63-194 N64-13655 05-20

SOLUTION OF TRANSPORT PROBLEM WITH CONTINUOUS DISTRIBUTION OF CONSUMERS N64-16227 08-20

ASYMPTOTIC JOINT NORMALITY OF SAMPLE QUANTILES FROM MULTIVARIATE POPULATIONS
NRC-446 N64-18375 10-20

DISTRIBUTION FUNCTION FOR LENGTH OF MAXIMUM CARRY IN ADDING SECTION OF COMPUTER
JPRS-24073 N64-18399 10-20

DISTRIBUTION FUNCTIONS OF BALLOT THEOREM IN ORDER STATISTICS
CU-40-64-NONR-266/33/NS N64-20544 13-20

RESPONSE FUNCTIONS OF TAYLOR ANTENNA DISTRIBUTIONS
AFCRL-63-368 N64-24813 17-08

DISTRIBUTION FUNCTIONS FROM SMALL NUMBER OF OBSERVATIONS OF STOCHASTIC EVENTS
FTD-TT-62-1048/1&2&4 N64-25077 17-20

SPEED DISTRIBUTION IN WELL-COLLIMATED MOLECULAR BEAM PRODUCED BY NEARLY COLLISIONLESS EFFUSION
UVA-4-P-1 N64-27559 19-11

DISTRIBUTION FUNCTIONS OF ARGON AND XENON FLOW THROUGH CIRCULAR ORIFICE
UVA-5-P N64-27722 19-11

BAYESIAN SINGLE SAMPLING ATTRIBUTE PLANS OBTAINED BY MINIMIZING AVERAGE COSTS AND ASSUMING DOUBLE BINOMIAL DISTRIBUTION
TR-5 N64-29606 21-20

CUMULATIVE PROBABILITY DISTRIBUTION FUNCTION OF QUOTIENT OF CHI-SQUARE VARIATE RATIO DIVIDED BY DEGREE-OF-FREEDOM RATIO - DOUBLY NONCENTRAL F-DISTRIBUTION
ESD-TDR-63-556 N64-32081 23-20

INTERACTION OF ELECTROMAGNETIC WAVES AND CLASSICAL PLASMAS - DISTRIBUTION FUNCTION THEORY AND BOLTZMANN EQUATION
R-7-64-1 N64-32159 23-24

DISTURBANCE THEORY
ELECTRONIC COMPUTER SOLUTION TO DISTURBANCE AND RELATED PROBLEMS OF DYNAMIC PROGRAMMING THEORY
N64-11612 03-20

APPLICATION OF HARTREE-FOCK SECOND ORDER DISTURBANCES CALCULATION FOR BERYLLIUM SYSTEMS
N64-17012 09-23

SHORT AND LONG WAVELENGTH DISTURBANCES OF TWO-COMPONENT COLLISIONLESS PLASMA POLARIZED PARALLEL TO MAGNETIC FIELD
AGN-115 N64-25813 17-24

DISTURBING FUNCTION
AUTOMATIC, GYROSCOPIC CONTROL SYSTEM INVARIANCE AS FUNCTION OF DISTURBANCES & SCALAR CONTROL VARIABLE
N64-11369 02-06

LONG-PERIOD EFFECTS IN NEARLY COMMENSURABLE CASES OF RESTRICTED THREE-BODY PROBLEM - DISTURBING FUNCTION
NASA-CR-56079 N64-20641 13-23

DIURESIS
WATER INTOXICATION & DIURESIS IN ADRENAL INSUFFICIENCY AND SIGNIFICANCE OF ADRENAL GLAND IN OSMOREGULATION
NASA-TT-F-9115 N64-33397 24-16

DIURNAL VARIATION
RECORDINGS OF DIURNAL AND PHASE CHANGES IN IONOSPHERE CURRENTS
RADC-TDR-63-389 N64-12307 03-08

DIURNAL VARIATIONS OF PRESSURE, TEMPERATURE, AND COMPOSITION IN EARTHS UPPER ATMOSPHERE
RM-3847-PR N64-12687 04-12

PHASE CHANGE BETWEEN PHASE AND DIURNAL VARIATION OF VERY LOW FREQUENCY SIGNALS
NBS-TN-206-1 N64-13941 05-08

DIURNAL VARIATION OF SOLAR ULTRARADIATION IN THERMOSPHERE N64-17003 09-12

DIURNAL VARIATIONS OF STRATOSPHERIC DENSITY ABOVE 30 KILOMETERS USING METEOROLOGICAL SOUNDING ROCKET
ERDA-114 N64-17323 09-12

DIURNAL VARIATIONS OF ATOMIC OXYGEN AND OZONE IN MESOSPHERE
WRE-TN-PAD-82 N64-19473 12-12

LARGE DIURNAL VARIATIONS OF GEOMAGNETICALLY TRAPPED AND PRECIPITATED ELECTRONS OBSERVED AT LOW ALTITUDES
NASA-CR-53829 N64-19615 12-20

DIURNAL VARIATION IN VERY LOW FREQUENCY RADIO PROPAGATION OVER SINGLE MODE PATHS
N64-19692 12-12

STATISTICAL PREDICTION OF DIURNAL PHASE CHANGES RESULTING FROM CHANGE IN ALTITUDE OF IONOSPHERIC REFLECTING LAYER N64-19693 12-12

DIURNAL VARIATION OF NUCLEON AND MESON COMPONENTS DURING COSMIC RAY STORMS
AFCRL-64-403 N64-22301 15-12

DIURNAL VARIATION OF COSMIC RAYS USING CROSSED TELESCOPE OBSERVATIONS N64-24442 17-28

SOLAR DIURNAL VARIATIONS IN COSMIC RAYS DURING YEAR 1954 N64-24443 17-28

SOLAR DIURNAL VARIATIONS IN COSMIC RAY INTENSITY FROM SURFACE AND BELOW GROUND MEASUREMENTS
N64-24444 17-28

SPURIOUS DIURNAL VARIATIONS AND ANISOTROPY OF COSMIC RAYS DURING MAGNETIC STORMS
N64-24445 17-28

LUNAR DIURNAL VARIATION OF COSMIC RAYS
N64-24447 17-28

RELATION OF VEGETATION ALBEDO DIURNAL VARIATION TO SOLAR RADIATION SCATTERING N64-24792 17-21

CLOUD PATTERNS, TROPICAL CYCLONE, AND DIURNAL VARIATION STUDIES FROM TIROS I SATELLITE PICTURES
AFCRL-64-327 N64-25375 17-21

DIURNAL VARIATION OF HYDROGEN CONCENTRATION IN EXOSPHERE N64-26297 18-12

LARGE DIURNAL VARIATIONS IN ELECTRON INTENSITIES OF GEOMAGNETICALLY TRAPPED AND PRECIPITATED ELECTRONS OBSERVED IN DATA FROM LOW ALTITUDE INJUN III SATELLITE N64-29386 21-12

FREQUENCY DISTRIBUTION AND DIURNAL VARIATION OF WIND TO ESTIMATE ENERGY EXTRACTABLE BY WINDMILL
TN-WP-27-63 N64-29422 21-21

MEAN DIURNAL VARIATION OF TOPSIDE IONOSPHERE AT

MID-LATITUDES USING ALOUETTE SATELLITE DATA
NASA-TM-X-55042 N64-29517 21-12

UPPER IONOSPHERE DIURNAL, SEASONAL, AND GEOGRAPHICAL VARIATIONS IN SCALE HEIGHT AND TOTAL ELECTRON NUMBER N64-29723 21-12

DIURNAL VARIATIONS IN HORIZONTAL AND VERTICAL DISTRIBUTION OF ATMOSPHERIC DENSITY FOR ALTITUDES UP TO 90 KM
AFCRL-64-483 N64-32184 23-12

DIURNAL VARIATION OF IONOSPHERIC ELECTRON CONTENT FROM DOPPLER SLOPES OF SIMULTANEOUS SATELLITE SIGNALS
NRI-106.04 N64-32443 23-12

MEAN DIURNAL VARIATION OF TOPSIDE IONOSPHERE AT MID-LATITUDES
NASA-RP-344 N64-32640 23-12

PROPAGATION OF VLF RADIO WAVES ACROSS AURORAL ZONE
SU-SEL-64-051 N64-33017 24-08

DIVERGENT NOZZLE
OPTIMUM CRITICAL OPERATING PARAMETERS FOR NONISOBARIC MOTOR WITH DIVERGENT NOZZLE
FTD-TT-64-497/1&2&3&4 N64-30121 21-27

DNA
S DEOXYRIBONUCLEIC ACID

DOCKING
PILOT CONTROL OF ORBITAL DOCKING OF ATTITUDE-STABILIZED VEHICLE BY VISUAL-CUE GUIDANCE - FIXED-BASE SIMULATOR
NASA-TN-D-2036 N64-12715 04-14

PRECISION RADAR FOR SPACECRAFT RENDEZVOUS AND DOCKING N64-16187 08-08

OPTICAL RADAR FOR SPACE RENDEZVOUS AND DOCKING N64-16189 08-08

DETERMINATION OF SPEED AND SEPARATION DURING DOCKING OF SPACE VEHICLES - METHODS USING DOPPLER EFFECT, MOSSBAUER EFFECT, & ATOMIC RESONANCE
R63SD314 N64-16913 09-22

GEMINI-AGENA DOCKING USING FIXED AND MOVING-BASE SIMULATORS
AIAA PAPER-64-334 N64-21352 14-32

ANALYTICAL FORMULATION OF MINIMUM FUEL CONSUMPTION FOR DOCKING WITH EARTH SATELLITE
NASA-CR-58222 N64-27906 20-29

DOG
PROPAGATION OF ULTRASONIC WAVES IN BLOOD OF DOGS - DYNAMICS OF ACUTE RADIATION SICKNESS
JPRS-21775 N64-10206 01-16

SOME DISTRIBUTION CHARACTERISTICS OF STRONTIUM 90 IN SKELETONS OF DOGS AFTER SINGLE AND LONG-TERM DOSES
JPRS-21997 N64-10389 01-16

PROTON AND GAMMA IRRADIATION EFFECT ON FUNCTION OF VESTIBULAR ANALYZER IN DOGS
JPRS-22120 N64-11273 02-16

PREVENTION AND TREATMENT OF ACUTE RADIATION SICKNESS IN DOGS WITH SODIUM GALLATE
JPRS-19269 N64-11349 02-16

NERVOUS RESPONSE OF MAN TO INCREASED GRAVITY AND SPACE FLIGHT CONDITIONS - MOBILITY IN PRENATALLY IRRADIATED DOGS
JPRS-17586 N64-11521 03-01

MOBILITY RESPONSES IN ANTENATALLY IRRADIATED DOGS AT VARIOUS AGES - SENSORY STIMULATION N64-11524 03-16

BIOCHEMICAL INVESTIGATION OF BLOOD & URINE OF DOGS AFTER SPACE FLIGHT N64-11673 03-16

BIOCHEMICAL INVESTIGATION OF BLOOD OF DOGS AFTER SPACE FLIGHT N64-11674 03-16

BLOOD CIRCULATION IN EARS OF DOGS AFTER SPACE FLIGHT N64-11675 03-16

METHODS FOR RECORDING PHYSIOLOGICAL DATA IN DOG LAYKA DURING SOVIET SPACE FLIGHT N64-11690 03-16

SELECTION & PREPARATION OF DOGS FOR SPACE FLIGHT EXPERIMENTATION N64-11692 03-16

HARNESS FOR AFFIXING SENSORS TO DOGS FOR REGISTRATION OF PHYSIOLOGICAL PHENOMENA DURING SPACE FLIGHT N64-11694 03-16

PROVIDING FOOD AND WATER FOR DOGS DURING SPACE FLIGHT N64-11695 03-16

BIOLOGICAL & PHYSIOLOGICAL INVESTIGATIONS CARRIED OUT ON DOGS IN PRESSURIZED SPACE CABIN DURING SPACE FLIGHT N64-11696 03-16

PHYSIOLOGY OF DOG RESPIRATORY AND CARDIOVASCULAR SYSTEMS DURING STRESS OF ACCELERATION N64-11699 03-16

EFFECT OF ACCELERATION STRESS & WEIGHTLESSNESS ON PHYSIOLOGICAL FUNCTIONS OF DOGS IN BALLISTIC ROCKET FLIGHTS N64-11860 03-16

X-RADIATION EFFECTS ON LIFESPAN, & CARDIOVASCULAR AND REPRODUCTIVE SYSTEMS OF DOG
UCD-107 N64-12111 03-16

BONE MARROW TRANSPLANTATION EFFECT ON DOGS WITH ACUTE RADIATION SICKNESS
JPRS-22591 N64-12149 03-16

REDUCED SET POINT TEMPERATURE IN EXERCISING DOG
AMRL-TDR-63-93 N64-12219 03-16

BIOLOGICAL EFFECT OF LOW DOSES OF RADIOACTIVE ISOTOPES - SODIUM-24 AND PHOSPHORUS-32 IN RATS, RABBITS, AND DOGS N64-12433 04-16

DIRECT-CURRENT EFFECT ON ULTRABOUNDARY INHIBITION IN DOGS N64-12725 04-16

PROTEIN METABOLISM IN DOGS GIVEN TREATMENT FOR ACUTE RADIATION SICKNESS N64-12780 04-16

INOCULATION OF DOG LIVER WITH VIRUS FOR SUSCEPTIBILITY TEST
LF-10 N64-13344 04-16

REPEATED POSITIVE ACCELERATION OF LOW INTENSITY & LONG DURATION - ANATOMICAL STUDY OF DOG KIDNEY N64-13462 05-16

RECTAL TEMPERATURE OF WORKING SLED DOGS IN LOW TEMPERATURE ENVIRONMENT
AAL-TDR-63-40 N64-13633 05-16

EFFECTS OF EXTERNALLY APPLIED PHYSICAL VIBRATION ON TISSUES OF DOG EYE
AMRL-TDR-63-120 N64-14696 06-16

CARDIORESPIRATORY RESPONSES OF ANESTHETIZED DOGS TO COMPRESSION THERAPY FOLLOWING EXPERIMENTAL DECOMPRESSION SICKNESS
SAM-TDR-63-94 N64-15744 07-16

TOXICOLOGY - EFFECTS OF ENDRIN INSECTICIDE ON DOG CARDIOVASCULAR SYSTEM
CARI-63-16 N64-16541 08-16

TECHNIQUES FOR MEASURING INTRAPLEURAL AND PERICARDIAL PRESSURES IN DOGS
AMRL-TDR-63-107 N64-16809 08-16

OXYGEN & CARBON DIOXIDE TENSIONS IN DOG PULMONARY VEIN N64-17943 10-16

DISTRIBUTION OF LUNG DIFFUSING CAPACITY IN ANESTHETIZED DOG - BLOOD FLOW N64-17946 10-16

CHANGES IN ARTERIAL LACTIC ACID OF DOGS AT HIGH ALTITUDE
SAM-TDR-64-2 N64-18086 11-16

ADDITION OF MODES OF RADIATION INJURY IN PRODUCING LETHALITY IN DOGS, MICE, AND RATS
UR-654 N64-20696 13-16

MEASUREMENT OF ISOMETRIC CONTRACTION AND EJECTION TIME BY VIBROCARDIOGRAM OF ANESTHETIZED DOG
N64-21346 14-16

CATECHOLAMINES IN VARIOUS ORGANS OF DOGS UNDER CONDITIONS OF DEEP HYPOTHERMIA
FTD-TT-63-1096/1&2 N64-22142 15-16

EFFECTS OF INSECTICIDE ENDRIN ON RENAL FUNCTION & HEMODYNAMICS IN DOGS
CARI-63-26 N64-23700 16-16

X-RAY IRRADIATION EFFECTS ON WORK CAPACITY AND LIFESPAN OF DOGS
UCD-472-109 N64-25111 17-16

EFFECT OF STRONTIUM 90 AND RADIUM 226 ON BEAGLE
UCD-472-110 N64-26043 18-16

CHANGES OF HEMATOPOIETIC TISSUE IN DOG WITH ACUTE RADIATION SICKNESS AFTER BONE MARROW TRANSPLANT
JPRS-25281 N64-26055 18-16

NORMAL VARIATIONS OF VECTORCARDIOGRAM COMPONENTS IN DOG, CAT, AND RABBIT
JPRS-25599 N64-27318 19-16

OXYGEN TENSION IN LIVING BRAIN TISSUE OF DOG DURING LONG ACCELERATION
FTD-TT-63-848/1&2 N64-29278 21-16

CHANGES IN CEREBRAL METABOLIC PARAMETERS OF DOGS DURING PROGRESSIVE HYPOTHERMIA
SAM-TDR-64-44 N64-29288 21-16

CATHETER-TIP FLOW METER FOR MEASUREMENT OF CORONARY ARTERIAL BLOOD FLOW IN DOGS
SAM-TDR-64-33 N64-29989 21-16

MORPHOLOGICAL CONNECTIONS AND RESPONSES OF VISUAL ANALYZER IN CEREBRAL CORTEX OF DOG
N64-31462 23-16

PATHS FOR PRIMARY SPECIFIC INFORMATION CONDUCTION IN VISUAL ANALYZER SYSTEM OF DOG
N64-31463 23-16

INTERACTION OF EXCITATION & INHIBITION PROCESSES IN ACOUSTIC ANALYZER OF DOG IN RESPONSE TO PURE TONES N64-31464 23-16

ENDOCRINE AND METABOLIC RESPONSE OF RESTRAINED DOGS TO WHOLE-BODY VIBRATION
AMRL-TDR-64-54 N64-31943 23-16

HEMATOLOGICAL, BIOCHEMICAL, AND MORPHOLOGICAL CHANGES IN DOGS DURING RECOVERY PERIOD FROM RADIATION SICKNESS N64-32780 24-16

DOLPHIN
COMMUNICATION BETWEEN MAN AND OTHER SPECIES - DOLPHIN STUDIES
NASA-CR-56530 N64-22791 16-16

BIOLOGICAL COMMUNICATIONS RESEARCH - COMMUNICATION BETWEEN DOLPHINS
NASA-CR-53228 N64-23391 16-16

DOMAIN WALL MOTION
GREEN FUNCTION METHOD FOR QUASI-PARTICLE LIFETIMES AND QUANTUM THEORY OF DOMAIN WALL MOTION
TR-186 AND 187 N64-19426 12-23

QUANTUM THEORY OF DOMAIN WALL MOTION
N64-19428 12-23

DONNELL EQUATION
DONNELL EQUATIONS FOR DEFORMATIONS OF THIN CYLINDRICAL ELASTIC SHELL SUBJECTED TO LATERAL PRESSURE
IMM-NYU-320 N64-20570 13-33

OSCILLATING BEHAVIOR OF TRANSVERSELY LOCATED CIRCULAR CYLINDER SHELL
DFL-231 N64-21707 15-33

FORTRAN II COMPUTER PROGRAM FOR EVALUATION OF DONNELL TYPE DIFFERENTIAL EQUATION FOR ORTHOTROPIC CIRCULAR-CONICAL SHELL N64-24842 17-33

DONNELL EQUATION FOR BUCKLING OF THIN WALLED CIRCULAR CYLINDRICAL SHELLS SUBJECTED TO UNIFORM AXIAL COMPRESSION
AFOSR-64-1037 N64-26187 18-33

DONOR
INTERACTION OF ELECTRON DONORS AND ACCEPTORS
N64-30313 22-07

DOPING
MASS SPECTROMETER MONITORING SYSTEM FOR DOPANTS IN GAS STREAM DURING EPITAXIAL DEPOSITION OF SILICON
AFCRL-64-178 N64-20163 13-06

RARE EARTH DOPED SILICON
AFCRL-64-406 N64-24917 17-25

IMPURITY DOPING OF FLASH EVAPORATED EPITAXIAL FILMS OF SEMICONDUCTORS
A049-AFCRL N64-26225 18-25

FABRICATION OF CONTROLLED-JUNCTION SOLAR CELLS BY IMPLANTATION OF DOPING IONS INTO BULK SILICON BY VAN DE GRAAFF ACCELERATOR N64-29164 21-06

CHROMIUM DOPED RUTILE TRAVELING WAVE MASER
NASA-TN-D-2490 N64-29453 21-25

ION BOMBARDMENT AND SIMULTANEOUS DOPING OF SILICON BY DC GLOW DISCHARGE
ARDD-3330-4 N64-30006 21-25

ULTRAHIGH FREQUENCY SILICON POWER TRANSISTORS - DIFFUSION EFFECTS, ION BOMBARDMENT DOPING, AND EPITAXIAL DEPOSITION
AL-TDR-64-207 N64-30982 22-09

PHOSPHORUS DOPING OF CADMIUM TELLURIDE SINGLE CRYSTALS FOR P TYPE AND JUNCTION DIFFUSION WITH ZINC FOR N TYPE SEMICONDUCTORS N64-31644 23-25

DOPING OF INDIUM ANTIMONIDE & GERMANIUM DETECTORS
NRL-MEMO-1550 N64-33730 24-25

DOPPLER EFFECT
USE OF OPTICAL DOPPLER SHIFTS IN RADIATION FROM NATURAL SOURCES TO DETERMINE SPACE VEHICLE VELOCITY - SPACE NAVIGATION
F-A2415 N64-12042 03-15

RADIO INVESTIGATION OF IONOSPHERIC STRUCTURE BY MEANS OF DOPPLER SHIFT, AND APPARATUS FOR RECEIVING & RECORDING DOPPLER SHIFT DATA
JPRS-19069 N64-12501 04-08

IONOSPHERIC STRUCTURE INVESTIGATION BY ANALYSIS OF DOPPLER SHIFT IN FREQUENCY OF RADIO TRANSMISSION FROM COSMOS I & II SATELLITES N64-12502 04-12

COHERENT RADIO RECEIVER FOR RECORDING DIFFERENCE IN DOPPLER SHIFT OF RADIO-WAVE FREQUENCY OF SATELLITE TRANSMISSIONS N64-12503 04-08

INFLUENCE OF NONUNIFORM TEMPERATURE DISTRIBUTION IN DOPPLER EFFECT CALCULATIONS
EUR-401.E N64-14163 04-23

DOPPLER EQUATIONS FOR CALCULATING FREQUENCY OF WAVE SCATTERED BY BODY MOVING IN HOMOGENEOUS AND INHOMOGENEOUS MEDIA
AFOSR-5367 N64-14349 06-24

ERROR ANALYSIS FOR DOPPLER DETERMINED SATELLITE ORBITS AROUND OTHER PLANETS N64-14438 06-29

DOPPLER EFFECT IN RADAR DETECTION OF SINGLE TARGETS FOR PULSE AND CONTINUOUS WAVE RADARS
N64-15138 07-08

CHANGES IN HEIGHT AND SHAPE OF F-2 LAYER IN IONOSPHERE OBSERVED WITH DOPPLER TECHNIQUE
N64-15436 07-12

DOPPLER EFFECT DURING RECEIVER MOVEMENT THROUGH HETEROGENEOUS MEDIUM

FTD-TT-63-673/1&2 N64-16385 08-23

DETERMINATION OF SPEED AND SEPARATION DURING DOCKING OF SPACE VEHICLES - METHODS USING DOPPLER EFFECT, MOSSBAUER EFFECT, & ATOMIC RESONANCE
R63SD314 N64-16913 09-22

DOPPLER DISTORTION OF TOTAL, FISSION, CAPTURE, AND SCATTERING NEUTRON CROSS SECTIONS OF PLUTONIUM 241
IDO-16954 N64-16941 09-23

IONOSPHERE EFFECTS ON POLARIZATION AND DOPPLER SHIFT OF RADIO TRANSMISSIONS FROM SATELLITES FOR ELECTRON CONTENT MEASUREMENTS N64-18160 10-12

NAVIGATION EQUATIONS FOR DETERMINATION OF RADIO DOPPLER SIGNALS FROM EARTH SATELLITES
TM-3241-69-141 N64-18389 10-22

DOPPLER RECEIVER TO IMPROVE MISSILE TRAJECTORY MEASUREMENTS
WRE-TN-EID-67 N64-19485 12-08

RADIO TRACKING OF ORBITING SATELLITE USING DOPPLER AND RADIO INTERFEROMETER EQUIPMENT
N64-21737 15-08

CRYSTALLINE BINDING EFFECTS ON DOPPLER BROADENING NEUTRON RESONANCE IN TUNGSTEN
BNL-860/T-344/ N64-22225 15-25

MICHELSON INTERFEROMETER FOR HEIGHT AND DOPPLER PROFILE STUDIES
AFCRL-63-688 N64-24199 16-15

IONOSPHERIC CONTRIBUTIONS TO DOPPLER SHIFT AT VERY HIGH FREQUENCY FROM NEAR-EARTH SATELLITE
CR-1040 N64-25891 18-08

REFRACTION AND DOPPLER SHIFT OF RADIO WAVES RADIATED BY ARTIFICIAL EARTH SATELLITES IN THREE-DIMENSIONAL HETEROGENEOUS IONOSPHERE
FTD-TT-64-384/1&2&4 N64-26122 18-08

TOTAL ELECTRON CONTENT OF IONOSPHERE DERIVED FROM SATELLITE DOPPLER MEASUREMENTS
NASA-CR-56935 N64-27881 20-12

AUTOMATIC DOPPLER CONTROL FOR ANTENNA POINTING SYSTEM
GR-1964-35 N64-29731 21-08

HIGH FREQUENCY DIGITAL COMMUNICATION SYSTEM OPERATING UNDER MULTIPATH PROPAGATION AND DOPPLER SHIFT
NGR-3F N64-30736 22-08

DOPPLER EFFECT MEASUREMENTS, FAST POWER BREEDER REACTOR, AND SODIUM VOID COEFFICIENTS
ANL-6838 N64-32300 23-23

DIURNAL VARIATION OF IONOSPHERIC ELECTRON CONTENT FROM DOPPLER SLOPES OF SIMULTANEOUS SATELLITE SIGNALS
NRI-106.04 N64-32443 23-12

FREQUENCY DISTRIBUTION OF OPTICAL SIGNAL BY ATMOSPHERIC OPTICAL DOPPLER
TR-135 N64-32766 24-08

DETERMINATION OF PHYSICAL PROPERTIES OF MARS ATMOSPHERE FROM CHANGES IN DOPPLER SIGNAL OF SPACECRAFT ON EARTH OCCULTATION TRAJECTORY
NASA-CR-59161 N64-33000 24-29

DOPPLER RADAR
DOPPLER RADIO TRACKING SYSTEM AND TRAJECTORY CALCULATIONS FOR SMALL ROCKETS OF NIKE-CAJUN SIZE
FBIT-E-14 N64-12252 03-08

NEW ANTENNA TECHNIQUES FOR AEROSPACE VEHICLE DOPPLER VELOCITY SENSORS
P63-74 N64-13128 04-09

ACTIVE DOPPLER VELOCITY SENSOR FOR RADAR NAVIGATION TECHNIQUE
BR-2604 N64-14509 06-08

LASER TECHNIQUES FOR DOPPLER OPTICAL NAVIGATION - SUBCARRIER FREQUENCY, ELECTRO-OPTICAL MODULATION, AND NOISE ELIMINATION
QPR-2 N64-14667 06-25

GROUND VELOCITY AND DRIFT ANGLE MEASUREMENTS BY AIRBORNE DOPPLER RADAR N64-15146 07-08

CONTINUOUS WAVE DOPPLER RADAR STATIONS FOR DETECTION OF AUTO ACCELERATIONS
N64-15149 07-08

SOLID-STATE DOPPLER RADAR FOR SPACE RENDEZVOUS AND PLANETARY LANDINGS N64-16188 08-08

PULSE DOPPLER RADAR STUDY OF STORMS & TORNADOES
CAL-VC-1663-E-1 N64-16896 09-21

DOPPLER TRACKING RESULTS USING CONTINUOUS WAVE BEACON TRANSMITTER
NASA-TN-D-2188 N64-16930 09-08

DETERMINATION OF TRACKING STATION LOCATIONS BY DOPPLER AND RANGE MEASUREMENTS TO EARTH SATELLITE
NASA-CR-53196 N64-17226 09-29

SHORT ARC CALIBRATION OF DOPPLER RADAR SATELLITE OBSERVATIONS TO OBTAIN GROUND STATION GEODETIC COORDINATES
NWL-1908 N64-18889 11-12

EFFECTS OF TERRAIN AND WEATHER CONDITIONS ON AIRBORNE DOPPLER RADAR NAVIGATION SYSTEM
RD-64-15 N64-23238 16-22

PERFORMANCE PREDICTION AND ERROR ANALYSIS OF DOPPLER TRACKING SYSTEM
SSD-TDR-63-339 N64-24186 16-08

QUASI-DOPPLER TECHNIQUE FOR ACCURATE MEASUREMENTS OF RADAR CROSS SECTIONS IN ULTRAHIGH FREQUENCY BAND N64-24299 17-08

NAVIGATIONAL ACCURACY OF CIVIL JET AIRCRAFT FOR DOPPLER EQUIPMENT EVALUATION AND HORIZONTAL SEPARATION STANDARDS
RD-64-52, I N64-25096 17-22

EFFECT OF HIGH TEMPERATURE AND VEHICLE MANEUVERS ON DOPPLER ANTENNAS FOR LIFTING REENTRY VEHICLE
P-64-15 N64-26902 18-08

LASER TECHNIQUES FOR DOPPLER OPTICAL NAVIGATION IN SPACE VEHICLE GUIDANCE
QPR-1 N64-29051 21-08

COHERENT DETECTION OF RADAR ECHOES OF UNKNOWN DOPPLER SHIFT
RM-4227-PR N64-30120 21-08

MEASURING DISPERSIVE DOPPLER FREQUENCY WITH S-66 IONOSPHERIC BEACON SATELLITE
BRL-MR-1579 N64-33359 24-08

MISSILE TRACKING BY CONTINUOUS WAVE REFLECTION - DOPPLER AND INTERFEROMETER SYSTEMS
USA-ERDA-116 N64-33466 24-08

DORNIER DO-27 AIRCRAFT
STRUCTURAL VIBRATION MEASUREMENTS ON DORNIER DO-27 AIRCRAFT
DFL-230 N64-21521 15-33

FLIGHT TEST OF DO 27 AIRCRAFT STRUCTURAL WING - LEADING EDGE LIFT FORCES
AVA-63-02 N64-27140 19-04

DORNIER PARAGLIDER ROCKET
S IONOSPHERIC SOUNDING
S PARAGLIDER
S SOUNDING ROCKET

DOSAGE
SA RADIATION DOSE
CF DRUG
NEUTRON DOSE RATE COMPARISON
LAMS-2977 N64-18002 10-23

EFFECTS OF MOLECULAR WEIGHT AND DOSAGE ON COAGULATION INHIBITION BY HIGH-WEIGHT POLYMERS IN

RABBITS N64-31343 23-16

DOSIMETER
RADIATION HAZARD IN X-RAY CLINICS, CAPACITOR DOSIMETER FOR X-RAY AND GAMMA RADIATION, AND ELECTROKYMOGRAPHS
JPRS-17533 N64-10561 01-16

FERROUS-FERRIC DOSIMETER - CHARACTERISTICS, PREPARATION, AND USE
AFCRL-63-587 N64-16796 08-15

PHOTOMULTIPLIER IMPROVEMENT - LITHIUM FLUORIDE THERMOLUMINESCENT DOSIMETER FOR DETECTION OF AURORAL ELECTRONS
AFCRL-64-166 N64-20148 13-15

THERMOLUMINESCENT DOSIMETER COMPUTER-INDICATOR SYSTEM
S-248-R N64-27915 20-15

IONIZING RADIATION DOSIMETRY BASED ON MEASUREMENT OF THERMOLUMINESCENCE OF ALUMINA-PHOSPHATE GLASSES
NRL-TRANS-972 N64-30180 21-15

SILVER-ACTIVATED PHOSPHATE-GLASS DOSIMETER TO MEASURE WIDE RANGE OF GAMMA RADIATION DOSAGE
NDL-SP-6 N64-30193 21-15

CALIBRATION OF PHOTOGRAPHIC FILM DOSIMETERS FOR HIGH ENERGY GAMMA RADIATION
AERE-R-4168 N64-30874 22-15

GLASS MICRODOSIMETER ROD MEASUREMENT OF RADIATION DOSE WITHIN TISSUE
UR-651 N64-31059 22-16

OXALIC ACID DOSIMETER FOR MEASURING MEGARAD DOSES OF GAMMA RADIATION
USNRDL-ER-14 N64-31283 22-17

DOSIMETRY
IONIZATION CHAMBER FOR PRECISE DOSIMETRY OF ENVIRONMENTAL GAMMA AND COSMIC RADIATION
HASL-108 N64-10409 01-10

COSMIC RADIATION HAZARD FOR MANNED SPACE FLIGHT - PHARMACOLOGICAL PROTECTION, PHYSICAL & BIOLOGICAL DOSIMETRY N64-10514 01-16

DOSIMETRIC METHODS IN MICROWAVE AND DECIMETER-WAVE THERAPY - HOUSINGS FOR ELECTRONIC EQUIPMENT
JPRS-23167 N64-14920 06-10

RADIATION DOSE DISTRIBUTION IN MODEL ASTRONAUT
AMRL-TDR-64-9 N64-18629 11-16

RADIOACTIVE ISOTOPE SHIELDING DESIGN MANUAL - DOSE RATE AND SHIELDING CURVES
NYO-10721 N64-20519 13-27

DOSIMETRY, RADIATION DISTRIBUTION, RADIATION PROTECTION, RADIOBIOLOGY, AND BIOPHYSICS
NYO-2740-1 N64-21035 14-23

ANALYSIS TECHNIQUES FOR NEUTRON FOIL AND GAMMA DOSIMETRY
AFSWC-TDR-62-107 N64-21523 15-16

RATE AND ENERGY RESPONSE OF RADIATION DOSIMETRY SYSTEMS TO GAMMA RAYS, ELECTRONS, AND FAST AND THERMAL NEUTRONS
S-237-R N64-22507 15-15

PROBLEMS OF RADIATION DOSIMETRY IN X-RAY DIAGNOSIS AND TREATMENT N64-22732 16-16

HIGH-LEVEL GAMMA-RAY DOSIMETRY
BM-RI-6485 N64-23259 16-23

DOSIMETRY FOR RADIATION DAMAGE STUDIES
ANL-6826 N64-25205 17-16

DOSIMETRIC STUDY OF THERMAL LUMINESCENCE OF LITHIUM FLUORIDE DOPED WITH EUROPIUM AND MAGNESIUM
UCRL-7811 N64-25362 17-23

FAST NEUTRON SPECTRUM AND DOSIMETRY OF REACTOR MEDICAL THERAPY FACILITY BEAM
MITNE-47 N64-25472 17-16

RADIATION DOSIMETRY ABOARD MERCURY /MA-8/ SPACECRAFT
NASA-TN-D-1862 N64-28320 20-16

CALCULATION OF ELECTRON-PRODUCED BREMSSTRAHLUNG RADIATION DOSE THROUGH SEVERAL SLABS OF SHIELD MATERIAL USING IBM 7090 FORTRAN COMPUTER PROGRAM
NASA-CR-58275 N64-29366 21-23

COMPUTER PROGRAM FOR RADIATION DOSE FROM ELECTRONS PENETRATING THROUGH RADIATION SHIELDING OF SPACECRAFT
NASA-CR-58297 N64-29368 21-23

COMPUTER PROGRAM TO CALCULATE PROTON RADIATION DOSE THROUGH SHIELDING IN SPACECRAFT
NASA-CR-58298 N64-29369 21-23

CHEMICAL MEASUREMENT OF IONIZING RADIATION - CHEMICAL DOSIMETRY
JPRS-26363 N64-29541 21-07

DOSIMETRIC DATA EVALUATION ON SOLID ANGLE BREAKDOWN OF SHIELD THICKNESS FOR APOLLO VEHICLE - RADIATION HAZARD IN SPACE FLIGHT
NASA-CR-59266 N64-33284 24-16

RADIATION HAZARDS CONTROL - SHIELDING, NEUTRON AND GAMMA RADIATION SURVEY INSTRUMENTS, AND DOSIMETRY METHODS
UCRL-12004 N64-33852 24-10

DOUBLE BASE PROPELLANT
CF SOLID PROPELLANT
FAILURE CRITERIA FOR CAST DOUBLE BASE PROPELLANT
TR-64/17 N64-28064 20-26

DOUGLAS DC-8 AIRCRAFT
MOVEMENT AND STRENGTH TESTS OF WING TRAILING VORTICES OF DOUGLAS DC-8 JET TRANSPORT AIRCRAFT DURING TAKEOFF AND LANDING
RD-64-3 N64-14797 06-04

DOWNRANGE ANTIMISSILE MEASUREMENT PROGRAM /DAMP/
ERROR STUDY OF SHIPBOARD RADAR TRACKING SYSTEM - DOWNRANGE ANTIMISSILE MEASUREMENTS
DAMP-TM-62-19 N64-31259 22-08

DOWNRANGE MEASUREMENT
CORRELATION OF DOWNRANGE RADAR MEASUREMENTS WITH STATIC RADAR CROSS SECTION MEASUREMENTS
N64-24727 17-08

DOWNWASH
S GROUND EFFECT
S LIFT AUGMENTATION
S WAKE

DRAG
SA LIFT-DRAG RATIO
CF BOUNDARY LAYER
CF LIFT
CF WAKE
ATMOSPHERIC HEATING IN AURORAL ZONES - ANALYSIS OF ATMOSPHERIC DRAG OF INJUN III SATELLITE
NASA-CR-52456 N64-10136 01-02

ATMOSPHERIC HEATING IN AURORAL ZONES - ANALYSIS OF ATMOSPHERIC DRAG OF INJUN III SATELLITE
NASA-CR-52456 N64-10136 01-02

BOUNDARY LAYER DRAG OF BODIES WITH SWEPT TRAILING EDGES IN SUPERSONIC FLOW
ARC-CP-699 N64-10241 01-11

BOOST AND SUSTAINER ROCKET NOZZLES TO DETERMINE EFFECTS OF BASE BLEED, SUSTAINER NOZZLE DIAMETER, AND LONGITUDINAL POSITION ON BASE DRAG OF BODY
RF-TR-63-23 N64-12707 04-02

FOURIER ANALYSIS AND NUMERICAL INTEGRATION OF DRAG INTEGRAL
ARC-R&M-3341 N64-13360 04-03

LIFT AND DRAG FORCES ON SUPERVENTILATED HYDROFOILS OF FINITE SPAN BELOW FREE SURFACE

PR-66 N64-14767 06-03

AERODYNAMIC FACTORS AFFECTING DESIGN OF ORBITING REENTRY VEHICLES - HEAT SHIELD, DRAG, AND LIFT
ER-673, VOL. 1 N64-15193 07-30

TUNNEL WALL INTERFERENCE EFFECTS ON DRAG AND PITCHING MOMENT OF AXISYMMETRIC BODY
TM-501.8871-02 N64-15582 07-10

AERODYNAMIC DESIGN OF WINGS WITH CAMBERED SPAN HAVING MINIMUM INDUCED DRAG
NASA-TR-R-152 N64-15974 07-03

DRAG AND STABILITY INVESTIGATIONS OF MARINER-B SHAPE A-1 AND JPL CONFIGURATION V-1 AT VELOCITIES FROM 13,000 TO 18,000 FPS IN VARYING ATMOSPHERES
NASA-CR-55543 N64-16321 08-29

CYLINDER DRAG FORCES IN HYPERSONIC FREE JET OF RAREFIED AIRSTREAM
AS-64-3 N64-17280 09-02

SEMICONDUCTOR DEVICE - PHONON DRAG STUDY OF SCATTERING IN SILICON
AD-432700 N64-17661 09-25

EFFECTS OF SPANWISE VARIATION OF LEADING EDGE SWEEP ON LIFT, DRAG, & PITCHING MOMENT OF WING-BODY COMBINATION AT TRANSONIC SPEEDS
NASA-TN-D-2236 N64-17991 10-02

COMPUTER SIMULATION OF ATMOSPHERIC DRAG FOR TESTING TRAJECTORY OF ARTIFICIAL SATELLITE OR SPACE PROBE N64-18232 10-29

WIND-TUNNEL STUDY ON DRAG OF PARALLEL CIRCULAR CYLINDERS IN SUPERSONIC FLOW N64-18482 10-02

AERODYNAMIC DRAG OF BLUNT CONES IN HYPERSONIC RAREFIED FLOW OF NITROGEN AND ARGON
AEDC-TDR-64-60 N64-19067 11-02

DEVELOPMENT OF NEW RELAYS - CONTAMINATION AND RELIABILITY PROBLEMS N64-19536 12-09

FLUID DYNAMIC FORCES OF LIFT & DRAG ON SPHERES SUSPENDED IN POISEUILLE FLOW - SQUID PROJECT
PR-106-P N64-19636 12-11

AERODYNAMIC DRAG AND GUST LOADING OF SAILPLANES DURING TOWING
DVL-267 N64-19787 12-04

RHEOELECTRIC SIMULATION METHOD FOR MEASURING EFFECTS OF GROUND PROXIMITY ON WINGS
DTMB-AERO-1068 N64-20420 13-03

BASE DRAG CHARACTERISTICS OF OGIVE-CYLINDER MISSILE MODEL WITH BASE NOZZLE FLOW
AEDC-TDR-64-87 N64-20838 14-02

MINIMUM DRAG ATMOSPHERIC REENTRY TRAJECTORY FOR SPACE VEHICLE WITH OFFSET CENTER OF GRAVITY N64-20952 14-22

PLANFORM MODIFICATION EFFECTS ON SKIN FRICTION DRAG OF AIRCRAFT WING AND CONTROL SURFACES
NASA-RP-170 N64-21274 14-03

LIFT AND DRAG MEASUREMENTS ON SUPERCAVITATING HYDROFOIL
TR-343-1 N64-21357 14-03

VALVE DESIGN, BEARING DRAG, SEAL, AND THRUST STUDIES FOR HIGH CHAMBER PRESSURE ENGINES
NASA-CR-56306 N64-23943 16-27

FREE FLIGHT MEASUREMENTS OF ZERO LIFT DRAG OF SLENDER OGEE WING AT TRANSONIC & SUPERSONIC SPEEDS
ARC-RP-670 N64-24924 17-03

DRAG-AT-ZERO-LIFT OF PLANE AND HEMISPHERICAL NOSED CYLINDERS AT VARIOUS MACH NUMBERS
ARC-RP-709 N64-25176 17-02

LOW THRUST PROPULSION OSCILLATORY ASCENDING SPIRAL TRAJECTORIES AND EFFECT OF ATMOSPHERIC DRAG
ADN-06-06-63.3 N64-25917 18-29

ACCURACY OF DRAG AND STABILITY MEASUREMENTS IN BALLISTICS RANGE
CARDE-TR-485/63 N64-26099 18-04

WING PROFILE, PAYLOAD, AND DRAG MINIMIZATION OF GLIDER
FTD-TT-64-341/1&2 N64-27827 19-04

EFFECT OF COMPRESSIBILITY, ROTATION, AND MAGNETIC FIELD ON DRAG ON SPHERE OSCILLATING IN CONDUCTING VISCOUS MEDIUM
NASA-TM-X-55051 N64-28084 20-11

AERODYNAMIC DRAG ON SPIKED BLUNT BODIES IN LOW DENSITY HYPERSONIC FLOW
AEDC-TDR-64-160 N64-28605 20-02

MINIMUM DRAG SHAPES FOR BODIES WITH CROSS SECTIONAL ELLIPTICITY AT HYPERSONIC SPEEDS AND ZERO ANGLE OF ATTACK
NASA-TN-D-2432 N64-28722 20-02

ELECTRICAL AND CHEMICAL THRUST DEVICES FOR APPLICATION TO ATMOSPHERIC DRAG CANCELLATION ON SPACE STATION CONFIGURATION
NASA-TN-D-1835 N64-30093 21-27

WALL EFFECTS ON DRAG OF BODY MOVING IN TUBE FOR VARIOUS BODY SHAPES, REYNOLDS NUMBERS, BODY-TO-DUCT RATIOS, AND TUBE-END CONDITIONS N64-30406 22-02

FLOW CHARACTERISTICS AND DRAG DUE TO SUPERSONIC JETS DISCHARGING UPSTREAM INTO SUPERSONIC FLOW
AD-603354 N64-30661 22-11

EFFECT OF JET ENTRAINMENT ON DRAG OF JET FLAP
REPT.-64-13 N64-31243 22-03

DRAG COEFFICIENT
ORBITAL LIFETIME PREDICTION - ATMOSPHERIC VARIATIONS, VEHICLE DRAG COEFFICIENT, PROPELLANT BOILOFF, & VEHICLE ATTITUDE STABILIZATION
NASA-TN-D-1995 N64-12714 04-29

DRAG COEFFICIENT DETERMINATION FOR TWO-DIMENSIONAL STRIP NORMAL TO HYPERSONIC NEARLY FREE-MOLECULE FLOW
AS-64-4 N64-16969 09-23

LOW SPEED, FREE FLIGHT STABILITY AND DRAG CHARACTERISTICS OF RADIALLY VENTED PARACHUTES
NASA-TN-D-2271 N64-17729 09-04

PERFORMANCE OF NIKE-CAJUN SOUNDING ROCKET FOR THREE CASES OF DRAG COEFFICIENT INPUTS
NASA-TM-X-51614 N64-19450 12-32

DRAG DEVICE
SA BALLUTE
VARIABLE-DRAG DEVICE ON VARIABLE STABILITY T-33 AIRCRAFT - DEVELOPMENT AND FLIGHT CALIBRATION
CAL-TE-1462-F-3 N64-13627 05-04

EXPANDABLE DRAG DEVICES FOR MACH 10 REGIME N64-23724 16-30

DRAG EFFECT
EXOSPHERIC DRAG OF MARS AS CAUSE OF ORBITAL ACCELERATIONS OF SATELLITE
RM-3939-PR N64-14012 05-29

MAGNITUDE OF ELECTRIC DRAG ON SATELLITES
NASA-RP-280 N64-28301 20-02

DRAG MEASUREMENT
ZERO LIFT DRAG MEASUREMENTS OF WINGS PROPOSED FOR TRANSONIC FIGHTER AIRCRAFT - GLOSTER JAVELIN
ARC-CP-678 N64-16530 08-04

PRESSURE PROBES, DRAG MEASUREMENT DEVICES, AND DUST COLLECTORS TO MEASURE DYNAMIC AND SURFACE PRESSURE ON CYLINDRICAL BODIES
DASA-1433 N64-10846 11-15

WIND MEASUREMENTS OF BLAST FORCES ON BODY DURING PRESSURE LOSS - EFFECT OF CLOTHING ON DRAG FORCES AND BODY MEASUREMENTS DURING WIND TUNNEL TESTS
AD-602207 N64-32066 23-14

EXPERIMENTAL AND THEORETICAL EXTENSIONS OF NEAR FREE MOLECULAR FLOW - DRAG FORCE MEASUREMENT PROGRAM
AS-64-11 N64-32219 23-11

DRAG REDUCTION
ORBITAL ELEMENT THEORIES FOR DRAG-FREE EARTH SATELLITES
RAE-TN-SPACE-42 N64-10403 01-29

WIND TUNNEL STUDY OF BOUNDARY LAYER CONTROL BY BLOWING ON AIRFOIL TO REDUCE DRAG
NASA-TN-D-2374 N64-25714 17-02

DRAG REDUCTION ON BODIES MOVING THROUGH WATER BY USE OF SOLUBLE POLYMER ADDITIVES
N64-28804 20-11

DRIFT
SA YAW
DATA ON IONOSPHERIC DRIFTS AT YAMAGAWA, JAPAN FOR 1959
N64-12345 03-12

GROUND VELOCITY AND DRIFT ANGLE MEASUREMENTS BY AIRBORNE DOPPLER RADAR
N64-15146 07-08

LOSS COEFFICIENT AND DRIFT VELOCITY STUDIES OF IONOSPHERIC F-REGION USING ELECTRON DENSITY
RPU-614 N64-16933 09-12

RECALIBRATION OF RANDOM GYRO DRIFT RATES AND INACCURACY OF INERTIAL NAVIGATION SYSTEMS
PUBL. 552-A-27 N64-18157 10-22

CORRELATION OF BURST NOISE AND PARAMETER DRIFT IN SEMICONDUCTORS FOR FAILURE PREDICTION
N64-20983 14-09

ION AND ELECTRON DRIFT VELOCITIES IN CESIUM
ARCD-3588-2 N64-23135 16-09

ROTATING BEARINGS TO REDUCE GYROSCOPE DRIFT CAUSED BY GIMBAL BEARING FRICTION
FTD-TT-62-1900/1&2&4 N64-23410 16-15

MOTION OF CHARGED PARTICLE THROUGH STATIONARY MAGNETIC FIELD IN APPROXIMATION OF AVERAGE DRIFT
N64-23858 16-27

TRIAXIALITY OF EARTH FROM OBSERVATIONS ON DRIFT OF SYNCOM II SATELLITE - LONGITUDINAL DEPENDENCE OF EARTH GRAVITATIONAL FIELD
NASA-TM-X-55003 N64-23935 16-08

PATH ANGLES, ANGLES OF ATTACK, AND DRIFT FOR LARGE PARTICLE MOTIONS IN MOVING FLUID
DTMB-1813 N64-24190 16-02

EFFECT OF ROTOR AXIS & HOUSING RIGIDITY ON GYROSCOPE MOTION
N64-24519 17-15

FREE GYROSCOPIC DRIFT IN CARDAN SUSPENSION DURING NUTATIONAL OSCILLATIONS
FTD-TT-64-416/1&2&4 N64-26737 18-23

VARIABLE-DRIFT BIASED-GAP KLYSTRON AS HIGH EFFICIENCY AMPLIFIER
ESD-TDR-64-44 N64-27376 19-09

CROSSED ELECTRIC AND MAGNETIC FIELDS USED TO FOCUS BEAM OF CHARGED PARTICLES AND CONTROL DRIFT VELOCITY
R-214 N64-28503 20-08

DRIFT FIELD SOLAR CELLS FOR IMPROVED RADIATION RESISTANCE
N64-29163 21-06

IONOSPHERIC DRIFT FROM MOTION OF FIREFLY PROJECT ARTIFICIAL CLOUDS
N64-31384 23-12

COMPUTER ANALYSIS OF IONOSPHERIC WIND DATA - DRIFT DIRECTION AND VELOCITY IN E LAYER REFLECTIONS OVER PUERTO RICO
AFCRL-64-603 N64-31992 23-12

DRIFT EFFECTS ON PARAMETERS OF UPPER F LAYER UNDER DAYTIME EQUILIBRIUM CONDITIONS
NASA-CR-58941 N64-33093 24-12

DRIVE
SA GEAR
AUTOMATIC DRIVING SYSTEM FOR CRAWLER-MOUNTED PLOWING UNIT BY SIMULATION
JPRS-17525 N64-10628 01-20

PERFORMANCE DECREMENT IN VEHICLE DRIVING SKILL
REPT.-597 N64-16089 07-14

IMPROVEMENT OF STABILITY OF ALTERNATING CURRENT THROTTLE DRIVES WITH CURRENT & VOLTAGE REGULATORS
N64-23085 16-04

AUTOMATICALLY CONTROLLED THROTTLE DRIVE
N64-23086 16-09

DRIVE UNIT OF CONTINUOUS SUPERSONIC WIND TUNNEL
ONERA-TP-122 N64-25556 17-11

FEASIBILITY OF HARMONIC DRIVE SPEED REDUCTION GEARS FOR USE IN GAS-TURBINE POWERED HELICOPTER
TRECOM-TR-64-12 N64-27856 19-17

MAGNETIC TAPE-DRIVE UNIT FOR DIGITAL COMPUTER
JPRS-26496 N64-29756 21-09

EDDY CURRENT CLUTCH DRIVES FOR TRACKING ANTENNA SYSTEM
NASA-TM-X-55084 N64-33620 24-08

DRONE
CF AIRCRAFT
CF FLIGHT VEHICLE
CF HELICOPTER
CF TEST VEHICLE
TRANSONIC WIND-TUNNEL STUDY OF LAUNCH TRAJECTORIES OF BEECH XKD2B-1 TARGET DRONE AFTER LAUNCH FROM F3H-2 AIRPLANE
DTMB-AERO-993 N64-16469 08-04

DROP
CF SPRAY
DROP TRANSFER OF ELECTRODE METAL DURING ELECTROSLAG WELDING
N64-21864 15-17

TECHNIQUE FOR DESCRIBING DROPLET-SIZE DISTRIBUTION PRODUCED BY PNEUMATIC ATOMIZATION
REPT.-0395-04/15/SP N64-21904 15-23

SPIN-DROP METHOD OF MEASUREMENT OF RADAR CROSS SECTION OF MODEL IN ANECHOIC CHAMBER
N64-24312 17-08

RAINDROP SIZE DISTRIBUTION IN HEAVY SHOWERS - QUALITATIVE ANALYSIS OF CLOUD-DROPLET ACCRETION, RAINDROP COALESCENCE, & EVAPORATION PROCESS EFFECT
AFCRL-63-906 N64-27217 19-21

OPTIMUM LOAD DROPPING - AUTOMATIC STOPPING AND REVERSAL IN HIGH SPEED HEAVILY LOADED MACHINES
FTD-TT-64-222/1&2 N64-31885 23-17

DROP TEST
DROP TESTING OF LIGHTWEIGHT ALUMINUM HONEYCOMB CASE
PR-4 N64-30050 21-14

DRUG
SA ANTIHISTIMIC
SA DOSAGE
CF PHARMACOLOGY
EFFECTS OF IRRADIATION AND ANTIRADIATION DRUGS ON METABOLISM
JPRS-21472 N64-10596 01-14

PSYCHOPHARMACOLOGICAL COMPOUNDS - CLASSIFICATION, SYNONYMS, OFFICIAL NAMES, CHEMICAL STRUCTURE, USE, DOSAGE, AND NOTES ON EFFECT
JPRS-22042 N64-11269 02-14

ANTIHYPERTENSIVE DRUG SYNTHESIS
JPRS-22524 N64-12146 03-14

RELATIVISTIC EFFECT, USE, AND RESPIRATORY PHYSIOLOGY OF MUSCLE RELAXANTS
JPRS-22995 N64-14074 05-14

ANTIEMETICS, TRANQUILIZERS, SEDATIVES, AND ANALEPTICS INFLUENCE ON PILOT PERFORMANCE

N64-15041 07-16

DRUGS FOR DISEASES OF CENTRAL NERVOUS SYSTEM
JPRS-23254 N64-15382 07-16

DERIVATIVES OF DIPHENYLMETHANE, PROPANOL, UNSATURATED TERTIARY ALCOHOLS, DIPHENAZIN, AND MOSTYN FOR TREATMENT OF CENTRAL NERVOUS SYSTEM
N64-15383 07-16

TOPOLOGICAL PROPERTIES OF COMPARTMENT SYSTEMS USED FOR TRACER AND DRUG KINETICS N64-18498 10-20

ELECTRONARCOSIS OF LOWER VERTEBRATES AND COMBINATION WITH DRUG NARCOSIS IN MAMMALS
FTD-TT-63-931/1&2 N64-24064 16-14

TOXICOLOGY - ACTION OF DRUGS ON ANIMALS
N64-24612 17-16

PHARMACOLOGY & TOXICOLOGY OF DRUGS IN CLOSED ECOLOGICAL SYSTEMS N64-24617 17-16

DRUG EFFECT ON RAT LEVER-PRESSING RESPONSE
NASA-RP-262 N64-25975 18-16

EFFECTS OF TRANQUILIZING, ANALEPTIC, AND VASODILATING DRUGS ON PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE
CARI-63-34 N64-26845 18-16

ANIMAL STUDIES ON EFFECTS OF ANTISEROTONIN DRUGS
AD-447846 N64-33662 24-16

DRUG DEVELOPMENT AND PSYCHOPHYSIOLOGIC ASPECTS OF VISUAL PERCEPTION
AD-447092 N64-33690 24-14

DRY CELL BATTERY
CF STORAGE BATTERY
OPTIMUM CARBON BLACK FOR DEPOLARIZER BATTERIES
AD-430442 N64-15940 07-06

ADVANTAGES THROUGH USE OF RESERVE-TYPE MAGNESIUM PERCHLORATE BATTERIES N64-17420 09-06

IMPEDANCE OF COMMERCIAL LECLANCHE DRY CELLS AND BATTERIES
NBS-TN-190 N64-20515 13-06

DRY TAPE BATTERY USING SILVER OXIDE-ZINC COUPLE
NASA-CR-56132 N64-20703 13-06

DRY HEAT
DRY HEAT STERILIZATION OF SPACE PROBES - BIOLOGICAL, CHEMICAL, AND PHYSICAL FACTORS INFLUENCING EFFECTIVENESS
NASA-CR-58285 N64-28764 20-16

DUAL CONTROL PROBLEM
S LINEAR PROGRAMMING
S NONLINEAR PROGRAMMING

DUCT
SA INLET
CF ORIFICE
SOUND PROPAGATION IN SOUND ABSORBENT DUCTS WITH SUPERIMPOSED AIRSTREAMS
AMRL-TDR-62-140/IV/ N64-17326 09-23

WALL ROUGHNESS EFFECTS ON INVISCID NONEQUILIBRIUM SUBSONIC AND SUPERSONIC FLOWS IN DUCTS
TDR-269/4230-20/-6 N64-20322 13-11

TERMINAL SITES FOR TRANSOCEANIC DUCT PROPAGATION MEASUREMENTS
AFCRL-63-862, PT. II N64-21908 15-08

RADIO PROPAGATION IN TRADE WIND INVERSION DUCT-NEPTUNE PROJECT
CRL-272-2 N64-21988 15-08

MAGNETOPLASMADYNAMIC GENERATOR TEST LOOP AND ALUMINUM OXIDE DUCT N64-30436 22-10

DUCTED BODY
AERODYNAMIC LOADING ON STREAMLINED DUCTED BODIES
TAR-TR-625 N64-25080 17-02

STATIC AERODYNAMIC CHARACTERISTICS, STABILITY DERIVATIVES, & INTERFERENCE FOR DUCTED PROPELLERS
VIDYA-112 N64-25790 17-03

DUCTED FAN ENGINE
DUCTED FAN TURBOJET ENGINES
FTD-TT-62-1751/1&4 N64-21658 15-27

V/STOL AIRCRAFT - HELICOPTER, PROPELLER, DUCTED FAN, AND TURBOJET AIRCRAFT HANDLING QUALITIES
NASA-RP-286 N64-28229 20-04

DUCTILITY
SA CREEP
CF MECHANICAL PROPERTY
CF PLASTICITY
ANNEALING TEMPERATURE AND GRAIN SIZE EFFECT ON DUCTILITY AND BRITTLENESS OF POWDERED TUNGSTEN
ASD-TDR-63-676 N64-11769 03-18

HIGH DUCTILITY IN INTERMETALLIC NICKEL-TITANIUM COMPOUND AND NICKEL-RICH ALLOYS
N64-15104 07-18

ROOM TEMPERATURE BURST STRENGTH AND DUCTILITY OF MODEL DISKS IN FERRITE TURBINE DISK MATERIAL
ARC-CP-660 N64-16529 08-33

TENSILE STRENGTH AND DUCTILITY OF BERYLLIUM ABOVE ROOM TEMPERATURE
AD-432452 N64-19627 12-18

ELASTIC STRENGTH AND DUCTILITY RESEARCH
N64-19786 12-23

ROOM TEMPERATURE DUCTILE TUNGSTEN-BASE ALLOY
AD-600764 N64-21462 14-18

STRAIN-AGING AND BRITTLE-DUCTILE TRANSITION CHARACTERISTICS OF CHROMIUM
IS-745 N64-23621 16-18

EFFECTS OF RESIDUAL ELEMENTS ON DUCTILITY AND TENSILE STRENGTH OF MARAGING STEELS
N64-24370 17-18

PRODUCTION OF DUCTILE NIOBIUM FROM ELECTROLYTIC POWDERS
JPRS-16063 N64-28633 20-07

TENSILE STRENGTH AND DUCTILITY OF TUNGSTEN IN VACUUM - EFFECT OF GRAIN SIZE AND IMPURITIES
NASA-CR-58237 N64-29005 20-18

EFFECTS OF EXPOSURE TO AIR ON DUCTILITY AND PLASTICITY OF STAINLESS STEEL N64-29039 21-18

METALLURGICAL FACTORS CONTROLLING DUCTILE-BRITTLE PROPERTY OF BERYLLIUM
ASD-TDR-62-509, VOL. V N64-29972 21-18

IMPROVED STRENGTH AND DUCTILITY OF RECRYSTALLIZED NIOBIUM ALLOY SHEET
AD-600403 N64-30864 22-18

DUCTILE-BRITTLE BEHAVIOR OF TITANIUM CARBIDE SINGLE CRYSTALS
PR-1 N64-31286 22-25

PRESSURE EFFECT ON DUCTILITY OF METALS DURING HYDRODYNAMIC COMPRESSIVE FORGING
ML-TDR-64-240 N64-31894 23-17

DUCTILITY EXHAUSTION AND STATIC BRITTLE FRACTURE OF STEEL FROM PRESTRAIN AND AGING
SSC-162 N64-32664 23-18

RADIATION-INDUCED INCREASE IN DUCTILE-BRITTLE TRANSITION TEMPERATURE OF SIMULATED PRESSURE VESSEL WALL OF STEEL REACTORS
NRL-6151 N64-32670 23-18

TRANSITION FROM DUCTILE FLOW TO BRITTLE FRACTURE BEHAVIOR IN MODERATELY HIGH STRENGTH STEELS MEASURED BY REVERSE BEND METHOD
AD-444554 N64-33367 24-18

DUFFING EQUATION
CF PROBABILITY

RESONANCE OF NONLINEAR OSCILLATOR BY DUFFING EQUATION
AROD-4105-7 N64-32808 24-23

DUNALIELLA
OPTIMIZATION OF ILLUMINATION AND TEMPERATURE EFFECT ON CHLOROPHYLL CONCENTRATION OF DUNALIELLA SALINA CELLS N64-23657 16-16

DUPLEXER
LIMITER FOR LONG LIFE K-BAND DUPLEXER
AD-423267 N64-11751 03-09

GAS DISCHARGE CONFINEMENT MECHANISMS FOR IMPROVED PERFORMANCE OF GAS DISCHARGE DUPLEXERS
RADC-TDR-63-500 N64-13788 05-24

S-BAND FERRITE DUPLEXER CIRCULATOR AND LIMITER DESIGN - YTTRIUM-IRON GARNET SPHERE COUPLING
USAELRDL-TR-2390 N64-14641 06-08

LONG LIFE K-BAND DUPLEXER
AD-428787 N64-15361 07-25

ULTRAHIGH FREQUENCY THREE-PORT FERRITE DUPLEXER
AD-436028 N64-18845 11-09

CONFINEMENT OF GAS DISCHARGE WITH MAGNETICALLY CONTROLLED DUPLEXER
RADC-TDR-64-73 N64-19064 11-09

HIGH POWER DUPLEXER UTILIZING PLASMA CONFINED BY MAGNETIC FIELD
QR-1 N64-19143 11-24

THREE-PORT C-BAND FERRITE DUPLEXER
SJ.M-220-0037-4 N64-19803 12-09

S-BAND ELECTRON BEAM DUPLEXER
NA-8210-8352-3 N64-21334 14-09

MAGNETIC FIELD FOR IMPROVEMENT OF HIGH POWER PERFORMANCE OF GAS DUPLEXER TUBES
USAELRDL-TR-2432 N64-25131 17-24

HIGH POWER MULTIPACTOR DUPLEXES AND SWITCHES
RADC-TDR-64-165 N64-25236 17-09

ELECTRIC DISCHARGE ARC LOSS IN HELIUM AS FUNCTION OF GAS PRESSURE AND TRANSVERSE MAGNETIC FIELD - RADAR GAS DUPLEXERS
RADC-TDR-64-229 N64-29828 21-24

PROTOTYPE DESIGN OF X-BAND STRIP LINE DUPLEXER
QPR-3 N64-30571 22-09

DESIGN AND FABRICATION OF S-BAND ELECTRON BEAM DUPLEXER
NA-8210-8352-1 N64-31245 22-09

LONG LIFE K-BAND DUPLEXER WITH LOW LEAKAGE POWER CHARACTERISTICS
REPT.-7 N64-33985 24-09

DUST
DETECTION INSTRUMENTS FOR TOXIC GASES, VAPORS, AND DUSTS
JPRS-21771 N64-10205 01-16

ATMOSPHERIC POLLUTION - DEFINITION, PARAMETERS, & CHARACTERISTICS OF AIR AND ATMOSPHERIC POLLUTANTS AND CLASSIFICATION OF DUSTS AND MISTS N64-11046 02-21

UNIFORM MOTION OF PARTICLES, SHAPE COEFFICIENTS, SETTLING VELOCITY OF DUST PARTICLES, AND BROWNIAN MOTION - AIR POLLUTANTS N64-11049 02-21

DISPERSION OF ATMOSPHERIC POLLUTANTS - FORMULAS FOR EMISSION SOURCES - DUSTFALL, PRECIPITATION, & TOPOGRAPHICAL EFFECT N64-11051 02-21

METERS, COLLECTING PLATES AND DIRECTIONAL SAMPLERS FOR ESTIMATING DUSTFALL - PARTICLE ORIGIN AND PHYSICAL & CHEMICAL TESTING N64-11054 02-21

MECHANISMS FOR CONDENSATION OF INTERPLANETARY DUST AROUND EARTH
NH-TRANS-462 N64-11578 03-05

INTERPLANETARY DUST PARTICLE IMPACT ON LUNAR SURFACE
NASA-TN-D-2100 N64-11906 03-29

SLOPE ANGLES OF LOOSE MATERIALS AND HYPOTHESIS OF DUST-COVERED LUNAR SURFACE N64-12799 04-29

CONCENTRATION OF DUST IN UPPER ATMOSPHERE AS INDICATED BY VARIATIONS IN LUMINESCENT INTENSITY N64-15458 07-23

CONCENTRATION OF DUST IN UPPER ATMOSPHERE AS INDICATED BY VARIATIONS IN LUMINESCENT INTENSITY N64-15458 07-23

ATMOSPHERIC AEROSOL PARTICLE SIZE DISTRIBUTION AND INFLUENCE ON LIGHT SCATTERING PROPERTIES OF ATMOSPHERE N64-15459 07-23

DIRECT MEASUREMENT OF INTERPLANETARY DUST FROM SATELLITES AND SPACE PROBES
NASA-TM-X-54570 N64-17609 09-05

INTERPLANETARY DUST AND DEBRIS NEAR EARTH AND IMPINGEMENT ON EARTH N64-18460 10-05

PACKING PROPERTIES OF FINE POWDERS AND DEPTH OF LUNAR DUST LAYER N64-18497 10-29

PRESSURE PROBES, DRAG MEASUREMENT DEVICES, AND DUST COLLECTORS TO MEASURE DYNAMIC AND SURFACE PRESSURE ON CYLINDRICAL BODIES
DASA-1433 N64-18846 11-15

ACCELERATION OF STARS IN INTERACTION WITH IMMOBILE DUST CLOUDS N64-19336 12-05

SOLAR WIND, MAGNETIC FIELDS, COSMIC RAYS, AND DISTRIBUTION OF INTERPLANETARY MATTER
NASA-CR-53732 N64-19571 12-29

SCATTERING OF ELECTRONS AND IONS BY DUST PARTICLES IN GAS - SQUID PROJECT
ILL-14-P N64-19637 12-24

VERTICAL DISTRIBUTION OF DUST IN ATMOSPHERE & EFFECTS ON ION CONCENTRATION
AD-600940 N64-22920 16-12

LIGHT RADIATION PRESSURE ON DUST AND GAS - INTERSTELLAR MOTION AND STRUCTURE OF NEBULAS N64-23182 16-29

NOCTILUCENT CLOUDS AND COSMIC DUST ON EARTH
JPRS-25011 N64-23514 16-12

ADDITION OF COSMIC MATTER TO EARTH N64-23516 16-12

IDENTIFICATION OF CRYSTALLINE MINERALS IN ATMOSPHERIC DUST BY X-RAY DIFFRACTION AND INFRARED ABSORPTION
ERDA-141 N64-24336 17-23

TRANSPORT OF ATMOSPHERIC DUST BY JET STREAM IN STRATOSPHERE AND TROPOSPHERE FRONTAL AREAS N64-24802 17-21

LUNAR DUST VERSUS COHESIVE LUNAR SURFACE MODEL
ADR-04-04-64.2 N64-24873 17-29

DIRECT MEASUREMENTS OF INTERPLANETARY DUST FROM SATELLITES AND PROBES
NASA-RP-234 N64-26072 18-05

COMPOSITION AND ANNUAL ACCRETION OF COSMIC DUST ON EARTH
NASA-TT-F-8698 N64-27146 19-29

MATERIALS EROSION BY AIRBORNE DUST
AR-499 N64-31250 22-17

METEORITIC FLUX AND DENSITY FIELDS ABOUT FINITE ATTRACTIVE CENTER GENERATED BY STREAM MONOENERGETIC AND MONODIRECTIONAL AT INFINITY
NASA-RP-327 N64-32381 23-29

METEORITIC FLUX AND DENSITY FIELDS ABOUT INFINITESIMAL ATTRACTIVE CENTER GENERATED BY

STREAM MONOENERGETIC AND MONODIRECTIONAL AT INFINITY
NASA-RP-329 N64-32382 23-29

CONCENTRATION AND PARTICLE SIZE DISTRIBUTION OF DUST PASSING GAS TURBINE AIR CLEANERS AND ENTERING ENGINE
TRECOM-TR-64-16 N64-32614 23-27

ORIGIN OF AIRBORNE DUST PARTICLES - ICE NUCLEI
RPR-149 N64-33015 24-21

DYADIC
MAPPING OF NONLINEAR INVARIANT VECTOR-DYADIC EQUATIONS TO STATE VECTOR FORM FOR OPTIMAL CONTROL
TN-41 N64-10544 01-20

QUATERNIONS USED IN RERESENTATION OF ANGULAR COORDINATES
NASA-TT-F-9101 N64-31331 22-20

DYADIC OPERATIONS WITH EIGENVECTOR BASES
TN-109 N64-31639 23-20

DYE
SPIRALIZATION OF TRANSPORT RIBONUCLEIC ACID MEASURED BY DURATION OF FLUORESCENCE OF ACRIDINE ORANGE DYE
JPRS-22521 N64-12067 03-16

DIMENSIONAL, VISUAL, AND DYE-PENETRANT INSPECTIONS OF TUNGSTEN SHEET
ER-1399-1 N64-12929 04-18

DYE METHOD FOR DETECTING TRACE AMOUNTS OF PROTEINS BY J-BAND ABSORPTION TECHNIQUE
NASA-CR-56534 N64-22795 16-07

THERMAL AND GAMMA RADIATION BEHAVIOR OF HEAT RESISTANT DYED FIBER
ML-TDR-64-77 N64-23964 16-23

TRYPAFLAVINE SEMICONDUCTOR DYE
T-R-403 N64-29414 21-07

USE OF ANISOTROPIC DYE MOLECULES TO TAG AMORPHOUS REGIONS OF POLYCRYSTALLINE POLYMERS
ONR-TR-68 N64-30174 21-19

WATER INTOXICATION DUE TO GASTRIC LAVAGE IN CASES OF SUSPECTED ANILINE POISONING
NASA-TT-F-9056 N64-31445 23-16

PHOTOTROPIC PROPERTIES OF DYE-ENZYME SYSTEMS
STL-4133-6002-RU000 N64-32471 23-07

DYNAMIC LOAD
STRESS DISTRIBUTION OF DYNAMIC LOAD ON UNDERGROUND SHELTER AND TUNNEL N64-12410 04-10

STRUCTURAL FAILURE OF DISTORTED TUNNEL BY DYNAMIC BLAST LOADS N64-12412 04-12

ROCK AND SOIL WAVE ATTENUATION RESPONSE TO DYNAMIC LOADING BY NUCLEAR EXPLOSIONS N64-12414 04-23

MATERIAL TESTING - SIMULTANEOUS RECORDING OF STRESS, STRAIN, AND TIME DATA FOR 100 MICROSECOND LOADING DURATION WITH SPLIT HOPKINSON PRESSURE BAR
AD-433700 N64-18872 11-15

STRESS WAVE PROPAGATION IN DYNAMIC LOADING OF SNOW
CRREL-119 N64-21025 14-19

DESIGN CRITERIA FOR GROUND INDUCED DYNAMIC LOADS
RTD-TDR-63-4139, VOL. I N64-22315 15-34

DETERMINISTIC AND STATISTICAL ANALYSES OF DYNAMIC LOADING OF AIRCRAFT OPERATING ON PREPARED SURFACES
RTD-TDR-63-4139, VOL. II N64-22316 15-33

ELASTIC AND PLASTIC DEFORMATIONS OF CYLINDRICAL THIN SHELLS UNDER DYNAMIC LOADING
TR-3 N64-22326 15-33

STRAIN GAUGE FOR LABORATORY STUDY OF SMALL SOIL SAMPLES UNDER STATIC & DYNAMIC LOADING
WL-TDR-64-7 N64-22700 15-15

MODELING OF REINFORCED CONCRETE STRUCTURES UNDER DYNAMIC LOAD
R63-54 N64-25749 17-33

RESPONSE OF VARIOUS ELASTIC AND INELASTIC BODIES TO DYNAMIC LOADING
AROD-2951-9 N64-26819 18-33

DYNAMIC LOAD ON PROPELLER BLADES OF SHIP IN ICE CONDITIONS
JPRS-26033 N64-27616 19-33

THERMAL PROTECTION SYSTEMS AND THERMOSTRUCTURES TO WITHSTAND EXTENDED HIGH TEMPERATURES, INTENSE NOISE, AND DYNAMIC LOADS
AD-439449 N64-30537 22-34

NEGATIVE EQUATION OF STATE AND SPALL CRITERIA FOR SOLID MATERIAL UNDER DYNAMIC STRAIN
RTD-TDR-63-3039 N64-31235 22-33

RESPONSE OF SIMPLIFIED ICBM-TYPE STRUCTURES TO IMPULSIVE LOADING - RIGID-PLASTIC THEORY, DYNAMIC ELASTIC BUCKLING, TRAVELING LOADS, AND FLOW BUCKLING THEORY
AFWL-TDR-64-22, VOL. II N64-31651 23-33

DYNAMIC STRESS-STRAIN BEHAVIOR OF PLASTICS AND ENGINEERING MATERIALS
AROD-3263-8 N64-31655 23-19

DISPLACEMENT BOUND PRINCIPLE FOR INELASTIC CONTINUUM SUBJECTED TO CERTAIN CLASSES OF DYNAMIC LOADING
BU/DTMB/2 N64-31921 23-33

DISPLACEMENT BOUND PRINCIPLE FOR INELASTIC CONTINUUM SUBJECTED TO DYNAMIC LOADING
BU/DTMB/3 N64-31922 23-33

BOUNDARY THEOREMS FOR RIGID PLASTIC MATERIAL UNDER CERTAIN CONDITIONS OF DYNAMIC LOADING
BU/DTMB/1 N64-32277 23-33

DYNAMIC DEFORMATION OF SINGLE CRYSTAL AND POLYCRYSTALLINE SPECIMENS OF HIGH PURITY ALUMINUM
TR-2 N64-32952 24-18

BUCKLING OF SHELLS UNDER DYNAMIC LOADS - STABILITY OF AXIALLY-LOADED THIN CYLINDRICAL SHELLS UNDER DYNAMIC LATERAL PRESSURES
NASA-CR-58949 N64-33280 24-33

DYNAMIC LOAD AND INTERNAL PRESSURE IN ROCKET LAUNCHER FIRING TESTS
NAVWEPS-8501 N64-33721 24-10

DYNAMIC MODEL
THEORY OF CONTROL FOR GENERALIZED DYNAMIC SYSTEMS
MH-TRANS-380 N64-14803 06-20

DYNAMICS OF SEPARATING BODIES - EJECTIONS OF DYNAMIC MODELS FROM CARRIER VEHICLE AT SUPERSONIC AND HYPERSONIC SPEEDS
ORA-63-15 N64-20379 13-02

DISCRETE LINEAR DYNAMIC SYSTEM - REPRESENTATION PROBLEM
MEMO-2900-463-R N64-20535 13-20

DYNAMIC MODEL MISSILE SIMULATOR FOR PREDICTION OF STRUCTURAL VIBRATION
NOR-63-139 N64-21438 14-33

DYNAMIC MATHEMATICAL MODEL FOR EVALUATING AIRBORNE EXTERIOR LAMPS N64-23159 16-06

DYNAMIC MODEL ATMOSPHERIC EFFECTS UPON SATELLITE MOTION AND SATELLITE LIFETIME
SSD-TDR-64-51 N64-25247 17-29

AEROELASTIC AND DYNAMIC MODELING
RTD-TDR-63-4197, PT. I N64-29251 21-33

DYNAMIC MODELING - HISTORY AND PROJECTED FUTURE USES N64-29252 21-33

DYNAMIC STRUCTURAL MODELING USING MATERIALS DIFFERENT FROM FULL SCALE DESIGN

N64-29254 21-33

WIND TUNNEL TEST METHODS FOR DYNAMIC MODEL
N64-29256 21-33

FREE FLIGHT MOUNTING SYSTEM FOR HIGH SPEED WIND TUNNEL FLUTTER TESTING OF DYNAMIC MODELS
N64-29257 21-33

INFLATABLE WIND TUNNEL FLUTTER MODELS
N64-29258 21-33

SUPPORT SYSTEMS AND EXCITATION TECHNIQUES FOR DYNAMIC MODELS OF SPACE VEHICLE STRUCTURES
N64-29259 21-33

DIAGNOSIS OF DYNAMIC MODEL FLUTTER RESPONSE USING TIME CORRELATION TECHNIQUES N64-29260 21-33

DYNAMIC MODEL TESTING VERSUS COMPUTER SIMULATION FOR ANALYSIS OF PROBLEMS FOR AEROSPACE VEHICLES
N64-29261 21-33

DYNAMIC MODELS FOR STUDY OF LAUNCH VEHICLE BUFFETING AT TRANSONIC SPEEDS AND GROUND-WIND LOADS N64-29262 21-33

SIMULATION OF ORBITAL MOORING OF GEMINI SPACECRAFT AND AGENA ROCKET WITH DYNAMIC MODELS
N64-29263 21-33

DYNAMIC MODELING FOR CONTROL OF FUEL SLOSHING
N64-29264 21-33

DYNAMIC MODEL ROTOR BLADES FOR HIGH SPEED HELICOPTER RESEARCH N64-29265 21-33

DYNAMIC MODELS FOR LOW CYCLE FATIGUE TESTING
N64-29266 21-33

SCALE MODEL TEST PROGRAM FOR HAYSTACK PROJECT ANTENNA N64-29267 21-33

AEROTHERMOELASTIC PROBLEMS WITH SCALING LAWS IN DYNAMIC MODEL SIMULATION OF REENTRY GLIDE VEHICLES
N64-29271 21-33

DYNAMIC MODEL TESTING OF XC-142A AIRCRAFT
N64-29273 21-33

EXPERIMENTAL TEST WITH DYNAMICALLY SCALED DROP TEST MODEL OF LUNAR LANDING VEHICLE
N64-29632 21-10

SABOT DESIGN FOR GUN-LAUNCHING OF AERODYNAMIC MODELS - PROJECT DEFENDER
CTN64-04 N64-32683 23-10

DYNAMIC MODULUS

CRYSTAL DISLOCATION, INTERNAL FRICTION, AND DYNAMIC MODULUS OF FACE CENTERED CUBIC METALS AFTER DEFORMATION N64-11630 03-25

INTERNAL FRICTION AND DYNAMIC ELASTIC MODULUS OF SINTERED ALUMINUM POWDER
EUR-402.1 N64-13141 04-23

DYNAMIC PRESSURE

PRESSURE PROBES, DRAG MEASUREMENT DEVICES, AND DUST COLLECTORS TO MEASURE DYNAMIC AND SURFACE PRESSURE ON CYLINDRICAL BODIES
DASA-1433 N64-18846 11-15

EXHAUST NOZZLE TESTING USING COLD AIR FLOW TO FIND EFFECT OF EXIT DESIGN ON THRUST & JET WAKE DYNAMIC PRESSURE FOR USE IN VTOL DOWNWASH SUPPRESSION
NASA-TN-D-2263 N64-18958 11-02

STATIC AND DYNAMIC PRESSURE MEASUREMENTS OF GAS COMBUSTION CHAMBERS
FTD-TT-63-23/1&2 N64-18997 11-26

FILM THICKNESS AND DYNAMIC PRESSURE VARIATIONS IN RADIAL FACE PUMP SEALS N64-19023 11-17

SUPERCRITICAL BREAKUP OF DROPLETS AND FLUID STREAM OF WATER BY DYNAMIC PRESSURE OF AIR SHOCK WAVE
N64-23653 16-11

STABILITY OF AXIALLY LOADED THIN CYLINDRICAL SHELL UNDER DYNAMIC LATERAL PRESSURES
AIAA PAPER-64-485 N64-24218 16-23

DYNAMIC THERMAL AND PRESSURE STRESSES IN THIN SPHERICAL SHELLS
PWA-2386 N64-31119 22-33

PARACHUTE DESIGN AND PERFORMANCE DATA ON ROCKET-POWERED SLED TESTS - HIGH DYNAMIC PRESSURE OPERATION
FDL-TDR-64-66 N64-33270 24-04

DYNAMIC PROGRAMMING

ELECTRONIC COMPUTER SOLUTION TO DISTURBANCE AND RELATED PROBLEMS OF DYNAMIC PROGRAMMING THEORY
N64-11612 03-20

DYNAMIC PROGRAMMING OF TIMING OF MIDCOURSE GUIDANCE MANEUVERS OF SPACECRAFT FOR MINIMIZING FINAL ERROR
NASA-CR-53000 N64-13281 04-29

CALCULUS OF VARIATIONS, DYNAMIC PROGRAMMING, AND STEEPEST DESCENT METHODS USED AS OPTIMIZATION TECHNIQUES FOR FLIGHT MECHANICS PROBLEMS
SM-45811 N64-20478 13-20

DYNAMIC PROGRAMMING METHODS FOR OPTIMUM FLIGHT CONTROL PROBLEMS
FDL-TDR-64-11 N64-20862 14-20

QUASI-LINEARIZATION, DYNAMIC PROGRAMMING, AND INVARIANT IMBEDDING FOR TRANSFORMING TWO-POINT BOUNDARY VALUE PROBLEMS INTO SUITABLE FORM FOR SOLUTION BY DIGITAL COMPUTER
P-2878 N64-21526 15-20

DYNAMIC PROGRAMMING, INVARIANT IMBEDDING, AND QUASI-LINEARIZATION
RM-4038-PR N64-21546 15-20

TWO-POINT NONLINEAR BOUNDARY VALUE PROBLEM SOLVED BY DYNAMIC PROGRAMMING, INVARIANT IMBEDDING, AND QUASI-LINEARIZATION
RM-4069-PR N64-21620 15-20

DYNAMIC PROGRAMMING, EXTRAPOLATION, AND SMOOTHING USED TO TREAT ILL-CONDITIONED LINEAR SYSTEMS
RM-3815-PR N64-21715 15-20

DYNAMIC PROGRAMMING - BIBLIOGRAPHY
RM-3951-PR N64-22614 15-20

DYNAMIC PROGRAMMING FOR LINEAR AND PLANAR ANTENNA ARRAYS
AD-601663 N64-23952 16-09

DYNAMIC PROGRAMMING, VARIATIONAL CALCULUS, AND ADAPTIVE & STOCHASTIC CONTROL
NASA-CR-56202 N64-24163 16-29

DYNAMIC PROGRAMMING FOR ROCKET TRAJECTORIES
A-58-5 N64-24930 17-30

DYNAMIC PROGRAMMING - RECURSION FORMULATION OF OPTIMIZATION PROBLEMS
RADC-TDR-64-10 N64-25637 17-29

APPLICATION OF DYNAMIC PROGRAMMING TO LINEAR TIME-VARYING DIFFERENTIAL EQUATIONS
RM-4099-PR N64-26194 18-21

DYNAMIC AND LINEAR PROGRAMMING TECHNIQUES FOR NONLINEAR AND MULTIPLE-PROCESSOR PROBLEMS
TR-140 N64-26846 18-20

SUFFICIENT CONDITION FOR DERIVING AND OPTIMIZING DYNAMIC PROGRAMMING METHODS
JPRS-26273 N64-28429 20-21

DYNAMIC PROGRAMMING FOR OPTIMAL SCHEDULING OF APPARATUS N64-30216 22-20

DYNAMIC PROGRAMMING FOR DIRECT SOLUTION OF VARIATIONAL PROBLEMS OF OPTIMAL CONTROL
N64-30414 22-20

CHARACTERISTIC FUNCTIONAL EQUATION USED AS

ALGORITHM IN DYNAMIC PROGRAMMING
RM-3661-PR N64-31038 22-20

ALGORITHM BASED ON DYNAMIC PROGRAMMING DEVELOPED FOR SPECIFIC VALUES OF QUANTIZER PARAMETERS
N64-33698 24-23

DYNAMIC PROPERTY
EVALUATION OF DYNAMIC PROPERTIES OF VISCOELASTIC SOLIDS BY FORCED LONGITUDINAL AND TORSIONAL VIBRATIONAL TECHNIQUES
RES. REPT.-122 N64-20349 13-23

STATIC AND DYNAMIC PROPERTIES OF JOURNAL BEARINGS IN LAMINAR AND TURBULENT FLOW REGIMES
NASA-CR-54034 N64-21465 14-17

SOLID PROPELLANT DYNAMIC PROPERTIES AND EFFECT ON VIBRATION RESPONSE OF MODEL SOLID PROPELLANT STRUCTURES
N64-23160 16-26

STATIC AND DYNAMIC CHARACTERISTICS OF SPIRAL-GROOVED THRUST BEARING
MTI-64TR11 N64-23202 16-17

DYNAMIC PROPERTIES OF ROTOR MOTION STEP-BY-STEP MOTORS DURING UNIT DISTURBANCE N64-24541 17-09

DYNAMIC PROPERTIES OF VARIOUS BODIES DURING HEAT EXCHANGE BY CONVECTION, CONDUCTION, AND RADIATION
N64-24552 17-15

RADIATION EFFECTS ON DYNAMIC PROPERTIES OF HIGH POLYMERS
N64-28828 20-25

STATIC AND DYNAMIC PROPERTIES OF PHOTOELASTIC MATERIALS AND POTENTIAL USE IN DYNAMIC STRESS ANALYSIS
NRL-5940 N64-28873 20-19

VOLTAGE-CURRENT MEASUREMENTS OF XENON FLASHTUBES FOR DYNAMIC RESISTANCE CHARACTERISTIC DATA
RADC-TDR-64-294 N64-30941 22-09

DYNAMIC PROPERTIES OF SOLUTIONS OF SECOND ORDER LINEAR DIFFERENTIAL EQUATIONS
RM-4104-PR N64-33233 24-20

DYNAMIC RESPONSE
RADIATION SHIELDING AND DYNAMIC RESPONSE OF UNDERGROUND REINFORCED-CONCRETE TEST STRUCTURES
WT-1723 N64-11964 03-23

RADIOGRAPHIC METHODS FOR DYNAMIC SOIL RESPONSE
N64-12411 04-12

CAPACITOR DISCHARGE EXTRUSION AND DYNAMIC RESPONSE OF SHOCK LOADING
RAC-1776 N64-12640 04-17

DYNAMIC RESPONSE AND FAILURE MECHANISMS IN COMPOSITE SOLID PROPELLANTS
LPC-618-P-11 N64-14820 06-26

DYNAMIC WIND-TUNNEL MODEL FOR STABILITY, CONTROL, AND RESPONSE CHARACTERISTICS & FLIGHT LOAD TESTING OF AIRCRAFT
TECH. LETTER 1310 N64-14830 06-10

FIDELITY OF DYNAMIC RESPONSES OF PRESSURE TRANSDUCERS
NASA-CR-55320 N64-14901 06-15

DYNAMIC RESPONSE OF THIN, UNIFORM, TRUNCATED SPHERICAL SHELL TO AIRBLAST INDUCED SHOCK LOADS
NA63H-1035 N64-15056 07-33

FEEDBACK PURPOSE IN CONTROL SYSTEM - STATIC AND DYNAMIC PERFORMANCE IMPROVEMENTS TO MINIMIZE EFFECT OF NOISE AND UNPREDICTABLE CHANGES
RES. REPT.-41 N64-15704 07-20

SHOCK, VIBRATION, & DYNAMIC RESPONSE OF VEHICLES AND WEAPON SYSTEMS TO ENVIRONMENTS
AD-432931 N64-18534 11-33

VIBRATION AND DYNAMIC RESPONSE OF SCALE MODEL OF NIMBUS SPACECRAFT SATELLITE N64-18541 11-30

DYNAMIC ENVIRONMENT, ROCKET EXHAUST NOISE, BOUNDARY LAYER NOISE, AND RANDOM & SINUSOIDAL VIBRATION OF S- IV AND S- IVB VEHICLES
N64-18542 11-30

ACOUSTICAL VIBRATION DYNAMIC ENVIRONMENT FOR LARGE BOOSTER LAUNCH FACILITY N64-18543 11-10

FLIGHT EVALUATION OF VEHICLE BENDING DATA FOR SATURN I LAUNCH VEHICLE - STRUCTURAL VIBRATION, DYNAMIC RESPONSE N64-18545 11-30

DYNAMIC RESPONSE OF SPACECRAFT ELECTRONIC PACKAGING TO HYDRAULIC SHOCKS N64-18553 11-33

ELEMENTS OF NORMAL MODE THEORY FOR DEFINING DYNAMIC RESPONSE OF LINEAR ELASTIC STRUCTURES
NRL-6002 N64-18778 11-33

MULTIPLE REGRESSION ANALYSIS OF HUMAN PILOT DYNAMIC RESPONSE
ASD-TDR-63-618 N64-18787 11-20

EQUATIONS FOR DYNAMIC RESPONSE OF THREE-DIMENSIONAL SHELLS OF ELASTIC-PLASTIC MATERIALS
ASRL-TR-110-1 N64-19110 11-33

DYNAMIC RESPONSE AND FAILURE MECHANISMS IN SOLID PROPELLANTS
LPC-618-F N64-19651 12-26

SATELLITE MOTION SIMULATOR FOR RESPONSE TESTING OF SPACE VEHICLE ATTITUDE CONTROL SYSTEM
NASA-TM-X-51643 N64-19938 12-10

DYNAMIC RESPONSE OF GEMINI AND AGENA D SPACECRAFT MODELS - DOCKING TESTS N64-20248 13-30

DYNAMIC RESPONSE OF AIRPLANES TO ATMOSPHERIC TURBULENCE
NASA-TR-R-199 N64-21430 14-04

EFFECTS OF HIGH SUSTAINED ACCELERATION ON PILOT PERFORMANCE AND DYNAMIC RESPONSE
NASA-TN-D-2067 N64-24815 17-16

NONLINEAR DYNAMIC RESPONSE OF REINFORCED CONCRETE CIRCULAR ARCHES
R64-6 N64-25584 17-33

DYNAMIC RESPONSE OF SANTA RITA LAUNCH PLATFORM AND EFFECT ON SCOUT GUIDANCE SYSTEM ACCURACY
N64-28001 20-22

DYNAMIC BEHAVIOR OF FLUID CONSISTING OF ELECTRICALLY CHARGED PARTICLES HAVING SPIN - MAGNETOGASDYNAMICS
NASA-TM-X-55001 N64-28757 20-24

DYNAMIC RESPONSE OF LAUNCHER UNDERSTRUCTURE DURING SIMULATED ROCKET LOADING
REPT.-10 N64-30052 21-10

RUNWAY UNEVENNESS EFFECT ON DYNAMIC RESPONSE OF SUPERSONIC TRANSPORT - DIGITAL COMPUTER PROGRAM
NASA-CR-119 N64-32830 24-04

DYNAMIC STABILITY
MATHEMATICAL MODEL FOR UNDERSTANDING DYNAMIC STABILITY OF HELICOPTERS IN HOVERING
MP-220 N64-12918 04-04

STATIC & DYNAMIC TESTS ON LEAD-SHIELDED STEEL CASK USED FOR RAIL SHIPMENT OF RADIOACTIVE FUEL
DP-843 N64-13372 04-33

FLIGHT TEST EVALUATION OF AIRPLANE DYNAMIC LONGITUDINAL STABILITY IN LOW ALTITUDE, HIGH SPEED REGION
AD-427696 N64-13885 05-04

ELECTRON-ION RECOMBINATION, DENSITY MEASUREMENTS, DYNAMIC STABILITY, AND RUNAWAY EFFECT WITHIN PLASMA COMPOSITION
AFCRL-63-199/2/ N64-14220 06-24

ERROR ESTIMATION OF SYSTEM DYNAMIC STABILITY IN QUANTUM STATISTICAL MECHANICS - PERTURBATION THEORY N64-14223 06-23

ANALYTICAL EXAMINATION OF DYNAMIC STABILITY OF SUPERSONIC TRANSPORT AIR INLET AND THRUSTOR
LR-16261-3 N64-14808 06-27

SHALLOW ATMOSPHERIC ENTRY - ANALYSIS OF REENTRY TRAJECTORY, AERODYNAMIC HEATING AND VEHICLE ATTITUDE DYNAMICS
RTD-TDR-63-3098 N64-14908 06-30

HYPERVELOCITY WIND TUNNEL TESTS FOR DYNAMIC STABILITY OF CONE WITH NITROGEN GAS INJECTION INTO FLOW FIELD AT NOSE
REPT.-2-59740/3R-479 N64-15343 07-16

NONLINEAR MOTION EQUATIONS FOR DYNAMIC STABILITY OF PARACHUTES
AGARD-444 N64-18716 11-04

SHOCK-EXPANSION METHOD FOR CALCULATING STATIC AND DYNAMIC STABILITY OF AIRFOILS & AXISYMMETRIC BODIES AT HYPERSONIC SPEEDS
C-910188-4 N64-19185 11-02

AIRCRAFT MODEL FLIGHT TEST TECHNIQUES FOR LOW SPEED STUDIES OF DYNAMIC STABILITY AND CONTROL
AGARDOGRAPH-76 N64-19780 12-04

MATHEMATICAL MODEL TO STUDY DYNAMIC STABILITY OF HELICOPTERS IN HOVERING
AGARD-470 N64-19891 12-04

DYNAMIC STABILITY OF RESONANT CIRCUIT ELECTRICALLY SUSPENDED GYROSCOPE /ESG/
R-166 N64-20152 13-15

LINEAR EQUATION FOR SHIP STEERABILITY - DYNAMIC STABILITY OF SHIP MOTION N64-20780 14-11

NONLINEAR APPROACH TO SHIP STEERABILITY - DYNAMIC STABILITY N64-20781 14-11

BOUNDARY LAYER TRANSITION & DYNAMIC STABILITY OVER LARGE AMPLITUDES OF OSCILLATION
AIAA PAPER-64-427 N64-23355 16-11

HYPERSONIC STATIC AND DYNAMIC STABILITY COEFFICIENTS OF SHARP-NOSED AXISYMMETRIC BODIES AND WING-FUSELAGE COMBINATIONS
C910188-8 N64-24127 16-11

VIBRATIONAL ANALYSIS OF TITAN II CONFIGURATION A VEHICLE DYNAMIC STABILITY
SSD-CR-64-103 N64-25337 17-30

ATMOSPHERIC FLIGHT MECHANICS STUDIES USING FREE FLIGHT TESTING IN CONVENTIONAL WIND TUNNEL
AIAA PAPER-64-476 N64-25360 17-02

DYNAMIC STABILITY OF TOWED PARAGLIDER AIR CARGO DELIVERY SYSTEM
NASA-TN-D-2292 N64-26416 18-04

DYNAMIC STABILITY OF SIMPLY SUPPORTED AND CLAMPED ROD
SSD-TDR-64-21 N64-27469 19-23

DYNAMIC TESTS OF V/STOL TRANSPORT AIRCRAFT
AIAA PAPER-64-619 N64-27646 19-04

EQUATIONS OF MOTION FOR SPINNING ELASTIC ROCKET WITH RESPECT TO ATTACHED AXES - DYNAMIC STABILITY N64-28100 20-30

PILOT EVALUATION OF DYNAMIC STABILITY CHARACTERISTICS OF SUPERSONIC TRANSPORT IN CRUISING FLIGHT USING FIXED-BASE SIMULATOR
NASA-TN-D-2436 N64-28328 20-04

DYNAMIC STABILITY OF SHORT CYLINDRICAL SHELLS & CURVILINEAR PANELS IN SUPERSONIC GAS FLOW
FTD-TT-63-1227/1&2 N64-29028 21-03

TRANSONIC WIND TUNNEL TEST OF SCALE MODEL DE HAVILLAND BLUE STREAK MISSILE - DYNAMIC STABILITY AND STATIC PRESSURE
ARC-CP-734 N64-29234 21-04

HIGH DENSITY BEHAVIOR & DYNAMIC STABILITY OF NEUTRON STAR MODELS N64-29387 21-05

NONLINEAR LONGITUDINAL DYNAMIC STABILITY OF AIRCRAFT
NASA-TR-R-209 N64-29511 21-04

DYNAMICS OF PASSIVELY DAMPED AND GRAVITY STABILIZED SATELLITES
NASA-CR-58291 N64-29570 21-32

DYNAMIC LATERAL STABILITY AND CONTROL FOR SUPERSONIC TRANSPORT
NASA-TN-D-2483 N64-31000 22-04

STABILITY OF DYNAMIC SYSTEMS, NONLINEAR OSCILLATIONS, AND FUNCTIONAL-DIFFERENTIAL EQUATIONS
AD-422279 N64-31186 22-23

DISPLACEMENT BOUND PRINCIPLE FOR INELASTIC CONTINUUM SUBJECTED TO CERTAIN CLASSES OF DYNAMIC LOADING
BU/DTMB/2 N64-31921 23-33

DISPLACEMENT BOUND PRINCIPLE FOR INELASTIC CONTINUUM SUBJECTED TO DYNAMIC LOADING
BU/DTMB/3 N64-31922 23-33

MATRIX OPERATIONS, LINEAR INTEGRAL EQUATIONS THEORY, AND DIFFERENTIAL EQUATIONS FOR DYNAMIC STABILITY OF RODS AND ELASTIC SYSTEMS
TDR-169/3560-30/TR-2, VOL. 4 N64-32303 23-20

HYPERSONIC STATIC AND DYNAMIC STABILITY OF OGIVE AND OGIVE-CYLINDER FUSELAGES, AND OF RECTANGULAR AND DELTA WINGS
C910188-12 N64-33296 24-02

DYNAMICS
SA AERODYNAMICS
SA ELECTRODYNAMICS
SA GAS DYNAMICS
SA HYDRODYNAMICS
SA KINEMATICS
SA KINETICS
SA STRUCTURAL DYNAMICS
SA THERMODYNAMICS
CF CONTINUUM MECHANICS
IDENTIFICATION AND CONTROL OF LINEAR DYNAMIC SYSTEMS WITH UNKNOWN PARAMETERS
N64-10609 01-04

NONLINEAR PROBLEM OF ROCKET DYNAMICS - OPTIMUM CONTROL STRUCTURE AND FIRST INTEGRALS
N64-11611 03-20

CORRECTION OF DYNAMIC ERROR IN MACHINE TOOLS WITH PROGRAMMED CONTROL N64-11614 03-17

GEOMETRY OF MAGNETOSPHERE AND DYNAMICS OF ENERGETIC PARTICLES AND PLASMA IN RELATION TO GEOMAGNETISM
NASA-CR-52904 N64-11740 03-12

ANALYSIS OF MIXED BOUNDARY VALUE PROBLEMS IN STEADY-STATE ELASTODYNAMICS
AFCRL-63-785 N64-11931 03-20

SPACE VEHICLE DYNAMICS - OPTIMAL CONTROL OF TRANSFER TIME N64-13338 04-29

THERMODYNAMICS & FLUID DYNAMICS OF MATTER UNDER HIGH STRESS N64-13432 05-23

DYNAMICS OF VISCOELASTIC MEDIA N64-13435 05-23

DYNAMIC RESPONSE OF TWO-DIMENSIONAL STRUCTURES TO IMPULSE LOADING N64-13440 05-23

DYNAMIC BEHAVIOR OF QUANTUM MECHANICAL OSCILLATORS
AD-427186 N64-14112 05-25

IONOSPHERIC RESEARCH - PHYSICS, DYNAMICS, & AERONOMIC PROPERTIES OF EARTH & PLANETARY ATMOSPHERE
AFCRL-63-931 N64-14972 06-12

DYNAMIC CHARACTERISTICS OF SUB-POLAR FRONT IN NORTH ATLANTIC
JPRS-23109 N64-15050 07-17

CURRENT VALUES AND INTERRELATIONSHIPS OF ASTRODYNAMIC CONSTANTS - HELIOCENTRIC, GEOCENTRIC, SELENOCENTRIC, AND PLANETOCENTRIC VALUES
AFCRL-63-705 N64-15813 07-29

DYNAMICAL POLYSYSTEMS AND OPTIMIZATION
N64-16252 08-20

ESTIMATION THEORY FOR DYNAMICAL SYSTEM
AD-417777 N64-16819 08-20

DYNAMICS OF DISPLACEMENT-FORCED THIN PLATES
BSD-TDR-63-110 N64-16826 08-23

DYNAMIC MEASUREMENTS OF PROTECTIVE MASKS AND BACKPACKS
NPR-7 N64-17332 09-17

DYNAMICS OF CHANGES IN CARBON DIOXIDE IN BODY AND BLOOD
N64-17950 10-16

DYNAMIC PROPERTIES OF STELLAR CORONAS & STELLAR WINDS AND INTEGRATION OF HEAT-FLOW EQUATION
N64-18280 10-28

WIND-TUNNEL TESTING OF DYNAMICS OF BLUNT BODY SEPARATION AT HYPERSONIC SPEEDS
ORA-63-13 N64-18644 11-02

FOURIER SERIES SOLUTION TO DYNAMIC PROBLEMS OF ELASTICITY THEORY
FTD-MT-63-134 N64-18682 11-33

BEHAVIOR OF SECOND ORDER DYNAMIC SYSTEM WITHOUT DAMPING UNDER INFLUENCE OF RANDOM PROCESSES
FTD-MT-63-75/162 N64-18760 11-23

SPIN DYNAMICS OF MANNED SPACE STATIONS UNDER EXTERNAL DISTURBANCES & EFFECT OF STABILIZERS
NASA-TR-R-155 N64-19292 11-32

DYNAMIC ANALYSIS OF GENERAL PURPOSE RELAYS AND APPLICATION TO IMPROVEMENT OF IMPULSE RELAYS
N64-19531 12-09

MAGNETOMETER FOR DETERMINATION OF ANGULAR MOTION OF SPINNING BODY IN REGULAR PRECESSION
NASA-TN-D-2284 N64-19707 12-30

DYNAMIC PHENOMENA IN MICROSPHERES FROM THERMAL PROTEINOID
N64-19825 12-16

THEORY OF ELASTICITY AND THERMAL STRESSES - SOLID AND HOLLOW SPHERE DEFORMATION - NONUNIFORM CIRCULAR HEATING - FLATTENING FORCE OF SOLID BEAMS
TM-132 N64-20423 13-20

BIBLIOGRAPHY ON DYNAMIC LOADING
SB-68-53 N64-20532 13-33

FUNCTIONAL DECOMPOSITION FOR DISCRETE DYNAMIC LINEAR SYSTEMS
REPT.-2900-459-R N64-21095 14-20

SPIN-UP STUDY FOR RANGER LANDING SYSTEM
U-2252, VOL. 3 N64-21499 15-32

THERMODYNAMIC & STATISTICAL APPROACH TO NUCLEAR DYNAMIC POLARIZATION
LMF-63/15 N64-21771 15-23

DYNAMICS OF VARIABLE MASS SYSTEMS - NEWTONIAN FORMULATION
MH-TRANS-104 N64-21824 15-23

VIBRATION TEST & DYNAMIC BEHAVIOR OF SATURN SA-6 FLIGHT VEHICLE
NASA-TM-X-53029 N64-22464 15-33

QUANTUM FIELD THEORY AND DYNAMICAL ROLE OF SPIN IN ELEMENTARY PARTICLE PHYSICS
TM-54 N64-22491 15-23

DYNAMICS OF VEHICLES - ORBITAL DECAY
FTD-TT-63-164/162E4 N64-22644 15-02

DYNAMIC ANALYSIS NONROLLING BALLISTIC MISSILE RAPIDLY ASCENDING THROUGH ATMOSPHERE
LR-392 N64-24912 17-02

HISTORY OF BIODYNAMICS
ARL-TDR-63-10 N64-25331 17-16

DYNAMICS OF HIGH POLYMERS
NASA-RP-257 N64-26405 18-07

MORPHOLOGY OF HYDROGEN LINES AND GEOMETRY AND DYNAMICS OF AURORA
AFCRL-64-601 N64-28536 20-12

DYNAMIC BUCKLING OF IMPERFECTION-SENSITIVE STRUCTURES
TR-18 N64-28556 20-33

DIGITAL COMPUTER PROGRAM FOR SOLVING REACTOR KINETICS EQUATIONS
NAA-SR-9943 N64-28668 20-23

DYNAMICS OF BOOST VEHICLES IN PRESENCE OF EXTERNAL EXCITATIONS
NASA-CR-58357 N64-28839 20-33

SPINNING SYMMETRIC BODY TRAVELING AT CONSTANT SPEED IN AERODYNAMIC FORCE FIELD
NASA-CR-58582 N64-28993 20-02

MATHEMATICS OF NONLINEAR DYNAMICS OF THIN WALLED SHELL STRUCTURES
NASA-CR-58571 N64-29687 21-20

FIRST ORDER MAGNETIC PHASE TRANSITIONS - SPIN-FLOPPING
MC-62-49-R3 N64-29905 21-25

RELAXATION TIME OF SPIN-FLOPPING TRANSITION IN CUPROUS CHLORIDE
MC-62-49-R2 N64-30002 21-25

INFLUENCE OF AUTOMATIC PILOT ON FLIGHT SAFETY AND DYNAMICS OF FLEXIBLE AIRCRAFT IN ATMOSPHERIC TURBULENCE
N64-30228 22-04

DYNAMIC SYSTEMS GOVERNED BY LINEAR ORDINARY DIFFERENTIAL EQUATIONS OF FINITE ORDER IN STATE VARIABLES - LINEAR SYSTEM THEORY
NASA-CR-58822 N64-30508 22-20

SOLUTIONS OF EXACT AND APPROXIMATE DYNAMIC EQUATIONS IN LOW THRUST SPACE FLIGHT MECHANICS
NASA-TT-F-9033 N64-31340 22-27

PARAMETERS TO BE SIMULATED IN DYNAMIC TESTING OF SUBLIMING BODIES IN HYPERSONIC FLOW
TR-453 N64-33586 24-02

DIGITAL COMPUTER ANALYSIS OF LAUNCH DYNAMICS OF FLEXIBLE ROCKET VEHICLE
NASA-CR-60021 N64-33619 24-10

DYNAMICS OF ELASTIC CYLINDRICAL SHELL UNDER IMPULSIVE PRESSURE
TDR-469/S5810-12/-1 N64-33797 24-33

DYNAMO THEORY
SELF-EXCITING HOMOGENEOUS DYNAMO FOR MAINTAINING EARTH MAGNETIC FIELD
AFCRL-64-768 N64-33535 24-06

DYNODE
S ELECTRODE
S ELECTRON MULTIPLIER

DYSBARISM
CF NEUROLOGY
CF PHYSIOLOGY
ETIOLOGY OF DYSBARISM - DECOMPRESSION SICKNESS
AD-601600 N64-32400 23-16

DYSPROSIUM
ELECTRICAL RESISTANCE OF BISMUTH, YTTERBIUM, AND DYSPROSIUM
UCRL-11220 N64-17708 09-25

INFRARED EXCITATION OF CALCIUM FLUORIDE CRYSTALS WITH DYSPROSIUM AND FLUORESCENT EMISSION
N64-23002 16-25

OBSERVING MAGNETOSTRICTIVE EFFECT OF SINGLE CRYSTAL OF DYSPROSIUM

NOLTR-64-30 N64-26230 18-25

ENERGY TRANSFER BETWEEN SAMARIUM, EUROPIUM, TERBIUM, AND DYSPROSIUM IONS IN SODIUM RARE EARTH TUNGSTATES N64-27992 20-25

PUMPING OF CALCIUM FLUORIDE-DYSPROSIUM ION LASER USING GALLIUM ARSENIDE DIODES
NASA-CR-58645 N64-29407 21-09

E

E-BAND
LOW NOISE TUNABLE AMPLIFIER EQUIPMENT FOR E-BAND OPERATION
RADC-TDR-63-505 N64-15498 07-09

E LAYER
SA SPORADIC E LAYER
CF IONOSPHERE
RADAR OBSERVATIONS OF METEOR ACTIVITY AND METEOR ROLE IN E-LAYER OF IONOSPHERE N64-10810 02-05

ELECTRON DENSITY PROFILE MEASUREMENTS IN NIGHTTIME E-LAYER USING LANGMUIR PROBE
NASA-CR-52553 N64-11074 02-12

WORLDWIDE E-REGION EFFECTIVE RECOMBINATION COEFFICIENT DETERMINATION - LATITUDE & SEASON - ION CONCENTRATION & ELECTRON DRIFT
AFCRL-63-724 N64-11186 02-12

SPORADIC E-LAYERS PRODUCED BY IONOSPHERIC WIND SHEAR
NASA-CR-55105 N64-12158 03-12

SOLAR FLARE EFFECTS IN D AND E LAYERS OF IONOSPHERE N64-15435 07-12

DETECTION OF SINGLY IONIZED NITRIC OXIDE IN E-REGION OF IONOSPHERE BY GROUND BASED RADAR MASS SPECTROMETRY
AFCRL-63-795 N64-15807 07-21

LOW FREQUENCY IONOSONDE INVESTIGATIONS AND ROCKET MEASUREMENTS IN D-REGION AND LOWER E-REGION
AFCRL-63-924 N64-15952 07-12

POLARIZATION OF RADIO ECHOES FROM HIGH GRADIENT SPORADIC REGION IN E-LAYER N64-19684 12-12

STUDY OF IONOSPHERIC STRUCTURE AND MOTION - THREE ANTENNA DRIFT OBSERVATIONS ON E-REGION
II8-6 N64-21721 15-12

SATELLITE AND ROCKET STUDY OF D AND E LAYERS AND SOLAR RADIATION INTENSITY IN IONOSPHERE
N64-22037 15-29

TABULATIONS OF IONOSPHERIC DATA ON E AND F LAYERS
CPD-1963/4/S/ N64-22255 15-12

RADIO FREQUENCY PROBE FOR ELECTRON DENSITY AND COLLISION FREQUENCY MEASUREMENTS IN D AND E REGIONS OF IONOSPHERE
NASA-CR-56725 N64-27271 19-15

VERTICAL DISPLACEMENT OF SPORADIC E LAYER
NASA-TT-F-8951 N64-30844 22-12

EAR
BLOOD CIRCULATION IN EARS OF DOGS AFTER SPACE FLIGHT N64-11675 03-16

HISTOLOGICAL STUDIES ON INNER EARS OF SQUIRREL MONKEYS
NASA-CR-55517 N64-16328 08-16

STUDY OF VESTIBULAR SUPPRESSION PHENOMENA IN CATS
AMRL-TDR-63-119 N64-16810 08-16

HISTOCHEMICAL AND ELECTRON MICROSCOPIC STUDIES OF GRAVITY RECEPTOR CELLS OF UTRICLE OF GUINEA PIGS SUBJECTED TO RADIAL ACCELERATION
JPRS-23837 N64-18084 10-16

HISTOLOGICAL STUDY OF CHIMPANZEE MIDDLE AND INNER EAR
ARL-TDR-64-1 N64-18650 11-16

MEDICAL RESEARCH IN AUDIOLOGY - FUNCTION OF AUDITORY ANALYZER AND INSTRUMENTS FOR EAR SURGERY
JPRS-24519 N64-20229 13-16

TRANSMISSION LINE ANALOG OF FUNCTIONS OF COCHLEA - TUNE LEARNING MACHINE
AL-TDR-64-108 N64-22510 15-09

NEURAL MECHANISMS FOR RESPONSE OF MIDDLE EAR MUSCLES
REPT.-1128 N64-25125 17-16

ROLE OF PINNA IN HUMAN LOCALIZATION
AD-600151 N64-30491 22-14

IDENTIFICATION OF RUDIMENTARY SENSORY ORGAN AT JUNCTION OF INFERIOR UTRICULAR SINUS AND SEMICIRCULAR CANAL IN MAN AND OTHER MAMMALS - PHYSIOLOGY
NASA-CR-59374 N64-33906 24-16

EARTH
SA GROUND
THEORETICAL SEISMOLOGY AND PHYSICS OF EARTH CORE AND MANTLE
NASA-TT-F-123 N64-10078 01-12

STRUCTURE OF F-LAYER & REASONS FOR CONVECTION IN EARTHS CORE - JEFFRIES EFFECT & GUTENBERG EFFECT
JPRS-20183 N64-10662 01-21

REJECTION OF STRESS DIFFERENCES AS CAUSE OF EARTH FLATTENING
NASA RP-88 N64-11378 02-12

EQUATIONS FOR METEORITES THAT COLLIDE WITH EARTH AND MOON N64-11392 02-05

MECHANISMS FOR CONDENSATION OF INTERPLANETARY DUST AROUND EARTH
MH-TRANS-462 N64-11578 03-05

SOLAR WEATHER - SOLAR MAGNETIC FIELD, WIND, FLARES, ULTRAVIOLET, AND FLUID BETWEEN SUN & EARTH
N64-11727 03-20

STRESS PROPAGATION OF COMPRESSION AND SHEAR WAVES AT DIFFERENT EARTH LEVELS N64-12415 04-23

WATER EXCHANGE BETWEEN EARTH & INTERPLANETARY SPACE
FTD-TT-63-841/1 N64-12619 04-12

DUST NATURE OF LUNAR SURFACE, AND DETERMINATION OF FIGURE OF REGULARIZED GEOID THROUGH GRAVITY ANOMALIES
JPRS-20167 N64-12798 04-01

DETERMINATION OF FIGURE OF REGULARIZED GEOID EARTH BY ANOMALIES OF VERTICAL GRAVITY GRADIENT
N64-12800 04-12

HEAD SHOCK WAVE IN FRONT OF EARTH AND ITS EFFECT ON RADIATION BELTS
JPRS-22759 N64-13164 04-23

SYNTHESIS OF ADENOSINE TRIPHOSPHATE UNDER POSSIBLE PRIMITIVE EARTH CONDITIONS
NASA-RP-94 N64-13168 04-16

HYPOTHESIS ON TEKTITE ORIGIN BY COMET IMPACT WITH EARTH N64-14934 06-05

EARTH STRUCTURE DETERMINED BY MAGNETOTELLURIC SOUNDING N64-16516 08-12

FOSSIL GLASSES PRODUCED BY IMPACT OF METEORITES AND ASTEROIDS WITH PLANET EARTH
N64-16733 08-05

DEVELOPMENT OF EARTH GRAVITATIONAL POTENTIAL FROM SIXTH THROUGH TWELFTH ZONAL HARMONIC
NASA-TM-X-51281 N64-17612 09-12

EFFECT OF MOON TRIAXIAL POTENTIAL & ATTRACTION OF EARTH, SUN, AND PLANTETS ON STABILITY OF LUNAR SATELLITES
NASA-CR-55973 N64-17680 09-29

ASSIGNMENT OF VALUES TO SECOND, THIRD, AND FOURTH HARMONICS OF EARTH POTENTIAL N64-18239 10-29

RARE EARTH, YTTRIUM, AND SCANDIUM ABUNDANCES IN METEORITIC AND TERRESTRIAL MATTER
NASA-CR-50173 N64-18322 10-05

GRAPHIC DESCRIPTION OF GAMMA-RADIATION INTENSITY AS FUNCTION OF ANGLE OF EARTH CENTER FROM EXPLORER XI DATA
NASA-CR-53590 N64-18432 10-28

AGE DETERMINATION OF EARTH MINERALS, CHEMICAL ELEMENTS, & METEORITES BY RADIOACTIVE METHODS - ESTIMATE OF AGE OF EARTH N64-19328 12-12

THEORY OF VERY LOW FREQUENCY RADIO PROPAGATION BETWEEN SPHERICAL CONDUCTING EARTH AND CONCENTRIC ANISOTROPIC IONOSPHERE N64-19694 12-08

THUNDERSTORM EXCITATION OF RESONANT CAVITY BETWEEN EARTH AND IONOSPHERE N64-19703 12-12

EARTH-IONOSPHERE CAVITY RESONANCES AND EFFECT OF LOWER D-LAYER N64-19704 12-12

MAGNETIC FIELD VARIATIONS IN EARTH-IONOSPHERE RESONANT CAVITY N64-19706 12-12

MEASUREMENT OF EARTH ALBEDO, RADIATION BELT ENERGY DISTRIBUTIONS, ELECTRON PRECIPITATION, AND INFRARED RADIATION - SPACE PHYSICS PROGRAM
TDR-169/3260-01/TN-2 N64-19998 12-12

SOLAR PHYSICS AND EFFECTS OF SOLAR PHENOMENA ON EARTH
AFCRL-64-275 N64-21021 14-28

ADVANCES AND PROBLEMS OF COSMOGONY - FORMATION AND INTERNAL STRUCTURE OF STARS, ATMOSPHERE OF MOON, AND PROCESSES IN EARTH N64-21127 14-05

FLIGHT CONDITIONS FROM EARTH TO MARS
FTD-TT-63-93/1&2&4 N64-21659 15-29

COEFFICIENTS OF EXPANSION OF EARTH GRAVITATIONAL POTENTIAL IN SPHERICAL HARMONICS
SSD-TDR-63-167 N64-22325 15-12

EXPERIMENTAL DATA ON EARTH, MOON, AND INTERPLANETARY MAGNETIC FIELDS
NASA-TT-F-8562 N64-22930 16-28

STRUCTRURAL CHARACTERISTICS OF RADIATION FIELD OF PLANET EARTH
NASA-TT-F-8564 N64-23119 16-28

NOCTILUCENT CLOUDS AND COSMIC DUST ON EARTH
JPRS-25011 N64-23514 16-12

ADDITION OF COSMIC MATTER TO EARTH
N64-23516 16-12

ANALYTICAL DETERMINATION OF EARTH VISIBILITY FROM ORBITING SATELLITE - OGO & POGO
NASA-TM-X-55002 N64-23517 16-12

DIRECT HIT ON LUNAR SURFACE FROM EARTH
N64-23642 16-29

DATA TRANSMISSION FROM MOON TO EARTH - SPACE TELEMETRY N64-23643 16-29

RADIO EMISSION FROM SHOCK WAVES
N64-23859 16-28

MODEL FOR DETERMINING RADIATION BALANCE OF EARTH
N64-23861 16-12

MEASUREMENT OF STEADY ELECTRIC CURRENTS IN EARTH CORE
NASA-CR-56447 N64-24038 16-29

TRANSMITTER FOR INVESTIGATING ELECTROMAGNETIC WAVE PROPAGATION IN EARTH
TR-6-60 N64-24207 16-08

HEAT BALANCE OF EARTH N64-24410 17-21

ROLE OF EARTH IN COSMIC RAY ABSORPTION, CREATION OF FORBUSH TYPE EFFECTS, AND IN 27-DAY AND 11-YEAR VARIATIONS N64-24432 17-28

SHORT-PERIOD PULSATION OF EARTH MAGNETIC FIELD DUE TO CORPUSCULAR STEAM INTRUSION ON STRATOSPHERE
N64-24435 17-12

CHEMICAL COMPOSITION OF SUN, EARTH, AND METEORITES
N64-24768 17-29

SHOCK WAVE RADIO EMISSION NEAR EARTH AND IN INTERPLANETARY GAS
NASA-TT-F-8699 N64-25278 17-05

RADIANCE OF EARTH AND ITS LIMB IN MIDDLE ULTRAVIOLET REGION
NASA-TN-D-2355 N64-25712 17-12

EQUATIONS OF MOTION OF ARTIFICIAL SATELLITES WITHIN GRAVITY POTENTIAL OF EARTH
ONERA-TN-111 N64-25850 18-29

COMPOSITION AND ANNUAL ACCRETION OF COSMIC DUST ON EARTH
NASA-TT-F-8698 N64-27146 19-29

INNER STRUCTURE OF EARTH N64-28395 20-12

LUNAR LANDING SITE SELECTION AND VEHICLE GUIDANCE BY EARTH BASED CONTROL N64-29353 21-06

EARTH-MARS BALLISTIC TRAJECTORIES - 1964 TO 1977
NASA-CR-58244 N64-29408 21-29

DESCRIPTION AND APPLICATION OF BALLISTIC TRAJECTORY DATA FOR EARTH-MARS-EARTH MISSION
FZM-4163-1 N64-29607 21-29

SECULAR PERTURBATION OF GRAVITY FIELD BY CONVECTION CURRENTS IN EARTH OUTER CORE
N64-30467 22-12

SECOND-ORDER SOLUTION OF ARTIFICIAL EARTH SATELLITE THEORY WITHOUT AIR DRAG
NASA-TN-D-1752 N64-30610 22-29

CORRELATION OF EARTHSHINE BRIGHTNESS WITH WORLDWIDE WEATHER FOR 1958
SAO SPECIAL REPT.-162 N64-30657 22-12

AGE AND EVOLUTION OF METEORITIC AND TERRESTRIAL MATTER - APPLICATION OF RADIOCHEMICAL METHODS AND ISOTOPIC ANALYSIS FOR AGE DETERMINATIONS
FTD-MT-64-282 N64-30811 22-29

MAGNETIZING FORCE COMPONENTS OF EARTH CONSTANT MAGNETIC FIELD IN ORBITAL COORDINATE SYSTEM
N64-31532 23-12

INFRARED EMISSION SPECTRUM OF ATMOSPHERE AND EARTH
AFCRL-64-567 N64-32205 23-12

SUGGESTIONS FOR OBSERVATIONS OF SUN AND EARTH ECLIPSES FROM MOON
NASA-CR-58778 N64-33180 24-29

SECULAR VARIATION OF TERRESTRIAL MAGNETIC FIELD IN BELGIUM, 1955 - 1960 N64-33256 24-12

PHENOMENA AT BOUNDARY OF EARTH MAGNETOSPHERE
N64-33808 24-12

EARTH ATMOSPHERE
SA IONOSPHERE
ULTRAVIOLET SYNTHESIS OF ADENOSINE TRIPHOSPHATE UNDER POSSIBLE PRIMITIVE EARTH CONDITIONS
NASA-CR-52132 N64-10092 01-12

HIGH VELOCITY HYPERBOLIC REENTRY INTO EARTH ATMOSPHERE
MEMO 3-50000/3M-1576/ N64-10157 01-22

OPTICAL PHENOMENA IN EARTH ATMOSPHERE
N64-10284 01-12

SPECTROGRAPHIC OBSERVATION OF HYDROGEN IN EARTHS ATMOSPHERE N64-10285 01-12

SIMULATION APPARATUS FOR ENTRY OF LONG-RANGE BALLISTIC MISSILES INTO EARTH ATMOSPHERE
NASA-TM-X-51119 N64-10340 01-10

FREE OXYGEN IN EARTH ATMOSPHERE RESULTING FROM PHOTODISSOCIATION OF WATER VAPOR PRIOR TO ORGANIC LIFE
NASA-TT-F-86 N64-10522 01-12

SATELLITE SPACE PROBES FOR PROPERTIES AND SOLAR EFFECT ON EARTH ATMOSPHERE N64-11597 03-01

MODEL OF EQUATORIAL SUMMER ATMOSPHERE FOR STUDY OF INTERACTION WITH SOLAR WIND - WEATHER DISTURBANCE N64-11719 03-28

NEUTRAL HYDROGEN IN EARTH ATMOSPHERE AND INTERPLANETARY SPACE
JPRS-22331 N64-11785 03-12

AERODYNAMIC HEATING OF CONICAL VEHICLES ENTERING EARTH ATMOSPHERE AT SPEEDS GREATER THAN EARTH PARABOLIC SPEED
NASA-TR-R-185 N64-12107 03-30

DETECTORS FOR DETERMINING MICROMETEORITE INFLUX RATE IN EARTH ATMOSPHERE
AFCRL-63-663 N64-13258 04-05

HYDRODYNAMIC PRESSURE FIELD FORECASTING AT ATMOSPHERIC MIDLEVEL FOR ENTIRE EARTH
JPRS-23108 N64-14535 06-21

IONOSPHERIC RESEARCH - PHYSICS, DYNAMICS, & AERONOMIC PROPERTIES OF EARTH & PLANETARY ATMOSPHERE
AFCRL-63-931 N64-14972 06-12

INFRARED RADIATION IN SOLAR & TERRESTRIAL ATMOSPHERES - FIREFLY PROJECT
AFCRL-64-200 N64-15085 07-01

ATMOSPHERIC PHYSICS, ASTROPHYSICS, COSMIC BIOLOGY, ASTRONOMY, AND ROCKET ENGINES - PAST PROGRESS AND PROSPECTIVE DEVELOPMENTS
JPRS-23195 N64-15154 07-29

PLANETARY GEOLOGY, ESCAPE OF HELIUM FROM EARTH ATMOSPHERE, AND HYDROMAGNETIC WAVES IN SPACE
NASA-CR-55384 N64-15182 07-01

ESCAPE OF HELIUM FROM EARTH ATMOSPHERE N64-15184 07-12

PRECIPITATION OF ELECTRONS INTO ATMOSPHERE - INJUN III SATELLITE DATA N64-15304 07-12

FAST-NEUTRON FLUX IN THE ATMOSPHERE
NASA-CR-55374 N64-15306 07-12

APPLICABILITY OF NORMAL DISTRIBUTION LAW TO WIND CIRCULATION IN ATMOSPHERE N64-15410 07-21

OPTICAL PROPERTIES OF EARTH ATMOSPHERE, ATMOSPHERIC RADIATION, AND ACTINOMETRY
JPRS-23547 N64-16542 08-21

BIBLIOGRAPHY - METEOROID HAZARD TO SPACE VEHICLES IN NEAR EARTH ENVIRONMENT
SB-63-58 N64-17331 09-05

LIMITATIONS ON ABILITY TO POSITION AND LOCATE OBJECTS IN SPACE DUE TO DISTORTION BY EARTH ATMOSPHERE - TARGET ACQUISITION
SRA-356 N64-17361 09-12

WIND AND TEMPERATURE DISTRIBUTIONS OBSERVED AT 62 METERS ABOVE EARTH
ERDA-113 N64-17469 09-21

NATURAL RADIOACTIVITY OF SOIL IN RELATION TO CONTAMINATION OF EARTH ATMOSPHERE BY NUCLEAR WEAPONS TESTING
JPRS-23912 N64-17735 09-12

BALANCE OF TROPOSPHERE AND EARTH ATMOSPHERE RADIATION ABSORPTION IN ARCTIC REGION
AD-433672 N64-18221 10-21

SOLAR ACTIVITY EFFECT ON EARTH ATMOSPHERE N64-18527 11-21

SIMULATION OF METEORIC ENTRY INTO EARTH ATMOSPHERE USING STAINLESS STEEL PELLETS
NASA-TN-D-2268 N64-19060 11-30

TURBULENT DIFFUSION IN SURFACE LAYER OF EARTH ATMOSPHERE
JPRS-24490 N64-20201 13-21

TURBULENT DIFFUSION FROM POINT SOURCES IN SURFACE LAYER OF ATMOSPHERE N64-20202 13-21

ATMOSPHERIC PARAMETERS AS FUNCTIONS OF ALTITUDE AND MAGNETIC LATITUDE OF FOUR QUIESCENT EARTH CONDITIONS
REPT.-132 N64-20354 13-32

FAST NEUTRONS IN EARTH ATMOSPHERE - BALLOON FLIGHTS
NASA-CR-56082 N64-20631 13-28

INTERPLANETARY GAS AND EARTHS OUTERMOST ATMOSPHERE N64-20754 14-12

MEASUREMENT OF AERODYNAMIC HEATING ON SHARP CONES ENTERING EARTH ATMOSPHERE
AIAA PAPER-64-252 N64-21541 15-13

DISTRIBUTION OF HELIUM, NITROGEN AND ARGON IN EARTH ATMOSPHERE AT HIGH ALTITUDES N64-21636 15-12

FLUORESCENCE OF EARTH ATMOSPHERE DURING TWILIGHT IN OXYGEN LINE AS RESULT OF RESONANCE ABSORPTION OF SOLAR EMISSION LINE N64-21886 15-12

BALLOON STUDY OF RADIATION DISTRIBUTION IN EARTH SURFACE-ATMOSPHERE SYSTEM N64-22034 15-28

BALLOON FLIGHT ANALYSIS FOR TIME VARIATIONS OF FAST NEUTRON FLUX AT HIGH ALTITUDES
NASA-CR-56298 N64-22455 15-12

PARTIAL REFLECTIONS IN EARTH ATMOSPHERE AND LONG DISTANCE RADIO PROPAGATION
RSIC-166 N64-22915 16-09

DISTRIBUTION OF HELIUM, NITROGEN, AND ARGON IN EARTH ATMOSPHERE TO 430 KILOMETERS
NASA-TT-F-8566 N64-23038 16-12

MASS SPECTROMETRIC MEASUREMENTS OF ATMOSPHERIC DISTRIBUTION OF HELIUM, NITROGEN, OXYGEN AND NITROGEN OXIDE IONS TO 430 KM ALTITUDE
NASA-TT-F-8819 N64-23125 16-12

ATTENUATION AND EMISSION IN EARTH ATMOSPHERE OF COMPLEX OF 60 GC/S OXYGEN LINES
REPT.-5-53 N64-23145 16-12

DETERMINATION OF SOME PARAMETERS OF EARTH ATMOSPHERE FROM SATELLITE MOTION
RAE-TRANS-1059 N64-23170 16-12

THERMAL BALANCE OF EARTH SURFACE AND ATMOSPHERE N64-23860 16-12

OPTIMIZING RECOVERY OF INTERPLANETARY SPACECRAFT THROUGH EARTH ATMOSPHERE
VKI-TN-17 N64-25796 17-30

ELECTRONIC DIGITAL COMPUTERS FOR CALCULATION OF ACOUSTIC-GRAVITY WAVE PROPAGATION IN EARTH ATMOSPHERE N64-25956 18-05

DECELERATION AND MASS LOSS OF BODY OF ABLATING MATERIAL DURING HIGH SPEED MOTION IN EARTH ATMOSPHERE
P-2900 N64-25983 18-13

EFFECT OF EARTH SHADOW ON TEMPERATURE OF IRON METEOROID BEFORE ENTERING EARTH ATMOSPHERE
NASA-RP-258 N64-26078 18-05

RADIATIVE HEATING OF VEHICLES ENTERING EARTH ATMOSPHERE N64-26157 18-13

THEORY OF ATMOSPHERIC TIDES FOR EARTH APPLIED TO MARS ATMOSPHERE
NASA-CR-97 N64-28316 20-12

TABULATION OF OPTICAL PATH DATA FOR FOLLOWING RAY THROUGH EARTH ATMOSPHERE - DIOPTRIC TABLES
NAVWEPS-8504 N64-29306 21-12

FREE OSCILLATION FREQUENCIES OF EARTH ATMOSPHERE
NASA-TT-F-8950 N64-30843 22-12

METEOROLOGICAL MEASUREMENT OF CONDENSATION NUCLEI, IONIZATION DISTRIBUTION, AND TRACE GAS IMPURITIES IN EARTH ATMOSPHERE
AD-420435 N64-31177 22-21

METEOROLOGICAL CONDITIONS AFFECTING INFRARED SPECTRAL TRANSMISSIVITY OF EARTH ATMOSPHERE
ERDA-186 N64-32039 23-21

NUMERICAL METHODS FOR WEATHER FORECASTING - DIFFERENTIAL EQUATIONS FOR DYNAMIC PROCESSES IN ATMOSPHERE
AD-601752 N64-32060 23-22

DETERMINATION OF EARTH ATMOSPHERE PARAMETERS BY SATELLITE MOTIONS
NASA-TT-F-8974 N64-33382 24-12

EARTH AXIS
RADIO ASTRONOMY - TELESCOPE POLAR AXIS, POLARIMETER, LUNAR EXPERIMENTS, AND RADIOMETER
RR-R153 N64-32216 23-08

EARTH CRUST
MAGNETOTELLURIC EXPLORATION AND PROFILING OF EARTH CRUST N64-10164 01-12

FORMATION FACTORS, COMPOSITION, AND CHEMICAL & PHYSICAL NONUNIFORMITIES OF EARTH CRUST N64-10282 01-12

SOVIET GEOPHYSICAL RESEARCH PAPERS ON GRAVITY VARIATIONS, EARTH CRUST STUDY, AND PLANETARY GEOPHYSICS
JPRS-21967 N64-10384 01-12

WELL DRILLING INTO EARTH CRUST
JPRS-18130 N64-10743 02-12

INDIAN OCEAN AREA CRUSTAL STRUCTURE STUDY USING SEISMO-ACOUSTIC RADIOBUOYS
JPRS-18425 N64-10764 02-12

DRILLING OF EARTH CRUST AND MANTLE FOR COMPOSITIONAL AND PHYSICAL STUDIES
JPRS-19887 N64-10836 02-12

SUPERDEEP WELL FOR STUDY OF EARTHS CRUST IN AZERBAYDZHAN
JPRS-19264 N64-11065 02-12

MAGNETOTELLURIC PROFILING OF UPPER LAYERS OF EARTHS CRUST IN POLISH-LITHUANIAN DEPRESSION - GEOLOGICAL SURVEY N64-11486 03-12

CHEMISTRY OF EARTHS CRUST
JPRS-22225 N64-12140 03-07

SURFACE WAVE DIFFRACTION BY SYMMETRIC CRUSTAL DISCONTINUITIES - SEISMOLOGY
AFCRL-63-719 N64-13836 05-12

GEOPHYSICAL STRUCTURE OF EARTH CRUST IN TRANSITION ZONE FROM ANTARCTIC CONTINENT TO INDIAN OCEAN
JPRS-22888 N64-13948 05-12

STRATIFICATION OF EARTH CRUST AND UPPER MANTLE
JPRS-22886 N64-14521 06-12

THICKNESS OF EARTH CRUST AND DEPTH OF MOHOROVICIC DISCONTINUITY IN ANTARCTIC REGION
JPRS-23107 N64-14534 06-12

SCHEMATIC MAP OF STRUCTURE OF EARTH CRUST IN SIBERIA AND FAR EAST
JPRS-23133 N64-14537 06-12

VERTICAL MOVEMENTS OF EARTH CRUST AS INDICATED BY DATA ON EUROPEAN ISOSTATIC ANOMALIES
JPRS-23103 N64-14543 06-12

RECENT MOVEMENTS OF EARTH CRUST N64-16452 08-12

CRIMEAN GEOPHYSICAL POLYGON FOR STUDYING ABYSSAL STRUCTURE OF EARTH CRUST AND RECENT TECTONIC MOVEMENTS N64-16458 08-12

RECENT TECTONIC MOVEMENTS OF EARTH CRUST N64-16459 08-12

MAGNETOTELLURIC INVESTIGATION OF EARTH CRUST N64-16515 08-12

DISTRIBUTION OF RADIOACTIVE MATERIAL AND HEAT FLOW THROUGH EARTH CRUST
NASA-CR-55852 N64-16722 08-12

GEOCHEMISTRY - STUDY OF ORIGIN & DISPERSION OF CHEMICAL ELEMENTS THROUGH EARTH CRUST
FTD-TT-62-1314/1&4 N64-21919 15-12

MAGNETIC SURVEYING OF EARTH CRUST
AID-P-64-38 N64-23018 16-12

NOCTILUCENT CLOUDS IN UPPER ATMOSPHERE AND GEOLOGICAL DEVELOPMENT OF EARTH CRUST
JPRS-24970 N64-24557 17-12

CYCLICAL DEVELOPMENT OF EARTH CRUST STRUCTURE N64-24559 17-12

FORMATION AND DEVELOPMENT OF EARTH CRUST, EVOLUTION OF EARTH ATMOSPHERE, & TECTONIC MOVEMENT N64-24772 17-29

EFFECTS OF LAYERING IN EARTH CRUST ON DILATATIONAL WAVES - SEISMOLOGY
TR-3 N64-29099 21-12

STRESS AND LOAD PRODUCED IN EARTH CRUST AND MANTLE BY DENSITY DISTRIBUTION IRREGULARITIES AND TECTONIC MOVEMENTS OF EARTH
NASA-CR-56228 N64-30520 22-12

CONVECTION IN VISCOELASTIC PLASTIC MODEL OF EARTH CRUST AND MANTLE
MD-64-14/1/ N64-30983 22-12

RAYLEIGH WAVES IN VISCOELASTIC-PLASTIC MODEL OF EARTH CRUST AND MANTLE
MD-63-4 N64-32199 23-12

EARTH CURRENT
SA GEOELECTRICITY
SA TELLURIC CURRENT
CONDUCTIVITY & DEPTH OF NONCONDUCTING STRATUM FOR CYLINDRICAL MODEL OF EARTH, CALCULATED FROM GEOMAGNETIC VARIATION DATA N64-10280 01-12

EARTH CURRENT DETECTION, PROFILING, AND SOUNDING N64-16519 08-12

PULSATIONS OF GEOMAGNETIC FIELD AND EARTH CURRENTS USED FOR GEOPHYSICAL EXPLORATION N64-16520 08-12

MAGNETOMETER, PHOTOMETER, AND EARTH CURRENT OBSERVATIONS IN SWEDEN
AFCRL-64-245 N64-21514 15-12

CATALOG OF GEOMAGNETIC DATA AND EARTH CURRENT MEASUREMENTS N64-22484 15-12

SOLAR INDUCED MAGNETIC VARIATIONS, TELLURIC CURRENTS, IONOSPHERIC ABSORPTION, VISIBLE AURORAS, AND X-RAYS
UAG-R146, PT. 2 N64-27538 19-12

GEOMAGNETISM, IONOSPHERIC ABSORPTION, AURORAL RADAR ECHOS, RADIO WAVE PROPAGATION, MICROPULSATIONS & EARTH CURRENTS
AD-602884 N64-30565 22-12

EARTH MANTLE
THEORETICAL SEISMOLOGY AND PHYSICS OF EARTH CORE AND MANTLE

NASA-TT-F-123 N64-10078 01-12

ELASTIC MODELS OF EARTH MANTLE CORRESPONDING TO VARIATIONS IN EXTERNAL GRAVITY FIELD
NASA-RP-59 N64-10292 01-12

WEATHER CONTROL AND CLOUD PRODUCTION BY HIGH SPEED AIR HEATING, AND EXPLORATION OF EARTH MANTLE AND CRUST INTERIOR BY BOREHOLES
JPRS-18235 N64-10573 01-01

DRILLING OF EARTH CRUST AND MANTLE FOR COMPOSITIONAL AND PHYSICAL STUDIES
JPRS-19887 N64-10836 02-12

STRATIFICATION OF EARTH CRUST AND UPPER MANTLE
JPRS-22886 N64-14521 06-12

DENSITY AND COMPRESSIBILITY OF EARTH MANTLE
N64-21128 14-05

STRESS AND LOAD PRODUCED IN EARTH CRUST AND MANTLE BY DENSITY DISTRIBUTION IRREGULARITIES AND TECTONIC MOVEMENTS OF EARTH
NASA-CR-56228 N64-30520 22-12

CONVECTION IN VISCOELASTIC PLASTIC MODEL OF EARTH CRUST AND MANTLE
MD-64-14/1/ N64-30983 22-12

RAYLEIGH WAVES IN VISCOELASTIC-PLASTIC MODEL OF EARTH CRUST AND MANTLE
MD-63-4 N64-32199 23-12

EARTH MOON SYSTEM
SMALL-BODY MOTION IN VICINITY OF EARTH-MOON SYSTEM STABLE LIBRATION POINTS
NASA-TR-R-160 N64-15163 07-29

POSITION-VELOCITY EPHEMERIDES OF VENUS AND EARTH-MOON SYSTEM USING PERTURBATION METHODS
NASA-CR-53617 N64-18419 10-05

SCALE FACTOR FOR CONVERSION OF LUNAR EPHEMERIS FROM EARTH RADIUS TO KILOMETERS
NASA-CR-56045 N64-20580 13-23

PERIODIC EARTH-MOON ORBITS IN RESTRICTED THREE BODY PROBLEM
NASA-TM-X-53108 N64-29729 21-29

EARTH ORBIT
LONG-TERM EVOLUTION OF CIRCULAR NEAR-EQUATORIAL ORBITS AT MEDIUM DISTANCES FROM EARTH
RAE-TN-SPACE-46 N64-13363 04-29

ADAPTIVE CONTROL OF SATURN V ASCENT TRAJECTORY TO EARTH ORBIT N64-16522 08-22

GUIDANCE EQUATIONS FOR SATURN V THIRD STAGE POWERED TRANSITION FROM EARTH ORBIT TO EARTH-MOON TRAJECTORY N64-16523 08-22

SPACE ENVIRONMENT EFFECTS ON STORED HUMAN BLOOD IN EARTH ORBIT
SSD-TDR-64-1 N64-19184 11-16

MECHANICS AND GEOMETRY OF GENERAL ORBIT CHANGE OF EARTH SATELLITE ORBIT CAUSED BY SINGLE IMPULSE - DIGITAL COMPUTER PROGRAM
ESD-TDR-63-481 N64-19772 12-29

RADAR DATA OF METEOR DISTRIBUTION AROUND EARTH ORBIT N64-22080 15-29

INTERMEDIATE ORBITS OF SATELLITES - ANALYTICAL EXPANSIONS FOR COSMIC COORDINATES OF SATELLITES N64-23853 16-29

SOLAR SAIL - OPTIMUM GUIDANCE FOR FLIGHTS FROM ORBIT OF EARTH TO ORBITS OF OTHER PLANETS N64-23857 16-29

BIOMEDICAL AND HUMAN FACTORS FOR MANNED EARTH ORBITING STATION
NASA-CR-56021 N64-25950 18-14

EFFECT OF PRECESSION OF NEAR-EARTH ORBITS ON TIMING OF INPLANE LAUNCHING FOR NODAL ENCOUNTER WITH MOON
NASA-TN-D-2442 N64-27975 20-29

EARTH RADIATION
INFRARED RADIATION AND THERMAL RADIATION RESULTS OF ROCKET MEASUREMENTS OF EARTH RADIATION
JPRS-17588 N64-10701 02-23

TRANSISTORIZED RADIOMETERS AND HIGH ALTITUDE EARTH AND SOLAR RADIATION MEASUREMENTS
AFCRL-63-911 N64-16661 08-15

CONFIRMATION OF THEORETICAL CALCULATION OF EARTH RADIANCE BY TIROS VII METEOROLOGICAL SATELLITE DATA
NASA-RP-163 N64-20016 13-12

RADIANCE OF EARTH IN WAVELENGTH INTERVALS AS OBSERVED FROM HIGH ALTITUDES
DRI-2149 N64-20106 13-20

STRUCTURAL CHARACTERISTICS OF RADIATION FIELD OF EARTH N64-21631 15-12

EARTH RADIATION MEASUREMENTS BY METEOROLOGICAL SATELLITES
NASA-TT-F-8563 N64-23118 16-22

ALBEDO AND EARTH RADIATION DATA OBTAINED FROM ORBITING SOLAR OBSERVATORY EMISSIVITY SENSORS
AIAA PAPER-64-317 N64-23218 16-28

MEASUREMENT OF EARTH RADIATION EMISSION FROM SATELLITE
EK-ARD-ED-995 N64-26673 18-12

EARTH SHAPE
ULTRASONIC WAVE & MICROWAVE RADIO COMMUNICATION TRANSMITTER SITE SELECTED BY LIGHT ILLUMINATION AND DIFFRACTION ON EARTH SHAPE
FTD-TT-64-30/162 N64-22158 15-08

EARTH OBLATENESS AND SUN AND MOON GRAVITATION EFFECTS ON SATELLITE ORBIT PERTURBATIONS
RAE-TN-SPACE-52 N64-23268 16-29

TRIAXIALITY OF EARTH FROM OBSERVATIONS ON DRIFT OF SYNCOM II SATELLITE - LONGITUDINAL DEPENDENCE OF EARTH GRAVITATIONAL FIELD
NASA-TM-X-55003 N64-23935 16-01

COMPUTING SATELLITE POSITION IN LOW-INCLINATION, LOW-ECCENTRICITY ORBITS INCLUDING OBLATE-EARTH CAUSED PERTURBATIONS
ESD-TDR-63-443 N64-31966 23-29

EARTH SURFACE
SECOND ORDER PERTURBATIONS IN GRAVITATIONAL FIELD CORRELATION WITH HEAT FLOW DISTRIBUTION ON EARTH SURFACE
NASA-CR-52496 N64-10601 01-13

COORDINATE SYSTEM FOR SURFACE REPRESENTATION OF TOPOGRAPHY OF EARTH SURFACE - CLIMATOLOGY N64-11605 03-21

BOUNDARY CONDITIONS AT EARTH SURFACE DURING ATMOSPHERIC DIFFUSION PROCESS
E-T-G-63-26 N64-11938 03-12

AMPLITUDE & PHASE OF RADIO WAVES PROPAGATING ALONG FLAT INHOMOGENEOUS EARTH SURFACE N64-12728 04-08

FORMATION OF SIGNAL SPECTRA REFLECTED FROM EARTH SURFACE - RADAR SCANNING WITH CONTINUOUS WAVES N64-15165 07-08

EARTH MEASUREMENT - HISTORY, TRIANGULATION, LEVEL GAUGE, ASTRONOMIC-GEODETIC SURVEYING, DETERMINING GEOID, AND GRAVIMETRY N64-16201 08-12

EQUATIONS FOR DETERMINATION OF EFFECTS OF ATMOSPHERIC REFRACTION ABOUT EARTH SURFACE N64-19082 11-08

GEOPHYSICS - ORIGIN OF EARTH OCEANS AND CONTINENTS N64-19327 12-12

BALLOON STUDY OF RADIATION DISTRIBUTION IN EARTH SURFACE-ATMOSPHERE SYSTEM N64-22034 15-28

EQUATORIAL LOCI OF MAGNETIC FIELD OF EARTH AND COSMIC RAY PARAMETERS
AFCRL-64-174 N64-22609 15-12

THERMAL BALANCE OF EARTH SURFACE AND ATMOSPHERE N64-23860 16-12

EFFECTS OF ATMOSPHERIC REFRACTION, ATMOSPHERIC ATTENUATION, AND EARTH SURFACE ON RADAR RANGE N64-24640 17-09

ANNUAL VARIATION OF RADIANT FLOW EFFECT ON EARTH SURFACE HEAT EXCHANGE N64-24801 17-21

MEASUREMENT OF EARTH SURFACE TEMPERATURE FROM AIRCRAFT
E-T-G-63-34 N64-24953 17-12

ENERGY EXCHANGE AND CONVERSION AT EARTH SURFACE N64-28616 20-21

TEMPERATURE & SPECTRAL EMISSIVITY CHARACTERISTICS OF CLOUD TOPS AND EARTH SURFACE
NASA-CR-58346 N64-29504 21-21

EQUATIONS FOR PREDICTING KINETIC TEMPERATURE OF AEROSPACE ENVIRONMENT FROM 100 TO 60,000 KILOMETERS ABOVE EARTH SURFACE
NASA-TM-X-53104 N64-31550 23-12

BOUGER AND ISOSTATIC METHODS FOR EVALUATING GRAVITATIONAL ANOMALIES ON EARTH SURFACE
AFCRL-64-576 N64-31991 23-12

RADIO FREQUENCY COMPONENTS, SPACE & EARTH SURFACE TECHNIQUES & EQUIPMENT, ANALYSIS, RADAR, AND ENGINEERING
ESD-TDR-64-336 N64-32094 23-08

COMPUTER PROGRAM TO FIND PROJECTION OF SATELLITE ON SURFACE OF ROTATING EARTH AND VEHICLE-SUN ORIENTATION
R64SD42 N64-32851 24-29

GEOMAGNETIC FIELD BENEATH EARTH SURFACE AND ESTIMATES OF LUNAR AND PLANETARY FIELDS
P-2978 N64-33012 24-12

EARTHQUAKE
SA SEISMIC WAVE
MECHANISM OF EARTHQUAKE FOCI DETERMINATION USING S-WAVE DATA
AFCRL-63-797 N64-13660 05-12

EARTHQUAKES & SEISMOLOGICAL STUDY OF EARTH CORE
JPRS-23102 N64-14533 06-12

MATHEMATICAL MODEL OF EARTHQUAKE SOURCES TO DELIVER SAME SEISMIC WAVE PATTERNS
AFCRL-64-211 N64-14660 06-12

MEASUREMENTS OF SEISMIC WAVE ATTENUATION THROUGH SEDIMENTARY ROCK - EARTHQUAKES
JPRS-23128 N64-14711 06-12

METHOD FOR DETERMINING EPICENTERS OF DISTANT EARTHQUAKES
JPRS-23770 N64-17499 09-12

SEISMIC DISTINCTIONS OF EARTHQUAKES AND NUCLEAR EXPLOSIONS
AD-442254 N64-28623 20-25

SEISMOGRAPHIC METHODS OF RECORDING EARTHQUAKE MAGNITUDES
AFCRL-64-520 N64-30173 21-12

SEISMIC EVENT MAGNITUDE DETERMINATION - FACTORS AFFECTING MAGNITUDE SCALES FOR EARTHQUAKES
REPT.-4410-71-X N64-30378 22-12

HISTORICAL BACKGROUND OF MAGNITUDE SCALES FOR INVESTIGATION OF EARTHQUAKES - SEISMOLOGICAL PHENOMENA N64-30379 22-12

RUSSIAN DEVELOPMENT OF MAGNITUDE AND ENERGY SCALES FOR SEISMOLOGICAL MEASUREMENT OF EARTHQUAKES N64-30380 22-12

WORLDWIDE SEISMOLOGICAL COLLECTION PROGRAM TO DETERMINE EARTHQUAKE MAGNITUDES AT SHORT DISTANCES N64-30382 22-12

LIMITATION OF OBSERVATORY MAGNITUDE CORRECTION OF SEISMOGRAPHS FOR DISTANT EARTHQUAKES N64-30383 22-12

SEISMICITY OF EARTH BASED ON SMALLER MAGNITUDE SHOCKS N64-30384 22-12

MAGNITUDE DETERMINATION METHODS FOR SEISMOGRAPH SYSTEMS - EVALUATION OF EARTHQUAKE DATA N64-30385 22-12

RELATIONSHIP BETWEEN MAGNITUDE SCALES FOR SMALL EARTHQUAKES AS ANALYZED FROM WORLDWIDE SEISMOGRAPHIC RECORDINGS
AFTAC-TR-VU-63-4 N64-30386 22-12

FACTORS AFFECTING RECORDED AMPLITUDES OF SEISMIC WAVES FROM LOCAL EARTHQUAKES N64-30387 22-12

AMPLITUDE VARIATIONS IN SEISMOGRAPHIC RECORDINGS OF DISTANT EARTHQUAKES N64-30388 22-12

EFFECTS OF GEOLOGICAL AND REGIONAL FACTORS ON MAGNITUDE VALVES FOR SINGLE EARTHQUAKE
TR-64-1, PT. 1 N64-30389 22-12

HIGH EXPLOSIVE DETONATION FOR CALIBRATION OF EARTHQUAKE AND AFTERSHOCK RECORDING INSTRUMENTS - SEISMOLOGY
AFCRL-64-659 N64-33308 24-12

ECCENTRICITY
CRITICAL INCLINATION OF CLOSE EARTH SATELLITES FOR CASE OF ASYMMETRICAL POTENTIAL OF MAIN BODY AND SMALL ECCENTRICITY - PECULIAR LIBRATION
NASA-RP-54 N64-10177 01-22

COSMOLOGY - STELLAR EVOLUTION, GROUPS OF MAIN SEQUENCE STARS, ECCENTRICITY OF ELLIPTICAL ORBITS, AND INTERSTELLAR MATERIAL
JPRS-24260 N64-19342 12-05

BEARING CLEARANCE & MASS ECCENTRICITY EFFECT ON ROTOR VIBRATION N64-23566 16-17

INTERMEDIATE ORBITS OF SATELLITES WITH SMALL ECCENTRICITY N64-23854 16-29

ECHO
SA RADAR ECHO
CF ANECHOIC CHAMBER
METEOR TRAIL RADAR ECHOES
AFCRL-63-787 N64-12266 03-29

ECHO AREA FOR N-LAYER PLASMA CYLINDER AND SPHERE
AFCRL-63-387 N64-12606 04-24

PHOTOELASTIC STRESS MEASUREMENT OF ULTRASONIC ECHO PATTERNS IN CIRCULAR GLASS PLATES OF VARIOUS SIZES AND SHAPES
WAL-TR-143.5/2 N64-13725 05-23

HIGH FREQUENCY TRANSMITTER FOR IONOSPHERIC ELECTRON DENSITY STUDY BY MOON ECHOES
NRL-5968 N64-15130 07-08

POLARIZATION OF RADIO ECHOES FROM HIGH GRADIENT SPORADIC REGION IN E-LAYER N64-19684 12-12

RADAR DETECTION OF LUNAR ECHOES
ESD-TDR-63-582 N64-19870 12-29

MESOSCALE STUDIES OF ECHO MOTION AND WIND PATTERN IN SUBTROPICS
REPT.-4 N64-20150 13-21

ECHOS AT GREAT DISTANCE OBSERVED ON IONOGRAMS OF ALOUETTE SATELLITE
NASA-TT-F-8934 N64-26930 18-08

SPIN ECHO PHENOMENA - MEASUREMENT OF NUCLEAR MAGNETIC RELAXATION & MICROSTRUCTURE OF MOLECULES,

APPLICATION IN PREPARATION OF DELAY LINES & STORAGE UNITS N64-29055 21-23

GEOMAGNETISM, IONOSPHERIC ABSORPTION, AURORAL RADAR ECHOS, RADIO WAVE PROPAGATION, MICROPULSATIONS & EARTH CURRENTS AD-602884 N64-30565 22-12

AXIAL ECHO AREA OF PERFECTLY CONDUCTING PROLATE SPHEROID USING IMPULSE APPROXIMATION REPT.-1774-1 N64-32505 23-08

ELECTRONIC SPIN ECHO RESONANCE PHENOMENA IN PARAMAGNETIC SYSTEMS REPT.-3-53-64-1 N64-33643 24-25

ECHO I CARRIER ROCKET
SATELLITE OBSERVATIONS OF ECHO I, ECHO I ROCKET, EXPLORER VIII, AND EXPLORER IX NASA-CR-59142 N64-33117 24-08

ORBITAL ELEMENTS IN 1962 FOR VANGUARD, EXPLORER, TRANSIT, INJUN, MIDAS, AND TELSTAR SATELLITES AND FOR ECHO I GARRIER ROCKET - EPHEMERIDES NASA-CR-58841 N64-33182 24-08

ECHO I SATELLITE
SATELLITE OBSERVATIONS OF TRANSIT 1B, ECHO I, AND EXPLORER IX SATELLITES NASA-CR-55089 N64-12100 03-32

ORBITAL ELEMENTS FOR EXPLORER AND VANGUARD SATELLITES AND ECHO I SATELLITE NASA-CR-55853 N64-16721 08-32

SUBLIMING COMPOUND USED AS INFLATION SYSTEM FOR ECHO I SATELLITE NASA-TN-D-2194 N64-22020 15-32

PHOTOMETRY OF SURFACE PROPERTIES OF ECHO I NASA-CR-58290 N64-29572 21-08

SIMULTANEOUS TRACKING OF ECHO I SATELLITE FOR GEODETIC PURPOSES - CELESTIAL TRIANGULATION NASA-TT-F-8954 N64-30847 22-08

SATELLITE OBSERVATIONS OF ECHO I, ECHO I ROCKET, EXPLORER VIII, AND EXPLORER IX NASA-CR-59142 N64-33117 24-08

ECHO II SATELLITE
ECHO II COMMUNICATIONS SATELLITE LAUNCHING N64-13203 04-32

RADAR REFLECTION CHARACTERISTICS OF ECHO II SATELLITE, DODECAHEDRON BALLOONS AND SPHERICAL CAP NASA-CR-53827 N64-19618 12-32

STEREOPHOTOGRAPHY OF ECHO II BALLOONS FOR DETERMINATION OF DEVIATION FROM SPHERICITY NASA-TM-X-51654 N64-20005 13-32

MEASUREMENT OF RADAR REFLECTION PROPERTIES OF ECHO PROJECT BALLOON - FULL-SCALE MODEL OF ECHO II SATELLITE N64-24294 17-08

BUCKLING OF ECHO A-12 PASSIVE COMMUNICATIONS SATELLITE NASA-TN-D-2353 N64-25913 18-34

MECHANICAL PROPERTIES OF ECHO II SATELLITE LAMINATES NASA-TN-D-2367 N64-26543 18-18

ABSORPTANCE AND EMITTANCE CHARACTERISTICS OF AMORPHOUS PHOSPHATE COATINGS APPLIED TO ALUMINUM FOIL SUBSTRATE - THERMAL CONTROL OF ECHO II SATELLITE NASA-RP-303 N64-28752 20-19

CROSS SECTION MEASUREMENTS OF ECHO II SATELLITE BY MILLSTONE L-BAND RADAR ESD-TDR-64-43 N64-30037 21-08

EPHEMERIS OF ECHO II SATELLITE OBSERVATIONS N64-30861 22-08

ELECTRON RADIATION EFFECT ON PHYSICAL PROPERTIES OF ECHO II LAMINATE NASA-TN-D-2207 N64-32836 24-21

ECHO PROJECT
COMMUNICATIONS SATELLITE TECHNOLOGY - ECHO, RELAY, AND SYNCOM PROJECTS N64-30342 22-32

ECHO SATELLITE
PERFORMANCE OF LASER OPTICAL COMMUNICATION SYSTEM FOR USE WITH ECHO SATELLITE N64-13427 05-25

BIBLIOGRAPHY ON ECHO COMMUNICATIONS SATELLITE AD-422849 N64-33847 24-32

ECHO SUPPRESSION
S SUPPRESSOR
S SWITCH
S VOICE COMMUNICATION

ECLIPSE
SA SOLAR ECLIPSE
THREE-COLOR PHOTOMETRY OF LUNAR MARE DURING LUNAR ECLIPSE SUI-64-19 N64-24069 16-23

ECLIPSE FRACTIONS FOR SUN-SYNCHRONOUS ORBITS SSD-TDR-64-100 N64-26200 18-29

ECLIPSING BINARY STAR
MACHINE REDUCTION, COMPUTATION, AND ANALYSIS OF LIGHT CURVES OF ECLIPSING BINARY STAR SYSTEMS R64SD8 N64-23363 16-20

ECOLOGICAL SYSTEM
SA CLOSED ECOLOGICAL SYSTEM
OPTIMUM LIGHT ARRANGEMENT FOR PROMOTING ALGAE GROWTH, WASTE TREATMENT UNIT DEVELOPMENT, AND MICROTERELLA ADVANCED MODEL DESCRIPTION SERL-64-5 N64-29906 21-16

FRESH-WATER, BRACKISH-WATER, AND MARINE ECOLOGY OF FLORIDA EVERGLADES ML-63609 N64-30195 21-16

ECOLOGY
RADIOACTIVE CARBON-14 FOR AQUATIC ECOLOGY STUDY - HYDROBIOLOGY JPRS-20614 N64-10593 01-16

ECOLOGIC RELATIONSHIPS BETWEEN BACTERIA AND ALGAE IN PHOTOSYNTHETIC GAS EXCHANGERS NASA-CR-55423 N64-16325 08-16

ANIMAL POPULATION AND ECOLOGY AT ATOMIC POWER-PLANTS TID-19562 N64-16554 08-16

GEOCHEMICAL ECOLOGY OF INTERRELATIONSHIPS OF LIVING ORGANISMS WITH ENVIRONMENTAL FACTORS JPRS-24978 N64-21481 14-16

COLLISIONS IN GASES, MAGNETIC SUSCEPTIBILITY OF BERYLLIUM, REACTIONS OF ALLYLIC ALCOHOLS, ACTIVITY COEFFICIENTS, BIOLOGICAL EFFECTS OF RADIATION, AND ECOLOGY OF DRAINAGE AREA NASA-CR-58839 N64-33048 24-07

ECONOMICS
AERODYNAMIC AND ECONOMIC CHARACTERISTICS OF IL-62 TURBOJET PASSENGER AIRCRAFT N64-10775 02-04

CYBERNETICS, SOCIAL SCIENCES, AND ECONOMICS JPRS-18570 N64-10779 02-01

ROLE OF COMPUTERS IN INDUSTRY & ECONOMICS JPRS-21839 N64-10845 02-20

SIGNIFICANCE OF CYBERNETICS IN SCIENCE, ECONOMY, & TECHNOLOGY JPRS-18033 N64-11024 02-09

DYNAMIC COMPUTER PROGRAM FOR ECONOMICS PROBLEM - RELATION OF PRODUCTION, PRODUCERS, AND CAPITAL N64-11034 02-20

SPACE PROGRAM ECONOMIC ASPECTS - INDUSTRY, SPACE SCIENCE & TECHNOLOGY, EDUCATION, AND METHODS FOR CLOSING GOVERNMENT-INDUSTRY GAP N64-11400 02-01

USE OF SPACE AGE SCIENCE AND TECHNOLOGY TO SOLVE SOCIOECONOMIC PROBLEMS OF METROPOLITAN AREAS RESULTING FROM INDUSTRIAL GROWTH
NASA-SP-37 N64-11502 03-01

SPACE AGE TECHNIQUES AND SCIENCE FOR METROPOLITAN AREA SOCIOECONOMIC PROBLEMS N64-11503 03-01

SPACE TECHNOLOGY, THE SPACE PROGRAM, AND SOCIO-ECONOMIC PROBLEMS OF METROPOLITAN AREAS N64-11504 03-01

SPACE SCIENCE AND TECHNOLOGY AND SOCIOECONOMIC PROBLEMS N64-11507 03-01

CHANGES IN INDUSTRY AND ECONOMICS N64-11508 03-01

SCIENCE, TECHNOLOGY, GROWTH OF INDUSTRY, AND SOCIOECONOMIC PROBLEMS N64-11509 03-01

FACTORS LIMITING TRANSFER OF TECHNOLOGY IN SECTORS OF THE ECONOMY N64-11510 03-01

EXPANSION OF SCIENCE, GROWTH OF THE ECONOMY, POLITICS AND SOCIOLOGY N64-11511 03-01

INTEGRATION OF EDUCATION, INDUSTRY, GOVERNMENT, & RESEARCH TO SOLVE SOCIOECONOMIC PROBLEMS N64-11512 03-01

SOCIOECONOMIC PROBLEMS ARISING FROM ADVANCES IN SCIENCE & TECHNOLOGY AND THE SPACE PROGRAM N64-11513 03-01

APPLICATION OF SPACE AND SCIENTIFIC TECHNOLOGY TO SOCIOECONONOMIC PROBLEMS OF METROPOLITAN AREA OPERATIONS N64-11515 03-01

COMMUNICATION CHANNEL BETWEEN THE LABORATORY, INDUSTRY, AND THE COMMUNITY TO SOLVE SOCIOECONOMIC PROBLEMS N64-11517 03-03

EXPANDING TECHNOLOGY AND IMPLICATIONS OF SOCIO-ECONOMIC PROBLEMS OF METROPOLITAN AREAS N64-11518 03-01

EFFECTS OF AEROSPACE INDUSTRY MANPOWER AND PRODUCTION DEMANDS ON CIVIL INDUSTRY AND THE COMMUNITY N64-11519 03-01

SPACE TECHNOLOGY AND SCIENTIFIC TECHNIQUES IN THE SOLUTION OF SOCIOECONOMIC PROBLEMS OF INDUSTRIAL METROPOLITAN AREAS N64-11520 03-01

THREE-STAGE LEAST SQUARES METHOD FOR ESTIMATION OF COEFFICIENTS OF SIMULTANEOUS LINEAR EQUATIONS IN ECONOMICS
RM-3557-PR N64-11891 03-20

VON NEUMANN ECONOMICAL BALANCED GROWTH THEOREM
AD-424941 N64-12820 04-01

ECONOMIC STUDY OF CATALYTIC HYDROCRACKING PROCESS APPLIED TO ORGANIC REACTOR COOLANT
IDO-21400 N64-13368 04-07

RELATION OF CYBERNETICS TO BIOLOGY, MEDICINE, ECONOMICS, AND ENGINEERING
JPRS-22931 N64-14142 05-16

COMPUTER SIMULATION OF COORDINATED ECONOMIC OPERATION OF COMBINED HYDRO- & THERMOELECTRIC SITES AND ROLE OF NUCLEAR POWERPLANTS
EUR-468.I N64-14747 06-01

OPTIMAL PROGRAMS FOR SEQUENTIAL INVESTMENTS - MATHEMATICS OF FINANCE
AD-433699 N64-21487 14-20

ETHICS, ECONOMICS, AND ATTITUDES AS FACTORS IN AIRCRAFT FLIGHT SAFETY N64-22042 15-16

EARTH-TO-ORBIT TRANSPORTATION ECONOMICS BASED ON AVAILABLE AND APPROVED LAUNCH VEHICLES OF NATIONAL BOOSTER PROGRAM
AIAA PAPER-64-278 N64-25071 17-30

ECONOMICS OF ENERGY STORAGE & CONVERSION SYSTEMS N64-29487 21-06

COMMUNICATION SATELLITES FOR TELECOMMUNICATIONS - ECONOMIC FEASIBILITY
NASA-CR-58031 N64-29553 21-32

ECONOMICS OF SCHEDULING CARGO AND PASSENGER AIRCRAFT SERVICE
FTD-TT-63-789/1 N64-29588 21-01

SPACE PROGRAM EFFECT UPON NEW ENGLAND INDUSTRY AND ECONOMY N64-30328 22-01

SPACE TECHNOLOGY TRANSFER TO CIVILIAN APPLICATION N64-30348 22-01

ECONOMIC CONCEPTS AND PRINCIPLES OF QUALITY MANAGEMENT - COSTS, SUPPLY, AND DEMAND
SC-RR-64-1279 N64-30654 22-17

CYBERNETICS AND ECONOMIC MANAGEMENT
JPRS-26773 N64-32816 24-01

EDDY CURRENT
CF ELECTRIC CURRENT
ELECTRODELESS DETERMINATION OF ELECTRICAL CONDUCTIVITIES OF MELTS AT ELEVATED TEMPERATURES USING TRANSFORMER EDDY CURRENT METHOD
NAA-SR-8833 N64-10406 01-25

EQUILIBRIUM TURBULENT HYPERSONIC WAKE CHARACTERISTICS OF SLENDER CONE WITH DIFFERENT EDDY VISCOSITY COEFFICIENTS
R63SD71 N64-11292 02-02

MODEL FOR PRODUCTION OF SMALL EDDIES FROM LARGE ONES IN MAGNETIC FIELD - MAGNETOHYDRODYNAMIC TURBULENCE
MRC-420 N64-12332 03-23

NONDESTRUCTIVE TESTING BY DOUBLE IMPULSE EDDY CURRENT
EUR-356.F N64-12450 04-23

EDDY CURRENT AND ULTRASONIC TESTING OF ZIRCALOY-2, ZIRCONIUM ROD STOCK, AND STAINLESS STEEL
ANL-6632 N64-14389 06-18

EDDY CURRENT INSPECTION EQUIPMENT
AMRA-TR-63-24 N64-15164 07-17

EDDY CURRENT - BROADBAND ELECTROMAGNETIC TESTING METHOD FOR EXTRACTION AND SEPARATION OF MULTIPLE PARAMETERS
HW-79553 N64-17269 09-09

TURBULENT JET FLOWS OF EXHAUSTING CIRCULAR JET IN EDDY
AGARD-450 N64-18720 11-11

EFFECTS OF MAGNETICALLY INDUCED EDDY-CURRENT TORQUES ON SPIN OF EARTH SATELLITE
NASA-TN-D-2198 N64-18956 11-29

TIROS SATELLITE PICTURES OF EDDY CURRENTS AND CLOUD PATTERNS
PIBAL-818 N64-19932 12-21

EDDY CURRENTS, ULTRASONIC, THERMOCONDUCTIVITY, ETCHING, AND STRESS-STRAIN DISTRIBUTION METHODS FOR MATERIAL SORTING
AD-439601 N64-26426 18-10

ERROR ANALYSIS OF TURBULENT FLUX MEASUREMENTS - EDDY FLUXES OF MOMENTUM, HEAT, AND WATER VAPOR N64-31847 23-15

EDDY CURRENT CLUTCH DRIVES FOR TRACKING ANTENNA SYSTEM
NASA-TM-X-55084 N64-33620 24-08

EDEMA
WATER AND MINERAL METABOLIC WASTE IN INSULIN EDEMA
NASA-TT-F-9112 N64-33395 24-16

EDGE
CRYSTAL TENSILE STRENGTH AND ANNEALING EFFECT ON GERMANIUM CRYSTALS - EDGE DISLOCATIONS AND ELASTIC STRESSES IN SILICON

JPRS-17689 N64-10708 02-25

INTERACTION OF EDGE DISLOCATIONS WITH VACANCIES IN SILICON N64-10711 02-25

EDGE DISLOCATION CLIMB IN SILICON UNDER ACTION OF DISSOLVED GOLD N64-10733 02-25

STRESS FIELD REACTION BETWEEN EDGE DISLOCATION DIPOLES AND RESULTING STRAIN HARDENING
TR-6 N64-13618 05-25

PLANE ELASTIC STRESS PROBLEM OF RECTANGULAR TENSILE SHEET WITH EDGE CRACKS
AMRA-TR-63-22 N64-14001 05-33

TOPOLOGY - USE OF FOUR COLORS ON EDGES OF REGULAR THREE-DEGREE GRAPH
ORC-63-28-/RR/ N64-14764 06-20

STRUCTURE CALCULATION OF X-RAY ABSORPTION EDGE OF ATOMS N64-16218 08-23

ELECTRON TRANSPORT AND RELATION TO GREEN EDGE EMISSION IN CADMIUM SULFIDE CRYSTALS
E-745-P, NO. 4 N64-16503 08-25

EDGE LOADING
LOW SPEED WIND TUNNEL TEST OF 70-DEG CROPPED DELTA WING WITH EDGE BLOWING
COA-162 N64-10212 01-03

EDGE COMPRESSION AND BUCKLING OF FLAT PANELS OF SANDWICH CONSTRUCTION WITH SIDES HINGED TO BEAMS
FPL-019 N64-19564 12-33

INTERIOR STRESS DISTRIBUTION IN EDGE-LOADED, ELASTIC, THIN WALLED SHELLS WITH LOAD WAVELENGTH LESS THAN RADIUS OF CURVATURE
REPT.-6-90-63-84 N64-29680 21-33

EDUCATION
CF CULTURE
TEACHING MACHINES WITH SEMICONDUCTOR DEVICES AND RELAYS DESIGNED FOR SELF-EXAMINATION, TESTING AND COUNSELLING
JPRS-19506 N64-10822 02-01

ROLE OF HIGHER EDUCATION IN UNITED STATES FUTURE N64-10976 02-01

CYBERNETICS IN EDUCATION AND AUTOMATION
JPRS-18832 N64-11058 02-16

CYBERNETICS IN RELATION TO IMPROVED EDUCATION AND TRAINING N64-11059 02-16

SPACE PROGRAM ECONOMIC ASPECTS - INDUSTRY, SPACE SCIENCE & TECHNOLOGY, EDUCATION, AND METHODS FOR CLOSING GOVERNMENT-INDUSTRY GAP N64-11400 02-01

INTEGRATION OF EDUCATION, INDUSTRY, GOVERNMENT, & RESEARCH TO SOLVE SOCIOECONOMIC PROBLEMS N64-11512 03-01

CHALLENGE OF SPACE RESEARCH & DEVELOPMENT PROGRAM AND IMPACT ON GOVERNMENT, INDUSTRY, & UNIVERSITIES N64-11732 03-01

CYBERNETICS IN PEDAGOGY AND COMMUNICATIONS
JPRS-23187 N64-15166 07-01

MATHEMATICAL AND CYBERNETIC METHODS APPLIED TO PEDAGOGY N64-15167 07-16

SOVIET COORDINATION OF PEDAGOGICAL SCIENCE RESEARCH N64-15168 07-01

TEACHING MACHINES AND PROGRAMMED LEARNING IN THE SOVIET - LITERATURE SURVEY
JPRS-23280 N64-15333 07-20

EDUCATION - ACCEPTANCE OF ATTITUDE DISCREPANT INFORMATION - REVERSING COGNITIONS
TR-2 N64-21186 14-08

NEW ENGLAND UNIVERSITIES AND NASA PROGRAM N64-30329 22-01

NASA-UNIVERSITY RELATIONSHIPS N64-30347 22-10

EFFECTS OF NATIONAL SPACE PROGRAMS ON EDUCATION AND UNIVERSITIES N64-32042 23-01

MULTI-USER COMPUTER FACILITY FOR EDUCATION AND RESEARCH N64-33263 24-10

EFFECT
S ATMOSPHERIC CONDITION EFFECT
S BIOLOGICAL EFFECT
S CAPTURE EFFECT
S CHEMICAL EFFECT
S COANDA EFFECT
S DIFFUSION EFFECT
S DIHEDRAL EFFECT
S DRAG EFFECT
S FORBUSH EFFECT
S FREE STREAM EFFECT
S GEOMAGNETIC EFFECT
S GRAVITATIONAL EFFECT
S GREENHOUSE EFFECT
S HALL EFFECT
S HEAT EFFECT
S LONG PERIOD EFFECT
S LUNAR EFFECT
S MEISSNER EFFECT
S PELTIER EFFECT
S PINCH EFFECT
S RAMAN EFFECT
S REYNOLDS NUMBER EFFECT
S SCALE EFFECT
S SEEBECK EFFECT
S SMITH-PURCELL EFFECT
S SOLAR ACTIVITY EFFECT
S STARK EFFECT
S TEMPERATURE EFFECT
S THOMSON EFFECT

EGO
SHADOW TIME AND HEAT INPUT OF EGO SATELLITE
NASA-TM-X-55014 N64-27251 19-32

LOCATION AND SCHEDULING OF OPERATION OF ECCENTRIC GEOPHYSICAL OBSERVATORY /EGO/ IN GEGENSCHEIN REFERENCE SYSTEM
NASA-TM-X-55032 N64-27813 19-29

EGO BALLOON EXPERIMENT DATA PROCESSOR
NASA-TM-X-55068 N64-29188 21-08

EIGENFUNCTION
WAVE FUNCTION OF DIATOMIC MOLECULES EXPANDED IN SERIES OF ORBITAL ANGULAR MOMENTUM EIGENFUNCTIONS
NASA-TM-X-51666 N64-20589 13-23

SOLUTION TO PROBLEM OF FINDING EIGENVALUES AND EIGENFUNCTIONS OF LINEAR INTEGRAL OPERATOR WITH SYMMETRIC KERNEL
FTD-MT-63-303 N64-31733 23-20

EIGENVALUE
NUMERICAL SOLUTION OF INTEGRAL TRANSFER EQUATIONS AND DETERMINATION OF MINIMUM EIGENVALUE
EUR-372.I N64-10982 02-20

ANHARMONICS PROBLEM - EIGENVALUES OF OSCILLATORS EVALUATED, BROADENED INTERLEVEL SPACING, AND PROPOSED PARTITION FUNCTION FOR CRYSTAL PROPERTIES
AMRA-TR-63-20 N64-13115 04-23

ALGORITHMS TO FIND EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRICES N64-16683 08-20

UNITARY-TRIANGULAR FACTORIZATION FOR CALCULATION OF MATRIX EIGENVALUES ON DIGITAL COMPUTER
NYO-10437 N64-17569 09-26

EIGENVALUE MATRIX TREATMENT OF NUCLEAR INTERACTION BETWEEN FISSILE MATERIALS
HW-80213 N64-17704 09-23

BOSON APPROXIMATION USED IN EIGENVALUE EQUATIONS FOR NUCLEAR STRUCTURE DETERMINATION
RIFP-33 N64-20623 13-23

APPROXIMATION OF EIGENVALUES FOR HEAT TRANSFER IN LAMINAR TUBE SLIP FLOW
NASA-RP-161 N64-21273 14-13

TRIDIAGONALIZATION OF MATRIX USING SIMILARITY TRANSFORMATIONS - EIGENVALUE PROBLEM
ARDO-3772-4 N64-22531 15-20

GALERKIN METHOD APPLIED TO SELF-ADJOINT, NON-POSITIVE DEFINITE EIGENVALUE PROBLEMS IN HYDRODYNAMIC STABILITY
RPI-MATH-REP.-66 N64-22713 15-11

COMPUTER PROGRAMS FOR EIGENVALUE SPACING DISTRIBUTIONS AND MOMENTS
BNL-863/T-346/ N64-24922 17-23

NUMERICAL METHOD FOR CALCULATION OF EIGENVALUES IN PROBLEM OF PLANE POISEUILLE FLOW STABILITY
NASA-TN-D-2414 N64-26630 18-11

SOLUTION TO PROBLEM OF FINDING EIGENVALUES AND EIGENFUNCTIONS OF LINEAR INTEGRAL OPERATOR WITH SYMMETRIC KERNEL
FTD-MT-63-303 N64-31733 23-20

CALCULATIONS OF EIGENVALUE OF LAPLACE OPERATOR BY GRID METHOD
FTD-MT-63-328 N64-31913 23-20

NOMOGRAPHS RELATED TO COMPLEX RELATIVE PERMITTIVITY EIGENVALUES FOR MAGNETOIONIC PLASMA MEDIUM
REPT.-1565-11 N64-33595 24-24

EIGENVALUE PROBLEM
SA RAYLEIGH-RITZ METHOD
SOLUTION OF ALGEBRAIC EIGENPROBLEM FOR IBM 7074 COMPUTER
IS-748 N64-10222 01-20

FORTRAN PROGRAM FOR CALCULATION OF OVERTONE MODES OF THREE DIFFUSION THEORY EIGENVALUE PROBLEMS - MULE PROGRAM
WAPD-TM-369 N64-11368 02-20

EIGENVALUE PROBLEM AND APPROACH FOR DETERMINATION OF ANTENNA SYSTEM NATURAL FREQUENCIES & MODES - COMPUTER PROGRAM FOR EIGENVALUES AND VECTORS
NASA-CR-55215 N64-13196 04-20

INVERSE SCATTERING PROBLEM IN QUANTUM MECHANICS - INVERSION OF EIGENVALUE PROBLEMS
WIS-TCI-15 N64-15649 07-20

SIMULTANEOUS EIGENVALUE PROBLEM OF MULTIVARIATE SPECTRAL THEORY
MRC-431 N64-18016 10-20

OBTAINING PRECISE BOUNDS IN SPECIAL EIGENVALUE PROBLEMS
NASA-CR-58672 N64-28879 20-23

EIGENVECTOR
EIGENVALUE PROBLEM AND APPROACH FOR DETERMINATION OF ANTENNA SYSTEM NATURAL FREQUENCIES & MODES - COMPUTER PROGRAM FOR EIGENVALUES AND VECTORS
NASA-CR-55215 N64-13196 04-20

SHELL MODEL STUDY OF CHLORINE AND NUCLEI WITH 36 NUCLEONS - BEHAVIOR AND EIGENVECTOR PROPERTIES IN LOW ENERGY LEVEL
KFKI-1491/F N64-15989 07-23

ALGORITHMS TO FIND EIGENVALUES AND EIGENVECTORS OF REAL SYMMETRIC MATRICES N64-16683 08-20

DYADIC OPERATIONS WITH EIGENVECTOR BASES
TN-109 N64-31639 23-20

EINSTEIN EQUATION
SA RELATIVITY THEORY
EINSTEIN FIELD EQUATIONS FOR ROTATING, STATIONARY, AND DUST-FILLED UNIVERSE
MRC-448 N64-17635 09-20

RELATIONSHIP BETWEEN NEWTONIAN MOTION EQUATIONS AND HARMONIC COORDINATE CONDITIONS OF ZERO ORDER IN EINSTEIN GRAVITATION THEORY
FTD-TT-63-593/1&2&4 N64-29325 21-23

EJECTION
SA BAILOUT
MODES OF MASS EJECTION BY BINARY STARS & EFFECT ON THEIR ORBITAL PERIODS
NASA-RP-77 N64-11114 02-05

TRANSFER OF ANGULAR MOMENTUM BETWEEN EJECTED PARTICLES & BINARY SYSTEM - RESTRICTED THREE-BODY PROBLEM
NASA-RP-82 N64-11197 02-05

EJECTION AND JET MIXING IN TURBULENT GAS JETS
FTD-TT-63-222/1&2&4 N64-17186 09-11

EJECTION PROPERTIES OF TURBULENT GAS JETS N64-17187 09-11

DYNAMICS OF SEPARATING BODIES - EJECTIONS OF DYNAMIC MODELS FROM CARRIER VEHICLE AT SUPERSONIC AND HYPERSONIC SPEEDS
ORA-63-15 N64-20379 13-02

ANNOTATED BIBLIOGRAPHY OF STAGE SEPARATION AND EJECTION SYSTEMS OF FLIGHT VEHICLES
SB-64-14 N64-29314 21-06

ROCKET ENGINE FOR XM-7 AIRCRAFT CAPSULE EJECTION CATAPULT
PA-TM-1224 N64-32030 23-27

EJECTOR
SA JET PUMP
DIFFUSER-EJECTOR CONFIGURATION FOR TWO-NOZZLE CLUSTER ROCKET
AEDC-TDR-63-130 N64-11187 02-02

PREDICTION METHOD FOR STARTING PRESSURE-RATIO FOR ZERO-SECONDARY-FLOW EJECTOR SYSTEM WITH SECOND THROAT DIFFUSER
AEDC-TDR-63-249 N64-13668 05-02

BASE PRESSURE ANALYSIS OF AXISYMMETRIC EJECTORS WITHOUT INDUCED FLOW
AEDC-TDR-64-3 N64-15521 07-11

PERFORMANCE CHARACTERISTICS OF TWO-DIMENSIONAL CENTER JET EJECTOR
TN-AE-18-63 N64-20442 13-02

V/STOL AIRCRAFT - COMPRESSIBLE AND INCOMPRESSIBLE EJECTORS
DFL-234 N64-21704 15-03

PERFORMANCE CHARACTERISTICS AND INTERACTION BETWEEN PRIMARY AND SECONDARY FLUID FLOW STREAMS OF SUPERSONIC EJECTOR SYSTEMS N64-22441 15-11

TRANSIENT PUMPING CHARACTERISTICS OF SUPERSONIC EJECTOR SYSTEM OF ROCKET ENGINE EXHAUST STREAM
ASME PAPER-64-FE-9 N64-22496 15-17

STEADY STATE & TRANSIENT OPERATING CHARACTERISTICS OF LONG CYLINDRICAL SHROUD SUPERSONIC EJECTORS
NASA-CR-56653 N64-24114 16-04

INFLUENCE OF PERTINENT PARAMETERS ON EJECTOR-DIFFUSER PERFORMANCE WITH AND WITHOUT EJECTED MASS
AEDC-TDR-64-134 N64-26102 18-27

JET COMPRESSOR GEOMETRY EFFECT ON EFFICIENCY
PR-10 N64-28827 20-11

EL-CTRON
TRANSITION PROBABILITIES IN MOLECULES WITH CONJUGATE SYSTEM OF PI-ELECTRONS N64-28311 20-16

ELASTIC BENDING
NONLINEAR ELASTIC BENDING OF PLATE STRIP
GD/A-63-0769 N64-14457 06-33

ELASTIC BODY
LAGRANGE EQUATION OF DISLOCATION MOTION IN EXTERNAL STRESS FIELD OF ELASTIC MEDIUM
JPRS-17473 N64-10680 02-23

ELASTIC BAND STABILITY IN GAS FLOW AND WING FLUTTER STUDY
FTD-TT-63-754/1&2 N64-12490 04-01

STABILITY OF ELASTIC BAND IN GAS FLOW

N64-12491 04-11

VIBRATIONS OF ELASTIC STRUCTURES OF CIRCULAR CYLINDRICAL FORM IN SUPERSONIC FLUID FLOW
FTD-TT-63-744/1&2&3 N64-12631 04-33

THERMAL STRESS ANALYSIS OF SOLID ELASTIC BODY BOUNDED BY ONE OR TWO CONES
MRC-418 N64-13821 05-13

TENSILE STRESS ON ELASTIC SHEET WITH CRACKS IN EDGES AND LATERAL END CONSTRAINT
AMRA-TR-63-26 N64-16490 08-33

NUMERICAL ANALYSIS OF NONLINEAR ELASTIC BODIES
ERR-AN-157 N64-16858 08-33

SHOCK SPECTRUM OF ELASTIC BODY MOTION WITH ONE DEGREE OF FREEDOM N64-18551 11-23

OSCILLATION OF ELASTIC SOLID PANEL BORDERING SUPERSONIC FLOW OF GAS
FTD-MT-63-143 N64-18685 11-11

OSCILLATION OF ELASTIC SOLID PANEL BORDERING SUPERSONIC FLOW OF GAS
FTD-MT-63-143 N64-18685 11-11

ROTATIONALLY SYMMETRIC STRESSES AND DEFORMATIONS IN ELASTIC MEMBRANE BY SPHERICAL INDENTER
SUDAER-182 N64-22504 15-33

STRESS AROUND UNREINFORCED HOLES IN INFINITE ELASTIC SHEETS
ARC-R&M-3354 N64-25202 17-33

TRANSVERSE VIBRATIONS OF SPINNING ANNULAR ELASTIC MEMBRANE WITH FREE EDGES
SUDAER-184 N64-26809 18-33

RESPONSE OF VARIOUS ELASTIC AND INELASTIC BODIES TO DYNAMIC LOADING
ARDD-2951-9 N64-26819 18-33

EFFECT OF RIVETED STRINGER ON STRESS CONCENTRATION IN ELASTIC SHEET WITH CRACK OR CUT-OUT
TR-20 N64-28555 20-33

MOTION EQUATIONS FOR FREE VIBRATIONS OF ELASTIC BEAM WITH FOIL SHAPED APPENDAGE
R-1022 N64-32211 23-33

ELASTIC CONSTANT
STRESS ANALYSIS OF STRAIGHT-LINE DISLOCATION NEAR PLANE OF DISCONTINUITY OF ELASTIC CONSTANTS IN UNLIMITED ANISOTROPIC MEDIUM N64-10734 02-25

RIGID BODY VIBRATIONS OF ROCKET SLEDS AND SHAKE TEST METHOD OF OBTAINING INERTIA AND ELASTIC CONSTANTS
MDC-TDR-63-1 N64-12938 04-33

BOUNDS AND EXPRESSIONS FOR ELASTIC MODULI OF CIRCULAR FIBER-REINFORCED MATERIALS BY VARIATIONAL METHOD
ASME PAPER-63-WA-175 N64-13943 05-19

EXPONENTIAL TEMPERATURE DEPENDENCE OF ELASTIC MODULI OF SINGLE CRYSTAL AND POLYCRYSTALLINE MAGNESIUM OXIDE
ARDD-2891-10 N64-13989 05-25

PRESSURE DERIVATIVES OF SINGLE CRYSTAL ELASTIC CONSTANTS OF POTASSIUM
TR-7 N64-14490 06-25

METHOD FOR DETERMINING ELASTIC MODULUS OF GRAPHITE AT TEMPERATURES TO 3000 DEG C
WADD-TR-61-72, VOL. 23 N64-18026 10-19

ELASTIC MODULUS OF MATERIALS REINFORCED BY HOLLOW CIRCULAR FIBERS
NASA-CR-31 N64-19882 12-33

TEMPERATURE STRESSES IN ISOTROPIC CYLINDER WITH LONGITUDINAL VARIATION OF ELASTIC MODULUS
TIL/T-5391 N64-20866 14-33

TRIAXIAL METHOD FOR DETERMINING ELASTIC CONSTANTS OF STRESS RELIEF CORES
BM-RI-6490 N64-26090 18-33

ELASTIC MODULI AND TENSILE STRENGTH OF SILICATE GLASSES AND OTHER CERAMIC MATERIALS
PR-4 N64-26691 18-19

ELASTIC CONSTANTS FOR BENDING AND TWISTING OF CORRUGATION STIFFENED PANELS
NASA-TR-R-166 N64-30104 21-33

ELASTIC DEFORMATION
DISCRETE STRUCTURE OF ELASTIC STRESSES FORMED BY A SERIES OF DISLOCATIONS IN SILICON N64-10712 02-25

ERROR CALCULATION OF ELASTIC DEFORMATION IN MACHINING PARTS BY LATERAL TURNING AND RADIAL FEED N64-13580 05-17

THEORY OF ELASTIC RESPONSE OF THIN SPHERICAL SHELL TO AXISYMMETRIC BLAST LOADING FROM DETONATION OF ECCENTRICALLY PLACED INTERNAL EXPLOSIVE CHARGES
BRL-MEMO-1520 N64-14674 04-33

ELASTIC & PLASTIC DEFORMATION OF METALS BY IMPACT AND EXPLOSIVE LOADING N64-15108 07-33

THEORY OF ELASTICITY AND THERMAL STRESSES - SOLID AND HOLLOW SPHERE DEFORMATION - NONUNIFORM CIRCULAR HEATING - FLATTENING FORCE OF SOLID BEAMS
TN-132 N64-20423 13-20

ELASTIC AND PLASTIC DEFORMATIONS OF CYLINDRICAL THIN SHELLS UNDER DYNAMIC LOADING
TR-3 N64-22326 15-33

OPTICAL METHODS FOR DETERMINING DEFORMATIONS IN THICKNESS OF MODELS - PHOTOELASTICITY
RSIC-186 N64-22724 15-23

NONLINEAR THEORY OF ELASTICITY - DEFORMATION OF PRE-STRESSED CIRCULAR PLATES AND RINGS BY HYDROSTATIC PRESSURES
NASA-CR-58572 N64-29688 21-33

ELASTIC MEDIUM
THEORY OF STRENGTH OF CIRCULAR PLATES ON ELASTIC SEALED FOUNDATIONS - OBSERVATIONS OF NEWLY FROZEN ICE SHEETS ON POOLS OF WATER
CRREL-118 N64-18364 10-33

EQUATIONS FOR DYNAMIC RESPONSE OF THREE-DIMENSIONAL SHELLS OF ELASTIC-PLASTIC MATERIALS
ASRL-TR-110-1 N64-19110 11-33

FLUTTER BOUNDARIES OF PARALLEL PLATES CONNECTED BY ELASTIC MEDIUM
NASA-RP-156 N64-19147 11-33

ELIMINATION OF ERROR IN COMPUTATION OF RAYLEIGH WAVE DISPERSION CURVES FOR LAYERED ELASTIC MEDIA BY ACCOUNTING FOR DECOUPLING EFFECTS
AFCRL-64-231 N64-20105 13-25

WAVE PROPAGATION IN ELASTIC MATERIALS AND STATISTICAL ANALYSIS OF ELASTO-DYNAMIC PROBLEM
AFOSR-64-0144 N64-22047 15-33

STRESS AND STRAIN ANALYSIS OF ELASTIC STRUCTURES
PUBL.-146 N64-22246 15-33

FIELD EQUATIONS, JUMP CONDITIONS, AND CONSTITUTIVE EQUATIONS OF POLAR ELASTIC DIELECTRIC SUBJECT TO DEFORMATIONS AND ELECTROMAGNETIC FIELDS
TR-25 N64-24389 17-25

GROUND MOTION IN ELASTIC REGION CAUSED BY ENERGY DELIVERED DIRECTLY TO GROUND BY NUCLEAR EXPLOSION
RTD-TDR-63-3125 N64-25645 17-23

LONGITUDINAL WAVE PROPAGATION IN ELASTIC POROUS MEDIUM SATURATED WITH LIQUID N64-28475 20-11

TEMPERATURE FIELD OF CYCLICLY DEFORMED ELASTO-PLASTIC MEDIUM N64-28493 20-13

FOURIER TRANSFORM AND MATRIX METHOD COMPUTATIONS OF TIME RESPONSE FOR ELASTIC LAYERED MEDIA

AFCRL-64-503 N64-31630 23-12

LONGITUDINAL MOTION OF ELASTIC ROD WITH ATTACHED MASS IN RESISTING MEDIUM - LAPLACE TRANSFORM SOLUTION
NSL-1931 N64-31650 23-33

ELASTIC PROPERTY
EQUATION OF STATE FOR ELASTIC, ELASTIC-PLASTIC, & HYDRODYNAMIC FLOW
UCRL-7322 N64-11095 02-23

FLOW OF RESILIENT-VISCOUS LIQUID IN PIPES OF RING, ROUND, AND SLIT CROSS SECTION N64-11981 03-02

ELASTIC PROPERTIES OF POLYCRYSTALLINE NICKEL OXIDE
ANOC-2892-2 N64-13041 04-19

ELASTIC AND DAMPING PROPERTIES OF LIGHT AIRCRAFT & COMPRESSOR BLADES N64-13561 05-03

ELASTIC MODULI AND TENSILE STRENGTH OF GLASSES AND CERAMIC MATERIALS N64-14734 06-19

ELASTIC AND THERMAL PROPERTIES OF CARBON COMPOUNDS
WADC-TR-58-360, PT. 5 N64-15068 07-19

INFLUENCE OF ALLOYING ADDITIONS ON TEMPERATURE DEPENDENCE OF ELASTIC MODULUS IN NICKEL & NICHROME ALLOYS N64-17059 09-18

ELASTIC PROPERTIES OF MAGNESIUM OXIDE & MAGNESIUM ALUMINATE SPINEL
AD-432276 N64-20691 13-19

ELASTIC PROPERTIES OF MAGNESIUM OXIDE N64-20692 13-19

ELASTIC PROPERTIES OF POLYCRYSTALLINE MAGNESIUM ALUMINATE SPINEL N64-20693 13-19

ELASTIC STIFFNESS COEFFICIENTS OF SINGLE CRYSTAL IRON AT ROOM AND LIQUID NITROGEN TEMPERATURES
AD-435780 N64-21418 14-25

ELASTIC PROPERTIES OF ROCK UNDER HIGH ISOSTATIC PRESSURE
FTD-TT-63-725/1&2&3&4 N64-21935 15-19

ELASTIC PROPERTIES OF THIN SHELLS OF REVOLUTION
NASA-CR-37 N64-23622 16-23

COTTON, NYLON & KNITTED FABRIC WITH ELASTIC STRETCH CHARACTERISTICS
SEG-TDR-64-6 N64-23983 16-19

LOW TEMPERATURE ELASTIC PROPERTIES OF ELASTOMERS - MODULUS OF RIGIDITY, BRITTLE TEMPERATURE, AND YOUNGS MODULUS.
NASA-TM-X-53137 N64-33871 24-19

ELASTIC SCATTERING
OF INELASTIC SCATTERING
PHASE SHIFT VALUES FROM POLARIZATION AND ELASTIC SCATTERING DATA ANALYSIS N64-10303 01-23

ELASTIC SCATTERING CROSS SECTIONS FOR SLOW ELECTRONS INCIDENT ON SODIUM & POTASSIUM
NASA-CR-55166 N64-13373 04-23

ELASTIC SCATTERING OF CHARGED K-MESON PARTICLE IN HYDROGEN BUBBLE CHAMBER
UCRL-11155 N64-15400 07-23

ELASTIC SCATTERING OF HIGH ENERGY MOLECULAR BEAMS N64-16245 08-23

SOPHIST-5 - IBM 7090 AND 7094 FORTRAN II COMPUTER CODE WHICH CALCULATES ENERGY TRANSFER MATRICES FOR NEUTRON ELASTIC SCATTERING
UCRL-7624 N64-17074 09-20

CROSS SECTIONS FOR ELASTIC NEUTRINO AND ANTI-NEUTRINO SCATTERING ON ELECTRONS AND ABSORPTION ON PROTON
LANS-3013 N64-17239 09-23

PION-PROTON ELASTIC SCATTERING IN 300- TO 700-MEV ENERGY RANGE
UCRL-11180 N64-17978 10-23

FORTRAN PROGRAM FOR ELASTIC SCATTERING OF SPIN-ZERO PARTICLES FROM ATOMIC NUCLEUS
NASA-TN-D-2120 N64-18079 10-20

ELASTIC SCATTERING OF HIGH ENERGY PROTONS
FTD-MT-63-53/1&2 N64-18756 11-23

ELASTIC AND INELASTIC SCATTERING OF DEUTERONS FROM RADIOACTIVE NICKEL - TABULATED DIFFERENTIAL CROSS SECTION
ORNL-3637 N64-24684 17-23

YIELD OF ELASTICALLY SCATTERED NEUTRONS FROM NUCLEAR REACTION CARBON 12 /N,N/ CARBON 12
ORNL-3615 N64-25547 17-23

RESONANCES IN ELASTIC SCATTERING CROSS SECTION OF ELECTRONS ON HELIUM, NEON, KRYPTON, AND XENON
TR-24 N64-27792 19-23

QUANTUM EFFECTS IN ELASTIC SCATTERING OF MOLECULES
NASA-CR-56897 N64-27869 20-23

ROLE OF INELASTIC COLLISIONS IN KINEMATICS OF ELASTIC SCATTERING WITH LARGE MOMENTUM TRANSFER
CERN-64-38 N64-31628 23-23

ANALYSIS OF PI PLUS PROTON ELASTIC SCATTERING USING PARTIAL WAVE EQUATION
SLAC-PUB-28 N64-32412 23-23

ENERGY DEPENDENCE OF LARGE ANGLE ELASTIC ALPHA PARTICLE SCATTERING
NASA-RP-354 N64-33787 24-23

ELASTIC SHELL
STRESS IN HEMISPHERICAL CELLULAR SUPPORT STRUCTURE WITH FLEXIBLE ELASTIC SUPPORTING SHELL
UCRL-7473 N64-13193 04-34

STRESS ANALYSIS OF ELASTIC-PLASTIC SHELLS OF REVOLUTION CONTAINING DISCONTINUITIES
NASA-RP-131 N64-15668 07-33

THIN ELASTIC SHELL THEORY - APPLICATION IN DESIGNING ARCH DAMS
TIL/T-5423 N64-18344 10-33

NONLINEAR MODEL OF THERMAL BUCKLING OF ELASTIC, THIN WALLED SHELLS
SUDAER-173 N64-18842 11-33

FREE VIBRATIONS OF THIN ELASTIC SHELLS - BIBLIOGRAPHY
NASA-CR-58048 N64-27313 19-33

LINEAR THEORY OF THIN ELASTIC SHELLS
AM-64-8 N64-30532 22-33

DIFFERENTIAL EQUATIONS OF LINEAR BANDING THEORY OF ELASTIC SHELLS
AM-64-15 N64-33506 24-33

DYNAMICS OF ELASTIC CYLINDRICAL SHELL UNDER IMPULSIVE PRESSURE
TDR-469/55810-12/-1 N64-33797 24-33

ELASTIC STABILITY
STIFFNESS METHOD OF STRUCTURAL ANALYSIS - COMPUTER PROGRAMMING, STRESS, THERMOELASTICITY, & ELASTIC STABILITY CALCULATIONS N64-13045 04-34

ELASTIC STABILITY OF THIN RECTANGULAR PLATES REINFORCED WITH HORIZONTAL AND VERTICAL STIFFENERS AND STRESSED IN COMPOUND BENDING AND SHEAR
RSIC-86 N64-14360 06-33

ELECTROMODELING OF CONFORMAL TRANSFORMATION SOLUTION OF TWO-DIMENSIONAL PROBLEM OF ELASTICITY OF SINGLY AND DOUBLY CONNECTED REGIONS
TIL/T-5449 N64-18278 10-33

ELASTIC AND PLASTIC STABILITY OF ORTHOTROPIC SPHERICAL SHELLS
NASA-CR-53354 N64-18297 10-33

ELASTIC STABILITY OF CYLINDRICAL SHELLS UNDER

COMPRESSIVE LOADING USING DONNELL EQUATION
NASA-CR-53361 N64-18298 10-33

ELASTIC STABILITY IN NON-LINEAR SNAP BUCKLING - SNAP BUCKLING OF CIRCULAR PLATES DUE TO RAPID HEATING OR COOLING N64-28097 20-33

ELASTIC STRENGTH
PLANE ELASTIC STRESS PROBLEM OF RECTANGULAR TENSILE SHEET WITH EDGE CRACKS
AMRA-TR-63-22 N64-14001 05-33

STRENGTH OF REINFORCED PLASTIC LAMINATES AT ELEVATED TEMPERATURES
RTD-TDR-63-4091 N64-16470 08-19

CHEMISTRY & TECHNIQUE OF WATER PURIFICATION, STRENGTH & DUCTILITY, AND MICROBIOLOGICAL SYNTHESIS OF PROTEINS & OTHER SUBSTANCES
JPRS-24494 N64-19785 12-23

ELASTIC STRENGTH AND DUCTILITY RESEARCH
N64-19786 12-23

STRENGTH AND AEROELASTICITY OF MATERIALS
WGLR-10/1963 N64-21696 15-02

ELASTIC SYSTEM
ELEMENTS OF NORMAL MODE THEORY FOR DEFINING DYNAMIC RESPONSE OF LINEAR ELASTIC STRUCTURES
NRL-6002 N64-18778 11-33

STRAIN GAUGES TO DETERMINE TRANSIENT LOADS ON MULTI-DEGREE-OF-FREEDOM ELASTIC STRUCTURES
N64-20242 13-30

ELASTIC DEUTERON REACTIONS IN IMPULSE APPROXIMATION
TH-46 N64-22043 15-23

EFFECT OF ELASTIC INTERACTION ON KINETICS OF CRYSTAL CLUSTER GROWTH
AROD-3870-1 N64-23951 16-18

STRUCTURE, PROPERTIES, AND PATHOLOGICAL CHANGES OF ELASTIC FIBROUS COMPONENTS OF CONNECTIVE TISSUE
JPRS-25252 N64-26056 18-16

SEMI-INFINITE ELASTIC STRIP - STRESS & BOUNDARY CONDITION EFFECTS ON EQUATIONS
MRC-478 N64-27717 19-20

MATRIX OPERATIONS, LINEAR INTEGRAL EQUATIONS THEORY, AND DIFFERENTIAL EQUATIONS FOR DYNAMIC STABILITY OF RODS AND ELASTIC SYSTEMS
TDR-169/3560-30/TR-2, VOL. 4 N64-32303 23-20

ELASTIC WAVE
DISTRIBUTION OF ELASTIC WAVES EXCITED BY SINGLE BOUNDARY EFFECT IN INFINITE ELASTIC LAYERS
AD-421986 N64-12282 03-11

ELASTIC & ACOUSTIC WAVE RADIATION FROM CYLINDRICAL MEDIA ABOUT A POINT SOURCE
REPT.-5178-14-T/3-23-T N64-13111 04-23

PROPAGATION OF ULTRASONIC ELASTIC WAVES IN SOLID BODIES AND IN GRANULAR MEDIA
AFCRL-63-932 N64-15723 07-23

DEPENDENCE OF AMPLITUDE OF SEISMIC WAVES ON WEIGHT OF CHARGE - ELASTIC WAVE EXCITATION
FTD-MT-63-36/162 N64-18751 11-12

ULTRASONIC MODEL STUDY OF ATTENUATION OF SEISMIC WAVES IN SOLIDS - ELASTIC WAVES
AROD-1740-11 N64-23968 16-23

PROPAGATION OF ELASTIC WAVES IN PLANE DISCS WITH CIRCULAR HOLE
E-T-G-63-31 N64-25490 17-23

LONGITUDINAL ELASTIC WAVE VELOCITY IN POROUS MEDIA WITH LIQUID SATURATION - CRUDE OIL EXPLORATION
FTD-TT-64-210/162 N64-30877 22-12

TRANSIENT WAVE SCATTERING FROM CIRCULAR CYLINDRICAL CAVITY IN INFINITE ELASTIC SOLID
RTD-TDR-63-3052 N64-30887 22-25

ELASTICITY
SA AEROELASTICITY
SA PHOTOELASTICITY
SA PLASTICITY
CF FLEXIBILITY
CF MECHANICAL PROPERTY
THEORY OF ELASTICITY SOLUTIONS FOR STRESS FIELD AT CRACK TIP - ELASTIC-PLASTIC FATIGUE TRANSFORMATION AND CRACK PROPAGATION
AGARD-412 N64-10258 01-33

ELASTIC MODELS OF EARTH MANTLE CORRESPONDING TO VARIATIONS IN EXTERNAL GRAVITY FIELD
NASA-RP-59 N64-10292 01-12

CRYSTAL TENSILE STRENGTH AND ANNEALING EFFECT ON GERMANIUM CRYSTALS - EDGE DISLOCATIONS AND ELASTIC STRESSES IN SILICON
JPRS-17689 N64-10708 02-25

LAMINATION CRACKING IN METAL POWDER PRESSINGS AS RESULT OF ELASTIC STRETCHING OF DIE AND ELASTIC AFTEREFFECTS IN SPECIMEN N64-11482 03-17

DENSITY AND ELASTICITY CHANGES IN PRESSING OF ALUMINUM, TUNGSTEN, AND COPPER POWDERS
N64-11483 03-17

STIFFNESS METHOD OF STRUCTURAL ANALYSIS - COMPUTER PROGRAMMING, STRESS, THERMOELASTICITY, & ELASTIC STABILITY CALCULATIONS N64-13045 04-34

INTERNAL FRICTION AND DYNAMIC ELASTIC MODULUS OF SINTERED ALUMINUM POWDER
EUR-402.1 N64-13141 04-23

MICROSTRUCTURE IN LINEAR ELASTICITY
T. R.-50 N64-13240 04-23

THERMOELASTICITY - EQUATIONS, THERMAL STRESS, VARIATIONAL PRINCIPLE, THERMAL BUCKLING, AND STIFFNESS & VIBRATION N64-13564 05-23

LINEAR PHOTOVISCOELASTIC MATERIALS - STRESS OPTIC COEFFICIENT
GALCIT-SM-63-19 N64-14242 06-23

EFFECT OF SOLUTE ELEMENTS ON MAGNETOELASTIC DAMPING & COERCIVITY IN VERY PURE IRON
AD-428026 N64-14642 06-23

PRESSURE, TEMPERATURE, AND FILM THICKNESS BETWEEN TWO LUBRICATED ROLLING AND SLIDING CYLINDERS - THERMOELASTOHYDRODYNAMICS
MTI-63TR48 N64-16792 08-17

ELASTIC STRESS DISTRIBUTION IN THIN, FINITE-WIDTH ORTHOTROPIC PLATES WITH CENTRAL CRACKS - SOLUTION BY USE OF FINITE FOURIER TRANSFORMS
NASA-TN-D-2260 N64-17161 09-33

TURBULENT SHEAR FLOW OF REAL VISCOELASTIC FLUIDS
NASA-CR-53319 N64-17792 09-11

FORWARD DIFFERENTIAL CROSS SECTION FOR PION ELASTIC CHARGE-EXCHANGE SCATTERING
UCRL-11150 N64-17836 09-23

FOURIER SERIES SOLUTION TO DYNAMIC PROBLEMS OF ELASTICITY THEORY
FTD-MT-63-134 N64-18682 11-33

THERMOELASTIC DIFFERENTIAL EQUATIONS FOR SHELLS OF ARBITRARY SHAPE
SSD-TDR-63-20 N64-19157 11-33

THEORY OF ELASTICITY AND THERMAL STRESSES - SOLID AND HOLLOW SPHERE DEFORMATION - NONUNIFORM CIRCULAR HEATING - FLATTENING FORCE OF SOLID BEAMS
TN-132 N64-20423 13-10

EQUATIONS OF ANISOTROPIC SHELL ELASTICITY THEORY IN CURVILINEAR COORDINATES N64-22802 16-13

ELASTIC RECOVERY CONCEPT FOR EXPANDABLE SPACE STRUCTURES N64-23725 16-30

BOUNDS FOR SOLUTION OF BOUNDARY-VALUE PROBLEMS IN THEORIES OF ELASTICITY & HEAT CONDUCTION

ARDD-2953-3 N64-25577 17-13

MECHANICAL & OPTICAL CHARACTERIZATION OF HYSOL 870 MODULUS POLYMER - PHOTOVISCOELASTIC ANALYSIS
WL-TDR-64-4 N64-26947 18-33

SOLUTION OF FUNDAMENTAL PROBLEM OF THEORY OF ELASTICITY
REPT.-2993 N64-27705 19-20

BASIC SPATIAL PROBLEMS OF POTENTIAL AND ELASTICITY THEORY FOR REGIONS BOUNDED BY TWO CLOSED SURFACES
N64-27983 20-23

ELASTIC ANALYSIS OF FILAMENT WOUND PRESSURE VESSELS - CONTRIBUTION OF RESIN TO STRENGTH OF COMPOSITE
REPT.-1 N64-28123 20-34

FLUID DYNAMICS, SUPERSONIC FLOW, GAS FLOW, METALLURGY, ELASTICITY, SHOCK WAVES, STRESS, DEFORMATION, AND SPACE VEHICLE REENTRY
JPRS-26019 N64-28469 20-01

ELASTICITY THEORY FOR FLAT AND PARALLEL PLANES UNDER COMPOSITE BOUNDARY CONDITIONS
N64-28494 20-33

THEORY OF PLANE ELASTICITY WITH REFERENCE TO SOME OBLIQUE COORDINATES N64-28522 20-33

NONLINEAR THEORY OF ELASTICITY - DEFORMATION OF PRE-STRESSED CIRCULAR PLATES AND RINGS BY HYDROSTATIC PRESSURES
NASA-CR-58572 N64-29608 21-33

ELASTIC VIBRATIONS OF PARABOLOIDAL SHELLS OF REVOLUTION
AD-402926 N64-29920 21-33

EXACT SOLUTION FOR THREE-DIMENSIONAL STATIONARY DYNAMIC ELASTICITY OF ISOTROPIC CYLINDER
N64-30421 22-33

PLANE STRESS DISTRIBUTION IN VARIABLE THICKNESS PLATES BY ELASTICITY THEORY N64-30425 22-33

SYNTHESIS OF THERMALLY AND HYDROLYTICALLY STABLE ELASTOMERS BASED ON CHAINS OF SILICON ATOMS BONDED TO NITROGEN
QPR-9 N64-30582 22-07

STRENGTH OF LAMINATED MATERIALS EVALUATED BY PHOTOELASTIC TESTING
RAE-TRANS-1070 N64-31019 22-17

PRINCIPLE OF MAXIMUM ABSORPTION IN THEORY OF ELASTICITY N64-31753 23-23

EXPERIMENTAL STUDY OF TWO-DIMENSIONAL ELASTICITY USING BIREFRIGENCE OF GLASS SUBJECTED TO STRESSES
RSIC-262 N64-31930 23-33

VIBRATIONS OF SOLID ISOTROPIC ELASTIC CYLINDERS
NRE-63/4 N64-32155 23-33

CORRELATION OF PHOTO AND MECHANICAL ELASTICITY IN BENDING OF ISOTROPIC MATERIALS UNDER COMPRESSION LOADING
RSIC-270 N64-32497 23-33

HYDROELASTIC FLUTTER OF FINITE SPAN CAVITATING HYDROFOILS
REPT.-64-12 N64-32584 23-33

COMPUTER PROGRAMMED LOAD CYCLING FOR PLASTIC DEFORMATION MATERIAL TESTING AND VERIFICATION OF ELASTICITY THEORY
ONERA-TP-161 N64-33258 24-25

SHELL & ELASTICITY THEORY EQUATIONS FOR THICK ORTHOTROPIC CIRCULAR CYLINDRICAL SHELLS
RE-182 N64-33553 24-33

ELASTOMER
SA PLASTIC
SA SYNTHETIC RUBBER
MILLABLE POLYURETHANE ELASTOMER COMPOUNDED FOR OPTIMUM STRESS-STRAIN PROPERTIES
RIA-63-2900 N64-12082 03-33

TENSILE STRENGTH OF REINFORCED HIGH TEMPERATURE ELASTOMERS IMPROVED BY USE OF CHEMICALLY MODIFIED FILLERS
AD-405893 N64-12816 04-07

SYNTHESIS OF HEAT RESISTANT ELASTOMERS AND EVALUATION FOR IMPROVED THERMAL STABILITY
RIA-63-3591 N64-12977 04-13

RUPTURE BEHAVIOR OF ELASTOMERS - EFFECT OF VARIANCE ON FAILURE ENVELOPE RESOLUTION AND EFFECT OF CROSSLINK DENSITY ON CURVE SHAPE AND LOCATION
NASA-CR-55213 N64-13160 04-07

CHEMICAL ADDITIVES AND GAMMA RADIATION FOR CURING VINYLIDENE FLUORIDE-HEXAFLUOROPROPYLENE ELASTOMER
REPT.-63-3347 N64-14644 06-07

METHODS FOR REDUCING SURFACE FRICTION OF ELASTOMERIC VULCANIZATES, AND FRICTIONAL DATA FOR POLYTETRAFLUOROETHYLENE COATINGS
NRL-5911 N64-14678 06-19

ELASTOMER RING SEALS FOR LIQUID ROCKET FUEL AND OXIDIZER SYSTEM
ASD-TDR-63-496 N64-16870 08-19

SYNTHESIS OF ELASTOMERS CONTAINING BORON
RIA-64-230 N64-16987 09-07

SYNTHESIS OF ELASTOMERS CONTAINING SILICON-NITROGEN BONDS IN MAIN CHAIN
AD-432392 N64-18309 10-07

PREPARATION OF URETHANE-UREA CAST ELASTOMERS WITH IMPROVED OIL RESISTANCE AND TENSILE STRENGTH
AD-430459 N64-18617 11-07

EFFECT OF FILLER ON VISCOELASTIC PROPERTIES OF ELASTOMERS AND COMPOSITE SOLID ROCKET PROPELLANTS
RK-TR-64-2 N64-18887 11-26

REINFORCED HIGH TEMPERATURE ELASTOMERS
AD-432322 N64-18894 11-19

HIGH TEMPERATURE ELASTOMERIC AND METALLIC SEALS FOR AIRCRAFT HYDRAULIC SYSTEM N64-19022 11-19

THERMALLY STABLE CARBORANE SILOXANE MATERIALS USED AS EMBEDDING COMPOUNDS AND ELASTOMERS - DIELECTRIC MATERIALS
RMD-5038-Q1 N64-19801 12-19

EVALUATION OF SYNTHETIC ELASTOMER SEALANT FOR B-58 AIRCRAFT FUEL TANKS
FGT-3029 N64-20040 13-19

SYNTHESIS OF ELASTOMERS CONTAINING SILICON-NITROGEN BONDS IN MAIN CHAIN
QPR-8 N64-20145 13-07

AGING OF ELASTOMER COMPOUNDS
AD-432369 N64-21067 14-19

ELASTOMERS FOR AIRCRAFT FUEL TANK COATINGS CONTAINING MICROORGANISM RESISTING ADDITIVES
RTD-TDR-63-4195 N64-22282 15-17

RUBBER ELASTICITY OF HIGHLY CROSS-LINKED, PRESWOLLEN NETWORK POLYMERS
ONR-TR-RLT-79 N64-22545 15-19

ELASTOMERIC GASKET MATERIALS FOR CRYOGENIC APPLICATIONS
NASA-CR-56648 N64-24015 16-19

CRYOGENIC TEMPERATURE STATIC ELASTOMER SEAL DESIGN
R-320 N64-24138 16-19

THERMOSTABILITY OF SEALANT ELASTOMERS
WAPD-TM-432 N64-27407 19-19

EFFECTS OF VACUUM & SPACE RADIATION ON ELASTOMERS AND PLASTICS FOR COATINGS, SEALANTS, INSULATION, & LUBRICATION
RSIC-150, VOL.1 N64-27479 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - ELASTOMERS
RSIC-150, VOL. I, APPEND. A N64-27480 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - PLASTICS
RSIC-150, VOL. I, APPEND. B N64-27481 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - COATINGS
RSIC-150, VOL. I, APPEND. C N64-27482 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - STRUCTURAL ADHESIVES
RSIC-150, VOL. I, APPEND. D N64-27483 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - ELECTRICAL INSULATION
RSIC-150, VOL. I, APPEND. E N64-27484 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - LAMINATES
RSIC-150, VOL. I, APPEND. F N64-27485 19-19

SPACE ENVIRONMENTAL EFFECTS ON ELASTOMERIC AND PLASTIC MATERIALS AND COMPONENTS - POTTING COMPOUNDS
RSIC-150, VOL. I, APPEND. G N64-27486 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - SEALS, O-RINGS, AND GASKETS
RSIC-150, VOL. I, APPEND. H N64-27487 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - RADIATION AT CRYOGENIC TEMPERATURES
RSIC-150, VOL. I, APPEND. I N64-27488 19-19

ELASTOMER DEVELOPMENT - PREPARATION OF MONOMERIC MATERIALS AND POLYMERIZATION PROCEDURES
PCR-349 N64-28285 20-07

RHEOLOGICAL BEHAVIOR OF FILLED ELASTOMER - POLYURETHANE RUBBER FILLED WITH GRANULAR POTASSIUM CHLORIDE
TR-23 N64-28582 20-26

REACTION OF SQUALENE /LIQUID HEXAMER/ TO GAMMA RADIATION
USNRDL-TR-671 N64-28871 20-19

CLEAVAGE REACTIONS IN CROSS LINKED URETHANE ELASTOMERS
ONR-TR-RLT-82 N64-28982 20-07

LOW FRICTION COATINGS FOR VULCANIZED ELASTOMERS - BUTYL RUBBER
AD-443073 N64-29656 21-19

SYNTHESIS OF THERMALLY STABLE POLYPHENYLETHER ELASTOMERS
AD-600121 N64-30149 21-07

INFRARED SPECTRA OF PLASTICS AND ELASTOMERS AFTER NUCLEAR IRRADIATION N64-30461 22-19

SYNTHESIS OF THERMALLY AND HYDROLYTICALLY STABLE ELASTOMERS BASED ON CHAINS OF SILICON ATOMS BONDED TO NITROGEN
QPR-9 N64-30582 22-07

ABSTRACTS ON BASIC AND APPLIED RESEARCH AND DEVELOPMENT PROGRAM IN METALS, CERAMICS, NON-METALS, AND ELASTOMERS
WADC-TR-53-373, SUPPL. 10 N64-30936 22-17

SYNTHESIS OF POLYETHER URETHANE ELASTOMERS & THEIR OIL RESISTANCE AND LOW TEMPERATURE FLEXIBILITY
AD-421811 N64-31249 22-19

PREPARATION OF THERMALLY STABLE CARBORANE SILICONE MATERIALS FOR USE AS EMBEDDING COMPOUNDS AND ELASTOMERS
RMD-5026-F N64-31265 22-07

COMPRESSION-SET BEHAVIOR OF IRRADIATED SILICONE ELASTOMERS COMPRESSED AT CONSTANT STRAIN IN AIR
NARF-63-2T N64-31299 22-19

MECHANICAL PROPERTIES OF HIGHLY FILLED ELASTOMERS OF POLYURETHANE RUBBERS
CL/64/49 N64-32289 23-19

ELASTIC STRAIN ENERGY FUNCTIONS FOR COMPRESSIBLE, ISOTROPIC FILLED ELASTOMERS
TR-25 N64-33322 24-33

SYNTHESIS OF THERMALLY AND HYDROLYTICALLY STABLE ELASTOMERS CONTAINING SILICON-NITROGEN BONDS IN MAIN CHAIN
QPR-10 N64-33420 24-07

FILLER-RUBBER SYSTEMS WITH CHEMICAL MODIFICATIONS OF SILICA & FIBROUS TALC EVALUATED AS HIGH TEMPERATURE ELASTOMERS
AD-447815 N64-33673 24-19

LOW TEMPERATURE ELASTIC PROPERTIES OF ELASTOMERS - MODULUS OF RIGIDITY, BRITTLE TEMPERATURE, AND YOUNGS MODULUS.
NASA-TM-X-53137 N64-33871 24-19

ELASTOPLASTICITY
STRESSES & DISPLACEMENTS IN ELASTIC-PLASTIC SHELLS OF REVOLUTION WITH TEMPERATURE-DEPENDENT PROPERTIES
LMSC-6-90-62-123 N64-13325 04-34

PROPAGATION OF ELASTIC-PLASTIC WAVES IN ROD OF FINITE LENGTH
FTD-TT-63-506/1&2 N64-16373 08-23

INTERACTION BETWEEN SHOCK WAVE IN ELASTOPLASTIC MEDIUM AND NONRIGID WALL
FTD-TT-63-360/1&2&4 N64-19199 11-23

ELDO LAUNCH VEHICLE
EUROPEAN SPACE PROGRAM - ENVIRONMENTAL CONDITIONS OF SPACE VEHICLE FROM MANUFACTURE TO ORBITAL LAUNCH - DIAMANT AND ELDO LAUNCHERS
MEMO-2 N64-31350 23-18

ELECTR-N
PLASMA DIAGNOSIS BY MEANS OF PHOTON-ELECTRON SCATTERING
AFCRL-64-242 N64-21314 14-24

ELECTRET
SA BARIUM TITANATE
CF POLARIZATION
VOLTAGE-TIME BEHAVIOR OF CERAMIC ELECTRETS WITH CLOSELY FITTING ELECTRODES
FTD-TT-62-1925/1&2&4 N64-16408 08-19

ELECTRIC ARC
SA PLANOTRON
SA SPARK
MAGNETICALLY ROTATED ELECTRIC ARC AIR HEATER USING STRONG MAGNETIC FIELD AND COPPER ELECTRODES
NASA-TM-D-2032 N64-10347 01-10

HIGH TEMPERATURE PROPERTIES OF CAST TUNGSTEN PRODUCED BY ELECTRIC-ARC MELTING IN VACUUM FURNACE
N64-12446 04-18

ZONE REFINING OF NIOBIUM BY ELECTRIC-ARC
N64-12449 04-17

DISTRIBUTION OF CARBON, IRON, LEAD, AND TUNGSTEN ADDITIONS TO NIOBIUM AFTER ZONE REFINING BY ELECTRIC ARC METHOD N64-13731 05-17

ELECTRIC ARCS, HIGH SPEED PHOTOGRAPHY, ACOUSTIC NOISE SPECTROMETRY, TEMPERATURE MEASUREMENTS, AND SPECTROMETER CONSTRUCTION - PLASMA PHYSICS
LAS-SR-239-3 N64-14777 06-24

EQUILIBRIUM SONIC FLOW METHOD OF EVALUATING ELECTRIC ARC AIR HEATER PERFORMANCE
NASA-TN-D-2132 N64-17154 09-24

TRANSIENT HEAT TRANSFER PROCESS OF MOVING ELECTRIC ARC OVER ELECTRODE
ARL-64-32 N64-19100 11-13

ENERGY LOSSES AND CHARACTERISTICS OF ELECTRIC ARC DISCHARGE FOR WELDING APPLICATIONS
FTD-TT-62-1818/1&2 N64-20310 13-17

HYDROGEN, HELIUM, AMMONIA, AND ARGON GAS FLOW THROUGH ELECTRIC ARC HOT GAS CONTAINMENT LIMITS
ARL-64-49 N64-22306 15-24

ELECTRIC ARC INSTALLATION FOR OBTAINING HIGH TEMPERATURE GAS FLOW
FTD-TT-62-1753/1&2 N64-23400 16-11

ELECTRIC ARC WIND TUNNEL POWER SUPPLY FOR REENTRY STUDIES N64-27107 19-06

EQUILIBRIUM OF HYDROCARBONS IN HIGH TEMPERATURE ENVIRONMENT AND TEMPERATURE MEASUREMENT IN ELECTRIC ARCS N64-28178 20-13

ELECTRIC ARC AIR HEATER DESIGN FOR WIND TUNNEL FACILITY - COMPONENTS, POWER SUPPLY, CONTROL SYSTEMS, AND INSTRUMENTATION
AERODYNAMICS RES. REPT.-202 N64-31049 22-10

MAGNETOHYDRODYNAMIC ARC THRUSTER - JET VELOCITY AND MASS FLOW RATE
AEDC-TDR-64-182 N64-31068 22-24

PERFORMANCE ANALYSIS OF ALTERNATING CURRENT ELECTRIC ARC POWER SUPPLY
NOLTR-63-275 N64-31671 23-10

SHAPE OF ELECTRIC ARC DISCHARGE ROTATED IN ANNULAR GAP BY EXTERNAL MAGNETIC FIELD
NASA-TN-D-2155 N64-32276 23-24

THERMAL ANALYSIS OF ANODE AND CATHODE REGIMES IN ELECTRIC ARC COLUMN
NASA-CR-54119 N64-32691 23-13

ELECTRIC BREAKDOWN
SA VOLTAGE BREAKDOWN
MECHANISM OF ELECTRICAL BREAKDOWN OF SOLID DIELECTRICS IN THIN LAYERS
FTD-TT-62-1927/1&2&4 N64-16409 08-25

PROBABILITY OF NANOSECOND PULSE BREAKDOWN INITIATION AND GROWTH
BDM-82-102 N64-16626 08-09

SPACE ENVIRONMENT AND HIGH FREQUENCY EFFECTS ON BREAKDOWN STRENGTHS OF DIELECTRIC MATERIALS
NASA-CR-56034 N64-20605 13-13

ELECTRIC BREAKDOWN AND ARCING IN ION THRUSTORS FOR POWER SUPPLIES
AIAA PAPER-63-057 N64-20713 13-27

CURRENT AND VOLTAGE MODE CONTRIBUTIONS TO SECONDARY ELECTRIC BREAKDOWN IN TRANSISTORS
USAELRDL-TR-2403 N64-24944 17-09

PHYSICAL MECHANISMS OF GASES - ELECTRICAL BREAKDOWN UNDER INTENSE OPTICAL ILLUMINATION FROM LASER
C-920088-2 N64-27562 19-24

GAP CURRENTS LEADING TO ELECTRIC BREAKDOWN BETWEEN CLEAN AND CESIUM COATED TUNGSTEN ELECTRODES
AIAA PAPER-64-694 N64-28366 20-09

HIGH ALTITUDE ANTENNA VOLTAGE BREAKDOWN DURING RADIATION OF MULTIPLE SIGNALS - MULTIFREQUENCY BREAKDOWN
NASA-CR-58309 N64-29190 21-08

BEHAVIOR OF THIN CESIUM LAYERS ON REFRACTORY METAL SUBSTRATES FOR STUDY OF VOLTAGE BREAKDOWN ACROSS VACUUM GAPS BETWEEN ALKALI-COATED ELECTRODES
NASA-CR-54106 N64-31012 22-25

NANOSECOND-PULSE BREAKDOWN DATA AT MICROWAVE FREQUENCIES OF GASES FOR RADAR TRANSMITTERS
RADC-TDR-64-204 N64-31910 23-24

PROJECTIONS ON ELECTRODES AND THEIR EFFECT ON ELECTRIC BREAKDOWN IN VACUUM
R-192 N64-32974 24-09

ELECTRIC CELL
CF BATTERY
TAPPING OF MOLTEN URANIUM FROM ELECTROLYTIC CELL FOR TRANSFER TO INGOT MOLDS
MCW-1481 N64-10211 01-06

MAGNESIUM SEA WATER CELL WITH BACTERIA COLONIZED / CATHODE
NRL-5990 N64-12825 04-06

LITHIUM-SILVER CHLORIDE CELL USING NONAQUEOUS ELECTROLYTE
RTD-TDR-63-4083 N64-13643 05-06

HYDROGEN-OXYGEN 75-WATT ELECTROLYTIC REGENERATIVE FUEL CELL FOR ORBITAL APPLICATIONS
NASA-CR-55650 N64-15534 07-06

ATTEMPT TO IMPROVE FLUORINE GENERATING ELECTRIC CELL LIFE BY USING CARBON TO CARBON ANODE CONNECTIONS
KY-452 N64-19074 11-17

FISSION HEATED THERMIONIC CONVERTERS
N64-22984 16-09

DIAPHRAGMS FOR SULFATE CYCLE ELECTROLYTIC CELL
NRL-5995 N64-23978 16-06

DESIGN, FABRICATION, AND TESTING OF SEALED, RECHARGEABLE SILVER-CADMIUM CELLS
REPT.-3 N64-32604 23-06

ELECTRIC CONDUCTIVITY
SA SUPERCONDUCTIVITY
CF RESISTANCE
CONDUCTIVITY OF ROCKS AT HIGH TEMPERATURES
JPRS-21649 N64-10070 01-19

ELECTRODELESS DETERMINATION OF ELECTRICAL CONDUCTIVITIES OF MELTS AT ELEVATED TEMPERATURES USING TRANSFORMER EDDY CURRENT METHOD
NAA-SR-8833 N64-10406 01-25

OXIDE SINTERING BY ELECTROCONDUCTIVITY
JPRS-18350 N64-10640 01-09

CONDUCTIVITY AND MELTING CONDITIONS OF SOME ELECTROCONDUCTIVE GLASSES N64-10862 02-19

THERMAL IONIZATION & ELECTRIC CONDUCTIVITY OF SOME COMBUSTION MIXTURES & PRODUCTS N64-11714 03-24

VELOCITY-ELECTRICAL CONDUCTIVITY TRANSDUCER FOR AXISYMMETRIC REENTRY VEHICLES
TDR-269/4810-20/-1 N64-12071 03-02

ELECTRICAL CONDUCTIVITY OF CONDUCTING MEDIUM BY MEASUREMENTS OF JOULE LOSS PRODUCED BY OSCILLATING MAGNETIC FIELD
BSD-TDR-63-201 N64-12250 03-24

EFFECTS OF BODY FORCE & FINITE ELECTRICAL CONDUCTIVITY ON HYDROMAGNETIC STABILITY OF DISCONTINUOUS SHEAR FLOW
RTD-TDR-63-1100 N64-13105 04-24

CONDUCTIVITY AND TRANSPORT NUMBERS FOR ZIRCONIUM OXIDE-CALCIUM OXIDE CERAMIC SYSTEMS
FTD-TT-62-1275/1&2&4 N64-14907 06-23

EFFECT OF X-RAY FLASHES ON ELECTRICAL CONDUCTANCE OF SILICON - CONSTRUCTION AND TESTING OF AMPLIFIER AND ASSOCIATED SHIELDED CABLES
QPR-2 N64-14960 06-09

HYDROMAGNETIC WAVE PROPAGATION IN ATMOSPHERE OF ARBITRARY ELECTRIC CONDUCTIVITY
N64-15119 07-23

GEOLOGIC EXPLORATION BY DIRECT CURRENT RESISTIVITY AND CONDUCTIVITY MEASUREMENTS N64-15413 07-23

TYPES OF MINERALS FAVORABLE TO INDUCED POLARIZATION SURVEYS, AND THEIR ELECTRIC

CONDUCTIVITY & POLARIZATION PROPERTIES
N64-15416 07-12

CHANGES IN MICROSTRUCTURE, HARDNESS, AND ELECTRIC CONDUCTIVITY DURING CREEP IN HIGH TEMPERATURE STEELS
N64-17027 09-18

ANNULAR SLUG FLOW REGIME INVESTIGATED IN VERTICAL UPFLOW WITHOUT HEATING BY USING ELECTRICAL CONDUCTIVITY PROBE
ANL-6796 N64-18510 10-13

MEASURING THERMODYNAMIC PROPERTIES, THERMOELECTRIC POWER, AND ELECTRICAL CONDUCTIVITY OF METAL OXIDES
RTD-TDR-63-4196 N64-18590 11-25

CHANGE IN SPECIFIC ELECTRICAL CONDUCTIVITY OF MINERALS AND ROCKS WITH AGE
JPRS-24960 N64-21287 14-12

ELECTRICAL CONDUCTIVITY OF UPPER ATMOSPHERE
NASA-TT-F-9014 N64-23056 16-12

FREQUENCY CHARACTERISTICS IN OUTPUT CONDUCTIVITY OF JUNCTION TRANSISTORS
N64-24538 17-09

INJECTION & TRANSPORT OF CARRIERS IN SOLID ORGANIC MATERIAL
AROD-4642-1 N64-25516 17-23

THERMAL AND ELECTRICAL CONDUCTIVITIES OF BIOLOGICAL FLUIDS AND TISSUES
GLR-24 N64-25892 18-16

SCALAR ELECTRICAL CONDUCTIVITIES FOR NITROGEN AND ARGON PLASMA IN THERMAL EQUILIBRIUM
AEDC-TDR-64-119 N64-26101 18-24

TEMPERATURE FIELDS IN GAS TURBINE COMPONENTS AND ELECTRIC CONDUCTIVITY OF FLAME
FTD-TT-62-1568/1&2&4 N64-26733 18-13

ELECTRICAL CONDUCTIVITY AND DENSITY OF MOLTEN-SALT ELECTROLYTES - URANIUM TETRAFLUORIDE AND THORIUM FLUORIDE WITH ALKALI FLUORIDES
BM-RI-6500 N64-26844 18-18

DEPENDENCE OF ELECTRICAL CONDUCTIVITY AND HALL COEFFICIENT OF GRAY TIN ON PRESSURE AND TEMPERATURE
HP-10 N64-26854 18-25

CONDUCTIVITY CELLS FOR STRONG ELECTROLYTES TO INDICATE COMPONENT CONCENTRATIONS IN CONTINUOUS PROCESS STREAMS
DP-869 N64-26879 18-06

RADIOTRACER AND ELECTRICAL CONDUCTIVITY MEASUREMENTS OF LUBRICATION INFLUENCE ON ROLLING CONTACT ENDURANCE
AL64T037 N64-27730 19-17

INTERNAL CONSUMPTION AND ELECTRIC CONDUCTIVITY OF SILICATE ALKALI GLASS - BEFORE AND AFTER CRYSTALLIZATION
N64-28045 20-19

ELECTRICAL CONDUCTIVITY OF WATER UNDER SHOCK COMPRESSION
BRL-MEMO-1563 N64-28156 20-11

PRESSURE DEPENDENCE OF ELECTRIC CONDUCTIVITY OF SOLIDS
AD-602044 N64-28515 20-23

ALTERNATING CURRENT CONDUCTIVITY OF PLASMA IN UNIFORM FIELD
NASA-RP-304 N64-29205 21-24

ELECTRIC CONDUCTIVITIES IN ROCK MEDIA DEDUCED FROM QUARTER-WAVE RESONANT FREQUENCIES OF INSULATED MONOPOLE ANTENNA SYSTEMS
AFCRL-64-99 N64-29245 21-12

FLOW OF ELECTRICALLY CONDUCTIVE FLUID IN PLANE MAGNETOHYDRODYNAMIC CHANNEL WITH TRANSVERSE MAGNETIC FIELD
NASA-TT-F-242 N64-29493 21-24

SPIRAL MOTION OF ELECTRICALLY CONDUCTIVE GAS BETWEEN COAXIAL PERMEABLE CYLINDERS IN PRESENCE OF MAGNETIC FIELD
NASA-TT-F-240 N64-29498 21-24

FLOW OF ELECTRICALLY CONDUCTING FLUID IN PLANE CHANNEL
NASA-TT-F-241 N64-29499 21-24

THERMAL AND ELECTRICAL CONDUCTIVITY OF DEGENERATE ELECTRON GAS AND CALCULATIONS FOR COOLING STELLAR PLASMA
AFCRL-64-528 N64-29802 21-09

NONEQUILIBRIUM FLOW FOR INCREASING ELECTRICAL CONDUCTIVITY OF WORKING FLUID IN NUCLEAR PLASMA GENERATOR
N64-30449 22-06

NONEQUILIBRIUM ELECTRICAL CONDUCTIVITY IN ARGON PLASMA SEEDED WITH POTASSIUM VAPOR
AFOSR-64-0848 N64-30480 22-24

ELECTRIC CONDUCTIVITY FORMULA APPLIED TO ELECTRON SCATTERING AND INTERACTION WITH PHONONS
AD-603082 N64-31450 23-23

UNSTEADY FLOW PROBLEMS IN VISCOUS, ELECTRICALLY CONDUCTING FLUID IN MAGNETIC FIELD
NASA-TT-F-9105 N64-31565 23-24

ELECTRICAL CHARGE OF DROPS AS FUNCTION OF PH OR ELECTRICAL CONDUCTIVITY DISPROVED
N64-31763 23-21

SHOCK TUBE METHODS TO MEASURE ELECTRIC CONDUCTIVITY OF GAS IONIZED BY SHOCK WAVE PASSAGE
N64-32939 24-11

AIRBORNE INSTRUMENT FOR ELECTRIC CONDUCTIVITY-VELOCITY MEASUREMENT USING STEADY APPLIED MAGNETIC FIELD
SSD-TDR-64-158 N64-33348 24-15

ELECTRIC CONDUCTIVITY OF POLYMERIC PHTHALOCYANINES SYNTHESIZED FROM PYROMELLITIC ACID
T-R-433 N64-33432 24-19

TURBULENCE DEVELOPMENT OF ELECTRICALLY CONDUCTING MEDIA - HOMOGENEOUS AND ELECTROSTATIC TURBULENCE - CHEMICAL APPROACH TO HOT WAKES
JHU-23-P N64-33491 24-24

FREQUENCY-DEPENDENT ELECTRICAL CONDUCTIVITY OF POWDERED NICKEL OXIDE DOPED WITH CHROMIUM
GA-4494 N64-33599 24-25

NONUNIFORM PLASMA ELECTRIC CONDUCTIVITY MEASUREMENT USING SALT SOLUTIONS
NOLTR-63-165 N64-33966 24-24

ELECTRIC CONDUCTOR
SA DIELECTRICS
CRYOGENIC COATING FOR ELECTRICAL CONDUCTORS
NASA-CR-52931 N64-12101 03-19

MAGNETIC, ELECTRICAL INSULATION, ELECTRICAL CONDUCTOR, AND BORE SEAL MATERIALS FOR ADVANCED SPACE ELECTRIC POWER SYSTEMS
NASA-CR-54041 N64-22244 15-17

ELECTRICAL CONDUCTOR, ELECTRICAL INSULATION, BORE SEAL AND MAGNETIC MATERIALS FOR SPACE POWER SYSTEMS APPLICATION
NASA-CR-54089 N64-25010 17-17

EXAMINATION AND TESTING OF ELECTRIC CONDUCTOR CONTROL CABLE
REPT.-391111 N64-28122 20-17

INTERFERENCE-SUPPRESSING POWER CONDUCTOR
R-275 N64-28901 20-08

DIELECTRIC COATINGS FOR ELECTRIC CONDUCTORS FOR USE AT CRYGENIC TEMPERATURES
NASA-CR-58502 N64-28958 20-17

THERMAL AGING AND MOISTURE EXPOSURE EFFECTS ON DIELECTRIC COATINGS OF ELECTRIC CONDUCTORS - FLEXIBILITY TESTS AT CRYOGENIC TEMPERATURES
NASA-CR-58539 N64-28962 20-17

LOW TEMPERATURE COATINGS FOR ELECTRICAL CONDUCTORS - ROUND WIRE AND RIBBON CABLES
NASA-CR-58573 N64-29565 21-17

ELECTRIC CURRENT
SA ALTERNATING CURRENT /AC/
SA DIRECT CURRENT /DC/
SA EDDY CURRENT
SA LIGHTNING
SHORT-CIRCUITED-RING ELECTRODYNAMIC AMMETER FOR ESTABLISHING ACCURATE ABSOLUTE STANDARD OF CURRENT AT HIGH FREQUENCIES N64-10463 01-09

CURRENT PASSAGE THROUGH A PLASMA DIODE WITH HEATED CATHODE FOR MAGNETOGASDYNAMIC ENERGY CONVERSION
JPRS-19408 N64-10821 02-24

EFFECT OF COLLISION ON COUPLING BETWEEN PLASMA ION OSCILLATIONS AND ELECTRIC CURRENTS
MATT-176 N64-11473 03-24

WORKING CONDITION EVALUATION & HEALTH STATUS OF PERSONNEL DEALING WITH ULTRAHIGH FREQUENCY ELECTRIC CURRENTS N64-11858 03-16

SEMICONDUCTOR LASER PUMPED BY ELECTRICAL CURRENT - GALLIUM ARSENIDE N64-12569 04-25

ELECTROMAGNETIC VIOLATION OF CONSERVATION OF VECTOR CURRENT
URPA-16 N64-13904 05-23

POTENTIOMETRIC CONCENTRATION STUDY OF MERCURY, CADMIUM, LEAD, AND ZINC HALIDE CELLS
NAA-SR-881 N64-14083 05-23

CALCULATION OF DISTRIBUTION OF CURRENT DURING FLOW OF CONDUCTING LIQUIDS THROUGH CHANNELS IN MAGNETIC FIELDS
FTD-MT-63-8 N64-18663 11-23

RELAXATION OF MAMMALIAN SMOOTH MUSCLE BY ELECTRIC CURRENT STIMULATION
FR-2 N64-19086 11-16

ATMOSPHERIC ELECTRIC CURRENT FLOW AND CONDUCTIVITY
USAELRDL-TR-2394 N64-19375 12-23

BULK RELIABILITY EFFECTS IN SEMICONDUCTOR DEVICE - CURRENT CROWDING IN TRANSISTORS
USAELRDL-TR-2333 N64-20334 13-09

PRECISION CURRENT LIMITER
NASA-CR-56085 N64-20629 13-06

VARIATION OF HALL CURRENTS WITH MAGNETIC FIELD FOR VARIOUS CONSTANT AXIAL CURRENTS
N64-20700 13-25

DIFFUSION RATE EFFECT ON CESIUM & POTASSIUM PLASMA AFTER PASSAGE OF CURRENT
MATT-259 N64-22109 15-24

PHOTOGRAPHY & VISUAL OBSERVATION USING HIGH FREQUENCY CURRENTS
FTD-TT-62-1549/1&2&4 N64-23286 16-09

MEASUREMENT OF STEADY ELECTRIC CURRENTS IN EARTH CORE
NASA-CR-56447 N64-24038 16-29

ERRORS OF MULTIPLIER & SUMMING CIRCUIT OF POTENTIOMETRIC COMPUTERS N64-24517 17-09

INTRINSIC SHORT-CIRCUIT CURRENT GAIN OF DIFFUSED BASE TRANSISTOR
TR-400-94 N64-25376 17-09

ELECTRICAL DISPERSION OF LIQUIDS - TECHNIQUE FOR GENERATING A CHARGED COLLOID BEAM
APL-TDR-64-75 N64-27961 20-07

INSTRUMENT FOR MEASURING ROOT-MEAN-SQUARE CURRENT IN ELECTRIC FIRING CIRCUITS FOR ASSESSMENT OF INDUCED CURRENT HAZARD
WRE-TN-EID-56 N64-28718 20-15

CURRENT AND VOLTAGE BEHAVIOR OF SILICON CELLS SUBJECTED TO LOW ENERGY PROTON IRRADIATION
N64-29155 21-06

AUTOMATIC DC THERMISTOR BRIDGE FOR ACCURATE CURRENT MEASUREMENT N64-29210 21-15

TRANSISTORIZED CURRENT STABILIZATION CIRCUITS
N64-29456 21-09

KADOMTSEV INTERACTION OF HYDROMAGNETIC WAVE AND ELECTRIC CURRENT IN HIGHLY IONIZED HELIUM PLASMA
ATN-64/9230/-2 N64-30007 21-24

HIGH CURRENT AND HIGH VOLTAGE SILICON CONTROLLED RECTIFIERS
QPR-5 N64-31226 22-09

APPARATUS FOR ELECTRONIC DIFFERENTIATION OF CURRENT-VOLTAGE CHARACTERISTICS
NASA-TN-D-2161 N64-31730 23-15

CURRENT DEGRADATION PHENOMENON IN SUPERCONDUCTING SOLENOIDS
NASA-CR-59369 N64-33921 24-25

ELECTRIC DISCHARGE
SA LIGHTNING
SA SPARK
CF GAS DISCHARGE
CF GLOW DISCHARGE
COMPARATIVE STUDY OF IONIZING RADIATION AND ELECTRIC DISCHARGES ON ORGANIC COMPOUNDS - METHANE, AMMONIA AND WATER N64-11117 02-07

DESTRUCTIVE EFFECT OF ELECTRICAL PULSE DISCHARGE IN WATER ON CONCRETE & CHALK
FTD-TT-63-385/1&2 N64-12314 03-23

MOTION PICTURE AND TRANSDUCER STUDIES OF PRESSURE WAVE FROM SUBMERGED ELECTRIC DISCHARGE
GMRI-644.00 N64-13209 04-23

GAS FLOW IN SHOCK WAVE RESULTING FROM ELECTRIC DISCHARGE N64-16601 08-24

MAGNETIC FIELD VARIATIONS IN LIGHTNING DISCHARGES
AFCRL-64-78 N64-18630 11-23

FORMATION OF CATHODE SPOTS AND CURRENT DENSITY DISTRIBUTION IN CATHODE SPOTS OF SHORT-TIME HIGH INTENSITY ELECTRIC DISCHARGE
FTD-TT-63-1071/1&2 N64-19752 12-23

HIGH PERFORMANCE ELECTROSTATIC DISCHARGER FOR HELICOPTER
DCR-113 N64-21237 14-06

METAL FORMING BY CAPACITOR BANK DISCHARGES - SWAGING AND ELECTROHYDRAULIC FORMING
RN-175 N64-23225 16-09

ELECTRIC DISCHARGE TREATMENT OF METALS - CRYSTAL STRUCTURE DEFECTS, RESIDUAL STRESSES AND MACHINING METHODS
JPRS-25054 N64-23501 16-18

RESIDUAL STRESSES AND MECHANICAL PROPERTIES OF HEAT RESISTANT ALLOYS AFTER ELECTRIC DISCHARGE TREATMENT N64-23503 16-18

SURFACE LAYER STRUCTURE CHANGES IN STEELS & OTHER ALLOYS AFTER ELECTRIC DISCHARGE CUTTING
N64-23504 16-18

COMPARISON OF ION BEAM DRILLING AND ELECTRIC DISCHARGE PERFORATION OF METALS
N64-23506 16-18

COLOR PHENOMENA IN AFTERGLOWS AND ATOMIC FLAMES FROM ELECTRIC DISCHARGES N64-24146 16-23

AXIAL FLOW FROM END OF METALLIC CYLINDER BOUNDED BY INSULATING WALL UNDER CAPACITOR DISCHARGE CONDITIONS
SID-64-874 N64-26465 18-24

CATHODE SPOTS IN HIGH CURRENT ELECTRIC DISCHARGE
FTD-TT-64-152/1&2&4 N64-26730 18-09

INFLUENCE OF GAS STREAMS AND MAGNETIC FIELDS ON

ELECTRIC DISCHARGES - ARCS AT ATMOSPHERIC PRESSURE IN ANNULAR GAPS
ARC-CP-743 N64-29236 21-24

ELECTRIC DISCHARGE ARC LOSS IN HELIUM AS FUNCTION OF GAS PRESSURE AND TRANSVERSE MAGNETIC FIELD - RADAR GAS DUPLEXERS
RADC-TDR-64-229 N64-29828 21-24

OXYGEN ISOTOPE SEPARATION WITH OZONE ELECTROSYNTHESIS
FTD-TT-64-326/1&2 N64-31107 22-07

ACTIVE ELECTROSTATIC DISCHARGER WITH LOW RADIO FREQUENCY INTERFERENCE FOR FIXED AND ROTARY WING AIRCRAFT
DCR-131 N64-31931 23-04

CHARACTERISTICS OF HYDROCARBONS FROM LOW FREQUENCY ELECTRIC DISCHARGE IN METHANE
NASA-RP-361 N64-33991 24-29

ELECTRIC ENERGY
BIOCHEMICAL FUEL CELL FOR ELECTRICAL ENERGY PRODUCTION FROM METABOLIC FECES-URINE WASTE MIXTURE
NASA-CR-52813 N64-11299 02-06

CONVERTING CHEMICAL ENERGY INTO ELECTRICAL ENERGY
NASA-TT-F-136 N64-12692 04-06

DIRECT CONVERSION OF ATOMIC ENERGY TO ELECTRICAL ENERGY - FISSION-BLECTRIC CELL PROJECT
RM-3908-PR N64-13072 04-06

HYPERSONIC PLASMA GENERATOR FOR THERMAL-TO-ELECTRICAL ENERGY CONVERSION
SC-4960/RR/ N64-13901 05-24

ENERGY STORAGE CAPACITY AND LIFESPAN OF NICKEL-CADMIUM BATTERIES
NASA-CR-55627 N64-16103 07-06

ELECTROLYTE SELECTION FOR HIGH ENERGY DENSITY STORAGE BATTERY
NASA-CR-55743 N64-16268 08-06

FUEL CELLS AS ENERGY STORAGE AND CHEMICAL REACTOR DURING SPACE FLIGHTS N64-17402 09-06

POWER CONVERSION BY MAGNETOHYRODDYNAMIC ELECTRIC POWER GENERATION N64-19385 12-24

TRANSFORMATION OF DYNAMIC ENERGY INTO ELECTRICAL ENERGY BY ELECTRO-FLUID DYNAMIC PROCESSES - POWER CONVERSION
ARL-64-61 N64-21981 15-11

MECHANICAL ENERGY CONVERSION TO ELECTRIC ENERGY BY VARIATION OF MAGNETIC RELUCTANCE
NOLTR-63-233 N64-25209 17-06

BIOCHEMICAL FUEL CELLS FOR DEGRADING HUMAN WASTE AND PRODUCING ELECTRICAL ENERGY
NASA-CR-56231 N64-25769 17-06

INDUCTIVE ENERGY STORAGE SYSTEM USING IGNITION SWITCHES
MATT-264 N64-26455 18-09

CAPACITOR ENERGY STORAGE, DYNAMIC PULSE SYSTEMS, AND ELECTROCHEMICAL PULSE SYSTEMS
IDA/HQ-63-1415 N64-27101 19-06

VOLTAGE, CAPACITANCE, DUTY, LIFESPAN, AND INDUCTANCE EFFECTS ON COST AND SIZE OF CAPACITORS FOR ENERGY STORAGE APPLICATIONS
N64-27102 19-06

CAPACITOR ENERGY STORAGE FACILITIES FOR HIGH ENERGY PULSE GENERATION N64-27103 19-06

VERY HIGH ENERGY STORAGE SYSTEMS TO SUPPLY POWER TO EXPLODING WIRE LOAD N64-27104 19-06

DESIGN OF MULTIMEGAJOULE ENERGY STORAGE CAPACITOR BANKS N64-27105 19-06

POTENTIAL CAPABILITY OF SILVER OXIDE-ZINC ALKALINE COUPLE - ENERGY STORAGE N64-27108 19-06

PRINTED BATTERY PLATE TECHNIQUES AND RESULTS - ENERGY STORAGE N64-27109 19-06

ENERGY GENERATION OR LONG DURATION STORAGE BY FLYWHEEL GENERATOR N64-27115 19-06

GENERATION OF HIGH ENERGY PULSES AND STORAGE OF ELECTRICAL ENERGY N64-27116 19-06

SOLAR-ELECTRIC ENERGY CONVERSION WITH INTERMEDIATE STORAGE N64-29491 21-06

THREE-PHASE SYNCHRONOUS GENERATOR WITH MAGNETIC FLUX THROWOVER AS SOURCE OF HIGH FREQUENCY ELECTRIC ENERGY
FTD-TT-64-486/1&2 N64-30878 22-06

GALVANIC CELL CONVERSION OF HEAT TO ELECTRICAL ENERGY
IITRI-C6006-10 N64-33715 24-06

ELECTRIC EQUIPMENT
SA Q-FACTOR
SOVIET PATENTS FOR ELECTRIC, ELECTRONIC, AND ELECTROMECHANICAL EQUIPMENT
JPRS-21953 N64-10851 02-09

LOW FREQUENCY ELECTRICAL PROSPECTING - GEOLOGICAL SURVEY N64-11497 03-12

MICROWAVE WATTMETER WITH MILLIWATT MEASUREMENT CAPABILITY
FTD-TT-63-992 N64-12627 04-15

OPTIMAL CONSUMPTION OF ELECTRIC POWER IN ELEMENTS OF RADIO APPARATUS N64-12736 04-09

ELECTRICAL EQUIPMENT FOR CODING AND COMPUTER SYSTEMS
EB-5261-0341-2 N64-13210 04-08

APPLICATION OF INSULATING MATERIALS AND DIELECTRICS TO ELECTRICAL MACHINERY AND DEVICES
N64-14193 06-01

METHODS AND PRINCIPLES OF ELECTRICAL GEOLOGIC EXPLORATION
JPRS-23207 N64-15412 07-12

ELECTRIC EQUIPMENT FOR HELICOPTERS TO MEASURE AEROLOGIC CONDITIONS
FTD-TT-63-632/1&2 N64-16381 08-15

SPECIFICATION OF MATERIALS FOR LOW LEVEL ELECTRICAL CONTACTS - SPACE VEHICLE AND GROUND SUPPORT EQUIPMENT
NASA-CR-53901 N64-19901 12-09

ELECTRIC EQUIPMENT - DEVICE FOR REPRODUCTION AND MEASUREMENT OF SHORT TIME INTERVALS
FTD-TT-64-4/1 N64-21664 15-08

JOINTING OF METAL TO PORCELAIN FOR PRODUCTION OF ELECTRIC EQUIPMENT N64-27046 19-17

TEST PROGRAM FOR MINUTEMAN ICBM MAINTENANCE GROUND EQUIPMENT - ELECTRONIC EQUIPMENT TESTING
REPT.-00-264997 N64-27916 20-10

ELECTRICAL HEATER ERROR IN ROCKING-BOMB SOLUTION CALORIMETERS
UCRL-7992 N64-31057 22-13

TEST PLAN FOR X-22A AIRCRAFT - DESCRIPTIONS AND SPECIFICATIONS FOR PROPULSION SYSTEM, FLIGHT CONTROL, HYDRAULIC SYSTEM, ELECTRIC SYSTEM, AND INSTRUMENTATION
REPT.-2127-931001 N64-31306 22-04

GROUND ELECTRODES FOR ELECTRIC EQUIPMENT, POWER SUPPLY, AND TRANSMISSION SYSTEMS
N64-32014 23-12

TRANSMISSION LINKS FOR AEROSPACE VEHICLES - SOLID

STATE ELECTRICAL POWER CONTROL AND DISTRIBUTION SYSTEMS
ASD-TDR-63-805 N64-32086 23-06

ECTRIC FIELD
SA ELECTROMAGNETISM
SA FIELD EMISSION
SA SPARK GAP
SOVIET RESEARCH PAPERS ON GEOMAGNETIC FIELD MAGNETOTELLURIC SOUNDING AND PROFILING, AND EARTH DISTORTION OF ELECTRIC FIELD
JPRS-21641 N64-10162 01-12

DISTORTING INFLUENCE OF EARTH-AIR DISCONTINUITY ON ELECTRIC FIELD OF VERTICALLY POLARIZED SPHERE
N64-10166 01-12

ELECTROCARDIOGRAPHIC EUNCTIONS IN CLINICAL MEDICINE OF HUMAN BODY ELECTRIC FIELDS
JPRS-19030 N64-11123 02-16

CALCULATION OF LOW FREQUENCY DIPOLE FIELD IN FAR ZONE ABOVE THREE-LAYER SECTION OF EARTH CRUST - GEOLOGICAL SURVEY N64-11488 03-23

POTENTIAL DISTRIBUTION OF POINT SOURCE FIELD IN PRESENCE OF TWO INTERFACES BETWEEN THREE HORIZONTAL LAYERS - GEOLOGICAL SURVEY
N64-11495 03-23

EFFECT OF AIR-GROUND BOUNDARY ON ELECTRICAL FIELD OF VERTICALLY POLARIZED, IDEALLY CONDUCTING, UNDERGROUND SPHERE - GEOLOGICAL SURVEY
N64-11496 03-12

APPROXIMATION OF EXTERNAL CONDITIONS OF ELECTRO-MAGNETISM BY MEASURING TANGENTIAL COMPONENTS OF ELECTRIC FIELD
E-I-I-63-1 N64-11937 03-23

CHARGING TIME IN APPLIED ELECTRIC FIELD FOR ALKALI METALLIC COLLOIDS
NASA-TN-D-2078 N64-12106 03-23

ELECTRON TEMPERATURE EFFECT IN PLASMA HEATED BY STRONG INHOMOGENEOUS ELECTRIC FIELD
AFCRL-63-377 N64-12197 03-24

ELECTRIC FIELD GRADIENT TENSOR AT IRON NUCLEUS IN FERROUS COMPOUNDS
AD-425685 N64-12990 04-09

ANALYSIS OF ELECTRIC-FIELD EFFECT AND CALCULATION OF PLASMA TEMPERATURE IN PARTLY IONIZED GASES NEAR THERMAL EQUILIBRIUM
RE-OR-4 N64-13226 04-23

AURORA PRODUCTION IN WEAKLY IONIZED GAS BY ACTION OF ALTERNATING ELECTRIC FIELD
AFCRL-63-641 N64-13652 04-12

TORSIONAL MAGNETOELASTIC WAVES IN CIRCULAR CYLINDER IN MAGNETIC FIELD WITH & WITHOUT STEADY ELECTRIC FIELD
E-118.3 N64-14027 05-23

ELECTRODYNAMICS OF HELIUM SUPERFLUID FLOW AND ELECTRIC FIELD INVESTIGATION OF LIQUID AND SOLID HELIUM STRUCTURES
NASA-CR-55303 N64-14277 06-23

MOTION OF CONDUCTIVE VISCOUS GAS IN MAGNETIC & ELECTRIC FIELDS
FTD-TT-63-202/162 N64-16360 08-23

ELECTRIC FIELD IONIZATION INTENSITY OF LAMINATED DIELECTRIC MADE OF IMPREGNATED PAPER
FTD-TT-62-1263/1&2&4 N64-16393 08-23

ELECTRIC CHARGE DEFECT MOBILITY IN ELECTRIC FIELD OF SEMICONDUCTOR P-N JUNCTION N64-18129 10-25

ELECTRIC FIELD ATTENUATION MEASUREMENTS FOR RADIO FREQUENCY SHIELDED EQUIPMENT
NASA-TM-X-51534 N64-18290 10-09

UNCOUPLING PROCEDURE FOR CHARGE TRANSPORT AND ELECTRIC FIELD EQUATIONS IN PARALLEL PLATE ION CHAMBER
RTD-TDR-63-3063 N64-19001 11-23

VISCOELECTRIC MAGNETOHYDRODYNAMIC ANALOGY
N64-19832 12-24

INTERACTION OF HIGH DENSITY PLASMA WITH ELECTRIC, MAGNETIC, AND FLUID DYNAMIC FIELDS
ARL-64-34 N64-20452 13-24

MEASURING NATURAL ELECTRICAL FIELD AT SEA
JPRS-24989 N64-21613 15-12

USE OF GREEN FUNCTION TO DETERMINE ELECTRIC FIELD DISTRIBUTION OF CONDUCTOR ABOVE SUPERCONDUCTING GROUND PLANE
NASA-RP-187 N64-22067 15-25

PLASMA PHYSICS - STRUCTURE OF DISTURBANCE ZONE NEAR ELECTRIC FIELD IN PLASMA
NASA-TT-F-9013 N64-22943 16-24

BEHAVIOR OF ELECTRIC FIELD BETWEEN SPARK CHAMBER PLATES AS FUNCTION OF TIME AND POSITION
LNF-64/11 N64-23172 16-23

TRANSPORT PROPERTIES OF PARTIALLY IONIZED GAS IN ELECTRIC AND MAGNETIC FIELDS
NASA-TN-D-2369 N64-24820 17-13

DISTRIBUTION OF ELECTRIC AND MAGNETIC FIELDS IN ROTATING PLASMA IN THERMODYNAMIC EQUILIBRIUM
NASA-TT-F-8690 N64-25070 17-24

ELECTRON BEAM COMPRESSION USING ELECTRIC AND MAGNETIC FIELDS
NSF-6 N64-25113 17-23

ELECTRIC FIELDS FROM AIRBORNE VERTICAL AND HORIZONTAL DIPOLE ANTENNAS AT VERY LOW FREQUENCIES
EE-105 N64-25520 17-09

SWEEP OSCILLATOR TO GENERATE ALTERNATING ELECTRIC FIELD OF CONSTANT AMPLITUDE FOR OMEGATRON MASS SPECTROMETER N64-26967 19-15

INFLUENCE OF SYMMETRY ON OPTICAL SELECTION AND LINE INTENSITY CHANGE BY ELECTRIC FIELD TO REDUCE SYMMETRY
ML-973 N64-27234 19-23

TRANSPORT PROPERTIES OF PARTIALLY IONIZED GAS IN PRESENCE OF ELECTRIC AND MAGNETIC FIELDS
NASA-CR-58210 N64-27878 20-24

MAGNITUDE OF ELECTRIC DRAG ON SATELLITES
NASA-RP-280 N64-28301 20-02

CROSSED ELECTRIC AND MAGNETIC FIELDS USED TO FOCUS BEAM OF CHARGED PARTICLES AND CONTROL DRIFT VELOCITY
R-214 N64-28503 20-08

LIGHTNING DISCHARGE CAUSED BY STATIONARY ELECTRIC FIELD INSIDE THUNDERSTORM
USAELRDL-TR-2401 N64-28601 20-21

NONTHERMAL EFFECT OF ALTERNATING ELECTRICAL FIELDS ON BIOLOGICAL STRUCTURES
AD-600263 N64-28812 20-16

DETERMINATION OF PROPERTIES OF PLASMA BY INTERACTION WITH APPLIED ELECTRIC OR MAGNETIC FIELD
AFOSR-64-1000 N64-30695 22-24

HIGH FIELD TRANSPORT IN ALKALI HALIDE INSULATORS
ARDD-4017-4 N64-31118 22-25

MOMENTUM TRANSFER THROUGH ELECTRIC FIELDS - ION ENGINE APPLICATION N64-31609 23-27

LATITUDINAL DISTRIBUTION AND VARIATION OF ATMOSPHERIC ELECTRICITY ELEMENTS
N64-31770 23-21

COMPARATIVE INVESTIGATION OF VARICAP AND FERROELECTRIC IN DECIMETER BAND - MICROWAVE-CONTROLLED DEVICES N64-32916 24-09

SOLID HOMOGENEOUS AEROSOL PRODUCTION BY ELECTRICAL ATOMIZATION
UR-652 N64-33069 24-11

WAVE EQUATION & GREEN FUNCTION FOR ELECTRIC FIELD IN MOVING MEDIUM - PHASE VELOCITY OF DIPOLE
NASA-CR-59185 N64-33163 24-23

USE OF ANNIHILATION FOR SETTING IN MOTION PHOTON ROCKETS - NASCENT BEAM FOCUSING USING ELECTRIC AND MAGNETIC FIELDS
NASA-TT-F-8969 N64-33377 24-27

WATER VAPOR CONDENSATION TO SOLID STATE IN ELECTRIC FIELD IN PRESENCE OF IONS
FTD-TT-64-548/1&2 N64-33941 24-23

ELECTRIC INSPECTION
S MAGNETIC MEASUREMENT

ELECTRIC INSULATION
SA DIELECTRICS
PROPERTIES OF ELECTRIC INSULATED PLASTICS OF PHENOL-FORMALDEHYDE AND CARBAMIDE RESINS
JPRS-19519 N64-11218 02-19

EFFECTS OF ATMOSPHERIC ENVIRONMENT ON ELECTRICAL FIRE HAZARDS N64-20748 14-26

MAGNETIC, ELECTRICAL INSULATION, ELECTRICAL CONDUCTOR, AND BORE SEAL MATERIALS FOR ADVANCED SPACE ELECTRIC POWER SYSTEMS
NASA-CR-54041 N64-22244 15-17

ELECTRIC PROPERTIES OF CERAMIC ALUMINUM OXIDE INSULATOR N64-22981 16-09

ELECTRICAL CONDUCTOR, ELECTRICAL INSULATION, BORE SEAL AND MAGNETIC MATERIALS FOR SPACE POWER SYSTEMS APPLICATION
NASA-CR-54089 N64-25010 17-17

EFFECT OF ELECTRICAL INSULATION MATERIALS ON PROTECTIVE METAL FINISHES UNDER CONDITIONS OF HEAT AND MOISTURE
RIA-64-728 N64-25513 17-09

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - ELECTRICAL INSULATION
RSIC-150, VOL. I, APPEND. E N64-27484 19-19

DIELECTRIC PROPERTIES OF ELECTRICAL INSULATING MATERIALS AT VERY LOW FREQUENCIES
N64-28518 20-07

IMPROVEMENT IN ELECTRICAL STRENGTH AND QUALITY OF ELECTRIC INSULATION IN DIELECTRICS AND SEMICONDUCTORS
FTC-TT-64-546/1 N64-29987 21-25

ELECTRIC MOMENT
S MAGNETIC MOMENT
S POLARIZATION

ELECTRIC MOTOR
SA COMMUTATOR
PROPERTIES OF ALTERNATING CURRENT MOTORS
N64-13587 05-06

BRUSHLESS DC MOTOR FOR SATELLITE APPLICATION
NASA-TN-D-2108 N64-15908 07-06

PRODUCTION TECHNOLOGY FOR MINIATURE ELECTRIC GYROSCOPE MOTORS
FTD-TT-62-859/1&2 N64-15948 07-17

COLLECTORLESS ELECTRIC MOTOR GENERATING DIRECT CURRENT
FTD-TT-63-487/1&2 N64-22650 15-06

RELIABILITY AND FAILURE ANALYSIS OF ELECTRIC MOTORS
FTD-TT-63-35/1&2 N64-23414 16-09

RELIABILITY OF ELECTRIC MOTORS
FTD-TT-63-36/1&2 N64-23415 16-09

OPTIMUM ACCLERATION OF ELECTRIC MOTOR FOR PROGRAMMED CONTROL SYSTEMS N64-23537 16-09

ELECTROMAGNETIC TORQUE OF TWO-PHASE ASYCHRONOUS MOTOR FOR AUTOMATIC CONTROL SYSTEMS
N64-23538 16-09

OPERATIONAL ANALYSIS OF AIRCRAFT ELECTRICAL MOTORS
FTD-TT-63-117/1&2 N64-23569 16-09

CALCULATION OF ELECTRICAL MACHINES WITH SCREENING ELECTROMAGNETIC WAVE EFFECT N64-23573 16-09

SYNCHRONIZATION OF INTEGRAL REGULATOR FOR ROTATION SPEED OF DIRECT CURRENT MOTORS N64-23574 16-09

MOMENTUM AND ROTATION SPEED OF ELECTRIC MOTORS
N64-23575 16-09

ELECTRIC MOTOR OF RECIPROCATING MOTIONS
N64-23577 16-09

AIRCRAFT ELECTRIC EQUIPMENT, MOTORS, AND GENERATORS - TEXTBOOK
FTD-TT-63-209/1&2 N64-28287 20-06

REACTION WHEEL USING BRUSHLESS DIRECT CURRENT ELECTRIC MOTOR
NASA-CR-58773 N64-32888 24-17

ELECTRIC NETWORK
SA TRANSMISSION LINE
IONIC PROPULSION - ELECTRICAL NETWORK WITHIN DIGITAL COMPUTERS FOR DETERMINING ELECTRON TRAJECTORIES
ONERA-TN-73 N64-12916 04-23

PERFORMANCE OF ELECTRICAL CIRCUIT WITH VACUUM PHOTOTUBE AT REDUCED VOLTAGE-SUPPLYING CURRENT TO INCANDESCENT LAMP N64-13567 05-09

TIME-DOMAIN SYNTHESIS PROBLEM AND APPLICATION TO ELECTRICAL NETWORK THEORY
AFCRL-64-191 N64-20842 14-23

EQUIRIPPLE TRANSMISSION LINE NETWORK
PIBMRI-1089-62 N64-21108 14-09

TRANSISTOR BRIDGE NETWORK - USE OF BASIC DIAMOND CIRCUIT AND ITS DERIVATIVES IN DESIGN OF DATA PROCESSING SYSTEMS
MIT-TR-300 N64-21457 14-09

ELECTRICAL SWITCHGEAR FOR SPACE NUCLEAR ELECTRICAL SYSTEMS
NASA-CR-54059 N64-24054 16-09

VOLTAGE AND CURRENT TRANSFER FUNCTIONS OF DISTRIBUTED RESISTANCE-CAPACITANCE NETWORKS
AFCRL-64-288 N64-24135 16-09

USE OF SENSITIVITY AS CRITERION IN SYNTHESIS OF ACTIVE NETWORKS
AL-TDR-64-165 N64-28545 20-09

ELECTRIC NETWORK SYNTHESIS THROUGH HYBRID MATRICES
AFCRL-63-568 N64-30959 22-09

ELECTRIC POTENTIAL
SA VOLTAGE
ELECTRIC POTENTIAL TECHNIQUE FOR DETERMINING SLOW CRACK PROPAGATION
AMRA-TR-63-27 N64-18271 10-23

VARIABILITY OF PRIMARY EVOKED POTENTIALS RECORDED UNIPOLARLY FROM CORTICAL SURFACE OF CAT IN STATE OF NARCOSIS - ELECTROPHYSIOLOGY
N64-31541 23-16

ORIGIN OF POSITIVE COMPONENT OF EVOKED POTENTIAL OF TECTUM OPTICUM OF TOAD - ELECTROPHYSIOLOGY
N64-31542 23-16

VARIATION OF ELECTRICAL POTENTIAL GRADIENT OF ATMOSPHERE FROM ANTARCTIC MEASUREMENTS
N64-31765 23-21

ELECTRIC POWER CONVERSION
SA MAGNETOHYDRODYNAMIC GENERATOR
HIGH EFFICIENCY DC TO DC CONVERTER WITH 59 WATTS

OUTPUT
NASA-CR-52708 N64-11076 02-06

FUEL CELLS FOR CENTRAL ELECTRICAL STATION POWER
N64-17403 09-06

TRANSISTOR DEVICE FOR LOW INPUT VOLTAGE CONVERSION
N64-17428 09-06

THERMOELECTRIC AND HYDROELECTRIC POWERPLANTS AND TRANSMISSION LINE NETWORKS FOR NATIONWIDE ELECTRIC POWER SYSTEM IN RUSSIA
FTD-TT-63-820/1&2 N64-22179 15-10

POWER CONVERSION AND GENERATION TECHNIQUES TO SUPPLY HIGH FREQUENCY ELECTRIC POWER TO ACCELERATE PLASMAS IN ELECTRIC PROPULSION ENGINE
APL-TDR-64-53 N64-22291 15-06

ELECTRICAL POWER SYSTEMS FOR SPACE MISSIONS
NASA-RP-210 N64-24528 17-09

LIGHTWEIGHT SOLAR COLLECTORS FOR CONVERSION OF THERMAL ENERGY TO ELECTRICITY
NASA-RP-223 N64-24556 17-05

COMBINED SOLAR HYDROGEN PROPULSION AND ELECTRIC POWER SYSTEM
NASA-CR-58181 N64-26578 18-27

ELECTRIC POWER CONVERSION, GENERATION, CONTROL, & TRANSMISSION FOR SPACE VEHICLES
NASA-CR-58051 N64-27879 20-06

ELECTRIC POWER CONVERSION FOR SPACE VEHICLES
N64-30448 22-06

PRODUCTION OF HIGH ENERGY, SHORT DURATION PULSES OF ELECTRICAL POWER BY MAGNETOHYDRODYNAMIC GENERATOR
AHD-655 N64-32069 23-24

EXPLOSIVE DRIVEN MAGNETOHYDRODYNAMIC GENERATOR FOR ELECTRIC POWER CONVERSION
AB-R-63197 N64-33357 24-06

SILICON CONTROL RECTIFIER INVERTER CIRCUITS FOR ELECTRICAL POWER CONVERSION SYSTEMS AND CIRCUIT PROTECTION FOR SATELLITES
NASA-CR-50937 N64-33779 24-06

ELECTRIC PROPERTY
SA CAPACITANCE
SA HYSTERESIS
SA IMPEDANCE
SA INDUCTION
SA RESISTANCE
INFORMATION RETRIEVAL SYSTEM FOR ELECTRICAL AND ELECTRONIC PROPERTIES OF MATERIALS
ASD-TDR-62-539, PT. II N64-12637 04-01

ELECTRONIC PROPERTIES OF LEAD AND TIN TELLURIDES FOR THERMOELECTRIC CONVERTERS
AFCRL-63-633 N64-12660 04-25

MIXED NEUTRON-GAMMA RADIATION FIELD EFFECTS ON ELECTRICAL PROPERTIES OF SILICONE DIELECTRIC FLUIDS
NARF-63-71 N64-13316 04-19

ELECTRIC PHENOMENA PROPERTIES OF TWO-PHASE FLOW - SQUID PROJECT N64-13481 05-24

DATA PROCESSING OF INFORMATION ON ELECTRICAL AND ELECTRONIC PROPERTIES OF ZINC SULFIDE
DS-135 N64-13957 05-19

ELECTRICAL & ELECTRONIC PROPERTIES OF CADMIUM SELENIDE
DS-134 N64-14040 05-19

ELECTRONIC & ELECTRIC PROPERTIES OF ZINC OXIDE
DS-133 N64-14094 05-19

SYMPOSIUM ON ZIRCONIUM ALLOYS FOR POWER REACTORS - CORROSION RESISTANCE, STRUCTURE DEFECTS & ELECTRIC PROPERTIES
GEAP-4089, VOL. 1 N64-14425 06-18

ELECTRICAL AND OPTICAL PROPERTIES OF SOME METAL CHELATES N64-15494 07-23

ELECTRIC AND MAGNETIC PROPERTIES OF PYROLYTIC GRAPHITE
WADD-TR-61-72, VOL. 20 N64-15577 07-19

ELECTRICAL CHARACTERISTICS OF SUBSURFACE ROCK STRATA AND TECHNIQUES RELATED TO ROCK PROPAGATED RADIO SIGNALS
AFCRL-64-1 N64-16081 07-12

CHARACTERISTICS OF POSITIVE CORONA FOR ELECTRICAL PRECIPITATION AT HIGH TEMPERATURES AND PRESSURES
BM-RI-6397 N64-16884 08-23

THERMAL & ELECTRIC PROPERTIES OF COPPER, SILVER, GOLD, ALUMINUM, & COPPER BASE ALLOYS
N64-17072 09-18

ELECTRIC PROPERTIES OF TISSUES N64-17539 09-16

ELECTRIC PROPERTIES OF ALUMINUM OXIDE CERAMIC COMPOSITIONS INCLUDING SAPPHIRE, SINTERED SINGLE CRYSTAL, AND POLYCRYSTALLINE MATERIAL
DS-136 N64-18384 10-19

ELECTRIC PROPERTIES OF SEA-WATER ICE
AFCRL-64-52 N64-18790 11-19

ELECTRIC PROPERTIES OF SINGLE CRYSTALS OF ALLOYS OF LEAD TELLURIDE AND TIN TELLURIDE
AD-430561 N64-19270 11-09

ELECTRICAL PROPERTIES OF TRANSITION METAL CARBIDES AND NITRIDES
C-21 N64-19548 12-25

DEVICE FOR MEASURING ELECTRIC PROPERTIES OF TRANSISTORS AND DIODES
FTD-TT-63-1212/1 N64-19766 12-15

ELECTRICAL PROPERTIES OF ARGON AND NITROGEN PLASMA FLOWS IN ARC-HEATED PLASMA TUNNEL
N64-19834 12-24

ELECTRIC PROPERTIES OF LUNAR SURFACE - CORRELATION OF RADAR AND PHOTOGRAPHIC DATA
NASA-CR-53880 N64-19850 12-23

ELECTRIC PROPERTIES OF SELECTED RARE EARTH METALS AND COMPOUNDS
RTD-TDR-63-4231 N64-19933 12-25

DESIGN TECHNIQUES FOR STRUCTURALLY SUPPORTED CERAMIC RADOMES - PRESSURE DRAG, ELECTRIC, AND PHYSICAL PROPERTIES
IER-1 N64-20165 13-08

PREPARATION OF LOW-ANGLE GRAIN BOUNDARIES IN INDIUM ANTIMONIDE AND STUDY OF ELECTRICAL AND GALVANOMAGNETIC PROPERTIES
REPT.-2404 N64-21359 14-25

EFFECTS OF PLASTIC DEFORMATION, ANNEALING, AND FATIGUE ON ELECTRICAL PROPERTIES OF INDIUM ANTIMONIDE
AD-600256 N64-21583 15-25

ELECTRIC PROPERTIES OF GRAPHITE AT HIGH TEMPERATURES
FTD-TT-62-1708/1&2 N64-22630 15-19

ELECTRIC PROPERTIES OF CERAMIC ALUMINUM OXIDE INSULATOR N64-22981 16-09

PROCESSING TECHNIQUES AND ELECTRICAL PROPERTIES OF LACQUER FILM CAPACITORS
QPR-20 N64-23371 16-09

EFFECT OF UNSTEADY HEATING ON CHANGE OF MAGNETIC AND ELECTRIC PROPERTIES OF ALLOYS
N64-24533 17-18

ELECTRICAL PHENOMENA AT ICE/WATER INTERFACE
TR-1 N64-25778 17-09

EFFECT OF QUENCH MEDIA ON ELECTRICAL AND MECHANICAL PROPERTIES OF ALUMINUM

RM-228 N64-25923 18-18

RELATIONSHIP BETWEEN SURFACE ELECTRICAL PROPERTIES OF SEMICONDUCTOR CATALYST AND ITS CATALYTIC ACTIVITY
TR-1 N64-26489 18-25

SEMICONDUCTOR RESEARCH - ELECTRICAL AND OPTICAL PROPERTIES, IRRADIATION EFFECTS, & LOW TEMPERATURE STUDIES
AD-439233 N64-27344 19-25

SYNTHESIS AND ELECTRICAL PROPERTIES OF BENZIMIDAZOLES AND HETEROCYCLIC QUINONOID COMPOUNDS
AFCRL-64-359 N64-27530 19-07

ELECTRIC PROPERTIES OF FORSTERITE
EPIC-DS-129 N64-27550 19-25

ELECTRIC PROPERTIES OF GERMANIUM
DS-131 N64-27551 19-25

ELECTRIC PROPERTIES OF ZINC SELENIDE
DS-132 N64-27558 19-25

ELECTRICAL PARAMETERS OF BIOLOGICAL TISSUES IN MICROWAVE RANGE
JPRS-26191 N64-28092 20-16

DEFECT CHEMISTRY OF COMPOUNDS WITH COMPARISON OF ELECTRICAL BEHAVIOR AFTER ELECTRON BOMBARDMENT
AFCRL-64-467 N64-28579 20-25

ELECTRICAL PROPERTIES OF IRRADIATED SILICON SOLAR CELLS MEASURED FROM TEMPERATURE PROFILE
N64-29159 21-06

OPTICAL, ELECTRICAL, AND THERMAL PROPERTIES OF SOLAR CELLS FABRICATED FROM EPITAXIALLY GROWN SINGLE CRYSTAL GALLIUM PHOSPHIDE
N64-29166 21-06

ELECTRICAL CHARACTERISTICS OF IRRADIATED SILICON SOLAR CELLS AS FUNCTION OF TEMPERATURE
NASA-TM-X-55049 N64-29182 21-06

NUCLEAR RADIATION EFFECTS ON ELECTRIC, MECHANICAL, AND OPTICAL PROPERTIES OF MERLON POLYCARBONATE
NARF-63-19T N64-29804 21-19

ELECTRICAL AND MAGNETIC PROPERTIES OF ALLOYS FOR FERROMAGNETIC SUPERCONDUCTORS
RADC-TDR-64-188 N64-30938 22-25

ULTRAHIGH VACUUM APPARATUS TO MEASURE ELECTRICAL PROPERTIES OF THIN FERROMAGNETIC LAYERS
FTD-TT-64-347/1&2 N64-31108 22-25

ELECTRICAL AND THERMAL PROPERTIES AND APPLICATIONS OF OXIDE SEMICONDUCTOR MATERIALS
REPT.-10 N64-31131 22-25

PROPERTIES OF ELECTROMECHANICAL TRANSMISSION-TYPE CONVERTERS BY LINEAR EQUATIONS AND EQUIVALENT CIRCUITS N64-31366 23-09

ELECTRICAL PROPERTIES OF NERVE AND MUSCLE FIBERS BY MEANS OF SURFACE EXTRACELLULAR ELECTRODES
N64-31544 23-16

PHYSICAL, ELECTRICAL, THERMAL, AND OPTICAL PROPERTIES OF SILICON FOR INTEGRATED CIRCUIT APPLICATIONS
ASD-TDR-63-316, VOL. V N64-31940 23-25

SILICON - ELECTRICAL, OPTICAL, AND MAGNETIC PROPERTIES
DS-137 N64-32106 23-25

ELECTRIC PROPERTIES OF PYROCERAM INSULATING MATERIAL
DS-130 N64-32202 23-25

ELECTRICAL AND MECHANICAL PROPERTIES OF REFRACTORY METAL CARBIDES - CARBIDES OF TITANIUM, NIOBIUM, AND ZIRCONIUM
PR-2 N64-32517 23-25

GLASS TECHNOLOGY - OXIDATION REDUCTION AND OPTICAL ABSORPTION, NUCLEATION AND CRYSTAL GROWTH, MELTING AND REFINING, AND ELECTRICAL PROPERTIES OF GLASS
ONRL-48-64 N64-32539 23-19

LIQUID METAL TECHNOLOGY FOR HIGH TEMPERATURE HEAT TRANSFER, WORKING FLUID, AND ELECTRICAL APPLICATIONS N64-32772 24-18

ELECTRIC PROPERTIES OF ALUMINUM FOR CRYOGENIC ELECTROMAGNETS
NBS-TN-218 N64-32817 24-25

ELECTRIC AND CHEMICAL PROPERTIES OF BARRIER LAYER METAL OXIDES, X-RAY ANALYSIS OF STEEL CRYSTAL STRUCTURES, AND SPECTRAL ANALYSIS OF ALLOYS
JPRS-26774 N64-32842 24-18

ELECTRIC PROPERTIES OF BARRIER LAYER OXIDE FILMS AND MECHANISM OF ELECTROLYTIC RECTIFICATION
N64-32844 24-25

PHOTOVOLTAIC, OPTICAL, THERMAL, AND ELECTRICAL PROPERTIES OF MATERIALS AND MATERIAL STRUCTURES FOR SOLID STATE DEVICES
NASA-CR-58763 N64-33281 24-25

ELECTRIC AND OPTICAL PROPERTIES OF CRYSTALS FOR SUBMILLIMETER MASER
NASA-CR-59288 N64-33332 24-25

ELECTRICAL AND INFRARED PROPERTIES OF GLASS IN BISMUTH OXIDE-TELLURIUM OXIDE SYSTEM
NASA-TM-X-53110 N64-33869 24-25

ELECTRIC PROPULSION
SA ELECTROSTATIC PROPULSION
SA ELECTROTHERMAL PROPULSION
SA IONIC PROPULSION
SA NUCLEAR-ELECTRIC PROPULSION
ELECTRIC PROPULSION FOR MANNED INTERPLANETARY MISSION - DELIVERY AND RETURN OF LARGE PAYLOADS
N64-10046 01-27

LIQUID METALS AS HEAT TRANSFER AND THERMODYNAMIC WORKING FLUIDS FOR AEROSPACE ELECTRIC POWER SUPPLY
N64-10176 01-18

BENEFITS OF ELECTRIC PROPULSION SYSTEMS FOR LUNAR AND INTERPLANETARY FLIGHT
NASA-RP-42 N64-10287 01-27

ION BEAM INSTRUMENTS FOR PLASMA DIAGNOSTICS TESTING OF ELECTRICAL PROPULSION SYSTEMS
AEDC-TDR-63-242 N64-13663 05-24

10-TO-40 KILOWATT ELECTRICAL POWER SYSTEM FOR MANNED ORBITAL SPACE STATION
NASA-CR-55747 N64-15886 07-06

PERFORMANCE POTENTIAL OF ELECTRIC PROPULSION SYSTEMS USING SNAP-8 & SNAP-50 POWER SUPPLIES FOR SPACE MISSIONS
NASA-CR-53472 N64-18173 10-27

ELECTRICAL PROPULSION FOR PLANETARY AND INTER-PLANETARY SPACECRAFT
NASA-CR-53531 N64-18216 10-30

CHARGED PARTICLE PROPULSION - DOUBLE ENERGY CONVERSION PROBLEM AND APPLICATION TO ELECTRIC PROPULSION SYSTEM FOR SPACE VEHICLES
N64-19840 12-27

SPACE ELECTRIC ROCKET TEST /SERT/ AND EARLY ELECTRIC PROPULSION SYSTEMS
NASA-RP-190 N64-22068 15-27

BRAYTON CYCLE FOR USE IN POWER GENERATOR FOR SPACE MISSIONS
SAE PAPER-741A N64-22416 15-06

TRANSVERSE FIELD ION ENGINE FOR ELECTRICAL PROPULSION
NASA-CR-54054 N64-22453 15-27

CRYOGENIC STORAGE FOR SPACE ELECTRIC POWER SUPPLY
NASA-RP-220 N64-23914 16-20

MANNED MARS MISSION USING ELECTRIC PROPULSION SYSTEMS
AIAA PAPER-64-498 N64-24166 16-27

ELECTRIC PROPULSION SYSTEM - ELECTROTHERMAL, ELECTROSTATIC AND ELECTRODYNAMIC THRUSTORS
AIAA PAPER-64-524 N64-24168 16-27

LARGE ARC JET THRUSTOR FOR SPACECRAFT ELECTRIC PROPULSION SYSTEM
FR024-10338 N64-24188 16-27

ELECTRIC PROPULSION FOR MANNED INTERPLANETARY VEHICLE N64-24856 17-27

ELECTRIC PROPULSION SYSTEM TANKAGE DESIGN FOR ZERO GRAVITY RESTART AND LOW GRAVITY OPERATION
ASD-TDR-63-506 N64-26813 18-27

ELECTRIC PROPULSION - APPLICATION TO SPACE FLIGHT N64-26993 19-27

EFFECT OF COMPONENT SUBSYSTEMS ON PERFORMANCE OF ELECTRIC PROPULSION SYSTEMS - POWER CONVERSION, POWER CONDITIONING, AND THRUSTOR SUBSYSTEMS
AIAA PAPER-64-676 N64-28359 20-27

COMPARISON OF ELECTRIC PROPULSION SYSTEMS WITH NUCLEAR OR CHEMICAL PROPULSION FOR SPACE MISSIONS
AIAA PAPER-64-715 N64-28372 20-27

THREE PHASE ALTERNATING CURRENT HYDROGEN ARC JET PROPULSION SYSTEM
NASA-CR-54112 N64-28462 20-27

CREATING BEAMS OF HIGH-SPEED IONS BY CONTACT IONIZATION THRUSTORS AND ELECTRON BOMBARDMENT THRUSTORS FOR ELECTRIC PROPULSION OF SPACECRAFT
NASA-RP-290 N64-28946 20-27

ANNOTATED BIBLIOGRAPHY ON ELECTRIC PROPULSION
NASA-CR-58361 N64-29522 21-27

NUCLEAR-ELECTRIC POWER REQUIREMENTS FOR ELECTRIC ROCKETS - CONTACT AND BOMBARDMENT ION ENGINES, ARC JETS, AND PULSED PLASMA ENGINES
AIAA PAPER-64-765 N64-29575 21-06

ELECTRIC ARC AND MAGNETIC HALL CURRENT ACCELERATOR TO PROVIDE HIGH PERFORMANCE ELECTRIC PROPULSION ENGINE
AIAA PAPER-64-670 N64-29599 21-27

WELDING OF REFRACTORY METAL ALLOYS FOR USE IN ALKALI-METAL SPACE ELECTRIC POWER SYSTEMS
NASA-CR-54168 N64-31455 23-18

ADVANCED PROPULSION CONCEPTS - SYMPOSIUM N64-31601 23-27

HEAVY PARTICLE ELECTRIC PROPULSION N64-31602 23-27

HEAVY PARTICLE ELECTRIC PROPULSION - COLLOIDAL CHARGED DROPLETS N64-31603 23-27

CONTROLLED-GROWTH COLLOIDAL ION SOURCE FOR ELECTROSTATIC PROPULSION N64-31604 23-27

ELECTROSTATIC ACCELERATION OF LOW DENSITY PLASMA BY MOMENTUM TRANSFER THROUGH MAGNETIC FIELDS N64-31608 23-27

MOMENTUM TRANSFER THROUGH ELECTRIC FIELDS - ION ENGINE APPLICATION N64-31609 23-27

ONE MEGAWATT TURBONUCLEAR SPACE POWER SYSTEM FOR ELECTRIC PROPULSION N64-31610 23-06

THERMIONIC-NUCLEAR SPACE POWER SYSTEMS FOR ELECTRIC PROPULSION N64-31612 23-06

PARAMETRIC STUDY OF CONSTANT THRUST ELECTRICALLY PROPELLED MARS AND VENUS ORBITING PROBES
NASA-TN-D-2154 N64-32402 23-32

POROUS TUNGSTEN IONIZERS FOR ELECTRIC PROPULSION SYSTEM
AIAA PAPER-64-691 N64-32723 24-27

PERFORMANCE PREDICTION OF ELECTRICALLY PROPELLED LUNAR LOGISTICS VEHICLE
NASA-CR-58972 N64-32999 24-32

UNMANNED ELECTRICAL PROPULSION MISSIONS OF SYSTEM FOR NUCLEAR AUXILIARY POWER-50 /SNAP-50/ SPACE POWER UNIT REACTOR /SPUR/ POWER PLANT
PWAC-447 N64-33074 24-27

ELECTRIC PULSE

ELECTROLYTE PULSING USING CARBON ELECTRODE FOR IMPROVED FUEL CELL OPERATION
NASA-CR-52490 N64-10442 01-06

PULSE TECHNIQUE FOR RECORDING BLOOD PRESSURE OF DOGS DURING SPACE FLIGHTS - PHONOCARDIOGRAPHY N64-11705 03-16

THEORY OF PULSE COINCIDENCE OF DEPENDENT CURRENTS - CYBERNETICS N64-12458 04-09

RANDOM NUMBER GENERATION BY FILLING RANDOM INTERVAL OF FIXED FREQUENCY PULSES WITH SUBSEQUENT ENUMERATION - CYBERNETICS N64-12473 04-20

MECHANISM OF BIOLOGICAL ACTION OF PULSED MAGNETIC FIELD N64-12499 04-16

HYDRAULIC PULSATION CONCEPTS
RAC-933-2 N64-14095 05-06

APPLICATION OF PULSE SEQUENTIAL CIRCUITRY TO CONTROL DEVICES
TR-1185 N64-14499 06-09

INFLUENCE OF SOLAR DISTURBANCES ON MULTIFREQUENCY PULSE TRANSMISSIONS AND SIMULTANEOUS BACKSCATTER OBSERVATIONS N64-15443 07-28

MECHANICAL AND ELECTRICAL PULSE TECHNIQUES FOR IMPROVEMENT OF FUEL CELL PERFORMANCE
NASA-CR-55742 N64-15862 07-06

PREDICTING BEHAVIOR OF PULSE RESPONSE OF MICROWAVE AMPLIFIER TUBES N64-16137 08-09

PULSATIONS OF GEOMAGNETIC FIELD AND EARTH CURRENTS USED FOR GEOPHYSICAL EXPLORATION N64-16520 08-12

PROBABILITY OF NANOSECOND PULSE BREAKDOWN INITIATION AND GROWTH
BDN-B2-102 N64-16626 08-09

STUDY OF INDUSTRIAL APPLICATIONS OF MAGNETIC-PULSE METAL FORMING
NASA-CR-55836 N64-16708 08-17

SHORT-PERIOD PULSATIONS OF EARTH ELECTROMAGNETIC FIELD AND PROCESSES IN UPPER ATMOSPHERE
JPRS-24085 N64-17975 10-12

HIGH VOLTAGE PULSE MODE OF PENNING ION SOURCE
FTD-MT-63-65/1&2 N64-18675 11-23

EFFECT OF MODIFYING GAS-ELECTROLYTE INTERFACE BY PULSES ON FUEL CELL PERFORMANCE
NASA-CR-54031 N64-19223 11-06

OBLIQUE INCIDENCE PULSE MEASUREMENTS AT 100-KC FOR SERARATING GROUND WAVE & SKY WAVE TIME MODES N64-19686 12-08

AUDIO PULSE CANCELLATION FILTER - RADIO FREQUENCY COMMUNICATION APPLICATION
RADC-TDR-64-105 N64-20034 13-08

CIRCUITS FOR SHAPING SIGNALS INTO SQUARE PULSES N64-20213 13-09

PULSE-STRETCHING NETWORK USING LINK STRUCTURE
EERL-1 N64-21527 15-09

APPLICATION OF PULSED ELECTROMAGNETIC TEST SYSTEM TO INSPECTION OF THIN WALL TUBING
ANL-6728 N64-21608 15-17

THEORY OF PULSED NEUTRON TECHNIQUE APPLIED TO FAST

MULTIPLYING SYSTEMS
EUR-593.E N64-23064 16-23

INVARIANCE OF PULSED AUTOMATIC CONTROL SYSTEMS
N64-23081 16-09

COMBINED USE OF PULSE ATTRIBUTES IN PROTECTED CIRCULAR SIGNALS
FTD-TT-63-528/1&2&4 N64-23303 16-06

DIRECT GENERATION OF HIGH ENERGY PULSES BY ELECTROMECHANICAL POWER CONVERSION
PIBMRI-1129-63 N64-23954 16-09

PULSE HIGH FREQUENCY ION SOURCE FROM VIBRATIONAL CIRCUIT WITH SHOCK EXCITATION N64-24571 17-09

PULSE TRANSFER FUNCTIONS IN COMPLEX COMMUNICATION TWO-CHANNEL CONTINUOUS SIGNAL SYSTEM
N64-24703 17-09

STATISTICAL ERRORS IN MINIMIZING FUNCTIONAL FOR APPLICATION TO SYNTHESIS OF PULSE SYSTEMS WITH FINITE MEMORIES N64-24709 17-20

SUBNANOSECOND PULSE METHODS OF RADAR CROSS SECTION MEASUREMENT N64-24723 17-08

ELECTROMECHANICAL GENERATION OF PULSED POWER
PIBMRI-1138-63 N64-25229 17-08

ELECTRON BEAM SYSTEM FOR PRODUCTION OF SHORT DURATION PULSES
BRL-MEMO-1507 N64-25488 17-25

PULSED CLOSED AND PULSED OPEN THERMONUCLEAR REACTORS
LAMS-3085 N64-25534 17-23

TIME DELAY BETWEEN APPLICATION OF CURRENT PULSE AND ONSET OF STIMULATED EMISSION
REPT.-3 N64-25684 17-25

PULSE, ECHO, AND RELAXATION TIMES IN NUCLEAR MAGNETIC RESONANCES
NADC-AM-6332 N64-25945 18-23

NANOSECOND PULSES OF ULTRAHIGH FREQUENCY OSCILLATION
FTD-TT-64-472/1&2 N64-26125 18-09

FIXED AND VARIABLE FREQUENCY PULSE TRANSMISSION AT OBLIQUE IONOSPHERIC INCIDENCE
IIB-8 N64-26224 18-08

CAPACITOR ENERGY STORAGE FACILITIES FOR HIGH ENERGY PULSE GENERATION N64-27103 19-06

SODIUM-BROMINE FUEL CELL AS ENERGY SOURCE FOR HIGH POWER PULSE N64-27113 19-06

GENERATION OF HIGH ENERGY PULSES AND STORAGE OF ELECTRICAL ENERGY N64-27116 19-06

HIGH ENERGY PULSE GENERATION BY ELECTROMECHANICAL POWER CONVERSION N64-27119 19-06

TRANSIENT CHANGE MECHANISMS IN OPERATING CHARACTERISTICS OF ELECTRON TUBES IN NUCLEAR RADIATION PULSE
QTR- 7 N64-27652 19-09

ELECTROLUMINESCENT RESPONSE TO PULSE EXCITATION
USAELRDL-TR-2452 N64-27724 19-25

IMPROVING FUEL CELL PERFORMANCE BY PULSING TECHNIQUES
NASA-CR-54150 N64-28086 20-06

PINCH EFFECT GENERATOR AND PULSE FORMING CIRCUIT
NASA-CR-58567 N64-29689 21-24

CALCULATION OF WEIGHTING FACTOR OF LINEAR PULSE SYSTEM BY USING KNOWN PULSE TRANSFER FUNCTION OF CONTINUOUS ACTION SYSTEM N64-30225 22-20

ELECTRONIC EQUIPMENT FOR MEASURING PULSE WAVE PROPAGATION VELOCITIES IN ARTERIES
N64-30393 22-16

MINIATURIZATION OF VALVELESS PULSE JET ENGINES
ARD-307 N64-30533 22-27

PULSE SHAPING FOR SOLAR FURNACE
TN-63-23 N64-30615 22-10

THEORETICAL ANALYSIS OF LOSS MEASUREMENT IN MULTIMODE WAVEGUIDE BY SERIES OF PULSES METHOD
N64-31355 23-09

PORTABLE SEALED-OFF PULSE NEUTRON SOURCE WITH SEALED-OFF TUBE N64-31786 23-23

PEAK POWER LIMITER FOR LARGE LASER PULSES
REPT.-1579-13 N64-32875 24-25

CHOICE OF TRANSMITTER PULSE SHAPE IN SYSTEM OF FUNCTIONAL TOLERANCES N64-32906 24-08

ELECTRIC RESISTANCE
SA PIEZORESISTIVE DEVICE
IMPLANTING ELECTRIC STIMULATOR UNDER SKIN THROUGH INTERSPACE FOR CARDIOVASCULAR SYSTEM STUDY
JPRS-21909 N64-11356 02-16

ELECTRICAL RESISTANCE STRAIN GAUGES - BIBLIOGRAPHY
ARL/SM-4 N64-11407 02-15

OPTICAL EMISSIVITY & ELECTRICAL RESISTIVITY OF URANIUM-ZIRCONIUM CARBIDE PIN AT HIGH TEMPERATURES
LAMS-2965 N64-11593 03-18

PHASE CHANGES IN ICE SOLUTIONS - INVESTIGATION USING ELECTRICAL RESISTIVITY MEASUREMENTS
EER-FW-173 N64-11754 03-23

DEUTERON IRRADIATION EFFECTS ON ELECTRICAL RESISTIVITY AND ELASTIC MODULUS OF TUNGSTEN
AFCRL-63-183 N64-13034 04-23

ELECTROSLEEP INFLUENCE ON THERMOREGULATION REFLEX AND ELECTRIC RESISTANCE OF SKIN IN PATIENTS WITH PRURITIC DERMATOSIS
RSIC-105 N64-13812 05-16

HARDENING PROPERTIES OF POLYVINYL CHLORIDE-DIBUTYL PHTHALATE PLASTISOL BY ELECTRICAL RESISTANCE METHOD
NOLTR-63-250 N64-13828 05-19

SEMIAUTOMATIC WINDING JIG FOR ELECTRIC RESISTANCE STRAIN GAUGES
ARL/SM-119 N64-14444 06-17

ELECTRIC RESISTANCE AND X-RAY STUDY OF CRYSTAL STRUCTURE ORDERING TRANSFORMATION IN GOLD-COPPER ALLOYS
AD-431106 N64-16339 08-25

APPARATUS FOR INVESTIGATION OF BIRESISTANCE STATE OF MATERIALS
NASA-TM-X-54576 N64-17604 09-13

ELECTRICAL RESISTANCE OF BISMUTH, YTTERBIUM, AND DYSPROSIUM
UCRL-11220 N64-17708 09-25

SYSTEM FOR MEASURING SEEBECK COEFFICIENT AND RESISTIVITY OF WIRES OR BARS
NRL-6044 N64-21674 15-25

COMPARISON OF CALCULATION METHODS FOR RESISTANCE VARIATION OF EXPLODING WIRES
R64SD23 N64-21781 15-09

STABILITY OF ELECTRIC CIRCUITS WITH ACTIVE UNITS CONTAINING TWO NONLINEAR RESISTANCES
N64-23536 16-09

THERMAL EXPANSION AND ELECTRIC RESISTANCE MEASUREMENTS ON CERIUM METAL
BN-RI-6480 N64-23699 16-09

HARDNESS AND ELECTRICAL PROPERTIES OF NICKEL-ALUMINUM ALLOYS IN BETA-PHASE REGION
N64-24248 17-18

RESISTANCE CHANGES CAUSED BY VAPORIZATION WAVES IN EXPLODING WIRES

BRL-1241 N64-25595 17-23

ELECTRICAL RESISTIVITY OF NAPHTHALENE, GLUCOSE, AND PHENANTHRENE
NOLTR-63-75 N64-26238 18-25

VISUAL ADAPTATION IN EYE OF MAN - ANTIBIOTIC EFFECT ON BLOOD CONTENT AND ORGANS OF IRRADIATED RATS - ELECTRIC RESISTANCE IN SECTION OF PULMONARY TISSUE IN MAN
JPRS-25464 N64-28425 20-16

LOW TEMPERATURE ELECTRIC RESISTANCE STUDY OF PRE-PRECIPITATION PROCESS IN SUPERSATURATED ALUMINUM-MAGNESIUM ALLOY
REPT.-13.177/6401.104 N64-29410 21-18

THERMAL CONDUCTIVITY, THERMOELECTRIC POWER, AND ELECTRICAL RESISTIVITY OF STOICHIOMETRIC TITANIUM-NICKEL ALLOY
NOLTR-64-76 N64-31085 22-25

DIGITAL METHOD FOR RESISTANCE MEASUREMENT
NASA-TN-D-2003 N64-31728 23-15

ELECTRIC STIMULUS
EFFECT OF ELECTRIC STIMULATION ON SPINOCERVICAL TRACT OF CAT N64-33264 24-16

ELECTRIC WELDING
ARC WELDING, PLASMA ARC & ARGLESS ELECTRIC FUSION WELDING OF HEAT RESISTANT ALLOYS
N64-17091 09-17

ELECTRIC WIRING
ELECTRICAL CONNECTIONS - INSTRUCTION HANDBOOK
NASA-SP-5002 N64-15733 07-17

MULTICONTACT ELECTRICAL CONNECTORS
PA-TM-1242 N64-17964 10-09

WIRING AND SWITCHING MECHANISMS OF MACHINES IN SELF-REPAIRING SYSTEM
R-172 N64-19399 12-20

ULTRAHIGH TEMPERATURE REACTOR EXPERIMENT /UHTREX/ FACILITY & COMPUTER PROGRAM FOR UHTREX WIRING
LAMS-3069 N64-19905 12-23

ELECTROMAGNETIC COMPATIBILITY BY CONTROL OF WIRING INSTALLATION IN AIRCRAFT
N64-22818 16-09

WIRE DAMAGE TESTING OF GEMINI INTERSTAGE HARNESS BY PROPELLANT COMPATIBILITY, HUMIDITY, VIBRATION, AND ALTITUDE
LV-346 N64-31599 23-17

WIRING OF CONNECTORS AND JACKS FOR VOCODER
AFCRL-63-301, PT. 2 N64-32047 23-15

SOLDERING FOR HIGH RELIABILITY ELECTRICAL CONNECTIONS IN SPACECRAFTS
NASA-TM-X-54760 N64-33034 24-17

ELECTRICALLY SUSPENDED GYROSCOPE /ESG/
DYNAMIC STABILITY OF RESONANT CIRCUIT ELECTRICALLY SUSPENDED GYROSCOPE /ESG/
R-168 N64-20152 13-15

TEST EQUIPMENT FOR ELECTRICALLY SUSPENDED GYROSCOPES IN GIMBALED AND STRAPDOWN MODES
MH-2941-FRI N64-25359 17-15

ELECTRICITY
SA THERMOELECTRICITY
RATIONAL PROFILING OF ISODHMS FOR ELECTRICAL PROSPECTING MAPS
JPRS-17646 N64-10484 01-12

OPTIMAL CONSUMPTION OF ELECTRIC POWER IN ELEMENTS OF RADIO APPARATUS N64-12736 04-09

PHOTOELECTRIC METHOD STUDYING INSTABILITY OF STELLAR IMAGES N64-13684 05-23

ELECTROPHYSIOLOGIC CHARACTERISTICS AND INTERPRETATION OF SKIN POTENTIALS
SAM-TDR-63-95 N64-15570 07-16

ANTISTATIC AGENT EFFECT ON SYNTHETIC FIBER FABRICS
AERE-R-4254 N64-15699 07-19

PIEZORESISTIVE CHARACTERISTICS OF SOME ORGANIC SEMICONDUCTING POLYMERS
AD-403361 N64-15936 07-25

ELECTRIC-PULSE MACHINING OF HEAT RESISTANT ALLOYS
N64-17099 09-17

MULTISOLID FUEL BURNER FOR THERMAL ENERGY CONVERSION TO GENERATE 150 WATTS OF POWER
N64-17384 09-06

MODULAR POWER CONVERTER SYSTEMS
N64-17431 09-06

CONVERSION OF THREE-PHASE POWER TO SINGLE-PHASE POWER - ELECTRICITY N64-17433 09-06

PHOTOVOLTAGES, PHOTOCURRENTS, AND ABSORBED GASES IN CADMIUM SULFIDE SINGLE CRYSTALS
RADC-TDR-64-95 N64-17966 10-23

SHORT RESPONSE-TIME PIEZOELECTRIC INSTRUMENT FOR PRESSURE, HEAT TRANSFER, FORCE, AND MOMENTS MEASUREMENTS N64-18212 10-15

PHOTOELECTRIC STUDY OF INTERNAL OSCILLATIONS IN P-N-P-N TRANSISTORS
FTD-TT-64-68/162 N64-19770 12-09

PHOTOELECTRIC ANALYSIS OF DEAD LOAD STRESSES
RSIC-176 N64-22910 16-33

PHOTOELECTRIC ATLAS OF INTENSE LINES OF HYDROGEN MOLECULAR EMISSION SPECTRUM
ATN-64/9233/-2 N64-26761 18-23

FAILURE MODES AND RELATIVE PROBABILITIES OF MALFUNCTIONS IN GENINI LAUNCH VEHICLE CONTROL AND ASSOCIATED ELECTRIC AND HYDRAULIC SUBSYSTEMS
LV-304, REV. A N64-27192 19-06

ELECTRICAL DISPERSION OF LIQUIDS - TECHNIQUE FOR GENERATING A CHARGED COLLOID BEAM
APL-TDR-64-75 N64-27961 20-07

ELECTRO-OPTICAL AND PIEZOELECTRIC METHODS FOR RAPID DEFLECTION OF LASER BEAMS
NASA-CR-58626 N64-28886 20-25

PYROELECTRIC CURRENT SENSITIVITY OF TRIGLYCINE SULFATE IN RESPONSE TO ELECTROMAGNETIC RADIATION
NOLC-601 N64-29856 21-25

QUALITATIVE AND QUANTITATIVE ANALYSIS OF EXPERIMENTAL MECHANISM FOR SHOCK POLARIZATION OF NONPIEZOELECTRIC DIELECTRICS
NOLTR-64-121 N64-31674 23-25

ACTIVE ELECTROSTATIC DISCHARGER WITH LOW RADIO FREQUENCY INTERFERENCE FOR FIXED AND ROTARY WING AIRCRAFT
DCR-131 N64-31931 23-04

PHOTOELECTRIC RECORDING OF INFRARED SPECTRUM OF NIGHT SKY N64-32711 24-12

ELECTRICALLY ATOMIZING VOLATILE LIQUIDS
GSP/PHYS-64-1 N64-33819 24-11

ELECTROCARDIOGRAM
ELECTROCARDIOGRAPHIC EXAMINATION OF EFFECTS OF AIR AND SPACE FLIGHT ACCELERATIONS ON HUMAN CIRCULATORY SYSTEM
DVL-259 N64-10236 01-16

SIX-CHANNEL ELECTROCARDIOGRAPH FOR RECORDING BIOPHYSICAL PARAMETER OF HUMAN SYSTEM
JPRS-18859 N64-10799 02-15

ELECTROCARDIOGRAPHIC FUNCTIONS IN CLINICAL MEDICINE OF HUMAN BODY ELECTRIC FIELDS
JPRS-19030 N64-11123 02-16

ELECTROCARDIOGRAPHIC METHODS AND APPLICATION TO DOG STUDY DURING SPACE FLIGHTS N64-11707 03-16

TYPES AND METHOD OF ATTACHING ELECTRODES IN RECORDING ELECTROCARDIOGRAM DURING SPACE FLIGHTS
N64-11710 03-16

ELECTROCARDIOGRAMS IN EVALUATING STATE OF ATHLETIC TRAINING AND PHYSICAL TRAINING METHODS
JPRS-22508 N64-12142 03-16

WOLFF-PARKINSON-WHITE SYNDROME AS AVIATION RISK - ELECTROCARDIOGRAPHIC ANOMALY
REPT.-15 N64-14778 06-14

SYNTHETIC ELECTROCARDIOLOGY - STUDY OF CARDIAC FUNCTIONS
JPRS-25015 N64-21482 14-16

INSTRUMENTATION FOR SIMULTANEOUS RECORDING OF BLOOD PRESSURE CURVE, PHONOCARDIOGRAM, AND ELECTROCARDIOGRAM
JPRS-25897 N64-27125 19-16

NORMAL VARIATIONS OF VECTORCARDIOGRAM COMPONENTS IN DOG, CAT, AND RABBIT
JPRS-25599 N64-27318 19-16

MONITORING ELECTROCARDIOGRAMS ON ACTIVELY EXERCISING SUBJECTS
SAM-TDR-64-38 N64-31050 22-16

ELECTROCATALYST
ELECTROCATALYSIS - HYDROGEN EVOLUTION AT DILUTE PLATINUM & PALLADIUM AMALGAM FUEL CELL ELECTRODES
TM-7 N64-33757 24-06

ELECTROCHEMICAL CELL
FUEL CELLS - ELECTROCHEMICAL COMBUSTION, HYDROGEN-OXYGEN ELEMENTS & BATTERIES
JPRS-22148 N64-11275 02-06

ELECTROCHEMICAL ENERGY FROM HUMAN WASTE USING ANAEROBIC BACILLUS PLASTEURII CULTURES
NASA-CR-52606 N64-11323 02-06

MAGNETOHYDRODYNAMIC POWER GENERATOR - THERMALLY REGENERATIVE ELECTROCHEMICAL CELLS
ANL-6808 N64-12166 03-23

ELECTROCHEMICAL DELAY CELL FOR TIMING APPARATUS APPLICATION
HDL-TR-1156 N64-13314 04-06

ZINC-POTASSIUM HYDROXIDE-MERCURIC OXIDE RECHARGEABLE ELECTROCHEMICAL CELL FOR AEROSPACE APPLICATION
APL-TDR-64-15 N64-16094 07-06

PRIMARY AND SECONDARY ELECTROCHEMICAL CELLS FOR SPACE VEHICLE POWER SUPPLIES N64-17997 10-06

PERFORMANCE OF PROTOTYPE NOISE EXPOSURE METER UTILIZING ELECTROCHEMICAL STORAGE CELLS
APRL-TDR-64-4 N64-18261 10-15

ELECTROCHEMICAL STUDY OF CELL SOLVENTS IN HIGH ENERGY BATTERIES
NASA-CR-54024 N64-18441 10-06

POTASSIUM-MERCURY LIQUID METAL CELLS - HIGH HEAT TRANSFER, HIGH CURRENT DENSITY, & THERMAL AND ELECTRICAL REGENERATION CAPABILITIES
N64-19835 12-06

DESIGN CRITERIA FOR LONG LIFE ZINC-POTASSIUM HYDROXIDE-MERCURIC OXIDE-SILVER ELECTROCHEMICAL CELL FOR AEROSPACE APPLICATION
ASD-TDR-62-1112 N64-22696 15-06

ELECTROCHEMICAL BATTERIES - ANNOTATED BIBLIOGRAPHY
SB-63-14 N64-22957 16-06

LITHIUM-CUPRIC FLUORIDE AND LITHIUM-COBALTIC FLUORIDE ELECTROCHEMICAL CELLS FOR BATTERIES
APL-TDR-64-59 N64-23970 16-09

ALTERNATING CURRENT MEASUREMENT OF ELECTRODE DIFFERENTIAL CAPACITANCE AND RESISTANCE OF ELECTROCHEMICAL CELL FOR ELECTROLYSIS
T-1716 N64-24154 16-09

USE OF AUXILIARY ELECTRODES IN SILVER-ZINC AND SILVER-CADMIUM CELLS
NASA-CR-60000 N64-26588 18-04

CONDUCTIVITY CELLS FOR STRONG ELECTROLYTES TO INDICATE COMPONENT CONCENTRATIONS IN CONTINUOUS PROCESS STREAMS
DP-869 N64-26879 18-06

GRAVITY INDEPENDENT WATER-ELECTROLYTIC CELL WITH PALLADIUM-SILVER ALLOY CATHODE
AMRL-TDR-64-44 N64-27458 19-06

MICROBIAL AND ENZYMATIC PROCESSES FOR REDUCING HUMAN URINE AND FECES TO ELECTROCHEMICAL FUELS
NASA-CR-54077 N64-27930 20-06

VENTED, RECHARGEABLE SILVER-CADMIUM CELLS
REPT.-3 N64-28508 20-04

CHEMOELECTRIC ENERGY CONVERSION FOR NONAQUEOUS BATTERIES - IONIC MELT ELECTROCHEMISTRY, REDUCTION OF AROMATIC NITRO COMPOUNDS, AND AMMONIA CELLS
NAVWEPS-8203 N64-29326 21-04

MATRIX-TYPE DIRECT AMMONIA-AIR FUEL CELL OPERATING AT INTERMEDIATE TEMPERATURES
REPT.-3 N64-29585 21-06

THERMAL ENERGY CONVERSION TO ELECTRICITY - ELECTROTHERMALLY REGENERATIVE TRANSDUCER DEVICE
AD-403290 N64-30900 22-04

GALVANIC CELL CONVERSION OF HEAT TO ELECTRICAL ENERGY
IITRI-C6006-10 N64-33715 24-06

IMPROVEMENT OF ZINC ELECTRODES FOR ELECTROCHEMICAL CELLS - MECHANISMS OF ZINC DENDRITE GROWTH IN SILVER-ZINC BATTERIES
NASA-CR-59362 N64-33804 24-06

ELECTROCHEMICAL MACHINING
CHEMICAL & ELECTROLYTIC POLISHES & DISLOCATION ETCHES FOR SEMICONDUCTORS
NOLTR-63-156 N64-11174 02-07

ORIENTED COPPER SINGLE CRYSTAL GROWTH, CHEMICAL POLISHING, ELECTROCHEMICAL CUTTING, AND TENSION & COMPRESSION GRIPS
RAC-921-1 N64-13603 05-25

REACTOR TECHNOLOGY - FUEL ELEMENT PREPARATION & PROCESSING AND ELECTROCHEMICAL MACHINING
NLCO-900 N64-15999 07-17

ELECTROCHEMICAL DEBURRING OF MOLYBDENUM, ALUMINUM, AND STAINLESS STEEL
A478 N64-17136 09-17

ELECTROCHEMISTRY
BIOELECTROCHEMISTRY - ENZYME SYSTEMS, OXIDIZATION POTENTIAL, ELECTRODE, & CHRONOPOTENTIOMETRIC STUDY
NASA-CR-52607 N64-11103 02-16

FABRICATION AND EVALUATION OF ELECTRODEPOSITED PRESSURE BOTTLE
SR/D-61-2 N64-11768 03-17

ELECTROCHEMICAL PROPERTIES OF LIQUID AND FROZEN ELECTROLYTES AT LOW TEMPERATURES
FGT-2917 N64-12318 03-23

CURRENT-VOLTAGE TEST OF COAXIAL-CYLINDRICAL AND PLANE-PARALLEL ELECTRODES FOR THERMIONIC CONVERTER
TE-5-64 N64-12654 04-06

ELECTROCHEMISTRY OF NONAQUEOUS BATTERY OPERATION, BATTERY DEVELOPMENT PLANS, AQUEOUS AND NONAQUEOUS ANODIZING, AND BERYLLIUM DIALKYL SALT PREPARATION
NASA-CR-55015 N64-13002 04-06

ELECTROCHEMICAL STUDY OF IRON AND NICKEL IN SOLID SOLUTION IN POTASSIUM IODIDE
TDR-169/3240-21/TR-1 N64-13762 05-07

SINGLE CRYSTAL GROWTH BY ELECTROCHEMICAL TECHNIQUES
AFCRL-63-542 N64-13801 05-25

ELECTROCHEMICAL PARAMETER EVALUATION FOR INTERMEDIATE TEMPERATURE DIRECT AMMONIA-AIR FUEL CELL
GR-1 N64-14629 06-06

ELECTROCHEMICAL PRODUCTION ACTIVITY OF D-AMINO ACID, OXIDASE, UREASE, AND GLUCOSE OXIDASE ENZYME SYSTEMS
NASA-CR-85744 N64-15873 07-16

ELECTROCHEMISTRY OF FUSED SALTS
IS-687 N64-16672 08-06

THIN FILMS FORMED BY ELECTROCHEMICAL REACTIONS
AD-425358 N64-17306 09-09

INTERACTING INFLUENCE OF CORROSION ON CAVITATION DAMAGE STUDIED QUANTITATIVELY WITH MAGNETO-STRICTIVE DEVICE
AD-433061 N64-17780 09-11

ELECTROFORMING, ELECTROCOMBINATION, AND CHEMICAL VAPOR DEPOSITION OF NIOBIUM-TUNGSTEN ALLOY
ML-TDR-64-26 N64-18564 11-17

ELECTRONIC STRUCTURES OF NITROGEN FLUORIDES
NRC-64-1 N64-18628 11-07

ELECTROCHEMICAL CORROSION MECHANISMS AND CORROSION RESISTANCE IN STAINLESS STEEL
FTD-TT-64-20/162 N64-19767 12-18

ELECTROCHEMISTRY OF NITROGEN-FLUORINE COMPOUND SYNTHESIS
TRACOR-64-154-U N64-19819 12-07

CORROSION AND ELECTROCHEMICAL BEHAVIOR OF TITANIUM AND TITANIUM-MOLYBDENUM ALLOYS N64-20915 14-18

ELECTROCHEMICAL CORROSION OF METALS AND ALLOYS IN PHOSPHORIC ACID ELECTROLYTE OF HYDROCARBON-AIR FUEL CELLS
AD-439400 N64-21297 14-06

ELECTROCHEMICAL STUDY OF CATALYTIC ACTIVITY ON HYDROGEN ELECTRODE IN FUEL CELL
AD-432973 N64-21398 14-07

ELECTROCHEMICAL RECOVERY OF COBALT-NICKEL ALLOY FROM SUPERALLOY SCRAP
BM-RI-6445 N64-21800 15-07

ELECTROCHEMICAL TECHNOLOGY APPLICABLE TO WATER ELECTROLYSIS
EDR-3687, VOL. II N64-21835 15-07

HOT DRY PRESSED SILVER CHLORIDE CATHODES FOR AMMONIA BATTERY AND ORGANIC CATHODES FOR AQUEOUS ELECTROLYTIC BATTERY
NOLC-597, SUPPL. N64-22088 15-06

ELECTROCHEMISTRY OF FUEL CELL ELECTRODES - HYDROGEN EVOLUTION AT DROPPING INDIUM AMALGAM ELECTRODE
TM-10 N64-22119 15-06

ELECTROSYNTHESIS OF OZONE FROM OXYGEN AT HIGH PRESSURES
FTD-TT-64-195/1&2&4 N64-22668 15-07

ELECTROREDUCTION OF NITROBENZENES IN LIQUID AMMONIA SOLUTIONS N64-22882 16-06

STATISTICAL METHODS IN ELECTROCHEMICAL RESEARCH N64-22890 16-06

ELECTROCHEMICAL METHOD FOR CORROSION PROTECTION OF STEEL
FTD-TT-64-21/1&2 N64-23315 16-18

ELECTROCHEMICAL DEVICE FOR OXYGEN REMOVAL
UNC-MTL-3722 N64-25762 17-06

BIOCHEMICAL FUEL CELL FOR ELECTROCHEMICAL ENERGY PRODUCTION
NASA-CR-54051 N64-25906 18-16

ROLE OF BACTERIA IN ELECTROCHEMICAL CORROSION OF STEEL IN SEA WATER
FTD-TT-64-393/1&4 N64-26123 18-18

CYCLIC LIFE OF SILVER OXIDE-ZINC BATTERY - ELECTROCHEMISTRY
APL-TDR-64-85 N64-26245 18-06

DYNAMIC LARGE SCREEN ELECTROCHEMICAL DISPLAY EMPLOYING PHOTOCONDUCTOR PHENOMENA IN CONJUNCTION WITH ELECTROCHEMICAL DEPOSITION ACTION
RADC-TDR-64-137 N64-26936 18-15

CAPACITOR ENERGY STORAGE, DYNAMIC PULSE SYSTEMS, AND ELECTROCHEMICAL PULSE SYSTEMS
IDA/HQ-63-1415 N64-27101 19-06

ELECTROCHEMICAL TECHNIQUES FOR PROTECTION OF MARINE STRUCTURES IN SEA WATER
JPRS-26067 N64-27638 19-07

RELATION OF DISSOLUTION KINETICS AND RESISTANCE TO PITTING CORROSION USING ELECTROCHEMISTRY
TR-4 N64-28160 20-18

CONTACT CORROSION UNDER LABORATORY AND NATURAL ATMOSPHERIC CONDITIONS
FTD-MT-63-124 N64-28169 20-18

ELECTROCHEMICAL ENERGY CONVERSION FOR NONAQUEOUS RESERVE BATTERY SYSTEMS
NAVWEPS-8193 N64-28789 20-06

CHEMICAL AND ELECTROCHEMICAL PASSIVATION AND CORROSION OF IRON IN NITRIC ACID
FTD-TT-62-1721/1&2 N64-29023 21-07

ELECTROCHEMICAL POWER OUTPUT OF HUMAN WASTE AS BIOCHEMICAL FUEL CELL
NASA-CR-58715 N64-29220 21-06

ELECTROCHEMICAL CORROSION BEHAVIOR OF STAINLESS STEEL AND NICKEL IN SULFURIC ACID SOLUTIONS SUBJECTED TO GAMMA RADIATION
FTD-MT-63-126 N64-30157 21-07

ELECTROCHEMICAL DEGRADATION OF HUMAN WASTES - BIOASSAY WITH CHLORELLA
AD-605724 N64-30569 22-16

FACTORS AFFECTING CHLORELLA GROWTH IN ELECTROCHEMICALLY DEGRADED HUMAN WASTE
AD-447801 N64-31315 22-16

ELECTROCHEMICAL ANALYSIS OF TANTALITE AND CONCOMITANT MINERALS DURING FLOTATION N64-31407 23-07

MULTIPURPOSE INSTRUMENT FOR ELECTROCHEMICAL STUDIES
DP-903 N64-32084 23-15

ELECTROCHEMISTRY AND MASS SPECTROMETRY OF NITROGEN FLUORINE COMPOUNDS
NRC-64-4 N64-32982 24-07

CATALYSIS IN ELECTROCHEMICAL ENERGY CONVERSION N64-33198 24-07

ELECTRODE
SA ANODE
SA CATHODE
MAGNETICALLY ROTATED ELECTRIC ARC AIR HEATER USING STRONG MAGNETIC FIELD AND COPPER ELECTRODES
NASA-TN-D-2032 N64-10347 01-10

SLAG COMPOSITION EFFECT ON MELTING OF ELECTRODE OF LARGE CROSS SECTION IN ELECTROSLAG PROCESS
JPRS-21983 N64-10387 01-17

ELECTRODELESS DETERMINATION OF ELECTRICAL CONDUCTIVITIES OF MELTS AT ELEVATED TEMPERATURES USING TRANSFORMER EDDY CURRENT METHOD
NAA-SR-8833 N64-10406 01-25

ELECTROLYTE PULSING USING CARBON ELECTRODE FOR IMPROVED FUEL CELL OPERATION
NASA-CR-52490 N64-10442 01-06

POWDER-PLATE ELECTRODE FOR ELECTROSLAG FACING - SHEET STEEL N64-10768 02-18

SILVER-ZINC BATTERIES AS THE POWER SUPPLY FOR EXPLORER XVII
NASA-TM-X-51150 N64-10905 02-06

BIOELECTROCHEMISTRY - ENZYME SYSTEMS, OXIDIZATION POTENTIAL, ELECTRODE, & CHRONOPOTENTIOMETRIC STUDY
NASA-CR-52607 N64-11103 02-16

SILVER-CADMIUM SEALED STORAGE BATTERY - SILVER ELECTRODE UTILIZATION & CHARGE-DISCHARGE TEST
WADD-TR-61-131, PT. 2 N64-11179 02-06

IMPLANTING ELECTRIC STIMULATOR UNDER SKIN THROUGH INTERSPACE FOR CARDIOVASCULAR SYSTEM STUDY
JPRS-21909 N64-11356 02-16

TYPES AND METHOD OF ATTACHING ELECTRODES IN RECORDING ELECTROCARDIOGRAM DURING SPACE FLIGHTS
N64-11710 03-16

AUXILIARY ELECTRODES TO INCREASE RECOMBINATION RATE OF OXYGEN GENERATED IN SEALED SILVER-CADMIUM CELLS DURING CHARGING
NASA-CR-55014 N64-12025 03-06

CURRENT-VOLTAGE TEST OF COAXIAL-CYLINDRICAL AND PLANE-PARALLEL ELECTRODES FOR THERMIONIC CONVERTER
TE-5-64 N64-12654 04-06

USE OF VACUUM-DEPOSITED ALUMINUM LEADS TO BASE AND EMITTER ELECTRODES OF HIGH-FREQUENCY GERMANIUM P-N-P TRANSISTORS
TR-1100 N64-12710 04-09

RADIATION EFFECT ON ELECTRODE BEHAVIOR IN NICKEL-CADMIUM BATTERY
NASA-CR-55217 N64-13187 04-06

GAS PRODUCTION BY SILVER OXIDE-SILVER ELECTRODES & POWDERS
NASA-CR-53002 N64-13285 04-06

PASSIVATION OF ALUMINUM ELECTRODES IN ANHYDROUS HYDROGEN FLUORIDE
TRACOR-63-278-U N64-13313 04-07

PERFORMANCE CHARACTERISTICS OF ELECTRODES, SIGNAL MODIFIERS, AND GRAPHIC RECORDING COMPONENTS IN PHYSIOLOGICAL MONITORING SYSTEM
AMRL-TDR-62-98/2/ N64-13872 05-14

INTERACTION BETWEEN ELECTRODES AND PLASMA IN THERMIONIC CONVERTER INTERELECTRODE SPACE
N64-14207 06-06

POROUS FLOW-THROUGH ELECTRODES OF PLATINUM BLACK
REPT.-5 N64-14812 06-06

ELECTRIC CELL RESEARCH - HYDROGEN ELECTRODES, SILVER OXIDE ELECTRODES, AND OXYGEN ELECTRODES FOR REGENERATIVE FUEL CELLS
NASA-CR-55664 N64-15536 07-06

MODEL FUEL CELL WHICH ENABLES INDIVIDUAL ELECTRODE POLARIZATION MEASUREMENT & TOTAL CELL POLARIZATION
NASA-CR-55642 N64-15898 07-06

PRESSURE, TEMPERATURE, PLATINUM-PALLADIUM CATALYST, AND ELECTROLYTIC PURITY EFFECTS ON HYDROGEN AND OXYGEN ELECTRODES
NASA-CR-55299 N64-15905 07-06

IRREVERSIBILITY OF OXYGEN CATHODE REDUCTION TO PEROXIDE IN FUEL CELL SYSTEMS - EFFECTS OF ELECTRODE AND ELECTROLYTE VARIATIONS
AD-429248 N64-15934 07-06

ELECTRODE STUDY OF REGENERATIVE FUEL CELL
NASA-CR-53011 N64-15967 07-06

RADIATION EFFECT ON NICKEL-CADMIUM BATTERY ELECTRODES
NASA-CR-55760 N64-16014 07-06

ANALYSIS AND CHARACTERIZATION OF ELECTRODES IN NICKEL-CADMIUM SEALED CELLS
NASA-CR-55772 N64-16270 08-06

CONSTRUCTION AND PERFORMANCE OF STANDARD AND SINTERED ELECTRODES, DESIGN OF IMMERSION BATH TEST APPARATUS FOR DUAL MEMBRANE FUEL CELL IMPROVEMENT
NASA-CR-55700 N64-16277 08-06

MATERIALS AND SINTERED ELECTRODE TESTING, FUEL CELL DESIGN, AND CHECKOUT OF TEST RIG FOR OSMOTIC STILL AND DUAL MEMBRANE FUEL CELL
NASA-CR-55702 N64-16278 08-06

MEMBRANE AND ELECTRODE TESTING AND MATERIAL ANALYSIS FOR OSMOTIC STILL AND DUAL MEMBRANE FUEL CELL
NASA-CR-55693 N64-16279 08-06

VOLTAGE-TIME BEHAVIOR OF CERAMIC ELECTRETS WITH CLOSELY FITTING ELECTRODES
FTD-TT-62-1925/1&2&4 N64-16408 08-19

EFFECT OF ELECTRODE NONUNIFORMITIES ALONG MAGNETIC FIELD IN MAGNETOHYDRODYNAMIC GENERATORS
AVCO-EVERETT RES. REPT.-176 N64-16866 08-24

FLOWING MERCURY ELECTRODE
AROD-2691-2 N64-17315 09-09

OXYGEN ELECTRODE REACTION ON ELECTRODES OF CATALYZED AND NONCATALYZED CARBON AND METALS IN ACID ELECTROLYTE N64-17394 09-06

THREE-CARBON HYDROCARBONS IN FUEL CELLS WITH ACID ELECTROLYTES USING PLATINUM CATALYZED ELECTRODES
N64-17395 09-06

NONPOLARIZING ELECTRODES FOR DETECTING SLOWLY VARYING BIOPOTENTIALS IN INTERNAL CAVITIES - BIOPHYSICS
NASA-TT-F-199 N64-17744 09-15

MAGNETOHYDRODYNAMICS, ELECTRON & ION EMISSION FROM TUNGSTEN FILAMENT, AND ION PENETRATION THROUGH IONIC DIPOLE LAYER AT ELECTRODE SURFACE
N64-17901 10-23

PENETRATION OF CESIUM IONS THROUGH IONIC DIPOLE LAYER AT ELECTRODE SURFACE N64-17905 10-23

MELTING OF LARGE DIAMETER ELECTRODES DURING ELECTROSLAG PROCESS
JPRS-24369 N64-18981 11-17

TRANSIENT HEAT TRANSFER PROCESS OF MOVING ELECTRIC ARC OVER ELECTRODE
ARL-64-32 N64-19100 11-13

CHARACTERIZATION OF NICKEL-CADMIUM ELECTRODES USED IN SEALED CELLS
NASA-CR-53731 N64-19573 12-04

LIMITATION OF FUEL CELL ELECTRODE PERFORMANCE
ASD-TDR-63-118 N64-19642 12-06

OXYGEN TRANSPORTATION FROM GAS FEED STREAM TO REACTION SITES AT ELECTRODE/ELECTROLYTE INTERFACE
TRACOR-64-138-U N64-19818 12-08

CURRENT DISTRIBUTION IN MICROFISSURE SINGLE-PORE CELL & EFFECT OF PORE STRUCTURE ON TRANSIENT BEHAVIOR OF METAL ELECTRODES
NASA-CR-53688 N64-19988 12-23

USE OF STATIONARY AND ROTATING PLATINUM MICROELECTRODES AS VOLUMETRIC ELECTRODES
N64-20421 13-07

ISOTOPIC EXCHANGE REACTIONS IN CHEMISORPTION OF OXYGEN ON SILVER AND OTHER ELECTRODES
AD-438942 N64-21291 14-06

ELECTROCHEMICAL STUDY OF CATALYTIC ACTIVITY ON HYDROGEN ELECTRODE IN FUEL CELL
AD-432973 N64-21398 14-07

ELECTROTHERMAL PLASMA PROPULSION - SUBSTITUTION OF WATER-COOLED OR TUNGSTEN ELECTRODES FOR CONSUMABLE ELECTRODES N64-21703 15-24

INFLUENCE OF CONDITION OF ELECTROSLAG PROCESS ON MELTING SPEED OF HEAVY-GAUGE ELECTRODES
N64-21863 15-17

DROP TRANSFER OF ELECTRODE METAL DURING ELECTROSLAG WELDING N64-21864 15-17

ELECTROCHEMISTRY OF FUEL CELL ELECTRODES - HYDROGEN EVOLUTION AT DROPPING INDIUM AMALGAN ELECTRODE
TH-10 N64-22119 15-06

PERFORMANCE CHARACTERISTICS OF THIN FILM FUEL CELL ELECTRODES
QR-3 N64-22521 15-06

PERFORMANCE OF POROUS ELECTRODES IN DIFFUSION CONDITION OF FEEDING REAGENTS
FTD-TT-63-722/1&2 N64-22659 15-07

BEHAVIOR OF SILVER/SILVER CHLORIDE, CHLORIDE ELECTRODE IN AMMONIA N64-22883 16-06

CHARACTERISTICS OF LITHIUM ELECTRODE & LEWIS ACID-PROPYLENE CARBONATE ELECTROLYTES N64-22888 16-06

ELUCIDATION OF ORGANIC ELECTRODE REACTIONS N64-22889 16-06

GLASS VACUUM CHAMBER WITH ALUMINUM ELECTRODES FOR MEASURING X-RAY RADIATION FROM 0.4 TO 1,000,000 ROENTGENS PER MINUTE
FTD-TT-64-31/1&2 N64-23306 16-15

METALLOGRAPHIC ANALYSIS OF ELECTRODE EROSION PRODUCTS FORMED DURING SPARK EROSION MACHINING N64-23505 16-18

CRYSTAL DISLOCATION AND ORIENTATION EFFECT ON DOUBLE LAYER CAPACITY OF SILVER ELECTRODE SURFACES
AD-434716 N64-24061 16-25

OPTIMUM TRIODE INTEGRATION INTO X-BAND CIRCUITRY AND HIGH EMISSION DENSITY OXIDE CATHODE-TRIODE OCILLATORS FOR USE AT X-BAND
REPT.-10 N64-24074 16-09

PHOTOELECTRIC EFFECTS AT SEMICONDUCTOR ELECTRODES
AFCRL-64-362 N64-24136 16-09

ALTERNATING CURRENT MEASUREMENT OF ELECTRODE DIFFERENTIAL CAPACITANCE AND RESISTANCE OF ELECTROCHEMICAL CELL FOR ELECTROLYSIS
T-1716 N64-24154 16-09

HIGH PERFORMANCE LIGHTWEIGHT FUEL CELL ELECTRODES
NASA-CR-54084 N64-24985 17-06

ELECTRODE FOR RECORDING OF PSYCHOPHYSIOLOGICAL AND PHYSIOLOGICAL PHENOMENA IN HUMANS
NASA-CR-56205 N64-25767 17-16

FUEL CELLS - MASS TRANSFER IN SOLID METAL ELECTRODES, AND GAS SOLUBILITY AND DIFFUSIVITY IN ELECTROLYTES
UFGG-8 N64-25861 18-06

USE OF AUXILIARY ELECTRODES IN SILVER-ZINC AND SILVER-CADMIUM CELLS
NASA-CR-60000 N64-26588 18-06

EFFECTS OF SURFACE ROUGHNESS OF SOLID ELECTRODES ON ELECTROCHEMICAL MEASUREMENTS
TR-54 N64-26619 18-07

FABRICATION OF VERTICAL-ORIFICE TEFLON CAPILLARY OF TEFLON DROPPING-MERCURY ELECTRODE
ORNL-3654 N64-26797 18-17

CHARACTERIZATION OF NICKEL-CADMIUM ELECTRODES
NASA-CR-56625 N64-27384 19-06

OXYGEN ADSORPTION MECHANISMS AT SILVER, GOLD-SILVER, PALLADIUM, PALLADIUM OXIDE, AND PLATINUM ELECTRODE SURFACES - CHEMISORPTION
REPT.-4 N64-27612 19-07

ELECTROCHEMISTRY OF FUEL CELL ELECTRODES - HYDROGEN EVOLUTION AT SOLID INDIUM ELECTRODE
TH-11 N64-27623 19-07

ENERGY TRAPPING THEORY FOR MULTIELECTRODE RESONATOR DESIGN - VERY HIGH FREQUENCY FILTER CRYSTAL DEVELOPMENT
QR-3 N64-27696 19-09

LITHIUM-NICKEL HALIDE SECONDARY BATTERY - HALF CELLS, ELECTROLYTE CONDUCTIVITIES, POSITIVE AND NEGATIVE ELECTRODE PREPARATIONS
AD-601148 N64-27769 19-06

SPARK GAP STUDIES - ELECTRODE EROSION MEASUREMENTS USING COPPER-TUNGSTEN MATERIAL AND TRIGGERING SCHEME EVALUATION
USAELRDL-TR-2454 N64-27771 19-09

ELECTRODE MATERIALS FOR CONTACT ION ENGINES
AIAA PAPER-64-694 N64-28362 20-27

GAP CURRENTS LEADING TO ELECTRIC BREAKDOWN BETWEEN CLEAN AND CESIUM COATED TUNGSTEN ELECTRODES
AIAA PAPER-64-694 N64-28366 20-09

HYDROGEN-OXYGEN FUEL CELL STUDIES - CATALYSTS, ELECTRODES, AND ELECTROLYTES
APL-TDR-64-88 N64-28575 20-06

OXIDE-FREE PLATINUM ELECTRODES - CATALYTIC ACTIVITY FOR REDUCTION OF OXYGEN ON METAL ELECTRODE
REPT.-9 N64-28597 20-07

SORPTION OF ORGANIC FUELS DURING OXIDATION AT ELECTRODES
AROD-3472-3 N64-29012 20-07

FABRICATION OF RELATIVELY TRANSPARENT GERMANIUM PHOTOVOLTAIC CELL BACKED BY OPTICALLY REFLECTIVE ELECTRODE N64-29170 21-06

GAMMA RADIATION EFFECTS ON NICKEL-CADMIUM BATTERIES - CAPACITY LOSS OF CADMIUM ELECTRODE AND RADIOLYSIS OF AQUEOUS POTASSIUM HYDROXIDE ELECTROLYTE
NASA-CR-58570 N64-29691 21-06

ELECTRODE FOR ELECTROCHEMICAL FLUORINATION - SYNTHESIS OF NITROGEN-FLUORINE COMPOUNDS IN ANHYDROUS HYDROGEN FLUORIDE
TRACOR-64-228-U N64-29897 21-07

OXIDATION AND SURFACE ACTIVITY OF PLATINUM MONOCRYSTALLINE SPHERICAL ELECTRODES
FTD-TT-64-156/1&2 N64-30132 21-25

GAS-SOLID INTERACTIONS AT ELECTRODE SURFACES - INTERACTION OF INORGANIC GASES WITH NICKEL OXIDE
GA-5099 N64-30150 21-25

KINETICS OF HYDROGEN ELECTRODE WITH ROTATING DISK
TR-19 N64-30531 22-07

INTERACTION BETWEEN GASES & SOLIDS AT ELECTRODE SURFACES
GA-4719 N64-30550 22-07

CORRELATION BETWEEN ELECTROLYTE COMPOSITION VARIATIONS AND ELECTRODE BEHAVIOR CHANGES FOR NONAQUEOUS SECONDARY BATTERIES
NASA-CR-54164 N64-30863 22-06

ELECTRODE ATTACHMENT TECHNIQUES FOR EXPERIMENTS IN ELECTROPHYSIOLOGY OF NERVOUS SYSTEM N64-31546 23-16

GROUND ELECTRODES FOR ELECTRIC EQUIPMENT, POWER SUPPLY, AND TRANSMISSION SYSTEMS N64-32014 23-12

ELECTRODES FOR CROSSED FIELD PLASMA ACCELERATORS
NSL-62-113-9 N64-32321 23-24

PROJECTIONS ON ELECTRODES AND THEIR EFFECT ON ELECTRIC BREAKDOWN IN VACUUM
R-192 N64-32974 24-09

ION ROCKET SYSTEM - ENGINES AND ELECTRODE MATERIAL TEST PROGRAM
NASA-CR-59020 N64-33285 24-27

FUEL CELL MEMBRANE ELECTRODE TESTING FOR ACTIVITY

AS ANODES FOR OXIDATION OF HYDROGEN, PROPANE, HYDRAZINE, METHANOL, AND FOR REDUCTION OF OXYGEN
MRB-4020T1 N64-33316 24-06

COMPARATIVE ANALYSIS OF IONIZATION CURRENTS FOR PAIRS OF PARALLEL CYLINDRICAL ELECTRODES SUBJECTED TO COBALT 60 RADIATION
NARF-63-16T N64-33556 24-23

ELECTROCATALYSIS - HYDROGEN EVOLUTION AT DILUTE PLATINUM & PALLADIUM AMALGAM FUEL CELL ELECTRODES
TM-7 N64-33757 24-06

MULTIPLE ELECTRODE IMPLANTATION INTO SUBCORTICAL STRUCTURES OF HUMAN BRAIN
FTD-TT-63-1119/1&2&4 N64-33970 24-16

ELECTRODERMAL RESPONSE
ELECTROSLEEP INFLUENCE ON THERMOREGULATION REFLEX AND ELECTRIC RESISTANCE OF SKIN IN PATIENTS WITH PRURITIC DERMATOSIS
R&IC-105 N64-13812 05-16

EFFECT OF ADJACENT COOLING ON GALVANIC SKIN RESPONSE AND SKIN RESISTANCE OF ISOTHERMAL AREA
SAM-TDR-63-70 N64-32602 23-16

ELECTRODYNAMICS
SHORT-CIRCUITED-RING ELECTRODYNAMIC AMMETER FOR ESTABLISHING ACCURATE ABSOLUTE STANDARD OF CURRENT AT HIGH FREQUENCIES N64-10463 01-09

QUANTUM ELECTRODYNAMICS - HIGH ENERGY INTERACTIONS OF ELECTRONS AND POSITRONS
JPRS-17999 N64-10494 01-23

ELECTRODYNAMIC DAMPER BASED ON ELECTROMAGNETIC INTERACTION BETWEEN DAMPING SYSTEM AND VIBROEXTINGUISHED ELEMENT
FTD-MT-63-28/1&2&3&4 N64-11161 02-23

ELECTROMAGNETIC RADIATION REFLECTION BASED ON CLASSICAL ELECTRODYNAMICS
RF-TR-63-4, VOL. 1 N64-12178 03-23

ELECTRODYNAMICS OF HELIUM SUPERFLUID FLOW AND ELECTRIC FIELD INVESTIGATION OF LIQUID AND SOLID HELIUM STRUCTURES
NASA-CR-55303 N64-14277 06-23

QUANTUM ELECTRODYNAMIC THEORY OF ELECTRON INTERACTIONS USING HELIUM ISOELECTRONIC SEQUENCE
AFCRL-64-224 N64-16564 08-23

ELECTRODYNAMICS AND PLASMA PHYSICS IN COSMOLOGY AND ASTROPHYSICS
NASA-TT-F-175 N64-17162 09-24

INCOHERENT SCATTERING OF RADIO WAVES FROM HOT PLASMA USING QUANTUM ELECTRODYNAMICAL COMPUTING METHODS
RM-3440-PR N64-17300 09-24

SIMULATING FLIGHT ENVIRONMENT SHOCK ON ELECTRODYNAMIC SHAKER N64-20247 13-10

ANTENNAS & ELECTRODYNAMICS
FTD-TT-62-1826 N64-23876 16-09

MINKOWSKI THEORY OF ELECTRODYNAMICS OF MOVING MEDIA N64-26598 18-23

ELECTRODYNAMICS OF MOVING MEDIA - MINKOWSKI THEORY
NASA-CR-58561 N64-29694 21-11

CONSTRUCTION OF GAUGE-INVARIANT NONLOCAL FORM OF QUANTUM ELECTRODYNAMICS
TH-38/11 N64-30541 22-23

QUANTUM ELECTRODYNAMICS WITHOUT INDEFINITE METRIC
ARL-64-167 N64-31928 23-23

FINITE QUANTUM ELECTRODYNAMICS- FIELD THEORY USING INDEFINITE METRIC
UR-875-54 N64-33429 24-23

ELECTROENCEPHALOGRAM
CORTICAL-SUBCORTICAL RELATIONSHIPS OF CHIMPANZEE DURING DIFFERENT PHASES OF SLEEP - EEG COMPUTER ANALYSIS
NASA-CR-55689 N64-16324 08-16

COMPUTER ANALYSIS OF PROLONGED EFFECTS OF LYSERGIC ACID DIETHYL AMIDE ON ELECTROENCEPHALOGRAM RECORDS DURING DISCRIMINATIVE PERFORMANCE IN CAT
N64-22427 15-16

FLUCTUATIONS IN ELECTROENCEPHALOGRAM OF MAN UNDER EXTENDED ISOLATION N64-23867 16-16

STABILITY OF ELECTROENCEPHALOGRAM TRACINGS IN SLEEP
NASA-CR-56908 N64-27395 19-16

INFORMATION THEORY AND HUMAN THINKING, INFORMATION PERCEPTION, & ELECTROENCEPHALOGRAM ANALYSIS USING PROBABILITY THEORY
JPRS-26839 N64-33010 24-14

ELECTROENCEPHALOGRAPHY
CF BRAIN
SMALL MULTICHANNEL ELECTROENCEPHALOGRAPHIC TELEMETERING SYSTEM
RLE-TR-413 N64-13243 04-08

ELECTROENCEPHALOGRAPHIC RECORDING OF EFFECTS OF PROFOUND ANOXIA UPON CENTRAL NERVOUS SYSTEM
N64-14585 06-16

INFLIGHT VERTIGO AND LOSS OF CONSCIOUSNESS - ELECTROENCEPHALOGRAPHIC STUDIES
CARI-63-21 N64-14952 06-16

ANALYTICAL METHODS OF ELECTROENCEPHALOGRAPHY FOR MEDICAL DIAGNOSIS
JPRS-23590 N64-16668 08-16

HUMAN BEHAVIOR - NONLINEAR OSCILLATIONS AND ELECTROENCEPHALOGRAPHY
AFCRL-63-364 N64-18581 11-14

ELECTROENCEPHALOGRAPHY FOR USE IN AIRCREW AND ASTRONAUT SELECTION
REPT.-12-63 N64-20380 13-16

ELECTROENCEPHALOGRAPHIC CHANGES IN HUMANS DURING BLACKOUTS INDUCED BY ACCELERATION
NADC-ML-6402 N64-20450 13-16

RELATIONSHIP BETWEEN CORTICAL ENDING OF VISUAL ANALYZER IN BINOCULAR VISION AND VISION DISTURBANCE - ELECTROENCEPHALOGRAPHY
N64-25136 17-16

NONLINEAR OSCILLATION AND EPILEPTIC ELECTROENCEPHALOGRAPHIC PHENOMENA
AFCRL-63-149/1/ N64-25395 17-23

SYSTEM FOR VISUAL DISPLAY AND PHOTOGRAPHIC RECORDING OF MULTIPLEXED SIGNALS FROM MULTICHANNEL ELECTROENCEPHALOGRAPH
FTD-TT-63-1190/1&2&4 N64-26212 18-16

ELECTROENCEPHALOGRAPHIC AND NEUROPHYSIOLOGICAL STUDIES OF BRAIN FUNCTION AND BEHAVIOR
AFOSR-64-1195 N64-30465 22-16

ELECTRICAL ACTIVITY OF CORTEX AND DEEP BRAIN STRUCTURES OF MACAQUE MONKEY DURING SLEEP USING BIPOLAR SURFACE & IMPLANTED ELECTROENCEPHALOGRAPH ELECTRODES
NASA-CR-59001 N64-33041 24-16

ELECTROHYDRODYNAMICS
UNIPOLAR IONIZED GAS FLOW THROUGH SLENDER CYLINDRICAL CHANNELS - ELECTROGASDYNAMIC APPLICATIONS
ARL-63-205 N64-14658 06-24

ELECTROHYDRAULIC FEEDING AND ATOMIZING LIQUID FUELS AND OTHER LIQUIDS
FTD-TT-63-478/1&2 N64-22649 15-07

EFFECTS OF PARTIAL CONDENSATION AROUND IONS IN ELECTROHYDRODYNAMIC ENERGY CONVERSION
GSP-64 N64-33832 24-11

ELECTROLUMINESCENCE
CF SELF-LUMINOUS BODY
CARRIER INJECTION ELECTROLUMINESCENT SOLID STATE LIGHT SOURCES
AFCRL-63-526 N64-13625 05-25

SILICON CARBIDE DIODES - ELECTROLUMINESCENT PHENOMENA
N64-13750 05-25

SPECTRA DISTRIBUTION OF ELECTROLUMINESCENCE OF MANGANESE AND ZINC DIFFUSED P-N JUNCTIONS
N64-17874 10-25

PHOTOCONDUCTOR-ELECTROLUMINESCENT SOLID STATE LIGHT INTENSIFIER
NAVTRADEVCEN-562-1 N64-18563 11-25

FABRICATION AND PROPERTIES OF GALLIUM ARSENIDE ELECTROLUMINESCENT DIODE AND OPTICALLY COUPLED SILICON TRANSISTOR
AD-426185 N64-19812 12-25

PHOTOCONDUCTOR AND ELECTROLUMINESCENT LAMP FOR SOLID STATE DISPLAY DEVICE
RTD-TDR-63-4163 N64-20384 13-09

COMPUTER PROGRAM FOR CIRCUIT PARAMETERS OF ELECTROLUMINESCENT PHOTOCONDUCTOR - IMAGE INTENSIFIER
NYER-4 N64-24901 17-25

MATHEMATICAL ANALYSIS OF PHOTOCONDUCTOR ELECTROLUMINESCENCE CIRCUIT FOR IMAGE INTENSIFIER
NYER-6 N64-26862 18-09

MANUFACTURING AND CURRENT-VOLTAGE MEASUREMENTS OF THIN-FILM ELECTROLUMINESCENT CELLS
SNIR-63-3 N64-27235 19-25

ELECTROLUMINESCENT RESPONSE TO PULSE EXCITATION
USAELRDL-TR-2452 N64-27724 19-25

MEDIUM RESOLUTION ELECTROLUMINESCENT DISPLAY PACKAGE FOR SPACECRAFT VISUAL INSTRUMENTATION
N64-28308 20-09

PERFORMANCE CHARACTERISTICS OF ELECTROLUMINESCENT ZINC SULFOSELENIDE PHOSPHOR POWDERS IN PLASTIC DIELECTRICS
RACC-TDR-64-159 N64-29965 21-07

ELECTROLUMINESCENT VIDEO DISPLAYS - SOLID STATE TELEVISION RECEIVERS
GE/EE/63-22 N64-31233 22-09

PREPARATION AND ELECTROLUMINESCENCE OF ZINC AND CADMIUM SEMICONDUCTOR MATERIALS FOR LASERS
AD-442258 N64-31642 23-25

VISIBLE ELECTROLUMINESCENCE FROM P-N JUNCTIONS IN DIFFUSION BONDED SEMICONDUCTORS
N64-31646 23-25

INJECTION ELECTROLUMINESCENCE IN ZINC TELLURIDE P-TYPE SEMICONDUCTORS
N64-31647 23-25

ELECTROLYSIS
CF CHEMICAL REACTION
CF DECOMPOSITION
CF DISSOCIATION
ELECTROLYTIC PREPARATION OF HIGH DIELECTRIC CONSTANT TITANIUM OXIDE FILMS
NASA-CR-52190 N64-10096 01-09

ELECTROLYTIC PRODUCTION OF OXYGEN & REDUCTION OF CARBON DIOXIDE FROM AQUEOUS SOLUTIONS OF FORMIC ACID
NASA-CR-52878 N64-11325 02-06

EVALUATION OF METAL-TO-METAL BASKET-TYPE ELECTROLYTIC DISSOLVER FOR NUCLEAR FUELS
IDO-14604 N64-11807 03-17

HYDROGEN-OXYGEN ELECTROLYTIC REGENERATIVE FUEL CELLS
NASA-CR-55059 N64-11809 03-06

MATERIALS, CELL ARRANGEMENT, AND FABRICATION METHODS FOR MOBILE ELECTROLYSIS APPARATUS
EDR-3687, VOL. 1 N64-12095 03-C7

ELECTROLYSIS OF WATER IN HYDRATED PHOSPHORUS PENTOXIDE ELECTROLYTES - OXYGEN PRODUCTION SYSTEM
AMRL-TDR-63-95 N64-12979 04-17

BIBLIOGRAPHY OF THEORIES OF STATE EQUATIONS FOR IONIZED GASES & ELECTROLYTIC SOLUTIONS
UCRL-6473, SUPPL. 1 N64-14068 05-23

ELECTROLYTIC PRODUCTION OF HIGH DIELECTRIC THIN FILMS
NASA-CR-55495 N64-15897 07-23

CURRENT, VOLTAGE, AND ELECTROLYTE COMPOSITION FOR ELECTROLYTIC HEAT TREATMENT OF METALS
NAEC-AML-1835 N64-16449 08-17

DIRECT ELECTROLYSIS OF URANIUM DIOXIDE TO URANIUM METAL IN FLUORIDE MELTS
BM-RI-6436 N64-18990 11-17

PREPARATION OF LITHIUM HYDROXIDE ON SOLID CATHODE BY ELECTROLYSIS OF LITHIUM CHLORIDE SOLUTION
JPRS-24912 N64-21284 14-07

HERMETICALLY SEALED TANTALUM FOIL ELECTROLYTIC CAPACITORS FOR OPERATION IN SPACE ENVIRONMENT
AD-430355 N64-21325 14-09

ELECTROCHEMICAL TECHNOLOGY APPLICABLE TO WATER ELECTROLYSIS
EDR-3687, VOL. II N64-21835 15-07

EFFECT OF COMPOSITION, HEAT, AND ELECTROLYTIC TREATMENT ON DIELECTRIC PROPERTIES OF STEATITE CERAMICS
FTD-TT-62-1800/1&2&4 N64-21926 15-19

FLUORINE OXIDIZERS - ELECTROLYTIC STUDIES IN BROMINE FLUORINE COMPOUNDS
QTSR-3 N64-22126 15-07

OBTAINING OXYGEN BY ELECTROLYTIC DECOMPOSITION OF WATER UNDER CONDITIONS OF WEIGHTLESSNESS
N64-23773 16-16

CONCEPTUAL DESIGN OF COMPACT MOBILE ELECTROLYSIS UNIT FOR PRODUCTION OF HYDROGEN FROM WATER
EDR-3714, VOL. 1 N64-25524 17-06

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON DIOXIDE
AMRL-TDR-64-35 N64-27432 19-16

CATHODIC AND ANODIC YIELDS OF BROMINE AND BROMINE PENTAFLUORIDE AND GLOW DISCHARGE ELECTROLYSIS
QTSR-4 N64-27748 19-07

PRODUCTION OF DUCTILE NIOBIUM FROM ELECTROLYTIC POWDERS
JPRS-16063 N64-28633 20-07

ELECTROLYTIC PREPARATION OF HIGH DIELECTRIC THIN FILMS FOR CAPACITIVE ELEMENTS IN INTEGRATED CIRCUITRY
NASA-CR-58503 N64-29186 21-07

HIGH PRESSURE ELECTROLYSIS AND HYDROX FUEL CELL FOR HIGH EFFICIENCY ENERGY CONVERSION AND STORAGE
N64-29489 21-06

TWO ENERGY STORAGE SYSTEMS - STORAGE IN HIGH INTENSITY MAGNETIC FIELDS AND BY ELECTROLYSIS OF WATER STORING HYDROGEN AT HIGH PRESSURE
N64-29490 21-06

CONSTRUCTION & TEST OF HYDROGEN-OXYGEN ELECTROLYTIC REGENERATIVE FUEL CELLS
NASA-CR-58583 N64-29521 21-06

ELECTROLYTE
SA ANION
SA MOLTEN-SALT ELECTROLYTE
CF BATTERY
ELECTROLYTE MATRIX COMBINATIONS FOR MERCURY POTASSIUM FUEL CELL

NASA-CR-52141 N64-10085 01-06

ELECTROLYTE PULSING USING CARBON ELECTRODE FOR IMPROVED FUEL CELL OPERATION
NASA-CR-52490 N64-10442 01-06

ELECTROCHEMICAL PROPERTIES OF LIQUID AND FROZEN ELECTROLYTES AT LOW TEMPERATURES
FGT-2917 N64-12318 03-23

MAGNESIUM ANODE BEHAVIOR WITH ELECTROLYTES OF MAGNESIUM COMPOUNDS N64-12980 04-09

INTRAVASCULAR AIR BUBBLE FORMATION AFTER OXYGEN DECOMPRESSION IN ALBINO RATS WITH ELECTROLYTIC SALT SOLUTIONS IN PLASMA N64-15040 07-16

PREPARATION OF WATER RESISTOR WITH LOW TEMPERATURE RESISTANCE COEFFICIENT FROM ELECTROLYTIC SOLUTIONS
SC-4794/RR/ N64-15249 07-09

PHASE DIAGRAMS FOR ELECTROLYTES, OXYGEN IN FUSED FLUORIDE ELECTROLYTE, ANALYSIS OF URANIUM ALLOYS, AND METHOD FOR ANALYZING HIGH PURITY MAGNESIUM
MCW-1482 N64-15561 07-19

MATRIX, SEAL, & ELECTROLYTE DEVELOPMENT FOR THERMALLY REGENERATIVE LIQUID METAL FUEL CELL FOR CONVERSION OF HEAT DIRECTLY INTO ELECTRIC ENERGY
EDR-3344 N64-15624 07-06

ELECTROLYTE TRANSPORT MECHANISM OF SILVER-CADMIUM ALKALINE CELL DURING CHARGE-DISCHARGE CYCLE
AD-404628 N64-15693 07-06

IRREVERSIBILITY OF OXYGEN CATHODE REDUCTION TO PEROXIDE IN FUEL CELL SYSTEMS - EFFECTS OF ELECTRODE AND ELECTROLYTE VARIATIONS
AD-429248 N64-15934 07-06

ELECTROLYTE STORAGE AND REGENERATIVE FUEL CELL DEVELOPMENT
NASA-CR-53068 N64-15966 07-06

CONTAINERS, BONDING, AND ELECTROLYTES FOR SILVER-CADMIUM BATTERY
NASA-CR-55792 N64-16036 07-06

SOLID ELECTROLYTE FUEL CELL FOR SPACECRAFT ELECTRIC POWER SUPPLY
ASD-TDR-63-448 N64-16060 07-06

FEASIBILITY OF SOLID ELECTROLYTE FUEL CELLS FOR AEROSPACE APPLICATION
AD-283434 N64-16101 07-06

ELECTROLYTE SELECTION FOR HIGH ENERGY DENSITY STORAGE BATTERY
NASA-CR-55743 N64-16268 08-06

SOLID ELECTROLYTE TANTALUM FOIL CAPACITOR
AD-428360 N64-16512 08-09

ELECTROLYTE MATRIX FOR LIQUID POTASSIUM-MERCURY FUEL CELL
NASA-CR-53108 N64-16747 08-06

OXYGEN ELECTRODE REACTION ON ELECTRODES OF CATALYZED AND NONCATALYZED CARBON AND METALS IN ACID ELECTROLYTE N64-17394 09-06

PERFORMANCE OF AIR-BREATHING SOLID ELECTROLYTE FUEL CELLS N64-17405 09-06

ELECTROLYTE MATRIX COMBINATIONS FOR MERCURY-POTASSIUM FUEL CELL
NASA-CR-53297 N64-17606 09-06

BIO-ORGANIC CHEMISTRY - METAL ION INTERACTION WITH POLYELECTROLYTES
UCRL-9519 N64-18090 10-07

PERFORMANCE CHARACTERISTICS OF MERCURY-POTASSIUM FUEL CELLS WITH VARIOUS ELECTROLYTE COMBINATIONS
NASA-CR-53353 N64-18289 10-06

EFFECT OF MODIFYING GAS-ELECTROLYTE INTERFACE BY PULSES ON FUEL CELL PERFORMANCE
NASA-CR-54031 N64-19223 11-06

TITANIUM ELECTROREFINING CELLS USING SODIUM CHLORIDE-TITANIUM CHLORIDE ELECTROLYTES
BM-RI-6432 N64-19226 11-17

VOLTAGE AND CAPACITY STUDIES OF ELECTROLYTES FOR SILVER-CADMIUM BATTERY IN SPACE APPLICATION
NASA-CR-53832 N64-19593 12-06

OXYGEN TRANSPORTATION FROM GAS FEED STREAM TO REACTION SITES AT ELECTRODE/ELECTROLYTE INTERFACE
TRACOR-64-138-U N64-19818 12-06

FABRICATION OF SOLID ELECTROLYTE /MANGANESE OXIDE/ TANTALUM FOIL CAPACITOR
AD-436726 N64-20138 13-09

HIGH ENERGY BATTERY SYSTEM - EXAMINING ELECTRODE MATERIALS IN HALF-CELL STUDIES WITH VARIETY OF ELECTROLYTES
R-5405-2 N64-20375 13-06

ALKALI METAL ANODES IN LIQUID SULFUR DIOXIDE ELECTROLYTIC SOLUTIONS N64-22884 16-06

CHARACTERISTICS OF LITHIUM ELECTRODE & LEWIS ACID-PROPYLENE CARBONATE ELECTROLYTES N64-22888 16-06

ZEOLITE MEMBRANE ELECTROLYTES FOR FUEL CELLS
NASA-CR-54023 N64-23947 18-26

FUEL CELLS - MASS TRANSFER IN SOLID METAL ELECTRODES, AND GAS SOLUBILITY AND DIFFUSIVITY IN ELECTROLYTES
UFGG-8 N64-25861 18-06

LITHIUM-NICKEL HALIDE SECONDARY BATTERY - HALF CELLS, ELECTROLYTE CONDUCTIVITIES, POSITIVE AND NEGATIVE ELECTRODE PREPARATIONS
AD-601148 N64-27769 19-06

HYDROGEN-OXYGEN FUEL CELL STUDIES - CATALYSTS, ELECTRODES, AND ELECTROLYTES
APL-TDR-64-88 N64-28575 20-06

ANNEALING OF ETCHED TANTALUM FOIL AND OPTIMUM ELECTROLYTE COMPOSITION FOR SOLID ELECTROLYTE TANTALUM FOIL CAPACITOR
AD-603305 N64-28607 20-09

DRY TAPE BATTERY - ORGANIC NITRO COMPOUND DEPOLARIZERS, ELECTROLYTE ENCAPSULATION, & TAPE MANUFACTURING METHODS
NASA-CR-54165 N64-29417 21-06

IMPROVED RELIABILITY OF SOLID TANTALUM ELECTROLYTE CAPACITORS
QR-3 N64-30793 22-17

CORRELATION BETWEEN ELECTROLYTE COMPOSITION VARIATIONS AND ELECTRODE BEHAVIOR CHANGES FOR NONAQUEOUS SECONDARY BATTERIES
NASA-CR-54164 N64-30863 22-06

COPPER PLATING OF STEEL, ZINC ALLOY, AND ALUMINUM FROM PYROPHOSPHATE ELECTROLYTES N64-31424 23-17

MASS TRANSPORT MECHANISMS OF OXYGEN IN THREE-PHASE ZONE OF CATHODE COVERED WITH THIN FILM OF ELECTROLYTE
AFCRL-64-539 N64-31824 23-07

ELECTRIC PROPERTIES OF BARRIER LAYER OXIDE FILMS AND MECHANISM OF ELECTROLYTIC RECTIFICATION N64-32844 24-25

CONTROLLING ELECTROLYTE LEVELS IN CYCLING SEALED BATTERY CELLS WITH BELLOWS ASSEMBLY
NASA-CR-59373 N64-33918 24-04

ELECTROMAGNET
S COIL

ELECTROMAGNETIC ABSORPTION
ELECTROMAGNETIC WAVE MATCHING AND ABSORBING MATERIALS

ASR-4 N64-29952 21-25

ELECTROMAGNETIC COMPATIBILITY
OF ELECTRONIC EQUIPMENT TESTING
TECHNOLOGY OF ELECTROMAGNETIC COMPATIBILITY
AD-434850 N64-22809 16-09

RADIO FREQUENCY INTERFERENCE CONTROL & DETECTION - ELECTROMAGNETIC COMPATIBILITY N64-22810 16-09

ELECTROMAGNETIC COMPATIBILITY BY CONTROL OF WIRING INSTALLATION IN AIRCRAFT N64-22818 16-09

INTERFERENCE FACILITY FOR ELECTROMAGNETIC COMPATIBILITY TESTING N64-22831 16-09

COMPUTER AUTOMATED MATHEMATICAL MODELS FOR QUICK TIME SOLUTIONS TO ELECTROMAGNETIC COMPATIBILITY PROBLEMS N64-22835 16-09

ELECTROMAGNETIC COMPATIBILITY PROGRAM FOR RF-4C PHANTOM II AIRCRAFT N64-22846 16-09

ELECTROMAGNETIC COMPATIBILITY TESTS FOR WEAPONS SYSTEMS N64-22848 16-09

ELECTROMAGNETIC COMPATIBILITY AND LINEAR ELECTRON BEAM PROPAGATIONS
RADC-TDR-64-140, VOL. III N64-24837 17-09

ELECTROMAGNETIC COMPATABILITY AND REDUCTION OF SPURIOUS OUTPUT SIGNALS IN HIGH POWER KLYSTRONS N64-24838 17-09

FREQUENCY ASSIGNMENT FOR REDUCTION OF RADIO INTERFERENCE - ELECTROMAGNETIC COMPATIBILITY
USAELRDL-TR-2381 N64-32449 23-08

ELECTROMAGNETIC WAVE COMPATIBILITY & EFFICIENCY OF FREQUENCY ASSIGNMENT PLAN FOR LIMITING SPURIOUS INTERFERENCE
USAELRDL-TR-2377 N64-33527 24-08

ELECTROMAGNETIC FIELD
QUANTUM MECHANICAL CALCULATION OF SPACE-TIME CORRELATION OF ELECTROMAGNETIC FIELD COMPONENTS IN BLACKBODY RADIATION N64-13429 05-23

ELECTROMAGNETIC FIELD NEAR APEX OF WEDGE SURFACE
NBS-TN-204 N64-13940 05-23

EVALUATION OF POLE CONTRIBUTIONS TO ELECTROMAGNETIC FIELD USING SADDLE POINT TECHNIQUE
AFCRL-63-565 N64-14305 06-23

CHEBYSHEV METHOD FOR ELECTROMAGNETIC FIELD SOLUTION OF RADAR CROSS SECTION OF PLASMA WAKE N64-15254 07-24

WIRELESS PROBE FOR ELECTROMAGNETIC FIELD MEASUREMENT
AFCRL-63-389 N64-15496 07-15

DETECTION OF UNDERWATER VEHICLES AND OTHER OBJECTS BY USE OF GEOMAGNETIC, ELECTRIC, AND ELECTROMAGNETIC FIELDS & SENSING DEVICES
JPRS-23491 N64-15927 07-12

CLOSE-IN ELECTROMAGNETIC FIELDS PRODUCED BY GEOMAGNETIC FIELD INTERACTION WITH ELECTRONS FROM NUCLEAR EXPLOSION
RM-3525-PR N64-16044 07-23

SHORT-PERIOD PULSATIONS OF EARTH ELECTROMAGNETIC FIELD AND PROCESSES IN UPPER ATMOSPHERE
JPRS-24085 N64-17975 10-12

ELECTROMAGNETIC FIELDS IN OPTICAL RESONATORS INVOLVING FOCUSING ELEMENTS
AFCRL-63-933 N64-20173 13-25

ROTATING MACHINERY USING SUPERCONDUCTORS
AVCO-EVERETT RES. REPT.-181 N64-21154 14-06

ELECTROMAGNETIC FIELD IN FRESNEL REGION OF CASSEGRAIN ANTENNA
RADC-TDR-62-360, VOL. II N64-22475 15-08

NOISE-LIKE ELECTROMAGNETIC FIELDS OF ARBITRARY SPECTRAL WIDTH
TR-32 N64-23646 16-09

NONLINEAR INTERACTION OF ELECTROMAGNETIC FIELD WITH ISOTROPIC, HOMOGENEOUS MEDIUM
RM-4093-PR N64-24170 16-23

FIELD EQUATIONS, JUMP CONDITIONS, AND CONSTITUTIVE EQUATIONS OF POLAR ELASTIC DIELECTRIC SUBJECT TO DEFORMATIONS AND ELECTROMAGNETIC FIELDS
TA-25 N64-24389 17-25

ELECTROMAGNETIC MEASUREMENTS OF EARTH ENVIRONMENT USING ROCKET AND SATELLITE PROBES
AFCRL-64-357 N64-25328 17-12

COSMIC RAYS, INTERPLANETARY SPACE ELECTROMAGNETIC STATES, FORBUSH DECREASE, & RADIOSONDE MEASUREMENT
AD-434540 N64-25639 17-28

ELECTROMAGNETIC FIELD IN FOCAL REGION OF COHERENT LIGHT BEAMS
PR-3 N64-26848 18-25

STATISTICAL MECHANICS OF ELECTROMAGNETIC FIELD N64-26999 19-24

ELECTROMAGNETIC FIELD FLUX DENSITY CALCULATIONS IN PERIODICALLY NONLINEAR SYSTEMS N64-27160 19-24

TWO DIMENSIONAL ELECTROMAGNETIC FIELDS GUIDED BY PLASMA LAYERS N64-27161 19-24

RECEIVING AND TRANSMITTING PROPERTIES OF SMALL LINEAR ANTENNAS, CONICAL ANTENNAS, AND LOOPS FOR TRANSIENT ELECTROMAGNETIC FIELDS
TR-434 N64-27656 19-08

THEORY OF SUPERCONDUCTIVITY AND BEHAVIOR OF SUPERCONDUCTORS IN HIGH FREQUENCY ELECTROMAGNETIC FIELDS N64-29068 21-23

INCIDENCE OF PLANE WAVES ON INTERFACE BETWEEN VACUUM AND INHOMOGENEOUS ABSORBING MEDIUM N64-29466 21-09

MAGNETOHYDRODYNAMICS OF LIQUID METALS IN ELECTROMAGNETIC FIELDS
JPRS-26459 N64-29949 21-24

FIELD AND CURRENT DISTRIBUTIONS IN CADMIUM SULFIDE SEMICONDUCTORS AND PHOTOCONDUCTORS
PR-1 N64-30771 22-25

COMMUTATION RELATIONS FOR ELECTROMAGNETIC POTENTIALS
ARL-64-166 N64-30953 22-23

ELECTROMAGNETIC FIELD IN REGION OF JOINT OF MULTIMODE RECTANGULAR WAVEGUIDES N64-31363 23-09

CONFINED ELECTROMAGNETIC FIELD SHIELDING OF SPACECRAFT - ACTIVE SHIELDING OF IONIZED RADIATION IN SPACE
NASA-CR-58950 N64-31552 23-34

ELECTROMAGNETIC FIELDS IN FOCAL REGION OF PARABOLIC RECEIVING ANTENNA
REPT.-1223-16 N64-31687 23-08

MODAL ANALYSIS AND SYNTHESIS OF ELECTROMAGNETIC FIELDS - APPROXIMATE METHODS FOR SOLVING TRANSMISSION LINE EQUATIONS IN VARIABLE MEDIA
PIBMRI-1225-64 N64-32103 23-08

GROUND WAVE PROPAGATION AND HARMONICS OF ELECTROMAGNETIC FIELD OVER EARTH SURFACE N64-32227 23-08

SENSITIVITY OF CENTRAL NERVOUS SYSTEM OF RABBIT TO CONTINUOUS ULTRAHIGH FREQUENCY ELECTROMAGNETIC FIELD N64-32782 24-16

ELECTROMAGNETIC INTERACTION
ELECTROMAGNETIC INDUCTION THEORY OF THUNDERSTORMS APPLICABLE TO TORNADOS

JPRS-21343 N64-10324 01-21

SYMMETRY THEORY OF WEAK AND STRONG ELECTROMAGNETIC INTERACTIONS IN BOSON INTERMEDIATE FIELD
N64-11000 02-23

ELECTRODYNAMIC DAMPER BASED ON ELECTROMAGNETIC INTERACTION BETWEEN DAMPING SYSTEM AND VIBROEXTINGUISHED ELEMENT
FTD-MT-63-28/1&2&3&4 N64-11161 02-23

BIBLIOGRAPHY OF ELECTROMAGNETIC INTERACTION, MESON ATOMIC & MOLECULAR STRUCTURE, MESON-NUCLEON INTERACTION, COSMIC RAYS, AND MESON BEAMS
BNL-809/L-342/ N64-14757 06-23

INTERACTION AND COUPLING OF ELECTROMAGNETIC AND HYDRODYNAMIC FIELDS IN MEDIUM WITH UNIFORM MAGNETIC FIELD STRENGTH N64-20760 14-24

ELECTROMAGNETIC INTERACTION OF ELECTRON CLUSTERS DURING COHERENT RADIATION IN SYNCHROTRON
FTD-TT-62-1747/1&2&4 N64-21925 15-23

INTERACTION OF ELECTROMAGNETIC WAVES IN PLASMA
AROD-3420-8 N64-24203 16-24

ANALYSIS OF PION-PION REACTION PRODUCING DEUTERON AND VECTOR MESON - NUCLEAR ELECTROMAGNETIC REACTION
TH-56 N64-26046 18-23

ELECTROMAGNETIC MASS DIFFERENCES IN UNITARY SYMMETRY MODEL
UR-875-26 N64-26684 18-23

ELECTROMAGNETIC MEASUREMENT
CF MAGNETIC MEASUREMENT
DIRECTIONAL ELECTROMAGNETIC INDUCTION SOUNDING FOR HIGH CONDUCTIVITY STRUCTURES COVERED BY LOW CONDUCTIVITY ROCKS - GEOLOGICAL SURVEY
N64-11491 03-12

TESTING OF BANSHEE PROJECT ELECTROMAGNETIC MEASURING INSTRUMENTS
EG&G-B-2687 N64-20096 13-23

ELECTROMAGNETIC NOISE PULSE MEASUREMENTS OF VERTICALLY CONDUCTING CLOUD DEVELOPMENT
AFCRL-64-333 N64-26949 18-21

TROPOSPHERIC REFRACTION PROBLEMS FOR ELECTROMAGNETIC SYSTEMS N64-29116 21-08

ELECTROMAGNETIC METHOD
INDUCTION AND DIPOLE ELECTROMAGNETIC METHODS FOR DETECTING COVERED, INCLINED CONDUCTING SHEETS - GEOLOGICAL SURVEY N64-11492 03-23

PROCESSING METHOD FOR MOLTEN METALS USING ELECTROMAGNETIC FORCES
FTD-TT-63-495/1 N64-16372 08-17

ELECTROMAGNETIC ACCELERATION EQUATIONS TREATING PLASMA MASS AS VARIABLE
NASA-TN-D-2184 N64-32428 23-24

ELECTROMAGNETIC METHOD OF NONDESTRUCTIVE TESTING OF DECARBURIZATION OF COMPONENTS - HARMONIC ANALYSIS
SA-TR-19-1508 N64-33719 24-17

EXPERIMENTAL ELECTROMAGNETIC METHOD FOR NONDESTRUCTIVE TESTING OF CARBURIZED STEEL PARTS
SA-TR19-1509 N64-34002 24-17

ELECTROMAGNETIC PROPAGATION
SA IONOSPHERIC PROPAGATION
GEOPHYSICAL STUDY OF ELECTROMAGNETIC PROPAGATION, EARTH MAGNETISM, AND IONIZATION BY EARTH SATELLITE
JPRS-18010 N64-11617 03-12

PROPAGATING ELECTROMAGNETIC SIGNALS AT NORMAL INCIDENCE THROUGH PLASMA SHEATH UPON HYPERSONIC BLUNT-NOSED REENTRY BODIES - COMPUTER PROGRAM
RADC-TDR-63-412 N64-12208 03-02

CHARACTER OF DIELECTRIC SCATTERER FROM REFLECTION COEFFICIENT IN ONE-DIMENSIONAL ELECTROMAGNETIC PROPAGATION
AD-422444 N64-14029 05-23

ELECTROMAGNETIC PROPAGATION ON CYLINDRICAL STRUCTURES HAVING AZIMUTHAL PERIODICITY - CURVED CORRUGATED SURFACE & PERIODIC SLOTTED CONDUCTORS
TR-84 N64-17120 09-09

CORRECTION FORMULAS FOR ELECTROMAGNETIC PROPAGATION THROUGH TROPOSPHERE AND IONOSPHERE
N64-18240 10-08

ELECTROMAGNETIC SIGNAL PRODUCED BY LOW-ALTITUDE NUCLEAR EXPLOSIONS
RM-3884-PR N64-21724 15-23

ELECTROMAGNETIC MONITORING SYSTEM FOR RECORDING ELECTROMAGNETIC SIGNALS RESULTING FROM DETONATIONS
EG&G-B-2703 N64-22528 15-08

GROUNDING SYSTEMS FOR ELECTRONIC EQUIPMENT HOUSING
N64-22816 16-09

TRANSMITTER FOR INVESTIGATING ELECTROMAGNETIC WAVE PROPAGATION IN EARTH
TR-6-60 N64-24207 16-08

INFORMATION CAPACITY AND QUANTUM EFFECTS IN ELECTROMAGNETIC WAVE PROPAGATION CIRCUITS
ESD-TDR-64-23 N64-24811 17-08

RADIATION EFFECT ON ELECTROMAGNETIC SIGNAL PROPAGATION IN AIR
R-173-2 N64-26526 18-23

MODEL STUDIES OF INFLUENCE OF IONOSPHERE PERTURBATIONS ON VERY LOW FREQUENCY PROPAGATION
AD-440475 N64-26943 18-08

PLASMA WAVE GENERATION IN SEMICONDUCTOR AND ELECTROMAGNETIC PROPAGATION IN WAVEGUIDE BY GAS DISCHARGE PLASMA
FTD-TT-64-292/1&2&4 N64-27002 19-24

ELECTROMAGNETIC WAVE PROPAGATION IN CIRCULAR WAVE GUIDE FILLED BY GAS DISCHARGE PLASMA
N64-27004 19-24

ELECTROMAGNETIC PROPAGATION IN PERIODIC MEDIUM WITH NONORTHOGONAL LATTICE STRUCTURE
AFCRL-64-437 N64-27100 19-25

SKY WAVE FIELD FROM DIPOLE ANTENNA IN ARBITRARY MIXED LAND-SEA AREA - ELECTROMAGNETIC PROPAGATION
AFCRL-64-509 N64-30896 22-08

ELECTROMAGNETIC PROPAGATION MODES IN ANISOTROPIC PLASMAGUIDES AND RESONATORS
AL-TDR-64-157 N64-30981 22-24

WAVEGUIDE MODEL FOR IONOSPHERIC PROPAGATION AND PERTURBATION
QR-7 N64-31260 22-08

NUCLEAR DETONATION EFFECT ON PROPAGATION OF ELECTROMAGNETIC WAVES COMPUTED BY FORTRAN PROGRAM
R64TMP-8-/3/ N64-32464 23-20

ELECTROMAGNETIC WAVE PROPAGATION IN IONOSPHERE - SCATTER AND IMPEDANCE
JPRS-27125 N64-33226 24-08

WAVEGUIDE MODEL OF IONOSPHERIC PERTURBATION EFFECTS ON VERY LOW FREQUENCY ELECTROMAGNETIC PROPAGATION
AD-420379 N64-33428 24-08

ELECTROMAGNETIC PROPULSION
ELECTROMAGNETIC PROPULSION SYSTEM FOR SPACE FLIGHT
DFL-232 N64-25599 17-21

ELECTROMAGNETIC RADIATION
ANNOTATED BIBLIOGRAPHY FOR NEAR-FIELD PATTERN MEASUREMENTS OF ELECTROMAGNETIC RADIATION
SR-63-38 N64-10322 01-01

ELECTROMAGNETIC RADIATION REFLECTION BASED ON CLASSICAL ELECTRODYNAMICS

RF-TR-63-4, VOL. 1 N64-12178 03-23

TABLES OF ELECTROMAGNETIC RADIATION REFLECTION COEFFICIENTS
RF-TR-63-4, VOL. 2 N64-12374 03-23

ELECTROMAGNETIC RADIATION DETECTION AND STUDY OF TRANSMISSION LINES AT MILLIMETER AND SUBMILLIMETER WAVELENGTHS
RADC-TDR-63-458 N64-12591 04-08

MEASURING INFRARED AND VISIBLE ELECTROMAGNETIC RADIATION EMANATING FROM MISSILE EXHAUST PLUMES
AFCRL-63-846 N64-13000 04-30

RADIOSONDE COMPATIBLE WITH ELECTROMAGNETIC ENVIRONMENT OF ALANTIC MISSILE RANGE
MTC-TDR-63-8 N64-14301 06-08

COSMIC & SOLAR ELECTROMAGNETIC AND CORPUSCULAR RADIATION
NASA-CR-55438 N64-14868 06-28

VERY LOW FREQUENCY ELECTROMAGNETIC RADIATION MEASUREMENTS MADE BY INJUN III SATELLITE
N64-14998 06-12

ELIMINATION OF ELECTROMAGNETIC RADIATION HAZARDS TO ELECTROEXPLOSIVE DEVICES N64-15267 07-26

SOMMERFELDS COMPLEX ORDER WAVE FUNCTIONS TO SOLVE PROBLEM OF RADIATION FROM DIELECTRIC CONE
AFCRL-63-47 N64-15810 07-23

PLANETARY SURFACE INVESTIGATION BY ELECTROMAGNETIC RADIATION REFLECTION AND EMISSION OBSERVATION TECHNIQUES N64-16260 08-29

RADIOFREQUENCY FILTER TO PROTECT ORDNANCE AGAINST HAZARD OF ELECTROMAGNETIC RADIATION INDUCED FIRING
NAVWEPS-7805, REV. 1 N64-16468 08-09

MECHANISM FOR THERMOPHOTOTROPIC BEHAVIOR IN PEROVSKITE-STRUCTURED ALKALINE EARTH TITANATES
NASA-TN-D-2258 N64-17296 09-23

EFFECT OF SURROUNDING ANISOTROPIC MATERIAL ON ELECTROMAGNETIC RADIATION
PIBMRI-1124-63 N64-18387 10-23

FOCUSING OF ELECTROMAGNETIC RADIATION BY ANISOTROPIC PLASMA HALF SPACE
PIBMRI-1202-63 N64-18603 11-24

EFFECT OF CURRENT DISTRIBUTION OF LIGHTNING DISCHARGE ON ELECTROMAGNETIC RADIATION AT LONG DISTANCE N64-19699 12-12

NATURAL ELECTROMAGNETIC RADIATION - AUDIOFREQUENCY RANGE
AFCRL-64-304 N64-20183 13-28

THERMISTOR TYPE HAZARD DETECTOR OF ELECTROMAGNETIC RADIATION FOR LITTLE JOHN MISSILE SYSTEM
RK-TR-64-9 N64-20457 13-04

BACKSCATTER OF ELECTROMAGNETIC RADIATION FROM TURBULENT PLASMA
IDA/HQ-63-2024 N64-21622 15-24

REFLECTION AND EMISSION OF ELECTROMAGNETIC RADIATION BY PLANETARY SURFACES AND CLOUDS
NASA-CR-52222 N64-22770 16-28

INFLUENCE OF WAVEGUIDE CHARGED PARTICLE MOVEMENT ON PLASMA ELECTROMAGNETIC RADIATION
AFCRL-64-279 N64-22918 16-24

APPLIED PROBLEMS IN ELECTROMAGNETIC RADIATION
AFCRL-64-374 N64-23972 16-23

COHERENCE FUNCTION AND INFORMATION THEORY FOR CONTROLLED ELECTROMAGNETIC RADIATIVE SOURCES IN ANTENNA OR OPTICAL SYSTEMS
SR-3 N64-24969 17-08

PYROELECTRIC DETECTOR OF ELECTROMAGNETIC RADIATION AT SUBMILLIMETER WAVELENGTHS
RADC-TDR-64-136 N64-25234 17-08

ELECTROMAGNETIC AND CORPUSCULAR RADIATION, METEOROID FLUX, AND PLANETARY ATMOSPHERES
NASA-CR-58136 N64-26370 18-29

ELECTROMAGNETIC ENERGY RADIATED FROM LIGHTNING
N64-27181 19-12

GEOMETRIC STUDY OF COHERENCE PROPERTIES OF PARTIALLY POLARIZED ELECTROMAGNETIC RADIATION
AFCRL-64-460 N64-27436 19-23

ELECTROSTATIC FIELD DISTRIBUTION OF CHARGED TEST PARTICLE IN A PLASMA - ELECTROMAGNETIC RADIATION SPECTRUM OF ELECTRONS ACCELERATED BY ELECTROSTATIC FIELD
ARL-64-111 N64-28020 20-24

INFORMATION ASSIMILATION FROM SYMBOLIC DISPLAYS - EFFECT OF AMOUNT OF INFORMATION PRESENTED AND EFFECT OF UPDATING
USAPRO-TR-N-139 N64-28452 20-08

REFLECTION TYPE LASER AMPLIFIER
TR-2467 N64-28526 20-25

ELECTROMAGNETIC INTERFERENCE FROM FIREBALLS - ATMOSPHERIC ELECTRICITY PHENOMENA
P-2924 N64-28800 20-12

ELECTROMAGNETIC & ELECTROACOUSTIC WAVE RADIATION IN PLASMA
AFCRL-64-473 N64-29833 21-24

LASER ELECTROMAGNETICS - GENERATION, PROPAGATION, AND DETECTION OF VERY HIGH FREQUENCY OPTICAL COHERENT RADIATION
AFCRL-64-538 N64-29835 21-25

PYROELECTRIC CURRENT SENSITIVITY OF TRIGLYCINE SULFATE IN RESPONSE TO ELECTROMAGNETIC RADIATION
NOLC-601 N64-29856 21-25

SCATTERING OF ELECTROMAGNETIC RADIATION IN TRANSVERSE MAGNETIC MODE BY PLASMA CYLINDERS WITH VARYING ELECTRON DENSITY DISTRIBUTIONS
RM-3574-ARPA N64-29919 21-24

CONVERSION OF PLASMA KINETIC ENERGY TO ELECTROMAGNETIC ENERGY - EVALUATION OF CYCLOTRON RADIATION FROM PLASMA AS ENERGY SOURCE IN RADAR SYSTEMS
RADC-TDR-64-174 N64-29966 21-24

NONLINEAR & LINEAR MICROWAVE PROPAGATION, OPTICAL SPECTROSCOPY OF LASER MATERIALS, AND NONLINEAR QUANTUM MECHANICS OF LASERS
ML-1189 N64-30190 21-24

ELECTROMAGNETIC RADIATION FROM PLASMA OSCILLATIONS AND TYPE III SOLAR RADIO BURSTS
N64-30292 22-28

EFFECT OF HIGH FREQUENCY ELECTROMAGNETIC RADIATION ON BLOOD HISTAMINE CONTENT AND CHOLINESTERASE ACTIVITY IN HUMAN BODY N64-31540 23-16

COHERENT ELECTROMAGNETIC ENERGY GENERATION AND AMPLIFICATION IN EXTREMELY HIGH FREQUENCY BAND AND ANALYSIS OF AMPLITUDE & PHASE MODULATED TRAVELING WAVE AMPLIFIERS
REPT.-05772 N64-32282 23-23

DIELECTRIC RADIATING LENS FED BY GOUBAU ELECTROMAGNETIC BEAM WAVEGUIDE
TR-80 N64-32624 23-23

CROSS-POLARIZED ELECTROMAGNETIC BACKSCATTER USING SECOND BORN APPROXIMATION
DAMP-TN-64-01 N64-33717 24-24

ELECTROMAGNETIC SCATTERING
ELECTROMAGNETIC WAVE SCATTERING AND SUPER-HIGH VACUUM FROM SEMICONDUCTORS
JPRS-17532 N64-11001 02-01

KIRCHOFF APPROXIMATION FOR ELECTROMAGNETIC WAVE SCATTERING ON UNEVEN SURFACES OF SEMICONDUCTORS
N64-11002 02-08

BACK&CATTERING FROM SIMPLIFIED IONIZED TARGET IN FORM OF EXTENDED LAMINAR PLASMA COLUMN
AD-402665 N64-11644 03-24

ALOUETTE SATELLITE DATA OF EARTH RADAR - THEORY OF ELECTROMAGNETIC SCATTER FROM ROUGH SURFACES AND SURFACE HEIGHTS
NASA-CR-52985 N64-12029 03-32

DETERMINATION OF TEMPERATURE & IONIC COMPOSITION OF IONOSPHERE & MAGNETOSPHERE BY ELECTROMAGNETIC WAVE SCATTERING
NASA-CR-55434 N64-14842 06-12

RELATION BETWEEN ELECTROMAGNETIC SCATTERING PROPERTIES OF LUNAR SURFACE & SURFACE STRUCTURES
NASA-CR-55545 N64-15186 07-08

ANALYTICAL MODEL FOR INVESTIGATING ELECTROMAGNETIC SCATTERING PROPERTIES OF HYPERSONIC WAKES
RM-3649-ARPA N64-15379 07-23

TURBULENT SCATTERING OF ELECTROMAGNETIC WAVES BY HYPERSONIC WAKE FLOWS
R63SD58 N64-15942 07-23

THEORY OF ELECTROMAGNETIC SCATTERING FROM PLASMA CYLINDERS
RM-3573-ARPA N64-16045 07-24

INCOHERENT ELECTROMAGNETIC SCATTERING FROM DRIVEN PLASMA OSCILLATIONS
MATT-230 N64-16937 09-24

REDUCTION OF ELECTROMAGNETIC BACKSCATTER FROM PLASMA SHEATHED CONDUCTING BODY - HYPERVELOCITY PROJECTILE
ESD-TDR-63-589 N64-17364 09-24

RADAR SCATTER FROM ROUGH SURFACES WITH APPLICATION TO LUNAR RADAR BACKSCATTER N64-19499 12-08

ELECTROMAGNETIC WAVE SCATTERING BY PLASMA SYSTEMS AND APPLICATION TO REENTRY BODY TRACKING PROBLEMS
RCA-DTN-62-24 N64-20351 13-08

SCATTERING OF ELECTROMAGNETIC WAVES BY IRREGULAR INTERFACES
AFOSR-64-0802 N64-21239 14-23

ELECTROMAGNETIC SCATTERING AND RADIATIVE PROPERTIES OF LUNAR-LIKE SURFACE
NASA-CR-56539 N64-24035 16-23

EFFECT OF SMALL IRREGULARITIES ON ELECTROMAGNETIC SCATTERING FROM INTERFACE OF ARBITRARY SHAPE
NYR-3503 N64-26524 18-23

FORTRAN COMPUTER PROGRAM FOR ELECTROMAGNETIC SCATTERING BEAM IN FOCUSING MEDIUM
CERN-64-29 N64-26604 18-23

PROLATE SPHEROID ELECTROMAGNETIC & ACOUSTIC SCATTERING
REPT.-3648-6-T N64-26976 19-08

ARRAYS OF PARALLEL THIN WIRES USED TO APPROXIMATE SCATTERING PATTERNS OF SOLID CURVED AND FLAT SURFACES
REPT.-1522-7 N64-28147 20-08

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SMOOTH AND TURBULENT COLUMN ELECTROMAGNETIC SCATTERING TO ESTIMATE RADAR CROSS SECTION CURVES FOR REENTRY WAKES
TR-22 N64-29446 21-08

MODIFICATION OF ELECTROMAGNETIC SCATTERING CROSS SECTIONS IN RESONANT REGION
AFCRL-64-727/I/ N64-31813 23-08

CONSTRUCTION OF ELECTROMAGNETIC ISOTOPE SEPARATOR
N64-32008 23-10

ELECTROMAGNETIC SHIELDING
PLANE ELECTROMAGNETIC WAVE SHIELDING
N64-22840 16-09

SHIELDING FLIGHT VEHICLE AGAINST ELECTROMAGNETIC INTERFERENCE DURING TEST N64-22841 16-09

ELECTROMAGNETIC SHOCK TUBE
MAGNETIC AND IONIC STRUCTURE OF GAS PRODUCED IN ELECTROMAGNETIC SHOCK TUBE
TECH. REPT.-16 N64-18315 10-24

FAST LUMINOUS FRONTS IN ELECTROMAGNETIC SHOCK TUBE AND ERROR IN PAXTON AND FOWLER THEORY
AD-437190 N64-20086 13-24

SHOCK WAVE WITHIN ELECTROMAGNETIC SHOCK TUBE
N64-28490 20-11

ELECTROMAGNETIC WAVE
ELECTROMAGNETIC WAVE SCATTERING IN TROPOSPHERE - RADIO WAVE SCATTERING FORMULAS
JPRS-21717 N64-10203 01-12

CALCULATIONS FOR REFLECTION OF ELECTROMAGNETIC WAVES FROM LOSSY MAGNETOPLASMA - IONOSPHERIC D-LAYER NONRECIPROCAL REFLECTION
NBS-TN-205 N64-10470 01-24

SCATTERING OF ELECTROMAGNETIC WAVES BY PERFECTLY REFLECTING OBJECTS OF COMPLEX SHAPE - RADAR CROSS SECTION
TR-EE63-8 N64-11537 03-09

PHASE VELOCITY OF ELECTROMAGNETIC WAVES IN VERY LOW FREQUENCY RANGE
FTD-TT-63-807/1&2 N64-11545 03-09

SCATTERING DESCRIPTION OF ELECTROMAGNETIC WAVES BY ELECTRON DENSITY PROFILE OF ELECTRON-PHONON SYSTER
MATT-201 N64-11585 03-24

ULTRAHIGH FREQUENCY ELECTROMAGNETIC WAVE EXPOSURE PROBLEM ABOARD MERCHANT SHIPS DUE TO RADAR STATION
N64-11857 03-08

EQUIPMENT FOR RECORDING ELECTROMAGNETIC BROADBAND WAVES USING LOGARITHMIC CHARACTERISTICS
N64-11876 03-15

HYDROMAGNETIC WAVE TUBE - ENERGY COUPLING, WAVE PROPAGATION, AND CROSS MODULATION BETWEEN ELECTROMAGNETIC AND HYDROMAGNETIC WAVES
AFCRL-63-779 N64-12043 03-24

GREEN FUNCTION FOR ELECTROMAGNETIC WAVES IN ANISOTROPIC MEDIUM - ANTENNA THEORY
NASA-CR-55102 N64-12396 03-08

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DASA-618 N64-12579 04-23

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AFCRL-63-398 N64-12856 04-24

INTERACTION OF GUIDED ELECTROMAGNETIC WAVES IN MAGNETOPLASMAS TO STUDY PHENOMENA FROM CYCLOTRON RESONANCE ABSORPTION OF MICROWAVE ENERGY BY GASES
AFCRL-63-737 N64-13073 04-24

PLASMA-LIKE PROPERTIES OF CHARGE CARRIERS IN SOLID-STATE MATERIALS - ELECTROMAGNETIC WAVE PROPAGATION
RADC-TDR-63-493 N64-13787 05-24

SCATTERING MATRIX TECHNIQUE FOR SOLVING SOME ELECTROMAGNETIC AND ACOUSTIC WAVE PROPAGATION BOUNDARY VALUE PROBLEMS
TR-72 N64-13966 05-20

SOLUTION FOR PROPAGATION OF PLANE HARMONIC ELECTROMAGNETIC WAVES ACROSS STRATIFIED PLASMA LAYER N64-15255 07-24

SOLUTION FOR PROPAGATION OF ELECTROMAGNETIC WAVES IN INHOMOGENEOUS THIN FILM SHEATH
N64-15256 07-24

ELECTROMAGNETIC WAVE INTERACTION WITH AND TRANSMISSION THROUGH INHOMOGENEOUS ONE-DIMENSIONAL PLASMA

NASA-RP-127 N64-15311 07-23

EFFECT ON BACK SCATTERING BY SIMPLE PLASMA CONFIGURATION OF INCIDENT ELECTROMAGNETIC WAVE PATTERNS
GASL-TR-372 N64-15749 07-24

COUPLING OF MAGNETOHYDRODYNAMIC WAVES TO ELECTROMAGNETIC & ACOUSTIC WAVES AT PLASMA-NEUTRAL GAS INTERFACE
AFCRL-63-944 N64-17450 09-24

ELECTROMAGNETIC WAVE OBLIQUE INCIDENCE ON GENERAL MAGNETOPLASMA SLAB
REPT.-116-36 N64-17457 09-24

MAPPING OF RADIATION AND DIFFRACTION OF ELECTROMAGNETIC WAVES
NASA-CR-53288 N64-17594 09-20

PROPAGATION OF ELECTROMAGNETIC WAVES IN RANDOM MEDIUM AND MULTIPLE SCATTERING
NASA-CR-53408 N64-18174 10-23

POLARIZATION COUPLING CURVES OF ANTENNAS WITH FIXED INCIDENT WAVES
EDL-M593 N64-18184 10-09

CORRECTION FORMULAS FOR ELECTROMAGNETIC PROPAGATION THROUGH TROPOSPHERE AND IONOSPHERE
N64-18240 10-08

ELECTROMAGNETIC WAVE PROPAGATION IN COLD, COLLISIONLESS ATOMIC HYDROGEN PLASMA
NASA-TN-D-2071 N64-18954 11-24

RADIATION EFFECT ON ELECTROMAGNETIC WAVE PROPAGATION IN AIR
R-173-1 N64-19188 11-15

PLASMA DIAGNOSTICS USING ELECTROMAGNETIC MICROWAVE TECHNIQUE N64-19842 12-24

ELECTROMAGNETIC WAVE PROPAGATION IN HETEROGENEOUS MEDIUM - RANDOM DISTRIBUTION
NASA-CR-53926 N64-19942 12-08

CHARACTERISTICS OF EXTREMELY LOW FREQUENCY ELECTROMAGNETIC WAVE PROPAGATION BY MEASURING CONTINUOUS WAVE SIGNALS
AFCRL-64-164 N64-20095 13-12

OBLIQUE INCIDENCE OF ELECTROMAGNETIC WAVE ON PLANE BOUNDARY BETWEEN TWO GYROTROPIC PLASMA MEDIA
AFCRL-64-45 N64-20174 13-25

FORMULATION OF HUYGENS PRINCIPLE AND INTEGRAL EQUATIONS FOR ELECTROMAGNETIC WAVES AND DIFFRACTION PROBLEMS N64-20425 13-23

SCATTERING OF ELECTROMAGNETIC WAVES BY IRREGULAR INTERFACES
AFOSR-64-0802 N64-21239 14-23

PROPAGATION OF FINITE AMPLITUDE ELECTROMAGNETIC WAVES IN GYROMAGNETIC MEDIA
ML-1020 N64-21301 14-08

ELECTROMAGNETIC WAVE PROPAGATION IN STRATIFIED INFINITE MEDIUM
PIBMRI-1184-63 N64-21451 14-08

MATHEMATICAL FORMULAS FOR GROUP VELOCITY, PATH, AND ATTENUATION OF ELECTROMAGNETIC WAVES IN IONOSPHERE
LAFE-10 N64-22011 15-12

PERTURBATION METHOD FOR DIFFRACTION PROBLEM OF ELECTROMAGNETIC WAVES BY ARBITRARILY SHAPED DIELECTRIC OBSTACLE
USCEC-82-216 N64-22385 15-23

NONLINEAR INTERACTION OF ELECTROMAGNETIC WAVE & TIME-DEPENDENT PLASMA MEDIUM
AFCRL-64-250 N64-22610 15-24

PROPAGATION OF ELECTROMAGNETIC WAVES IN RECTANGULAR GUIDES LOADED WITH MAGNETIZED FERRITE
AFCRL-64-354 N64-22685 15-09

ABSORPTION AND SCATTERING COEFFICIENTS OF PLANE ELECTROMAGNETIC WAVE IMPINGING ON SPHERICAL SHELL
N64-22839 16-09

SPECTRUM SIGNATURE MONITOR WITH FIELD INTENSITY RECEIVER FOR ELECTROMAGNETIC INTERFERENCE MEASUREMENTS N64-22845 16-09

MACROSCOPIC EQUATIONS FOR SMALL SIGNAL ELECTROMAGNETIC WAVE PROPAGATION IN ISOTROPIC PLASMA
REPT.-1565-2 N64-22902 16-24

ELECTROMAGNETIC WAVES IN PLASMAS - LANDAU ABSORPTION IN PLASMA HAVING NO MAGNETIC FIELD
NASA-TT-F-9001 N64-23053 16-24

DIFFRACTION OF HIGH FREQUENCY PLANE ELECTROMAGNETIC WAVE BY CONDUCTING CIRCULAR DISC
EM-189 N64-23337 16-23

CALCULATION OF ELECTRICAL MACHINES WITH SCREENING ELECTROMAGNETIC WAVE EFFECT N64-23573 16-09

MATHEMATICS OF FLUID FLOW, ELECTROMAGNETIC WAVE PROPAGATION, CELESTIAL MECHANICS, CONTROL THEORY, AND SYSTEM RELIABILITY ANALYSIS - BIBLIOGRAPHY
N64-24380 17-20

DIFFERENTIAL EQUATION FOR PASSAGE OF PLANE ELECTROMAGNETIC WAVES THROUGH PLANE-PARALLEL INHOMOGENEOUS PLASMA SLAB
NASA-TR-R-172 N64-24593 17-24

PLASMA INTERACTIONS WITH ELECTRON BEAMS, ELECTROMAGNETIC WAVES, AND MAGNETIC FIELDS
N64-24863 17-24

PROPAGATION OF PLANE WAVES IN LOSSY MOVING MEDIUM
N64-24919 17-08

ELECTROMAGNETIC SOUND WAVES FROM SKY
P-2894 N64-25888 18-29

RADIATION EFFECT ON ELECTROMAGNETIC SIGNAL PROPAGATION IN AIR
R-173-2 N64-26526 18-23

DIFFRACTION OF ELECTROMAGNETIC WAVES BY CIRCULAR APERTURE IN INFINITELY CONDUCTING PLANE SCREEN
EM-195 N64-26695 18-08

INTERACTION OF ELECTROMAGNETIC WAVES AND CLASSICAL PLASMAS
R-5-64-1 N64-26876 18-24

RADIATION OF LONGITUDINAL WAVES IN MEDIA WITH WEAK SPATIAL DISPERSIONS N64-27168 19-24

WIDEBAND ABSORBER FOR ELECTROMAGNETIC WAVES
TIL/T-5381 N64-27172 19-08

INTERACTION BETWEEN PLANE ELECTROMAGNETIC WAVE AND OSCILLATING DIELECTRIC MEDIUM
AFCRL-64-532 N64-27498 19-24

NONLINEAR INTERACTION PHENOMENON INVOLVING BEAM-PLASMA-ELECTROMAGNETIC WAVE COMBINATION
TR-69 N64-27958 20-24

SPIRAL ANTENNA DIRECTION FINDER TO DETERMINE AZIMUTH AND ELEVATION OF ELECTROMAGNETIC WAVEFRONT
HDL-TR-1221 N64-28796 20-15

RESONANT INTERACTION OF VERTICALLY POLARIZED PLANE ELECTROMAGNETIC WAVES WITH THIN PLASMA SLABS
NASA-TN-D-2476 N64-29452 21-24

EXPRESSION FOR CALCULATING IONOSPHERIC REFLECTION COEFFICIENT FOR WAVE HORIZONTALLY POLARIZED BEFORE AND AFTER REFLECTION
NEL-1221 N64-29859 21-08

ELECTROMAGNETIC WAVE MATCHING AND ABSORBING MATERIALS
ASR-4 N64-29952 21-25

MODE COUPLING IN BOUNDED COLD BEAM PLASMA

SYSTEMS - GUIDED WAVE PROPAGATION AND ELECTRON BEAM INTERACTION
RADC-TDR-64-189 N64-30119 21-24

INTERACTION OF ELECTROMAGNETIC WAVES WITH CLASSICAL PLASMA
R-4-64-2 N64-30158 21-24

RADIO ELECTRONICS - TRAVELING WAVE TUBES, RADIO WAVES, EXCITATION OF SURFACE ELECTROMAGNETIC WAVES, FERRITE PHASE SHIFTERS FOR CENTIMETER BAND, AND PARAMETRIC AMPLIFIERS
JPRS-26492 N64-31351 23-09

EXCITATION OF SURFACE ELECTROMAGNETIC WAVES BY DISCRETELY DISTRIBUTED NONPROJECTING SOURCE
N64-31357 23-09

ELECTROMAGNETIC WAVE PROPAGATION IN DYNAMIC SITUATIONS
AD-403887 N64-32142 23-08

INTERACTION OF ELECTROMAGNETIC WAVES AND CLASSICAL PLASMAS - DISTRIBUTION FUNCTION THEORY AND BOLTZMANN EQUATION
R-7-64-1 N64-32159 23-24

DIURNAL VARIATIONS IN HORIZONTAL AND VERTICAL DISTRIBUTION OF ATMOSPHERIC DENSITY FOR ALTITUDES UP TO 90 KM
NR-384-903 N64-32180 23-23

RADIATION EFFECTS ON ELECTROMAGNETIC SIGNAL PROPAGATION IN AIR
R-146-8 N64-32292 23-24

TIME SPECTRUM OF LOGARITHMIC-AMPLITUDE FLUCTUATIONS OF ELECTROMAGNETIC WAVE PROPAGATING THROUGH TURBULENT ATMOSPHERE
TR-1241 N64-32445 23-08

NUCLEAR DETONATION EFFECT ON PROPAGATION OF ELECTROMAGNETIC WAVES COMPUTED BY FORTRAN PROGRAM
R64TMP-8-/3/ N64-32464 23-20

ELECTROMAGNETIC WAVE REFLECTION FROM OSCILLATING, COLLISION-FREE MAGNETOIONIC MEDIUM
AFCRL-64-610 N64-32476 23-08

ELECTROMAGNETIC WAVE INTERACTION WITH PLASMA FOR CROSSED-BEAM, CROSS MODULATION MICROWAVE PLASMA DIAGNOSTICS
R-8-63-4 N64-32586 23-24

APPARATUS FOR SIGNAL RECEPTION AT DISTANT ANTENNAS TO DETERMINE ARRIVAL DIRECTION OF ELECTROMAGNETIC WAVES N64-32900 24-09

DIFFRACTION OF OBLIQUE ELECTROMAGNETIC SURFACE WAVE BY RIGHT ANGLE BEND
EM-190 N64-33307 24-08

INVARIANT METHOD SOLUTION TO PROBLEM OF ELECTROMAGNETIC WAVE PROPAGATION IN UNIFORM GYROTROPIC MEDIA
NASA-TT-F-8971 N64-33379 24-23

ELECTROMAGNETIC WAVE SCATTERING BY TURBULENCE OF WAKE FROM REENTRY VEHICLE & BY BODY MOVING IN IONOSHERE OR PLASMA
R-111 N64-33493 24-24

ELECTROMAGNETIC WAVE BACKSCATTERING RADAR CROSS SECTION OF FINITE CONE
TR-EE64-14 N64-33534 24-08

ELECTROMAGNETIC WAVE PROPAGATION IN INHOMOGENEOUS MEDIUM
IA-115 N64-33931 24-11

ELECTROMAGNETISM
CF ANTENNA COUPLER
CF ELECTRIC FIELD
CF MAGNETIC FIELD
ELECTROMAGNETIC RELAY SWITCHING CIRCUIT FOR MULTIPOINT REGULATION - ROTENTIOMETER
FTD-TT-63-431/1&2 N64-11163 02-06

APPROXIMATION OF EXTERNAL CONDITIONS OF ELECTROMAGNETISM BY MEASURING TANGENTIAL COMPONENTS OF ELECTRIC FIELD
E-T-I-63-1 N64-11937 03-23

ANOMALOUS SOUNDS AND ELECTROMAGNETIC EFFECTS ASSOCIATED WITH FIREBALL ENTRY - METEOR ASTRONOMY
RM-3724-ARPA N64-12681 04-09

ELECTROMAGNETIC SCATTERING AND ANTENNAS
AFCRL-63-189 N64-13858 05-09

ELECTROMAGNETIC VIOLATION OF CONSERVATION OF VECTOR CURRENT
URPA-16 N64-13904 05-23

MICROWAVE RESEARCH - ELECTROMAGNETICS, PLASMA ELECTROPHYSICS & ELECTRONICS, SOLID STATE & MATERIALS RESEARCH, MICROWAVE CIRCUITS & SYSTEMS
R-452.24-63 N64-14826 06-23

REENTRY AEROPHYSICS, PENETRATION, GUIDANCE AND CONTROL, RECOVERY SYSTEMS AND SPACE ELECTROMAGNETICS
AD-427701 N64-15251 07-01

MEASUREMENT OF METAL TEMPERATURE BY ELECTROMAGNETIC INDUCTION
HW-79621 N64-15834 07-15

SPINOR FORMULATION OF ELECTROMAGNETIC THEORY IN GENERAL RELATIVITY
AFCRL-64-8 N64-16037 07-23

EXTENSION OF USEFUL RANGE OF ELECTROMAGNETIC SPECTRUM
QPR-4 N64-16983 09-23

SPACE COMMUNICATION - ELECTROMAGNETISM, INFORMATION THEORY, MAGNETOSPHERE, & PLASMA WAVES
NASA-CR-53170 N64-17194 09-08

ELECTROMAGNETISM AND ANTENNAS FOR SPACE COMMUNICATIONS N64-17195 09-23

EDDY CURRENT - BROADBAND ELECTROMAGNETIC TESTING METHOD FOR EXTRACTION AND SEPARATION OF MULTIPLE PARAMETERS
HW-79553 N64-17269 09-09

ELECTROMAGNETIC RESONANCE IN SMITH-PURCELL EFFECT OF LIGHT RADIATION
PIBMRI-1198-63 N64-17308 09-23

THERMIONIC CONVERTER FOR STEADY STATE ELECTROMAGNETIC COAXIAL PLASMA ACCELERATOR
LAMS-3041 N64-19304 12-24

SOLAR SYSTEM FORMATION FROM INTERACTION BETWEEN GRAVITATIONAL & ELECTROMAGNETIC FORCES
N64-19331 12-05

MOLECULAR STORAGE AND TRANSFER OF ELECTROMAGNETIC ENERGY IN GASEOUS PLASMAS - ATOM RECOMBINATION
RADC-TDR-63-275 N64-20025 13-24

APPLICATION OF PULSED ELECTROMAGNETIC TEST SYSTEM TO INSPECTION OF THIN WALL TUBING
ANL-6728 N64-21608 15-17

ELECTROMAGNETIC COUPLING BETWEEN SINGLE-WIRE, TWO-WIRE, COAXIAL, AND SHIELDED TWISTED-PAIR CABLES N64-22817 16-09

ELECTROMAGNETIC PROPULSION SYSTEM FOR SPACE FLIGHT
DFL-232 N64-25599 17-23

ELECTROMAGNETIC INDUCTION ON EXPANDING CONDUCTING SPHERE
TR-421 N64-26940 18-11

ELECTROMAGNETIC THEORY - DIFFRACTION, WAVE GUIDES, RADIATION AND COMMUNICATIONS
AFCRL-64-384 N64-27647 19-08

EFFECT OF VEHICLE MANEUVERS ON READINGS OF GYROCOMPASS WITH ELECTROMAGNETIC CORRECTION
N64-29143 21-15

RANGE EXTENSION OF ELECTROMAGNETIC SPECTRUM BY CONTINUOUS OSCILLATION FREQUENCY OF OPTICALLY PUMPED MASER
CU-6-64-SC-90789 N64-30590 22-25

ELECTROMAGNETIC THEORY - PRINCIPLE OF LIMITING ABSORPTION
EM-191 N64-31261 22-23

GLOTRAC TYPE G TRANSPONDER - ELECTROMAGNETIC INTERFERENCE, FILTER REDESIGN, POWER SUPPLY, AND RECEIVED SIGNAL STRENGTH CIRCUIT
GD/A-63-1195/C/, VOL. II N64-31984 23-08

HIGHLY RAREFIED IONIZED GAS FLOW THROUGH CHANNELS WITH TRANSVERSE MAGNETIC FIELDS - MONTE CARLO SOLUTION
NASA-TN-D-2211 N64-32839 24-11

MICROWAVE RESEARCH IN ELECTROMAGNETICS, PLASMA ELECTROPHYSICS & ELECTRONICS, SOLID STATE & MATERIALS, MICROWAVE CIRCUITS, NETWORK THEORY, AND SYSTEMS, COMMUNICATIONS, & CONTROL
R-452.25-64 N64-33415 24-09

ELECTROMECHANICAL DEVICE
SOVIET PATENTS FOR ELECTRIC, ELECTRONIC, AND ELECTROMECHANICAL EQUIPMENT
JPRS-21953 N64-10851 02-09

HYDRAULIC ACTUATORS AND AMPLIFIERS WITH & WITHOUT FEEDBACK, AND ELECTROMECHANICAL TRANSDUCERS
FTD-TT-62-1226/1&2 N64-11150 02-11

RELIABILITY OF MECHANICAL AND ELECTROMECHANICAL COMPONENTS FOR IMPROVED DESIGN OF CIRCUITS
APJ-309-1 N64-11458 03-17

DESIGN DATA FOR CONSTRUCTION OF ELECTROMECHANICAL SYSTEM WITH TWO DEGREES OF FREEDOM FOR SOLAR PADDLE ORIENTATION
NASA-TM-X-54604 N64-16032 07-06

DIRECTIONAL MICROPHONE WITH TWO ACOUSTIC TERMINALS AND ELECTROMECHANICAL TRANSDUCER - ANALYSIS AND APPLICATION N64-20615 13-15

ELECTROMECHANICAL STEPPER FOR REMOTE CONTROL OF ELECTROMECHANICAL DEVICES
AD-431978 N64-21343 14-09

ELECTRONIC APPARATUS, RECORDING INSTRUMENTS & ELECTROMECHANICAL DEVICES
JPRS-24515 N64-24506 17-09

FREQUENCY VALUES & DEGREE OF DAMPING OF OSCILLATORS OF ELECTROMECHANICAL OSCILLOGRAPH
N64-24526 17-09

ELECTROMECHANICAL GENERATION OF PULSED POWER
PIBMRI-1138-63 N64-25229 17-08

RELIABILITY PREDICTION FOR MECHANICAL AND ELECTROMECHANICAL PARTS
RADC-TDR-64-50 N64-25231 17-77

HIGH ENERGY PULSE GENERATION BY ELECTROMECHANICAL POWER CONVERSION N64-27119 19-06

ELECTROMECHANICAL ORBITAL COMPUTER CAPABLE OF PERFORMING MATHEMATICAL OPERATIONS REQUIRED TO POINT TO ORBITING BODY - ANALOG ORBIT COMPUTER
ESD-TDR-64-49 N64-27522 19-20

ELECTROMECHANICAL TRANSDUCERS AS LINEAR TWO-PORT DEVICES
REPT.-1 N64-29393 21-15

ELECTROMECHANICAL ANALOG COMPUTER FOR COMPUTING CHANGES IN REACTIVITY IN HIGH-POWER-DENSITY THERMAL REACTOR
ORNL-3685 N64-29396 21-20

ROCKET THRUST STAND SIMULATION OF SPACE VEHICLE FLIGHT DYNAMICS BY ELECTROMECHANICAL SYSTEM
AEDC-TDR-64-163 N64-29442 21-10

ELECTROMECHANICAL TRANSDUCER SYSTEMS FOR TRANSIENT PRESSURE MEASUREMENTS
WAPD-TM-343 N64-30127 21-15

DEVELOPMENT AND FABRICATION OF ELECTROMECHANICAL STEPPER
AD-602817 N64-30747 22-09

ELECTROMETER
SA GALVANOMETER
DIAGRAM AND ANALYSIS OF CIRCUIT TO COMPENSATE AUTOMATICALLY FOR NULL DRIFT IN ELECTROMETER AMPLIFIERS
FTD-MT-63-47/1&2 N64-18754 11-09

USE OF FIELD EFFECT TRANSISTORS IN ELECTROMETERS FOR VERY LOW CURRENT MEASUREMENT
NASA-RP-281 N64-27357 19-09

VIBRATING MEMBRANE ELECTROMETER WITH HIGH CONVERSION GAIN
NASA-RP-289 N64-28352 20-15

PHOTOELECTROMETER FOR MEASUREMENT OF SMALL VOLTAGES N64-29131 21-15

METHODS FOR ENLARGEMENT OF DEFLECTION ANGLE AND LINEARIZATION OF SCALE OF ELECTROMETER
N64-31854 23-15

ELECTROMOTIVE FORCE
EQUATIONS AND TABLES OF ELECTROMOTIVE FORCE VERSUS TEMPERATURE FOR THERMOCOUPLE REFERENCE JUNCTION
AEDC-TDR-64-55 N64-17456 09-15

EMF OF THERMOCOUPLES COMPRESSED BY SHOCK WAVE
FTD-TT-63-1057/1&2 N64-23314 16-11

ANALYTICAL SOLUTION OF MAGNETIC FIELD IN GAP OF INDUCTOR GENERATOR CONSIDERING ELECTROMOTIVE FORCE N64-23570 16-09

ELECTROMOTIVE FORCE IN EXPLODING CONDUCTOR DUE TO SUDDEN FAST TEMPERATURE INCREASE
AD-602913 N64-30142 21-13

ELECTROMYOGRAM
ELECTROMYOGRAPHY OF HUMAN MUSCLE TONE IN NORMAL & PATHOLOGICAL STATES
JPRS-22782 N64-13376 04-16

NUCLEIC ACIDS AND CHLOROPHYLL BIOSYNTHESIS AND ELECTROMYOGRAMS UNDER ACCELERATION STRESSES
FTD-TT-63-1052/1&2 N64-23659 16-16

ELECTROMYOGRAM MEASUREMENT OF BIOELECTRIC CURRENT AS MEASURE OF HUMAN MUSCLE TONUS AND EFFECTS OF WEIGHTLESSNESS AND INCREASED ACCELERATION STRESS
N64-23661 16-16

ELECTRON
SA ELECTRON GUN
SA HIGH ENERGY ELECTRON
CF CHARGED PARTICLE
CF ELEMENTARY PARTICLE
QUALIFYING OF MODIFICATION OF PLASMA DISPERSION EXPRESSION AND EXTENSION OF DAMPING OF QUANTIZED LONGITUDINAL ELECTRON OSCILLATIONS IN PLASMA TYPE
NASA-RP-84 N64-11116 02-24

EXACT EXPANSION OF ELECTRONIC ENERGY OF ONE-ELECTRON DIATOMIC MOLECULES IN POWERS OF INTERNUCLEAR SEPARATION
NASA-CR-52609 N64-11118 02-23

ELECTRON MICROPROBE ANALYSIS OF RARE MINERALS IN NORTON COUNTY, KANSAS ACHONDRITE
N64-11195 02-12

EFFECT OF BETATRON OSCILLATIONS ON THE LONGITUDINAL STABILITY OF A COASTING BEAM
UCRL-6794 N64-11579 03-23

NONRELATIVISTIC ELECTRONS IN MAGNETIC FIELD AND APPLICATION TO SOLAR PHYSICS
E-T-CH-63-3 N64-12198 03-28

HIGH ENERGY ELECTRON-PHOTON CASCADE SHOWER CALCULATIONS BY IBM 7090 - MONTE CARLO METHOD
N64-12532 04-23

FOKKER-PLANCK COERFICIENTS FOR TEST PARTICLE DISTRIBUTION IN ELECTRON PLASMA
NASA-CR-55147 N64-13056 04-24

ELECTRON PRECIPITATION MEASUREMENT BY GEIGER COUNTER TUBE ON INJUN III SATELLITE
NASA-CR-55173 N64-13059 04-28

MASS SPECTROMETER TO MEASURE PROCESSES OCCURRING WHEN ELECTRONS & IONS COLLIDE
E-T-R-63-7 N64-13259 04-23

LOW ENERGY ELECTRON DIFFRACTION APPARATUS FOR STUDYING SURFACE & STRUCTURE OF SINGLE CRYSTAL METALS & SEMICONDUCTORS
ARL-63-197 N64-13636 05-25

METHODS FOR REMOVING FREE ELECTRONS FROM IONIZED & DISSOCIATED ATMOSPHERE
NRA-213-400 N64-13658 04-05

ELECTRON DIFFRACTION AND X-RAY PHOTOGRAPHY OF OXIDE FILM ON NIOBIUM AFTER CONTROL OXIDATION
N64-13732 05-23

DISTRIBUTION & NUMBER OF EXCESS ENERGY ELECTRONS AS FUNCTIONS OF DISCHARGE PARAMETERS
CPD-71 N64-14059 05-24

ELECTRON CAPTURE RATES IN STELLAR INTERIORS
NASA-CR-55319 N64-14278 06-23

SYNCHRONOUS PARTICLE INJECTION AND STORAGE RING CAUSING RESONANCE IN RADIAL OSCILLATIONS OF BETATRON
LNF-63/74 N64-14450 06-23

CYCLOTRON WAVE INTERACTIONS WITH ELECTRON STREAMS AND PLASMAS WITH FINITE CROSS SECTION IN FINITE MAGNETIC FIELD
REPT.-63-14 N64-14775 06-24

NONLINEAR MOTION OF ELECTRON OSCILLATION WITH RADIAL VIBRATION AND EFFECT ON ION DISTRIBUTION IN VICINITY OF ANTENNA
NASA-CR-55334 N64-14900 06-08

PRECIPITATION OF ELECTRONS INTO ATMOSPHERE - INJUN III SATELLITE DATA N64-15304 07-12

NEUTRINO EXPERIMENTS - VECTOR BOSONS, MUON & ELECTRON CONVERSION, AND NEUTRAL CURRENTS
N64-15502 07-23

PREDICTING BEHAVIOR OF PULSE RESPONSE OF MICROWAVE AMPLIFIER TUBES N64-16137 08-09

CAPTURE EFFECT STUDY USING EFFECTS OF TWO MODULATING FREQUENCIES ON DRIFTING ELECTRON BEAM
N64-16138 08-09

UPPER ATMOSPHERE INVESTIGATION AND ELECTRON CALCULATIONS IN QUANTUM MECHANICS
AFCRL-64-216 N64-17002 09-23

PERTURBATION THEORY IN STUDY OF TWO ELECTRON SYSTEM EXCITED STATES - QUANTUM MECHANICS
N64-17010 09-23

WAVE FUNCTION CALCULATION OF ENERGY STATES OF THREE ELECTRON SYSTEMS FOR ISOTOPE SHIFT, DIPOLE POLARIZABILITY, AND HYPERFINE SPLITTING STUDIES
N64-17011 09-23

ELECTRON DIFFRACTION STUDY OF PHASE CHANGES IN THIN METAL AND OXIDE FILMS N64-17064 09-25

FIRST ORDER DENSITY MATRIX FOR SPIN-PROJECTED SINGLE DETERMINANT - ELECTRON ORBIT
TECH. NOTE-104 N64-17847 10-20

CALCULATION OF ABSORPTION RATE OF ELECTRONS IN ATOMIC OUTER ENERGY LEVELS
JPRS-24099 N64-17977 10-16

ELECTRON POTENTIAL RETARDATION PHOTOEMITTED BY NITROGEN, OXYGEN, AND CARBON MONOXIDE
D1-82-0315 N64-18004 10-23

TIME-OF-FLIGHT STUDIES OF ELECTRONS IN VACUUM
ORNL-3484 N64-18055 10-23

ELECTRON SPIN PROPERTIES OF PAIR-CORRELATED ATOMIC AND MOLECULAR SINGLET WAVE FUNCTIONS USING HARTREE-FOCK CALCULATION
NASA-CR-53565 N64-18426 10-23

HOT ELECTRON EMITTERS - VAPOR DEPOSITION OF CADMIUM SULFIDE & PHOTOELECTRIC MEASUREMENT OF HOT ELECTRON RANGE IN GOLD
AFCRL-64-134 N64-18604 11-25

ELECTRONIC POLARIZABILITY CHANGES OF EXCITED ELECTRONS IN PHOTOSYNTHETIC AND MODEL SYSTEMS
N64-19465 12-16

BALLOON OBSERVATIONS OF STRUCTURE OF AURORAL ZONE ELECTRON PRECIPITAION EVENTS
AFOSR-424 N64-19797 12-28

MEASUREMENT OF EARTH ALBEDO, RADIATION BELT ENERGY DISTRIBUTIONS, ELECTRON PRECIPITATION, AND INFRARED RADIATION - SPACE PHYSICS PROGRAM
TDR-169/3260-01/TN-2 N64-19998 12-12

MAGNETIC BREAKDOWN OF BAND STRUCTURE OF ELECTRON IN SIMPLE CRYSTAL N64-20413 13-25

NONADIABATIC THEORY OF INELASTIC SCATTERING OF ELECTRONS FROM ATOMIC HYDROGEN
NASA-TM-X-51667 N64-20594 13-23

INFLUENCE OF PROBE POTENTIAL ON ELECTRON ENERGY DISTRIBUTION IN PLASMA
WRE-TN-CPD-83 N64-20633 13-24

RIOMETER MEASUREMENTS WITH REGARD TO ABSORPTION CROSS-SECTION OF ELECTRONS IN UPPER ATMOSPHERE
N64-20772 14-12

ELECTRON PROBE METHOD FOR DETERMINING IMPURITY DISTRIBUTION IN SILICON SWITCHING DIODES
N64-20982 14-15

PROPOSED STUDY OF COLLISION PROCESSES LEADING TO ELECTRONIC EXCITATION AND IONIZATION BEHIND SHOCK WAVES
NOLTR-63-33 N64-21089 14-23

ROTATIONAL EXCITATION OF MOLECULAR IONS BY ELECTRONS
R64SD31 N64-21149 14-23

SECULAR AND NONSECULAR PERTURBATIONS FOR NONLINEAR COLD ELECTRON PLASMA EQUATIONS
NASA-TN-D-2305 N64-21269 14-24

CALIBRATION OF PROTOTYPE EXPLORER IV SATELLITE USING GAMMA RAYS, X-RAYS AND ELECTRONS OVER AZIMUTHAL AND INCLINATION ANGLES
WT-1671 N64-21490 14-32

ELECTRON AND HOLE INJECTION BY METAL PROBES INTO DEPLETION REGION OF SEMICONDUCTOR DIODE
N64-21769 15-25

FUNDAMENTAL ASPECTS OF WEAK INTERACTIONS
BNL-837/C-39/ N64-21903 15-23

PENETRATION OF PLASMA FROM SOURCE WITH ELECTRON OSCILLATIONS TO EVACUATED REGION WITH MAGNETIC FIELD
FTD-TT-64-400/1&2&4 N64-21979 15-24

IONIZED GAS AND FAST ELECTRONS NEAR EARTH AND IN INTERPLANETARY SPACE
FTD-TT-63-69/1&2 N64-22340 15-28

EVAPORATION CHARACTERISTICS FOR CADMIUM SELENIDE - HOT ELECTRON EMITTER
AFCRL-64-390 N64-22686 15-25

VARIATIONS IN ALTITUDES OF MAXIMUM ELECTRON CONCENTRATION OF F- 2 LAYER
NASA-TT-F-9019 N64-22945 16-12

ION AND ELECTRON DRIFT VELOCITIES IN CESIUM
AROD-3588-2 N64-23135 16-09

ELECTRON SPECTRA IN RADIATION BELT IN FALL 1962
UCRL-7659 N64-23265 16-28

ENTRAPMENT AND LOSS OF ELECTRONS DURING PASSING OF FAST ATOMS IN MOLECULAR GAS
FTD-TT-63-1055/1&2 N64-23313 16-23

FLUXES AND ENERGY DISTRIBUTIONS OF ELECTRONS INJECTED BY HIGH-ALTITUDE NUCLEAR EXPLOSIONS - STAR FISH PROJECT
TDR-269/4260-20/-2 N64-23982 16-12

REMOVAL OF ELECTRON-ELECTRON POLES FROM HAMILTONIAN OF MANY-ELECTRON PROBLEM
NASA-CR-56560 N64-23995 16-23

PITCH-ANGLE DISTRIBUTION OF PHOTOELECTRONS AND ORIGIN OF GEOMAGNETIC ANOMALY IN F- 2 LAYER
NASA-RP-213 N64-24065 16-12

ATMOSPHERIC SCATTERING OF GEOMAGNETICALLY TRAPPED ELECTRONS FROM STARFISH HIGH ALTITUDE NUCLEAR EXPLOSION N64-24239 17-12

ELECTRON WORK FUNCTION OF METAL INMERSED IN GAS FOR CESIUM THERMIONIC DIODE APPLICATION
NASA-TN-D-2357 N64-24817 17-09

DIFFUSION EXPERIMENT TO DETERMINE CROSS SECTION FOR ELECTRON-GAS COLLISIONS
AROD-3331-5 N64-25093 17-23

PYROELECTRIC DETECTOR OF ELECTROMAGNETIC RADIATION AT SUBMILLIMETER WAVELENGTHS
RADC-TDR-64-136 N64-25234 17-08

PHOTOIONIZATION, ELECTRON-TRAPPING, AND PHOTOCONDUCTION IN GLASSES
AFCRL-64-298 N64-25374 17-25

POTENTIAL ENERGY CURVES FOR ELECTRONIC STATES OF DIATOMIC MOLECULES
AD-438051 N64-25641 17-23

VACUUM PROBLEM OF ELECTRON STORAGE RINGS
LNF-64/19 N64-25665 17-23

COLLECTION OF HOT ELECTRONS AT INTERNAL POTENTIAL BARRIER - THIN FILM ACTIVE DEVICE
A046-F N64-25751 17-23

VERIFICATION OF HOT PLASMA THEORY FOR MICROWAVE PROPAGATION AT SECOND HARMONIC ELECTRON CYCLOTRON RESONANCE
MATT-265 N64-26540 18-24

TRANSITION SPECTRUM OF CORONAL ISOELECTRON SEQUENCE CONFIGURATION IN EXCITED STATE
NASA-TT-F-8937 N64-26789 18-05

MAGNETOIONIC THEORY FOR MASS-ANISOTROPIC ELECTRONS
RR-47 N64-26908 18-25

PROBE CHARACTERISTICS OF ELECTRON AND ION CURRENTS AND ENERGY DISTRIBUTION OF NICKEL ATOMS DURING CATHODE SPUTTERING OF NICKEL BY MERCURY IONS
FTD-TT-64-380/1&2&4 N64-26995 19-23

GENERATION OF PLASMA WAVES BY ELECTRON FLOW IN SEMICONDUCTOR N64-27003 19-24

ELECTRON X-RAY SPECTRA OF SUPERCONDUCTORS N64-27177 19-25

CALCULATION OF ELECTRON DIFFRACTION PATTERNS FROM TWINNED REGIONS OF CUBIC CRYSTALS
ARPA-E7 N64-27685 19-18

PLASMA PROBE FOR MARINER A SPACECRAFT, TO DETERMINE DENSITY, ENERGY SPECTRA, AND DIRECTION OF MOTION OF PROTONS AND ELECTRONS IN PLASMA
NASA-CR-56794 N64-27821 19-32

TOTAL ELECTRON CONTENT OF IONOSPHERE DERIVED FROM SATELLITE DOPPLER MEASUREMENTS
NASA-CR-56935 N64-27881 20-12

EFFECT OF ZINC IMPURITIES ON PHOTOELECTRONIC CHARACTERISTICS OF SINTERED CADMIUM SELENIDE LAYERS
MTER-8 N64-28197 20-25

POSITRON-ELECTRON RATIO OF PRECIPITATING ELECTRONS N64-28857 20-28

STARK BROADENING PARAMETERS FOR NONHYDROGENIC LINES OF NEUTRAL AND SINGLY IONIZED ATOMS
NRL-6084 N64-28874 20-24

DATA FROM ALOUETTE AND INJUN III SATELLITES - AVERAGE PRECIPITATION RATE OF ELECTRONS IN AURORAL ZONE AS FUNCTION OF ENERGY
NASA-TM-X-55057 N64-28898 20-12

EFFECT OF MAGNETIC FIELD ON ELECTRON STREAMS IN CESIUM VAPOR FILLED DIODE
FTD-TT-63-351/1&2 N64-29015 20-24

DETECTION OF UPPER ATMOSPHERIC ELECTRONS WITH ENERGIES FROM 40 EV TO 5 KEV USING FLUORESCENT SCREEN INDICATOR ON COSMOS V SATELLITE N64-29083 21-12

ELECTRON LOSS RATE FROM OUTER RADIATION BELT USING FLUX MEASUREMENTS ON DISCOVERER SATELLITES
NASA-RP-307 N64-29340 21-28

LARGE DIURNAL VARIATIONS IN ELECTRON INTENSITIES OF GEOMAGNETICALLY TRAPPED AND PRECIPITATED ELECTRONS OBSERVED IN DATA FROM LOW ALTITUDE INJUN III SATELLITE N64-29386 21-12

MICROELECTRONIC SYSTEMS - TRAINABLE SELF-ADAPTIVE SYSTEMS, DEVICES, SEMICONDUCTOR FABRICATION, AND HOT ELECTRONS IN METAL FILMS
SU-SEL-64-037 N64-29748 21-09

ELECTRON PROBE ANALYSIS OF BETA-TITANIUM-VANADIUM, BETA-TITANIUM-NIOBIUM, AND CHROMIUM-VANADIUM DIFFUSION SYSTEMS
NRL-6141 N64-29962 21-18

FLUORINE ATOM NUCLEAR-MAGNETIC-RESONANCE SHIELDING PARAMETERS OF FLUOROBENZONITRILE DONOR-ACCEPTOR COMPLEXES - QUANTITATIVE MEASURE OF ELECTRON ACCEPTOR STRENGTHS
TR-1 N64-30032 21-07

EQUIPMENT FOR PHOTOELECTRON DETERMINATION OF BINDING ENERGIES IN ATOMS
AD-603170 N64-30198 21-10

RELATION BETWEEN ELECTRONS AND HOLES IN ATOMIC CONFIGURATIONS N64-30319 22-23

DETERMINATION OF ELECTRON DENSITY AND ELECTRON COLLISION FREQUENCY IN PULSED GAS DISCHARGE PLASMA N64-30357 22-24

ELECTRON INTENSITY NEAR SUNWARD MAGNETOSPHERE BOUNDARY AND WITHIN BOUNDARY LAYER TRANSITION OBSERVED BY EXPLORER XIV SATELLITE
NASA-CR-58787 N64-30505 22-28

THERMODYNAMIC EQUILIBRIUM OF CRYSTAL SURFACES - LOW ENERGY ELECTRON DIFFRACTION TECHNIQUES AND FIELD ION EMISSION MICROSCOPY
AD-602105 N64-30770 22-25

COMPENSATION OF ION BEAM SPACE CHARGE BY ELECTRONS IN HIGH VACUUM MAGNETIC FIELD
NASA-TT-F-8963 N64-30856 22-24

OPTICAL SCATTERING TECHNIQUE FOR PLASMA DIAGNOSTICS
AFOSR-64-1143 N64-30897 22-24

WAVE PROPAGATION ALONG ANNULAR ELECTRON CURRENT PLASMA SHEATH
TN-2 N64-30977 22-09

CADMIUM SELENIDE FILM AS EMITTER OF HOT ELECTRONS AND ATTENUATION OF HOT ELECTRONS IN GOLD
AFCRL-64-673 N64-31043 22-25

INELASTIC ELECTRON-PROTON, POSITRON-PROTON, AND MUON-PROTON SCATTERING

SLAC-25, PT. 2 N64-31058 22-23

LOCAL DEPLETION OF IONOSPHERIC ELECTRON DENSITY BY FIREFLY PROJECT CHEMICAL CLOUDS WITH HIGH FREE ELECTRON ATTACHMENT COEFFICIENTS N64-31387 23-12

PHOSPHOR EVALUATION, GUN DESIGN, AND ELECTRON OPTICS OF MINIATURE FIBER OPTIC CATHODE RAY TUBES QPR-1 N64-31701 23-09

CORRELATION OF EXTREME ULTRAVIOLET RADIATION WITH ACTIVE REGIONS ON SOLAR DISK BASED ON ELECTRON TEMPERATURE AND DENSITY CHANGES NASA-RP-345 N64-31721 23-28

ATMOSPHERICS IN THUNDERSTORM ACTIVITY AND LIGHTNING DISCHARGE DETECTORS FTD-MT-64-124 N64-31758 23-21

DIFFERENTIAL AND INTEGRAL ENERGY SPECTRA OF ELECTRONS AND PROTONS IN MAGNETOSPHERE DETERMINED BY CORPUSCULAR RADIATION INSTRUMENTATION IN P-11 SUB-SATELLITE N64-31844 23-28

INTERACTIONS OF HIGH ENERGY PHOTONS AND ELECTRONS WITH MATTER IN GAS-PHASE AND MASS CHARGE SPECTRA MEASUREMENTS PRODUCED BY X-RAY & HIGH ENERGY ELECTRON IONIZATION ML-TDR-64-169 N64-31893 23-07

REACTION BETWEEN ELECTRONS AND POSITRONS IN STORAGE RING LNF-64/33 N64-32003 23-23

ENERGY LEVELS OF HEAVY ACTINIDES ANL-6911 N64-32093 23-07

FREE ELECTRON THEORY OF SPECIFIC HEATS OF DILUTE ALLOYS AND APPLICATION TO COPPER AND ALUMINUM BASED ALLOYS FTR-5 N64-32134 23-25

SPARK CHAMBER AND DEFLECTION MAGNET TO PHOTOGRAPH TRACKS OF COSMIC RAY ELECTRONS AT BALLOON ALTITUDES N64-32224 23-15

RUNAWAY ELECTRONS IN IDEAL LORENTZ PLASMA WHERE ELECTRONS EXPERIENCE COULOMB COLLISIONS WITH INFINITELY MASSIVE IONS ONLY MATT-226 N64-32395 23-24

ELECTRON MICROPROBE METHOD TO DETERMINE GALLIUM IN DELTA-STABILIZED PLUTONIUM LA-3125 N64-33065 24-07

CALCULATION OF ELECTRONIC DIFFRACTION PATTERNS CONTAINING TWIN REFLECTIONS OR-6112 N64-33418 24-25

NEW COLLECTIVE RESONANCE IN FREE-ELECTRON META - POTASSIUM N64-33454 24-25

NONLINEAR PROPERTIES OF ELECTRON-HOLE PLASMAS SUSTAINING HELICAL INSTABILITY DI-82-0339 N64-33598 24-25

ELECTRON ACCELERATOR
CF PARTICLE ACCELERATOR
LINEAR ELECTRON ACCELERATOR STUDIES
SLAC-25 /PT. 1/ N64-15777 07-23

TWO-MILE-LONG LINEAR ELECTRON ACCELERATOR
SLAC-27 N64-21386 14-10

TRANSVERSE SHIELDING FOR ELECTRON ACCELERATOR
ORNL-3412 N64-22256 15-23

ELECTRON ATTACHMENT
COEFFICIENTS FOR ELECTRON ATTACHMENT, ELECTRON-MOLECULE COLLISIONS, AND ION-ION AND ELECTRON-ION RECOMBINATION IN ATMOSPHERIC GASES AND IMPURITIES
RTD-TDR-63-3076 N64-20112 13-24

LOCAL DEPLETION OF IONOSPHERIC ELECTRON DENSITY BY FIREFLY PROJECT CHEMICAL CLOUDS WITH HIGH FREE ELECTRON ATTACHMENT COEFFICIENTS N64-31387 23-12

ELECTRON BEAM
SA BEAM-PLASMA AMPLIFIER
OSCILLATION OF PLASMA ELECTRONS BY ELECTRON BEAM INTERACTION
MIT-TR-407 N64-10014 01-24

PHOSPHORS USED IN CATHODE RAY TUBE SCREEN TO TRANSFORM ELECTRON BEAM ENERGY INTO LIGHT RADIATION
JPRS-18362 N64-10758 02-09

ELECTRON BEAM & ELECTROSLAG REFINING TO IMPROVE QUALITY OF STEELS & ALLOYS FOR WELDMENTS
JPRS-18490 N64-10770 02-18

PRODUCTION OF METALS BY ZONE MELTING & REFINING WITH ELECTRON BEAMS
JPRS-19147 N64-10816 02-18

SPUTTER-ION PUMPS WITH THERMIONIC ELECTRON INJECTION
CPD-74 N64-11788 03-17

ZONE ELECTRON BEAM MELTING AND PRODUCTION OF SINGLE CRYSTALS OF REFRACTORY METALS N64-12447 04-25

GENERATING POSITRONS IN TARGETS BOMBARDED BY ELECTRON BEAM USING ELECTRON-PHOTON CASCADE CALCULATIONS N64-12533 04-23

ENERGY DEPOSITED IN WATER, COPPER, AND ALUMINUM BY ELECTRON BEAM N64-12534 04-23

COLLIMATOR STUDY FOR LINEAR ELECTRON ACCELERATOR N64-12536 04-23

SPREADING OF CIRCULAR ELECTRON BEAM IN ACCELERATING FIELD UNDER SPACE-CHARGE REPULSION
LL-TR-308 N64-12930 04-09

OXIDATION KINETICS OF NIOBIUM IODIDE USING IODIDE REFINING AND ELECTRON BEAM REMELTING METHODS N64-13733 05-07

ELECTRON BEAM AND PLASMA INTERACTIONS FOR MICROWAVE POWER SYSTEMS
RADC-TDR-63-465, VOL. 1 N64-13791 05-24

TEST VEHICLE FOR STUDY OF INTERACTION OF HIGH POWER ELECTRON BEAM WITH PLASMA COMPOSITION N64-13792 04-24

ANALYSIS OF GAIN CHARACTERISTIC AND DISCHARGE CURRENT OF ELECTRON BEAM - PLASMA INTERACTION N64-13793 05-24

INPUT AND OUTPUT COUPLING CAVITY STRUCTURE IN ELECTRON BEAM-HYDROGEN PLASMA SYSTEM N64-13794 05-24

PROPERTY MEASUREMENTS OF TRANSVERSE AND RADIAL ION INDUCED ELECTRON BEAM OSCILLATIONS N64-13795 05-24

GROWTH OF SINGLE CRYSTAL GERMANIUM FILMS BY ELECTRON BEAM MELTING
NASA-CR-55315 N64-13913 05-25

L-BAND SUPER-POWER KLYSTRON USING HIGH PERVEANCE HOLLOW ELECTRON BEAM
QPR-9 N64-14634 06-09

GENERATION OF INFRAMILLIMETRIC WAVES BY MEANS OF ELECTRONIC BEAMS
RADC-TDR-63-29 N64-15058 07-09

DESIGN AND CONSTRUCTION OF CARCINOTRONS FOR GENERATING SUBMILLIMETER WAVES BY ELECTRON BEAMS
RADC-TDR-64-44 N64-15059 07-09

CARCINOTRON TUBE MEASUREMENTS - GENERATION OF INFRAMILLIMETRIC WAVES WITH ELECTRON BEAMS
RADC-TDR-64-45 N64-15060 07-09

ELECTRON BEAM CHARACTERISTICS STUDIES
RADC-TDR-63-518, VOL. 1 N64-16130 08-09

ELECTRON GUN FOR PRODUCTION OF MAGNETICALLY

CONFINED ELECTRON BEAM N64-16131 08-23

SOLENOID CONSTRUCTION WITH AXIALLY SYMMETRIC MAGNETIC FIELD FOR STUDY OF FOCUSING OF ELECTRON BEAM N64-16132 08-23

RADIOFREQUENCY MODULATION AND VELOCITY DISTRIBUTIONS IN BRILLOUIN BEAM N64-16133 08-09

LARGE-SIGNAL VELOCITY DISTRIBUTION INVESTIGATION IN MODULATED BRILLOUIN BEAM
GALCIT-SM-64-10 N64-16134 08-09

CAPTURE EFFECT STUDY USING EFFECTS OF TWO MODULATING FREQUENCIES ON DRIFTING ELECTRON BEAM N64-16138 08-09

NOISE MEASURMENTS IN POWER PERVEANCE ELECTRON BEAMS N64-16141 08-09

ELECTRON BEAM MEASUREMENT OF FIELD EMISSION IN PLASMA SHEATH
ARL-64-14 N64-16776 08-24

PRODUCTION OF RADIATION OF SUBMILLIMETER WAVE-LENGTH FROM RELATIVISTIC ELECTRON BEAM
AD-432143 N64-16845 08-23

HIGH ENERGY PROTON OR ELECTRON BEAM FOR ATMOSPHERIC RESEARCH N64-17114 09-21

EQUATIONS FOR ELECTRON BEAM AND PLASMA DISTRIBUTION IN PRESENCE OF OSCILLATIONS N64-17182 09-24

TRANSVERSE FIELD INTERACTIONS OF BEAM AND PLASMA
ARL-64-16 N64-17286 09-24

INTERACTION OF ELECTRON BEAM OF MODERATE ENERGY WITH FULLY IONIZED PLASMA IMMERSED IN STATIC MAGNETIC FIELD
MATT-239 N64-17502 09-24

ELECTRON BEAM EXCITATION OF ELECTROSTATIC OSCILLATIONS IN MAGNETIC FIELD
MATT-242 N64-17776 09-24

LINEAR ELECTRON BEAM AND MICROWAVE POWER GENERATION
RADC-TDR-63-555 N64-17923 10-09

ELECTRON BEAM MICROANALYSIS OF REFRACTORY ALLOYS TO DETERMINE CONCENTRATION GRADIENTS IN BINARY DIFFUSION COUPLES
ASD-TDR-62-7, PT. 2 N64-18892 11-07

ANALYSIS OF ELECTRON BEAM BY MAGNETIC DEFLECTION SYSTEM
SLAC-26 N64-19078 11-15

KLYSTRON AMPLIFIER - TESTING OF ELECTRON GUN PULSED BEAM TESTERS
RADC-TDR-63-361 N64-19118 11-09

ABSTRACTS OF ARTICLES ON ELECTRON AND PLASMA BEAM DYNAMICS - BIBLIOGRAPHY
AFCRL-64-95 N64-19631 12-24

ELECTRON BEAM MULTIPLIER TUBE FOR HIGH SPEED POWER AMPLIFIER USING BEAM SWITCHED P-N JUNCTIONS
AD-428020 N64-19970 12-09

ACOUSTIC WAVE AMPLIFICATION, OPTICAL MASERS, FERRITE NONLINEAR PROPAGATION, AND INTERACTIONS OF ELECTRON BEAM AND PLASMA
ML-1122 N64-20399 13-23

PRODUCTION OF ELECTRON BEAMS AND DESIGN OF ASSOCIATED BEAM COUPLING STRUCTURES FOR USE IN GENERATING COHERENT POWER IN SUBMILLIMETER REGION
RTD-TDR-63-4212 N64-20404 13-09

ENERGY LOSS OF ELECTRON BEAM IN PLASMA
IPPJ-22 N64-20523 13-24

WELDING OF NIOBIUM BY VACUUM ARC AND ELECTRON BEAM MELTING N64-20656 13-17

S-BAND ELECTRON BEAM DUPLEXER
NA-8210-8352-3 N64-21334 14-09

PLASMA DENSITY IN ARC DISCHARGE - ELECTRON BEAM-PLASMA INTERACTION FOR GENERATION AND AMPLIFICATION OF COHERENT SIGNALS
TR-64 N64-22327 15-24

COMPUTER SIMULATION AND ANALYSIS OF ELECTRON-BEAM-GENERATED PLASMA SHEET
SEL-63-138 N64-23605 16-24

NOISY ELECTRON BEAM OF EXCITED RESONATOR N64-23796 16-08

MICROWAVE AND ELECTRON BEAM INTERACTIONS WITH FINITE PLASMA
RADC-TDR-64-117 N64-24172 16-24

MICROWAVE GENERATION BY INTERACTION BETWEEN ELECTRON BEAMS AND PLASMA OR PYROLYTIC GRAPHITE
S-638 N64-24233 16-08

HOLLOW ELECTRON BEAM, DISC-LOADED COAXIAL-LINE, TRAVELING-WAVE AMPLIFIER
SEL-63-139 N64-24396 17-09

HIGH FREQUENCY ELECTRON-BEAM PARAMETRIC AMPLIFIER
REPT.-10 N64-24596 17-09

LINEAR BEAM AND MICROWAVE POWER GENERATION
RADC-TDR-64-140, VOL. 1 N64-24785 17-23

HIGH SPEED POWER AMPLIFIER USING ELECTRON BEAM SWITCHED P-N JUNCTION
AD-436595 N64-24809 17-09

ELECTROMAGNETIC COMPATIBILITY AND LINEAR ELECTRON BEAM PROPAGATIONS
RADC-TDR-64-140, VOL. III N64-24837 17-09

PERIODIC INTERACTIONS OF SPACE CHARGE WAVE PROPAGATION ALONG ELECTRON BEAM N64-24839 17-09

SPACE-CHARGE WAVE PROPAGATION ALONG PERIODICALLY VARYING ELECTRON BEAM
NASA-CR-56542 N64-24840 17-33

PLASMA INTERACTIONS WITH ELECTRON BEAMS, ELECTROMAGNETIC WAVES, AND MAGNETIC FIELDS N64-24863 17-24

ELECTRON BEAM COMPRESSION USING ELECTRIC AND MAGNETIC FIELDS
NSF-6 N64-25113 17-23

ELECTRON BEAM SYSTEM FOR PRODUCTION OF SHORT DURATION PULSES
BRL-MEMO-1507 N64-25488 17-25

ELECTRON BEAM, SOLID STATE, AND PLASMA DEVICES
MDL-Q7 N64-25640 17-09

MICROWAVE GENERATION BY ELECTRON BEAM INTERACTION WITH ANISOTROPIC MEDIA
REPT.-2 N64-25693 17-24

OPTIMUM INFORMATION OBTAINABLE FROM ELECTRON COLLIDING BEAM EXPERIMENTS
LNF-64/25 N64-25783 17-23

ELECTRON BEAM PARAMETRIC CONVERTER
AL-TDR-64-64 N64-26065 18-09

PREPARATION OF MOLYBDENUM SINGLE CRYSTALS BY ELECTRON-BEAM FLOATING-ZONE MELTING
FTD-TT-64-350/1&2&3&4 N64-26121 18-17

SWITCHING MAGNET WITH LAMINATED H-TYPE MULTISTRANDED WATER-COOLED COIL FOR ELECTRON BEAM
SLAC-28 N64-26607 18-09

TEMPERATURE MEASUREMENT AND CONTROL IN ELECTRON BEAM FURNACE USING OPTICAL AND TWO-COLOR PYROMETERS
NRL-6062 N64-26914 18-15

ATOMIC COLLISIONS AND BEAM SCATTERING STUDIES -

SCATTERING CROSS SECTIONS OF ALKALI METAL ATOMS BY RARE GASES
GDA-DCE-64-037 N64-27552 19-23

HIGH FREQUENCY ELECTRON BEAM PARAMETRIC AMPLIFIER DEVELOPMENT
QPR-8 N64-27709 19-09

ELECTRON BEAM, SOLID STATE, AND PLASMA STUDIES
MDL-Q8 N64-27996 20-23

MULTIPLE COUPLED LADDERS IN BACKWARD-WAVE OSCILLATORS AT MILLIMETER WAVELENGTHS
N64-27997 20-09

ELECTRON BEAM TECHNIQUES FOR CONSTRUCTION OF PARTS FOR ELECTRON TUBES
EBR-136 N64-28714 20-17

PREPARATION OF HIGH PURITY IRON SINGLE CRYSTALS BY FLOAT-ZONE AND ELECTRON BEAM ZONE REFINING OF POLYCRYSTALLINE MATERIAL N64-29097 21-25

ELECTRON BEAM CONVERTERS FOR RESOLVING FUNCTIONS OF TWO VARIABLES INTO FUNCTIONS OF SINGLE VARIABLE N64-29455 21-09

INTERACTION OF TWO ELECTRON BEAMS IN GAPS OR HELICES
SU-SEL-63-137 N64-29529 21-24

TWO CONTRA-STREAMING ELECTRON BEAMS OF EQUAL DENSITIES AND SPEEDS INTERACTING BETWEEN TWO PARALLEL PLANES
D1-82-0332 N64-29648 21-24

INTRA-PULSE PHASE SHIFT IN LINEAR BEAM MICROWAVE TUBES
USAELRDL-TR-2465 N64-29991 21-09

MODE COUPLING IN BOUNDED COLD BEAM PLASMA SYSTEMS - GUIDED WAVE PROPAGATION AND ELECTRON BEAM INTERACTION
RADC-TDR-64-189 N64-30119 21-24

SINGLE-PULSE INSTANTANEOUS SURFACE TEMPERATURE OF METALS SUBJECTED TO HIGH-INTENSITY PULSED ELECTRON BEAM BOMBARDMENT
TR-351 N64-30206 21-13

DEPRESSED COLLECTORS FOR HIGH POWER KLYSTRONS - ELECTRON BEAM TUBES
ESD-TDR-64-339 N64-30648 22-09

NONLINEAR SPACE CHARGE WAVE PROPAGATION ALONG VELOCITY MODULATED, CONFINED, SOLID ELECTRON BEAM OF FINITE RADIAL EXTENSION
RADC-TDR-64-367 N64-30700 22-09

GENERATION OF SUBMILLIMETER WAVES BY MEANS OF ELECTRON BEAMS - CARCINOTRON OSCILLATORS
WR-1213 N64-30814 22-09

TWO THOUSAND DEG F POWER WIRE SYSTEM AND ELECTRON-BEAM FLOAT-ZONE REFINING OF RHODIUM
QR-2 N64-31193 22-18

DESIGN AND FABRICATION OF S-BAND ELECTRON BEAM DUPLEXER
NA-8210-8352-1 N64-31245 22-09

VAPORIZATION OF METAL BY MELTING WITH ELECTRON BEAM - PRODUCING ELECTRON BEAM FROM HOLLOW COLD CATHODE
JPRS-26891 N64-31314 22-17

FILLING FACTOR EFFECT OF DRIFT CHANNEL ON TRAVELING WAVE TUBE EFFICIENCY - ESTIMATE WITH TUBULAR ELECTRON BEAM N64-31360 23-09

MILLIMETER WAVE LARMOTRON AMPLIFIER - CYCLOTRON WAVE ELECTRON BEAM AMPLIFIER
ASD-TDR-63-765 N64-31692 23-09

PROPERTIES OF O-TYPE ELECTRON BEAMS AND USE IN LINEAR BEAM MICROWAVE POWER GENERATION
RADC-TDR-64-278 N64-31947 23-24

FLOW IN LOW PRESSURE HYPERSONIC SHOCK TUNNEL USING ELECTRON BEAM DENSITOMETER
NAL-TR-377 N64-32933 24-11

ELECTRON BEAM WELDING
ELECTRON BEAM WELDING & A NONMELTING POSTHEAT TREATING PASS EMBRACING ONLY FUSION & HEAT AFFECTED ZONES
WAL-TR-401.54/2-5 N64-11185 02-17

ELECTRON BEAM WELDING OF NUCLEAR FUEL CLADDING COMPONENTS
HW-79143 N64-11958 03-17

ELECTRON BEAM FURNACE FOR MELTING AND PURIFYING REACTIVE AND REFRACTORY METALS - METALLURGY
BM-RI-6341 N64-14931 06-18

BERYLLIUM DEVELOPMENT - FUSION BY ELECTRON BOMBARDMENT, ELECTRON-BEAM WELDING, JOINING WITH MAGNETIC FORCE WELDER, AND HONING & LAPPING
AD-429091 N64-14964 06-18

ELECTRON BEAM WELDING OF NIOBIUM, TUNGSTEN, MOLYBDENUM, NICKEL, AND ALUMINUM ALLOYS
N64-17211 09-18

ROTATING FLUID RING SEALS FOR HIGH SPEED SHAFTS IN SPACE - ELECTRON BEAM WELDING OF REX 49 STEEL
AD-429211 N64-19779 12-17

ELECTRON BEAM WELDING AND HERMETIC SEALING OF MICROMINIATURIZED ELECTRONIC MODULES
SCL-7686 N64-21119 14-17

ELECTRON BEAM WELDING IN USSR
JPRS-25171 N64-22798 16-09

ELECTRON BEAM WELDING AND MACHINING OF ELECTRON TUBE MATERIALS
EBR-133 N64-24095 16-09

ELECTRON BEAM WELDING - JOINT FORMATION IN WELDING THICK MATERIALS N64-24256 17-18

ELECTRON BEAM WELDING OF MARAGING STEEL
N64-24352 17-18

EXPERIMENTAL GYROSCOPE - INDUCTION MOTORS, MAGNETIC SHIELDING, TEMPERATURE EFFECTS, FABRICATION OF PROTOTYPE, AND ELECTRON BEAM WELDING
NASA-CR-58499 N64-29201 21-15

HIGH VOLTAGE ELECTRON BEAM WELDING OF ALUMINUM ALLOYS
NASA-CR-58563 N64-29567 21-17

ELECTRON BEAM BRAZING OF BERYLLIUM USING VARIOUS FILLER METALS
NAEC-AML-1997 N64-31095 22-18

ELECTRON BEAM WELDING OF ANNEALED TANTALUM SHEET
MLM-1193 N64-33844 24-17

ELECTRON BOMBARDMENT
SA SECONDARY EMISSION
TITANIUM OXIDES PULVERIZATION AND CONDENSATION BY ELECTRON BOMBARDMENT TO OBTAIN SUPER-HIGH VACUUM
N64-11003 02-23

PERMANENT MAGNETIC CIRCUIT FOR LOW CURRENT DENSITY ELECTRON BOMBARDMENT ION ROCKET ENGINE
N64-11591 03-27

ABSOLUTE GAMMA-RAY INTENSITIES FROM PHOTOFISSION OF URANIUM AND THORIUM AFTER ELECTRON BOMBARDMENT
RTD-TDR-63-3072 N64-12232 03-23

EFFECTS OF HIGH-ENERGY ELECTRON BOMBARDMENT ON FIELD EFFECT AND INJECTION TRANSISTORS
TECH. BULL.-1 N64-13153 04-25

BERYLLIUM DEVELOPMENT - FUSION BY ELECTRON BOMBARDMENT, ELECTRON-BEAM WELDING, JOINING WITH MAGNETIC FORCE WELDER, AND HONING & LAPPING
AD-429091 N64-14964 06-18

MOLECULAR FLOW IN ELECTRON BOMBARDMENT ION CHAMBER AND ANALYSIS OF SPACE CHARGE FLOW IN ION

ACCELERATION
AIAA PAPER-64-7 N64-15303 07-27

HEAVY MOLECULES AS PROPELLANTS FOR ELECTRON BOMBARDMENT ION THRUSTOR AND SURVEY OF MOLECULAR PLASMA COLLISION PROCESSES
NASA-TN-D-1185 N64-15906 07-24

STEADY-STATE CONTROL PROPERTIES OF AN ELECTRON BOMBARDMENT ION THRUSTOR
NASA-TN-D-2171 N64-15910 07-27

ELECTRON BOMBARDMENT HEATING FOR ELECTROTHERMAL PROPULSION
ATN-64/9227/-3 N64-16078 07-27

ELECTRON-BOMBARDMENT ION ROCKET ENGINE WITH PERMANENT MAGNET
AIAA PAPER-63-031 N64-16575 08-27

THEORETICAL CORRECTIONS FOR DETERMINING RESISTIVITY CHANGE OF METALS CAUSED BY ELECTRON BOMBARDMENT
AFCRL-64-2 N64-16867 08-23

VACATING EFFECT OF METALLIC CHROMIUM DISPERSED BY ELECTRON BOMBARDMENT IN HIGH VACUUM
N64-17180 09-23

ANGULAR AND SPECTRAL DISTRIBUTIONS OF LIGHT EMITTED FROM ELECTRON-BOMBARDED SILVER FOILS
ORNL-3485 N64-17266 09-23

ATTRITION OF TANTALUM FILAMENTS OPERATING WITH ELECTRON-BOMBARDMENT ION SOURCES USING MERCURY PROPELLANT
NASA-TN-D-2173 N64-19483 12-27

PARAMAGNETIC CENTERS IN GERMANIUM OXIDE GLASS CAUSED BY ELECTRON BOMBARDMENT AND GAMMA RADIATION
ORNL-3635 N64-23212 16-09

SUSTAINED BOMBARDMENT INDUCED CONDUCTIVITY STORAGE TARGET FOR MEMORY TUBES
REPT.-1 N64-24096 16-09

ELECTRON BOMBARDMENT ION ENGINE USING MERCURY AS PROPELLANT
NASA-CR-54082 N64-25008 17-27

CESIUM VAPOR AUTOMATIC CONTROL SYSTEMS FOR ELECTRON BOMBARDMENT AND CONTACT ION ENGINES
AIAA PAPER-64-504 N64-25177 17-27

PERFORMANCE AND POWER REQUIREMENTS FOR ELECTRON BOMBARDMENT ELECTROSTATIC THRUSTOR
NASA-TM-X-52019 N64-25907 18-27

HEAVY MOLECULE PROPELLANTS IN ELECTRON BOMBARDMENT THRUSTOR
NASA-TN-D-2401 N64-26453 18-27

ELECTRON BOMBARDMENT HEATING FOR BOILING LIQUID METALS
ANL-6869 N64-26483 18-13

ELECTRON BOMBARDMENT CESIUM ION ENGINE SYSTEM
NASA-CR-54067 N64-28052 20-27

CATHODE FOR MERCURY ELECTRON-BOMBARDMENT THRUSTORS
AIAA PAPER-64-690 N64-28304 20-27

CATHODE DURABILITY IN MERCURY ELECTRON BOMBARDMENT ION THRUSTOR
AIAA PAPER-64-683 N64-28361 20-27

PLASMA NONUNIFORMITY EFFECTS ON GRID EROSION IN ELECTRON BOMBARDMENT ION ENGINE
AIAA PAPER-64-688 N64-28363 20-27

DESIGN AND PERFORMANCE OF 50 CENTIMETER DIAMETER MERCURY ELECTRON BOMBARDMENT ION THRUSTOR
AIAA PAPER-64-689 N64-28364 20-27

DEFECT CHEMISTRY OF COMPOUNDS WITH COMPARISON OF ELECTRICAL BEHAVIOR AFTER ELECTRON BOMBARDMENT
AFCRL-64-467 N64-28579 20-25

SIZE EFFECTS ON STEADY STATE CONTROL PROPERTIES OF ELECTRON BOMBARDMENT ION THRUSTOR
NASA-TN-D-2470 N64-28724 20-27

CREATING BEAMS OF HIGH-SPEED IONS BY CONTACT IONIZATION THRUSTORS AND ELECTRON BOMBARDMENT THRUSTORS FOR ELECTRIC PROPULSION OF SPACECRAFT
NASA-RP-290 N64-28946 20-27

LONG-TIME TEST OF ELECTRON BOMBARDMENT CESIUM ION ROCKET ENGINE, NEW PERMANENT MAGNET ENGINE, PLASMA DISTRIBUTION, AND AUTOCATHODE STUDIES
NASA-CR-54026 N64-29495 21-27

EFFECTS OF ELECTRON BOMBARDMENT HEATING ON SURFACE OF POLISHED TUNGSTEN SHEET AND FOIL
NRL-6119 N64-29957 21-18

SINGLE-PULSE INSTANTANEOUS SURFACE TEMPERATURE OF METALS SUBJECTED TO HIGH-INTENSITY PULSED ELECTRON BEAM BOMBARDMENT
TR-351 N64-30206 21-13

PROBLEMS OF ION BEAM FORMATION FROM ELECTRON BOMBARDMENT ION SOURCES
NASA-CR-54143 N64-31088 22-27

ENERGY REQUIREMENT FOR ION PRODUCTION BY ELECTRON BOMBARDMENT IN HELIUM, ARGON, AND CESIUM GASES
NASA-TM-X-52064 N64-32438 23-24

ELECTRON BUNCHING
S CONVECTION CURRENT
S VELOCITY

ELECTRON COLLISION
COLLISION PROCESSES IN GASEOUS PLASMAS
SATR-1 N64-18704 11-24

METHOD FOR EVALUATING ELECTRON COLLISION FREQUENCY IN IONOSPHERE BY SOLVING BAILEY EQUATION
N64-19680 12-12

COEFFICIENTS FOR ELECTRON ATTACHMENT, ELECTRON-MOLECULE COLLISIONS, AND ION-ION AND ELECTRON-ION RECOMBINATION IN ATMOSPHERIC GASES AND IMPURITIES
RTD-TDR-63-3076 N64-20112 13-24

ENTRAPMENT AND LOSS OF ELECTRONS DURING PASSING OF FAST ATOMS IN MOLECULAR GAS
FTD-TT-63-1055/1&2 N64-23313 16-23

MOMENTUM TRANSFER COLLISION FREQUENCIES OF ELECTRONS WITH NEON IONS AND NEUTRAL ATOMS IN DECAYING NEON PLASMA
R-201 N64-24645 17-24

DETERMINATION OF ETA PARTICLE LIFETIME FROM ELECTRON-POSITRON BEAM COLLISIONS
LNF-64/15 N64-25643 17-23

OPTIMUM INFORMATION OBTAINABLE FROM ELECTRON COLLIDING BEAM EXPERIMENTS
LNF-64/25 N64-25783 17-23

LINEAR SLIDE RULE FOR COMPUTING ISOTROPIC PLASMA COMPONENTS FROM PLASMA AND ELECTRON COLLISION FREQUENCIES
REPT.-1565-10 N64-27772 19-15

PROBABILITY OF COLLISION FOR MOMENTUM TRANSFER OF SLOW ELECTRONS IN NITROGEN PLASMA AFTERGLOW
NASA-CR-104 N64-31202 22-24

DETERMINATION OF ELECTRON COLLISION FREQUENCY AND DECAY RATE OF CESIUM GAS DISCHARGE PLASMA BY MICROWAVE METHOD
NASA-TT-F-8980 N64-33387 24-24

HYDROGEN ATOM IONIZATION BY ELECTRON COLLISION
NASA-TM-X-55081 N64-33633 24-24

EXCITATION OF HYDROGEN ATOM BY ELECTRON COLLISION
NASA-TM-X-55082 N64-33634 24-24

ELECTRON DENSITY
SA IONOSPHERIC ELECTRON DENSITY
EFFECTS OF NONLINEAR RESPONSE OF PLASMA ELECTRON DISTRIBUTION IN RESONANCE WITH OSCILLATING PROBE POTENTIAL

NUP-63-14 N64-10012 01-23

EFFECT OF COLLISIONS ON PLASMA ELECTRON DENSITY FLUCTUATIONS - FOKKER-PLANCK EQUATION
SSD-TDR-63-265 N64-12657 04-24

NONLINEAR RESPONSE OF ELECTRON DISTRIBUTION IN PHENOMENA OF RESONANCE PROBE
NUP-63-15 N64-13003 04-24

MACH-ZEHNDER INTERFEROMETER OBSERVATION OF ELECTRON DENSITY RADIAL DISTRIBUTION
LAMS-3004 N64-13220 04-23

ABSORPTION COEFFICIENT, ELECTRON DENSITY, AND COLLISION RATE OF HELIUM PLASMA WITH ARGON TRACE AT HIGH MICROWAVE FIELD INTENSITIES
N64-14222 06-24

FORTRAN PROGRAMS FOR ELECTRON DENSITY AND SYMMETRY PROJECTION - MATRIX CALCULATION
E-359-P N64-14362 06-23

FORTRAN SUBROUTINE FOR CALCULATING THERMODYNAMIC PROPERTIES OF EQUILIBRIUM AIR AND ELECTRON CONCENTRATIONS AT VARIED DENSITY RANGES
AD-432286 N64-17512 09-20

MEASURING APPARATUS FOR PLASMA ELECTRON DENSITY
AFCRL-64-247 N64-18792 11-24

ELECTRON DENSITY IN WAKE OF HYPERVELOCITY PELLET
TR-307 N64-21145 14-24

ELECTRON DENSITY MEASUREMENTS IN DENSE COLD GASEOUS PLASMA
AD-434265 N64-22089 15-24

PRECURSOR ELECTRON DENSITY IN FRONT OF SHOCK WAVES OF HYPERSONIC PROJECTILES
TR63-217E N64-22288 15-11

RADIO FREQUENCY PROBING TECHNIQUE FOR MEASUREMENT OF LOW PLASMA ELECTRON DENSITY
PIBMRI-1165-63 N64-23955 16-24

VARIATION OF ELECTRON DENSITY ALONG POSITIVE COLUMN OF LOW PRESSURE MERCURY DISCHARGE
N64-24674 17-24

APPROXIMATION METHOD FOR COMPUTING BACKSCATTERING FROM CYLINDRICAL PLASMA CONFIGURATION WITH AXISYMMETRIC ELECTRON DENSITY
TR-394 N64-25589 17-24

NONEQUILIBRIUM ELECTRON DENSITY DISTRIBUTIONS IN HYPERSONIC FLOWS OF AIR AROUND BLUNT BODIES
CARDE-TR-503/64 N64-27414 19-11

LANGMUIR PROBE USED TO MEASURE ELECTRON DENSITY IN PLASMA SHEATH AROUND REENTRY VEHICLE
NASA-CR-56371 N64-27909 20-24

DEIONIZATION OF HIGHLY IONIZED ATMOSPHERE - CHEMICAL KINETICS CONTROLLING ELECTRON DENSITY DECAY FOLLOWING NUCLEAR EXPLOSION
AFCRL-64-496 N64-28566 20-07

TEMPERATURE AND ELECTRON DENSITY COMPUTATIONS FOR UPPER ATMOSPHERE OF JUPITER USING TWO EXTREME ATMOSPHERE MODELS
NASA-TM-X-51917 N64-28762 20-29

DETERMINATION OF ELECTRON DENSITY AND ELECTRON COLLISION FREQUENCY IN PULSED GAS DISCHARGE PLASMA
N64-30357 22-24

MICROWAVE STUDY OF ELECTRON SPATIAL DISTRIBUTION IN PLASMA
N64-30358 22-24

WAVE PROPAGATION MEASUREMENT TO DETERMINE ELECTRON DENSITY, COLLISION FREQUENCY, AND ELECTRON TEMPERATURE
N64-30360 22-24

CHEMICAL KINETICS OF SODIUM IN REENTRY - ELECTRON DENSITY AND RADIATION
R64SD33 N64-30980 22-07

FIREFLY PROJECT IONOSONDE MEASUREMENTS OF ELECTRON DENSITY IN E AND F LAYERS FROM EXPLOSIONS AND CHEMICAL CLOUDS
N64-31383 23-12

ROCKET MEASUREMENT OF ELECTRON DENSITY IN LOW IONOSPHERE
NASA-RP-347 N64-32641 23-12

ELECTRON DENSITY PROFILE

MORPHOLOGY OF ELECTRON DISTRIBUTION IN OUTER RADIATION ZONE & NEAR MAGNETOSPHERIC BOUNDARY BY EXPLORER XII DATA
NASA-CR-52300 N64-10178 01-12

ELECTRON DENSITY PROFILE MEASUREMENTS IN NIGHTTIME E-LAYER USING LANGMUIR PROBE
NASA-CR-52553 N64-11074 02-12

SCATTERING DESCRIPTION OF ELECTROMAGNETIC WAVES BY ELECTRON DENSITY PROFILE OF ELECTRON-PHONON SYSTEM
MATT-201 N64-11585 03-24

MEAN ELECTRON DENSITY VARIATIONS OF QUIET IONOSPHERE
NRS-TN-40-12 N64-14719 06-12

ANALYSIS OF ELECTRON DENSITY-HEIGHT PROFILE FROM VIRTUAL HEIGHT-FREQUENCY RECORDS BY METHOD OF LEAST SQUARES - IONOSPHERIC RESEARCH
NASA-CR-55431 N64-14905 06-12

ELECTRON DENSITY PROFILES IN LOWER ATMOSPHERE DUE TO SOLAR COSMIC RAYS
CR-68 N64-15977 07-12

EXPONENTIAL ELECTRON DENSITY PROFILE ABOVE F-2 LAYER OF IONOSPHERE - ALOUETTE SATELLITE IONOGRAM
USAELRDL-TR-2424 N64-18042 10-12

ELECTRON DENSITY PROFILES IN QUIET D-LAYER FROM IONOSPHERIC CROSS MODULATION OBSERVATIONS
N64-19678 12-12

METHODS OF ANALYSIS OF DATA FROM ALOUETTE TOPSIDE SOUNDER SATELLITE & REDUCTION TO ELECTRON DENSITY DISTRIBUTION WITH HEIGHT
NASA-RP-169 N64-20018 13-12

ELECTRON DENSITY PROFILE IN PLASMA JET - LANGMUIR PROBE DETERMINATION
R-89 N64-23985 16-24

COMPARISON OF METHODS FOR CONVERSION OF WAVE INTERACTION DATA TO ELECTRON DENSITY PROFILE
SR-220 N64-25779 17-23

ELECTRON DENSITY PROFILE DETERMINATION OF IONOSPHERIC D REGION - ANALYSIS OF RADIO WAVE PROPAGATION EFFECTS IN D REGION
E-T-R-64-24 N64-28688 20-12

OBTAINING ELECTRON DENSITY PROFILES FROM CAPACITIVE IONOSPHERIC ROCKET PROBES
NASA-CR-58605 N64-28877 20-12

ELECTRON DENSITY PROFILES FOR QUIET DAY MID-LATITUDE D REGION USING NIKE-APACHE SOUNDING ROCKETS
NASA-TM-X-55075 N64-33558 24-12

ELECTRON DISTRIBUTION

ION AND ELECTRON DISTRIBUTION IN EXOSPHERE
NASA-CR-53689 N64-20008 13-12

MORPHOLOGY OF ELECTRON DISTRIBUTION IN OUTER RADIATION ZONE & NEAR MAGNETOSPHERIC BOUNDARY
N64-25660 17-24

COMPUTATIONS OF ELECTRON DISTRIBUTIONS ABOUT THERMIONICALLY EMITTING PARTICLES, & ION SAMPLING FROM CHEMICAL PLASMAS
QSR-7 N64-28644 20-24

UPPER IONOSPHERE DIURNAL, SEASONAL, AND GEOGRAPHICAL VARIATIONS IN SCALE HEIGHT AND TOTAL ELECTRON NUMBER
N64-29723 21-12

LOW ENERGY ELECTRON DISTRIBUTION IN OUTER PORTION OF EARTH MAGNETOSPHERE NEAR GEOMAGNETIC EQUATORIAL PLANE - EXPLORER SATELLITE DATA

N64-33152 24-28

LECTRON EMISSION
ELECTRON AND ION EMISSION FROM SOLIDS
NASA-TT-F-73 N64-11561 03-23

CADMIUM SULFIDE EVAPORATION SOURCE WITH LIMITED DIFFUSION RATE - HOT ELECTRON EMITTER EVALUATION
AFCRL-63-853 N64-13659 05-25

COMPUTER CALCULATION OF HIGH ENERGY SECONDARY ELECTRON EMISSIONS WITH RESPECT TO INTENSITY, ENERGY LOSS, AND ENERGY & EMISSION SPECTRA
AFSWC-TDR-63-50 N64-13774 05-23

ELECTRON & ION EMISSION FROM LASER-HEATED OXIDE CATHODES N64-13798 05-25

EMISSION OF ELECTRONS & IONS FROM TUNGSTEN SURFACE HEATED BY PULSED LASER BEAM N64-13800 05-25

S-CURVES OF ELECTRON EMISSION FOR ABSORBATES, SUBSTRATES, AND ARRIVAL RATES FROM PARTIALLY COVERED CESIUM METAL SURFACE N64-14211 06-23

ELECTRON EMISSION TEST OF URANIUM CARBIDE COMPATIBILITY WITH TUNGSTEN ALLOYS FOR NUCLEAR FUEL ELEMENTS N64-14212 06-18

THERMIONIC EMISSION OF ELECTRONS FROM HOT BODIES SURROUNDED BY PLASMA - ELECTRIC POTENTIAL FIELD & ELECTRON DENSITY DISTRIBUTION AROUND BODY
NASA-RP-124 N64-14930 06-29

MAGNETOHYDRODYNAMICS, ELECTRON & ION EMISSION FROM TUNGSTEN FILAMENT, AND ION PENETRATION THROUGH IONIC DIPOLE LAYER AT ELECTRODE SURFACE N64-17901 10-23

GROWTH OF SINGLE CRYSTAL TUNGSTEN FILAMENT AND VACUUM MEASUREMENTS OF ELECTRON EMISSION FROM FILAMENT N64-17904 10-23

PROTON AND ELECTRON EMISSION COMPONENTS OF COSMIC RAYS
NASA-CR-53589 N64-18433 10-28

HOT ELECTRON EMITTERS - VAPOR DEPOSITION OF CADMIUM SULFIDE & PHOTOELECTRIC MEASUREMENT OF HOT ELECTRON RANGE IN GOLD
AFCRL-64-134 N64-18604 11-25

EVAPORATION CHARACTERISTICS FOR CADMIUM SELENIDE - HOT ELECTRON EMITTER
AFCRL-64-390 N64-22686 15-25

THERMAL ELECTRON EMISSION FROM HOLLOW OXIDE CATHODES
FTD-TT-63-367/1&2&4 N64-23427 16-09

METAL SUBSTRATE WITH LAYER OF FROZEN XENON AS SECONDARY ELECTRON EMITTER
AFCRL-64-405 N64-24931 17-09

THERMIONIC TRANSDUCER, CONVERTER, DIODES, SINGLE CRYSTAL ELECTRON WORK FUNCTION, TUNGSTEN ELECTRON EMISSION, AND SURFACE DIFFUSION FROM CALCIUM TO TUNGSTEN
WGLR-2/1964 N64-26756 18-06

ANISOTROPY OF COEFFICIENT OF ION-ELECTRON EMISSION IN SINGLE CRYSTALS
FTD-TT-64-130/1&2&4 N64-27080 19-25

ELECTRONIC RELAXATION EFFECT IN METAL EMISSIVITY
USNRDL-TR-755 N64-30596 22-25

ELECTRON EMITTING PROPERTIES OF SMALL CESIUM ANTIMONIDE, ALUMINUM, AND SULFUR PARTICLES
AFCRL-64-689 N64-33531 24-25

ELECTRON GAS
GROUND STATE ENERGY & STABILITY OF DEGENERATE ELECTRON GAS
NUP-63-17 N64-14071 05-23

RELAXATION TIME AND PHONON MEAN FREE PATH FOR ELECTRON-ION GAS - QUANTUM MECHANICS
IPPJ-18 N64-18143 10-24

NOISE PROPAGATION IN ACCELERATED NONUNIFORM ELECTRON GAS
REPT.-05000-13-T N64-25753 17-24

HIGH FREQUENCY CONDUCTIVITY TENSOR OF HOT, DILUTE, ELECTRON GAS NEAR EQUILIBRIUM
RM-4109-PR N64-25985 18-24

CLASSICAL STABILITY THEOREM FOR THERMAL EQUILIBRIUM STATE OF ELECTRON GAS IN MAGNETIC FIELD
TR-21 N64-28634 20-24

SELF-SUSTAINED OSCILLATIONS OF QUANTUM MECHANICAL ELECTRON GAS IN UNIFORM MAGNETIC FIELD
TR-22 N64-28716 20-24

KINETIC THEORY OF CLASSICAL ELECTRON GAS IN POSITIVE BACKGROUND - EQUILIBRIUM THEORY
N64-29662 21-24

GROUND STATE OF INTERACTING ELECTRON GAS IN EXTERNAL POTENTIAL
TR-23 N64-29712 21-11

THERMAL AND ELECTRICAL CONDUCTIVITY OF DEGENERATE ELECTRON GAS AND CALCULATIONS FOR COOLING STELLAR PLASMA
AFCRL-64-528 N64-29802 21-09

FAST WAVE INTERACTION MECHANISMS BETWEEN MICROWAVE RADIATION AND PLASMA OR ELECTRON GAS IN UNIFORM MAGNETIC FIELD
AFCRL-64-445 N64-31987 23-24

ELECTRON GUN
SA CATHODE RAY TUBE
HOLLOW AND SOLID BEAM INTERACTION STRUCTURE FOR TRAVELING WAVE TUBES
ASD-TDR-63-569 N64-13769 05-09

ELECTRON GUN FOR PRODUCTION OF MAGNETICALLY CONFINED ELECTRON BEAM N64-16131 08-23

ELECTRON GUNS UTILIZING COLD HOLLOW CATHODES
N64-17730 09-09

OSCILLATION IN TRAVELING WAVE TUBES - KLYSTRONS & ELECTRON GUNS
RADC-TDR-64-58 N64-18651 11-09

KLYSTRON AMPLIFIER - TESTING OF ELECTRON GUN PULSED BEAM TESTERS
RADC-TDR-63-361 N64-19118 11-09

DESIGN AND EVALUATION OF IMAGE DISSECTOR ELECTRON GUN FOR USE IN SCANNABLE MICROWAVE PHOTODETECTOR
RADC-TDR-64-74 N64-20029 13-23

MAGNETIC FIELD ABOUT INVERTED MAGNETRON INJECTION ELECTRON GUN
QPR-10 N64-20099 13-09

FORTRAN COMPUTER PROGRAMS FOR ANALYSIS OF ELECTRON GUNS, KLYSTRONS, AND TRAVELING WAVE TUBES
RADC-TDR-64-119 N64-23956 16-23

HIGH POWER PULSE MODULATOR FOR POWER SUPPLY TO ELECTRON GUN
NRL-6073 N64-25181 17-09

ELECTRON GUN FOR VAPORIZING MATERIAL AT HIGH MELTING POINT - PRODUCTION OF VANADIUM AND NIOBIUM THIN FILMS
LNF-64/9 N64-25669 17-15

DIGITAL COMPUTER ANALYSIS OF CROSSED FIELD ELECTRON GUNS
TR-71 N64-25702 17-23

SHAPED FIELD HOLLOW BEAM ELECTRON GUN FOR INTERMEDIATE AND HIGH POWER TRAVELING WAVE TUBES
NJ-2761-0173-1 N64-26238 20-10

MAGNETRON INJECTION AND ELECTROSTATIC GUNS FOR HIGH PERVEANCE KLYSTRON
REPT.-11 N64-31116 22-09

HIGH POWER CRESTATRON STUDIES - HOLLOW BEAM ELECTRON GUN USING ELECTROSTATIC AND MAGNETIC FOCUSING
QPR-16 N64-32559 23-09

ELECTRON IMPACT
HYDROGEN ATOM IONIZATION BY ELECTRON IMPACT
FTD-TT-63-868 N64-13921 05-23

VIBRATIONAL EXCITATION OF NITROGEN, CARBON MONOXIDE, AND HYDROGEN BY ELECTRON IMPACT
AD-433190 N64-18267 10-23

EVALUATION OF 3X3 CROSS SECTION MATRIX INVOLVED IN ELECTRON IMPACT EXCITATION OF GROUND STATE HYDROGEN ATOM TO 2S AND 2P LEVELS
NASA-TN-D-2145 N64-21266 14-23

COMPARATIVE STUDY OF EXPRESSIONS FOR HYDROGEN IONIZATION CROSS SECTION AND COEFFICIENT OF IONIZATION BY ELECTRON IMPACT
NASA-TT-F-8911 N64-25867 18-23

ELECTRON IMPACT IONIZATION AND ATTACHMENT IN POLYATOMIC GASES, AND CORONA-INDUCED WEIGHT LOSS IN MYLAR AND H FILMS
ML-TDR-64-57 N64-26308 18-07

MOLECULAR GAS OSCILLATOR STRENGTHS INVESTIGATED BY ELECTRON IMPACT METHOD
AFCRL-64-669 N64-29011 20-07

2S AND 2P ELECTRON IMPACT EXCITATION IN ATOMIC HYDROGEN
NASA-RP-305 N64-29341 21-23

ELECTRON IMPACT IONIZATION AND ATTACHMENT IN POLYATOMIC GASES, AND CHEMICAL DEGRADATION OF MATERIALS FROM CORONA DISCHARGE
ML-TDR-64-57 N64-32751 24-07

ELECTRON IMPACT PROCESSES IN ELECTRONEGATIVE PERFLUOROCARBONS - NEGATIVE ION MASS SPECTROMETRY
N64-32752 24-07

EXCITATION OF METASTABLE ATOMS AND MOLECULES BY ELECTRON IMPACT ON THERMAL MOLECULAR BEAM
AFCRL-64-698 N64-33267 24-12

ELECTRON INTERACTION
OSCILLATION OF PLASMA ELECTRONS BY ELECTRON BEAM INTERACTION
MIT-TR-407 N64-10014 01-24

QUANTUM ELECTRODYNAMICS - HIGH ENERGY INTERACTIONS OF ELECTRONS AND POSITRONS
JPRS-17999 N64-10494 01-23

ELECTRON-EXCHANGE CORRECTION TO SOUND-WAVE DISPERSION RELATION IN METALS
NASA-CR-53035 N64-13406 04-25

CLOSE-IN ELECTROMAGNETIC FIELDS PRODUCED BY GEOMAGNETIC FIELD INTERACTION WITH ELECTRONS FROM NUCLEAR EXPLOSION
RM-3525-PR N64-16044 07-23

QUANTUM ELECTRODYNAMIC THEORY OF ELECTRON INTERACTIONS USING HELIUM ISOELECTRONIC SEQUENCE
AFCRL-64-224 N64-16564 08-23

INCREASE OF SOUND VELOCITY IN METALS DUE TO EXTERNAL MAGNETIC FIELD INTERACTION WITH MAGNETIC MOMENT OF CONDUCTION ELECTRONS
NASA-CR-53533 N64-18214 10-25

ELECTRIC QUADRUPOLE INTERACTIONS IN RARE EARTH IONS
AMRA-TR-63-33 N64-19106 11-23

ELECTRON INTERACTIONS IN GASEOUS HELIUM PLASMA UNDER CRYOGENIC CONDITIONS
AFCRL-64-67 N64-20860 14-24

COULOMB INTERACTION OF ELECTRONS WITH IONS ON OPTIMUM COMPOSITION OF GASEOUS MIXTURE
FTD-TT-64-441/1&2&4 N64-22161 15-24

MICROWAVE AND ELECTRON BEAM INTERACTIONS WITH FINITE PLASMA
RADC-TDR-64-117 N64-24172 16-24

ELECTRONIC RESEARCH IN CIRCUIT THEORY, ELECTRON STREAMS AND INTERACTIONS, PLASMAS AND SOLID-STATE SYSTEMS
QPR-12 N64-25695 17-09

KINETIC STUDY OF ELECTRONS IN WEAKLY IONIZED GASES - ARGON, ARGON-HYDROGEN, & ARGON-CARBON MONOXIDE
AFCRL-64-444 N64-26236 18-24

NONADIABATIC THEORY OF INELASTIC ELECTRON SCATTERING FROM ATOMIC HYDROGEN
NASA-RP-269 N64-26251 18-23

TWO CONTRA-STREAMING ELECTRON BEAMS OF EQUAL DENSITIES AND SPEEDS INTERACTING BETWEEN TWO PARALLEL PLANES
D1-82-0332 N64-29648 21-24

MAGNETIC SYMMETRY AND ELECTRON-NUCLEUS INTERACTIONS IN MAGNETIC CRYSTALS
TN-1 N64-30051 21-25

RADICAL MATRIX INTERACTIONS IN LOW TEMPERATURE GLASSES - PHOTOREVERSABILITY
SSD-TDR-64-110 N64-31980 23-25

IMPROVED EXPRESSIONS FOR ELECTRON MATRIX ELEMENTS OF SPIN INTERACTION
T-R-399 N64-33431 24-23

ELECTRON ION RECOMBINATION
ATMOSPHERIC ELECTRICITY FROM ION AND ELECTRON REACTIONS WITH COSMIC RADIATION ABOVE EXCHANGE LAYER
NASA-TN-D-2092 N64-12960 04-12

ELECTRON-ION RECOMBINATION, DENSITY MEASUREMENTS, DYNAMIC STABILITY, AND RUNAWAY EFFECT WITHIN PLASMA COMPOSITION
AFCRL-63-199/2/ N64-14220 06-24

THREE-BODY ELECTRON-ION RECOMBINATION IN DENSE PLASMA OF HELIUM WITH TRACE OF ARGON
N64-14221 06-24

EFFECT OF ELECTRON-ION COLLISIONS & HIGH ELECTRON TEMPERATURE ON CONDUCTIVITY & POWER DENSITY IN MAGNETOHYDRODYNAMIC GENERATORS
NASA-TN-D-2118 N64-15197 07-24

ELECTRON-ION RECOMBINATION IN FLOW OF PARTIALLY IONIZED ARGON PLASMA THROUGH WIND-TUNNEL NOZZLES
ARC-CP-634 N64-17247 09-24

RECOMBINATION OF MOLECULAR POSITIVE IONS WITH ELECTRONS
APP-5, TR-3 N64-18627 11-24

COEFFICIENTS FOR ELECTRON ATTACHMENT, ELECTRON-MOLECULE COLLISIONS, AND ION-ION AND ELECTRON-ION RECOMBINATION IN ATMOSPHERIC GASES AND IMPURITIES
RTD-TDR-63-3076 N64-20112 13-24

RECOMBINATION OF MOLECULAR POSITIVE IONS WITH ELECTRONS - DISSOCIATIVE RECOMBINATION
APP-5, TR-4 N64-20540 13-24

ELECTRON-ION RECOMBINATION IN ARGON FLOWING THROUGH SUPERSONIC NOZZLE N64-26130 18-24

ELECTRON-ION MIXING IN ION ENGINES
NASA-CR-54033 N64-28735 20-21

MEASUREMENT OF THREE-BODY ELECTRON-ION RECOMBINATION IN DENSE PLASMA
AFCRL-63-119/II/ N64-31246 22-24

ELECTRON MICROSCOPY
TRANSMISSION ELECTRON MICROSCOPY OF SUBSTRUCTURES OF PLASTICALLY DEFORMED COPPER UNDER STATIC AND SHOCK LOADING
UCRL-10932 N64-10396 01-18

DISLOCATION OF ZINC CRYSTAL STRUCTURES, ALLOY DEFORMATION STUDY BY ELECTRON MICROSCOPE

JPRS-18154 N64-10745 02-18

ELECTRON MICROSCOPE STUDY OF SLIP FLOW TRANSITION IN DEFORMATION OF COPPER-GOLD AND COPPER-PALLADIUM ALLOYS N64-10747 02-18

ELECTRON MICROSCOPIC STUDY OF STRUCTURE OF CELLULOSE
JPRS-22156 N64-11361 02-19

SINTERED ALUMINUM POWDER - ELECTRON MICROSCOPE STUDY OF STRUCTURAL CHANGES DURING HEATING
JPRS-22219 N64-11362 02-18

ELECTRON MICROSCOPY AND NONDESTRUCTIVE TESTING
JPRS-22443 N64-11923 03-15

ELECTRON MICROSCOPE INVESTIGATION OF CARTILAGE CELL DIFFERENTIATION IN REGENERATING BONE N64-12497 04-16

ELECTRON MICROSCOPE ANALYSIS OF IRON DIFFUSION INTO SODIUM DISILICATE GLASS ROD
UCRL-11116 N64-14400 06-25

ELECTRON MICROSCOPIC STUDY OF EARLY CHANGES IN NEURONS DUE TO HYPOXIDOSIS AND ULTRASTRUCTURAL ASPECTS OF NEURONAL NECROSIS IN CEREBRAL CORTEX N64-14592 06-16

SURFACE SUBSTRUCTURE OF IRON WHISKER SPECIMENS - ELECTRON SHADOWGRAPHS AND MICROGRAPHS
ASD-TDR-63-4136 N64-15094 07-25

ELECTRON MICROSCOPIC FRACTOGRAPHIC STUDIES OF ALUMINUM ALLOYS
DMIC-MEMO-186 N64-16696 08-33

CONDENSER TILTING DEVICE FOR DIFFRACTED BEAM ELECTRON MICROSCOPE USED FOR EXAMINING THIN FOILS
AFCRL-64-43 N64-18061 10-15

HISTOCHEMICAL AND ELECTRON MICROSCOPIC STUDIES OF GRAVITY RECEPTOR CELLS OF UTRICLE OF GUINEA PIGS SUBJECTED TO RADIAL ACCELERATION
JPRS-23837 N64-18084 10-16

ELECTRON-MICROSCOPIC FRACTOGRAPHIC STUDY OF INTERGRANULAR FRACTURE IN HIGH STRENGTH STEELS
DMIC-MEMO-187 N64-18596 11-18

ELECTRON MICROSCOPE STUDY OF URANIUM ALLOYS AND ALLOY OF THORIUM FUEL ELEMENT STRUCTURES
MCW-1483 N64-19249 11-18

TRANSGRANULAR AND INTERGRANULAR SURFACE FRACTURE OF METALS & ALLOYS - ELECTRON MICROSCOPY
01-82-0169-RI N64-20275 13-23

ELECTRON MICROSCOPE STUDY OF LAMELLAR COMPOUNDS OF GRAPHITE WITH BROMINE, IODINE MONOCHLORIDE AND FERRIC CHLORIDE
EUR-542.E N64-21006 14-19

OBSERVATIONS BY TRANSMISSION ELECTRON MICROSCOPY ON DISLOCATIONS IN URANIUM AND DISLOCATIONS AND RADIATION DAMAGE IN PLATINUM
EUR-243.E N64-21047 14-18

ELECTRON MICROSCOPE INVESTIGATION OF FRACTURE SURFACES IN POWDER METALLURGICAL SPECIMENS N64-22174 15-18

STRUCTURE OF SINGLE CRYSTAL GRAPHITE OBSERVED BY ELECTRON MICROSCOPY
AD-600760 N64-22720 15-19

USE OF EXPOSURE METER IN ELECTRON MICROSCOPY N64-23146 16-09

CORRELATIVE STUDIES OF BIOLOGICAL MOLECULAR STRUCTURE BY HIGH RESOLUTION ELECTRON MICROSCOPY
NASA-CR-56227 N64-24110 16-16

DISLOCATION REARRANGEMENT IN FATIGUE HARDENED ALUMINUM DURING PREPARATION OF SAMPLES FOR TRANSMISSION ELECTRON MICROSCOPY - THEORY OF FATIGUE CRACK PROPAGATION
QPR-2 N64-26864 18-18

ELECTRON MICROSCOPIC INVESTIGATION OF ANNEALED AND ION BOMBARDED SINTERED ALUMINUM POWDER FOILS
EUR-1833.E N64-28132 20-18

ELECTRON MICROSCOPIC EXAMINATION OF BACTERIAL CELLS SUBJECTED TO STRONG GRAVITATIONAL FIELDS N64-28767 20-16

ELECTRON MICROGRAPHIC STUDIES AND HARDNESS TESTS MADE OF COPPER-SILICON DIOXIDE ALLOY N64-28844 20-18

TRANSMISSION ELECTRON MICROSCOPIC OBSERVATIONS OF FATIGUE INDUCED DEFORMATION FAULTING IN THIN FOIL STAINLESS STEEL
AFOSR-64-1004 N64-29999 21-18

IRRADIATION-PRODUCED RADICALS, ELECTRON MICROSCOPY OF SINGLE-STRAND DEOXYRIBONUCLEIC ACID, AND IRRADIATION-INDUCED DEFECTS IN DEOXYRIBONUCLEIC ACID
UCRL-11387, SUPPL. N64-30782 22-16

RING STRUCTURE OF SINGLE STRAND DEOXYRIBONUCLEIC ACID SHOWN BY ELECTRON MICROSCOPY N64-30785 22-16

CORRELATIVE STUDIES OF BIOLOGICAL ULTRASTRUCTURE BY HIGH RESOLUTION ELECTRON MICROSCOPY N64-30791 22-16

MIGRATION, DESORPTION, AND VOLTAGE BREAKDOWN PROPERTIES OF CESIUM FILMS ON REFRACTORY ELECTRODES N64-30802 22-25

THIN FILM TRANSMISSION ELECTRON MICROSCOPY APPLIED TO REFRACTORY METAL PROCESSING
R-5776-1 N64-30813 22-18

ELECTRON MICROSCOPIC STUDY OF INTERACTION OF SODIUM OLEATE WITH PULP IONS & MINERAL SURFACES N64-31405 23-07

TRANSMISSION ELECTRON MICROSCOPE STUDY OF DISLOCATED CRYSTAL ARRANGEMENTS IN FATIGUED BERYLLIUM
NASA-CR-59031 N64-32894 24-18

ELECTRON MICROSCOPY AND COLORIMETRY OF ROLLED AND CAST URANIUM AND URANIUM-CARBON ALLOY SPECIMENS
NLCO-930 N64-33011 24-18

STRAIN MEASUREMENT BY ELECTRON MICROSCOPY AND X-RAY DIFFRACTION AND HIGH TEMPERATURE EFFECT OF ANNEALING ON AGGLOMERATION
NASA-CR-59215 N64-33122 24-18

ELECTRON MICROSCOPE FACILITIES AND RESEARCH PROGRAM IN MOLECULAR BIOLOGY
NASA-CR-59151 N64-33277 24-16

ELECTRON MICROSCOPY AND ELECTRON OPTICAL TECHNIQUES IN EXOBIOLOGY
NASA-CR-59251 N64-33286 24-16

ELECTRON MOBILITY
CF PARTICLE MOTION
TEMPERATURE AND CONCENTRATION DEPENDENCE OF HALL MOBILITY OF ELECTRONS IN SILICON ALLOYED WITH ARSENIC AND PHOSPHORUS
FTD-TT-63-687/1&2 N64-21953 15-25

MOTION OF INDIVIDUAL ELECTRON IN SPECIFIED FIELDS OF INTERELECTRODE SPACE OF MAGNETRON N64-27163 19-09

ELECTRON PARAMAGNETIC RESONANCE
FREE RADICALS IN RAT LIVER LIPIDS & ELECTRON PARAMAGNETIC RESONANCE SIGNALS FROM LIGHT IN CRYSTALLINE CHLOROPHYLL & ITS INFRARED SPECTRA
JPRS-18213 N64-10572 01-07

ELECTRON NUCLEAR DOUBLE RESONANCE METHOD FOR DETERMINING INTERACTION OF EUROPIUM ION IN CALCIUM FLUORIDE WITH FLUORINE NUCLEI
AFCRL-63-502 N64-11935 03-23

ELECTRON PARAMAGNETIC RESONANCE SPECTRA OF HYDRATED ELECTRON IN IRRADIATED FROZEN POTASSIUM

HYDROXIDE SOLUTION N64-12496 04-23

ELECTRON PARAMAGNETIC RESONANCE STUDY OF ALCOHOL RADICAL FORMATION BY ULTRAVIOLET RADIATION N64-12723 04-07

RELATION BETWEEN LIGHT-INDUCED ELECTRON PARAMAGNETIC RESONANCE SIGNAL AND PIGMENT P700
NASA-CR-58356 N64-15541 07-23

ELECTRON PARAMAGNETIC RESONANCE
FTD-TT-62-1086 N64-15769 07-23

ELECTRON PARAMAGNETIC RESONANCE STUDY OF RADIOCHEMICAL EFFECTS IN CRYSTALLINE AMINO ACIDS AND PROTEIN TISSUES N64-16903 09-16

ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY OF ETHANOL AND ETHER GLASSES - RADIAL FORMATION UPON IRRADIATION
TDR-269/4240-30/-4 N64-17358 09-23

ELECTRON PARAMAGNETIC RESONANCE OF PARAMAGNETIC CENTERS IN AMINO ACIDS AND PROTEINS DUE TO GAMMA RADIATION
JPRS-23983 N64-18138 10-16

ELECTRON PARAMAGNETIC RESONANCE SPECTRA OF AMINO ACID & PROTEIN UNDER ULTRAVIOLET LIGHT N64-18519 11-16

PHOTOEXCITED TRIPLET STATES OF POLYATOMIC MOLECULES BY ELECTRON PARAMAGNETIC RESONANCE AND PHOSPHORESCENCE METHODS
FTD-TT-64-183/162 N64-19771 12-25

ELECTRON MAGNETIC SPECTRA OF VANADIUM PENTOXIDE TYPE OF CATALYST N64-20661 13-23

ELECTRON RESONANCE ABSORPTION OF GAMMA IRRADIATED ALKALI METAL HYDROXIDE GLASSES
AD-433045 N64-21748 15-18

CYCLOHEXANE INTERACTION WITH METALLIC CATALYST SURFACE, CHEMICAL BOND IN ELECTRONIC PARAMAGNETIC RESONANCE SPECTRA OF MANGANESE, AND ELECTROSTATIC ADSORPTION OF IONS
JPRS-25115 N64-22738 16-07

EFFECT OF HYDROSTATIC PRESSURE ON ELECTRON PARAMAGNETIC RESONANCE SPECTRUM OF CHROMIUM AND VANADIUM IONS IN SAPPHIRE
REPT.-06029-1-T N64-27858 19-25

MECHANICAL DESTRUCTION OF GELATINS BY ELECTRON PARAMAGNETIC RESONANCE N64-28037 20-07

USE OF ELECTRON PARAMAGNETIC RESONANCE METHODS IN BIOCHEMISTRY
JPRS-26059 N64-28802 20-07

PRODUCTION, ISOLATION, AND IDENTIFICATION BY ELECTRON PARAMAGNETIC RESONANCE SPECTRUM OF OXYGEN-FLUORINE RADICALS AND COMPOUNDS
QPR-3 N64-30583 22-07

ELECTRON PARAMAGETIC RESONANCE SPECTRUM OF IRRADIATED SINGLE CRYSTALS OF ICE AT CRYOGENIC TEMPERATURES N64-30784 22-07

ELECTRON PARAMAGNETIC RESONANCE TECHNIQUES FOR TRIPLET-STATE MOLECULE OBSERVATIONS IN SENSITIZED SOLVENT DECOMPOSITION
SSD-TDR-64-97 N64-30984 22-23

ELECTRON RADIATION
RESISTANCE OF SILICON SOLAR CELLS TO PROTON AND ELECTRON RADIATION
NASA-TM-X-51189 N64-11382 02-06

ELECTRONIC MEASUREMENT OF TRANSIENT EFFECTS OF ELECTRON RADIATION ON SEMICONDUCTORS
QPR-1 N64-14504 06-09

HIGH ENERGY ELECTRON RADIATION EFFECT ON SILICON SOLAR CELLS
NASA-CR-50098 N64-16066 07-06

ELECTRON IRRADIATION AND TEMPERATURE EFFECTS ON SOLAR CELL PERFORMANCE N64-17381 09-06

ELECTRON & PROTON RADIATION EFFECTS ON TRANSMITTANCE OF GLASSES & ADHESIVES N64-17382 09-06

CARRIER LIFETIME IN ELECTRON & PROTON IRRADIATED GERMANIUM
NASA-CR-53782 N64-19349 12-25

SYNERGISTIC EFFECT OF ULTRAVIOLET AND LOW ENERGY ELECTRON RADIATION DAMAGE TO SURFACES IN VACUUM N64-19362 12-23

RADIATION DAMAGE TO SEMICONDUCTOR DEVICES BY HIGH ENERGY ELECTRON AND PROTON RADIATION
NASA-CR-56138 N64-20726 13-25

RADIATION DAMAGE TO SEMICONDUCTORS BY HIGH ENERGY ELECTRON AND PROTON RADIATION
NASA-CR-62 N64-23236 16-09

ELECTRON WAVE INTERFERENCE AND ELECTRON INTERFEROMETERS N64-29071 21-23

ENERGY DEPENDENCE OF ELECTRON DAMAGE IN SILICON N64-29157 21-06

HIGH ENERGY ELECTRON RADIATION EFFECT ON OPTICAL TRANSMISSION OF TRANSPARENT MATERIALS FOR SOLAR CELL SHIELDS N64-29162 21-06

COMPUTER PROGRAM FOR EVALUATING SPACE RADIATION HAZARDS FROM ENERGETIC PROTONS AND ELECTRONS IN VAN ALLEN BELT
NASA-CR-58293 N64-29364 21-20

CALCULATION OF ELECTRON-PRODUCED BREMSSTRAHLUNG RADIATION DOSE THROUGH SEVERAL SLABS OF SHIELD MATERIAL USING IBM 7090 FORTRAN COMPUTER PROGRAM
NASA-CR-58275 N64-29366 21-23

MONTE CARLO PROGRAM FOR EVALUATING RADIATION HAZARDS OF ELECTRONS IN SPACE
NASA-CR-58296 N64-29367 21-20

COMPUTER PROGRAM FOR RADIATION DOSE FROM ELECTRONS PENETRATING THROUGH RADIATION SHIELDING OF SPACECRAFT
NASA-CR-58297 N64-29368 21-20

SOLAR CELL CHARACTERISTICS AS FUNCTION OF ELECTRON IRRADIATION AND TEMPERATURE ON TABLE MOUNTAIN N64-32734 24-06

ELECTRON RADIATION EFFECT ON PHYSICAL PROPERTIES OF ECHO II LAMINATE
NASA-TN-D-2207 N64-32836 24-20

ELECTRON RECOMBINATION
HIGH ENTHALPY SHOCK TUNNEL FOR PRODUCING HIGH ELECTRON DENSITY PLASMA - ELECTRON RECOMBINATION STUDIES N64-19831 12-24

ELECTRON SCATTERING
HEALTH AND SAFETY PROCEDURES FOR HIGH ENERGY ELECTRON SCATTERING FROM TRITIUM GAS
LAMS-2959 N64-12113 03-16

ELASTIC SCATTERING CROSS SECTIONS FOR SLOW ELECTRONS INCIDENT ON SODIUM & POTASSIUM
NASA-CR-55166 N64-13373 04-23

ELECTRON BEAM SCATTERING PROBE OF PLASMA COLUMN OF PLASMA ION GENERATOR
RADC-TDR-63-477 N64-13786 05-24

ELECTRON STRUCTURE AND SCATTERING IN IONOSPHERE
AFCRL-63-925 N64-15084 07-12

ABSORPTION COEFFICIENTS FOR PHASE SHIFT ANALYSIS OF PION SCATTERING IN PION-PION ENERGY LEVEL
RIFP-30 N64-15772 07-23

POSITRON DEPOLARIZATION MECHANISMS EFFECT OF ELECTRON COLLISIONS AND MULTIPLE SCATTERING ON NUCLEI N64-16264 08-23

CROSS SECTIONS FOR ELASTIC NEUTRINO AND ANTI-NEUTRINO SCATTERING ON ELECTRONS AND ABSORPTION ON PROTON
LAMS-3013 N64-17239 09-23

SCATTERING OF ELECTRONS AND IONS BY DUST PARTICLES IN GAS - SQUID PROJECT
ILL-14-P N64-19637 12-24

PLASMA DIAGNOSIS BY MEANS OF PHOTON-ELECTRON SCATTERING
AFCRL-64-242 N64-21314 14-24

SUPERCONDUCTIVITY - ELECTROSTATIC REPULSION OF ELECTRONS
FTD-TT-62-1714/1&2 N64-22393 15-25

SCATTERING SPECTROMETER TO MEASURE TOTAL ABSOLUTE CROSS SECTION FOR SCATTERING ELECTRONS
NASA-CR-58052 N64-26868 18-23

LOW ENERGY ELECTRON SCATTERING FROM METASTABLE HELIUM
N64-27555 19-23

OPTICAL SCATTERING TECHNIQUE FOR PLASMA DIAGNOSTICS
AFOSR-64-1143 N64-30897 22-24

ELECTRON SOURCE
THERMIONIC OXIDE CATHODES AND NONTHERMIONIC ELECTRON SOURCES
AFCRL-63-342 N64-11465 03-23

MERCURY POOL CATHODE AS ELECTRON SOURCE FOR HIGH POWER SWITCHING ELEMENT
RADC-TDR-64-97 N64-20031 13-09

LISSAJOUS MASS SPECTROMETER AND COLD ELECTRON SOURCES FOR MASS SPECTROMETRIC APPLICATIONS
NASA-CR-56103 N64-20690 13-23

ALUMINUM AND ITS OXIDES AS SOURCES OR MODERATORS OF ELECTRONS IN SOLID PROPELLANT ROCKET EXHAUST
AD-431259 N64-22130 15-27

PERFORMANCE AND RELIABILITY OF INDIRECTLY-HEATED NICKEL MATRIX CATHODES AS ELECTRON SOURCES IN ION ENGINES
NASA-CR-54109 N64-29223 21-17

COLD ELECTRON MASS SPECTROMETRIC ION SOURCE
NASA-CR-56796 N64-29563 21-09

POSITRON-ELECTRON RATIO IN PRIMARY COSMIC RADIATION MEASURED AS FUNCTION OF ENERGY - COSMIC RAY ORIGIN
N64-33036 24-28

ELECTRON SPECTRUM
ALTITUDE OF AURORAL ABSORPTION DUE TO TWO-ELECTRON SPECTRA
NASA-TM-X-54567 N64-15865 07-12

INFLUENCE OF THERMAL VIBRATION OF ATOMS ON ELECTRON SPECTRUM OF METALS & ALLOYS
N64-17054 09-25

ELECTRON SPECTRA IN PHOTOMULTIPLIERS AND CHARGE SENSITIVE AMPLIFIER FOR LOW NOISE OPERATION USING FIELD EFFECT TRANSISTOR
QTSR-2 N64-32452 23-09

ULTRAVIOLET IRRADIATION-INDUCED CATALYTIC ACTIVITY OF MAGNESIUM OXIDE USING ELECTRON PARAMAGNETIC RESONANCE SPECTRA
NASA-RP-348 N64-34011 24-07

HEIGHT DISTRIBUTION OF AURORAL ABSORPTION PRODUCED BY ELECTRON SPECTRA
NASA-RP-359 N64-34013 24-12

ELECTRON SPIN
SA ELECTRON SPIN RESONANCE
CORRELATION BETWEEN PAIRS OF ELECTRONS AS REFINEMENT OF HARTREE-FOCK APPROXIMATION - SPIN HAMILTONIAN AND SELF-CONSISTENT FIELD THEORY
AD-431985 N64-21543 15-23

ELECTRON SPIN MAGNETIC RESONANCE IN FREE RADICALS PRODUCED BY GAMMA IRRADIATION OF HYDROCARBONS
NARF-63-4T N64-28905 20-07

IMPROVED EXPRESSIONS FOR ELECTRON MATRIX ELEMENTS OF SPIN INTERACTION
T-R-399 N64-33431 24-23

ELECTRON SPIN RESONANCE
ELECTRON SPIN RESONANCE STUDY OF FREE RADICALS PRODUCED DURING COBALT-60 GAMMA IRRADIATION OF ACETONITRILE
ASD-TDR-63-785 N64-11924 03-23

IMPURITIES IN SILICON & GERMANIUM DISCOVERED BY ELECTRON SPIN RESONANCE AND INFRARED ABSORPTION
HP-9 N64-13036 04-18

ELECTRON SPIN RESONANCE, FREQUENCY SHIFTS, AND SPIN LATTICE RELAXATION OF SOLIDS AT LOW TEMPERATURES
AD-432140 N64-16847 08-25

ELECTRON SPIN RESONANCE AND NUCLEAR MOMENTS OF RARE EARTH METALS
AFCRL-63-531 N64-17322 09-23

SPIN LATTICE INTERACTION IN RUBY WITH CHROMIUM USING ELECTRON SPIN RESONANCE SPECTRUM MEASUREMENTS
N64-18167 10-25

DEGRADATION OF POLYACENAPHTHYLENE-SODIUM COMPLEX AS SHOWN BY ELECTRON SPIN RESONANCE SPECTRUM
NASA-CR-53503 N64-19959 12-19

PENTAVALENT CHROMIUM COMPLEXES STUDIED BY MEANS OF ELECTRON-SPIN RESONANCE
JPRS-25281 N64-26256 18-07

ELECTRON SPIN RESONANCE TECHNIQUES TO DETERMINE SPATIAL DISTRIBUTION OF RADICALS PRODUCED BY IRRADIATION
N64-30783 22-07

PIGMENTS FOUND IN PHOTOSYNTHETIC MICROORGANISMS, AND ELECTRON SPIN RESONANCE SIGNALS
AD-602394 N64-32295 23-16

ELECTRON SPIN RESONANCE AND ULTRAVIOLET SPECTRA OF ION SOLVENTS
AD-449206 N64-32516 23-07

ELECTRON PARAMAGNETIC RESONANCE OF CHOROPHYLL AND OTHER PIGMENTS
JPRS-26915 N64-32749 24-25

ELECTRONIC SPIN ECHO RESONANCE PHENOMENA IN PARAMAGNETIC SYSTEMS
REPT.-3-53-64-1 N64-33643 24-25

ELECTRON TEMPERATURE
ELECTRON TEMPERATURE EFFECT IN PLASMA HEATED BY STRONG INHOMOGENEOUS ELECTRIC FIELD
AFCRL-63-377 N64-12197 03-24

EFFECT OF ELECTRON-ION COLLISIONS & HIGH ELECTRON TEMPERATURE ON CONDUCTIVITY & POWER DENSITY IN MAGNETOHYDRODYNAMIC GENERATORS
NASA-TN-D-2118 N64-15197 07-24

ELECTRON IRRADIATION AND TEMPERATURE EFFECTS ON SOLAR CELL PERFORMANCE
N64-17381 09-06

EXPLORER VIII SATELLITE MEASUREMENTS OF IONOSPHERE ION COMPOSITION, SPACECRAFT-PLASMA INTERACTIONS, & ELECTRON TEMPERATURES
NASA-TM-X-54573 N64-17602 09-12

ELECTRON HEATING IN PLASMA FLOWING ACROSS MAGNETIC FIELD
FTD-MT-63-66/1&2 N64-18759 11-24

ELECTRON TEMPERATURE AND DENSITY DETERMINATION IN HELIUM PLASMA USING THOMSON-SCATTERED RADIATION FROM RUBY LASER
N64-19066 11-24

PULSED RUBY LASER SYSTEM FOR DETERMINATION OF PLASMA ELECTRON DENSITY AND TEMPERATURE
UCRL-7712 N64-21012 14-24

SPECTROSCOPIC DETERMINATION OF ELECTRON TEMPERATURE AND PERCENTAGE IONIZATION IN HELIUM

PLASMA
NASA-RP-195 N64-22070 15-24

THERMIONIC AND NONTHERMIONIC EMISSION CATHODES WITH LOW NOISE TEMPERATURE
S-660 N64-30021 21-09

WAVE PROPAGATION MEASUREMENT TO DETERMINE ELECTRON DENSITY, COLLISION FREQUENCY, AND ELECTRON TEMPERATURE N64-30360 22-24

MONATOMIC GAS FLOW IN MAGNETOPLASMADYNAMIC GENERATORS AT CONSTANT MACH NUMBERS - EFFECT OF ELECTRON TEMPERATURE ELEVATION ON HALL GENERATOR EFFICIENCY N64-30446 22-24

SOLAR CELL CHARACTERISTICS AS FUNCTION OF ELECTRON IRRADIATION AND TEMPERATURE ON TABLE MOUNTAIN N64-32734 24-06

SPACE PROBE FOR IONOSPHERIC COMPOSITION, ELECTRON TEMPERATURE, AND POSITIVE ION DENSITY
NASA-CR-59136 N64-33223 24-15

ELECTRON TRANSFER
ELECTRON TRANSPORT THEORY AT LOW TEMPERATURES
AROD-2870-5 N64-12682 04-23

PHOTOSYNTHETIC ELECTRON TRANSPORT N64-13199 04-16

ELECTRON TRANSPORT PROPERTIES OF ZONE-REFINED, P-TYPE SILICON DURING PILE NEUTRON IRRADIATION N64-15117 07-25

ELECTRON TRANSPORT AND RELATION TO GREEN EDGE EMISSION IN CADMIUM SULFIDE CRYSTALS
E-745-P, NO. 4 N64-16503 08-25

ENERGY SPECTRA AND ANGULAR DISTRIBUTIONS OF ELECTRONS TRANSMITTED THROUGH ALUMINUM OXIDE FOILS
NASA-SP-3008 N64-18416 10-23

ELECTRON TRANSFER BY ENERGY PRODUCING BIOCHEMICAL FUEL CELL REACTIONS N64-19311 12-16

PHOTOCATALYZED DECOMPOSITION OF WATER INTO GASEOUS HYDROGEN AND OXYGEN, AND MECHANISMS OF INTRAMOLECULAR ELECTRON TRANSFER IN ORGANIC COMPOUNDS
AFCRL-64-431 N64-28576 20-07

INTERACTION OF ELECTRON DONORS AND ACCEPTORS N64-30313 22-07

ELECTRON TRANSITION
ELECTRONIC TRANSITION MOMENTS AND EFFECTS ON BAND STRENGTH - ABSORPTION OSCILLATOR STRENGTHS OF NITRIC OXIDE BETA AND GAMMA SYSTEMS N64-18493 10-23

ELECTRONIC TRANSITION MOMENT FOR SCHUMANN-RUNGE BAND SYSTEM OF OXYGEN - NUCLEAR PHYSICS
AD-434357 N64-18494 10-23

TABLES FOR DIPOLE TRANSITION PROBABILITIES IN LS-COUPLING
AFCRL-64-37 N64-18633 11-23

RELATION OF QUANTUM TRANSITION OF ELECTRON IN HYDROGEN ATOM TO PHYSICS OF PLANETARY NEBULAE N64-19332 12-05

PROBABILITY OF PHONONLESS TRANSITION IN CENTERS OF IMPURITY IN CRYSTALS
RSIC-156 N64-20459 13-25

RELATIONSHIP OF ELECTRONIC TRANSITIONS IN POLYATOMIC MOLECULES TO ABSORPTION SPECTRA
ARL-63-2481 N64-21022 14-23

HARTREE-FOCK APPROXIMATION FOR FINAL TRANSITION STATE INVOLVING EJECTION OF OUTER OR INNER SHELL ELECTRON DURING PHOTOIONIZATION OF OXYGEN
NASA-CR-66 N64-24398 17-23

QUANTUM MECHANICS - CALCULATIONS OF WAVE FUNCTIONS AND ELECTRON TRANSITION PROBABILITIES
RTD-TDR-63-3118 N64-26567 18-23

ELECTRON TUBE
SA DISCHARGE TUBE
SA FIBER OPTICS
SA KLYSTRON
SA MAGNETRON
SA THYRATRON
SA TRAVELING WAVE TUBE
SA TRIODE
SA VACUUM TUBE
CF CATHODE RAY TUBE
CF MODULATOR
CF PHOTOTUBE
CF RESONATOR
CF SEMICONDUCTOR DEVICE
GAS ANALYSIS SYSTEM FOR MEASURING KINDS AND QUANTITIES OF GASES EVOLVED BY ELECTRON TUBES
AFCRL-63-335 N64-12053 03-07

ELECTRON TUBE DEVELOPMENT FOR L-BAND CROSSED FIELD AMPLIFIERS
RADC-TDR-63-492 N64-13673 05-08

TABULATION OF PUBLISHED DATA ON SOVIET ELECTRON DEVICES
NBS-TN-186 N64-13953 05-09

OXIDE-COATED CATHODES FOR HIGH POWER LOW NOISE ELECTRON TUBE
RADC-TDR-63-462 N64-14297 06-09

ADVANCED ELECTRON DEVICE TECHNOLOGY
REPT.-77 N64-14481 06-09

SMALL SHOCK NOISE OF ELECTRON TUBES N64-14927 06-09

ELECTRON BEAM MULTIPLIER TUBE FOR HIGH SPEED POWER AMPLIFIER USING BEAM SWITCHED P-N JUNCTIONS
AD-428020 N64-19970 12-09

METAL-INSULATOR-METAL SANDWICH AS ELECTRON SOURCE FOR USE AS TUNNEL CATHODE IN ELECTRON TUBES
AD-437273 N64-20156 13-25

RANDOM DISTRIBUTION OF GAS MOLECULES IONIZED BY ELECTRONS IN ELECTRON TUBE
CU-43-64-NONR-266/59/MS N64-20546 13-23

PRODUCTION OF AUXILIARY EQUIPMENT FOR FABRICATION OF NUVISTOR TUBE
AD-600007 N64-21310 14-17

COMPATIBLE BACKWARD WAVE OSCILLATOR ELECTRON TUBES
ASD-TDR-63-7-695A N64-21752 15-08

ANALYSIS & SYNTHESIS OF ELECTRON TUBE & TRANSISTOR AMPLIFIER CIRCUITS OPERATING IN LINEAR RANGE
FTD-TT-63-1011/1&2&4 N64-22362 15-09

PERFORMANCE CHARACTERISTICS OF SECONDARY EMISSION ELECTRON TUBES N64-23534 16-09

ELECTRON BEAM WELDING AND MACHINING OF ELECTRON TUBE MATERIALS
EBR-133 N64-24095 16-09

PHYSICS OF ELECTRON EMISSION AND ELECTRON TUBE TECHNOLOGY
IR-3 N64-24865 17-25

PRODUCTION PROCESSES FOR RADIATION RESISTANT ELECTRON TUBES
QPR-2 N64-25200 17-17

PERFORMANCE AND LIFE TESTS OF DRIVER TUBES FOR L-BAND CROSSED FIELD AMPLIFIER CHAIN DEVELOPMENT
RADC-TDR-64-236 N64-25385 17-09

ULTRASONIC WELDING PROCESS AND EQUIPMENT FOR CONSTRUCTION OF ELECTRON TUBE MOUNTS
QPR-3 N64-26824 18-17

DISPERSION EQUATION FOR PLANAR MODEL OF TRANSVERSE WAVE INTERACTIONS IN M-TUBE - ELECTRON TUBE N64-27162 19-09

TRANSIENT CHANGE MECHANISMS IN OPERATING

CHARACTERISTICS OF ELECTRON TUBES IN NUCLEAR RADIATION PULSE
QTR- 7 N64-27652 19-09

NOISE AND SPURIOUS OSCILLATION IN CROSSED FIELD DEVICES
WR-1178 N64-28662 20-09

ELECTRON BEAM TECHNIQUES FOR CONSTRUCTION OF PARTS FOR ELECTRON TUBES
EBR-136 N64-28714 20-17

LIFE TESTS ON COMBINATION DEVICES INCORPORATING GAS PRETRANSMITTER-RECEIVER ELECTRON TUBE, GAS CRYSTAL PROTECTOR, AND SOLID STATE P-I-N SWITCH
QPR-5 N64-30457 22-09

EFFECT OF COLLECTOR MESH SIZE ON WRITING BEAM AND STORED LINE WIDTHS IN HIGH RESOLUTION DIRECT VIEW STORAGE TUBE N64-30645 22-09

ULTRASONIC WELDED WIRE SHOCK AND VIBRATION TESTING FOR ELECTRON TUBE MOUNTING
AD-425235 N64-32096 23-17

ADVANCED ELECTRON DEVICE TECHNOLOGY
SR-78 N64-32508 23-09

DESIGN OF HIGH POWER GRID CONTROLLED SECONDARY ELECTRON EMISSION TUBE
AD-449765 N64-32650 23-09

ELECTRONIC EQUIPMENT
PRINCIPLES OF ACCOMPLISHING LEARNING AND LOGICAL PROCESSES IN ELECTRONIC APPARATUS - CYBERNETICS
JPRS-19134 N64-10458 01-20

COMPARATIVE ELECTRONIC APPARATUS OPERATION STUDY OF CYBERNETIC MECHANISM
JPRS-18873 N64-10506 01-14

ANALOG COMPUTER METHOD OF MODELING DIFFERENTIAL EQUATIONS WITH BOUNDARY CONDITIONS AND SYNTHESIS OF ELECTRONIC MODELS FOR ALGEBRAIC OBJECTS
JPRS-19563 N64-10831 02-20

SOVIET PATENTS FOR ELECTRIC, ELECTRONIC, AND ELECTROMECHANICAL EQUIPMENT
JPRS-21953 N64-10851 02-09

AUTOMATIC ELECTRONIC INSTRUMENTS FOR MEDICAL AND PHYSIOLOGICAL MEASUREMENTS N64-11042 02-15

DESIGN, CONSTRUCTION, AND EVALUATION OF RELIABLE COMPONENTS FOR ELECTRONIC EQUIPMENT IN SATELLITE LAUNCHING AND ORBITAL ENVIRONMENT - TELSTAR N64-11081 02-06

RANDOM VIBRATION COUPLING OF ACOUSTIC EXCITATION STRUCTURE IN ELECTRONIC APPARATUS
ASD-TDR-63-205 N64-11178 02-33

ELECTRONIC APPARATUS FOR ERROR CODING SYSTEM AND FAULT DETECTING SEARCH SYSTEM
JPRS-18679 N64-11833 03-20

CALIBRATION OF ELECTRONIC COUNTER AND PULSE HEIGHT ANALYZER FOR PLOTTING ERYTHROCYTE VOLUME SPECTRA
CARI-63-8 N64-11953 03-15

NONREDUNDANT SELF-REPAIRING ELECTRONIC CIRCUITRY USING NATURAL BEHAVIOR OF CIRCUIT MATERIAL
RADC-TDR-63-175 N64-12207 03-09

ARRANGEMENT OF ELECTRONIC RANGEFINDER TO MEASURE SMALL DISTANCES
FTD-TT-62-1732/1&2 N64-12317 03-09

ANALYSIS OF VIBRATIONS OF THIN SHELL MODELS & BAR SYSTEMS WITH ELECTRONIC APPARATUS
FTD-TT-63-735/1&2&3&4 N64-12632 04-33

RECTIFIERS AND SMOOTHING FILTERS, REGULATORS & VOLTAGE STABILIZERS, AND ELECTRIC CIRCUITS
FTD-TT-63-245 N64-12633 04-06

SIMILARITY CONDITIONS OF VACUUM ELECTRONIC SYSTEMS APPLIED TO SIMULATION OF HIGH-POWER ELECTRONIC DEVICES N64-12727 04-09

HEAT CAPACITY IN PERFORATED RADIO AND ELECTRONIC APPARATUS N64-13578 05-13

ELECTRONICALLY STEERABLE ARRAY FOR SPACE VEHICLES
RADC-TDR-63-463 N64-13790 05-23

COHERENT OPTICAL BEAM ELECTRONIC SCANNING TECHNIQUES
RADC-TDR-63-450, VOL. I N64-14494 06-25

HIGH TEMPERATURE FREQUENCY CONTROL STUDY OF DELAY LINE OSCILLATORS, TUNING FORK, AND PIEZOMAGNETIC SYSTEMS FOR ELECTRONIC CIRCUITS
ASD-TDR-63-398 N64-14502 06-09

DOSIMETRIC METHODS IN MICROWAVE AND DECIMETER-WAVE THERAPY - HOUSINGS FOR ELECTRONIC EQUIPMENT
JPRS-23167 N64-14920 06-10

VARIABLE AREA MAGNETOGRAM ANALYZER - SCANNER, DIGITIZER, ADDER, DURATION-MODULATION CONVERTER, SUBTRACTOR, AVERAGER, AND PUNCHED CARD OUTPUT
AFCRL-63-939/2/ N64-15054 07-09

AUTOMATIC ELECTRONIC MULTIPOINT INSTRUMENT FOR CONTROLLING AND REGULATING TEMPERATURE
FTD-TT-63-430/1&2 N64-16420 08-15

EFFECTS OF PULSED GAMMA RADIATION ON DYNAMIC ELECTRONIC COMPONENTS
GA-4062 N64-16646 08-26

LOW COST HIGH RESOLUTION PROGRAMMABLE MASKING FOR FUNCTIONAL ELECTRONIC BLOCKS
NCR-28-11 N64-16967 09-20

TEST EQUIPMENT TO MEASURE DEGRADATION OF ELECTRONIC DEVICES FOR LIFE PREDICTION
WP-2643-7 N64-19856 12-15

DESCRIPTION AND CIRCUIT DIAGRAMS OF ELECTRONIC COMPONENTS OF L BAND RADIOMETER
ACF-AR-1679 N64-20104 13-15

DESIGNS FOR MICROMINIATURIZED ELECTRONIC EQUIPMENT TO MINIMIZE COSTS
QR-1 N64-20130 13-09

REACTOR RADIATION EFFECTS ON PERFORMANCE CHARACTERISTICS OF ELECTRONIC COMPONENTS OF FLIGHT EQUIPMENT
SID-64-3 N64-20901 14-09

FAILURE MODES IN ELECTRONIC EQUIPMENT AND CORRECTIVE MEASURES FOR RELIABILITY IMPROVEMENT N64-20999 14-09

FABRICATION OF ELECTRONIC PARTS FROM BERYLLIUM OXIDE POWDER AND DETERMINATION OF PHYSICAL PROPERTIES OF TEST PIECES
AD-600126 N64-21027 14-19

MAINTENANCE OF ELECTRONIC EQUIPMENT - FORECAST PROJECT
HUMRRO-TR-83 N64-21337 14-09

STUDY OF SECONDARY PHENOMENA FOR CHECKOUT OF ELECTRONIC COMPONENTS AND CIRCUITRY
SRL-491-TDR-1 N64-21358 14-09

FAILURE RATE AND OPERATING LIFE DATA ON ELECTRONIC COMPONENTS, EQUIPMENT, AND SYSTEMS FOR RELIABILITY PREDICTION
D2-22571 N64-21376 14-17

PROCEDURE FOR PREDICTION OF TIME AND MANPOWER REQUIRED FOR MAINTENANCE OF ELECTRONIC EQUIPMENT
REPT.-64-34 N64-22095 15-14

CIRCUIT DIAGRAMS AND ELECTRONIC EQUIPMENT CHARACTERISTICS
ISS-63/25 N64-22414 15-09

MASKING FOR FUNCTIONAL ELECTRONIC BLOCKS - PHOTOGRAPHIC APPARATUS
NCR-28-21 N64-22512 15-09

GROUNDING SYSTEMS FOR ELECTRONIC EQUIPMENT HOUSING N64-22816 16-09

PULSED NUCLEAR RADIATION INDUCED TRANSIENTS IN ELECTRONICS PARTS AND MATERIALS
USAELRDL-TR-2299 N64-22899 16-09

ELECTRONIC AND MECHANICAL COMPONENTS FOR CESIUM BEAM TUBE
IR-7-967 /1/ N64-23108 16-09

RELIABILITY OF PASSIVE COMPONENTS OF ELECTRONIC EQUIPMENT
FTD-TT-62-1820/1&2&4 N64-23294 16-08

MEDICAL ELECTRONIC APPARATUS TO AID IN RECORDING DIAGNOSIS N64-23444 16-16

RADIO, COMPUTER, GYROSCOPIC, NAVIGATIONAL, OPTICAL, AND THERMAL INSTRUMENTATION
JPRS-23033 N64-23532 16-04

APPLICATION OF PHOTOMETRY TO ELECTRONIC DISPLAY SYSTEM
AFCRL-64-271 N64-23877 16-09

MICROMINIATURIZATION OF ELECTRONIC EQUIPMENT - ANNOTATED BIBLIOGRAPHY
SB-62-67 N64-23883 16-09

PROPERTIES OF COMBINATIONS OF NONLINEAR PARAMETRIC ELEMENTS
AFCRL-64-305 N64-24189 16-09

ULTRALOW DRAIN LOCAL OSCILLATORS AND MIXERS - ELECTRONIC EQUIPMENT
USAELRDL-TR-2438 N64-24216 16-09

RELIABILITY ANALYSIS OF ELECTRONIC CIRCUITS N64-24372 17-09

ELECTRONIC APPARATUS, RECORDING INSTRUMENTS & ELECTROMECHANICAL DEVICES
JPRS-24515 N64-24506 17-09

BALANCING AMPLIFIER FOR ELECTRONIC RECORDING INSTRUMENT N64-24512 17-09

VACUUM ARC FURNACES & ELECTRONIC EQUIPMENT FOR MELTING
JPRS-24753 N64-24576 17-10

ELECTRONIC MELTING UNITS FOR VACUUM ARC FURNACE N64-24578 17-17

TRILATERATION TECHNIQUES FOR RAPID POSITIONING OF MOBILE ELECTRONIC EQUIPMENT
RADC-TDR-64-131 N64-24784 17-09

SYSTEMS ENGINEERING AND ITS ROLE IN ELECTRONIC RESEARCH N64-24852 17-01

GEOPHYSICAL STUDIES DURING INTERNATIONAL QUIET SUN YEARS - METEOROLOGY, GEOMAGNETISM, IONOSPHERE, AURORA, RADIO ASTRONOMY, AND COSMIC RADIATION ELECTRONIC EQUIPMENT INTERFERENCE CHARACTERISTICS N64-24870 17-05

ELECTRONIC EQUIPMENT INTERFERENCE CHARACTERISTICS
REPT.-25 N64-24871 17-09

CONTROLLED CONTAMINATION OF SEALED ELECTRONIC COMPONENTS FOR STUDY OF SPACECRAFT STERILIZATION PROCEDURES
SAM-TDR-63-73 N64-25040 17-16

AIRBORNE ELECTRONIC EQUIPMENT FOR X-20A AIRCRAFT COMMUNICATIONS AND TRACKING SUBSYSTEM
CR-64-408-34.2-1 N64-25129 17-08

SPACE ENVIRONMENT EFFECTS ON ORGANIC MATERIALS, MECHANICAL DEVICES, AND ELECTRONIC EQUIPMENT
RSIC-1511 N64-25218 17-29

RADIO FREQUENCY ELECTRONIC BLOCK MANUFACTURING
ASD-7-861-4 N64-25632 17-09

AIRBORNE ULTRAHIGH FREQUENCY TRANSMITTER FOR FALLING SPHERE EXPERIMENT
AFCRL-63-922 N64-25730 17-09

SYSTEMS ANALYSIS AND TRAINING METHODS FOR MAINTENANCE OF ELECTRONIC WEAPON SYSTEM
RR-13 N64-25800 17-09

ELECTRONIC EQUIPMENT - PNEUMOAUTOMATIC RELAY, AMPLIFIER, RESISTANCE, AND CAPACITOR
JPRS-24950 N64-25854 18-17

ULTRASONIC & ELECTRONIC DEVICES AND APPARATUS FOR MEDICAL RESEARCH
JPRS-25533 N64-26259 18-15

METAL INSULATION, FINISHING, PLATING, AND HERMETIC SEALING PROCESSES IN PRODUCTION OF RADIO AND ALLIED ELECTRONIC EQUIPMENT
OTS-61-31204 N64-26352 18-08

ELECTRONIC TRIP APPARATUS FOR MICRO-MICROAMMETERS
DP-897 N64-26625 18-09

ENGINEERING OF ACCELERATOR STRUCTURES - KLYSTRON, AND MICROWAVE ELECTRONIC DEVICES
SLAC-30 N64-26792 18-10

ELECTRONIC PARTS AND COMPONENT RELIABILITY FOR SYNCOM I SATELLITE
NASA-TM-X-55012 N64-27249 19-09

RELIABILITY DATA ON PRESENTLY USED ELECTRONIC CIRCUIT TYPES
RADC-TDR-64-46 N64-27455 19-09

SIGNAL GENERATION AND AMPLIFICATION IN ELECTRONIC CIRCUIT
AFCRL-64-514 N64-27496 19-09

DETERMINATION OF MAGNETIC PROPERTIES OF ELECTRONIC COMPONENTS OF SPACECRAFTS
NASA-CR-56452 N64-27899 20-09

JOINING TECHNIQUES FOR CONNECTION IN COMPLEX MICROELECTRONIC SYSTEMS N64-28673 20-09

MICROMINIATURIZATION AND CONTINUING NEED FOR CLASSICAL ELECTRIC COMPONENTS
JPRS-16075 N64-28776 20-09

ELECTRONIC PERFORMANCE CHARACTERISTICS OF S-52 PROTOTYPE SPACECRAFT IN THERMAL VACUUM
NASA-TM-X-55039 N64-28929 20-32

ELECTRONIC AND PHOTOGRAPHIC EQUIPMENT FOR CALIBRATION OF MINITRACK STATIONS
TR-48 N64-29248 21-08

PNEUMATIC LOGIC ELEMENTS IN RELATION TO ELECTRONIC COUNTERPARTS FOR OPERATION OF COMPUTERS AT LOW SPEEDS
NASA-CR-58360 N64-29569 21-09

APPLICATION OF ELECTRONIC EQUIPMENT TO AEROSPACE MEDICINE AND BIOLOGY - RADIOTELEMETRY
JPRS-24682 N64-30234 22-16

ELECTRONIC EQUIPMENT FOR CARDIOVASCULAR DIAGNOSIS N64-30239 22-16

ELECTRONIC EQUIPMENT FOR MEDICAL RESEARCH AND TREATMENT
JPRS-25587 N64-30391 22-16

ELECTRONIC EQUIPMENT FOR RHYTHMIC STIMULATION OF HEART N64-30392 22-16

ELECTRONIC EQUIPMENT FOR MEASURING PULSE WAVE PROPAGATION VELOCITIES IN ARTERIES N64-30393 22-16

PULSED NUCLEAR RADIATION EFFECTS ON ELECTRONIC CIRCUITS AND DEVICES FOR CIRCUIT RESPONSE PREDICTIONS
WL-TDR-64-60, VOL. II N64-30680 22-09

MAINTAINABILITY PREDICTION FOR ELECTRONIC EQUIPMENT
TR-40 N64-30687 22-10

THEORY OF CASCADE SYNTHESIS FOR LUMPED, PASSIVE N-PORTS
RADC-TDR-64-332 N64-30942 22-09

OPTIMUM PARAMETERS AND OPERATION MODES FOR AIRBORNE WEATHER-RECONNAISSANCE RADAR AND ANALYSIS OF RADAR ECHO MOTION ABOUT HURRICANE
AD-421622 N64-31256 22-21

BIBLIOGRAPHY ON EFFECTS OF VAN ALLEN RADIATION BELTS ON ELECTRONIC MATERIALS
PDC-SEARCH-63-003 N64-32057 23-28

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AD-448760 N64-32600 23-23

PRECISION POSITION DETERMINATION BY DISTANCE MEASURING TECHNIQUES USING ELECTRONIC METHODS AND OSCILLATORS
REPT.-2900-453-T N64-32674 23-23

EVALUATION OF FASTENERS AND FASTENING TECHNIQUES UNDER STATIC LOADING CONDITIONS FOR ELECTRONIC EQUIPMENT
REPT.-3 N64-32687 23-17

REDUNDANT CIRCUITRY FOR IMPROVED RELIABILITY OF ELECTRONIC EQUIPMENT
NASA-CR-128 N64-32832 24-17

ADVANCED ELECTRONIC CONCEPTS IN LAUNCH VEHICLE OPERATIONS - LIGHT BEAMS AS INFORMATION CARRIERS
NASA-TM-X-54747 N64-33225 24-10

ELECTRONIC EQUIPMENT AND TWO-BODY CORRELATION FUNCTIONS FOR PLASMA CONFINEMENT APPARATUS
SIT-P126 N64-33639 24-10

ELECTRONIC EQUIPMENT TESTING
RELIABILITY AND FAILURE OF DIGITAL COMPUTER AND COMPONENTS
SSD-TDR-63-150 N64-12183 03-20

EFFECTS OF NUCLEAR RADIATION ON ELECTRONIC COMPONENTS AND OPERATING CIRCUITS - MICROWAVE DEVICES
AD-423158 N64-12300 03-23

EFFECT OF COMBINED ENVIRONMENTAL TESTING OF ELECTRONIC EQUIPMENT
ASTEV-3-2 N64-14813 06-09

SCREENING PROGRAM FOR IMPROVING RELIABILITY OF SPACE ELECTRONIC EQUIPMENT N64-16158 08-09

OPTIMUM VIBRATION TEST SPECIFICATION FOR AEROSPACE ELECTRONIC EQUIPMENT N64-20260 13-33

PHYSICS OF FAILURE IN ELECTRONIC COMPONENTS AND EQUIPMENT N64-20967 14-09

METHODOLOGY AND SCOPE OF RELIABILITY PHYSICS PROGRAM FOR ELECTRONIC COMPONENTS
N64-20968 14-17

ANALYSIS OF ACCELERATED AGING TESTS FOR ELECTRONIC COMPONENT RELIABILITY N64-20969 14-09

RADIATION EFFECT ON GUIDED MISSILE ELECTRONIC EQUIPMENT
FR-64-17-41 N64-27697 19-28

ELECTRONIC INSPECTION DEVICE
ELECTRONIC INSPECTION DEVICE TO MEASURE AND CONTROL SPEED OF SHEET METAL ROLLING
N64-23087 16-15

ELECTRONIC LEVEL
SA FORBIDDEN BAND
CHEMICAL ACTIVATION - ACTIVATED MOLECULES IN ELECTRONIC LEVELS OF EXCITED AND GROUND STATES
TR-1 N64-29545 21-07

ELECTRONIC MODULE
POWER SUPPLY MODULES-VOLTAGE REGULATORS AND DC CONVERTERS - DESIGN AND FABRICATION
NADC-EL-6322 N64-18587 11-06

ELECTRON BEAM WELDING AND HERMETIC SEALING OF MICROMINIATURIZED ELECTRONIC MODULES
SCL-7686 N64-21119 14-17

ANNOTATED BIBLIOGRAPHY ON PRINTED CIRCUITS AND WELDED ELECTRONIC MODULES
REPT.-3-35-64-2 N64-21148 14-09

LOW COST MICROMODULE DESIGN STUDY
AD-439238 N64-21313 14-09

INTERFERENCE REDUCTION TECHNIQUES FOR OPTIMIZATION OF EMISSION SPECTRUM FOR NONLINEAR ELECTRONIC MODULE
REPT.-64-SIMAR-27/2 N64-22213 15-09

INTERCONNECTIVE WIRE WELDING IN ELECTRONIC MODULES
NASA-TN-D-2321 N64-23235 16-09

RADIO FREQUENCY ELECTRONIC BLOCK MANUFACTURING
ASD-7-861-4 N64-25632 17-09

MICROMODULAR DESIGN AND CONSTRUCTION OF ELECTRIC CIRCUITS - STANDARDIZED DIMENSIONS
QR-21 N64-32172 23-09

ADVANCED FABRICATION PROCESSES FOR ELECTRONIC MODULES IN MICROELECTRONICS
IER-03-64-38 N64-33642 24-09

ELECTRONIC PACKAGING
DESIGN AND CONSTRUCTION OF TELSTAR SATELLITE ELECTRONICS PACKAGE FOR RELIABILITY
N64-11084 02-09

CHASSIS FOR GROUND SUPPORT EQUIPMENT - ELECTRONIC PACKAGING
NASA-CR-53015 N64-13265 04-17

ANALOG COMPUTER SOLUTION TO ELECTRONIC PACKAGES AND AIRCRAFT STRUCTURAL PROBLEMS
N64-18552 11-23

DYNAMIC RESPONSE OF SPACECRAFT ELECTRONIC PACKAGING TO HYDRAULIC SHOCKS N64-18553 11-33

FLIP-FLOP DESIGN, PACKAGING, AND PERFORMANCE WITH VARIATIONS OF POWER SUPPLY FOR INTEGRATED MICROPOWER CIRCUITS
NASA-CR-53511 N64-19981 12-09

OXIDATION, ETCHING, AND DIFFUSION PROCESSES FOR FUNCTIONAL ELECTRONIC BLOCKS AND OTHER PLANAR SEMICONDUCTOR DEVICES
ASD-TDR-8-133-3 N64-26502 18-17

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SB-63-51 N64-26821 18-09

DESIGN, FABRICATION, AND PACKAGING OF PULSE AMPLIFIER INTEGRATED MICROCIRCUIT
IR-11 N64-27195 19-09

PRODUCTION METHODS FOR HERMETIC PACKAGING AND INTERCONNECTING OF MICROCIRCUITS
HSER-2884 N64-29819 21-17

TEMPERATURE LIMITATIONS AND ELECTRONIC EQUIPMENT PACKAGING FOR LUNAR MOBILE LABORATORY
NASA-CR-61019 N64-31719 23-09

ELECTRONIC PHOTOGRAPHY
S ASTRONOMICAL PHOTOGRAPHY
S OPTICAL MEASUREMENT

ELECTRONIC STRUCTURE
X-RAY ABSORPTION & EMISSION SPECTRA AND ELECTRONIC STRUCTURE OF ATOMS OF SUPERCONDUCTING COMPOUNDS
JPRS-22588 N64-12148 03-23

QUANTUM THEORY OF MANY-PARTICLE SYSTEMS AND APPLICATION TO ELECTRONIC STRUCTURE OF MATTER
ARL-63-246 N64-16434 08-23

COMPUTER PROGRAMS FOR CALCULATING RELATIVE INTENSITIES IN VIBRATIONAL STRUCTURE OF ELECTRONIC TRANSITIONS
UCRL-10925 N64-17292 09-23

ELECTRONIC STRUCTURE OF FERROMAGNETIC AND

ANTIFERROMAGNETIC METAL AND ALLOYS
AMRA-TR-63-29 N64-18573 11-23

ELECTRONIC STRUCTURES OF NITROGEN FLUORIDES
HRC-64-1 N64-18628 11-07

MATHEMATICAL ANALYSIS OF THERMODYNAMIC EQUATIONS FOR IONIZED GAS TEMPERATURE EFFECT ON ATOMIC ELECTRONIC STRUCTURE N64-23600 16-11

ELECTRONIC STRUCTURE AND SPECTRAL BEHAVIOR OF URANYL ION
WR-AF-4 N64-24071 16-23

ELECTRONIC STRUCTURE AND ALLOYING CHARACTERISTICS OF TRANSITION METALS N64-27577 19-18

RELATIONSHIP BETWEEN THERMIONIC WORK FUNCTION OF REFRACTORY INTERMETALLIC COMPOUNDS AND THEIR ELECTRONIC AND CRYSTAL STRUCTURES
NASA-CR-58564 N64-29690 21-25

ELECTRONIC STRUCTURE OF DIIODO DECABORANE
D1-82-0352 N64-30637 22-23

ELECTRONIC STRUCTURES OF POLYATOMIC MOLECULES BY QUANTUM MECHANICS
AFCRL-64-458 N64-31134 22-25

ELECTRONIC SWITCH
P-I-N DIODE PERFORMANCE CHARACTERISTICS FOR USE AS BROADBAND HIGH POWER SWITCH
AD-433094 N64-21042 14-09

HIGH POWER MULTIPACTOR DUPLEXES AND SWITCHES
RADC-TDR-64-165 N64-25236 17-09

SILICON SWITCH FOR REDUCTION OF RADIO-FREQUENCY INTERFERENCE IN WEAPON SYSTEM CIRCUITRY
NOLTR-64-43 N64-26563 18-09

HIGH POWER CAPABILITY OF BROADBAND P-I-N DIODE SWITCH
QR-3 N64-26741 18-09

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AD-600001 N64-28250 20-09

ELECTRONIC SWITCHES AND CIRCUITS FOR ANALOG COMPUTATION
NASA-CR-58241 N64-29571 21-08

EFFICIENT MULTICHANNEL AIR GAP SWITCHES
USAEL-TR-2484 N64-32499 23-09

ELECTRONIC DATA SWITCHING INSTALLATION WITH REAL TIME COMMUNICATION
NASA-TM-X-55071 N64-33077 24-10

ELECTRONICS
SA MEDICAL ELECTRONICS
SA MICROELECTRONICS
SA RADIO ELECTRONICS
CF PHYSICS /GEN/
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JPRS-17497 N64-10682 02-16

RATE OF DEVELOPMENT OF USSR ELECTRONICS INDUSTRY
JPRS-18816 N64-11214 02-09

STATUS OF ELECTRONIC, AERONAUTICAL, & PHYSICAL RESEARCH N64-11364 02-01

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AVIONICS AND ELECTRONICS IN AERONAUTICS N64-11881 03-12

MASER APPLICATIONS IN ELECTRONIC SYSTEMS - AMPLIFIERS N64-12566 04-25

INFORMATION RETRIEVAL SYSTEM FOR ELECTRICAL AND ELECTRONIC PROPERTIES OF MATERIALS
ASD-TDR-62-539, PT. II N64-12637 04-01

ELECTRONICS - RADIO ENGINEERING & EQUIPMENT
JPRS-22132 N64-12726 04-01

GYROSCOPIC, ELECTRONIC, AUTOMATIC, OPTIC, AND THERMAL INSTRUMENTS
JPRS-22479 N64-13565 05-01

APPROXIMATE DIFFERENTIATION OF CONTINUOUS PULSE FREQUENCY DATA TRANSMISSION BY ELECTRONIC CIRCUIT N64-13569 05-08

MICROWAVE AND QUANTUM ELECTRONICS
REPT.-05000-8-S N64-13892 05-09

DATA PROCESSING OF INFORMATION ON ELECTRICAL AND ELECTRONIC PROPERTIES OF ZINC SULFIDE
DS-135 N64-13957 05-19

ELECTRICAL & ELECTRONIC PROPERTIES OF CADMIUM SELENIDE
DS-134 N64-14040 05-19

ELECTRONIC & ELECTRIC PROPERTIES OF ZINC OXIDE
DS-133 N64-14094 05-19

NUCLEAR PHYSICS AND ELECTRONICS
PR-P-59 N64-14671 06-23

TRANSISTOR ELECTRONICS
AD-429421 N64-15096 07-09

SPLITTING METHODS FOR MULTIPORT VOLTAGE TRANSFER FUNCTIONS
AFCRL-63-592 N64-15806 07-09

THEORY AND OPERATION OF MAGNETRON AND PLANOTRON - HIGH POWER ELECTRONICS
FTD-TT-63-253/1&2 N64-16039 07-09

TELEMETRY, COMMUNICATIONS, GUIDANCE, TRACKING, AND ELECTRONICS FOR SPACE APPLICATIONS N64-16151 08-08

MATHEMATICAL MODEL DESCRIBING LIFE CYCLE AND RELIABILITY OF ELECTRONIC SYSTEMS N64-18345 10-20

ANNOTATED BIBLIOGRAPHY ON DIGITAL COMPUTER METHODS OF ELECTRICAL AND ELECTRONIC SYSTEMS DESIGN
SB-63-65 N64-20895 14-09

NASA PROGRAM ON COMMUNICATIONS AND ELECTRONICS N64-21050 14-08

PHYSICS, ELECTRONICS, & MEASUREMENT STANDARDS, CHEMISTRY & PROPERTIES OF MATERIALS, APPLIED MATHEMATICS, RADIO PROPAGATION, AND OTHER RESEARCH
NBS-MISC.-PUBL.-255 N64-21512 15-23

BIOELECTRONICS - HALL EFFECT AND ELECTROMAGNETIC EFFECTS ON NERVOUS SYSTEM
REPT.-63-27 N64-21680 15-16

ELECTRONICS AND INDUSTRIAL SAFETY
FTD-TT-63-1200/1&4 N64-22160 15-16

ELECTROMAGNETIC COMPATIBILITY BY CONTROL OF WIRING INSTALLATION IN AIRCRAFT N64-22818 16-09

ADVANCED RECEIVER MODEL SYSTEM FOR HANDLING COMPLEX INTERFERENCE PROBLEMS WITH FAST REACTION TIME N64-22821 16-09

ELECTRONIC INDICATOR FOR SIGNAL TO NOISE RATIO PULSED SYSTEM RECEIVER VIDEO OUTPUT N64-22824 16-09

INTERFERENCE FACILITY FOR ELECTROMAGNETIC COMPATIBILITY TESTING N64-22831 16-09

ELECTRONICALLY TUNABLE CONVERTERS IN MILLIMETER WAVE RANGE
NASA-CR-56507 N64-23524 16-09

ELECTRONIC CONFIGURATION AND BEHAVIOR OF NITROGEN FLUORIDE GROUP
NRC-64-3 N64-24942 17-09

ADVANCED COMPONENT AND SYSTEM TEST TABLE AND ASSOCIATED ELECTRONICS
NPR-30 N64-25171 17-15

HIGH POWER GASEOUS ELECTRONICS
QPR-5 N64-25819 17-09

MEASUREMENT OF DIAMETER OF ELECTRONIC WAKE OF HYPERSONIC PELLETS
TR-342 N64-25992 18-24

MICROPOWER ELECTRONICS
AGARDOGRAPH-77 N64-26439 18-09

CIRCUIT BOARD LAYOUTS AND ELECTRONIC AND LOGIC DRAWINGS FOR CIRCUITS IN VOCODER
M818-A63 N64-26715 18-09

CYBERNETICS AND DEVELOPMENT OF COMPUTERS
JPRS-25714 N64-27057 19-14

HIGH SPEED BISTABLE CIRCUITS, MOTION OF BODY SUPPORTED ON VIBRATING CONICAL SURFACE, AND OPTIMIZING SYSTEMS WITH HIGH INTERFERENCE
JPRS-25764 N64-27058 19-09

SUMMARIES OF CONFERENCE REPORTS ON PHYSICS OF CATHODE ELECTRONICS
JPRS-25811 N64-27061 19-25

CYBERNETICS - ELECTRONIC MACHINES APPLIED TO INDUSTRIAL PROBLEMS
JPRS-25927 N64-27266 19-17

MICROWAVE DEVICES AND QUANTUM ELECTRONICS
REPT.-05772-4-P N64-27625 19-09

QUANTUM MEASUREMENT OF TIME, ELECTRONICS, CLIMATOLOGY, HYDROLOGY, AND MIXING EFFECT OF DISPERSION BETWEEN LIQUIDS
JPRS-26128 N64-28433 20-01

EPITAXIAL DEPOSITION FABRICATION OF SEMICONDUCTOR DIODES FOR ELECTRONIC TUNING
R-182.1 N64-29390 21-25

RADIATION EFFECTS ON ELECTRONICS, POLYMERIC MATERIALS, AND LUBRICANTS
REIC-34 N64-29878 21-25

PRECISION OSCILLATORS FOR MILITARY ELECTRONIC TIMERS - RELATIVE PERFORMANCE OF VARIOUS TYPES AS TO ACCURACY, STABILITY, AND RUGGEDNESS
HDL-TR-1235 N64-30114 21-09

HIGH POWER GASEOUS ELECTRONICS - THIN METALLIC FILMS TO CONTROL GAS CLEAN-UP
REPT.-6 N64-30574 22-09

ELECTRONICS RESEARCH BRIEFS
AD-602949 N64-30735 22-09

ELECTRONIC RESEARCH PROJECTS - CIRCUITS, PLASMAS, RADIATION & PROPAGATION, ELECTRONICS, ELECTRON STREAMS & INTERACTIONS, COMPUTER THEORY & PROGRAMMING, AND SYSTEMS
AD-420222 N64-31179 22-09

AUTO-INSTRUCTIONAL PROGRAM OF FIRST WEEK OF BASIC ELECTRONICS COURSE
AD-601681 N64-31702 23-09

ELECTRONIC TRACKING ERRORS GENERATED BY REENTRY AND FLAME PLASMA EFFECTS
TM-3865 N64-31891 23-08

PARISER-PARR-POPLE METHOD OF COMPUTING MOLECULAR ELECTRONIC WAVE FUNCTIONS
ARL-64-203 N64-32667 23-07

RESEARCH IN MICROWAVE AND QUANTUM ELECTRONICS - PLASMA AND LOW NOISE TECHNIQUES
AL-TDR-64-158 N64-32672 23-24

MICROWAVE RESEARCH IN ELECTROMAGNETICS, PLASMA ELECTROPHYSICS & ELECTRONICS, SOLID STATE & MATERIALS, MICROWAVE CIRCUITS, NETWORK THEORY, AND SYSTEMS, COMMUNICATIONS, & CONTROL
R-452.25-64 N64-33415 24-09

ELECTROPHORESIS
SA COLLOID
ELECTROPHORETIC BEHAVIOR OF FIXED RAT RED BLOOD CELLS
UCRL-10898 N64-22855 16-16

ELECTROPHORESIS CONCENTRATION OF SEPARATED SERUM PROTEIN FRACTIONS N64-22856 16-16

ELECTROPHORESIS PREPARATION AND TEST OF CHLOROPLAST FRACTIONS FOR HILL REACTION ACTIVITY
NASA-CR-58340 N64-28935 20-16

PREPARATION, SEDIMENTATION, ELECTROPHORETIC PROPERTIES, AMINO ACID COMPOSITION, IMMUNOLOGY, AND CRYSTALLIZATION OF TRIOSE PHOSPHATE DEHYDROGENASE N64-32048 23-16

ELECTROPHYSIOLOGY
BINAURAL INTERACTION IN ACCESSORY SUPERIOR OLIVARY NUCLEUS OF CAT - ELECTROPHYSIOLOGICAL STUDY OF SINGLE NEURONS
MIT-TR-416 N64-18062 10-16

ELECTROPHYSIOLOGICAL EFFECT OF SHORT-TERM SENSORY DEPRIVATION
TR-9 N64-26053 18-14

PHYSIOLOGICAL STUDIES - COMPUTER PROCESSING OF DATA, BIOINSTRUMENTATION, EFFECTS OF HYPOXIA, AND ELECTROPHYSIOLOGY
JPRS-26444 N64-31536 23-16

VARIABILITY OF PRIMARY EVOKED POTENTIALS RECORDED UNIPOLARLY FROM CORTICAL SURFACE OF CAT IN STATE OF NARCOSIS - ELECTROPHYSIOLOGY N64-31541 23-16

ORIGIN OF POSITIVE COMPONENT OF EVOKED POTENTIAL OF TECTUM OPTICUM OF TOAD - ELECTROPHYSIOLOGY N64-31542 23-16

ELECTRODE ATTACHMENT TECHNIQUES FOR EXPERIMENTS IN ELECTROPHYSIOLOGY OF NERVOUS SYSTEM N64-31546 23-16

ELECTROPHYSIOLOGICAL STUDY OF VESTIBULAR APPARATUS MECHANISMS AND INTERCONNECTIONS BETWEEN CANALS AND NUCLEI IN MEDULLA OBLONGATA OF CATS
NASA-TT-F-9147 N64-33408 24-16

DIFFERENTIAL AMPLIFIER CIRCUITS IN ELECTROPHYSIOLOGICAL RESEARCH
FTD-TT-63-1196/1&2&4 N64-33520 24-09

ELECTROPLATING
CF COATING
HEAT TREATMENT OF ELECTRODEPOSITED CHROMIUM BASE CERMET COATINGS FOR SOLID PROPELLANT ROCKET NOZZLE
AD-407973 N64-11027 02-26

BIBLIOGRAPHY OF IRON ELECTROPLATING AND PRODUCTION METHODS FOR DEPOSITION OF IRON LAYERS
SB-63-55 N64-15979 07-18

ELECTRODEPOSITION TECHNIQUES FOR WIND-TUNNEL MODELS
A479 N64-17137 09-17

ELECTROPLATING TECHNIQUES
A490 N64-17148 09-17

STRIPPING AND REPLATING METHODS FOR NICKEL ELECTROPLATED URANIUM
RFP-342 N64-17274 09-09

MISSILE FAILURE DUE TO IMPURITIES IN ELECTROPLATED COMPONENTS - VACUUM ULTRASONIC TREATMENT TO INCREASE RELIABILITY N64-20994 14-30

COPPER PLATING OF STEEL, ZINC ALLOY, AND ALUMINUM FROM PYROPHOSPHATE ELECTROLYTES N64-31424 23-17

HYDROGEN EMBRITTLEMENT FROM CORROSION, CATHODIC PROTECTION, ELECTROPLATING AND PERMEATION RATES
AD-446525 N64-33713 24-07

ELECTROPLETHYSMOGRAPHY
RECORDING ELECTROPLETHYSMOGRAMS OF PARTS AND ORGANS OF HUMAN BODY
NASA-TT-F-203 N64-20194 13-16

ELECTROREFINING
PREPARATION OF HIGH PURITY RHENIUM BY VACUUM HEATING AND ELECTROLYTIC METHODS
JPRS-17539 N64-10562 01-18

ELECTROLYSIS OF FLUORINE COMPOUND-BEARING MOLTEN MEDIA FOR PRODUCTION OF REFRACTORY RARE METALS
JPRS-17729 N64-10715 02-18

ELECTROLYTIC & AUTOCLAVE PRODUCTION OF RHENIUM POWDER
JPRS-17937 N64-10727 02-18

PRODUCTION OF RHENIUM POWDER BY ELECTROLYSIS USING ALTERNATING CURRENT N64-10729 02-19

ATMOSPHERIC REFRACTIVITY COMPUTATION USING SKEW TEMPERATURE-LOG PRESSURE DIAGRAM
AD-422637 N64-12244 03-21

TUNGSTEN BASE ALLOYS PREPARED BY VACUUM-ARC-CASTING PROCESS
AD-424267 N64-12245 03-18

PLUTONIUM ELECTROREFINING PLANT - OPERATING INSTRUCTIONS, PROCEDURES, AND EQUIPMENT
LA-2981 N64-13588 05-17

CADMIUM REFINING BY AMALGAM ELECTROLYSIS
BM-RI-6352 N64-14244 06-17

PREPARATION OF PURE CERIUM METAL FROM CERIUM OXIDE BY ELECTROLYTIC PROCESS USING FLUORIDE BATH
BM-RI-6362 N64-14245 06-17

ELECTROREFINING PROCESSES FOR RECOVERY OF PLUTONIUM FROM PLUTONIUM-IRON ALLOYS
LA-3029 N64-19026 11-17

TRANSFER OF ALLOYING METALS DURING ELECTROREFINING OF TITANIUM IN MOLTEN-SALT ELECTROLYTE
BM-RI-6437 N64-19171 11-17

TITANIUM ELECTROREFINING CELLS USING SODIUM CHLORIDE-TITANIUM CHLORIDE ELECTROLYTES
BM-RI-6432 N64-19226 11-17

ELECTROREFINING OF BERYLLIUM CHIPS IN PROTOTYPE CELL
BM-RI-6489 N64-26463 18-18

NIOBIUM METAL ELECTROREFINED IN FUSED SALT ELECTROLYTE
BM-RI-6506 N64-28453 20-18

MOLTEN-SALT ELECTROREFINING OF URANIUM
BM-RI-6507 N64-28500 20-07

TWO THOUSAND DEG F POWER WIRE SYSTEM AND ELECTRON-BEAM FLOAT-ZONE REFINING OF RHODIUM
QR-2 N64-31193 22-18

ISOTHERMAL RECRYSTALLIZATION OF ELECTROREFINED VANADIUM
BM-RI-6547 N64-33464 24-18

ELECTRORETINOGRAM
HUMAN ELECTRORETINOGRAPHY AND VISUAL PERFORMANCE
APR-2 N64-32379 23-16

ELECTROSLAG PROCESS
ELECTROSLAG WELDING OF SHIP PARTS WITHOUT SUBSEQUENT HEAT TREATMENT
JPRS-21485 N64-10325 01-17

SLAG COMPOSITION EFFECT ON MELTING OF ELECTRODE OF LARGE CROSS SECTION IN ELECTROSLAG PROCESS
JPRS-21983 N64-10387 01-17

METAL POWDERS AND ELECTROSLAG WELDING
JPRS-18465 N64-10766 02-18

WELDING OF VARIOUS GRANULATED METALLIC POWDERS - TUNGSTEN, NICKEL, TIN, LEAD, TITANIUM, ALUMINUM AND FERROALLOYS N64-10767 02-12

POWDER-PLATE ELECTRODE FOR ELECTROSLAG FACING - SHEET STEEL N64-10768 02-18

ELECTRON BEAM & ELECTROSLAG REFINING TO IMPROVE QUALITY OF STEELS & ALLOYS FOR WELDMENTS
JPRS-18490 N64-10770 02-18

MELTING OF STEEL ALLOYS BY ELECTROSLAG PROCESS
JPRS-21912 N64-10847 02-18

ELECTRIC ARC MELTING OF STEEL ALLOYS - ELECTROSLAG PROCESS N64-10848 02-18

ELECTROSLAG REMELTING OF HEAT-RESISTANT STAINLESS STEELS N64-10849 02-18

ELECTROSLAG REMELTING OF HEAT-RESISTANT STAINLESS STEEL FOR MACROSTRUCTURE IMPROVEMENT, REDUCTION OF CONTAMINATION, AND REJECT RATE REDUCTION
JPRS-22149 N64-11360 02-18

ELECTROSLAG REMELTING PROCESS FOR HIGH QUALITY STEEL & ALLOY PRODUCTION
JPRS-22217 N64-11419 02-17

STRIP ROLLING & ELECTROSLAG RESMELTING MOLYBDENUM
JPRS-22285 N64-11600 03-17

CALORIMETRIC TEMPERATURE MEASUREMENT OF BATHS FOR ELECTROSLAG WELDING
JPRS-22386 N64-11920 03-17

TITANIUM & TITANIUM ALLOYS - WELDING TECHNIQUES & ELECTROSLAG MELTING
JPRS-22492 N64-13417 05-01

ELECTROSLAG MELTING OF TITANIUM ALLOY INGOTS N64-13419 05-17

ELECTROSLAG MELTING - PROBLEMS ON TEMPERATURE FIELDS IN ELECTROSLAG INGOT AND THERMAL ENGINEERING OF INGOT SOLIDIFICATION
JPRS-23089 N64-15049 07-17

KINETICS OF AUSTENITE GRAIN GROWTH IN ELECTROSLAG WELDING OF AUSTENITIC STEELS
JPRS-24278 N64-18800 11-18

MELTING OF LARGE DIAMETER ELECTRODES DURING ELECTROSLAG PROCESS
JPRS-24369 N64-18981 11-17

ELECTROSLAG BUILD-UP OF FORGING DIES
JPRS-24523 N64-20013 13-17

ELECTROSLAG WELDING PROCESS
JPRS-24559 N64-20015 13-17

VISCOSITY AND ELECTRICAL CONDUCTIVITY OF FLUXES FOR ELECTROSLAG WELDING
JPRS-24769 N64-20830 14-19

INFLUENCE OF CONDITION OF ELECTROSLAG PROCESS ON MELTING SPEED OF HEAVY-GAUGE ELECTRODES N64-21863 15-17

DROP TRANSFER OF ELECTRODE METAL DURING ELECTROSLAG WELDING N64-21864 15-17

SUBMERGED ARC AND ELECTROSLAG WELDING FOR THICK TITANIUM ALLOY PLATE
DMIC-MEMO-188 N64-24334 17-18

ELECTROSLAG PROCESS WELDING & REMELTING
JPRS-25757 N64-27617 19-17

ELECTROSLAG WELDING OF FORGINGS OF TITANIUM ALLOY N64-27618 19-17

ELECTROSLAG WELDING OF LOW ALLOY STEEL N64-27619 19-18

ELECTROSLAG PROCESS REMELTING OF ELECTRODES

N64-27620 19-17

ELECTROSLAG WELDING OF CYLINDERS
N64-27621 19-17

ELECTROSLAG METAL CASTING AND POTENTIAL USE AS FOUNDRY PRODUCTION METHOD N64-29036 21-18

ELECTROSTATIC FIELD
TWO-SPHERE BOUNDARY-VALUE PROBLEM FOR EFFECT OF ELECTROSTATIC FIELDS ON DROPLET PAIRS, AS IN WARM CLOUD PRECIPITATION - FORCES AND FIELD STRENGTH
RM-3860-PR N64-15380 07-23

ELECTROSTATIC FIELDS APPLIED TO INCREASE HEAT TRANSFER COEFFICIENT IN CONDENSATION OF VAPOR
RTD-TDR-63-4008 N64-21178 14-13

ELECTROSTATIC FIELD INTENSITY MEASUREMENT BY SPUTNIK III SATELLITE
NASA-TT-F-8528 N64-23036 16-12

MEASUREMENT OF ELECTROSTATIC FIELD INTENSITY AT ROCKET SURFACE IN ATMOSPHERIC FLIGHT
NASA-TT-F-8527 N64-23113 16-12

ELECTROSTATIC FIELD INTENSITY MEASUREMENT AT SURFACE OF GEOPHYSICAL ROCKETS MOVING IN UPPER ATMOSPHERIC LAYERS
NASA-TT-F-8529 N64-23114 16-12

MEAN FREE PATH AND BOUNDARY INFLUENCES IN METALLIC FIELD EFFECT
TR-13 N64-26034 18-23

ELECTROSTATIC FIELD DISTRIBUTION OF CHARGED TEST PARTICLE IN A PLASMA - ELECTROMAGNETIC RADIATION SPECTRUM OF ELECTRONS ACCELERATED BY ELECTROSTATIC FIELD
ARL-64-111 N64-28020 20-24

MOVEMENT OF STRONG CHARGED PARTICLE BEAMS IN HIGH VOLTAGE ELECTROSTATIC FIELDS
FTD-TT-63-514/1&2 N64-29017 20-24

MEASUREMENT OF ELECTROSTATIC FIELD STRENGTH AT SPACECRAFT SURFACE IN UPPER ATMOSPHERE
N64-32339 23-15

ELECTROSTATIC PRECIPITATOR
ELECTROSTATIC DUST PRECIPITATORS FOR HIGH PRESSURE AND/OR HIGH TEMPERATURE N64-11090 02-06

ELECTROSTATIC PRECIPITATOR FOR AEROSOLS - INDUSTRIAL SAFETY
FTD-TT-63-639/1 N64-16382 08-23

DETECTION OF MICROORGANISMS IN UPPER ATMOSPHERE - ELECTROSTATIC PREPITATOR MODIFICATION, GENERATION OF TEST AEROSOLS, AND DESIGN OF FLIGHT SAMPLER
NASA-CR-50261 N64-22763 16-15

ELECTROSTATIC PROPULSION
CF ELECTRIC PROPULSION
RADIOISOTOPES FOR ELECTROSTATIC PROPULSION OF SMALL SPACE VEHICLES N64-11397 02-27

ELECTROSTATIC ROCKET ENGINES - BIBLIOGRAPHY
AID-P-63-121 N64-15949 07-27

ELECTROSTATIC THRUSTORS FOR INTERPLANETARY FLIGHT PROPULSION
NASA-TN-D-2172 N64-19477 12-27

ELECTROSTATIC PROPULSION FOR SPACE FLIGHT
NASA-TN-X-51764 N64-24030 16-27

CONDENSATION COLLOIDAL ION SOURCE FOR PRODUCTION OF PROPELLANT PARTICLES FOR ELECTROSTATIC ION ENGINE
ASD-TDR-63-825 N64-28815 20-27

PRINCIPLES OF ELECTROSTATIC PROPULSION, TYPES OF THRUSTORS, POWER GENERATION SYSTEMS, AND INSTRUMENTATION
NASA-TN-X-51766 N64-28953 20-27

PRESENT AND FUTURE STATUS OF ELECTROSTATIC THRUSTORS OF ELECTRIC PROPULSION SYSTEMS
NASA-RP-318 N64-31209 22-27

ELECTROSTATIC SHIELDING
ELECTROSTATIC AND MAGNETIC SHIELDING AGAINST SPACE RADIATION
RR-192 N64-32504 23-24

ELECTROSTATIC WAVE
PROPAGATION OF ELECTROSTATIC ION WAVES PERPENDICULAR TO DENSITY GRADIENT IN IONIZED PLASMA IN MAGNETIC FIELD
MATT-227 N64-11586 03-24

ELECTRON BEAM EXCITATION OF ELECTROSTATIC OSCILLATIONS IN MAGNETIC FIELD
MATT-242 N64-17776 09-24

ELECTROSTATICS
CF STATIC ELECTRICITY
APPARATUS FOR ELECTROSTATIC SENSITIVITY DETERMINATIONS OF EXPLOSIVES
PA-TM-1288 N64-13667 05-26

THRESHOLD RATE OF HYDROKINETIC RATE SENSOR WITH ELECTROSTATIC SUPPORT SYSTEM
GR-1425 N64-13773 05-15

ELECTROSTATIC IGNITION IN CARBURETOR-TYPE ENGINES
FTD-TT-63-822 N64-13920 05-06

ELECTROSTATIC EFFECTS ON CLOUD DROPLET TRAJECTORIES, COALESCENCE, AND CHARGING
P-2885 N64-21300 14-21

COLLECTIVE ELECTROSTATIC EFFECTS IN PLASMA BETATRON
SIT-114 N64-21823 15-24

SUPERCONDUCTIVITY - ELECTROSTATIC REPULSION OF ELECTRONS
FTD-TT-62-1714/1&2 N64-22393 15-25

ELECTROSTATIC RADIATION DETECTOR
FFIF-F-452 N64-27511 19-15

ELECTROSTRICTION
CF MAGNETOSTRICTION
IMPROVEMENT OF SIGNAL-TO-NOISE RATIO IN ELECTRO-MAGNETOSTRICTIVE VIBRATORY GYROSCOPE
NASA-CR-53882 N64-19902 12-15

ELECTROTHERMAL PROPULSION
CF ELECTRIC PROPULSION
ELECTRON BOMBARDMENT HEATING FOR ELECTROTHERMAL PROPULSION
ATN-64/9227/-3 N64-16078 07-27

PERFORMANCE OF HYDROGEN AND NONCRYOGENIC GASES OF AMMONIA, LITHIUM-HYDRIDE, METHANE, ETHANE, & WATER AS ELECTROTHERMAL THRUSTOR PROPELLANTS
NASA-TN-D-2253 N64-16120 08-27

ELECTROTHERMAL PLASMA PROPULSION - SUBSTITUTION OF WATER-COOLED OR TUNGSTEN ELECTRODES FOR CONSUMABLE ELECTRODES N64-21703 15-24

ELEKTRON I SATELLITE
RADIATION BELT MEASUREMENT BY SATELLITES ELEKTRON-1 AND ELEKTRON-2
JPRS-24378 N64-18982 11-12

RECORDING INSTRUMENTS ON BOARD ELEKTRON I AND ELEKTRON II SATELLITES
NASA-TT-F-9040 N64-25118 17-12

TWIN LAUNCHING OF ELEKTRON I AND ELEKTRON II SATELLITE TO STUDY OUTER RADIATION BELT
NASA-CR-56844 N64-27826 19-32

ELEKTRON I AND ELEKTRON II SPACE SYSTEMS
N64-31523 23-32

ELEKTRON II SATELLITE
RADIATION BELT MEASUREMENT BY SATELLITES ELEKTRON-1 AND ELEKTRON-2
JPRS-24378 N64-18982 11-12

RECORDING INSTRUMENTS ON BOARD ELEKTRON I AND ELEKTRON II SATELLITES

NASA-TT-F-9040 N64-25118 17-12

TWIN LAUNCHING OF ELEKTRON I AND ELEKTRON II SATELLITE TO STUDY OUTER RADIATION BELT
NASA-CR-56644 N64-27826 19-32

ELEKTRON I AND ELEKTRON II SPACE SYSTEMS
N64-31523 23-32

ELEMENT
S FUEL ELEMENT
S HEAVY ELEMENT
S LIGHT ELEMENT
S TRACE ELEMENT
S TRANSITION ELEMENT

ELEMENT ABUNDANCE
X-RAY SPECTROGRAPHY OF LEVELS OF CHEMICAL ELEMENTS IN BLOOD SERUM
UCRL-10873 N64-15242 07-16

ORIGIN AND ABUNDANCE OF ELEMENTS OBSERVED BY EMISSION AND ABSORPTION SPECTRA
N64-15291 07-12

ABUNDANCE OF RARE EARTH ELEMENTS, YTTRIUM AND SCANDIUM, IN NAKHLITIC ACHONDRITES - METEORITE COMPOSITION
N64-17561 09-05

CADMIUM ABUNDANCES IN METEORITIC AND TERRESTRIAL MATTER N64-18111 10-05

MAINTENANCE OF ISOTOPIC ABUNDANCE IN FORMATION OF ELEMENTS N64-19338 12-05

ELEMENT ABUNDANCE - EQUILIBRIUM THEORY FOR SYNTHESIS OF COMPLEX ATOMS N64-19340 12-05

INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS OF ELEMENT ABUNDANCE IN METEORITES
NASA-CR-53776 N64-19602 12-05

CHEMICAL ANALYSIS OF ELEMENT ABUNDANCES IN TEKTITES
NASA-RP-291 N64-28414 20-12

ELEMENTAL ABUNDANCES IN METEORITIC AND TERRESTRIAL MATTER - INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS
NASA-CR-59018 N64-32896 24-12

ELEMENTARY PARTICLE
SA CHARGED PARTICLE
SA DEUTERON
SA ELECTRON
SA FAST NEUTRON
SA MESON
SA NEUTRON
SA PHOTON
SA POSITRON
SA PROTON
CF PARTICLE
RECIPROCAL EFFECTS OF ARTIFICIALLY ACCELERATED ELEMENTARY PARTICLES IN THE GEV RANGE AND COSMIC RADIATION N64-11072 02-23

KINEMATICS OF ELEMENTARY PARTICLES AS FUNCTIONS OF KINETIC ENERGY
UCRL-2426, VOL. 1 /REV./ N64-16283 08-23

FORTRAN PROGRAM FOR ELASTIC SCATTERING OF SPIN-ZERO PARTICLES FROM ATOMIC NUCLEUS
NASA-TN-D-2120 N64-18079 10-20

QUANTUM THEORY OF ELEMENTARY PARTICLES
AD-420626 N64-18915 11-23

ELEMENTARY PARTICLE AND NUCLEAR STRUCTURE PHYSICS
AD-434279 N64-21807 15-23

MATHEMATICAL EXPLANATION OF ELEMENTARY PARTICLE AS ELEMENTARY PARTICLE
UR-875-33 N64-22112 15-23

QUANTUM FIELD THEORY AND DYNAMICAL ROLE OF SPIN IN ELEMENTARY PARTICLE PHYSICS
TH-54 N64-22491 15-23

THEORETICAL DEVELOPMENTS IN ELEMENTARY PARTICLE PHYSICS N64-22877 16-23

HIGH ENERGY PHYSICS - ELEMENTARY PARTICLES
UCRL-11100 N64-23380 16-23

CONFERENCE ON ELEMENTARY PARTICLES - PARITY NONCONSERVATION IN WEAK INTERACTIONS
N64-29060 21-23

STRUCTURE, SYMMETRY, AND SPACE TIME OF ELEMENTARY PARTICLES
RIFP-39 N64-29615 21-23

ELEVATION ANGLE
CALCULATING APPARENT ELEVATION ANGLE FOR TROPOSPHERIC TARGET FROM SPECIFIED VALUES OF GEOMETRICAL ELEVATION ANGLE AND HEIGHT
ERDA-67 N64-31190 22-04

ELEVATOR
S AILERON
S CONTROL SURFACE

ELEVON
S AILERON
S CONTROL SURFACE

ELLIPSE
BENDING OF ELLIPTICAL THIN PLATES UNDER CONCENTRATED MOMENT AT CENTER
MRC-444 N64-17626 09-33

HYPERSONIC FLOW PAST SLENDER BLUNT ELLIPTIC CONES
N64-23677 14-11

SOLUTIONS FOR PROBLEM OF BENDING ORTHOTROPIC ELLIPTICAL PLATES FREELY SUPPORTED ALONG CONTOUR
N64-30420 22-33

GEOMETRY AND FIRST-ORDER ERROR STATISTICS FOR THREE- AND FOUR-STATION HYPERBOLIC POINT LOCATIONS ON SPHERICAL EARTH
AFCRL-64-461 N64-31805 23-12

ELLIPSOID
CF BODY OF REVOLUTION
CF OGIVE
ARBITRARY NORMAL SECTION OF ROTATION ELLIPSOID
JPRS-18704 N64-10577 01-12

DETERMINATION OF EARTH REFERENCE ELLIPSOID AND GEODETIC DATA BASED ON SATELLITE OBSERVATION
JPRS-18002 N64-10731 02-12

DETERMINATION OF ELLIPSOIDS WITH MINIMUM PROPERTIES
TR-31 N64-14126 05-20

VELOCITY OF FLOW FIELD ABOUT ELLIPSOID OF REVOLUTION AT ANGLE OF ATTACK OF SIX DEGREES
AD-436094 N64-20120 13-02

ELLIPTIC FUNCTION
DIFFERENCE METHODS FOR DIRICHLET PROBLEM FOR ELLIPTIC DIFFERENTIAL EQUATIONS
BN-345 N64-25663 17-20

CONVERGENCE RATES OF ITERATIVE METHODS FOR NUMERICAL SOLUTION OF ELLIPTIC DIFFERENCE EQUATIONS
TR-28 N64-27546 19-20

NONNEGATIVE DIFFERENCE ANALOGS OF ELLIPTIC DIFFERENTIAL EQUATIONS
MRC-490 N64-31962 23-20

SOLUTION OF BOUNDARY VALUE PROBLEM FOR ELLIPTIC EQUATIONS BY MEANS OF NETS
FTD-MT-63-329 N64-32168 23-20

ELLIPTIC INTEGRAL
NUMERICAL APPROXIMATIONS AND FORTRAN IV PROGRAM FOR CALCULATING ELLIPTIC INTEGRALS OF THIRD KIND
E-110.3 N64-32190 23-20

ELLIPTICAL ORBIT
SA EULER-LAMBERT EQUATION
CONVERGENCE OF COORDINATE EXPANSIONS OF UNDISTURBED ELLIPTICAL AND HYPERBOLIC MOTIONS
MH-TRANS-422 N64-11568 03-20

MOTION EQUATIONS FOR ARTIFICIAL EARTH SATELLITE & ELLIPTICAL ORBIT PARAMETERS N64-11738 03-29

SATELLITE LIBRATION ON ELLIPTIC ORBIT
AM-3632-PR N64-16791 08-29

THERMAL RADIATION INCIDENT UPON FLAT PLATE ROTATING AROUND ARBITRARY AXIS IN ELLIPTICAL EARTH ORBIT
NASA-TN-D-2147 N64-17745 09-13

COSMOLOGY - STELLAR EVOLUTION, GROUPS OF MAIN SEQUENCE STARS, ECCENTRICITY OF ELLIPTICAL ORBITS, AND INTERSTELLAR MATERIAL
JPRS-24260 N64-19342 12-05

EFFECT OF STELLAR ENCOUNTERS ON CORRELATION OF ECCENTRICITY AND SEMIMAJOR AXIS OF ELLIPTICAL ORBIT OF WIDE DOUBLE STAR SYSTEMS
N64-19346 12-05

IMPULSE ORBITAL TRANSFER FOR NEARLY TANGENT COPLANAR ELLIPTICAL ORBITS
SPEC. REPT.-5 N64-20957 14-29

PARTIAL DERIVATIVES FOR COMPUTING ERRORS IN ELLIPTICAL ORBIT AND IMPACT PREDICTION
SSD-TDR-63-255 N64-21085 14-29

RELATIONSHIP BETWEEN GEOMETRICAL & KINEMATIC ELEMENTS OF PARTICLE MOVING IN ELLIPTICAL ORBIT
N64-23554 16-23

THOR DELTA LAUNCH VEHICLE PAYLOAD CAPABILITY FOR POLAR, CIRCULAR, AND ELLIPTICAL ORBITS
NASA-CR-56312 N64-24055 16-30

SINGULARITIES IN ANALYTIC SOLUTION OF LINEARIZED VARIATIONAL EQUATION OF ELLIPTICAL MOTION
NASA-CR-58703 N64-29215 21-29

CIRCULAR AND ELLIPTICAL TARGET ORBITS FOR MULTIPLE FLYBY INTERCEPTOR VEHICLES
TDR-269/4130-13/-1 N64-31055 22-29

ELLIPTICITY
DIAMETERS, ELLIPTICITIES, & SPECTRAL ALBEDOS OF MERCURY, VENUS, AND MARS
NASA-CR-53507 N64-19984 12-05

FORMULAS FOR STRESS CALCULATION FOR ELLIPTICAL REINFORCEMENT RING
PIBAL-684 N64-22048 15-33

SUPERSONIC AERODYNAMIC CHARACTERISTICS OF SERIES OF BODIES WITH VARIATIONS IN FINENESS RATIO AND CROSS-SECTION ELLIPTICITY
NASA-TN-D-2389 N64-26775 18-02

RADIATION ANALYZER TO MEASURE POLARIZATION AND ELLIPTICITY OF ZODIACAL LIGHT FROM ORBITING SOLAR OBSERVATORY /OSO/
NASA-CR-56313 N64-27397 19-15

OPTICAL PROPERTIES OF OPAQUE METAL FILMS BY ELLIPSOMETRIC MEASUREMENTS ON SUBSTRATE BACK SURFACE
SAR-10 N64-31124 22-25

ELSASSER INTEGRAL
S ABSORPTION BAND
S ABSORPTION SPECTRUM
S SPECTRAL LINE

EMBOLISM
FLIGHT MEDICINE - VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN, HYPOXIA & METABOLISM, FAT EMBOLISM DURING DECOMPRESSION
DVL-273 N64-12751 04-16

FAT EMBOLISM DURING DECOMPRESSION
N64-12755 04-16

FAT EMBOLISM IN ANIMALS DURING DECOMPRESSION
N64-12756 04-16

EMBRITTLEMENT
SA BRITTLENESS
EMBRITTLEMENT RELIEF TREATMENT FOR CRACK-FREE CHROMIUM-PLATED STEEL
FTDM-3103 N64-11767 03-18

NEUTRON EMBRITTLEMENT OF REACTOR PRESSURE VESSEL STEEL
NRL-5984 N64-12260 03-18

HIGH STRENGTH STEEL - HYDROGEN CAUSED EMBRITTLEMENT AND FAILURE
DMIC-MEMO-180 N64-12309 03-18

SUSTAINED LOAD TESTING AND HYDROGEN EMBRITTLEMENT OF CADMIUM PLATED NOTCH TENSILE STEEL
ERR-FW-161 N64-15588 07-18

EMBRITTLEMENT, OXIDATION, AND HIGH POWER-DENSITY EFFECTS ON ENERGY-MATERIAL INTERACTIONS
CAL-NM-1559-P-6 N64-20093 13-18

LIQUID METAL EMBRITTLEMENT OF SOLID METALS
N64-20799 14-18

EMBRITTLEMENT OF METALS BY ORGANIC LIQUID
IITRI-B18382-5 N64-26059 18-18

ZINC AND HYDROGEN INDUCED EMBRITTLEMENT IN FACE CENTERED CUBIC NICKEL ALLOY
ARL-64-101 N64-27467 19-18

URANIUM ADDITION EFFECT ON HYDROGEN EMBRITTLEMENT SUSCEPTIBILITY OF HIGH STRENGTH STEEL
NAEC-AML-1759 N64-31626 23-18

HYDROGEN EMBRITTLEMENT FROM CORROSION, CATHODIC PROTECTION, ELECTROPLATING AND PERMEATION RATES
AD-446525 N64-33713 24-07

EMBRYO
STRONTIUM 90 TOXICITY IN RAT EMBRYO
UR-639 N64-18348 10-16

HEARTBEAT MEASUREMENT OF BIRD EMBRYOS WITH MICROMETEORITE TRANSDUCER AS BALLISTOCARDIOGRAPH
NASA-SP-5007 N64-19015 11-16

CHANGES IN CATALASE ACTIVITY OF EGG HOMOGENATES DURING EMBRYONATION N64-32225 23-16

EMBRYOLOGY
ABSTRACTS ON INVERTEBRATE AND VERTEBRATE BEHAVIOR, PHYSIOLOGY, ENDOCRINOLOGY, GENETICS, EMBRYOLOGY, EVOLUTION, AND CELL BIOLOGY
NASA-CR-59307 N64-33513 24-16

EMERGENCY BREATHING TECHNIQUE
S PRESSURE BREATHING

EMISSION
SA AURORAL EMISSION
SA FIELD EMISSION
SA ION EMISSION
SA PHOTOELECTRIC EMISSION
SA RADIANT ENERGY
SA RADIATION
SA RADIO EMISSION
SA SECONDARY EMISSION
SA THERMIONIC EMISSION
PARTICLE CURRENT ACROSS BOUNDARY SURFACE OF UNIFORMLY EMITTING AND SELF-ABSORBENT INFINITE CIRCULAR CYLINDER
EUR-205.F N64-10464 01-23

MEASUREMENT OF THERMAL RADIATION PROPERTIES OF SOLIDS OVER WIDE RANGE OF TEMPERATURES - EMITTANCE STUDIES
NASA-SP-31 N64-10937 02-01

APPARATUS FOR MEASURING HEMISPHERICAL EMITTANCE OF SOLIDS IN AMBIENT & LIQUID NITROGEN TEMPERATURE RANGE, WITH COPPER & ALUMINUM FOIL DATA
N64-10942 02-13

EMITTANCE MEASUREMENT TECHNIQUES AND REQUIRED PROPERTIES FOR SPACECRAFT THERMAL CONTROL SURFACES
N64-10943 02-13

APPARATUS FOR MEASURING EMITTANCE AND ABSORPTIVITY OF SATELLITE TEMPERATURE CONTROL SURFACES
N64-10944 02-13

DEVICE FOR MEASURING TOTAL HEMISPHERICAL EMITTANCE OF MATERIALS FOR ORBITING ASTRONOMICAL OBSERVATORY SATELLITE THERMAL CONTROL SURFACE
N64-10950 02-15

CALORIMETER FOR MEASURING TOTAL HEMISPHERICAL EMITTANCE IN LOW TEMPERATURE RANGE
N64-10951 02-18

SOLAR ABSORPTANCE, EMITTANCE, & TRANSMITTANCE OF THERMAL CONTROL COATING FOR SPACECRAFT
N64-10953 02-13

EMITTANCE MEASUREMENT FOR SHEET MATERIALS AT LOW TEMPERATURE, AND MATHEMATICAL EXPRESSION FOR CYLINDRICAL CONFIGURATION N64-10954 02-13

MULTICHAMBER VACUUM CALORIMETER FOR MEASUREMENT OF HEMISPHERICAL EMITTANCE OF HIGH TEMPERATURE RADIATOR COATINGS N64-10957 02-15

INSTRUMENTATION FOR SIMULTANEOUS MEASUREMENT OF SPECTRAL AND NORMAL EMITTANCE OF MATERIALS IN AMBIENT AND VACUUM ENVIRONMENT AT HIGH TEMPERATURE
WADD-TR-60-102 N64-10958 02-15

MEASUREMENT OF TOTAL NORMAL EMITTANCE OF NUCLEAR REACTOR MATERIALS - CARBON STEEL, BORON STEEL, & BORATED GRAPHITE N64-10960 02-13

TEMPERATURE DEPENDENCE OF HEMISPHERICAL EMITTANCE OF METAL AND ALLOY STRIPS IN 100- TO 1200-DEG C RANGE USING BLACKBODY VACUUM CHAMBER
N64-10961 02-13

HEMISPHERICAL EMITTANCE OF STRUCTURAL MATERIALS & COATINGS UNDER SIMULATED SPACECRAFT CONDITIONS OVER WIDE TEMPERATURE RANGE N64-10962 02-13

TOTAL NORMAL EMITTANCE MEASUREMENT TECHNIQUE FOR OPAQUE SOLID MATERIALS OVER 1000- TO 3000-DEG F RANGE N64-10964 02-13

EMITTANCE MEASUREMENT FOR TEMPERATURES TO 3000-DEG F TO PROVIDE DATA ON THERMAL RADIATION OF CERAMICS FOR REENTRY VEHICLE USE
ASD-TR-61-706, VOL. 2 N64-10965 02-13

EMITTANCE MEASURING APPARATUS FOR TEMPERATURES UP TO 4000-DEG F N64-10966 02-13

EMITTANCE MEASUREMENTS OF CERAMIC COATINGS UP TO 2900 DEG KELVIN N64-10967 02-13

EMITTANCE MEASUREMENT FOR REFRACTORY MATERIALS TO 5000 DEG F - TEMPERATURE & STRUCTURE DEPENDENCE
N64-10968 02-13

DISPERSION OF ATMOSPHERIC POLLUTANTS - FORMULAS FOR EMISSION SOURCES - DUSTFALL, PRECIPITATION, & TOPOGRAPHICAL EFFECT N64-11051 02-21

ATMOSPHERIC POLLUTION PARTICLE EMISSION
N64-11053 02-21

INVESTIGATION OF PARTICLE EMISSION FROM LASER-BEAM HEATED SURFACES
RADC-TDR-63-465, VOL. 2 N64-13796 05-25

PARTICLE EMISSION FROM TUNGSTEN CATHODE SURFACE HEATED BY PULSED LASER BEAM N64-13797 05-25

DEVELOPMENT OF SPACE-STABLE THERMAL CONTROL COATINGS WITH LOW SOLAR ABSORPTANCE-EMITTANCE RATIOS
NASA-CR-55826 N64-16715 08-19

PHYSICAL CONDITIONS IN SOLAR PROMINENCES THROUGH SPECTROGRAMS OF EMISSION LINES WITH SELF-ABSORPTION
T-R-84 N64-16961 09-28

ACOUSTIC EMISSION UNDER APPLIED STRESS
ASD-TR-63-509, PT. 2 N64-21502 15-23

RADIATION EMANATION OF NEODYMIUM IONS
N64-21859 15-07

LATITUDINAL AND PLANETARY VARIATIONS OF HYDROXYL EMISSION N64-21879 15-12

EMISSION OF MOLECULAR OXYGEN N64-21882 15-12

HYDROXYL EMISSION AND ATMOSPHERIC BAND OF OXYGEN MOLECULE N64-21884 15-12

OBSERVATIONS OF CONTINUUM OF TWILIGHT-SKY EMISSION
N64-21888 15-12

TABLE OF NUCLIDE MASSES AND ENERGIES AVAILABLE FOR EMISSION OF NEGATRONS, POSITRONS, NEUTRONS, PROTONS, & ALPHA PARTICLES
BNL-846/T-333/ N64-21998 15-23

BRAGG ANGLES FOR SOFT X-RAY EMISSION LINES USING POTASSIUM ACID PHTHALATE AND RUBIDIUM ACID PHTHALATE ANALYZING CRYSTALS
ML-TDR-64-2 N64-22374 15-25

INFRARED STUDY OF EMISSION CHARACTERISTICS OF ORGANIC SOLIDS WITH STRONG ABSORPTION BANDS
NASA-CR-56284 N64-22456 15-07

ATTENUATION AND EMISSION IN EARTH ATMOSPHERE OF COMPLEX OF 60 GC/S OXYGEN LINES
REPT.-5-53 N64-23145 16-12

STATISTICAL STUDIES OF HYDROMAGNETIC EMISSION
REPT.-8-08-64-1, VOL. II N64-24063 16-12

MICROWAVE EMISSION FROM CYLINDRICAL PLASMA
N64-24676 17-24

EMISSION PROCESS IN II-VI COMPOUND - CADMIUM TELLURIDE
AD-601674 N64-24940 17-25

TOTAL NORMAL AND HEMISPHERICAL EMITTANCE OF POLISHED METALS
WADD-TR-61-94, PT. III N64-25636 17-18

TIME DELAY BETWEEN APPLICATION OF CURRENT PULSE AND ONSET OF STIMULATED EMISSION
REPT.-3 N64-25684 17-25

OCCURRENCE OF VERY LOW FREQUENCY EMISSIONS DURING GEOMAGNETIC DISTURBANCES IN AURORAL ZONE
AFCRL-64-627 N64-28534 20-12

POST-ACTIVATION DIFFUSION EMISSION OF XENON FROM GRAPHITE MATRIX URANIUM CARBIDE
EUR-1454.E N64-29776 21-23

RELATION OF TYPE IV CONTINUUM EMISSION AND ENERGETIC PARTICLE RADIATION ASSOCIATED WITH SOLAR FLARES N64-30278 22-20

RELATIONS OF X-RAY RADIATION, PARTICLE EMISSION, AND RADIO EMISSION DURING SOLAR FLARES
N64-30290 22-21

HYDROXYL EMISSION WITH DIFFERENT VIBRATIONAL EXCITATION N64-32706 24-12

HYDROXYL EMISSION IN UPPER ATMOSPHERE
N64-32707 24-12

EXCITATION OF HELIUM EMISSION AT TWILIGHT RELATED TO ALTITUDE AND SOLAR DEPRESSION ANGLE
N64-32712 24-12

CYCLOTRON FREQUENCY HYDROMAGNETIC WAVE EXCITATION
NASA-CR-59199 N64-33160 24-12

X-RAY FLARE EMISSION ORIGINATING BEHIND SOLAR DISK - IONOSPHERIC DISTURBANCE OBSERVATIONS
AD-424481 N64-33729 24-23

EMISSION SPECTRUM
OXYGEN EMISSION & ABSORPTION SPECTRUM
N64-10912 02-23

X-RAY ABSORPTION & EMISSION SPECTRA AND ELECTRONIC STRUCTURE OF ATOMS OF SUPERCONDUCTING COMPOUNDS
JPRS-22588 N64-12148 03-23

LOW-PRESSURE ARC SOURCE FOR EMISSION SPECTRUM OF FERROUS OXIDE N64-13341 04-23

HIGH RESOLUTION EMISSION SPECTRUM OF CYANIDE ION
AFCRL-63-781 N64-14367 06-23

PREPARATION TEMPERATURE EFFECTS ON EMISSION SPECTRA OF MANGANESE ACTIVATED MAGNESIUM GERMANATE
REPT.-2900-446-R N64-14397 06-25

ORIGIN AND ABUNDANCE OF ELEMENTS OBSERVED BY EMISSION AND ABSORPTION SPECTRA
N64-15291 07-12

ZEEMAN EFFECT IN EMISSION INTENSITY OF GAS DISCHARGE LASER
USAELRDL-TR-2322A N64-15708 07-25

SPECTROSCOPIC ANALYSIS OF EMISSION SPECTRUM OF ATOMIC MATERIALS
AEC-TR-5745 N64-16031 07-07

X-RAY ABSORPTION AND EMISSION SPECTRA OF TITANIUM IN DIELECTRIC MATERIALS N64-16219 08-23

EMISSION SPECTRA OF ALUMINUM AND BERYLLIUM FLUORIDES
IITRI-C6013-3 N64-17475 09-23

LINE BRIGHTNESS AND STRUCTURE OF SODIUM EMISSION IN COMETS AND MOLECULAR LIFETIME
AFCRL-64-82 N64-18200 10-05

ATOMIC HYDROGEN EMISSION LINE OBSERVATIONS OF GALAXIES
HRAP-111 N64-18471 10-05

ELECTRON-SLOWING-DOWN FLUX SPECTRUM OF LOW ENERGY BETA RAYS FROM COPPER 64 IN COPPER
ORNL-3463 N64-21017 14-23

EMISSION SPECTROSCOPIC TECHNIQUES IN MASS TRANSFER & TURBULENT DIFFUSION STUDIES
IS-738 N64-21801 15-07

INTERFERENCE REDUCTION TECHNIQUES FOR OPTIMIZATION OF EMISSION SPECTRUM FOR NONLINEAR ELECTRONIC MODULE
REPT.-64-SINAR-27/2 N64-22213 15-09

DIGITAL COMPUTER METHODS FOR ANALYSIS AND SYNTHESIS OF RADAR EMISSION SPECTRUMS
N64-22820 16-09

LITHIUM ALUMINOSILICATE AS ION EMITTING SOURCE FOR THERMIONIC CONVERTER
USAELRDL-TR-2479 N64-26176 18-23

PHOTOELECTRIC ATLAS OF INTENSE LINES OF HYDROGEN MOLECULAR EMISSION SPECTRUM
ATN-64/9233/-2 N64-26761 18-23

EMISSIVITY OF COATINGS SUBJECTED TO HIGH VACUUM AND HIGH TEMPERATURE ENVIRONMENTS
NASA-CR-58054 N64-26808 18-25

EMITTANCE MEASUREMENT OF DISILICIDE-TYPE COATINGS
N64-27021 19-19

YELLOW CORONAL LINE OBSERVATION DURING INTERNATIONAL GEOPHYSICAL YEAR
IGY SOLAR ACT. REPT. SER.-27 N64-27077 19-28

INTEGRATED INTENSITIES OF FUNDAMENTAL AND FIRST OVERTONE BANDS OF NITRIC OXIDE BETWEEN 1400 AND 2400 DEGREES KELVIN - INFRARED DETECTOR
GDA-DBE-64-039 N64-27575 19-13

EMISSIVITY OF CIRCULAR-APERTURE BLACK BODY RADIATION SOURCE
RR-63-3 N64-29716 21-23

EMISSION SPECTRUM OF VIBRATION-ROTATION BANDS OF NITRIC OXIDE IN NEAR INFRARED REGION
AFCRL-64-583 N64-30011 21-07

BROADENING AND ASYMMETRY OF EMISSION LINES IN SOLAR FLARES N64-30259 22-28

SPECTRUM OF DIATOMIC HELIUM MOLECULE
N64-30307 22-23

DAILY MEAN INTEGRATED CORONAL INDICES FOR 1963
HAO-60 N64-30458 22-28

X-RAY EMISSION OF PROTON FLARES - PECULIARITIES AND SPECTRUM HARDENING
NASA-TT-F-8956 N64-30849 22-28

INFRARED EMISSION SPECTRUM OF ATMOSPHERE AND EARTH
AFCRL-64-567 N64-32205 23-12

EMITTER
TEMPERATURE DEPENDENCE OF CIRCUITS USING TWO EMITTER-COUPLED TRANSISTORS
EUR-370.E N64-11367 02-09

EMITTER MATERIALS FOR USE IN LOW TEMPERATURE THERMIONIC ENERGY CONVERTERS
AD-403362 N64-13599 05-06

CAPILLARY EMITTER THERMIONIC CONVERTER
ASD-TDR-63-865 N64-13766 05-06

TESTING THERMIONIC CONVERTERS WITH DIFFERENT EMITTERS AND COLLECTORS
APL-TDR-64-63 N64-22384 15-06

NOBLE GAS PLASMAS & EMITTER MATERIALS FOR NUCLEAR THERMIONIC CONVERTERS N64-22980 16-09

CAVITY EMITTER EXPERIMENTATION N64-22990 16-09

CESIUM PLASMA DIODE WITH NICKEL EMITTER
LAMS-3086 N64-25195 17-24

MULTIPLE EMITTER TRANSISTOR IN LOW POWER LOGIC CIRCUITS N64-26445 18-09

EMITTER-COLLECTOR PAIRS FOR GAS PLASMA THERMIONIC ENERGY CONVERSION
HD-6827 N64-30527 22-06

CADMIUM SELENIDE FILM AS EMITTER OF HOT ELECTRONS AND ATTENUATION OF HOT ELECTRONS IN GOLD
AFCRL-64-673 N64-31043 22-25

VERTICAL DIRECTION FINDING BY FIELD STRENGTH COMPARISON OF TWO FIXED EMITTERS OF DIFFERENT RADIATION PATTERNS
E-T-G-63-14 N64-31274 22-22

ALUMINUM AND SODIUM NITRATE EMITTER USED WITH MONOCHROMATOR-PHOTOMETER FOR MEASURING IONOSPHERIC TEMPERATURE
NASA-TT-F-8977 N64-33384 24-12

EMPIRE MANNED INTERPLANETARY EXPEDITION
EMPIRE PROGRAM FOR NASA - MISSION ANALYSIS AND SPACECRAFT SYNTHESES FOR MANNED CLOSE APPROACH TO VENUS AND MARS N64-10042 01-32

EMULSION
S COLLOID
S NUCLEAR EMULSION
S SLURRY

ENCAPSULATION
ENCAPSULATED THERMIONIC POWER GENERATOR
MND-2945-1 N64-16566 08-06

EPOXY ENCAPSULATED COILS FOR RELAYS
N64-19510 12-17

ELECTROMECHANICAL SWITCHING ELEMENT - GLASS ENCAPSULATED REED RELAYS N64-19534 12-09

ENCAPSULATION TECHNIQUES FOR IRRADIATION EXPERIMENTS
NRL-MEMO-1481 N64-25833 17-23

FABRICATION OF CESIUM-137 SOURCES - ENCAPSULATION OF CESIUM CHLORIDE PELLETS IN STAINLESS STEEL
ORNL-3675 N64-30483 22-17

ENCODER
PACKAGING OF AIRBORNE MULTIPLEXER-ENCODER PULSE CODE MODULATION TELEMETRY SYSTEM
N64-16160 08-09

OPTIMIZATION OF RECEIVER AND ENCODER FOR UNKNOWN

SIGNAL WAVEFORMS IN MULTIPATH COMMUNICATIONS
USCEE-104 N64-21778 15-08

BRUSHLESS ANALOG TO DIGITAL SHAFT POSITION ENCODER
N64-31490 23-15

OPTICAL ENCODER FOR HIGH RESOLUTION TRANSDUCER
N64-31491 23-15

ENCODER EVALUATION - OSCILLOSCOPE AND OSCILLOGRAPH COMBINED WITH LOGIC CIRCUITS TO CHECK PHASING AND DETECT NOISE N64-31492 23-15

ANALOG-TO-DIGITAL, BRUSHLESS, SHAFT ENCODER PROGRAM FOR WEAPONS SYSTEMS N64-31502 23-15

COMPUTER-INDEPENDENT ABSTRACT MACHINE-LANGUAGE ENCODER AND OPERATING SYSTEM OF UNIVAC 1107 THIN-FILM COMPUTER
NASA-TM-X-55096 N64-33622 24-20

ENCODING
CF CODING
FILTERING, ENCODING SYSTEM, TELEMETRY, AND DECODING OF SATELLITE MEASUREMENTS - DATA PROCESSING
NASA-CR-55017 N64-12026 03-08

ERROR PROTECTION IN INFORMATION ENCODING
AMRL-TDR-63-83 N64-16433 08-20

SYNTHESIS AND MECHANIZATION OF ENCODING TECHNIQUES FOR USE IN PULSE FREQUENCY MODULATION TELEMETRY SYSTEM FOR SATELLITES
NASA-TN-D-1672 N64-21263 14-08

TECHNIQUES FOR REDUCTION OF REDUNDANCY IN PULSE CODE MODULATED /PCM/ TELEMETRY DATA
AL-TDR-64-10 N64-26763 18-08

ENCODING AND DECODING EQUIPMENT FOR MAGNETIC TAPE RECORDING OF SLOWLY VARYING METEOROLOGICAL PARAMETERS N64-26975 19-15

TRANSMISSION OF ENCODED INFORMATION IN DISCRETE COMMUNICATIONS SYSTEMS
JPRS-25674 N64-28018 20-08

ALGORITHM BASED ON DYNAMIC PROGRAMMING DEVELOPED FOR SPECIFIC VALUES OF QUANTIZER PARAMETERS
N64-33698 24-23

ENDOCRINE SYSTEM
ENDOCRINE & METABOLIC EFFECTS OF SHORT DURATION HYPEROXIA
SAM-TDR-64-6 N64-18917 11-16

ENDOCRINOLOGY
ABSTRACTS ON INVERTEBRATE AND VERTEBRATE BEHAVIOR, PHYSIOLOGY, ENDOCRINOLOGY, GENETICS, EMBRYOLOGY, EVOLUTION, AND CELL BIOLOGY
NASA-CR-59307 N64-33513 24-16

ENERGY
SA ATOMIC ENERGY
SA ELECTRIC ENERGY
SA ENTHALPY
SA ENTROPY
SA KINETIC ENERGY
SA POTENTIAL ENERGY
SA POWER
SA PROTON ENERGY
SA RADIANT ENERGY
SA SOLAR ENERGY
SA THERMAL ENERGY
EXACT EXPANSION OF ELECTRONIC ENERGY OF ONE-ELECTRON DIATOMIC MOLECULES IN POWERS OF INTERNUCLEAR SEPARATION
NASA-CR-52609 N64-11118 02-23

MASS SPECTROMETRIC DETERMINATION OF DISSOCIATION ENERGIES OF GASEOUS INDIUM-SULFUR COMPOUNDS
WADD-TR-60-782, PT. 12 N64-11171 02-18

SURFACE ENERGY OF OXIDES, SULFIDES, AND SELENIDES
NASA-TT-F-167 N64-11563 03-25

ENERGY DEPOSITED IN WATER, COPPER, AND ALUMINUM BY ELECTRON BEAM N64-12534 04-23

ENERGY DEPOSITED IN SHIELDED SOLAR CELLS BY HIGH-ENERGY ELECTRONS N64-12535 04-23

CONVERTING CHEMICAL ENERGY INTO ELECTRICAL ENERGY
NASA-TT-F-136 N64-12692 04-06

SURFACE-ENERGY BALANCE IN ARID-LANDS AGRICULTURE
PRODUCTION RES. REPT.-76 N64-13378 04-21

LANDAU THEORY OF ENERGY STRAGGLING IN SERIES OF ABSORBING LAYERS
AFCRL-63-558 N64-13771 04-23

MEASUREMENTS OF SEISMIC WAVE ATTENUATION THROUGH SEDIMENTARY ROCK - EARTHQUAKES
JPRS-23128 N64-14711 06-12

FUNCTIONS FOR CALCULATION OF ENTROPY, ENTHALPY, AND INTERNAL ENERGY OF REAL CRYOGENIC FLUIDS
NASA-CR-55325 N64-15882 07-13

FREE ENERGY OF SPIN SYSTEM IN REGULAR LATTICES
AD-429544 N64-15954 07-23

HIGH ENERGY DENSITY PRIMARY BATTERIES
NASA-CR-53111 N64-16762 08-06

BINDING ENERGY OF OXIDES OF TRANSITION METALS
N64-17063 09-23

ENERGY AVAILABILITY IN VARIOUS MAGNESIUM PRIMARY CELL SYSTEM N64-17425 09-06

HYDROPHONES TO DETECT SEISMIC ENERGY ON OCEAN BOTTOM
SCI. REPT. 25 N64-17462 09-12

ENERGY, ENTROPY, AND GAS EXPENDITURE IN NONUNIFORM SUPERSONIC GAS FLOW
FTD-MT-63-51/1&2 N64-18755 11-11

ELASTIC SCATTERING OF HIGH ENERGY PROTONS
FTD-MT-63-53/1&2 N64-18756 11-23

PHASE EQUILIBRIA-FREE ENERGY OF SOLUTION RELATIONSHIPS IN LIQUID SODIUM SYSTEMS
NAA-SR-8381 N64-19247 11-23

MOLECULAR STORAGE AND TRANSFER OF ELECTROMAGNETIC ENERGY IN GASEOUS PLASMAS - ATOM RECOMBINATION
RADC-TDR-63-275 N64-20025 13-24

HIGH ENERGY BATTERY SYSTEM - EXAMINING ELECTRODE MATERIALS IN HALF-CELL STUDIES WITH VARIETY OF ELECTROLYTES
R-5405-2 N64-20375 13-06

HIGH ENERGY COSMIC RAY SPECTRUM & COMPOSITION
NASA-CR-56025 N64-20590 13-28

SURFACE ENERGY PHENOMENA AND CORROSION
N64-20802 14-23

LOW-TEMPERATURE VAPOR-FILLED THERMIONIC CONVERTER FOR NUCLEAR APPLICATION
AD-435885 N64-21690 15-06

POWDER METALLURGY - EFFECT OF INTERPHASE SURFACE ENERGY ON WETTING PROCESS N64-22173 15-17

THEORETICAL AND EXPERIMENTAL STUDIES ON REACTOR DYNAMICS AND CONTROL - NUCLEAR ENGINEERING
TID-7662 N64-22236 15-23

DIFFERENTIAL EQUATIONS FOR ENERGY DENSITY AND AMPLITUDE VARIATION IN SPACE CURVE IN MEDIUM OF CHANGING REFRACTIVE INDICES
DAMP-TM-63-04 N64-22331 15-23

BEHAVIOR OF CHEMICAL EQUILIBRIUM SYSTEM WHEN FREE ENERGY PARAMETERS ARE CHANGED
RM-4128-PR N64-22619 15-20

MEASUREMENT AND SHELL MODEL INTERPRETATION OF LOW-LYING NUCLEAR ENERGY LEVELS OF NIOBIUM 92
ORNL-3638 N64-23362 16-23

VOLUMETRIC CHEMICAL ENERGY AS MECHANISM FOR ENHANCING ISOTROPIC TURBULENCE OF COMPRESSIBLE

FLUID MEDIUM
TR63-217D N64-23401 16-11

HIGH ENERGY DENSITY NONAQUEOUS BATTERY
NASA-CR-56463 N64-24046 16-09

FUNCTIONS FOR CALCULATION OF ENTROPY, ENTHALPY, & INTERNAL ENERGY OF REAL FLUIDS USING STATE EQUATIONS AND SPECIFIC HEATS N64-24147 16-11

VIRTUAL ORBITAL METHOD USING HARTREE-FOCK CALCULATIONS APPLIED TO DETERMINATION OF MOLECULAR ENERGY
QSR-6 N64-25315 17-23

INTERNAL ENERGY AND DEFORMATION IN ROD-TO-ROD IMPACT N64-25347 17-23

APPROXIMATION OF ENERGY REQUIRED FOR FORMING THIN WALLED AXISYMMETRIC BODIES
FTD-TT-64-249/1&2&4 N64-25450 17-23

FORMATION HEATS AND FREE ENERGIES OF SULFIDES OF MANGANESE, IRON, ZINC, AND CADMIUM
BM-RI-6495 N64-25841 18-07

HIGH TEMPERATURE AND HIGH ENERGY RATE METAL FORMING
ASD-TR-8-143/III/ N64-25877 18-17

COUPLING COEFFICIENTS FOR PRIMARY AND SECONDARY VARIATION OF COSMIC RAYS IN HIGH ENERGY REGION N64-25940 18-28

HIGH ENERGY COSMIC RADIATION PARTICLES
NASA-RP-260 N64-26079 18-28

INTERPHASE SURFACE ENERGY AND ENERGY OF ACTIVATION OF CRYSTALLIZATION PROCESS
FTD-TT-64-161/1&2 N64-26727 18-25

COMPUTATION OF SPECIFIC ENERGY OF FUEL CELLS
NASA-TT-F-9039 N64-27328 19-06

CORRELATION OF METEOROLOGICAL CONDITIONS /WIND, TEMPERATURE, PRESSURE, AND HUMIDITY/ WITH SEISMIC NOISES
AFCRL-64-607 N64-28154 20-21

ENERGY MEASUREMENT IN COAXIAL PLASMA GUN
AIAA PAPER-64-704 N64-28369 20-24

APPLICATION OF ISOTOPE CHEMISTRY TO INTERMOLECULAR FORCE, GEOCHEMICAL, AND LIFE SCIENCE STUDIES
BNL-870/T-349/ N64-28700 20-07

ACCESSIBLE REGIONS METHOD OF ENERGY AND FLIGHT TIME ANALYSIS FOR ONE-WAY BALLISTIC INTERPLANETARY MISSIONS
NASA-CR-58359 N64-28840 20-29

PHYSICAL SCIENCES - CONTROLLED RELEASE OF THERMONUCLEAR ENERGY, MEASUREMENT APPARATUS, CONFERENCES, AND PUBLICATIONS
AEC-TR-5332 N64-29052 21-23

SURFACE ENERGY OF SOLID SILVER - LOW TEMPERATURE EXPERIMENTAL DETERMINATIONS N64-29218 21-18

LOWER BOUND FOR FREE ENERGY OF ANTIFERROMAGNETIC HEISENBERG LINEAR CHAIN
TR-20 N64-29635 21-23

TECHNIQUES OF OBTAINING POPULATION INVERSIONS IN MOLECULAR VIBRATIONAL ENERGY LEVELS TO BE USED TO GENERATE COHERENT INFRARED RADIATION
VARIAN-314-15 N64-30159 21-25

EQUIPMENT FOR PHOTOELECTRON DETERMINATION OF BINDING ENERGIES IN ATOMS
AD-603170 N64-30198 21-10

SCINTILLATION COUNTER FOR DETECTION OF LOW ENERGY ION N64-30359 22-23

RUSSIAN DEVELOPMENT OF MAGNITUDE AND ENERGY SCALES FOR SEISMOLOGICAL MEASUREMENT OF EARTHQUAKES N64-30380 22-12

USE OF BODY AND SURFACE WAVES TO DETERMINE ENERGY IN SEISMIC WAVES N64-30381 22-12

SECONDARY ION EMISSION DURING METAL BOMBARDMENT BY LOW ENERGY IONS
FTD-TT-64-544/1&2&4 N64-30486 22-23

ISOTOPIC COMPOSITION OF LOW ENERGY HYROGEN NUCLEI IN PRIMARY COSMIC RADIATION
URPA-45 N64-30957 22-28

DETERMINATION OF ENERGY OF PULSED LASER BEAM BY TRANSFER OF PHOTON MOMENTUM TO BALLISTIC PENDULUM
NOLTR-63-82 N64-31247 22-25

HIGH ENERGY DENSITY PRIMARY BATTERY DEVELOPMENT
NASA-CR-54083 N64-31454 23-06

MASS ACTION LAWS AND GIBBS FREE ENERGY FUNCTION
RM-3935-1-PR N64-31815 23-07

POINT OF INSTABILITY OF GENERAL RELATIVISTIC FLUID SPHERE WITH CONSTANT ENERGY DENSITY AND HEAT CAPACITY
MRC-487 N64-31960 23-23

ENERGY SOLUTION TO BUCKLING OF SPHERICAL SHELLS
RS-TN-64-1 N64-33149 24-33

UPPER AND LOWER BOUNDS FOR RAYLEIGH-SCHRODINGER PERTURBATION ENERGIES
NASA-CR-58965 N64-33169 24-23

ELASTIC STRAIN ENERGY FUNCTIONS FOR COMPRESSIBLE, ISOTROPIC FILLED ELASTOMERS
TR-25 N64-33322 24-33

ANALOG CIRCUITS FOR ENERGY AND FUEL OPTIMAL CONTROL OF LINEAR DISCRETE SYSTEMS
NASA-CR-59248 N64-33340 24-09

PERTURBATION METHOD OF CALCULATING EXCESS FREE ENERGY OF MIXING MOLTEN RECIPROCAL SALT SOLUTION
NAA-SR-8880 N64-33434 24-07

PRIMARY BATTERY SYSTEM WITH MINIMUM ENERGY DENSITY OF 200 WATT HOURS PER POUND
NASA-CR-54110 N64-33617 24-06

CHEMICAL AND MECHANICAL ENERGY CONVERSION BY MACROMOLECULAR SYSTEMS IN CONTRACTILES
AD-600541 N64-33677 24-07

ION BEAM ENERGY STABILIZATION OF VAN DE GRAAFF GENERATOR N64-33714 24-23

ENERGY DEPENDENCE OF LARGE ANGLE ELASTIC ALPHA PARTICLE SCATTERING
NASA-RP-354 N64-33787 24-23

FABRICATION OF LONG LIFE, HIGH ENERGY DENSITY SECONDARY BATTERY BASED ON LITHIUM-SILVER CHLORIDE SYSTEM - AEROSPACE APPLICATIONS
QTPR-2 N64-33979 24-06

ENERGY ABSORPTION
CALORIMETRIC DEVICE FOR DETERMINATION OF SOLAR ABSORPTION & INFRARED EMITTANCE RATIO OF MATERIALS AT ROOM TEMPERATURE N64-10945 02-13

SPECTRAL DIFFUSE REFLECTANCE AND SIMULATED SOLAR ABSORPTANCE MEASUREMENTS FOR DETERMINATION OF SOLAR ABSORPTANCE OF SPACECRAFT MATERIALS N64-10946 02-28

ENERGY ABSORBER FOR ARIEL I INSTRUMENT BOOMS
NASA-TM-X-936 N64-12873 04-06

INTERACTION OF GUIDED ELECTROMAGNETIC WAVES IN MAGNETOPLASMAS TO STUDY PHENOMENA FROM CYCLOTRON RESONANCE ABSORPTION OF MICROWAVE ENERGY BY GASES
AFCRL-63-737 N64-13073 04-24

MECHANISMS OF HIGH POWER MICROWAVE ENERGY ABSORPTION AND THERMAL ENERGY TRANSFER IN GASES - PLASMA PHYSICS N64-14219 06-24

ABSORPTION OF OXYGEN IN 2.5 MILLIMETER WAVELENGTH
AD-428845 N64-15098 07-23

ALUMINUM HONEYCOMB ENERGY ABSORPTION PROPERTIES
A483 N64-17141 09-19

PLASMA OSCILLATION - LANDAU DAMPING AND RESONANT ENERGY ABSORPTION
NASA-CR-53177 N64-17580 09-23

METHODS FOR PREDICTING DEFORMATION BEHAVIOR OF CORRUGATED CYLINDRICAL AND CONICAL SHELL STRUCTURES - ENERGY ABSORPTION
AFOSR-64-0154 N64-18037 10-33

STRUCTURAL MATERIAL WITH HIGH ENERGY ABSORPTION CAPABILITY AND TRANSPARENCY TO RADIO FREQUENCY TRANSMISSION
NASA-CR-53479 N64-18098 10-09

LOW ENERGY ABSORPTION AND BREMSSTRAHLUNG CROSS SECTIONS FOR NITROGEN
REPT.-1565 N64-25662 17-23

CONCEPTS OF MULTIPLE-IMPACT STUDY OF ENERGY ABSORPTION - CYCLIC STRAIN ENERGY IMPACT DEVICE
NASA-CR-56445 N64-25770 17-15

ABSOLUTE MEASUREMENT OF SUN DISK ENERGY EMISSION USING BLACK BODY
NASA-TT-F-8929 N64-26786 18-28

MATERIALS TO ABSORB IMPACT ENERGY OF SPACECRAFT DURING LANDING
NASA-TM-X-54070 N64-27246 19-34

METAL HONEYCOMB ELEMENTS USED AS AXIAL ENERGY ABSORBERS - GEOMETRY, UNIT WEIGHT, MATERIAL THICKNESS & DENSITY
NASA-CR-59371 N64-33903 24-34

ENERGY BAND
ORTHOGONALIZED PLANE WAVE ENERGY-BAND STRUCTURE OF SOLIDS DETERMINED BY AUTOMATIC COMPUTER PROGRAM
LL-TR-295 N64-12928 04-23

CRYSTAL STRUCTURE - ENERGY BAND EVALUATION, SYMMETRY PROPERTIES, AND POTENTIALS
AD-429325 N64-18657 11-25

AUGMENTED PLANE WAVE METHOD FOR CALCULATING ENERGY BANDS IN CRYSTAL STRUCTURES N64-18658 11-25

ATOMIC ORBITAL AND ENERGY BAND CALCULATIONS WITH GAUSSIAN AND SLATER FUNCTIONS
NONR-1841/34/ N64-19267 11-25

HYDRONIUM ION ENERGY BANDS IN ICE CRYSTALS
NIJS-R-424 N64-21207 14-25

ABSORPTION SPECTRUM AND DISSOCIATION ENERGY OF GASEOUS CHLORINE FLUORIDE IN GROUND STATE
RSIC-183 N64-25220 17-07

ENERGY CONVERSION
SA FUEL CELL
SA PHOTOELECTRIC CELL
SA TRANSDUCER
CHEMICAL METALLURGY, FUEL CYCLES, CALORIMETRY, REACTOR SAFETY, & ENERGY CONVERSION
ANL-6687 N64-10395 01-07

CURRENT PASSAGE THROUGH A PLASMA DIODE WITH HEATED CATHODE FOR MAGNETOGASDYNAMIC ENERGY CONVERSION
JPRS-19408 N64-10821 02-24

CONVERSION OF DIRECT TO ALTERNATING CURRENT USING MAGNETORESISTANCE - THEORY AND EXPERIMENTS WITH MATERIALS, CONFIGURATIONS, AND CIRCUITS
NASA-CR-52910 N64-11793 03-23

CONVERTING CHEMICAL ENERGY INTO ELECTRICAL ENERGY
NASA-TT-F-136 N64-12692 04-06

DIRECT CONVERSION OF ATOMIC ENERGY TO ELECTRICAL ENERGY - FISSION-ELECTRIC CELL PROJECT
RM-3908-PR N64-13072 04-06

HYPERSONIC PLASMA GENERATOR FOR THERMAL-TO-ELECTRICAL ENERGY CONVERSION
SC-4960/RR/ N64-13901 05-24

CHARCOAL, WOOD, AND COW DUNG FOR FUEL IN THERMAL ENERGY CONVERSION SYSTEMS
QPR-5 N64-13958 05-06

PARA-ORTHO SHIFT OF HYDROGEN ENDOTHERMIC HEAT CONVERSION
ASD-TDR-62-833, PT. 2 N64-16608 08-19

COMPONENTS OF PORTABLE THERMOPHOTOVOLTAIC ENERGY CONVERTER
TR-64-16, FINAL N64-16789 08-06

ENGINEERING AND TECHNOLOGY OF CHEMICAL-TO-ELECTRICAL ENERGY CONVERSION DEVICES AND ACCESSORY EQUIPMENT
AD-431610 N64-16953 09-06

ENERGY CONVERSION PROBLEMS OF HIGH TEMPERATURE HYDROCARBON FUEL CELLS N64-17396 09-06

THERMIONIC CATHODE MATERIALS FOR CONVERSION OF FISSION HEAT TO ELECTRICAL ENERGY
NASA-CR-53220 N64-17589 09-04

COMBUSTION AND HEAT TRANSFER PERFORMANCE OF STEAM BOILER - MULTIFUELED THERMAL-ENERGY CONVERSION SYSTEMS
QPR-NO. 6 N64-19056 11-06

METHODS & INSTRUMENTATION FOR DIRECT ENERGY CONVERSION - THERMIONICS, MAGNETOHYDRODYNAMICS, AND THERMOELECTRICITY N64-19376 12-06

DIRECT ENERGY CONVERSION TECHNOLOGY - SOLAR CELLS, MAGNETOHYDRODYNAMICS, BATTERIES, AND THERMIONICS N64-19377 12-06

THERMIONIC ENERGY CONVERTER - ELECTRON DEVICE CONVERTING HEAT DIRECTLY INTO ELECTRICITY N64-19387 12-06

CONFERENCE ON DIRECT ENERGY CONVERSION
ANL-6802 N64-19826 12-01

DIRECT ENERGY CONVERSION - FOSSIL FUEL, NUCLEAR, AND SOLAR SOURCES OF ENERGY N64-19827 12-06

THERMAL AND PHOTON PROCESSES OF SOLAR ENERGY CONVERSION N64-19830 12-06

GERMANIUM SOLAR CELLS FOR RADIANT ENERGY CONVERSION N64-19838 12-06

CHARGED PARTICLE PROPULSION - DOUBLE ENERGY CONVERSION PROBLEM AND APPLICATION TO ELECTRIC PROPULSION SYSTEM FOR SPACE VEHICLES N64-19840 12-27

ENERGY CONVERSION - MAGNETOHYDRODYNAMIC POWER GENERATION N64-19841 12-06

CONVERSION OF ALPHA PARTICLE KINETIC ENERGY INTO ELECTRICITY N64-19848 12-23

ENERGY CONVERSION BY LIQUID METALS & ALKALI METALS IN MAGNETOHYDRODYNAMIC GENERATORS AND THERMIONIC ENERGY CONVERSION
AD-436857 N64-20159 13-06

OPEN-CIRCUIT VOLTAGES OF MOLTEN-SALT ELECTROLYTES FOR ENERGY CONVERSION - EFFECT OF ATMOSPHERIC PRESSURE CHANGES ON CELL VOLTAGE
NASA-CR-56014 N64-20647 13-21

NONEQUILIBRIUM IONIZATION FOR MAGNETOHYDRODYNAMIC ENERGY CONVERSION
QR-8 N64-21494 14-24

SMALL STEAM BOILERS OF MINIMUM SIZE AND WEIGHT FOR SOLID-FUEL-FIRED POWER SOURCE - MULTIFUELED THERMAL-ENERGY-CONVERSION SYSTEM
REPT.-7 N64-22975 16-13

EQUIVALENT CIRCUIT FOR DISTRIBUTED ENERGY CONVERTERS
NASA-RP-202 N64-23913 16-09

LIMITATIONS OF SOLAR COLLECTORS FOR ENERGY

CONVERSION SYSTEMS IN SPACECRAFT
ONERA-TP-100 N64-24002 16-15

ENERGY CONVERSION BY FLUORESCENCE PUMPING OF LASERS
NOTS-TP-3506 N64-25120 17-25

MECHANICAL ENERGY CONVERSION TO ELECTRIC ENERGY BY VARIATION OF MAGNETIC RELUCTANCE
NOLTR-63-233 N64-25209 17-06

BIOCHEMICAL FUEL CELL FOR ELECTROCHEMICAL ENERGY PRODUCTION
NASA-CR-54051 N64-25906 18-16

PLASMA GENERATOR FOR CONVERSION OF HEAT INTO ELECTRICAL ENERGY AND NUCLEAR POWER UNIT FOR SPACE FLIGHT
FTD-TT-64-295/1 N64-26114 18-23

THERMIONIC AND THERMOELECTRIC ENERGY CONVERSION
NASA-CR-58125 N64-26371 18-06

DECELERATION AND ENERGY CONVERSION IN PLASMA EXPANDING IN VACUUM IN PRESENCE OF MAGNETIC FIELD
NASA-TT-F-239 N64-26837 18-24

HIGH ENERGY PULSE GENERATION BY ELECTROMECHANICAL POWER CONVERSION N64-27119 19-06

NEW CONCEPTS OF ENERGY CONVERSION - THERMIONIC ENERGY CONVERTERS AND MAGNETOHYDRODYNAMIC POWER GENERATION
QTPR-3 N64-27736 19-24

PRELIMINARY WEIGHT ESTIMATES FOR ADVANCED DYNAMIC ENERGY CONVERSION SYSTEMS
ASD-TDR-63-705 N64-28158 20-06

RADIANT ENERGY CONVERSION USING THIN DIELECTRIC FILMS
AIAA PAPER-64-729 N64-28408 20-06

ENERGY EXCHANGE AND CONVERSION AT EARTH SURFACE
N64-28616 20-21

ELECTROCHEMICAL ENERGY CONVERSION FOR NONAQUEOUS RESERVE BATTERY SYSTEMS
NAVWEPS-8193 N64-28789 20-06

DECREASE IN SOLAR CELL THICKNESS FOR PHOTOVOLTAIC SOLAR ENERGY CONVERSION SYSTEMS IN SPACE VEHICLES
N64-29167 21-06

FREQUENCY DISTRIBUTION AND DIURNAL VARIATION OF WIND TO ESTIMATE ENERGY EXTRACTABLE BY WINDMILL
TN-WP-27-63 N64-29422 21-21

ENERGY CONVERSION & STORAGE SYSTEMS AND DEVICES - CONFERENCE N64-29484 21-06

POWER DENSITY AND STORAGE CAPACITY IN STORAGE AND CONVERSION SYSTEMS FOR WIND AND SOLAR ENERGY
N64-29486 21-06

ECONOMICS OF ENERGY STORAGE & CONVERSION SYSTEMS
N64-29487 21-06

HIGH PRESSURES AND LIQUID-GAS INTERFACE PROBLEMS IN HYDROX FUEL CELL USED FOR ENERGY CONVERSION AND STORAGE N64-29488 21-06

HIGH PRESSURE ELECTROLYSIS AND HYDROX FUEL CELL FOR HIGH EFFICIENCY ENERGY CONVERSION AND STORAGE
N64-29489 21-06

SOLAR-ELECTRIC ENERGY CONVERSION WITH INTERMEDIATE STORAGE N64-29491 21-06

CONVERSION OF PLASMA KINETIC ENERGY TO ELECTROMAGNETIC ENERGY - EVALUATION OF CYCLOTRON RADIATION FROM PLASMA AS ENERGY SOURCE IN RADAR SYSTEMS
RADC-TDR-64-174 N64-29966 21-24

LIQUID THERMOELECTRIC MATERIALS APPLIED TO DIRECT ENERGY CONVERSION
QPR-4 N64-30083 21-25

ENERGY CONVERSION THROUGH MAGNETOPLASMADYNAMICS
N64-30428 22-24

METHODS FOR ENERGY CONVERSION IN BIOCHEMICAL FUEL CELLS, PLASMA PHYSICS, AND THERMAL ENERGY STORAGE
NASA-CR-58809 N64-30521 22-06

EMITTER-COLLECTOR PAIRS FOR GAS PLASMA THERMIONIC ENERGY CONVERSION
MD-6827 N64-30527 22-06

MULTIPURPOSE ENGINE AND FUEL SYSTEM FOR MANNED LUNAR BASES - ENERGY CONVERSION SYSTEMS
WANL-PR/S/002-8 N64-31150 22-10

THERMIONIC ENERGY CONVERSION RESEARCH
N64-31878 23-06

GENERATOR FOR DIRECT CONVERSION OF ALPHA PARTICLE ENERGY TO ELECTRICITY
NASA-CR-54162 N64-32021 23-06

ENERGY COLLECTION & CONVERSION SYSTEMS FOR SOLAR MECHANICAL ENGINE
CDRD-64-5039 N64-32358 23-06

THERMOMOLECULAR PRESSURE RISE IN GAS APPLIED TO ENERGY CONVERSION
ASD-TDR-63-776, VOL. II N64-32567 23-11

DIRECT ENERGY CONVERSION SYSTEMS - FUEL CELLS, MAGNETOGASDYNAMICS, THERMOELECTRICITY
AD-406355 N64-32867 24-24

MAGNETOGASDYNAMIC, FUEL CELL, AND THERMOELECTRIC ENERGY CONVERSION
AD-423164 N64-32963 24-24

MAGNETOGASDYNAMIC ENERGY CONVERSION IN COMBUSTION GAS GENERATOR AND SHOCK TUBE, AND ELECTROCHEMICAL RESEARCH ON FUEL CELLS
AD-430023 N64-32964 24-24

CATALYSIS IN ELECTROCHEMICAL ENERGY CONVERSION AND ELECTROCHEMICAL OXIDATION OF HYDROCARBON PARALLEL REACTIONS
NASA-CR-59094 N64-33197 24-07

CATALYSIS IN ELECTROCHEMICAL ENERGY CONVERSION
N64-33198 24-07

HIGH CURRENT SWITCHING DEVICES - DEVELOPMENT OF MATHEMATICAL MODELS REPRESENTING ENERGY CONVERSION SYSTEMS IN POWER RELAY
NASA-CR-59002 N64-33207 24-09

CHEMICAL AND MECHANICAL ENERGY CONVERSION BY MACROMOLECULAR SYSTEMS IN CONTRACTILES
AD-600541 N64-33677 24-07

GALVANIC CELL CONVERSION OF HEAT TO ELECTRICAL ENERGY
IITRI-C6006-10 N64-33715 24-06

EFFECTS OF PARTIAL CONDENSATION AROUND IONS IN ELECTROHYDRODYNAMIC ENERGY CONVERSION
GSP-64 N64-33832 24-11

ENERGY CONVERSION EFFICIENCY
EFFECT OF SHIELDING ON SOLAR ENERGY CONVERSION EFFICIENCY OF SYNCOM II SOLAR CELL ASSEMBLY
N64-29161 21-06

ENERGY CONVERTER
CONVERSION OF ENERGY BY SEA WATER BATTERY PLUS TUNNEL DIODE CONVERTER AS POWER SOURCE
NRL-5961 N64-15129 07-06

SILICON CRYSTALS, NITROGEN-SULFUR SYSTEMS, PHOTOCHEMISTRY, PLASMAS, AND CHELATES USED IN ENERGY CONVERSION SYSTEMS
AFCRL-63-940 N64-15489 07-01

CAPACITOR EQUIPMENT PERFORMANCE AND RELIABILITY STUDY FOR STATIC INVERTERS AND CONVERTERS
NASA-CR-55745 N64-15878 07-09

THIN FILM LARGE AREA PHOTOVOLTAIC SOLAR ENERGY

CONVERTER
NASA-CR-54065 N64-20741 13-06

THERMOELECTRIC ENERGY CONVERSION AND COMPOUND SEMICONDUCTOR MATERIALS FOR CONVERTER APPLICATIONS
AD-601039 N64-21169 14-25

PLASMA THERMIONIC ENERGY CONVERTERS USING BARIUM AS VAPOR MATERIAL
MND-2933-2 N64-21345 14-06

CADMIUM TELLURIDE ENERGY CONVERTERS
NASA-CR-56509 N64-23522 16-09

CADMIUM TELLURIDE ENERGY CONVERTER
NASA-CR-56512 N64-23523 16-09

CADMIUM TELLURIDE ENERGY CONVERTERS
NASA-CR-56555 N64-23989 16-06

LIGHTWEIGHT SOLAR COLLECTORS FOR CONVERSION OF THERMAL ENERGY TO ELECTRICITY
NASA-RP-223 N64-24556 17-05

LOW WORK FUNCTION COLLECTOR FOR THERMIONIC ENERGY CONVERTERS
ATSR-1 N64-25686 17-13

CESIUM NEUTRAL AND IONIC SPECIES IN THERMIONIC ENERGY CONVERTERS
GA-5401 N64-29299 21-24

CADMIUM TELLURIDE ENERGY CONVERTER - NEW ZONE REFINING TECHNIQUE
NASA-CR-56836 N64-29514 21-06

CATALYTIC COMBUSTION HEAT SOURCES FOR THERMAL ENERGY CONVERTERS
F-82088 N64-29914 21-06

THERMIONIC ENERGY CONVERTERS AND INVESTIGATION OF HIGH-EFFICIENCY PROCESS OF HOLLOW-CATHODE DISCHARGE
AFCRL-64-560 N64-31402 23-06

METHODICAL ERRORS IN DIFFERENTIAL STRING CONVERTER OF ENERGY INTO FREQUENCY N64-31864 23-23

CATALYTIC COMBUSTION HEAT SOURCES USING LEADED GASOLINE BURNER FOR THERMAL ENERGY CONVERTERS
REPT.-3 N64-32601 23-06

ENERGY DISSIPATION
PROBLEMS OF LOCALLY ISOTROPIC TURBULENT MEDIUM - STRUCTURAL & SPECTRAL FUNCTIONS AND ENERGY DISSIPATION FIELD
MRC-416 N64-12247 03-11

DISSIPATION OF HYDROMAGNETIC WAVE ENERGY IN IONOSPHERE N64-21834 15-12

MOTION OF CHARGED PARTICLES IN FIELD OF MAGNETIC DIPOLE WITH ALLOWANCE FOR ENERGY DISSIPATION
NASA-TT-F-8830 N64-23045 16-23

CELLULAR ALUMINUM MATERIALS FOR USE IN ENERGY DISSIPATION SYSTEMS
NASA-CR-93 N64-28313 20-18

EFFECT OF VARIATIONS OF BOUNDARY LAYER CONDITIONS ON ATMOSPHERIC BOUNDARY LAYER
AD-429496 N64-29531 21-21

CLIMATOLOGICAL PATTERN OF MECHANICAL ENERGY DISSIPATION IN LOWER ATMOSPHERE OVER NORTHERN HEMISPHERE N64-29533 21-21

MAGNETIC ENERGY DISSIPATION IN SOLAR ATMOSPHERE BOTH IN STEADY PLAGE CONDITION AND IN SOLAR FLARE EVENTS N64-30294 22-28

MECHANISM FOR DISSIPATION OF MAGNETIC FIELD IN SOLAR FLARES N64-30299 22-28

BOUNDS ON RATE OF ENERGY DISSIPATION IN BODY DEFORMING BY SECONDARY CREEP
TR-38 N64-32810 24-33

VIBRATORY ENERGY DISSIPATION AT MULTI-POINT FASTENED STRUCTURAL JOINTS
FDL-TDR-64-98 N64-33910 24-33

ENERGY DISTRIBUTION
PROBLEMS OF LOCALLY ISOTROPIC TURBULENT MEDIUM - STRUCTURAL & SPECTRAL FUNCTIONS AND ENERGY DISSIPATION FIELD
MRC-416 N64-12247 03-11

ENERGY DEPOSITION DISTRIBUTION IN WATER-FILLED PHANTOM DUE TO 14-MEV & POLONIUM-BERYLLIUM
N64-12547 04-23

DETECTOR-ANALYZER FOR STUDYING PROTON AND ION ENERGY DISTRIBUTION IN INTERPLANETARY SPACE AT SATELLITE ALTITUDES
NASA-TN-D-2111 N64-14727 06-24

ENERGY AND MASS DISTRIBUTIONS OF FISSION FRAGMENTS PRODUCED BY HEAVY ION BOMBARDMENT
UCRL-11193 N64-16549 08-23

ENERGY DISTRIBUTION IN ATMOSPHERE BY DELAYED GAMMA RADIATION FROM FISSION OF URANIUM
LAMS-3059 N64-19720 12-12

SPACE-ENERGY NEUTRON DISTRIBUTION NEAR BOUNDARY OF THICK URANIUM SHIELD OF FAST REACTOR WITH REFLECTORS BEHIND SHIELD
FTD-TT-63-977/1&2&4 N64-19751 12-23

PROBE FOR MEASURING ENERGY DISTRIBUTIONS OF IONS IN INTERPLANETARY SPACE & AT SATELLITE ALTITUDES
NASA-TM-X-51042 N64-20584 13-20

INFLUENCE OF PROBE POTENTIAL ON ELECTRON ENERGY DISTRIBUTION IN PLASMA
WRE-TN-CPD-83 N64-20633 13-24

MEAN VELOCITY GRADIENT EFFECTS ON REDISTRIBUTION OF TURBULENT ENERGY IN WEAK SHEAR FLOW
NASA-RP-194 N64-22087 15-11

PROBE CHARACTERISTICS OF ELECTRON AND ION CURRENTS AND ENERGY DISTRIBUTION OF NICKEL ATOMS DURING CATHODE SPUTTERING OF NICKEL BY MERCURY IONS
FTD-TT-64-380/1&2&4 N64-26995 19-23

ENERGY DISTRIBUTION OF NICKEL ATOMS DURING CATHODE SPUTTERING OF NICKEL BY MERCURY ION
N64-26997 19-23

ENERGY AND ANGULAR DISTRIBUTION OF RADIATION EMERGING FROM TEST SLABS IRRADIATED WITH NARROW BEAM OF NEUTRONS AND GAMMA RAYS
NARF-62-16T N64-28907 20-23

PRESSURE-TIME HISTORY IN HIGH PRESSURE SHOCK TUBE DRIVER AND EFFICIENCY OF ENERGY INPUT OF WAVE HEATING PROCESS
NASA-CR-58490 N64-29229 21-11

PHYSICAL PROPERTIES, FLUORESCENCE, AND THEORETICAL ENERGY DISTRIBUTION OF GLASS FOR LASER
AD-443680 N64-30591 22-23

ENERGY EQUATION
PERTURBATION SOLUTIONS AND ENERGY EQUATION IN LAMINAR BOUNDARY LAYER THEORY - MATHEMATICS
PIBAL-752 N64-13120 04-11

ENERGY EQUATIONS FOR CONTROL PROBLEMS IN STABILIZATION OF PLATFORMS
FTD-TT-63-1111/1&2&4 N64-20371 13-20

COMPLEMENTARY ENERGY METHOD FOR STATICALLY LOADED STRUCTURES WITH FINITE DEFORMATIONS
ME-836-639 N64-20773 14-03

DERIVATION OF DISCONTINUITY CONDITIONS IN CONTINUUM MECHANICS FROM ENERGY EQUATIONS
AM-64-11 N64-30699 22-23

DYNAMICAL THEORY OF INTERACTING CONTINUA DEVELOPED FROM ENERGY EQUATION
AM-64-13 N64-33472 24-11

ENERGY EQUIPARTITION
ENERGY AND MOMENTUM EXCHANGE BETWEEN COMPONENTS OF

NON-EQUIPARTITION GAS MIXTURE
ARAP-45 N64-32388 23-11

ENERGY EXCHANGE
MIGRATION OF ENERGY BETWEEN TRYPTOPHAN RADICALS IN PROTEIN MACROMOLECULE
JPRS-23991 N64-18318 10-16

QUANTUM THEORY OF VIBRATIONAL ENERGY EXCHANGE - TRANSITION PROBABILITIES ASSOCIATED WITH INELASTIC COLLISIONS OF ATOMS N64-23208 16-23

INTERACTION OF ATOMS WITH SURFACE OF SOLID - ENERGY AND MOMENTUM EXCHANGE IN PARTICLE COLLISION N64-27981 20-11

ENERGY EXCHANGE AND CONVERSION AT EARTH SURFACE N64-28616 20-21

ANALOG COMPUTER STUDY OF ENERGY EXCHANGE BETWEEN GASES AND SOLIDS
AFOSR-64-1001 N64-29249 21-23

QUANTITATIVE ANALYSES BY OPTICAL EMISSION SPECTROSCOPY OF ENERGY EXCHANGE MECHANISMS IN RARE GASES AND SOLIDS
AD-442965 N64-30618 22-23

ENERGY EXCHANGE IN HYPERTHERMAL SUPERSONIC WIND TUNNEL
NASA-RP-360 N64-33990 24-10

ENERGY LEVEL
SA EXCITATION
SA GROUND STATE
ENERGY LEVELS OF DEFECT CENTERS IN ELECTRON AND PROTON BOMBARDED SILICON - HALL COEFFICIENT & HALL MOBILITY
NASA-CR-51528 N64-10084 01-23

OPTICAL PUMPING OF GASES AND APPLICATIONS TO STUDY OF ENERGY LEVELS, MAGNETIC FIELD, AND TIME MEASUREMENTS N64-11071 02-23

ENERGY VALUES AND ISOTOPE SHIFTS OF ONE P AND THREE P LEVELS OF HELIUM AND LITHIUM
NASA-CR-52694 N64-11380 02-23

ENERGY DISTRIBUTIONS FOR ATOMS SPUTTERED FROM COPPER & POLYCRYSTALLINE SURFACES UNDER MERCURY & NOBLE GAS BOMBARDMENT
AD-424612 N64-12476 04-23

ENERGY DISTRIBUTIONS FOR ATOMS SPUTTERED FROM COPPER & POLYCRYSTALLINE SURFACES BOMBARDED BY MERCURY & NOBLE GAS IONS N64-12479 04-23

ENERGY DISTRIBUTIONS OF COPPER ATOMS SPUTTERED BY HELIUM, NEON, ARGON, XENON, AND MERCURY N64-12480 04-23

ENERGY DISTRIBUTIONS OF SPUTTERED ATOMS FOR VARIOUS POLYCRYSTALLINE TARGETS N64-12481 04-23

LUMINESCENCE OF COMPLEX ORGANIC MOLECULES DURING ENERGY LEVEL CONVERSION
AID-B-63-125 N64-14021 05-23

OPACITY CALCULATION OF ENERGY LEVELS, WAVE FUNCTIONS, ELECTRONIC OCCUPATION, TRANSITIONS, AND MOLECULAR SCATTERING
LAMS-3002 N64-14056 05-23

PROCESS FOR DIVIDING HOMOGENEOUS FLOW INTO SEPARATE HOMOGENEOUS FLOWS AT DIFFERENT ENERGY LEVELS
TR-AE-6401 N64-14403 06-11

ENERGY LEVEL CONTRIBUTION TO MAGNETIC DIPOLE AND ELECTRIC QUADRUPOLE HYPERFINE INTERACTIONS
AMRA-TR-63-17 N64-14697 06-23

INTERACTION ENERGY LEVELS AND TRANSPORT COEFFICIENTS OF LITHIUM-HYDROGEN AND OXYGEN-HYDROGEN GAS MIXTURES AT HIGH TEMPERATURES N64-15275 07-23

ABSORPTION COEFFICIENTS FOR PHASE SHIFT ANALYSIS OF PION SCATTERING IN PION-PION ENERGY LEVEL
RIFP-30 N64-15772 07-23

SHELL MODEL STUDY OF CHLORINE AND NUCLEI WITH 36 NUCLEONS - BEHAVIOR AND EIGENVECTOR PROPERTIES IN LOW ENERGY LEVEL
KFKI-1491/F N64-15989 07-23

WAVE FUNCTION CALCULATION OF ENERGY STATES OF THREE ELECTRON SYSTEMS FOR ISOTOPE SHIFT, DIPOLE POLARIZABILITY, AND HYPERFINE SPLITTING STUDIES N64-17011 09-23

RUBY S-SERIES ABSORPTION SPECTRAL LINE SERIES - RELATED TO CHROMIUM-ION ENERGY-LEVEL SPLITTING N64-17344 09-25

INTENSITY OF BETA RADIATION AT FUEL ELEMENT SURFACE SOLVED USING BETA ENERGY LEVEL EMISSION FROM FISSION PRODUCTS
HW-79814 N64-17497 09-23

CALCULATION OF ABSORPTION RATE OF ELECTRONS IN ATOMIC OUTER ENERGY LEVELS
JPRS-24099 N64-17977 10-16

VACANCY INTERACTION ENERGIES IN SILVER WIRE FROM ELECTRICAL RESISTIVITY INCREASE
FTD-TT-63-124/162 N64-19181 11-25

ENERGIES AND WAVE FUNCTIONS OF NITROGEN OXIDE FREE RADICAL AND MOLECULAR STRUCTURES
AFCRL-64-123 N64-20162 13-23

VIBRATIONAL AND ROTATIONAL ENERGY LEVELS IN ATOMIC AND MOLECULAR SYSTEMS IN SOLID STATE
WR-AF-5 N64-21435 14-25

MEASUREMENT AND SHELL MODEL INTERPRETATION OF LOW-LYING NUCLEAR ENERGY LEVELS OF NIOBIUM 92
ORNL-3638 N64-23362 16-23

DETERMINATION OF PERTURBATION POTENTIAL FROM SCATTERING PHASE SHIFT & BOUND STATE ENERGY LEVELS
NASA-CR-56406 N64-24115 16-23

POTENTIAL ENERGY CURVES FOR ELECTRONIC STATES OF DIATOMIC MOLECULES
AD-438051 N64-25641 17-23

MOLECULAR BEAM DETERMINATION OF ENERGY LEVELS IN PHOTODISSOCIATION OF POLYATOMIC MOLECULES
UCRL-11359 N64-25817 17-23

REDUCED ENERGIES FOR ASYMMETRIC TOP MOLECULES
RE-172 N64-25921 18-05

EFFECT OF FOREIGN GAS ON DISPLACEMENT OF LINES IN ABSORPTION SPECTRUM OF ATOMS - WIDTH OF ENERGY LEVELS OF AN ATOM WITH HIGH PRINCIPLE QUANTUM NUMBER
AID-T-64-18 N64-28072 20-23

ENERGY LEVELS OF TRANSITION METAL IMPURITIES IN SEMICONDUCTORS N64-28667 20-25

CONFIGURATION INTERACTION EFFECTS ON ENERGY OF GROUND STATE OF BERYLLIUM ISOELECTRONIC SERIES
T-R-405 N64-28798 20-23

ENERGY DEPENDENCE OF ELECTRON DAMAGE IN SILICON N64-29157 21-06

ENERGY MINIMUM PRINCIPLE FOR HARTREE-FOCK CALCULATIONS OF CERTAIN EXCITED ATOMIC STATES
RR-TR-64-9 N64-29347 21-23

SHELL ENERGY LEVELS FOR NITROGEN 15 AND OXYGEN 15
NOLTR-64-46 N64-29584 21-23

NUCLEAR MODEL TO EXPLAIN ENERGY LEVELS OF NUCLIDE IRON 57
USNRDL-TR-742 N64-29854 21-23

TECHNIQUES OF OBTAINING POPULATION INVERSIONS IN MOLECULAR VIBRATIONAL ENERGY LEVELS TO BE USED TO GENERATE COHERENT INFRARED RADIATION
VARIAN-314-15 N64-30159 21-25

ENERGY LEVELS OF MANY-FERMION SYSTEM BY METHOD EQUIVALENT TO RANDOM PHASE APPROXIMATION
TH-42 N64-30492 22-23

ENERGY LOSS
ZERO ENERGY LOSS DIRAC-COULOMB INTEGRALS EVALUATED USING CONTOUR INTEGRATION TECHNIQUE
AD-427692 N64-13932 05-09

FREQUENCY DISTRIBUTIONS OF ALPHA PARTICLE ENERGY LOSS PASSING THROUGH ABSORBER OF VARIABLE THICKNESS
NYO-10716 N64-16025 07-23

RADIANT ENERGY LOSS FROM CESIUM-ARGON PLASMA TO INFINITE PARALLEL PLANE ENCLOSURE
AVCO-EVERETT RES. REPT.-175 N64-17119 09-24

ENERGY LOSSES AND CHARACTERISTICS OF ELECTRIC ARC DISCHARGE FOR WELDING APPLICATIONS
FTD-TT-62-1818/1&2 N64-20310 13-17

ENERGY LOSS OF ELECTRON BEAM IN PLASMA
IPPJ-22 N64-20523 13-24

VIBRATIONAL ENERGY LOSSES AT JOINTS IN METAL STRUCTURES N64-23162 16-33

EFFICIENCY OF RADIAL-AXIAL TURBINE AS AFFECTED BY AERODYNAMIC PROPERTIES OF RUNNER
FTD-TT-62-1801/1&2&4 N64-23293 16-11

ENERGY LOSS IN FAST IONS OF RARE GASES AFTER COLLISION WITH HELIUM AND NEON ATOMS
NASA-TT-F-8941 N64-30835 22-11

HIGH RESOLUTION ENERGY LOSS MAGNETIC ANALYZER FOR SCATTERING EXPERIMENTS
LNF-64/41 N64-32007 23-10

ENERGY REQUIREMENT
CF METABOLISM
ENERGY REQUIREMENTS FOR VOLUME ION PRODUCTION IN TENUOUS HELIUM PLASMA
NASA-TN-D-2324 N64-20193 13-24

ENERGY REQUIREMENTS OF COSMIC RADIO SOURCES
NASA-CR-58133 N64-26807 18-28

ENERGY REQUIREMENT FOR ION PRODUCTION BY ELECTRON BOMBARDMENT IN HELIUM, ARGON, AND CESIUM GASES
NASA-TM-X-52064 N64-32438 23-24

COMPARATIVE PROPULSION SYSTEMS AND ENERGY REQUIREMENTS FOR SPACE MANEUVERS - MISSION ANALYSIS OF SOLAR HYDROGEN PROPULSION SYSTEMS
NASA-CR-59366 N64-33917 24-27

ENERGY SOURCE
EFFICIENCY OF RESPIRATION AS ENERGY SOURCE IN THERMOPHILIC PLANT
JPRS-21501 N64-10067 01-16

BIOCHEMICAL PROBE INTO ENERGY SOURCE COMPOUNDS, ENZYME INHIBITORS, AND RADIOBIOLOGY
JPRS-19995 N64-12570 04-16

ELECTRICAL MODEL OF NEURISTOR WITH ENERGY SOURCE, STORAGE DEVICE AND NONLINEAR DISCHARGING RESISTOR
JPRS-23046 N64-14527 06-09

ATMOSPHERIC ENERGY DEPOSITION FROM HIGH ALTITUDE GAMMA RAY SOURCES
RM-3594-PR N64-21828 15-12

ENERGY SOURCES FOR COMBUSTION OSCILLATIONS - SYSTEM, TRANSITION, AND ACOUSTICAL INSTABILITIES N64-26008 18-26

ENERGY SOURCES AND TRANSMISSION METHODS FOR FUTURE
FTD-TT-63-1088/1 N64-26037 18-01

SODIUM-BROMINE FUEL CELL AS ENERGY SOURCE FOR HIGH POWER PULSE N64-27113 19-06

METAL WHISKERS - INDUCED GROWTH, GROWTH MECHANISM, ENERGY SOURCES FOR GROWTH, MAGNETIC PROPERTIES, AND RADIATION EFFECTS N64-28218 20-25

NATURE OF SOLAR FLARES - MAGNETIC FIELD ENERGY SOURCE AND PREDICTION OF FLARE OCCURRENCE N64-30298 22-28

SOLAR FLARE PROCESS - SOLAR WIND AS ENERGY SOURCE, MAGNETIC STORAGE OF ENERGY, AND PARTICLE ACCELERATION N64-30302 22-28

ENERGY SPECTRUM
PROTON ENERGY SPECTRUM VARIATION WITH POSITION IN INNER VAN ALLEN BELT
NASA-RP-11 N64-11200 02-28

SYNCHROCYCLOTRON PROTON BEAM INTENSITY MONITORING FOR ENERGY SPECTRUM MEASUREMENTS OF NUCLEAR SECONDARIES N64-12551 04-23

ENERGY SPECTRA MEASUREMENTS OF NUCLEAR SECONDARIES BY OAK RIDGE ISOCHRONOUS CYCLOTRON N64-12552 04-23

PROTON-RECOIL SPECTROMETERS FOR MEASURING NEUTRON AND PROTON ENERGY SPECTRA FROM 10 TO 450-MEV N64-12553 04-23

NEUTRON LIFETIME OF CADMIUM AND ZINC AT DIFFERENT ENERGY STATES - ZERO-FIELD HYPERFINE INTERVAL MEASUREMENTS
AD-424139 N64-14043 05-23

FLUX AND ENERGY SPECTRUM MEASUREMENTS OF HYDROGEN, HELIUM, AND HEAVY NUCLEI FROM SOLAR FLARES
NASA-RP-19 N64-14857 06-28

PERTURBATION THEORY FOR DISCRETE AND CONTINUOUS SPECTRA
AEET/CD/19 N64-15721 07-23

INFLUENCE OF CONCENTRATION OF COMPONENTS IN IRON-CHROMIUM ALLOYS ON STRUCTURE OF ENERGY SPECTRUM OF CHROMIUM & IRON CONDUCTIVITY ZONE N64-17052 09-23

ENERGY SPECTRA AND ANGULAR DISTRIBUTIONS OF ELECTRONS TRANSMITTED THROUGH ALUMINUM OXIDE FOILS
NASA-SP-3008 N64-18416 10-23

SOLID STATE DETECTOR FOR PROTON ENERGY SPECTRUM MEASUREMENTS - SATELLITE INSTRUMENTATION
NASA-CR-53510 N64-19983 12-15

TECHNIQUE FOR MEASURING ISOTOPICALLY RESOLVED ENERGY SPECTRA OF HIGH ENERGY PARTICLES - HYDROGEN AND HELIUM ISOTOPES
ATN-64/9234/-2 N64-21368 14-23

ISOTOPIC COMPOSITION AND ENERGY SPECTRUM OF LOW ENERGY HELIUM NUCLEI IN PRIMARY COSMIC RADIATION
URPA-31 N64-23173 16-28

PLASMA ENERGY SPECTRUM MEASUREMENTS BY INTERPLANETARY MONITORING PLATFORM I /IMP-I/ SATELLITE
NASA-TM-X-55004 N64-23929 16-24

ENERGY SPECTRA OF COSMIC RAY VARIATIONS DURING MAGNETIC STORMS N64-24424 17-28

CHARGE AND ENERGY SPECTRA OF PRIMARY AND SECONDARY COSMIC RAYS WITH CHARGE LOWER THAN 3 AT 46 DEGREE GEOMAGNETIC LATITUDE N64-25824 17-29

ENERGY SPECTRA OF IONS SCATTERED BY POLYCRYSTALLINE SURFACES OVER SMALL ANGLES
FTD-TT-64-543/1&2&4 N64-26211 18-23

ENERGY SPECTRUM AND WIND TUNNEL TESTING OF TURBULENCE FLUCTUATION N64-26324 18-11

ENERGY SPECTRA OF PROTONS IN OUTER RADIATION BELT
NASA-TM-X-55007 N64-27247 19-28

PLASMA PROBE FOR MARINER A SPACECRAFT, TO DETERMINE DENSITY, ENERGY SPECTRA, AND DIRECTION OF MOTION OF PROTONS AND ELECTRONS IN PLASMA
NASA-CR-56794 N64-27821 19-32

ENERGY AND TIME BETA-RAY SPECTRA FROM FISSION OF URANIUM AND PLUTONIUM N64-28217 20-23

VELOCITY DEPENDENCE AND SOURCE SPECTRA OF SOLAR PROTON EVENTS N64-30284 22-28

SOLUTION FOR INERTIAL ENERGY SPECTRUM OF ISOTROPIC TURBULENCE
TR-64-02F N64-30528 22-11

LINEAR ENERGY TRANSFER SPECTRUM OF PROTON EXPOSURE ON MERCURY MISSION MA-9
NASA-CR-58948 N64-31553 23-16

CHARGED PARTICLE FLUX AND ENERGY SPECTRA IN LAYERS OF MAGNETOSPHERE DETERMINED BY P-11 SUBSATELLITE
ASE-546 N64-31843 23-28

DIFFERENTIAL AND INTEGRAL ENERGY SPECTRA OF ELECTRONS AND PROTONS IN MAGNETOSPHERE DETERMINED BY CORPUSCULAR RADIATION INSTRUMENTATION IN P-11 SUB-SATELLITE N64-31844 23-28

MEASUREMENTS OF ENERGY SPECTRA OF CORPUSCULAR RADIATION IN MAGNETOSPHERE LAYERS BY P-11 SUB-SATELLITE
ASE-604 N64-31845 23-28

ENERGY SPECTRA OF PULSED RANDOM PROCESSES N64-32922 24-08

ENERGY SPECTRUM OF HYDROGEN PLASMA IN TRANSVERSE MAGNETIC FIELD
NASA-TT-F-8970 N64-33378 24-24

ENERGY STORAGE
SA ELECTRIC ENERGY STORAGE
ENERGY-STORING MOLECULAR PRODUCTS OF RADIATION IN LIQUID HYDROGEN
NARF-62-15T N64-14037 05-19

FEASIBILITY OF THERMAL ENERGY STORAGE FOR ORBITING SOLAR SPACE POWER SYSTEMS
WADD-TR-61-118 N64-16788 08-06

ONE-DIMENSIONAL HEAT TRANSFER ANALYSIS OF THERMAL-ENERGY STORAGE FOR SOLAR DIRECT-ENERGY CONVERSION SYSTEMS
NASA-TN-D-2119 N64-17294 09-13

BIOCHEMICAL FUEL CELLS, PLASMA PHYSICS - MHD AND THERMIONICS, THERMAL ENERGY STORAGE, THERMAL TRANSPORT, AND SOLAR REFLECTOR RESEARCH
NASA-CR-53557 N64-18304 10-23

GENERATION OF HIGH ENERGY PULSES AND STORAGE OF ELECTRICAL ENERGY N64-27116 19-06

ENERGY CONVERSION & STORAGE SYSTEMS AND DEVICES - CONFERENCE N64-29484 21-06

APPLICATIONS OF ENERGY STORAGE SYSTEMS USING VARIOUS ENERGY SOURCES N64-29485 21-06

POWER DENSITY AND STORAGE CAPACITY IN STORAGE AND CONVERSION SYSTEMS FOR WIND AND SOLAR ENERGY N64-29486 21-06

ECONOMICS OF ENERGY STORAGE & CONVERSION SYSTEMS N64-29487 21-06

HIGH PRESSURES AND LIQUID-GAS INTERFACE PROBLEMS IN HYDROX FUEL CELL USED FOR ENERGY CONVERSION AND STORAGE N64-29488 21-06

HIGH PRESSURE ELECTROLYSIS AND HYDROX FUEL CELL FOR HIGH EFFICIENCY ENERGY CONVERSION AND STORAGE N64-29489 21-06

TWO ENERGY STORAGE SYSTEMS - STORAGE IN HIGH INTENSITY MAGNETIC FIELDS AND BY ELECTROLYSIS OF WATER STORING HYDROGEN AT HIGH PRESSURE N64-29490 21-06

OBSERVED EFFECTS OF MAGNETIC ENERGY STORAGE AND RELEASE CONNECTED WITH SOLAR FLARES N64-30266 22-28

METHODS FOR ENERGY CONVERSION IN BIOCHEMICAL FUEL CELLS, PLASMA PHYSICS, AND THERMAL ENERGY STORAGE
NASA-CR-58809 N64-30521 22-06

BINARY EUTECTIC OF METALS OR SALTS AS THERMAL ENERGY STORAGE SYSTEM - EQUILIBRIUM PROPERTIES
NASA-CR-51748 N64-33777 24-13

ENERGY TRANSFER
SA ANTENNA COUPLER
CF MASS TRANSFER
ENERGY TRANSFER EFFICIENCY OF RESONANT DISCHARGE CIRCUIT, AND ASSESSMENT OF KINETIC ENERGY OF GAS N64-10144 01-27

MOMENTUM AND ENERGY TRANSFER MECHANISMS, THRUST EFFICIENCY, ANNULAR GEOMETRY, AND CYLINDRICAL FORM IN HALL CURRENT ACCELERATOR
NASA CR-52448 N64-10342 01-23

RESPIRATION AND ENERGY TRANSFORMATION IN LIVING ORGANISMS N64-10797 02-16

EFFECT OF RATE OF ENERGY RELEASE IN ELECTRIC EXPLOSIONS IN WATER & DISTRIBUTION OF EXPLOSIVE ENERGY N64-11716 03-11

MASS & ENERGY TRANSFER, FLOW CHARACTERISTICS, KINETICS OF VARIOUS SYSTEMS, AND STATE EQUATIONS FOR HELIUM AND OXYGEN
JPRS-22321 N64-11965 03-01

ENERGY- AND MASS-TRANSFER PROCESS EFFICIENCY INDICES N64-11978 03-13

MASS AND ENERGY TRANSFER IN GRAY GASES N64-11982 03-13

INITIAL HEATING RATE & ENERGY INPUT FOR EXPLODING WIRES
BRL-MEMO-1506 N64-12169 03-23

TRIPLET-TRIPLET ENERGY TRANSFER IN GLASSES - SOLVENT EFFECT
TDR-269/4240-30/-1 N64-12185 03-23

MICROWAVE COUPLING AND ENERGY PARTITION AND TRANSFER WITHIN PLASMA GAS COMPOSITION
AFCRL-63-199/1/ N64-14218 06-24

SOLID PROPELLANT IGNITION ANALYSIS - ENERGY OUTPUT TO MOTOR IGNITION
TM-235-SRP N64-14441 06-26

SOPHIST-5 - IBM 7090 AND 7094 FORTRAN II COMPUTER CODE WHICH CALCULATES ENERGY TRANSFER MATRICES FOR NEUTRON ELASTIC SCATTERING
UCRL-7624 N64-17074 09-20

INJECTION OF FOREIGN GAS INTO LAMINAR AIR BOUNDARY LAYER - HEAT AND MASS TRANSFER PROBLEMS SOLVED BY SIMPLE CALCULATION METHOD OF SIMILARITY EQUATIONS
NASA-TM-X-54519 N64-17605 09-11

NEUTRON BEAM ENERGY DETERMINED BY DIFFUSION THROUGH LIQUID NITROGEN AND OXYGEN
FTD-MT-63-82/1&2&3&4 N64-18677 11-23

STRUCTURAL VIBRATION DUE TO SOUND AND ENERGY TRANSFER
NASA-TN-D-2266 N64-18959 11-33

EVAPORATION AND SENSIBLE HEAT FLUX OVER ARCTIC OCEAN - ENERGY TRANSFER FROM SURFACE TO ATMOSPHERE
AFCRL-64-272 N64-20164 13-21

ENERGY TRANSFORMATION IN ATMOSPHERE N64-24461 17-21

TRANSFORMATION OF POTENTIAL TO KINETIC ENERGY WITHIN STORM OR CYCLONE N64-24462 17-21

RADIANT ENERGY TRANSFER IN SCATTERING AND ABSORBING MEDIUM
AFCRL-64-366 N64-25474 17-12

INFLUENCE OF RADIANT ENERGY TRANSFER ON ONE DIMENSIONAL SHOCK WAVE PROPAGATION N64-26336 18-13

ENERGY TRANSFER ABSORPTION BY URANYL ION TO NEODYMIUM ION CAUSING NEODYMIUM-3 ION LUMINESCENCE IN BARIUM CROWN GLASS HOST MATRIX
NRL-1525 N64-27523 19-25

FLUORESCENT ION INTERACTION - ENERGY TRANSFER BETWEEN RARE EARTH IONS IN TUNGSTATES, QUENCHING INTERACTIONS, AND FLUORESCENCE OF MANGANESE DIFLUORIDE
SRRC-RR-64-39 N64-27989 20-25

ENERGY TRANSFER BETWEEN RARE EARTH IONS IN TERBIUM-EUROPIUM TUNGSTATES N64-27991 20-25

ENERGY TRANSFER BETWEEN SAMARIUM, EUROPIUM, TERBIUM, AND DYSPROSIUM IONS IN SODIUM RARE EARTH TUNGSTATES N64-27992 20-25

REACTION MECHANISMS IN CHEMILUMINESCENCE, STRUCTURAL CRITERIA FOR CHEMILUMINESCENT COMPOUNDS, AND SPECTROSCOPY AND ENERGY TRANSFER STUDIES
TR-4 N64-28818 20-07

ENERGY TRANSFER IN SILICATE GLASS COACTIVATED WITH CERIUM AND NEODYMIUM
NRL-1546 N64-30676 22-25

PHOTOGRAPHIC SPECTROMETRY AND RADIOMETRY FOR MEASUREMENT OF REENTRY OBSERVABLES - RADIANT ENERGY TRANSFER EQUATIONS
R64SD1023 N64-30866 22-15

MONTE CARLO SOLUTION OF RADIANT ENERGY TRANSFER AND TEMPERATURE IN NONGREY NONISOTHERMAL GAS BETWEEN PARALLEL BLACK WALLS
NASA-RP-317 N64-31208 22-13

RADIATIVE ENERGY TRANSFER IN CLOUDS N64-31530 23-23

ENERGY AND MOMENTUM EXCHANGE BETWEEN COMPONENTS OF NON-EQUIPARTITION GAS MIXTURE
ARAP-45 N64-32388 23-11

ENERGY TRANSFER DURING HIGH ENERGY NUCLEAR RADIATION PULSES
PR-3 N64-32862 24-23

ENERGY TRANSFER BETWEEN MOLECULES AND EXCITED ATOMS - QUENCHING OF EXCITED ARGON ATOMS FORMED BY BETA RADIATION FROM TRITIUM SOURCE AND LOW ENERGY ELECTRON IMPACT N64-33279 24-11

TWO-STREAM APPROXIMATION FOR RADIATIVE TRANSFER OF ENERGY THROUGH SPHERICALLY SYMMETRIC MEDIA
DASA-1486 N64-33846 24-23

ENGINE
SA AIR BREATHING ENGINE
SA BY-PASS ENGINE
SA CESIUM ENGINE
SA DUCTED FAN ENGINE
SA ELECTROTHERMAL ENGINE
SA EXTERNAL COMBUSTION ENGINE
SA INTERNAL COMBUSTION ENGINE
SA J-47 ENGINE
SA JET ENGINE
SA LOX-HYDROGEN ENGINE
SA NUCLEAR ENGINE FOR ROCKET VEHICLE /NERVA/
SA PLASMA ENGINE
SA PROPULSION
SA RECIPROCATING ENGINE
SA RESISTOJET ENGINE
SA SUSTAINER ENGINE
SA TURBOJET ENGINE
SA TURBOPROP ENGINE
LIFE SUPPORT SYSTEMS, IL-62 TURBOJET AIRCRAFT, MARS-I SPACECRAFT, AND GYRATING ENGINES
JPRS-18565 N64-10773 02-01

SUPERCRITICAL WORKING FLUID ENGINE FOR NUCLEAR POWERED ELECTRIC GENERATING SYSTEM
NYO-10398 N64-11629 03-06

CORROSION INHIBITORS FOR USE IN AUTOMOTIVE COOLANTS - ANTIFREEZES
CCL-155 N64-18186 10-19

IMPROVED CORROSION INHIBITOR FOR WATER-ETHYLENE GLYCOL-TYPE ENGINE COOLANTS
CCL-156 N64-18193 10-19

SYSTEM COMPONENTS FOR HIGH CHAMBER PRESSURE ENGINES
NASA-CR-56308 N64-22463 15-17

PERFORMANCE CHARACTERISTICS OF STRATIFIED CHARGE TWO STROKE SPARK IGNITION ENGINE
TR-S-1 N64-26660 18-27

MULTIPURPOSE ENGINE AND FUEL SYSTEM FOR MANNED LUNAR BASES - ENERGY CONVERSION SYSTEMS
WANL-PR/S/002-8 N64-31150 22-10

ENERGY COLLECTION & CONVERSION SYSTEMS FOR SOLAR MECHANICAL ENGINE
CORD-64-5039 N64-32358 23-06

ENGINE STARTER
STARTING TECHNIQUES FOR INTERNAL COMBUSTION ENGINES ON TRANSPORTATION AND CONSTRUCTION EQUIPMENT IN POLAR REGIONS
Y-F015-11-01-291 N64-27072 19-06

ENGINEERING /GEN/
SA HUMAN ENGINEERING
ENGINEERING PROBLEMS OF MANNED INTERPLANETARY EXPLORATION N64-10040 01-01

REACTOR UTILIZATION AND ABSTRACTS OF CHEMISTRY, ENGINEERING, METALLURGY, AND PHYSICS RESEARCH
IS-700 N64-10257 01-01

THEORETICAL TRAINING METHODS FOR RADIO ENGINEERS
JPRS-19999 N64-10592 01-14

ACHIEVEMENTS OF PHYSICAL SCIENCES AND ENGINEERING
JPRS-19020 N64-11062 02-18

SPACE SCIENCE & ENGINEERING AND THE SPACE PROGRAM N64-11506 03-01

LUNAR ENVIRONMENTAL CONDITIONS AND THEIR INFLUENCE UPON ENGINEERING DESIGN OF LUNAR VEHICLES
AEDC-TDR-63-169 N64-12678 04-29

ELECTRONICS - RADIO ENGINEERING & EQUIPMENT
JPRS-22132 N64-12726 04-01

NUCLEAR ENGINEERING - REACTOR PHYSICS, CHEMISTRY, METALLURGY, & ENGINEERING RESEARCH
BNL-799/S-64/ N64-13201 04-23

NUCLEAR RESEARCH PROGRAMS IN PHYSICAL & BIOLOGICAL SCIENCES, AND ENGINEERING - BIBLIOGRAPHY
BNL-806/AS-17/ N64-13289 04-01

STRUCTURAL ENGINEERING PROPERTIES OF TANTALUM AND TANTALUM ALLOY
DMIC-189 N64-13832 05-11

RELATION OF CYBERNETICS TO BIOLOGY, MEDICINE, ECONOMICS, AND ENGINEERING
JPRS-22931 N64-14142 05-16

EVALUATION OF MAGNETIC EFFECTS AND APPLICATION TO CHEMICAL ENGINEERING PROBLEMS
MATT-235 N64-14145 05-23

METALLURGICAL ANALYSIS AND STRUCTURAL REPAIR OF 120-INCH DIAMETER PRESSURE VESSEL
LPC-609-P-8 N64-14784 06-11

ENGINEERING METHODS FOR PRODUCTION IMPROVEMENT AND INCREASED RELIABILITY OF 2N1358A TRANSISTOR
AD-423651 N64-15297 07-17

ENGINEERING DEVELOPMENT OF DEEP SPACE INSTRUMENTATION FACILITY
NASA-CR-55419 N64-15553 07-01

STRUCTURAL SYNTHESIS CAPABILITY FOR INTEGRALLY STIFFENED WAFFLE PLATES N64-16007 07-14

MINERALOGICAL AND METALLURGICAL ENGINEERING
MITS-51 N64-16019 07-17

MITROVIC METHOD - TECHNIQUE FOR EVALUATING ROOTS OF POLYNOMIAL IN GRAPHICAL REPRESENTATION USEFUL FOR ENGINEERING APPLICATIONS
ITS RES. PAPER NO. 39 N64-16597 08-20

ENGINEERING PSYCHOLOGY
JPRS-23448 N64-16667 08-14

ENGINEERING AND TECHNOLOGY OF CHEMICAL-TO-ELECTRICAL ENERGY CONVERSION DEVICES AND ACCESSORY EQUIPMENT
AD-431610 N64-16953 09-06

METALLURGICAL STUDY OF METALS AND ALLOYS FOR AVIATION ENGINEERING
FTD-TT-62-1678/1&2 N64-16959 09-18

SELECTED ARTICLES FROM JOURNAL OF ENGINEERING PHYSICS
FTD-TT-63-85/1&2 N64-17176 09-01

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SSD-TDR-64-3 N64-17334 09-01

CHINESE REPORTS ON LASERS, RUBY ABSORPTION LINES, BORON PHOSPHIDE DECOMPOSITION, CHARGED PARTICLE MOVEMENT, AND MATHEMATICAL MODELS IN CHEMISTRY
JPRS-23767 N64-17342 09-01

MATHEMATICAL MODEL OF MATERIAL TRANSPORT IN CHEMICAL EQUIPMENT N64-17347 09-07

SYNCHRONOUS METEOROLOGICAL SATELLITE STUDY - OBJECTIVES, CONCLUSIONS, AND SUMMARIES OF SYSTEM & SUBSYSTEM STUDIES
NASA-CR-55926 N64-17695 09-30

PROPULSION, ENGINEERING, FLIGHT COMPUTING, SYSTEM ANALYSIS, AND GUIDANCE AND CONTROL OF SPACECRAFT MECHANICS IN SPACE RESEARCH
NASA-CR-53456 N64-18102 10-01

PRODUCTION ENGINEERING TO MANUFACTURE QUARTZ CRYSTALS FOR CRYSTAL AND ELECTRODE PLATING AND POLISHING
AD-432930 N64-18357 10-09

PROBLEMS OF ENGINEERING SEISMOLOGY
JPRS-24051 N64-18963 11-12

SPACE SCIENCES PROGRAM - PHYSICAL SCIENCES, BIOLOGICAL SCIENCES, ENGINEERING, AND BUSINESS ADMINISTRATION N64-19005 11-01

SPACE SCIENCES PROGRAM - PHYSICAL SCIENCES, BIOLOGY, ENGINEERING, & BUSINESS ADMINISTRATION N64-19096 11-01

DIGITAL COMPUTER APPLICATIONS IN STRUCTURAL ENGINEERING - BIBLIOGRAPHY N64-20613 13-20

SPACE PROGRAM SUMMARY - SYSTEMS, GUIDANCE AND CONTROL, ENGINEERING, PROPULSION, SPACE SCIENCES, AND TELECOMMUNICATIONS RESEARCH
NASA-CR-56175 N64-20816 14-01

BIBLIOGRAPHY ON SYSTEMS ENGINEERING
SB-63-12 N64-20892 14-01

PRODUCTION ENGINEERING MEASURE FOR VOLTAGE-TUNABLE MAGNETRONS
AD-432271 N64-21403 14-17

NONLINEAR STRUCTURAL VIBRATION OF BEAMS, ROTOR BLADES, AND COMPOSITE SYSTEMS
FTD-TT-62-1197/1&2 N64-22039 15-34

AERONAUTICAL ENGINEERING AND HYDROFOIL DEVELOPMENT
AGARD-473 N64-22059 15-34

THEORETICAL AND EXPERIMENTAL STUDIES ON REACTOR DYNAMICS AND CONTROL - NUCLEAR ENGINEERING
TID-7662 N64-22236 15-23

ARTICLES ON HEAT POWER ENGINEERING
FTD-TT-62-1738/1&2&4 N64-23487 16-01

AERONAUTICAL ENGINEERING
FTD-TT-63-813/1&2 N64-23691 16-34

ENGINEERING PSYCHOLOGY OF SPACE FLIGHT N64-23740 16-16

PRODUCTION ENGINEERING MEASURE FOR NIOBIUM CAPACITORS
AD-436536 N64-24059 16-09

SYSTEMS ENGINEERING AND AEROSPACE TECHNOLOGY N64-24851 17-01

SYSTEMS ENGINEERING AND ITS ROLE IN ELECTRONIC RESEARCH N64-24852 17-01

COMMUNICATIONS SYSTEMS ENGINEERING IN BUSINESS MANAGEMENT N64-24853 17-08

HIGH TEMPERATURE LIQUID METAL TECHNOLOGY FOR REACTOR ENGINEERING
BNL-866/PR-8/ N64-24959 17-27

ARC PLASMA SPRAYED TUNGSTEN AS ENGINEERING MATERIAL N64-25411 17-18

CHEMICAL ENGINEERING, NUCLEAR FUELS, NEUTRON CROSS SECTIONS, THERMOELECTRICITY, AND HIGH TEMPERATURE MATERIALS
ANL-6875 N64-25521 17-01

CHEMISTRY, BIOCHEMISTRY, PHYSICS, AND ENGINEERING IN COMMUNIST CHINA
JPRS-24862 N64-25786 17-07

PRODUCTION ENGINEERING MEASURE FOR K-BAND INVERTED COAXIAL MAGNETRON
SFD-29-QPR-3 N64-25883 18-09

ROLE OF CRYOGENICS IN MECHANICAL ENGINEERING - DESIGN AND TECHNOLOGY OF REFRIGERATION SYSTEMS N64-26014 18-13

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN AND ENGINEERING - BIOINSTRUMENTATION
NASA-CR-76 N64-26609 18-16

SCIENTIFIC AND ENGINEERING PROPERTIES OF TUNGSTEN, TANTALUM, NIOBIUM, AND MOLYBDENUM - REFRACTORY ELEMENTS N64-27582 19-18

THERMOCHEMISTRY OF REFRACTORY ELEMENTS - CHEMICAL REACTIONS APPLIED TO ENGINEERING STRUCTURES N64-27584 19-18

FLUID DYNAMICS AND MECHANICAL ENGINEERING OF LIQUID POTASSIUM TWO-STAGE TURBINE
NASA-CR-54115 N64-28056 20-06

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AR-4 N64-28765 20-25

AIRFRAME STRUCTURAL TESTING N64-29274 21-33

PRODUCTION ENGINEERING MEASURE FOR IMPROVED RELIABILITY OF SOLID ELECTROLYTE TANTALUM CAPACITORS
QR-2 N64-29345 21-17

RADIO EQUIPMENT ENGINEERING
JPRS-25138 N64-29454 21-09

APPLICATION OF SIMILARITY HYPOTHESIS TO HEAT ENGINEERING
RSIC-234 N64-29925 21-13

SETTLED BED REACTOR, REACTOR PHYSICS, METALLURGY, AND ENGINEERING
BNL-841/S-66/ N64-29944 21-23

RADIO PHYSICS, PLASMA DYNAMICS, AND COMMUNICATION SCIENCES AND ENGINEERING
AD-603870 N64-29998 21-23

MECHANICAL, CONSTRUCTION, AND CONTROL ENGINEERING
ESD-TDR-64-337 N64-30029 21-10

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JPRS-26417 N64-30416 22-33

MODULES OF COHERENT BINARY SYSTEMS
D1-82-0344 N64-30649 22-20

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BNL-864/T-347/ N64-30750 22-07

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JPRS-26461 N64-30920 22-23

PRODUCTION ENGINEERING MEASURE FOR BERYLLIUM OXIDE POWDER
QPR-3 N64-30961 22-17

COMPACT HIGH-VOLTAGE SILICON RECTIFIER STACKS - PRODUCTION ENGINEERING
QPR-8 N64-31182 22-09

ENGINEERING AND CONTINUUM MECHANICS OF HIGH STRENGTH METALLURGIC MATERIALS
TR-7 N64-31195 22-18

NEUTRON GENERATOR APPLICATIONS - NUCLEAR PHYSICS AND CHEMISTRY, CHEMICAL ENGINEERING, BIOLOGY, AND RADIATION MEDICINE N64-31788 23-23

ENGINEERING EVALUATION TESTS OF GEMINI LAUNCH VEHICLE INTERIM PREVALVES
LV-330 N64-31839 23-17

RADIO FREQUENCY COMPONENTS, SPACE & EARTH SURFACE TECHNIQUES & EQUIPMENT, ANALYSIS, RADAR, AND ENGINEERING
ESD-TDR-64-336 N64-32094 23-08

FIRE ENGINEERING RESEARCH IN PHYSICAL CHEMISTRY OF FOAMS, QUENCHING ACTION OF CATIONS, AND SURFACE CHEMISTRY OF PERFLUOROCARBONS
WSS/CI PAPER-64-2 N64-32512 23-13

ENGINEERING TEST REACTOR
REACTOR TECHNOLOGY AND RESEARCH - MATERIALS TESTING AND ENGINEERING TEST REACTORS
IDO-16932 N64-16126 08-23

ENGRAVING
PHOTOENGRAVING TECHNIQUES USED IN SILICON INTEGRATED DEVICE TECHNOLOGY
ASD-TDR-63-316, VOL. III N64-29984 21-25

ENTHALPY
CF ENTROPY
CF HEAT
ENTHALPY OF MOLYBDENUM AT TEMPERATURES OF 700- TO 2337-DEG C N64-11017 02-18

ENTHALPY & HEAT CAPACITY OF URANIUM CARBIDE TO 1200-DEG CENTIGRADE
PWAC-426 N64-12720 04-13

FLUID FLOW IN CURVED DUCTS - CROSS-SECTIONAL SHAPE TO REDUCE ENVIRONMENTAL EFFECTS TO HIGH ENTHALPY FLUIDS
R-77 N64-13021 04-11

ENTHALPY FLUCTUATIONS IN PLASMA JETS - SQUID PROJECT N64-13492 04-24

CONSTANT ENTHALPY MAGNETOHYDRODYNAMIC ACCELERATOR - CLOSED FORM SOLUTION OF ONE-DIMENSIONAL INVISCID EQUATIONS OF MOTION
SSD-TDR-63-270 N64-14173 06-24

HEAT TRANSFER MEASUREMENTS AT HIGH STAGNATION ENTHALPY AND HIGH REYNOLDS NUMBER N64-15640 07-13

FREE PISTON COMPRESSION FOR DRIVING HIGH ENTHALPY SHOCK TUBES - MINIMIZATION OF HEAT LOSS
NASA-CR-53059 N64-15790 07-11

FUNCTIONS FOR CALCULATION OF ENTROPY, ENTHALPY, AND INTERNAL ENERGY OF REAL CRYOGENIC FLUIDS
NASA-CR-55325 N64-15882 07-13

TOTAL ENTHALPY OF ONE-DIMENSIONAL NOZZLE FLOW USING REAL GASES
NASA-TN-D-2233 N64-16119 08-13

HIGH TEMPERATURE CALORIMETRY - ENTHALPY OF SODIUM CHLORIDE AND ALUMINUM OXIDE N64-16681 08-19

INCREASING ENTHALPY AND POWER OBTAINABLE FROM ARC AIR HEATERS AT VARIED PRESSURES
RTD-TDR-63-4055 N64-18011 10-13

ENTHALPY AND HEAT CAPACITY DATA ON CRYSTALLINE AND LIQUID BERYLLIUM FLUORIDE N64-18812 11-13

THERMODYNAMIC NONEQUILIBRIUM IN HIGH ENTHALPY NOZZLE FLOW N64-20616 13-02

STAGNATION POINT HEAT TRANSFER IN HIGH ENTHALPY GAS FLOWS
FDL-TDR-64-41, PT. 1 N64-22571 15-13

STAGNATION POINT EQUILIBRIUM RADIATIVE HEAT TRANSFER IN HIGH ENTHALPY GAS FLOWS
FDL-TDR-64-41 PT. II N64-22691 15-13

FUNCTIONS FOR CALCULATION OF ENTROPY, ENTHALPY, & INTERNAL ENERGY OF REAL FLUIDS USING STATE EQUATIONS AND SPECIFIC HEATS N64-24147 16-11

SUPERSONIC COMPRESSOR FOR HIGH ENTHALPY TEST FACILITY
ARL-64-64 N64-24933 17-10

SHOCK TUNNEL STUDIES OF HIGH-ENTHALPY IONIZED AIRFLOWS N64-26137 18-24

NONEQUILIBRIUM SCALING OF HIGH ENTHALPY GAS FLOWS
TR-64-02C N64-27569 19-11

ENTROPY
CF ENTHALPY
LOGARITHMIC AMPLITUDE CHARACTERISTICS FOR CALCULATING ENTROPY OF RANDOM PROCESSES RELATED TO AUTOMATIC CONTROL SYSTEMS
JPRS-19242 N64-10583 01-09

HEAT CONTENT-ENTROPY DIAGRAMS FOR COMBUSTION PRODUCTS OF HYDROCARBON & NITROGEN GAS MIXTURE N64-11973 03-26

LOW TEMPERATURE HEAT CAPACITY & ENTROPY OF AKERMANITE, CORDIERITE, GEHLENITE, & MERWINITE
BM-RI-6343 N64-12121 03-13

STATE EQUATIONS FOR DIFFERENCE IN SPECIFIC HEATS & CHANGE IN ENTROPY OF GASES
RS-TR-63-5 N64-12243 03-23

LOW TEMPERATURE HEAT CAPACITIES AND ENTROPIES AT 298.15 DEG K. OF LEAD MOLYBDATE AND TUNGSTATE
BM-RI-6357 N64-14918 06-19

HEAT CONTENT AND ENTROPY OF ALUMINUM SILICATE CRYSTALS - ANDALUSITES, KYANITE, AND SILLIMANITE
BM-RI-6370 N64-15650 07-19

FUNCTIONS FOR CALCULATION OF ENTROPY, ENTHALPY, AND INTERNAL ENERGY OF REAL CRYOGENIC FLUIDS
NASA-CR-55325 N64-15882 07-13

HEAT CONTENT & ENTROPY MEASUREMENTS OF MUSCOVITES AND DEHYDRATED MUSCOVITES
BM-RI-6371 N64-15990 07-19

HEAT TRANSFER - ENTROPY OF ALKALI METALS AND HEAT FLOW DEPENDENCE ON SURFACE FINISH
FTD-TT-63-452/1&2&4 N64-17189 09-13

ENTROPY AND HEAT CAPACITY OF ALKALI METALS IN FUSED STATE N64-17190 09-13

QUANTUM THEORY, ENTROPY, AND SPACE COMMUNICATIONS
N64-17199 09-08

ENERGY, ENTROPY, AND GAS EXPENDITURE IN NONUNIFORM SUPERSONIC GAS FLOW
FTD-MT-63-51/1&2 N64-18755 11-11

ENTROPY AND HEAT CAPACITY CALCULATIONS OF CHEMICAL COMPOUNDS AT LOW AND HIGH TEMPERATURES - THERMODYNAMIC PROPERTIES N64-18824 11-13

FUNCTIONS FOR CALCULATION OF ENTROPY, ENTHALPY, & INTERNAL ENERGY OF REAL FLUIDS USING STATE EQUATIONS AND SPECIFIC HEATS N64-24147 16-11

LOW TEMPERATURE HEAT CAPACITIES AND ENTROPIES OF SULFIDES OF ARSENIC, GERMANIUM, AND NICKEL
BM-RI-6511 N64-28675 20-18

THERMODYNAMIC DATA INTERPOLATIONS AT CONSTANT ENTROPY FOR IMPERFECT AIR - COMPUTING NORMAL SHOCK PROPERTIES
AEDC-TDR-64-183 N64-31371 23-13

INTERPOLATIONS OF IMPERFECT NITROGEN THERMODYNAMIC DATA AT CONSTANT ENTROPY
AEDC-TDR-64-212 N64-33114 24-13

COMPUTER PROGRAM FOR CALCULATION OF HEAT CONTENT, COMPRESSIBILITY FACTOR, ENTROPY, AND FUGACITY COEFFICIENT OF PURE SUBSTANCE OR MIXTURE FROM EQUATION OF STATE
UCRL-11645 N64-33238 24-20

ENVIRONMENT
SA EXTRATERRESTRIAL ENVIRONMENT
SA SPACE ENVIRONMENT
SA SPACECRAFT ENVIRONMENT
LUNAR ENVIRONMENTAL CONDITIONS AND THEIR INFLUENCE UPON ENGINEERING DESIGN OF LUNAR VEHICLES
AEDC-TDR-63-169 N64-12678 04-29

VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN FOLLOWING STRESS ADAPTATION - EOSINOPHILE COUNT IN BLOOD & ADRENO-CORTICAL HORMONE LEVEL IN PLASMA
N64-12753 04-16

CELL REACTIONS UNDER EXTREME ENVIRONMENTAL CONDITIONS
JPRS-22613 N64-13692 05-16

IMPLICATIONS OF WATER AS LUNAR RESOURCE
N64-13708 05-29

LOCATING LUNAR WATER DEPOSITS N64-13709 05-29

CANAL SICKNESS TEST IN SLOW ROTATING ENVIRONMENT FOR PREDICTION OF SUSCEPTIBILITY TO SEASICKNESS AND AIRSICKNESS
NASA-CR-55620 N64-15348 07-14

HUMAN PERFORMANCE IN ROTATING ENVIRONMENT AT THREE REVOLUTIONS PER MINUTE
NASA-CR-55622 N64-15349 07-14

PILOT REACTION TO HIGH SPEED ROTATION
NASA-RP-133 N64-15841 07-14

GRAVITY SIMULATION TECHNIQUE FOR STUDIES OF SELF-LOCOMOTION IN LUNAR ENVIRONMENT
NASA-TN-D-2176 N64-16916 09-14

NEW CONTROL AND DATA ACQUISITION INSTRUMENTATION FOR VESTIBULAR RESEARCH IN CENTRIFUGE-SLOW ROTATION ROOM FACILITY
NASA-CR-53341 N64-17788 09-10

HUMAN REACTIONS TO SLOW ROTATIONAL MOTION
NASA-CR-53988 N64-20731 13-16

STUDY OF SNAP POWER SYSTEMS IN LUNAR ENVIRONMENT
AI-8576 N64-22002 15-27

HUMAN PERFORMANCE - NYSTAGMUS FLUCTUATION DURING ADAPTATION TO LIVING IN ROTATING ROOM
N64-22433 15-14

HUMAN TOLERANCE TO ENVIRONMENT IN ROTATING SPACE STATION - SPACE FLIGHT SIMULATION
ADN-04-09-63.1 N64-23474 16-30

ONE-MAN PROPULSION DEVICE FOR LUNAR AND FREE SPACE ENVIRONMENTS
NASA-CR-58172 N64-26579 18-27

LUNAR TELEVISION CAMERA MANIPULATOR - ENVIRONMENT, DESIGN, SPECIFICATIONS, TESTS, AND THERMAL ANALYSIS
NASA-CR-56790 N64-27378 19-15

ENVIRONMENT, DESIGN, FABRICATION, TESTS, AND INSPECTION OF SUNFLOWER SOLAR COLLECTOR
NASA-CR-56558 N64-27396 19-06

PRELIMINARY DESIGN OF ONE MAN PROPULSION DEVICE FOR LUNAR AND FREE SPACE ENVIRONMENTS
NASA-CR-58169 N64-27897 20-27

EFFECTS OF ENVIRONMENTAL CONDITIONS ON PERFORMANCE OF CHARRING ABLATING MATERIALS
NASA-TM-X-51959 N64-29707 21-13

ENVIRONMENT SIMULATION
CF SPACE SIMULATION
SPECTRAL NORMAL EMITTANCE OF MATERIALS UNDER SIMULATED SPACE ENVIRONMENT N64-10959 02-13

HEMISPHERICAL EMITTANCE OF STRUCTURAL MATERIALS & COATINGS UNDER SIMULATED SPACECRAFT CONDITIONS OVER WIDE TEMPERATURE RANGE N64-10962 02-13

HUMAN REACTIONS IN SIMULATED SPACE ENVIRONMENT
JPRS-19953 N64-11131 02-14

SURVIVAL OF EARTH MICROORGANISMS IN SIMULATED MARS ENVIRONMENT
NASA-CR-52841 N64-11293 02-16

WEIGHT CHANGES OF SOLIDS IN HIGH VACUUM AND HIGH TEMPERATURE ENVIRONMENTAL SIMULATION
NASA-TM-X-51166 N64-11340 02-19

BEHAVIORAL TESTING DURING 7-DAY CONFINEMENT IN SIMULATED SPACE CAPSULE - PATTERN RECOGNITION TASK
NASA-TN-D-1974 N64-11549 03-14

ENVIRONMENT SIMULATION OF PAYLOADS FOR SOUNDING ROCKETS AND UNMANNED SPACECRAFT
NASA-TN-D-1916 N64-12713 04-30

ADVANCED SOLAR SIMULATOR - SPACE ENVIRONMENT REPRODUCTION
NASA-CR-55206 N64-13918 05-10

SPACE ENVIRONMENT AND SOLAR SIMULATOR - DESIGN SPECIFICATIONS AND CONSTRUCTION PROBLEMS
NASA-TN-D-1917 N64-16316 08-10

VERY HIGH FREQUENCY RADIOTELEMETRY IN SIMULATED ANIMAL INTERIOR ENVIRONMENT, AND TRANSPARENCY OF HUMAN BODY TO RADIO WAVES
SAM-TDR-63-80 N64-16642 08-16

BACTERIAL SURVIVAL IN SIMULATED EXTRATERRESTRIAL ENVIRONMENT
NASA-CR-53106 N64-16745 08-16

SURVIVAL OF TERRESTRIAL MICROORGANISM UNDER SIMULATED MARTIAN CONDITIONS N64-19583 12-99

SMALL VERSATILE ENVIRONMENT SIMULATOR FOR AEROSPACE MEDICINE STUDIES
AMRL-TDR-64-6 N64-19816 12-10

SHOCK AND VIBRATION ENVIRONMENTAL SIMULATION AND TESTING
AD-435514 N64-20235 13-01

SIMULATING FLIGHT ENVIRONMENT SHOCK ON ELECTRODYNAMIC SHAKER N64-20247 13-10

AEROSPACE ENVIRONMENT SIMULATION SYSTEM
ESD-TDR-63-659, VOL. 1 N64-21342 14-20

BACTERIAL SURVIVAL IN SIMULATED MARTIAN ENVIRONMENT
NASA-CR-50516 N64-22759 16-16

BACTERIA UNDER SIMULATED MARTIAN ENVIRONMENT
NASA-TM-X-50873 N64-22777 16-16

TERRESTRIAL MICROORGANISMS IN SIMULATED PLANETARY ENVIRONMENT - MARS AND MOON
NASA-CR-56529 N64-22790 16-16

INTERNAL ENVIRONMENT SIMULATOR FOR MAN-MACHINE SYSTEM
NAVTRADEVCEN-786-2 N64-22961 16-10

CLOSED CYCLE ENVIRONMENT SIMULATION TRAINING EQUIPMENT
NAVTRADEVCEN-1097-1 N64-25378 17-06

COMPUTER DRIVEN SIMULATION ENVIRONMENT - DESCRIPTION, PROGRAMMING, CHECKOUT, AND OPERATION
N64-25552 17-10

DESIGN AND PERFORMANCE OF LINEAR CROSSED-FIELD AIR PLASMA ACCELERATOR FOR REENTRY SIMULATION FACILITY
NASA-CR-58543 N64-28517 20-24

TRAINING OF SOVIET ASTRONAUTS - SIMULATED FLIGHT ENVIRONMENT
JPRS-26762 N64-31440 23-14

AUTOMATIC FLIGHT CONTROL SYSTEM TO SIMULATE ZERO, MOON, OR MARS GRAVITY ENVIRONMENTS IN KC-135 AIRCRAFT
GGC/EE/64-13 N64-33968 24-06

ENVIRONMENTAL SCIENCE
AEROSPACE RESEARCH - NUCLEAR PHYSICS, AND PHYSICAL, MATHEMATICAL, ENGINEERING, ENVIRONMENTAL, AND LIFE SCIENCES
OAR-64-6 N64-32592 23-10

ENVIRONMENTAL TEMPERATURE
THERMAL SCALE MODELING TECHNIQUES FOR SPACECRAFT ENVIRONMENTAL SIMULATION TESTING
NASA-CR-52598 N64-11078 02-02

THERMAL CONDITIONS FOR INDUCING WINTER PRECIPITATIONS BY ANTIHAIL ROCKET
N64-11837 03-21

MICROWAVE RADIOMETER DETERMINATION OF THERMAL ENVIRONMENT OF TERRESTRIAL PLANETS
NASA-TM-X-53016 N64-18165 10-29

THERMAL ENVIRONMENT IN SHELTERS
TR-8 N64-18696 11-10

OVENS FOR MAINTAINING QUARTZ CRYSTAL TEMPERATURE DURING ENVIRONMENTAL TEMPERATURE EXTREMES
QR-3 N64-20131 13-13

PROTECTIVE COATINGS FOR REFRACTORY ALLOYS EXPOSED TO THERMAL ENVIRONMENTS
ML-TDR-64-70 N64-30111 21-18

PSYCHOLOGICAL RESPONSES AND HUMAN ADAPTIBILITY TO HEAT AND COLD - INSTRUMENTATION
AD-603074 N64-30859 22-16

THERMAL ENVIRONMENT AND PROTECTION OF STRUCTURES BY ABLATIVE TECHNIQUES - ANNOTATED BIBLIOGRAPHY
PIBAL-686 N64-33318 24-13

ENVIRONMENTAL TESTING
SA MATERIAL TESTING
ENVIRONMENTAL TEST PROGRAM FOR FIRST AND SECOND STAGE POLARIS A1 MOTORS
SRP-314 N64-10610 01-30

THERMAL SCALE MODELING TECHNIQUES FOR SPACECRAFT ENVIRONMENTAL SIMULATION TESTING
NASA-CR-52598 N64-11078 02-02

FLOW CONTROLLER FOR LIQUID SODIUM COOLANT IN NUCLEAR POWERPLANTS - ENVIRONMENTAL AND PERFORMANCE TESTING
NAA-SR-7534 N64-11999 03-06

EXTREMELY HOT ENVIRONMENT EXPOSURE EFFECT ON THE TYMPANIC, ESOPHAGEAL, AND RECTAL TEMPERATURE OF MAN
AMRL-TDR-63-85 N64-12215 03-16

SIMULATED AND HUMAN OCCUPANCY TESTS OF 100 MAN SHELTER - ATMOSPHERE AND TEMPERATURE STUDIES
USNRDL-TR-618 N64-12254 03-16

JOINING & ENVIRONMENTAL TESTING OF RADIATOR TUBE-FIN SAMPLES OF VARIOUS METALS
ERR-FW-115 N64-12664 04-18

ACCELERATION TOLERANCES ON CENTRIFUGE - ABILITY OF MAN TO PERFORM TOTAL TASK IN TOTAL ENVIRONMENT
N64-13458 05-16

EFFECT OF PHYSICAL STRAIN, HIGH TEMPERATURE, & HIGH OXYGEN CONTENT IN INSPIRED AIR ON EXCITABILITY OF VISUAL MECHANISM IN MAN
N64-13583 05-16

LOW NOISE TRAVELING-WAVE TUBES - ENVIRONMENTAL TESTING
AD-427547 N64-13962 05-09

SPACE ENVIRONMENT EFFECT ON SPACECRAFT DESIGN
N64-14572 06-29

VARIOUS TYPES OF ANTENNAS ON DIFFERENT GEOMETRIC STRUCTURES AND RADIATION PATTERNS IN DIFFERENT ENVIRONMENTS
TECH. REPT. 81 N64-14771 06-09

EFFECT OF COMBINED ENVIRONMENTAL TESTING OF ELECTRONIC EQUIPMENT
ASTEV-3-2 N64-14813 06-09

ENVIRONMENTAL TEST PROGRAM FOR ARIEL I SATELLITE
NASA-TN-D-2099 N64-15220 07-32

PHYLOGENETIC STUDY OF ANAEROBIC SEED GERMINATION, ENVIRONMENT EFFECTS ON GERMINATION, AND SEEDLING GROWTH
NASA-CR-52635 N64-15895 07-16

ENVIRONMENTAL TESTING OF RAIN REPELLANT CHARACTERISTICS OF WINDSHIELD COATING
FGT-3062, ADD. 1 N64-16633 08-19

OPTIMUM ENVIRONMENTAL CONDITIONS FOR GROWTH OF STRAINED MARINE ALGAL FLAGELLATES
SAM-TDR-63-91 N64-16643 08-16

WEAPON SYSTEM ENVIRONMENTAL PROGRAM
FDL-TDR-64-20 N64-18183 10-01

EFFECT OF OPERATING ENVIRONMENT ON RELIABLE RELAY LIFETIME N64-19518 12-09

SIMULATED SPACE ENVIRONMENTAL TESTING OF TANKAGE SYSTEMS FOR LONG TERM PROPELLANT STORAGE IN SPACE
RPL-TDR-64-56 N64-19669 12-10

INSTRUMENTATION, EQUIPMENT, AND METHODS IN ENVIRONMENTAL TESTS - WEAPON SYSTEM MANAGEMENT
SC-4452B/M/ N64-19713 12-10

COMBINING SINE & RANDOM VIBRATION IN ENVIRONMENTAL TEST LABORATORY N64-20249 13-34

COMBINING INDUCTION HEATERS WITH EXISTING ENVIRONMENTAL TEST FACILITIES FOR CONDUCTING TESTS AT REENTRY TEMPERATURES N64-20255 13-10

DERIVING LABORATORY VIBRATION TESTS FROM MEASURED ENVIRONMENTAL CONDITIONS OCCURRING DURING TRANSPORT OF MISSILE SYSTEM N64-20258 13-33

FURNACE OXIDATION, AND ENVIRONMENTAL TESTING OF COATED NIOBIUM ALLOY FOILS
RDR-1325-7 N64-20856 14-18

GASEOUS ENVIRONMENTAL TESTING FOR MANNED SPACECRAFT N64-22073 15-16

ENVIRONMENTAL TESTS ON CRASH POSITION INDICATOR
ATL-TDR-64-20 N64-22272 15-15

AUTOMATIC DATA HANDLING SYSTEM FOR SIMULATED SPACE ENVIRONMENTAL TEST
NASA-TN-D-2322 N64-23901 16-30

SEVERE TEMPERATURE AND NUCLEAR ENVIRONMENTAL

EFFECTS ON SILICON INTEGRATED CIRCUITS FOR SWITCHING AND MULTIPLEXING EQUIPMENT
USAELRDL-TR-2447 N64-25298 17-09

STANDARD ENVIRONMENTAL TESTING METHODS FOR WEAPON SYSTEMS
SC-4452C/M/ N64-26290 18-17

SYSTEM FOR NUCLEAR AUXILIARY POWER 10A /SNAP-10A/ ENVIRONMENTAL TESTING RESULTS
NAA-SR-8399 N64-26833 18-06

ENVIRONMENTAL TESTING OF VIBRATION DAMPING PROPERTIES OF PLASTICIZED, GRAPHITE FILLED VINYL CHLORIDE & ACETATE COPOLYMER COATED STAINLESS STEEL
REPT.-94-43 N64-27186 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - ELASTOMERS
RSIC-150, VOL. I, APPEND. A N64-27480 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - PLASTICS
RSIC-150, VOL. I, APPEND. B N64-27481 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - COATINGS
RSIC-150, VOL. I, APPEND. C N64-27482 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - STRUCTURAL ADHESIVES
RSIC-150, VOL. I, APPEND. D N64-27483 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - ELECTRICAL INSULATION
RSIC-150, VOL. I, APPEND. E N64-27484 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - LAMINATES
RSIC-150, VOL. I, APPEND. F N64-27485 19-19

SPACE ENVIRONMENTAL EFFECTS ON ELASTOMERIC AND PLASTIC MATERIALS AND COMPONENTS - POTTING COMPOUNDS
RSIC-150, VOL. I, APPEND. G N64-27486 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - SEALS, O-RINGS, AND GASKETS
RSIC-150, VOL. I, APPEND. H N64-27487 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - RADIATION AT CRYOGENIC TEMPERATURES
RSIC-150, VOL. I, APPEND. I N64-27488 19-19

ENVIRONMENTAL TESTING OF PREPRODUCTION UNITS OF LEAD SELENIDE INFRARED DETECTOR
QPR-6 N64-28548 20-15

EFFECT OF FLUID ENVIRONMENT ON TORSIONAL FATIGUE FAILURE
TR-64-GRX-10 N64-28813 20-18

TAIL SECTION DESIGN, DEVELOPMENT OF NEOPRENE AND NATURAL LATEX COMPOUNDS, AND ENVIRONMENTAL TESTING FOR DUAL PURPOSE FAST RISE BALLOONS
AD-602760 N64-29710 21-04

ENVIRONMENTAL TESTING OF PISTON ACTUATOR, DIMPLE ACTUATOR, AND MATCH TYPE SQUIBS
RT-TR-64-7 N64-29830 21-06

SIMULATED ENVIRONMENTAL TESTING OF BINARY DELAY LOCK TRACKING DISCRIMINATOR
REPT.-6-74-64-18 N64-29880 21-08

DYNA-SOAR MODEL X-20A - LEADING EDGE CONCEPTS SUBJECTED TO ENVIRONMENTAL TESTING
D2-80085, VOL. 1 N64-31178 22-10

DIGITAL SELECTOR SWITCH MODULES FOR VIBRATION ENVIRONMENTAL TESTING
AD-447841 N64-32169 23-09

ENZYME
CF PROTEIN
THIOL-ACTIVATED AMINOPEPTIDASE OF PITUITARY EXTRACT
NASA-RP-55 N64-10293 01-16

INTERACTION OF FREE RADICAL FROM INHIBITORS OF ENZYMES WITH PROTEIN SULFUR COMPOUNDS
N64-10854 02-16

BIOELECTROCHEMISTRY - ENZYME SYSTEMS, OXIDIZATION POTENTIAL, ELECTRODE, & CHRONOPOTENTIOMETRIC STUDY
NASA-CR-52607 N64-11103 02-16

CHEMICAL ANALYSIS AND COMPOSITION OF MITOCHROME AND CYTOCHROME OXIDASE FROM RAT LIVER MITOCHONDRIA
NADC-MA-6319 N64-12255 03-16

CELLULAR AUTOMATIC CONTROL OF ENZYMATIC TRANSFER OF NUCLEOSIDE SUBSTANCES N64-12510 04-16

BIOCHEMICAL PROBE INTO ENERGY SOURCE COMPOUNDS, ENZYME INHIBITORS, AND RADIOBIOLOGY
JPRS-19995 N64-12570 04-16

IMIPRAMINE INHIBITION OF MONOAMINE OXIDASE OF CAT BRAIN N64-12573 04-16

INTERMEDIARY METABOLISM - INFLUENCE OF CHRONIC HYPOXIA ON TRANSAMINASE ACTIVITY IN BLOOD
N64-12754 04-16

INHIBITING ACTION OF DEOXYRIBONUCLEASE ON ADENOVIRUSES
JPRS-22050 N64-12883 04-16

INHIBITING CAPACITY OF DEOXYRIBONUCLEASE ON ADENOVIRUSES IN TISSUE CULTURE N64-12884 04-16

THERAPEUTIC VALUE OF DEOXYRIBONUCLEASE IN TREATMENT OF PATIENTS WITH ADENOVIRUS CONJUNCTIVITIS N64-12885 04-16

INHIBITION BY X-RAYS & CHEMICAL AGENTS OF ENZYMES WHICH CATALYZE METABOLISM OF FOREIGN CHEMICALS IN MAMMALIAN TISSUE - TOXICOLOGY & IONIZING RADIATION
N64-13502 05-16

IONIZING RADIATION EFFECT ON THIOPHOSPHATE OXIDIZING ENZYME IN RAT LIVER - BIOCHEMISTRY
N64-13503 05-16

ORAL ADMINISTRATION OF SEROTONIN AND SULFUR DRUGS AND EFFECT ON RADIATION CHANGES OF SPLEEN, THYMUS GLAND, AND INTESTINE ENZYME ACTIVITIES
N64-13504 05-16

TRYPTOPHAN PYRROLASE ACTIVITY EFFECT IN BACTERIAL ENDOTOXIN POISONING IN MICE
AAL-TDR-63-13 N64-13662 05-16

HISTOCHEMICAL DETERMINATION OF OXIDATIVE AND HYDROLYTIC ENZYMES ON RAT BRAIN TISSUE AND AMINO ACID CONSUMPTION IN MONKEYS AFTER HYPOXEMIA
N64-14606 06-16

ENZYME HISTOCHEMISTRY OF NERVOUS SYSTEM
N64-14608 06-16

PROPERTIES AND STRUCTURE OF PURIFIED MAMMALIAN ADENOSINE DEAMINASE ISOLATED FROM CALF INTESTINE AND CAT LUNG
AD-429070 N64-14832 06-16

ENZYMATIC REACTION BETWEEN IRON & PROTOPORPHYRIN UNDER OXYGEN DEFICIENCY CONDITIONS - HYPOXIA
N64-15038 07-16

ACTIVITY CHANGE OF GLUTAMIC-OXALACETIC ACID TRANSAMINASE BY ALBUMIN METABOLISM DUE TO OXYGEN DEFICIENCY - BIOCHEMISTRY N64-15039 07-16

ENZYME ACTIVATION DETERMINATION OF OXYGEN

DEFICIENCY EFFECT ON BIOSYNTHESIS OF HEME FORMATION N64-15043 07-16

DROPLET SEDIMENTATION IN CONTINUOUS FLOWING SYSTEM TO CONTROL ENZYME-SUBSTRATE REACTION BY DIFFUSION AND GRAVITY N64-15211 07-16

ELECTROCHEMICAL PRODUCTION ACTIVITY OF D-AMINO ACID, OXIDASE, UREASE, AND GLUCOSE OXIDASE ENZYME SYSTEMS
NASA-CR-55744 N64-15873 07-16

BIOLOGY - DISCUSSION ON CELL-CELL INTERACTIONS, MEMBRANE STRUCTURE, ENZYMATIC REACTIONS, AND PHYSICAL CHEMISTRY OF INTERFACES
NASA-CR-53290 N64-17601 09-16

TRYPTOPHAN SYNTHETASE MUTANTS OF YEAST - SUPER-SUPPRESSOR ACTION IN RELATION TO ALLELIC MAPPING & COMPLEMENTATION
UCRL-11191 N64-17707 09-16

PURIFICATION AND TERMINATION OF CONTINUOUS DEACTIVATION OF ENZYME CARBOXYDISMUTASE N64-19464 12-07

THEORY OF PARTICULATE ELECTRON CONDUCTION ENZYMES APPLIED TO CYTOCHROME OXIDASE - THEORY OF COUPLED ELECTRON AND/OR ION TRANSPORT APPLIED TO PYRUVATE CARBOXYLASE
NADC-ML-6405 N64-22538 15-07

BLOOD SERUM ENZYME ACTIVATION AND SPECTRUM ANALYSIS OF CATECHOLAMINES
JPRS-24838 N64-24561 17-16

ACTIVITY OF BLOOD SERUM ENZYME DUE TO HYPOXIA, ASPHYXIA, AND BURN SHOCK STIMULI N64-24562 17-16

HYDROLYSIS OF AMINO ACYL-BETA-NAPHTHYLAMIDES BY PLASMA AMINOPEPTIDASES
NASA-RP-236 N64-26710 18-16

INHIBITION OF THIOL-ACTIVATED AMINOPEPTIDASE ENZYME BY BACTERIA-PUROMYCIN
NASA-RP-252 N64-26711 18-16

EFFECTIVENESS OF USING ENZYMES AS INDICATORS FOR TOXIC SUBSTANCE DETECTION
JPRS-25986 N64-27668 19-16

ISOLATION, CRYSTALLIZATION, AND PHYSICOCHEMICAL PROPERTIES OF BEEF AND CHICKEN ENZYMES - LACTIC DEHYDROGENASES
PUBL.-281 N64-28295 20-16

EFFECT OF URANIUM ON ALKALINE PHOSPHATASE ENZYME OF SOME ORGANS OF RATS N64-31347 23-16

PREPARATION, SEDIMENTATION, ELECTROPHORETIC PROPERTIES, AMINO ACID COMPOSITION, IMMUNOLOGY, AND CRYSTALLIZATION OF TRIOSE PHOSPHATE DEHYDROGENASE N64-32048 23-16

PHOTOTROPIC PROPERTIES OF DYE-ENZYME SYSTEMS
STL-4133-6002-RU000 N64-32471 23-07

BACTERIAL CELL ENZYMES CONTRIBUTING TO VIRULENCE AND PATHOGENICITY OF MICROORGANISMS
JPRS-27146 N64-33345 24-16

EOTVOS EXPERIMENT
USE OF EOTVOS TORSION BALANCE FOR REDUCTION OF GEODETIC SURFACE DIFFERENCES
AFCRL-64-131 N64-20176 13-15

EPE-D
MANUAL ON LAUNCHING OF EPE-D SPACECRAFT
NASA-TM-X-55103 N64-33568 24-10

EPHEMERIS
COMPUTER PROGRAM FOR ORBIT DETERMINATION AND PREDICTION, AND EPHEMERIS CALCULATION N64-10890 02-26

MAPS FOR OBTAINING DEPARTURE AND ARRIVAL SPEEDS FOR TRIPS TO MARS AND VENUS - CONSTANTS & PLANETARY EPHEMERIDES
NASA-SP-35, PT. 1 N64-14175 06-29

PHYSICAL EPHEMERIS OF MARS AS FIRST STEP TOWARD ACCURATE MARTIAN MAP
NASA-CR-53117 N64-16758 08-05

MAGNETIC TAPE SYSTEM FOR EPHEMERIDES OF MOON AND PLANETS
NASA-CR-53218 N64-17223 09-05

RAPID COMPUTATION OF EARTH-SATELLITE EPHEMERIDES USING FOURIER SERIES
RAE-TN-SPACE-61 N64-22499 15-29

EPHEMERIS MAGNETIC TAPES INCLUDING LOCATIONS, SPEEDS, & NUTATIONS OF MOON & PLANETS
NASA-CR-56285 N64-23950 16-29

EPHEMERIDES OF MOON, PLANETS, AND THEIR SATELLITES FOR YEAR 1965 N64-26551 18-05

EPHEMERIS OF MINOR PLANETS N64-26554 18-05

EPHEMERIDES EVALUATION OF SAN MARCO SATELLITE FOR ORBITAL LAUNCHING FROM WALLOPS ISLAND N64-26835 18-32

COMPUTATION OF ORBITS AND EPHEMERIDES OF NEAR EARTH SATELLITES N64-29105 21-08

EPHEMERIS CONTAINING OBSERVATIONS OF SATELLITES & LAUNCH VEHICLES N64-30860 22-08

EPHEMERIS OF ECHO II SATELLITE OBSERVATIONS N64-30861 22-08

EPHEMERIS CONTAINING OBSERVATIONS OF VARIOUS ORBITING OBJECTS N64-30862 22-08

EPHEMERIS OF THEODOLITIC SATELLITE OBSERVATIONS N64-30869 22-08

EPHEMERIS CONTAINING OBSERVATIONS OF EXPLORER, MIDAS III & IV, TRANSIT IIA & OTHER SATELLITES N64-30870 22-08

EPHEMERIS CONTAINING OBSERVATIONS OF EXPLORER, MIDAS III & IV, TRANSIT IIA, & OTHER SATELLITES N64-30871 22-08

EPHEMERIS CONTAINING SATELLITE OBSERVATIONS OF MIDAS, TRANSIT, AND THOR AGENA B ORBITING VEHICLES N64-30872 22-08

EPHEMERIS OF ROCKET AND SATELLITE ORBIT POSITIONS N64-30873 22-08

SATELLITE OBSERVATION EPHEMERIS INDEX FOR PERIOD OF JAN. - JUNE 1964 N64-32344 23-32

EPHEMERIS OF EXPLORER AND VANGUARD SATELLITE OBSERVATIONS
NASA-CR-59174 N64-33116 24-08

ORBITAL ELEMENTS IN 1962 FOR VANGUARD, EXPLORER, TRANSIT, INJUN, MIDAS, AND TELSTAR SATELLITES AND FOR ECHO I CARRIER ROCKET - EPHEMERIDES
NASA-CR-58841 N64-33182 24-08

ORBITAL ELEMENTS AND EPHEMERIDES FOR ANNA, ECHO, EXPLORER, GEOPHYSICAL, INJUN, RELAY, TELSTAR, AND VANGUARD SATELLITES
NASA-CR-59294 N64-33334 24-29

EPHEMERIS OF KINETHEODOLITE OBSERVATIONS - THOR AGENA D, MIDAS VI, BLUE SCOUT, AND GEOPHYSICAL RESEARCH SATELLITE N64-33446 24-08

EPHEMERIS OF KINETHEODOLITE OBSERVATIONS OF SATELLITES - MIDAS VII, ATLAS AGENA B, AND ABLESTAR N64-33447 24-08

COMPUTER PROGRAM FOR SATELLITE ORBIT EPHEMERIDES
U-2731 N64-33720 24-20

EPILEPSY
S CONVULSION

EPITAXIAL DEPOSITION
SINGLE CRYSTAL GALLIUM PHOSPHIDE PREPARATION BY EPITAXIAL DEPOSITION ON SINGLE CRYSTAL GALLIUM ARSENIDE FOR SOLAR CELL USE
NASA-CR-52140 N64-10111 01-06

BIBLIOGRAPHY ON EPITAXIAL GROWTH OF SEMICONDUCTOR MATERIALS
LS-BIB-63-3 N64-10622 01-09

IMPROVEMENT OF MASS SPECTROMETER USED TO ANALYZE SILICON EPITAXIAL REACTOR GAS STREAM COMPONENTS
AFCRL-63-350 N64-12237 03-15

EPITAXY DEPOSITED STOICHIOMETRIC FILMS BY FLASH EVAPORATION
AFCRL-63-524 N64-13675 05-25

CODED BIBLIOGRAPHY OF EPITAXIAL FILM CHARACTERISTICS
BMPR-1 N64-13961 05-25

EPITAXIAL DEPOSITION OF THIN FILMS OF LEAD SULFIDE AND TELLURIDE AND TIN TELLURIDE
N64-15116 07-25

PREPARATION OF SILICON SUBSTRATES PRIOR TO EPITAXIAL DEPOSITION
AD-429921 N64-15858 07-17

SILICON PLANAR EPITAXIAL TRANSISTOR - RELIABILITY ENGINEERING
QR-5 N64-17865 10-17

DISPROPORTIONATION GROWTH OF EPITAXIAL GERMANIUM, AND REDUCTION GROWTH OF SINGLE CRYSTALS
AFCRL-64-63 N64-18038 10-25

VOIDS IN AGED, SINGLE CRYSTAL, THIN PERMALLOY FILMS GROWN EPITAXIALLY ON SODIUM CHLORIDE
AFCRL-64-42 N64-18060 10-25

SILICON PLANAR EPITAXIAL TRANSISTOR - PRODUCTION METHOD, RELIABILITY, AND LIFETIME
AD-435114 N64-18738 11-17

PRODUCT DEVELOPMENT, PRODUCTION, & QUALITY CONTROL OF SILICON PLANAR EPITAXIALLY DEPOSITED TRANSISTOR
AD-435115 N64-18739 11-17

MASS SPECTROMETER MONITORING SYSTEM FOR DOPANTS IN GAS STREAM DURING EPITAXIAL DEPOSITION OF SILICON
AFCRL-64-178 N64-20163 13-06

RELIABILITY ENGINEERING - PRODUCTION DEVELOPMENT OF SILICON PLANAR EPITAXIAL TRANSISTOR WITH LOW FAILURE RATE
AD-437946 N64-20185 13-09

DEPOSITION OF EPITAXIAL THIN FILM ON SINGLE CRYSTAL METALS
AD-600149 N64-20903 14-25

EPITAXIAL DEPOSITION OF SILICON FILMS ON FOREIGN AND SINGLE CRYSTAL SILICON SUBSTRATES FOR MICROELECTRONICS APPLICATIONS
AD-431993 N64-21370 14-25

EPITAXIAL GROWTH OF GALLIUM ARSENIDE AND GALLIUM PHOSPHIDE USING HETEROGENEOUS GAS-SOLID CHEMICAL REACTIONS
SEL-63-105 N64-21491 14-07

EPITAXIAL GROWTH OF THIN FILMS DEPOSITED BY CATHODIC SPUTTERING & VACUUM EVAPORATION
RTD-TDR-63-4264 N64-21832 15-25

LIFE TESTING OF SILICON EPITAXIAL PLANAR TRANSISTORS
QPR-6 N64-22516 15-17

RELIABILITY ENGINEERING FOR IMPROVEMENT OF SILICON PLANAR EPITAXIAL TRANSISTORS AND MICROELECTRONIC CIRCUITS
AD-601676 N64-24928 17-17

SILICON EPITAXIAL FILMS FOR MICROELECTRONICS AND LARGE AREA SEMICONDUCTOR DEVICES
QR-8 N64-27928 20-25

EPITAXIAL DEPOSITION FABRICATION OF SEMICONDUCTOR DIODES FOR ELECTRONIC TUNING
R-182.1 N64-29390 21-25

DEPOSITION OF EPITAXIAL SILICON ON GALLIUM ARSENIDE SUBSTRATES CONTROLLED BY ELECTRON BEAM EVAPORATOR
AL-TDR-64-135 N64-29643 21-25

ULTRAHIGH FREQUENCY SILICON POWER TRANSISTORS - DIFFUSION EFFECTS, ION BOMBARDMENT DOPING, AND EPITAXIAL DEPOSITION
AL-TDR-64-207 N64-30982 22-09

ULTRAHIGH VACUUM DEPOSITION OF HIGH PURITY THIN EPITAXIAL FILM
BMPR-4 N64-32097 23-17

EPITAXIAL FILM GROWTH OF SILICON MATERIAL FOR SMALL SIZE ELECTRONIC CIRCUITS
AMC-TR-7-995/VII/ N64-32565 23-25

EPOXIDE
EVALUATION OF EPOXY POLYAMIDE PAINT FOR DRYING, WET-TAPE ADHESION, AND HOT-AIR BLAST RESISTANCE
A757 N64-24211 16-19

EPOXY RESIN
FRACTURE TOUGHNESS DETERMINATION OF ADHESIVE ALUMINUM-EPOXY-ALUMINUM JOINTS
MRL-TM-241 PT. 1 N64-11803 03-33

EVALUATION OF TEMPERATURE, HUMIDITY, AND SURFACE ROUGHNESS ON ALUMINUM-EPOXY-ALUMINUM JOINTS
N64-11805 03-33

EPOXY ENCAPSULATED COILS FOR RELAYS
N64-19510 12-17

EPOXY RESINS FOR FILAMENT WOUND MOTOR CASES OF POLARIS MISSILE N64-21991 15-19

AGE FACTOR IN FLEXURE STRENGTH OF LAMINATED EPOXY AND POLYESTER MATERIALS
NOLTR-64-1 N64-23979 16-19

EPOXY RESIN RESEARCH FOR IMPROVEMENT IN FILAMENT REINFORCED PLASTICS
QPR-4 N64-27750 19-07

WETTING BEHAVIOR OF EPOXY RESINS ON GLASS FILAMENTS - FILAMENT WINDING
NRL-6140 N64-29961 21-19

EFFECT OF CHLORINE SUBSTITUTION ON ADHESIVE BOND STRENGTH OF EPOXY RESIN
PA-TM-1396 N64-33067 24-19

MECHANICAL PROPERTIES OF COMPOSITE MATERIAL FORMED BY INFILTRATION OF POROUS CERAMIC WITH EPOXY RESIN
REPT.-1780-TR N64-33823 24-19

EQUATION
S CAUCHY-RIEMANN EQUATION
S CHANDRASEKHAR EQUATION
S CHARACTERISTIC EQUATION
S CONTINUITY EQUATION
S DIFFERENCE EQUATION
S DIFFERENTIAL EQUATION
S DIOPHANTINE EQUATION
S DONNELL EQUATION
S DUFFING EQUATION
S ENERGY EQUATION
S EULER-LAMBERT EQUATION
S FLOW EQUATION
S FOKKER-PLANCK EQUATION
S FREDHOLM INTEGRAL EQUATION
S GIBBS EQUATION
S HAMILTON-JACOBI EQUATION
S HEAT EQUATION
S HELMHOLTZ EQUATION
S HYDRODYNAMIC EQUATION
S INTEGRAL EQUATION
S KINETIC EQUATION
S KLEIN-GORDON EQUATION

S KROOK EQUATION
S LAGRANGE EQUATION
S LAPLACE EQUATION
S LINEAR EQUATION
S LIOUVILLE EQUATION
S MACROSCOPIC EQUATION
S MAXWELL EQUATION
S MOMENT EQUATION
S MOTION EQUATION
S NAVIER STOKES EQUATION
S NONLINEAR EQUATION
S ORBIT EQUATION
S PARABOLIC EQUATION
S PFAFF EQUATION
S PLANCK EQUATION
S POISSON EQUATION
S QUADRATIC EQUATION
S RAYLEIGH EQUATION
S REISSNER EQUATION
S SCHROEDINGER EQUATION

EQUATOR
POSSIBLE OSCILLATION OF WINDS IN EQUATORIAL STRATOSPHERE - SOLAR ACTIVITY EFFECT N64-11721 03-21

INERTIAL OSCILLATION OF EQUATORIAL STRATOSPHERE - SOLAR ACTIVITY EFFECT N64-11722 03-21

TROPOSPHERE AND STRATOSPHERE CIRCULATION NEAR THE EQUATOR N64-16146 08-21

FIELD STRENGTH OF GEOMAGNETIC EQUATORIAL RING CURRENT
TG-198 N64-16485 08-12

MEASUREMENTS OF NIGHT SKY RADIATIONS AT MAGNETIC EQUATOR
AFCRL-63-736 N64-17859 10-12

EQUATORIAL LOCI OF MAGNETIC FIELD OF EARTH AND COSMIC RAY PARAMETERS
AFCRL-64-174 N64-22609 15-12

TROPOSPHERIC CIRCULATION PATTERNS IN EQUATORIAL REGION N64-27936 20-21

OBLIQUE TRANSMISSION PROPERTIES OF MAGNETIC EQUATORIAL SPORADIC E LAYER
WRE-TN-CPD-/T/-108 N64-28135 20-08

EQUATORIAL ELECTROJET
EQUATORIAL ELECTROJET INVESTIGATION BY SOUNDING ROCKETS WITH MAGNETOMETER N64-14415 06-12

EQUATORIAL ORBIT
LONG-TERM EVOLUTION OF CIRCULAR NEAR-EQUATORIAL ORBITS AT MEDIUM DISTANCES FROM EARTH
RAE-TN-SPACE-46 N64-13363 04-29

EFFECTS OF TESSERAL HARMONICS OF EARTH GRAVITY POTENTIAL ON CIRCULAR POLAR AND EQUATORIAL SATELLITE ORBITS
SSD-TDR-63-284 N64-15593 07-29

STATION LOCATIONS FOR LOW ALTITUDE SATELLITE TRACKING NEAR EQUATORIAL ORBITS
SSD-TDR-64-27 N64-18223 10-10

EQUATORIAL SATELLITE
DRIFT OF TWENTY-FOUR HOUR EQUATORIAL SATELLITE DUE TO EARTH GRAVITATIONAL FIELD THROUGH 4TH ORDER
NASA-TN-D-2103 N64-15907 07-29

EQUILIBRIUM
SA CHEMICAL EQUILIBRIUM
SA STABILIZATION
SA THERMODYNAMIC EQUILIBRIUM
CF NONEQUILIBRIUM
CF STEADY STATE
TEMPERATURE MEASUREMENT OF EQUILIBRIUM, NONRADIANT HOT GAS STREAMS
NASA-RP-75 N64-10523 01-13

EQUILIBRIUM TURBULENT HYPERSONIC WAKE CHARACTERISTICS OF SLENDER CONE WITH DIFFERENT EDDY VISCOSITY COEFFICIENTS
R63SD71 N64-11292 02-02

EQUATIONS FOR EQUILIBRIUM CONCENTRATION IN DISSOCIATED REAL GASES WITH TERMS FOR THERMODYNAMIC FUNCTIONS
DVL-299 N64-15030 07-13

GENERAL BOUNDARY LAYER EQUATIONS FOR COMPRESSIBLE LAMINAR FLOW INCLUDING EQUILIBRIUM DISSOCIATION N64-15642 07-11

EQUILIBRIUM AND STABILITY OF CHARGED, CONFINED PLASMA
FTD-TT-61-67/1&2 N64-16038 07-24

EQUILIBRIUM AND NONEQUILIBRIUM PROBLEMS OF BLUNT BODY NEAR STAGNATION POINT IN PLANE AND AXISYMMETRICAL FLOW OF GAS MIXTURE
FTD-TT-63-311/1&2&4 N64-16363 08-13

EQUILIBRIUM SONIC FLOW METHOD OF EVALUATING ELECTRIC ARC AIR HEATER PERFORMANCE
NASA-TN-D-2132 N64-17154 09-24

FORTRAN SUBROUTINE FOR CALCULATING THERMODYNAMIC PROPERTIES OF EQUILIBRIUM AIR AND ELECTRON CONCENTRATIONS AT VARIED DENSITY RANGES
AD-432286 N64-17512 09-20

HYDROGEN-HELIUM LIQUID-VAPOR EQUILIBRIUM
NASA-CR-53343 N64-17791 09-19

EQUILIBRIUM PROPERTIES OF ARGON-FREE AIR AT HIGH TEMPERATURES
RAD-TM-64-12 N64-19069 11-24

PHASE EQUILIBRIA-FREE ENERGY OF SOLUTION RELATIONSHIPS IN LIQUID SODIUM SYSTEMS
NAA-SR-8381 N64-19247 11-23

ASYMPTOTIC DESCRIPTION OF CUSPS OF HYDROMAGNETIC EQUILIBRIUM CONFIGURATION
NYO-10435 N64-19285 11-24

REVERSIBILITY OF LIOUVILLE EQUATIONS AND APPROACH TO EQUILIBRIUM
USNRDL-TR-734 N64-21504 15-20

INDUCED RADIATION & EQUILIBRIUM - QUANTUM RADIO ENGINEERING
FTD-TT-62-867/1&2 N64-21649 15-25

EQUILIBRIUM OF TOROIDAL PINCH IN MAGNETIC FIELD
FTD-TT-63-374/1&2&4 N64-22648 15-23

EQUILIBRIUM AND KINETIC MORPHOLOGY OF SOLID STRUCTURE SURFACES
AROD-2781-8 N64-22908 16-25

INFLUENCE OF PRANDTL NUMBER ON EQUILIBRIUM FLOW OF VISCOUS GAS IN VICINITY OF FORWARD PART OF BLUNT BODY N64-23481 16-11

KINETICS OF JOINT SYSTEMS AND STATE OF MOTION & EQUILIBRIUM IN MAN N64-24341 17-16

EQUILIBRIUM TURBULENT BOUNDARY LAYER
FLD-13 N64-24993 17-11

MEASURING PROPERTIES OF AIR UNDER EQUILIBRIUM AND NONEQUILIBRIUM FLOW CONDITIONS N64-26141 18-11

EQUILIBRIUM OF PLASMA IN TOROID WITH FINITE RESISTIVITY, INERTIA, AND DENSITY GRADIENT DRIFT
MATT-283 N64-26699 18-24

EQUILIBRIUM EQUATIONS FOR FORCE CONCENTRATION

AND RAYLEIGH-RITZ EQUATIONS FOR AIRCRAFT VIBRATION
AVA-64-01 N64-26752 18-33

GYRORESONANT RADIATION AND ABSORPTION IN EQUILIBRIUM MAGNETOACTIVE PLASMA
N64-27156 19-24

HIGH TEMPERATURE EQUILIBRIUM THERMODYNAMIC PROPERTIES OF AIR N64-28177 20-13

LIMITING EQUILIBRIUM OF LOOSE MEDIUM WITH VARIABLE WEIGHT N64-28479 20-33

LIQUID-VAPOR EQUILIBRIUM PROPERTIES OF BINARY AND TERNARY SYSTEMS OF ARGON, NITROGEN, AND OXYGEN
APL-TDR-64-64 N64-28600 20-07

DEFLECTION CURVES DEVELOPED FOR CIRCULAR CROSS SECTION PRESSURIZED TUBE UNDER BENDING AND COMPRESSION
REPT.-6-90-63-114 N64-28615 20-33

HAFNIUM-TANTALUM EQUILIBRIUM DIAGRAM OBTAINED BY OPTICAL PYROMETRY, METALLOGRAPHY, DIFFERENTIAL THERMAL ANALYSIS, AND X-RAY DIFFRACTION
BM-RI-6521 N64-28624 20-18

CLASSICAL STABILITY THEOREM FOR THERMAL EQUILIBRIUM STATE OF ELECTRON GAS IN MAGNETIC FIELD
TR-21 N64-28634 20-24

LIQUID VAPOR EQUILIBRIUM IN HYDROGEN-HELIUM SYSTEMS
NASA-CR-58687 N64-29214 21-11

KINETIC THEORY OF CLASSICAL ELECTRON GAS IN POSITIVE BACKGROUND - EQUILIBRIUM THEORY
N64-29662 21-24

DRIFT EFFECTS ON PARAMETERS OF UPPER F LAYER UNDER DAYTIME EQUILIBRIUM CONDITIONS
NASA-CR-58941 N64-33093 24-12

EQUILIBRIUM OF BARIUM IN SOLAR ATMOSPHERE
N64-33455 24-28

EQUILIBRIUM STRUCTURES IN URANIUM ALLOYS CONTAINING SILICON
MCW-1486 N64-33461 24-18

MULTIPARAMETRIC THEORY OF SPHEROIDS IN HYDROSTATIC EQUILIBRIUM
AD-603073 N64-33483 24-23

EQUIPMENT
S AUDIO EQUIPMENT
S CHECKOUT EQUIPMENT
S CRYOGENIC EQUIPMENT
S ELECTRONIC EQUIPMENT TESTING
S HANDLING EQUIPMENT
S HEATING EQUIPMENT
S HYDRAULIC EQUIPMENT
S LIGHTING EQUIPMENT
S PNEUMATIC EQUIPMENT
S RADAR EQUIPMENT
S RADIO EQUIPMENT
S REFRIGERATING EQUIPMENT
S TELEVISION EQUIPMENT
S TRAINING EQUIPMENT

ERBIUM
OPTICAL SPECTRUM ANALYSIS OF TRIVALENT ERBIUM IONS EMBEDDED IN CRYSTALLINE LANTHANUM FLUORIDE
TDR-169/3250-24/TN-4 N64-13778 04-25

EFFECT OF ELECTRIC FIELD ON GREEN FLUORESCENCE TRANSITION SPECTRUM OF ERBIUM IN SINGLE CRYSTAL CALCIUM FLUORIDE
RTD-TDR-63-4017 N64-22209 15-24

ERBIUM COMPOUND
EXCHANGE INTERACTIONS TO PRODUCE POPULATION INVERSIONS IN LASER MATERIALS - COOPERATIVE MECHANISMS IN CHLORIDES OF PRASEODYMIUM AND ERBIUM
AFCRL-64-261 N64-31985 23-25

ERGODIC PROCESS
ERGODIC THEORY, DIOPHANTINE APPROXIMATION, AND CERTAIN STOCHASTIC SATELLITE PROBLEMS
SSD-TDR-63-234 N64-11469 03-29

REDISCOVERY OF KNOWN MEAN ERGODIC THEOREMS
N64-12167 03-20

ESTIMATION OF VECTOR VALUES IN FINITE STATIONARY ERGODIC MARKOV CHAINS AND CONVERSES TO CODING THEOREM FOR CONTINUOUS MEMORYLESS CHANNELS
NASA-CR-53085 N64-17164 09-20

MAXIMUM LIKELIHOOD ESTIMATION OF VECTOR PARAMETER IN FINITE STATIONARY ERGODIC MARKOV CHAINS
N64-17165 09-20

OPTICAL COHERENCE APPLIED TO ERGODIC FIELDS AND DYNAMIC STATES OF NONLINEAR DIFFERENTIAL EQUATION
USCEC-102-101 N64-31097 22-08

OPTICAL COHERENCE APPLIED TO ERGODIC FIELDS
N64-31098 22-08

EROSION
CF CORROSION
CF WEAR
SPARK EROSION MACHINING OF METALS
FTD-TT-63-103/1&2 N64-11162 02-17

EROSION AND THERMAL SHOCK CHARACTERISTICS OF TUNGSTEN UNDER CONDITIONS OF SIMULATED ALUMINIZED ROCKET PROPELLANT EXHAUST N64-15821 07-18

HIGH TEMPERATURE NONREFLECTIVE EROSION RESISTANT FINISH FOR ALUMINUM ALLOYS USING SOLUBLE INORGANIC COMPOUNDS & ANODIZING PROCESS
AD-432321 N64-18770 11-19

EROSION CONTROL IN ROCKET ENGINE OF LAW WEAPON SYSTEM - ROCKET LAUNCHING DEVICE FOR ARMY
TM-1330 N64-20267 13-27

EROSION INSPECTION OF FOIL AND STRUT ASSEMBLIES
USNASL-9110-P-IJ N64-23000 16-18

HEAT AND EROSION RESISTANT MATERIALS
FTD-TT-62-1252/1&2 N64-23316 16-01

METALLOGRAPHIC ANALYSIS OF ELECTRODE EROSION PRODUCTS FORMED DURING SPARK EROSION MACHINING
N64-23505 16-18

PLASMA TORCH OXIDATION RESISTANCE AND EROSION - EVALUATION OF PYROLYTIC MATERIALS
N64-25425 17-19

EROSION AND OXIDATION RESISTANT COATING FOR GRAPHITE
REPT.-5-RD-64 N64-26201 18-27

SPARK GAP STUDIES - ELECTRODE EROSION MEASUREMENTS USING COPPER-TUNGSTEN MATERIAL AND TRIGGERING SCHEME EVALUATION
USAELRDL-TR-2454 N64-27771 19-09

PLASMA ARC TESTS ON PYROLYTIC MATERIALS FOR OXIDATION RESISTANCE AND EROSION EVALUATION
NASA-CR-58148 N64-27819 19-18

RADIOACTIVE ISOTOPES FOR MEASUREMENT OF CAVITATION-EROSION DAMAGE ON METALS
NASA-CR-58072 N64-27829 19-18

PLASMA NONUNIFORMITY EFFECTS ON GRID EROSION IN ELECTRON BOMBARDMENT ION ENGINE
AIAA PAPER-64-688 N64-28363 20-27

CAVITATION EROSION RESISTANCE AND RELATED MECHANICAL PROPERTIES OF HYDROFOIL STRUCTURAL ALLOYS AND COATINGS
USNASL-9110-P-14 N64-29578 21-18

MATERIALS EROSION BY AIRBORNE DUST
AR-499 N64-31250 22-17

ERROR
ASSUMPTIONS AND ERRORS OF MAGNETOTELLURIC SOUNDING THEORY - GEOMAGNETIC MEASUREMENT
N64-10165 01-12

DISPERSION AND ERROR IN GUIDANCE EFFECT ON RANGER LUNAR LANDING - MONTE CARLO METHOD ANALYSIS
NASA-CR-52540 N64-10336 01-32

APPROXIMATION OF IDEAL DIPOLE WITH A SOLENOID - DIPOLE FIELD PLUS ERROR TERMS N64-10667 01-09

ERROR ANALYSIS & FIX ACCURACY OF OMEGA NAVIGATION SYSTEM
NEL-1185 N64-11173 02-22

AIR TRAFFIC CONTROL - ERROR DISTRIBUTION AND DATA ACQUISITION FOR NAVIGATION SYSTEMS N64-11405 02-22

ERROR ANALYSIS OF SPACE VEHICLE TRAJECTORY NAVIGATION SYSTEM BY LINEAR FILTER THEORY
NASA-TN-D-2129 N64-12718 04-29

SIMPLIFIED MODEL OF MIDCOURSE MANEUVER EXECUTION ERRORS
NASA-CR-53032 N64-13278 04-29

DYNAMIC PROGRAMMING OF TIMING OF MIDCOURSE GUIDANCE MANEUVERS OF SPACECRAFT FOR MINIMIZING FINAL ERROR
NASA-CR-53000 N64-13281 04-29

ERROR ANALYSIS FOR MEASUREMENTS MADE WITH RADIOSONDE ANEROID BAROMETER
RSIC-110 N64-13781 05-15

ERROR PROPAGATION IN ORBIT DETERMINATION - MATHEMATICAL ANALYSIS
WDL-TR-1943, VOL. 3 N64-14093 05-29

ERROR ANALYSIS OF HUMAN PERFORMANCE ON TRACKING TASKS UNDER STRESS
AD-428112 N64-14168 05-14

FACTORS AFFECTING ACCURACY OF POSITION FIX FOR LUNAR TRAJECTORIES
NASA-TN-D-2178 N64-14394 06-29

ERROR ANALYSIS FOR DOPPLER DETERMINED SATELLITE ORBITS AROUND OTHER PLANETS N64-14438 06-29

DETERMINATION OF NUMBER OF MEASUREMENTS NEEDED FOR DESIRED ACCURACY
RSIC-113 N64-14963 06-20

ERROR ANALYSIS OF SATELLITE ORBITAL PARAMETERS OBTAINED BY NAVAL SPACE SURVEILLANCE SYSTEM
NRL-5864 N64-15127 07-09

DETERMINATION OF ORBITAL ERROR BEHAVIOR BY RADAR TRACKING DATA N64-15260 07-29

GEOMETRIC DILUTION OF PRECISION - ERROR PREDICTION N64-15313 07-20

DETERMINATION AND CORRECTION OF ERRORS OF ATLANTIC MISSILE RANGE BALLISTIC CAMERA SYSTEMS REQUIRED FOR MISTRAM CALIBRATION N64-15314 07-15

INERTIAL GUIDANCE SYSTEM ERROR ANALYSIS N64-15318 07-22

RADAR SYSTEMS ACCURACY EVALUATION N64-15321 07-08

CYCLIC ERROR IN MISSILE FREE-FALL DATA DUE TO ATMOSPHERIC REFRACTION N64-15322 07-20

SOME NUMERICAL CHACTERISTICS OF ERROR MODEL ESTIMATES OF TRAJECTORIES N64-15326 07-20

BREADBOARD OF INSTRUMENTS FOR ATTITUDE SENSING AND ORBITAL LAUNCH ERROR ANALYSIS
NASA-CR-55732 N64-15872 07-22

ERROR IN URANIUM HEXAFLUORIDE ISOTOPIC RATIO MEASUREMENTS DUE TO IMPURITY OF RESIDUAL GASES IN ION INTERACTION
K-1400 N64-16017 07-23

ERROR PROTECTION IN INFORMATION ENCODING
AMRL-TDR-63-83 N64-16433 08-20

ERRORS IN ATMOSPHERIC TEMPERATURE STRUCTURE SOLUTIONS FROM REMOTE RADIOMETRIC MEASUREMENTS
NASA-CR-53120 N64-16755 08-23

RANDOM PHASE ERRORS ON RESPONSE OF IDEALIZED SYNTHETIC-APERTURE MAPPING RADAR WITH HOMOGENEOUS ROUGH TERRAIN TARGET
TDR-269/9990/-4 N64-17360 09-08

EFFECTS OF CURVILINEAR AND DISCRETE TRANSFORMATIONS OF ERROR INFORMATION ON HUMAN TRACKING PERFORMANCE
AMRL-TDR-63-137 N64-17510 09-14

ERRORS IN NUMERICAL EVALUATION OF MOMENTS OF PARAMAGNETIC RESONANCE LINE SHAPE
SSD-TDR-64-2 N64-17899 10-23

STATISTICAL METHOD OF REDUCING RANDOM ERRORS IN OBSERVED OR CALCULATED DATA
RTD-TDR-63-4020 N64-17957 10-20

ORBIT DETERMINATION ERROR FOR VEHICLES IN NEAR CIRCULAR LUNAR ORBITS N64-18086 10-29

BIAS ERRORS INCLUDED IN MINIVAR N64-18236 10-20

REVISIONS FOR TRACK-WHILE-SCAN NAVIGATION SYSTEMS REFORMULATION OF LEAST SQUARES NAVIGATION COMPUTATION AND ERROR ANALYSIS
NASA-CR-53651 N64-18499 10-22

MEAN GRAVITY ANOMALIES FOR RECTANGULAR AREA OBTAINED FROM POINT OR PROFILE GRAVITY VALUES - ERROR ANALYSIS
AFCRL-64-132 N64-19663 12-12

ORBITAL CALCULATION ERROR ANALYSIS - INERTIAL NAVIGATION COMPUTATION, FIRST ORDER ORBITAL ERROR ANALYSIS, AND SECOND ORDER GRAVITATIONAL EFFECTS
SMFD-Z-1 N64-19861 12-29

ERROR ANALYSIS FOR POSITION AND VELOCITY PREDICTION OF NEARLY CIRCULAR SATELLITE ORBITS
W-6637 N64-19866 12-29

DIRECT CURRENT-RADIO FREQUENCY SUBSTITUTION ERROR IN DUAL ELEMENT BOLOMETER MOUNTS
NBS-7934 N64-20437 13-15

EFFECTS OF ATMOSPHERIC DATA ERRORS ON STRUCTURAL DESIGN LOADS OF LAUNCH VEHICLES
SSD-TDR-63-383 N64-20463 13-30

COMPUTER PREDICTION OF RANDOM ERRORS IN TRAJECTORY MEASURING SYSTEM
SAD-131 N64-20650 13-08

DETECTION OF FREQUENCY ERRORS IN NUCLEAR MAGNETIC RESONANCE OSCILLATOR N64-21010 14-23

PARTIAL DERIVATIVES FOR COMPUTING ERRORS IN ELLIPTICAL ORBIT AND IMPACT PREDICTION
SSD-TDR-63-255 N64-21085 14-29

ERROR IN ESTIMATING MISSILE ANGULAR POSITION AND ANGULAR VELOCITY AT CUT-OFF
P-2796 N64-21407 14-29

LINEAR INTERPOLATION ERRORS OF ASTRONOMICAL-GEODETICAL DEFLECTIONS
JPRS-24666 N64-22726 16-12

ERROR ANALYSIS OF PHASED ANTENNA ARRAY DIRECTION FINDERS
EDL-E79 N64-22905 16-08

ERRORS IN CONSTRUCTING MAGNETIC COMPONENTS OF ACCELERATORS
LNF-64/1 N64-23020 16-23

PRODUCTION METHOD - SURFACE PLACEMENT ERRORS IN MACHINING COMPONENTS N64-23075 16-17

COMPUTER PROGRAM FOR MONTE CARLO ERROR ANALYSIS OF SCANNING CAMERA NAVIGATION CONCEPT
NASA-CR-56455 N64-24044 16-22

ERRORS OF MULTIPLIER & SUMMING CIRCUIT OF POTENTIOMETRIC COMPUTERS N64-24517 17-09

FREQUENCY ERRORS OF RESISTANCE-CAPACITANCE

OSCILLATORS N64-24537 17-09

CALCULATION OF RADAR ACCURACY AND DETERMINATION OF TARGET & POSITION-LINE ERROR N64-24641 17-09

PROGRAMMING - CONSTRUCTION OF LONG CODE FROM SHORT CODE FOR ERROR ANALYSIS N64-24694 17-20

OPTIMUM TRANSFER FUNCTION FOR AUTOMATIC CONTROL SYSTEM N64-24702 17-20

EFFECTS OF ERRORS IN ABSORPTION COEFFICIENT ON NON-GREY MODEL STELLAR ATMOSPHERE
SUI-64-3 N64-25098 17-29

MEASURING LOW ABSOLUTE PRESSURE USING MANOMETER
FTD-TT-64-81/1&2&4 N64-25460 17-11

ERRORS IN ULTRASONIC SOUND PROPAGATION PARAMETER MEASUREMENTS
NRL-6026 N64-25498 17-23

ERROR CORRECTING CODES AT LOW SIGNAL TO NOISE RATIOS
NASA-CR-56789 N64-25689 17-08

ERROR REDUCTION IN VIBRATORY GYROSCOPES BY DOUBLE MODULATION N64-25879 18-15

GUIDANCE ERROR FROM THRUST DECAY IN POWERED VERTICAL FLIGHT OF ROCKETS
ADM-06-06-63.2 N64-25916 18-22

DATA PROCESSING OF INTERPLANETARY ERROR PROPAGATION INFORMATION
WDL-TR-2185, ADDEND. 1 N64-26285 18-20

DETERMINATION OF POSITION ERROR AT LOW ALTITUDES OF AIRSPEED AND STATIC PRESSURE MEASUREMENT SYSTEMS OF AIRCRAFT
AD-64-37 N64-26306 18-15

MISMATCH ERRORS AND LAW ALGORITHMS FOR SELF-TUNING SYSTEM N64-26394 18-09

ERROR ANALYSIS OF INERTIAL NAVIGATION SYSTEMS N64-26396 18-22

NONLINEAR AVERAGING ERRORS IN RADIATION PYROMETRY
NASA-TN-D-2406 N64-26707 18-13

ERROR ANALYSIS OF TWO-COMPONENT STRAIN GAUGE BALANCE FOR NORMAL FORCE AND CENTER OF PRESSURE DETERMINATIONS OF WIND TUNNEL MODELS
SC-RR-64-698 N64-26744 18-15

SELECTION OF MULTIVARIBLE APPROXIMATING FUNCTION SATISFYING GIVEN ERROR TOLERANCE IN SENSE OF LEAST SQUARES
NASA-CR-58207 N64-26870 18-20

NOISE IMMUNITY OF COMMUNICATION SYSTEMS WITH ERROR CORRECTING FEEDBACK CHANNELS
JPRS-25853 N64-27065 19-08

ERRORS IN USE OF AIRBORNE INFRARED RADIATION THERMOMETER FOR OCEAN SURFACE TEMPERATURE MEASUREMENT
AD-601473 N64-27622 19-15

ERROR ANALYSIS OF RADIOLOCATION PREDICTIONS AND EVALUATION OF AVERAGE ERROR RANGE
RRL-230 N64-27679 19-08

GENERAL THEORY ON MULTIVARIABLE ERROR-FREE RIPPLE FREE SAMPLED-DATA CONTROL SYSTEM
NASA-CR-56780 N64-27836 19-09

NUMERICAL WEATHER FORECASTING - STATISTICAL ANALYSIS OF ERRORS IN LINEARIZATION OF VORTICITY EQUATION FOR DIFFERENT ATMOSPHERIC MOVEMENTS N64-27937 20-21

CODING TECHNIQUES FOR ERROR DETECTION AND CORRECTION IN LONG RANGE COMMUNICATION
USAELRDL-2450 N64-28635 20-08

OPERATING PERFORMANCE AND ERROR ANALYSIS OF RADAR SYSTEMS AT WOOMERA
WRE-TN-SAD-113 N64-28733 20-08

INPUT AND OUTPUT REQUIREMENTS FOR COMPUTER PROGRAM FOR ERROR ANALYSIS OF TRACKING SYSTEMS
NASA-TM-X-55052 N64-28931 20-08

ASYMPTOTIC ESTIMATES OF ERROR PROBABILITY FOR DATA TRANSMISSION THROUGH COMMUNICATION CHANNEL WITH SYMMETRIC MATRIX OF TRANSACTION PROBABILITIES
FTD-TT-63-543/1&2&4 N64-29025 21-08

ERROR ANALYSIS FOR MICROCALORIMETER WITH CIRCULATING LIQUID N64-29211 21-15

ERROR IN HEIGHT VARIATION OF TROPOPAUSE BASED ON RADIOSONDE DATA
T-R-421 N64-29428 21-21

FLUTTER INFLUENCE ON ERRORS IN SPECTRUM ANALYZER READINGS N64-29465 21-09

SNELL LAW AND GEOMETRICAL OPTICS USED TO CALCULATE ERRORS IN RADAR POSITION OBSERVATIONS DUE TO ATMOSPHERIC REFRACTION
USAERDAA-MET-7-64 N64-29550 21-08

STANDARD TECHNIQUES FOR DETERMINING ACCURACY ESTIMATES FOR RANDOM, SYSTEMATIC, AND PROPAGATED ERRORS IN INSTRUMENTATION SYSTEMS
IRIG-103-64 N64-29611 21-15

NONRANDOM RANGE, AZIMUTH, AND ELEVATION RESIDUALS INDUCED AT OBSERVATION SITE
TOR-269(4110-01)-46 N64-29682 21-08

ERROR IN BINARY MULTIPLICATION BY DIGITAL COMPUTERS N64-29741 21-20

ERROR THEORY IN MATRIX ALGEBRA AS RELATED TO ENGINEERING PROBLEMS
ARL-TRANS-21 N64-30030 21-20

CYBERNETICS - AUTOMATIC CONTROL SYSTEMS, ERRORS, SERVOMECHANISMS, LINEAR & NONLINEAR SYSTEMS, AND RELIABILITY
JPRS-26336 N64-30207 22-01

METHOD OF DECODING FOR BOSE-CHAUDHURI CODES WITH CORRECTION OF TRIPLE ERRORS N64-30211 22-20

PROBABILITY OF ERROR IN AUTOMATIC CONTROL SYSTEMS WITH RANDOM PARAMETERS OF CONTROL N64-30221 22-09

ERRORS ARISING IN INERTIAL NAVIGATION SYSTEM N64-30229 22-22

ATTITUDE ERROR ANALYSIS OF SPIN STABILIZED VELOCITY PACKAGE OF ATHENA ROCKET
BSD-TDR-64-69 N64-30708 22-30

ERROR STATISTICS ON DATA TRANSMISSION OVER TELEPHONE CIRCUITS WITH RANDOM LINE NOISE INTERFERENCE
AD-603461 N64-30883 22-08

BORESIGHT ERROR IN VARIOUS MONOPULSE TRACKING RADAR SYSTEMS
GE/EE/63-18 N64-31152 22-09

AVERAGING REDUNDANT MEASUREMENTS FOR MAXIMUM PRECISION OF ERROR-CORRELATED TRACKING VECTORS
PMR-TM-63-12 N64-31262 22-20

QUANTIZED DATA ATTITUDE CONTROL SYSTEM FOR SPACE VEHICLE
SSD-TDR-64-104 N64-31633 23-06

GEOMETRY AND FIRST-ORDER ERROR STATISTICS FOR THREE- AND FOUR-STATION HYPERBOLIC POINT LOCATIONS ON SPHERICAL EARTH
AFCRL-64-461 N64-31805 23-12

SLOW MALFUNCTION ERROR ANALYSIS OF TRAJECTORY FOR

GEMINI LAUNCH VEHICLE
LV-306 N64-31837 23-10

ERROR ANALYSIS OF TURBULENT FLUX MEASUREMENTS - EDDY FLUXES OF MOMENTUM, HEAT, AND WATER VAPOR
N64-31847 23-15

ERRORS AND OTHER CONSIDERATIONS IN INSTRUMENT CONSTRUCTION
JPRS-26528 N64-31851 23-15

DISTORTION ERRORS IN VOLTAGE CURVE OF STATIC TRANSFORMER FOR WATTMETER N64-31852 23-09

METHODICAL ERRORS IN DIFFERENTIAL STRING CONVERTER OF ENERGY INTO FREQUENCY N64-31864 23-23

ELECTRONIC TRACKING ERRORS GENERATED BY REENTRY AND FLAME PLASMA EFFECTS
TM-3865 N64-31891 23-08

NOMOGRAMS FOR REDUCTION OF CIRCULAR ERROR OF POSITION DATA IN INERTIAL AND RADAR NAVIGATION SYSTEMS
NADC-AI-6361 N64-32325 23-22

STAR BACKGROUND TO REDUCE POSITION ERROR IN PHOTOGRAPHIC GEODETIC OBSERVATIONS
N64-32385 23-12

ERROR ESTIMATION IN TEMPERATURE AND THERMAL STRESS CALCULATIONS - BOUNDS FOR THREE-DIMENSIONAL HEAT CONDUCTION PROBLEMS
CU-1-64-ONR-4259/07/CE N64-32588 23-13

ERRORS IN MEASUREMENTS OF AURORAL POSITIONS BASED ON ALL-SKY PHOTOGRAPHS N64-32719 24-12

ANALYZER FOR ERROR DETECTION AND ANALYSIS OF SPACEBORNE DIGITAL TAPE RECORDERS
NASA-TN-D-1863 N64-32834 24-15

ERROR ANALYSIS OF ORBITAL PARAMETERS - PARAMETER OPTIMIZATION
NASA-CR-58781 N64-33181 24-29

ERROR CORRECTING DEVICE
DETERMINING STABILIZATION ACTION OF CONTROLLER TO MINIMIZE INTEGRAL QUADRATIC ERROR IN LINEAR CONTROL SYSTEM WITH TIME LAGS
JPRS-19822 N64-10591 01-09

AUTOTRACK SYSTEM FOR HORN-REFLECTOR ANTENNA - ERROR CORRECTING DEVICE N64-10888 02-08

CORRECTION OF DYNAMIC ERROR IN MACHINE TOOLS WITH PROGRAMMED CONTROL N64-11614 03-17

ARITHMETIC CODING SYSTEM WITH DIGITAL COMPUTER FEEDBACK SYSTEM FOR CORRECTING INDIVIDUAL ERRORS
N64-11834 03-20

CORRECTION FACTORS AFFECTING EVALUATION OF TOTAL BETA RADIOACTIVITY OF FISSION PRODUCTS
EUR-424.F N64-13142 04-23

IMPROVED ACCURACY OF ANALYTICAL AERIAL PHOTOGRAMMETRIC TRIANGULATION PROBLEM BY INCLUDING ERROR CORRECTION IN COMPUTER PROGRAM
R62-4 N64-14014 05-20

METHOD FOR ELIMINATING ERROR IN CALIBRATION OF RADIOMETERS
SSD-TDR-63-310 N64-14669 06-15

BINARY VARIABLE LENGTH CODES CAPABLE OF DETECTING AND CORRECTING TRANSMISSION ERRORS
AFCRL-64-9 N64-15736 07-20

PERFORMANCE CHARACTERISTICS OF ERROR LOCATION CODES FOR SPACE PROBE TELEMETRY SYSTEMS
N64-16178 08-08

FRAME SYNCHRONIZATION AND ERROR CORRECTION BY PULSE-CODE MODULATED SYSTEMS N64-16180 08-08

CONTROL OF DISCRETE STOCHASTIC PROCESSES AS FUNCTION OF COST FOR MAKING CORRECTIVE ACTIONS
AMRL-TDR-63-111 N64-17508 09-14

ERROR DETECTION AND CORRECTION IN DATA TRANSMISSION SYSTEM
AFCRL-64-121 N64-19208 11-08

MULTIPLE LOOP CONFIGURATION IN COUNTERPOISE SYSTEM TO ELIMINATE VHF OMNIDIRECTIONAL RANGE /VOR/ BEARING ERRORS
RD-64-47 N64-20439 13-09

EFFICIENT PULSE CODE MODULATION ERROR CORRECTION AND SYNCHRONIZATION CODE
NASA-TN-D-2317 N64-22671 15-08

PARTIAL FRACTIONS AND ERROR-CORRECTING CODES - BOSE-CHAUDHURI CODES
ESD-TDR-64-3489 N64-29605 21-20

REDUCTION OF FOLD-OVER ERRORS IN FLUX-GATE MAGNETOMETERS
NASA-TN-D-2159 N64-31729 23-13

DATA TRANSMISSION COMMUNICATION SYSTEM - ERROR CONTROL THROUGH CODING
RADC-TDR-64-149, VOL. I, N64-33537 24-08

RECURRENT BURST-ERROR-CORRECTING CODES
RADC-TDR-64-149, VOL. II, N64-33538 24-08

ERROR CONTROL THROUGH CODING - VARIABLE REDUNDANCY CODES
RADC-TDR-64-149, VOL. III N64-33539 24-08

DATA TRANSMISSION COMMUNICATIONS SYSTEM - RESIDUE CODES FOR ERROR CONTROL
RADC-TDR-64-149, VOL. IV N64-33540 24-08

ERROR CONTROL TECHNIQUES - CODING AND RETRANSMISSION ON REQUEST FOR RELIABLE DIGITAL DATA TRANSMISSION
RADC-TDR-64-149, VOL. V N64-33541 24-08

ERROR CONTROL SYSTEMS DESIGN
RADC-TDR-64-149, VOL. VI N64-33542 24-08

ADAPTIVE ERROR CONTROL SYSTEMS
RADC-TDR-64-149, VOL. VII N64-33543 24-08

COMPUTER PROGRAM FOR ERROR STATISTICAL CONTROL
RADC-TDR-64-149, VOL. VIII N64-33544 24-08

ERROR FUNCTION
ERROR FUNCTION APPROXIMATION BY LEAST SQUARES METHOD N64-20961 14-20

OSCILLATOR STABILITY IN COMMUNICATION AND RADAR SYSTEMS
TDR-269/9990/-9 N64-29822 21-09

ERROR SIGNAL
INERTIAL ACCELEROMETERS FOR ATTITUDE ERROR SIGNAL AND ORBITAL SHAPE AND SIZE DETERMINATIONS
N64-15259 07-22

CONICAL SCANNING ERROR SIGNAL OF BROADBAND ANTENNA IN SATELLITE TRACKING
EDL-M442 N64-19558 12-09

MULTICHANNEL TELEMETRY DEVICE USING ERROR SIGNAL GENERATING COMPARATOR AND MEMORY CIRCUIT
FTD-TT-63-95/1&2&4 N64-23419 16-08

ERROR PROBABILITIES FOR UNCODED M-ARY TRANSMISSION OF D-ARY DATA
TR-63-6-BF N64-32079 23-08

ERROR PROBABILITIES FOR NONORTHOGONAL M-ARY SIGNALS UNDER SYNCHRONIZED PHASE-COHERENT RECEPTION
TR-63-7-RF N64-32080 23-08

ESCAPE
NUCLEAR ROCKET TESTING FOR SUBORBITAL, ORBITAL, & ESCAPE VELOCITIES - SAFETY, FLIGHT SEQUENCES, & NUCLEAR HAZARD
LMSC-A303791 N64-11887 03-27

AEROSPACE MEDICINE - ESCAPE FROM HIGH SPEED AIRCRAFT AND SURVIVAL UNDER ENVIRONMENTAL STRESS
AGARDOGRAPH-52 N64-13493 04-18

RESCUE AND ESCAPE SYSTEMS FROM TALL STRUCTURES
NASA-CR-53344 N64-17790 09-16

CONTROLLABLE THRUST DEVICES FOR ESCAPING FROM MANNED SPACECRAFT
FA-R-1672 N64-18365 10-27

INFLATED PARAGLIDER FOR ESCAPE FROM MANNED ORBITING SPACE STATION N64-23715 16-32

PROPELLANT ACTUATED DEVICES FOR ESCAPE SYSTEMS
REPT.-90-1 N64-24974 17-26

ELECTRIC IGNITION ELEMENT TESTING FOR USE IN PROPELLANT ACTUATED ESCAPE SYSTEMS
FA-R-1725 N64-26202 18-06

HELIOCENTRIC EARTH MARS RENDEZVOUS ORBITS AND PLANET-CENTERED ESCAPE TRAJECTORIES
NASA-CR-56975 N64-27451 19-29

LAMINAR CONVECTIVE HEAT TRANSFER AND BOUNDARY LAYER EQUATIONS FOR CONES AT ESCAPE VELOCITY
NASA-TN-D-2463 N64-27807 19-11

ESCAPE PROBABILITY APPROXIMATIONS IN LUMPED RESONANCE ABSORBERS
NAA-SR-9744 N64-28129 20-23

PARAMETER OPTIMIZATION IN VARIATIONAL CALCULUS AND TIME OF FLUCTUATION ESCAPE OF DYNAMIC SYSTEM FROM GIVEN FIELD
JPRS-25752 N64-28437 20-20

ESCHERICHIA
RADIORESISTANCE OF THERMOTOLERANT STRAINS OF ESCHERICHIA BACTERIA N64-13696 05-16

MUTATIONAL SYNERGISM BETWEEN ULTRAVIOLET RADIATION AND PURINES IN ESCHERICHIA COLI N64-19544 12-16

GENETIC RECOMBINATION BETWEEN RESISTANCE TRANSFER FACTOR AND CHROMOSOME OF ESCHERICHIA COLI
NASA-RP-296 N64-28231 20-16

RELATIONSHIP BETWEEN GROWTH AND GRAVITY IN BACTERIA - ESCHERICHIA COLI N64-28649 20-16

ELECTRON MICROSCOPIC EXAMINATION OF BACTERIAL CELLS SUBJECTED TO STRONG GRAVITATIONAL FIELDS N64-28767 20-16

ESCHERICHIA & SPECIES
RADIORESISTANCE OF THERMOTOLERANT STRAINS OF ESCHERICHIA BACTERIA N64-13696 05-16

ESTER
SYNTHESIS OF ALPHA-L-ASPARTYL-L-SERYLGLYCINE - TRIPEPTIDE ESTER N64-10344 01-07

PREPARATION OF VINYL, STYRENE, BUTADIENE, ACRYLATE, AND POLYESTER FLUORINE MONOMERS
JPRS-22383 N64-11983 03-07

SYNTHESIS OF THIOLS AND THEIR ACETYL DERIVATIVES FROM CHLOROESTERS
JPRS-22953 N64-14072 05-07

CHOLINOLYTIC ACTIVITY, BASICITY, AND LIPOIDOPHILIC PROPERTIES OF VARIOUS ALKYLAMINO-ETHYL ESTERS OF BENZILIC ACID N64-15385 07-11

STRESS-STRAIN BEHAVIOR OF AROMATIC POLYAMIDE/HT-1/ AND POLYESTER/DACRON/ - ORGANIC FIBERS
SM-44641 N64-19007 11-19

SYNTHESIS OF CRYSTALLINE ESTERS FROM CYCLIC ALCOHOLS AND CHEMICAL REACTIONS OF AMINES
ARDD-2381-5 N64-20332 13-20

POLYESTER PLASTIC MATERIAL & METAL BONDING ADHESIVES
FTD-TT-62-940/1 N64-23451 16-01

POLYESTER PLASTIC MATERIALS N64-23452 16-19

AGE FACTOR IN FLEXURE STRENGTH OF LAMINATED EPOXY AND POLYESTER MATERIALS
NOLTR-64-1 N64-23979 16-19

MECHANISMS OF HYDROLYSIS OF PHOSPHONATE ESTERS
AD-437607 N64-24226 16-07

FIRE RESISTANT, WATER-BASE LUBRICANT AND HYDRAULIC FLUID - ESTER SYNTHESIS, BLENDING FORMULAS, AND VISCOSITY
AD-600568 N64-25984 18-19

SYNTHESIS OF ALPHA AMIND ACID METHYL ESTERS N64-27970 20-07

FORMATION OF P-PHENYL PHOSPHONIC ESTER AND CHARACTERISTICS OF ESTER-ALKYL RADICALS N64-28046 20-07

SHADE STANDARDS AND TOLERANCES IN BLUE WOOL-POLYESTER CLOTH
SEG-TDR-64-41 N64-32118 23-17

ETA-MESON
BOOTSTRAP APPROXIMATION TO PREDICT PI-ETA MESON RESONANCE
UR-875-5 N64-19486 12-23

PHOTOPRODUCTION AND NEUTRAL DECAY MODES OF ETA-MESON PARTICLE
LNF-64/6 N64-23224 16-23

DETERMINATION OF ETA PARTICLE LIFETIME FROM ELECTRON-POSITRON BEAM COLLISIONS
LNF-64/15 N64-25643 17-23

ETCHING
SILICON SINGLE CRYSTAL - EXPOSING DISLOCATIONS BY ETCHING N64-10706 02-18

CHEMICAL & ELECTROLYTIC POLISHES & DISLOCATION ETCHES FOR SEMICONDUCTORS
NOLTR-63-156 N64-11174 02-07

DISLOCATIONS IN CRYSTALS OF SALTS AND METALS AND THEIR BEHAVIOR DURING STRESS, TWINNING, AND ETCHING
JPRS-22076 N64-12757 04-25

DISLOCATION STRUCTURE IN LEAD SULFIDE CRYSTALS AS REVEALED BY CONCENTRATED STRESS LOADING AND SELECTIVE ETCHING N64-12760 04-25

CHEMICAL BEHAVIOR OF SEMICONDUCTORS - ETCHING CHARACTERISTICS
AD-401398 N64-14022 05-25

ETCHANTS AND ETCHING TECHNIQUES FOR PRODUCTION OF DISLOCATION ETCH PITS ON SODIUM CHLORIDE
NASA-TN-D-2325 N64-22022 15-19

VOLTAGE REGULATOR FOR DIFFERENTIAL ELECTROLYTIC ETCHING OF METALS - METALLOGRAPHY
FTD-TT-64-19/1&2 N64-22176 15-17

EDDY CURRENTS, ULTRASONIC, THERMOCONDUCTIVITY, ETCHING, AND STRESS-STRAIN DISTRIBUTION METHODS FOR MATERIAL SORTING
AD-439601 N64-26426 18-10

OXIDATION, ETCHING, AND DIFFUSION PROCESSES FOR FUNCTIONAL ELECTRONIC BLOCKS AND OTHER PLANAR SEMICONDUCTOR DEVICES
ASD-TDR-8-133-3 N64-26502 18-17

CZOCHRALSKI APPARATUS, RUBY CRYSTALS, CRYSTAL EVALUATION, REFRACTIVE INDEX VARIATION, AND ETCHING OF DISLOCATIONS
AD-443460 N64-30778 22-25

ETCHING OF DISLOCATIONS IN RUBY AND SAPPHIRE WITH PHOSPHORIC ACID AT HIGH TEMPERATURES N64-30780 22-25

ETHANE
MASS SPECTRA AND ION-MOLECULE REACTIONS IN ETHANE, PROPANE, AND BUTANE UNDER HIGH PRESSURE - SQUID PROJECT
HUM-4-P N64-13257 04-07

PERFORMANCE OF HYDROGEN AND NONCRYOGENIC GASES OF

AMMONIA, LITHIUM-HYDRIDE, METHANE, ETHANE, & WATER AS ELECTROTHERMAL THRUSTOR PROPELLANTS
NASA-TN-D-2253 N64-16120 08-27

ETHER
INFRARED SPECTRA OF METHOXYACETONITRILE AND METHYL-CHLOROMETHYL-ETHER IN SOLUTION AND IN VAPOR AND LIQUID STATES
AFCRL-63-758 N64-12293 03-19

ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY OF ETHANOL AND ETHER GLASSES - RADIAL FORMATION UPON IRRADIATION
TDR-269/4240-30/-4 N64-17358 09-23

COORDINATION CHAIN POLYMER OF QUINIZARIN & BIS-ACETOACETYL-PHENYL ETHER
RSIC-168 N64-21577 15-07

SYNTHESIS OF ETHERS, PHENOLS, AND RELATED COMPOUNDS HAVING NITROGEN-CONTAINING GROUPS
AD-439242 N64-25112 17-07

HYDROCARBONS, ESTER BASE OIL, AND POLYPHENYL ETHER FOR LUBRICATING VACUUM MELTED STEEL BALL BEARINGS AT HIGH SPEEDS AND TEMPERATURES
NASA-CR-59283 N64-33330 24-17

ETHYLENE
SA POLYETHYLENE
MERCURY PHOTOSENSITIZED OXIDATION OF TETRAFLUOROETHYLENE
SSD-TDR-64-106 N64-27470 19-07

CONDENSATION OF ALPHA ETHYLENIC KETONES IN BASIC HOMOGENEOUS OR HETEROGENEOUS MEDIUM
N64-32899 24-07

ETHYLENE COMPOUND
RAMAN SPECTRA & INFRARED ABSORPTION SPECTRUM OF ETHYLENIMINE AND ITS ALKYL SUBSTITUTES
RSIC-5 N64-13811 05-07

LOW VELOCITY DETONATION IN NITROGLYCERIN-ETHYLENE GLYCOL DINITRATE
AD-428376 N64-14465 06-26

X-RAY FLUORESCENCE TABLES FOR ETHYLENEDIAMINE DETROTARTRATE
Y-1470-D N64-21742 15-25

EXPLOSIVE SENSITIVITY CHARACTERISTICS OF NITROGLYCERIN-ETHYLENEGLYCOL DINITRATE
PR-9 N64-23112 16-26

ETIOLOGY
ETIOLOGY OF DECOMPRESSION SICKNESS - GAS-BUBBLE FORMATION IN VASCULAR SYSTEM AND TISSUES
DVL-351 N64-26665 18-16

ETIOLOGY OF DYSBARISM - DECOMPRESSION SICKNESS
AD-601600 N64-32400 23-16

ETTINGSHAUSEN COOLER
S ISOTHERMAL PROCESS

ETTINGSHAUSEN EFFECT
ETTINGSHAUSEN SEMICONDUCTOR LASER - FEASIBILITY STUDY
USAELRDL-TR-2374 N64-15614 07-25

EUCLIDEAN SPACE
TOPOLOGY OF MINIMAL RIEMANN SURFACES IN THREE-DIMENSIONAL EUCLIDEAN SPACE AND EUCLIDEAN SPACE OF ARBITRARY DIMENSION
TR-23 N64-14484 06-23

SCHROEDINGER OPERATORS IN EUCLIDEAN SPACE
MRC-441 N64-16622 08-20

PARAMETRIZATION OF EUCLIDEAN THREE-DIMENSIONAL ROTATION GROUP - MOTION EQUATIONS
NASA-CR-53568 N64-18448 10-23

MATHEMATICAL STUDY OF PURSUIT TRACKING OF TARGET IN N-DIMENSIONAL EUCLIDEAN SPACE
NASA-CR-53837 N64-19587 12-20

CAPACITIES AND POTENTIAL THEORY IN LOCALLY EUCLIDEAN SPACES
AROD-1517-67 N64-31653 23-20

EULER EQUATION
EULER MOMENTUM EQUATION OF YAWING MOTION OF SPINNING SHELL IN FREE FLIGHT HAVING LIQUID-FILLED CYLINDRICAL CAVITY
BRL-1233 N64-18774 11-11

EULER-LAMBERT EQUATION
SA HOHMANN ORBITAL TRANSFER
CF ELLIPTICAL ORBIT
CF RENDEZVOUS
CF TRANSFER ORBIT
SOLUTION TO EULER-LAMBERT EQUATION FOR FLIGHT ORBITS CLOSE TO HOHMANN ORBITS N64-21628 15-29

RAPIDLY CONVERGING EXPANSION OF EULER-LAMBERT EQUATION FOR FLIGHT ORBITS
NASA-TT-F-8561 N64-24907 17-32

EUROPE
ATLANTIC OCEAN - WINTER HEAT SOURCE FOR EUROPE AND EFFECT ON SECONDARY MAGNETIC FIELD
JPRS-19896 N64-10660 01-12

MISSILE FIRING RANGE IN EUROPE N64-22871 16-10

AGREEMENT FOR ESRO I AND ESRO II SATELLITES BETWEEN NASA AND EUROPEAN SPACE RESEARCH ORGANIZATION /ESRO/ N64-25292 17-32

CLIMATOLOGICAL DENSITY DATA FOR STATIONS IN ASIA AND EUROPE
NWL-1909 N64-26574 18-21

EURATOM ACTIVITIES N64-32876 24-17

EURATOM ACTIVITIES - DOCUMENTATION
N64-32898 24-10

PASSIVE SATELLITE FOR EUROPEAN TELEVISION
NASA-TT-F-9138 N64-33403 24-32

EUROPEAN SPACE PROGRAM
EUROPEAN SPACE PROGRAM - EUROSPACE REPORT
JPRS-21879 N64-10209 01-01

EUROPIUM
ELECTRON NUCLEAR DOUBLE RESONANCE METHOD FOR DETERMINING INTERACTION OF EUROPIUM ION IN CALCIUM FLUORIDE WITH FLUORINE NUCLEI
AFCRL-63-502 N64-11935 03-23

LUMINESCENT INTENSITY OF SAMARIUM AND EUROPIUM COMPOUNDS WITH BENZOYLACETONE, DIBENZOYLMETHANE, AND ACETYLACETONE
STL-TRANS-74 N64-12015 03-23

PHOTOLUMINESCENCE OF BENZOYLACETONATES OF EUROPIUM AND SAMARIUM
STL-9990-6399-KU-000 N64-12088 03-23

ORGANOMETALLIC COMPOUNDS FOR PREPARATION OF HIGH PURITY CHROMIUM AND EUROPIUM
AFCRL-63-537 N64-13125 03-07

DOSIMETRIC STUDY OF THERMAL LUMINESCENCE OF LITHIUM FLUORIDE DOPED WITH EUROPIUM AND MAGNESIUM
UCRL-7811 N64-25362 17-23

PHYSICAL PROPERTIES AND MAGNETIC SUSCEPTIBILITIES OF TANTALUM COMPOUNDS /ORTHOTANTALATES/ OF LANTHANUM, SAMARIUM, AND EUROPIUM
FTD-TT-64-321/1&4 N64-25471 17-17

ENERGY TRANSFER BETWEEN RARE EARTH IONS IN TERBIUM-EUROPIUM TUNGSTATES N64-27991 20-25

RADIOCHEMICAL PURIFICATION OF EUROPIUM AND ITS NUCLEAR PROPERTIES
LAMS-3104 N64-28019 20-07

ABSORPTION AND FLUORESCENCE SPECTRA OF EUROPIUM IN SINGLE CRYSTAL YTTRIUM OXIDE
SSD-TDR-64-113 N64-28537 20-25

EUROPIUM BENZOYLACETONATE LASER PROCESSES
TR-63-052.2 N64-31142 22-25

EUTECTIC ALLOY
UNIDIRECTIONALLY SOLIDIFIED BINARY EUTECTIC ALLOYS - SOLIDIFICATION AND TESTING PROCEDURES, MECHANICAL PROPERTIES AND FRACTURE MECHANISMS
B-910068-4 N64-13125 04-18

SUPERCONDUCTING NIOBIUM-THORIUM AND NIOBIUM-TITANIUM EUTECTIC ALLOYS
NASA-CR-54103 N64-29709 21-18

EVACUATION
PENETRATION OF PLASMA FROM SOURCE WITH ELECTRON OSCILLATIONS TO EVACUATED REGION WITH MAGNETIC FIELD
FTD-TT-64-400/1&2&4 N64-21979 15-24

EVAPORATION
SA BOILING
SA TRANSPIRATION
SA VAPORIZATION
KINETICS OF DRYING PROCESSES WHICH INVOLVE LOWERING EVAPORATION SURFACE OF LUMPY, MOIST MATERIALS N64-11979 03-13

ACCOMMODATION COEFFICIENTS AND EVAPORATION OF SOLIDS, SUCH AS ICE, PHENOL, BENZENE AND CAMPHOR
RSIC-13 N64-12264 03-25

CALCULATED CASCADE AND EVAPORATION REACTIONS FOR HIGH-ENERGY NUCLEONS INCIDENT ON COMPLEX NUCLEI N64-12540 04-23

OSCILLATORY INSTABILITIES OF EVAPORATION IN TWO PARALLEL HEATED CHANNELS
AERE-M-1105 N64-15391 07-11

PRESSURE DURING EVAPORATION OF SUBSTANCE IN BEAM OF RADIATION
FTD-MT-63-35/1&2 N64-18750 11-25

EVAPORATION AND SENSIBLE HEAT FLUX OVER ARCTIC OCEAN - ENERGY TRANSFER FROM SURFACE TO ATMOSPHERE
AFCRL-64-272 N64-20164 13-21

EVAPORATION CHARACTERISTICS FOR CADMIUM SELENIDE - HOT ELECTRON EMITTER
AFCRL-64-390 N64-22686 15-25

TEMPERATURE AND RAREFACTION EFFECTS ON EVAPORATION DURING CASTING OF CERAMICS AND PROPERTIES OF CAST CERAMICS N64-23193 16-19

THIN FILM COMPOUNDS FORMED FROM SIMULTANEOUSLY EVAPORATED CONSTITUENTS - LEAD TITANATE
TR-64-206.3 N64-25781 17-19

APPARATUS FOR EVAPORATING COMPOUND SEMICONDUCTORS
NAVWEPS-8190 N64-26012 18-09

EVAPORATION, COMBUSTION, AND GAS DYNAMICS IN DISPERSION SYSTEMS
FTD-TT-63-944/1 N64-26213 18-07

IMPURITY DOPING OF FLASH EVAPORATED EPITAXIAL FILMS OF SEMICONDUCTORS
A049-AFCRL N64-26225 18-25

DROPLET EVAPORATION AND COMBUSTION IN HYPERSONIC STREAM N64-26480 18-11

HEAT AND MASS TRANSFER IN EVAPORATION OF LIQUID IN FORCED GAS STREAM
AID-T-64-29 N64-28639 20-13

EVAPORATIVE MASS LOSS FROM IONIZED HYDROGEN GAS AND APPLICATION TO SOLAR CORONA
AFCRL-64-617 N64-29440 21-05

MEASUREMENT OF PHYSIOLOGIC EVAPORATIVE WATER LOSS
CARI-63-25 N64-29846 21-16

GRADIENT LAYER ANIMAL CALORIMETER FOR MONITORING RADIANT AND EVAPORATIVE COMPONENTS OF HEAT LOSS
SAM-TDR-64-53 N64-32574 23-15

LIQUID FILM EVAPORATION DURING NUCLEATE BOILING
NASA-TN-D-1997 N64-33079 24-13

EVAPORATION COOLING
HAZARDS OF SATELLITE REENTRY DUE TO AERODYNAMIC HEATING - PROTECTIVE COATINGS & COOLING METHODS
FTD-TT-63-55/1&2 N64-19743 12-30

FREE FLIGHT TESTS OF SUBLIMING ABLATORS AND TRANSPIRATION COOLING AS THERMAL PROTECTION AT HYPERSONIC SPEEDS N64-20295 13-13

DIRECT CONTACT HEAT EXCHANGERS FOR EVAPORATORS AND CONDENSERS IN REFRIGERATING EQUIPMENT
RSIC-162 N64-20323 13-13

EVAPORATIVE COOLING SHROUD FOR SOUNDING ROCKET NOSE CONE
BRL-1547 N64-21023 14-13

EVAPORATIVE COOLING AND FREEZING OF LIQUIDS IN VACUUM
NASA-RP-249 N64-26589 18-13

EVAPORATION RATE
EVAPORATION RATES OF ORGANIC LIQUID AND SOLID LUBRICANTS IN VACUUM
NASA-TN-D-2081 N64-11992 03-19

VAPOR PRESSURE AND EVAPORATION RATE OF VARIOUS SUBSTANCES IN AIR AND DETERMINATION OF SAFETY HAZARDS OF TOXIC SUBSTANCES
FTD-TT-63-1044/1&2 N64-12626 04-23

EVAPORATION RATE OF LIQUID DROP IN STATIONARY HIGH TEMPERATURE MEDIUM
FTD-TT-63-520/1&2&4 N64-16374 08-13

HISTORIES OF PROPELLANT DROPLET TEMPERATURE, EVAPORATION RATE, AND TRAJECTORY UNDER HIGH PRESSURE AND HIGH TEMPERATURE
NASA-RP-138 N64-16688 08-23

VAPOR PRESSURE & EVAPORATION COEFFICIENTS OF STANNIC, ZINC, & BERYLLIUM OXIDE
UCRL-7521 N64-29891 21-07

EVAPORATIVE COOLING
EVAPORATIVE COOLING SHROUD FOR SOUNDING ROCKET NOSE CONE
BRL-1547 N64-21023 14-13

EVAPORATIVE COOLING AND FREEZING OF LIQUIDS IN VACUUM
NASA-RP-249 N64-26589 18-13

EVOLUTION
SA STELLAR EVOLUTION
COMPUTER PROGRAM MODELING OF NATURAL SELECTION - SIMULATION OF EVOLUTION PROCESSES N64-11033 02-20

EVOLUTION OF WEAKLY UNSTABLE SPATIALLY UNIFORM CLASSICAL PLASMA
MATT-179 N64-17467 09-24

STELLAR AND GALACTIC EVOLUTION - GALACTIC ROTATION AND GRAVITY - MAGNETIC FIELDS N64-19344 12-05

SIMILARITY OF ORGANIC COMPOUNDS IN CARBONACEOUS METEORITES TO THOSE IN MARINE SEDIMENTS - EVOLUTION OF LIFE N64-19584 12-16

CHEMICAL EVOLUTION AND ORIGIN OF LIFE
NASA-RP-233 N64-25970 18-16

HUMAN BEHAVIOR - EVOLUTION OF PERCEPTUAL REFERENCE SYSTEMS
AD-600319 N64-27094 19-14

ORIGINS OF AMINO ACIDS AND PROTEINS - MOLECULAR EVOLUTION N64-27797 19-16

NUMERICAL OPTIMIZATION BASED ON NATURAL EVOLUTION PROCESSES APPLIED TO LINEAR PROGRAMMING PROBLEMS
AD-602903 N64-29764 21-20

RELATIVISTIC THEORY FOR DISCRETIZATION IN GALACTIC STRUCTURE & COSMOLOGY
RM-3990-RC N64-30039 21-29

AGE AND EVOLUTION OF METEORITIC AND TERRESTRIAL

MATTER - APPLICATION OF RADIOCHEMICAL METHODS AND ISOTOPIC ANALYSIS FOR AGE DETERMINATIONS
FTD-MT-64-282 N64-30811 22-29

ABSTRACTS ON INVERTEBRATE AND VERTEBRATE BEHAVIOR, PHYSIOLOGY, ENDOCRINOLOGY, GENETICS, EMBRYOLOGY, EVOLUTION, AND CELL BIOLOGY
NASA-CR-59307 N64-33513 24-16

ZOOLOGY CONFERENCE - ENDOCRINE SYSTEMS, ADAPTATION OF MAMMALS, CHEMORECEPTION, NUCLEO-CYTOPLASMIC RELATIONS, FUNCTIONAL MORPHOLOGY, AND EVOLUTION
NASA-CR-59305 N64-33514 24-16

EVOLUTION OF O STARS - HYDROGEN EXHAUSTION AND GRAVITATIONAL CONTRACTION
NASA-RP-352 N64-33989 24-29

EXCHANGE
S CHARGE EXCHANGE
S ENERGY EXCHANGE
S GAS EXCHANGE

EXCHANGER
S HEAT EXCHANGER

EXCITATION
SA IONIZATION
CF ENERGY LEVEL
BIOLOGICAL CELL SUBSTANCE CHANGES FROM INJURY AND EXCITATION - STAINABILITY
JPRS-21894 N64-10517 01-16

COLLECTIVE EXCITATION OF UNLIKE PAIR STATES IN HEAVIER NUCLEI
NUP-63-16 N64-12971 04-23

VIBRATION TESTING OF LINEAR AND NONLINEAR STRUCTURES AND INTERNAL DAMPING BY HARMONIC EXCITATION N64-13557 04-33

RADIATION FIELD EFFECT ON EXCITED STATES OF SINGLE AND DOUBLE ATOMS OF MERCURY
E-T-F-63-1 N64-13862 05-29

VIBRATION STUDY OF HEATED STRUCTURE BY TRANSIENT EXCITATION AND WAVE ANALYSIS
NAEC-ASL-1068 N64-15568 07-33

STEADY-STATE REGIMES OF SYNCHRONOUS GENERATOR WITH SELF-EXCITATION
FTD-TT-62-1043/1&2&4 N64-16057 07-09

GAS FLOW NEAR STAGNATION POINT OF BLUNT BODY WITH FINITE RATE OF EXCITATION OF VIBRATIONAL DEGREES OF FREEDOM
FTD-TT-62-1313/1&2&4 N64-16477 08-02

EXCITATION MECHANISM IN DI- AND TRIATOMIC RADICALS AND IONS - COMETARY PHYSICS
AFCRL-64-227 N64-16492 08-05

DYNAMIC RESPONSE OF SOLID, VISCOELASTIC SPHERE TO TRANSLATIONAL AND ROTATIONAL HARMONIC EXCITATION
EM13-6 N64-18113 10-33

REACTION OF ELECTRONICALLY EXCITED OXYGEN WITH CARBON MONOXIDE TO PRODUCE OZONE AND CARBON DIOXIDE
NASA-CR-56036 N64-20602 13-07

ROTATIONAL EXCITATION OF MOLECULAR IONS BY ELECTRONS
R64SD31 N64-21149 14-23

EXCITATION RESONANCE IN HELIUM ION-ATOM COLLISIONS N64-22367 15-24

ATOMIC COLLISION PROCESSES IN GAS MIXTURES DURING AND AFTER EXCITATION BY MICROWAVE DISCHARGES
AROD-3511-1 N64-22514 15-12

PROBABILITY OF FAILURE OF SIMPLE STRUCTURES UNDER RANDOM EXCITATION
TR-1 N64-22901 16-33

EXCITABILITY OF HUMAN VESTIBULAR ANALYZER UNDER CONDITIONS OF SHORT TERM WEIGHTLESSNESS N64-23749 16-16

SELF-IGNITION FLAME AND DETONATION GASES
NASA-TT-F-125 N64-25875 18-26

ELECTRIC EXCITATION OF FLUORESCENCE IN MAGNESIUM OXIDE CRYSTALS DOPED WITH CHROMIUM IONS
ML-1036 N64-27233 19-23

ELECTROLUMINESCENT RESPONSE TO PULSE EXCITATION
USAELRDL-TR-2452 N64-27724 19-25

PRESSURE FIELD INDUCED IN ACOUSTIC FLUID BY HARMONIC EXCITATION OF SUBMERGED CYLINDRICAL SHELL OF FINITE LENGTH
TR-3 N64-27787 19-23

EXCITATION LEVEL OF PLASMA OSCILLATIONS
IPP/6/18 N64-28003 20-24

PARTICIPATION OF ANIONS IN FUNCTION OF EXCITABLE TISSUES N64-28040 20-14

DYNAMICS OF BOOST VEHICLES IN PRESENCE OF EXTERNAL EXCITATIONS
NASA-CR-58357 N64-28839 20-33

RESPONSE OF NONLINEAR BEAM TO RANDOM EXCITATION
AFOSR-64-0886 N64-28912 20-33

SUPPORT SYSTEMS AND EXCITATION TECHNIQUES FOR DYNAMIC MODELS OF SPACE VEHICLE STRUCTURES N64-29259 21-33

2S AND 2P ELECTRON IMPACT EXCITATION IN ATOMIC HYDROGEN
NASA-RP-305 N64-29341 21-23

SELF-EXCITATION CHARACTERISTICS OF MARK V MAGNETOHYDRODYNAMIC GENERATOR
AD-443597 N64-30472 22-24

POST-LUMINESCENCE OF HYDROGEN IMPURITY IN HELIUM OR NEON PLASMA EXCITED IN PULSES
NASA-TT-F-8959 N64-30852 22-24

AXISYMMETRIC EXCITATION OF CONE OF FINITE LENGTH - INTEGRAL EQUATION N64-31368 23-23

LUNAR LUMINESCENT EXCITATION BY SOLAR PROTONS - BOMBARDMENT OF STONY METEORITES N64-32077 23-28

SELF-EXCITATION OF MAGNETOHYDRODYNAMIC INDUCTION GENERATOR
DVL-319 N64-32348 23-24

EFFECTS OF ION BEAM EXCITATION ON CHARGE TRANSFER CROSS SECTION MEASUREMENTS N64-32526 23-11

HYDROXYL EMISSION WITH DIFFERENT VIBRATIONAL EXCITATION N64-32706 24-12

EXCITATION OF HELIUM EMISSION AT TWILIGHT RELATED TO ALTITUDE AND SOLAR DEPRESSION ANGLE N64-32712 24-12

CYCLOTRON FREQUENCY HYDROMAGNETIC WAVE EXCITATION
NASA-CR-59199 N64-33160 24-12

EXCITATION OF METASTABLE ATOMS AND MOLECULES BY ELECTRON IMPACT ON THERMAL MOLECULAR BEAM
AFCRL-64-698 N64-33267 24-12

ENERGY TRANSFER BETWEEN MOLECULES AND EXCITED ATOMS - QUENCHING OF EXCITED ARGON ATOMS FORMED BY BETA RADIATION FROM TRITIUM SOURCE AND LOW ENERGY ELECTRON IMPACT N64-33279 24-12

EXCITATION OF HYDROGEN ATOM BY ELECTRON COLLISION
NASA-TM-X-55082 N64-33634 24-24

ELECTROSTATIC POWER GENERATOR - VACUUM INSULATION AND EXCITATION TRANSFORMER
QTPR-3 N64-33886 24-08

EXCITED RADIATION FROM SEMICONDUCTOR ARSENIC-GALLIUM P-N JUNCTION N64-33996 24-25

EXCITED STATE
RADIATION FIELD EFFECT ON EXCITED STATES OF SINGLE AND DOUBLE ATOMS OF MERCURY
E-T-F-63-1 N64-13862 05-29

MOLECULAR ORBITAL STUDY OF EXCITED STATES OF HYDROGEN MOLECULE
NASA-CR-53081 N64-16752 08-23

HARTREE-FOCK SOLUTIONS TO ENERGIES OF EXCITED STATES USING HAMILTON PRINCIPLE
N64-16948 09-20

PERTURBATION THEORY IN STUDY OF TWO ELECTRON SYSTEM EXCITED STATES - QUANTUM MECHANICS
N64-17010 09-23

PHOTOEXCITED TRIPLET STATES OF POLYATOMIC MOLECULES BY ELECTRON PARAMAGNETIC RESONANCE AND PHOSPHORESCENCE METHODS
FTD-TT-64-183/1&2 N64-19771 12-25

DEOXYRIBONUCLEIC ACID MOLECULAR STRUCTURE AND CONTINUOUS MODELS OF EXCITABLE MEDIA
JPRS-24256 N64-19782 12-01

MATHEMATICAL MODEL OF CONTINUOUS CONTROL SYSTEM - MODEL OF EXCITABLE MEDIUM N64-19784 12-20

QUANTUM THEORY OF ENERGIES OF EXCITED STATE ATOMS & MOLECULES IN UPPER & STELLAR ATMOSPHERES AND MATERIALS UNDER COMBUSTION
NASA-CR-53704 N64-20003 13-23

PROPOSED STUDY OF COLLISION PROCESSES LEADING TO ELECTRONIC EXCITATION AND IONIZATION BEHIND SHOCK WAVES
NOLTR-63-33 N64-21089 14-23

EVALUATION OF 3X3 CROSS SECTION MATRIX INVOLVED IN ELECTRON IMPACT EXCITATION OF GROUND STATE HYDROGEN ATOM TO 2S AND 2P LEVELS
NASA-TN-D-2145 N64-21266 14-23

DIFFRACTION OF FIELD OF RADIATING SURFACE ANTENNA EXCITED BY ELEMENTARY ELECTRIC DIPOLE BY SOLIDS OF REVOLUTION N64-23792 16-08

NOISY ELECTRON BEAM OF EXCITED RESONATOR
N64-23796 16-08

CONCENTRATION OF EXCITED OXYGEN FORMED IN FLASH PHOTOLYSIS OF NITROGEN DIOXIDE N64-24145 16-19

TRANSITION SPECTRUM OF CORONAL ISOELECTRON SEQUENCE CONFIGURATION IN EXCITED STATE
NASA-TT-F-8937 N64-26789 18-05

SELF CONSISTENT FIELD CALCULATIONS OF GROUND, IONIZED, AND EXCITED STATES OF NITROGEN AND OXYGEN
NASA-CR-58343 N64-28990 20-23

ENERGY MINIMUM PRINCIPLE FOR HARTREE-FOCK CALCULATIONS OF CERTAIN EXCITED ATOMIC STATES
RR-TR-64-9 N64-29347 21-23

CHEMICAL ACTIVATION - ACTIVATED MOLECULES IN ELECTRONIC LEVELS OF EXCITED AND GROUND STATES
TR-1 N64-29545 21-07

SHELL ENERGY LEVELS FOR NITROGEN 15 AND OXYGEN 15
NOLTR-64-46 N64-29584 21-23

EFFECTIVE RADIUS OF CESIUM IN GROUND STATE AND EXCITED STATE
NASA-TM-X-52057 N64-30048 21-23

STABILITY AND Q-FACTOR OF QUARTZ CRYSTALS EXCITED BY PARALLEL FIELD TECHNIQUE
AD-602722 N64-30189 21-25

SPECTROPHOTOMETRIC DETECTION OF METASTABLE HELIUM ATOMS EXCITED BY ULTRAVIOLET RADIATION
RPL-TDR-64-96 N64-31076 22-23

EXCITON
S ENERGY BAND

EXCRETION
SA URINE
EXCRETION RATE OF BROMINE-82, RUBIDIUM-86, AND IODINE-131 FROM RATS N64-12436 04-16

EXCRETION RATE OF SODIUM-24 FROM SODIUM CHLORIDE AND CAFFEINE AS FUNCTION OF RATS NERVOUS SYSTEM
N64-12437 04-16

MATHEMATICAL ANALYSIS OF EXCRETION CURVES FOR RADIOACTIVE ISOTOPES OF COBALT, SODIUM, CERIUM, BROMINE, AND RUBIDIUM N64-12438 04-16

EXAMINATION OF GROUND SQUIRREL EXCRETION FOR ANIMAL & BACTERIAL VIRUSES
TN-62-12 N64-13980 05-16

ISOLATION OF FECAL BACTERIA AND ESTABLISHMENT OF TYPE CULTURES OF ANAEROBIC ORGANISMS
NASA-CR-55561 N64-15550 07-16

TIME AND DOSE DEPENDENCY OF NITROGEN COMPOUND EXCRETION FROM ISOLATED FROG LIVER AFTER WHOLE-BODY IRRADIATION
NIJS-R-422 N64-21048 14-14

NITROGEN COMPOUNDS EXCRETED BY ISOLATED LIVER OF NONIRRADIATED AND IRRADIATED FROGS
NIJS-R-421 N64-21056 14-16

EFFECTS OF HIGH CONCENTRATION OF CARBON DIOXIDE AND OF LIQUID DIET ON URINE EXCRETION OF STEROIDS AND CATECHOLAMINES
SAM-TDR-63-63 N64-21094 14-16

TOXIC GASEOUS PRODUCTS EXCRETED BY HUMANS ENCLOSED IN AIRTIGHT CHAMBER N64-23755 16-16

EXCRETION OF LIPIDS & LIPIDIC SUBSTANCES IN HUMAN SWEAT
REPT.-280 N64-23896 16-16

CHANGES IN HUMAN 17-KETOSTEROID URINE EXCRETION
N64-33452 24-16

EXHAUST
EFFECT OF EXHAUST NOZZLE RECOMBINATION ON HYPERSONIC RAMJET PERFORMANCE N64-10155 01-02

EXHAUST NOZZLE RECOMBINATION OF HYDROGEN FUEL IN SUBSONIC RAMJET ENGINES AT HYPERSONIC SPEEDS
NASA-RP-56 N64-10291 01-02

NONEQUILIBRIUM FLOW PROCESSES IN HIGH-EXPANSION-RATIO ROCKET EXHAUST NOZZLES AND PREDICTION OF NOZZLE PERFORMANCE
NASA-CR-52921 N64-11743 03-02

ROCKET ENGINE EXHAUST PRODUCTS FROM HIGH ENERGY SOLID, LIQUID, & HYBRID PROPELLANT SYSTEMS
QR-7414-9 N64-14627 06-27

TURBULENT JET FLOWS OF EXHAUSTING CIRCULAR JET IN EDDY
AGARD-450 N64-18720 11-11

MILLIMETER WAVE TECHNIQUES FOR EVALUATION OF GUIDANCE DATA SIGNAL ATTENUATION BY EXHAUST PLUMES
RE-TR-63-31 N64-18786 11-08

GRAPHS AND TABLES FOR DETERMINATION OF TURNING ANGLES AND BOUNDARY SHAPES OF JET EXHAUSTS
AEDC-TDR-64-73 N64-18794 11-02

EXHAUST NOZZLE TESTING USING COLD AIR FLOW TO FIND EFFECT OF EXIT DESIGN ON THRUST & JET WAKE DYNAMIC PRESSURE FOR USE IN VTOL DOWNWASH SUPPRESSION
NASA-TN-D-2263 N64-18958 11-02

JET EXHAUST SIMULATION IN GROUND TEST FACILITIES
AGARDOGRAPH-79 N64-22224 15-10

EFFECT OF EXHAUST NOZZLE RECOMBINATION ON HYPERSONIC RAMJET PERFORMANCE
AIAA PAPER-63-118 N64-23271 16-11

JET EXHAUST FLOW FIELDS AND IMPINGEMENT ON SIMULATED LUNAR SURFACE
NASA-RP-242 N64-26404 18-29

KINETICS OF ROCKET EXHAUST GASES - FLAME IMAGE AND FLAME TEMPERATURE DETERMINATION
REPT.-103-9 N64-29675 21-26

PHYSICAL AND THERMODYNAMIC PROPERTIES OF ROCKET EXHAUST PRODUCTS
QR-7414-11 N64-30140 21-07

COMPARATIVE CORROSION RESISTANCE OF CHROMIUM AND NICKEL BASE TURBINE-BLADE ALLOYS TO EXHAUST GASES CONTAINING SULFUR, VANADIUM, AND SODIUM
ARL/ME-247 N64-30250 22-18

EXHAUST NOZZLE NOISE STUDIES FOR PROPULSION SYSTEM OF SUPERSONIC TRANSPORT
QPR-4 N64-32465 23-27

EXO-ELECTRON EMISSION
EXO-ELECTRON EMISSION FROM FATIGUING ALUMINUM
NASA-CR-52683 N64-11228 02-18

EFFECT OF CALCIUM SULFATE AND METALLIC ACTIVATORS ON EXOELECTRONIC EMISSION OF PHOSPHORS
N64-24567 17-23

EXOSPHERE
MEASUREMENT OF ION CONCENTRATION AND TOTAL ION DENSITY IN EXOSPHERE USING MASS SPECTROMETER AND ELECTROSTATIC PROBE
NASA-RP-63 N64-10357 01-12

EXOSPHERIC DRAG OF MARS AS CAUSE OF ORBITAL ACCELERATIONS OF SATELLITE
RM-3939-PR N64-14012 05-29

COUPLING BETWEEN SOLAR WIND AND EXOSPHERE
NASA-CR-55683 N64-15531 07-28

SPECTRUM OF HYDROMAGNETIC WAVES IN EXOSPHERE DUE TO MAGNETIC STORMS
NASA-TR-R-143 N64-16006 07-12

ION AND ELECTRON DISTRIBUTION IN EXOSPHERE
NASA-CR-53689 N64-20008 13-12

METHOD FOR COMPUTING EXOSPHERIC TEMPERATURES AS FUNCTION OF GEOGRAPHIC, SOLAR, & GEOMAGNETIC PARAMETERS
NASA-CR-56102 N64-20689 13-21

DENSITY DISTRIBUTION IN ION-EXOSPHERE OF NONROTATING PLANET
NASA-CR-56233 N64-23990 16-28

DIURNAL VARIATION OF HYDROGEN CONCENTRATION IN EXOSPHERE
N64-26297 18-12

DYNAMIC DIFFUSION PROCESSES IN EXOSPHERE
N64-28945 20-12

COMPUTER PROGRAM FOR PREDICTION OF VERTICAL DENSITY DISTRIBUTION IN IONOSPHERE AND EXOSPHERE
NASA-TM-X-53062 N64-29728 21-29

EXPANDABLE STRUCTURE
STRUCTURAL ANALYSIS OF EXPANDABLE STRUCTURES WITH POTENTIAL SPACE APPLICATIONS
NASA-CR-52077 N64-10093 01-34

PRESSURE & HEAT TRANSFER DATA FOR HYPERSONIC FLOWS OVER EXPANSION CORNERS AND AHEAD OF RAMPS
ASD-TDR-63-679, PT. 1 N64-12228 03-13

METALLIC AND NONMETALLIC EXPANDABLE ROCKET NOZZLES
REPT.-8290-4S N64-22238 15-27

CONFERENCE - AEROSPACE EXPANDABLE STRUCTURES
AD-432006 N64-23701 16-01

EXPANDABLE SPACECRAFT DESIGN, MISSION REQUIREMENTS, AND BOOSTER CAPABILITIES
N64-23702 16-31

AIRMAT STRUCTURES FOR SPACE AND LIMITED WAR APPLICATION
N64-23703 16-31

FLEXIBLE FIBROUS MATERIALS AND COATINGS FOR EXPANDABLE REENTRY SYSTEMS
N64-23704 16-18

METAL FABRIC EXPANDABLE STRUCTURE FOR AEROSPACE APPLICATION
N64-23705 16-18

LIMITED APPLICATIONS FOR EXPANDABLE STRUCTURES
N64-23706 16-01

EXPANDABLE SELF-RIGIDIZING HONEYCOMB STRUCTURES
N64-23708 16-33

STIFFENING EXPANDABLE STRUCTURE VIA GAS CATALYSIS
N64-23711 16-19

EXPANDABLE LUNAR SHELTER CONCEPTS
N64-23712 16-31

NASA RESEARCH ON EXPANDABLE STRUCTURES
N64-23713 16-33

INFLATABLE MATERIAL OR EXPANDABLE STRUCTURES FOR SPACECRAFT DESIGN WITH EMPHASIS ON MANNED SPACE STATIONS
N64-23714 16-31

EXPANDABLE STRUCTURES
N64-23716 16-06

EXPANDED ALUMINUM MESH FOR INFLATABLE RIGID REFLECTING DEVICE
N64-23718 16-09

EXPANDABLE FOAM-IN-PLACE SHELTERS
N64-23719 16-10

MECHANICAL PROPERTIES OF COMPOSITE MATERIALS FOR EXPANDABLE SPACE STRUCTURES
N64-23723 16-19

EXPANDABLE DRAG DEVICES FOR MACH 10 REGIME
N64-23724 16-30

ELASTIC RECOVERY CONCEPT FOR EXPANDABLE SPACE STRUCTURES
N64-23725 16-30

EXPANDABLE STRUCTURE TECHNOLOGY APPLIED TO SEALING CONCEPTS AND SELF-REGULATING PNEUMATIC SYSTEMS
N64-23727 16-34

FUTURE RECOMMENDATIONS FOR EXPANDABLE STRUCTURES FOR SPACE APPLICATION
N64-23731 16-30

MEMORY EFFECT OF POLYURETHANE FOR SPACE EXPANDABLE STRUCTURE APPLICATION
N64-23733 16-19

EXPANDABLE STRUCTURES FOR AEROSPACE APPLICATIONS
SM-42809 N64-33640 24-34

ELEMENTARY MECHANICS OF FLEXIBLE MEMBRANES OF EXPANDABLE INFLATABLE STRUCTURES
SM-45750 N64-33733 24-33

EXPANSION
SA THERMAL EXPANSION
HELIUM ATOM WAVE FUNCTION EXPANSIONS IN LEGENDRE FUNCTIONS
NASA-CR-52696 N64-11231 02-23

GENERAL EXPRESSION FOR EXPANSION COEFFICIENTS CONNECTING STARK AND FIELD-FREE WAVE FUNCTIONS FOR HYDROGEN
UCRL-7493 N64-11581 03-23

NONEQUILIBRIUM EXPANSION OF ALKALI-METAL PLASMAS PASSED THROUGH THERMIONIC DIODE
NASA-TN-D-2086 N64-11791 03-24

EXPANSION STUDY OF BERYLLIUM OXIDE DUE TO IRRADIATION
N64-16998 09-23

PRESSURE AND TEMPERATURE MEASUREMENT FOR SUDDEN EXPANSION OF PLANE OR AXISYMMETRIC, SONIC OR SUPERSONIC FLOW
N64-17185 09-11

EXPANSION METHOD OF COMPUTATION OF TRANSITION PROBABILITIES
NASA-CR-53747 N64-19172 11-23

ISENTROPIC FLOW PROCESSES INVOLVING UNSTEADY EXPANSION WAVE IN EQUILIBRIUM REAL AIR
NASA-TR-R-167 N64-20286 13-11

NATURAL SPIN ORBITALS AND EXPANSION COEFFICIENTS FOR MANY-BODY WAVE FUNCTIONS
AD-600166 N64-20844 14-23

COEFFICIENTS OF EXPANSION OF EARTH GRAVITATIONAL POTENTIAL IN SPHERICAL HARMONICS
SSD-TDR-63-167 N64-22325 15-12

PORTABLE TRANSISTORIZED WHEATSTONE BRIDGE FOR MEASUREMENT OF EXPANSION
FTD-TT-64-545 N64-24327 17-09

PLANE WAVE EXPANSION THEOREM FOR CYLINDRICALLY RADIATED FIELDS
EM-199 N64-25757 17-23

EXPANSION METHOD FOR CALCULATION OF EXPECTATION VALUES OF OPERATORS FOR LOWEST 2S AND 2PO STATES OF MEMBERS OF LITHIUM SEQUENCE
NASA-CR-57010 N64-27381 19-23

TABLES FOR ISENTROPIC EXPANSION OF IDEAL GASES WITH CONSTANT SPECIFIC HEAT RATIO OF 1.400
RPE-TN-304 N64-27682 19-11

DETERMINING SPECTRAL LINE STRENGTH BY EXPANSION CALCULATION METHOD
TR-412 N64-31734 23-23

PRESSURE AND HEAT TRANSFER MEASUREMENTS FOR HYPERSONIC FLOW OVER EXPANSION CORNERS AND AHEAD OF RAMPS
ASD-TDR-63-679, PT. IV N64-33529 24-02

EXPANSION THEORY FOR SOLVING LINEAR INITIAL VALUE PROBLEMS IN PARTIAL DIFFERENTIAL EQUATIONS
NASA-CR-59322 N64-33685 24-20

EXPERIMENT DESIGN
TECHNIQUES FOR INPILE CAPSULE TRANSIENT HEATING EXPERIMENTS IN ORGANIC REACTORS
NAA-SR-9009 N64-14925 06-23

SEQUENTIAL DESIGN OF EXPERIMENTS WITH TWO RANDOM VARIABLES
CU-7-62-AF-1113-ERL N64-15953 07-20

OPERATIONS RESEARCH FOR OPTIMIZATION OF EXPERIMENT DESIGN
CIT-ORD-16-TR-10 N64-16890 08-20

MICROMETEOROID PENETRATION EXPERIMENTS AS SINGLE-SAMPLING LIFE-TEST SAMPLING PLANS
NASA-TN-D-1989 N64-17153 09-23

STATISTICS - EXPERIMENTAL DESIGN FOR FUEL CELL RESEARCH N64-17398 09-06

BIBLIOGRAPHY OF EXPERIMENT DESIGN RESEARCH
NRC-405 N64-17921 10-16

INVERSE ESTIMATION TECHNIQUE FOR PROBLEMS IN EXPERIMENTAL DESIGN N64-20960 14-22

EXPERIMENT DESIGN IN RESEARCH, DEVELOPMENT, AND TESTING
AROD-63-2 N64-21581 15-01

SPACE BIOLOGY AND MEDICINE - FIRST EXPERIMENTS N64-21867 15-16

BIOLOGICAL RESEARCH IN SPACE FLIGHT N64-23746 16-16

VACUUM ULTRAVIOLET SPECTRA OF MOLECULES, GEOPHYSICAL AND ASTROPHYSICAL PROCESSES, AND SPACE EXPERIMENT INVESTIGATIONS
AFCRL-64-393 N64-24175 16-29

MARTIAN ATMOSPHERE PROFILE FROM MOTION OF VEHICLE LAUNCHED FROM ENTRY FLYBY BUS N64-31091 22-32

PRINCIPLE OF INCLUSION AND EXCLUSION - ORDER STATISTICS AND DESIGN OF EXPERIMENTS
AROD-2763-16 N64-32249 23-23

SHAKE TABLE EXPERIMENTS ON HORIZONTAL AND VERTICAL SEISMOMETERS
QSR-3 N64-32950 24-15

EXPERIMENTAL BREEDER REACTOR I /EBR-I/
MONITORING OF FISSION PRODUCTS IN EXPERIMENTAL BREEDER REACTOR-1 IN EVENT OF FUEL ELEMENT CLADDING FAILURE
ANL-6788 N64-17779 09-23

EXPERIMENTAL BREEDER REACTOR II /EBR-II/
TIME-OPTIMUM AUTOMATIC CONTROLLER FOR EXPERIMENTAL BREEDER REACTOR-II, ON-OFF TYPE
ANL-6695 N64-14430 06-23

EXPERIMENTAL GAS COOLED REACTOR /EGCR/
OUTGASSING BEHAVIOR OF EXPERIMENTAL GAS COOLED REACTOR GRAPHITE MODERATOR
ORNL-3560 N64-15851 07-23

DESIGN, PERFORMANCE ANALYSIS, AND COMPONENT AND MATERIAL TESTING FOR EXPERIMENTAL GAS COOLED REACTOR /EGCR/
ORNL-3619 N64-26303 18-23

EXPIRED AIR
S ALVEOLAR AIR

EXPLODING CONDUCTOR
INITIAL HEATING RATE & ENERGY INPUT FOR EXPLODING WIRES
BRL-MEMO-1506 N64-12169 03-23

FIRING UNIT FOR INSENSITIVE EXPLOSIVES, INCLUDING FUZE RESPONDING TO CODE SIGNAL AND BRIDGEWIRE EXPLODING CONDUCTOR
ABL/X-103 N64-12669 04-06

ELECTRICALLY EXPLODED WIRES IN VACUUM
NRL-6009 N64-14648 06-23

ANNOTATED BIBLIOGRAPHY OF EXPLODING WIRES, FILMS, AND RIBBONS
AID-B-63-78 N64-15525 07-23

EFFECT OF EXPLODING BRIDGEWIRE LENGTH AND CIRCUIT INDUCTANCE ON EXPLOSION OF PENTAERYTHRYTOL TETRANITRATE /PETN/
NOLTR-63-159 N64-18257 10-26

ARC SPOT AS STEADY STATE EXPLODING WIRE PHENOMENON N64-21377 14-24

COMPARISON OF CALCULATION METHODS FOR RESISTANCE VARIATION OF EXPLODING WIRES
R64SD23 N64-21781 15-09

INORGANIC BINARY COMPOUND SYNTHESIS BY EXPLODING WIRE TECHNIQUE N64-24128 16-06

WIRE DIAMETER EFFECT ON INITIATION OF PENTAERYTHRYTOL TETRANITRATE /PETN/ BY EXPLODING PLATINUM WIRE
NOLTR-64-2 N64-25210 17-26

RESISTANCE CHANGES CAUSED BY VAPORIZATION WAVES IN EXPLODING WIRES
BRL-1241 N64-25595 17-23

COMPRESSION OF MAGNETIC FIELD BY EXPLODING FOILS
LGI-64/7 N64-26750 18-24

VERY HIGH ENERGY STORAGE SYSTEMS TO SUPPLY POWER TO EXPLODING WIRE LOAD N64-27104 19-06

EXPLOSION PRODUCT FROM CONICAL PLASMA GUN AND EXPLODING WIRES IN RAIL GUN SYMMETRIES
AD-441171 N64-27690 19-24

HYPERVELOCITY IMPACT ON STRUCTURAL MATERIAL USING EXPLODING CONDUCTOR CIRCUIT - MEASUREMENT OF MASS, VELOCITY, AND CRATERING OF PARTICLES
ML-TDR-64-161 N64-29427 21-33

ELECTROMOTIVE FORCE IN EXPLODING CONDUCTOR DUE TO SUDDEN FAST TEMPERATURE INCREASE
AD-602913 N64-30142 21-13

EXPLORATION
S LUNAR EXPLORATION
S SPACE EXPLORATION

EXPLORER I SATELLITE
OBSERVATIONS OF SATELLITES - EXPLORER I AND VII, VANGUARD I, II, AND III, AND TRANSIT 1B
NASA-CR-52454 N64-10141 01-32

EXPLORER IV SATELLITE
CALIBRATION OF PROTOTYPE EXPLORER IV SATELLITE USING GAMMA RAYS, X-RAYS AND ELECTRONS OVER AZIMUTHAL AND INCLINATION ANGLES
WT-1671 N64-21490 14-32

DIRECTIONAL SCINTILLATION COUNTER DATA FROM EXPLORER IV SATELLITE
NASA-TR-R-168 N64-27665 19-28

EXPLORER VI SATELLITE
ANALYSIS OF EXPLORER VI & PIONEER V DATA ON RADIATION BELTS & GEOMAGNETIC FIELD
NASA-CR-55104 N64-12159 03-32

EXPLORER VI AND PIONEER V DATA REDUCTION AND ANALYSIS
NASA-CR-55802 N64-17677 09-32

SATELLITE OBSERVATIONS OF GEOMAGNETIC FIELD DURING MAGNETIC STORMS - EXPLORER VI DATA
NASA-RP-295 N64-28355 20-29

EXPLORER VII SATELLITE
OBSERVATIONS OF SATELLITES - EXPLORER I AND VII, VANGUARD I, II, AND III, AND TRANSIT 1B
NASA-CR-52454 N64-10141 01-32

SOLAR PRODUCED HEAVY NUCLEI DETECTED BY EXPLORER VII N64-10167 01-28

DATA REDUCTION AND ANALYSIS FOR HEAVY PRIMARY COSMIC RAY EXPERIMENT IN EXPLORER VII SATELLITE
NASA-CR-58203 N64-30518 22-28

FLUX OBSERVATION OF HEAVY PRIMARY COSMIC RADIATION IN EXPLORER VII SATELLITE-BORNE INSTRUMENTATION N64-30519 22-15

MEASUREMENT OF ELECTRON DENSITY IN IONOSPHERE FROM OBSERVATION OF FARADAY EFFECT ON SIGNALS FROM COSMOS I, COSMOS II, AND EXPLORER SATELLITES
NASA-TT-F-8958 N64-30851 22-12

ABSOLUTE SOLAR COSMIC RAY INTENSITY RELATION WITH RIOMETER ABSORPTION BY EXPLORER VII SATELLITE
SUI-64-29 N64-30973 22-28

EXPLORER VIII SATELLITE
EXPLORER VIII SATELLITE MEASUREMENTS OF IONOSPHERE ION COMPOSITION, SPACECRAFT-PLASMA INTERACTIONS, & ELECTRON TEMPERATURES
NASA-TM-X-54573 N64-17602 09-12

SATELLITE OBSERVATIONS OF ECHO I, ECHO I ROCKET, EXPLORER VIII, AND EXPLORER IX
NASA-CR-59142 N64-33117 24-08

EXPLORER IX SATELLITE
SATELLITE OBSERVATIONS OF TRANSIT 1B, ECHO I, AND EXPLORER IX SATELLITES
NASA-CR-55089 N64-12100 03-32

VECTORIAL REFLECTANCE OF EXPLORER IX SATELLITE
NASA-TN-D-2388 N64-26270 18-23

COMPARISON OF GROUND TEST AND ORBITAL LAUNCH RESULTS FOR EXPLORER IX AND EXPLORER XIX SATELLITES
NASA-TN-D-2466 N64-28233 20-32

SATELLITE OBSERVATIONS OF ECHO I, ECHO I ROCKET, EXPLORER VIII, AND EXPLORER IX
NASA-CR-59142 N64-33117 24-08

EXPLORER X SATELLITE
PLASMA MEASUREMENTS MADE BY EXPLORER X SATELLITE N64-18477 10-12

PLASMA MEASUREMENTS MADE ABOARD EXPLORER X SATELLITE
NASA-CR-58670 N64-29562 21-24

EXPLORER XI SATELLITE
GRAPHIC DESCRIPTION OF GAMMA-RADIATION INTENSITY AS FUNCTION OF ANGLE OF EARTH CENTER FROM EXPLORER XI DATA
NASA-CR-53590 N64-18432 10-28

EXPLORER XII SATELLITE
MORPHOLOGY OF ELECTRON DISTRIBUTION IN OUTER RADIATION ZONE & NEAR MAGNETOSPHERIC BOUNDARY BY EXPLORER XII DATA
NASA-CR-52300 N64-10178 01-12

STRUCTURAL CHANGES IN OUTER RADIATION BELT CAUSED BY MAGNETIC STORMS - EXPLORER XII DATA N64-15700 07-28

EXPLORER XII OBSERVATIONS OF MAGNETIC SUDDEN IMPULSES IN EARTH MAGNETOSPHERE
NASA-CR-53231 N64-17574 09-12

OBSERVATIONS OF MAGNETOSPHERE IMPULSES FROM EXPLORER XII DATA
NASA-CR-53611 N64-18475 10-12

SOLAR PROTON ACTIVITY OBSERVED BY EXPLORER XII AND XIV SATELLITES
NASA-TM-X-55087 N64-33562 24-28

EXPLORER XII PROTON DETECTOR ANALYSIS OF MAGNETIC EFFECTS OF QUIET TIME PROTON BELT
NASA-TM-X-55078 N64-33627 24-28

EXPLORER XIII SATELLITE
METEOROID HAZARD TO THIN STAINLESS STEEL SKIN - EXPLORER XIII SATELLITE PENETRATION RATE DATA
NASA-TN-D-1986 N64-10182 01-29

EXPLORER XIV SATELLITE
DESCRIPTION OF EXPLORER XIV/DELTA VEHICLE COMPLEX FOR OBSERVATION OF COSMIC RADIATION, SOLAR WIND, & SOLAR PARTICLE FLUX N64-11198 02-29

EXPLORER XIV OUTER RADIATION ZONE CHARGED PARTICLE FLUX MEASUREMENT
NASA-CR-53169 N64-17579 09-12

EXPLORER XIV MAGNETIC FIELD MEASUREMENTS IN TAIL OF GEOMAGNETIC CAVITY
NASA-CR-53342 N64-17789 09-12

OBSERVATION OF CHARGED PARTICLES IN EARTHS OUTER RADIATION ZONE FROM EXPLORER XIV SATELLITE N64-25539 17-12

SOLAR PROTON ACTIVITY OBSERVED BY EXPLORER XII AND XIV SATELLITES
NASA-TM-X-55087 N64-33562 24-28

EXPLORER XV SATELLITE
EXPLORER XV SATELLITE OBSERVATIONS OF NATURAL AND ARTIFICIAL RADIATION BELTS N64-19225 11-12

EXPLORER XVI SATELLITE
RADIATION PROTECTION OF SOLAR CELLS IN EXPLORER XVI THROUGH IMPROVED QUARTZ WINDOWS
NASA-RP-115 N64-13170 04-06

MICROMETEOROID HAZARDS MEASURED BY EXPLORER XVI SATELLITE
NASA-TM-X-949 N64-16692 08-32

SATELLITE OBSERVATIONS WITH CINETHEODOLITE, OF MIDAS III, EXPLORER XVI, AND EXPLORER XVII SATELLITES N64-17273 09-08

EXPLORER XVI SATELLITE - METEOROID HAZARD TO THIN STAINLESS STEEL SKIN MATERIAL
NASA-TN-D-2445 N64-27204 19-32

EXPLORER XVII SATELLITE
PROGRAMMER ELECTRONICS FOR ATMOSPHERIC STRUCTURE SATELLITE - EXPLORER XVII
NASA-TM-X-50997 N64-10095 01-09

SILVER-ZINC BATTERIES AS THE POWER SUPPLY FOR EXPLORER XVII
NASA-TM-X-51150 N64-10905 02-06

RESPONSE OF MAGNETRON AND VACUUM GAUGES ABOARD EXPLORER XVII MEASURING TEMPERATURE, PRESSURE, AND DENSITY OF UPPER ATMOSPHERE
NASA-TN-D-2146 N64-15796 07-15

SATELLITE OBSERVATIONS WITH CINETHEODOLITE, OF MIDAS III, EXPLORER XVI, AND EXPLORER XVI SATELLITES N64-17273 09-08

EXPLORER XVII REAL TIME PCM TELEMETRY DATA PROCESSING AND DISPLAY TEST STAND
NASA-TN-D-2318 N64-23026 16-22

ATMOSPHERIC DENSITIES & TEMPERATURE FROM DRAG ANALYSIS OF EXPLORER XVII SATELLITE
NASA-CR-58032 N64-26592 18-12

EXPLORER XVIII SATELLITE
PULSE HEIGHT ANALYZER AND LOGIC CIRCUITS FOR INTERPLANETARY MONITORING PLATFORM NUCLEAR ABUNDANCE EXPERIMENT - EXPLORER XVIII
NASA-TM-X-51623 N64-19590 12-15

PLASMA MEASUREMENTS ON IMP-A
NASA-CR-56294 N64-22471 15-24

EXPLORER XIX SATELLITE
EXPLORER XIX SATELLITE - CONSTRUCTION, LAUNCHING ORBIT, AND MISSION TO MEASURE HIGH ALTITUDE UPPER ATMOSPHERIC DENSITY AND FLUCTUATIONS N64-27069 19-32

COMPARISON OF GROUND TEST AND ORBITAL LAUNCH RESULTS FOR EXPLORER IX AND EXPLORER XIX SATELLITES
NASA-TN-D-2466 N64-28233 20-32

EXPLORER SATELLITE
ORBITAL ELEMENTS FOR EXPLORER AND VANGUARD SATELLITES AND ECHO I SATELLITE
NASA-CR-55853 N64-16721 08-32

TORQUE-PRODUCING FORCES AFFECTING SATELLITE ORIENTATION - EXPLORER SATELLITE DATA
NASA-TR-R-183 N64-27362 19-33

INTERPLANETARY EXPLORATION USING EXPLORER SATELLITES
NASA FACTS, VOL. II, NO. I N64-28711 20-32

EPHEMERIS CONTAINING OBSERVATIONS OF EXPLORER, MIDAS III & IV, TRANSIT IIA, & OTHER SATELLITES N64-30871 22-08

DESCRIPTION AND SCIENTIFIC EXPERIMENTS OF IMP-B INTERPLANETARY EXPLORER SATELLITE N64-32635 23-32

BEACON EXPLORER SATELLITE FOR IONOSPHERIC STUDY AND EVALUATION OF LASER TECHNIQUE FOR DERIVING ORBITAL AND GEODETIC INFORMATION N64-32948 24-32

EPHEMERIS OF EXPLORER AND VANGUARD SATELLITE OBSERVATIONS
NASA-CR-59174 N64-33116 24-08

LOW ENERGY ELECTRON DISTRIBUTION IN OUTER PORTION OF EARTH MAGNETOSPHERE NEAR GEOMAGNETIC EQUATORIAL PLANE - EXPLORER SATELLITE DATA N64-33152 24-28

EXPLOSION
SA DISCHARGE
SA LAMINAR FLAME
SA NUCLEAR EXPLOSION
CF BLAST
CF DETONATION
RADIOACTIVE TUNGSTEN IN ATMOSPHERE FROM THERMONUCLEAR BOMB
JPRS-17679 N64-10485 01-21

SEISMIC WAVES GENERATED BY CHEMICAL EXPLOSIONS
AFCRL-63-701 N64-11467 03-12

SELECTED ARTICLES ON PLASMA PHYSICS, THERMAL IONIZATION, ELECTRIC EXPLOSIONS, & CONVECTIVE HEAT TRANSFER
FTD-TT-62-1778/1&2 N64-11711 03-01

EFFECT OF RATE OF ENERGY RELEASE IN ELECTRIC EXPLOSIONS IN WATER & DISTRIBUTION OF EXPLOSIVE ENERGY N64-11716 03-11

ANALYSES OF EXPLOSIONS, DETONATIONS, FLAMMABILITY LIMITS, GAS IGNITION, HETEROGENEOUS BURNING, AND EXPLOSION PREVENTION - HIGH ENERGY REACTIONS
AGARDOGRAPH-31 N64-12125 03-26

SHOCK WAVES FROM CONDENSED EXPLOSIONS IN AIR AT VARIOUS DENSITIES AND AMBIENT PRESSURES
NOLTR-63-13 N64-12261 03-26

SUPPRESSION OF PENTABORANE FIRES AND EXPLOSIONS IN AIR BY MEANS OF DIFFUSION BURNER & HETEROGENEOUS SHOCK TUBE
RTD-TDR-63-4007 N64-12311 03-26

EFFECT OF MATERIAL PROPERTIES ON COUPLING OF EXPLOSION ENERGY
AFSWC-TDR-63-47 N64-12813 04-19

MOTION PICTURE AND TRANSDUCER STUDIES OF PRESSURE WAVE FROM SUBMERGED ELECTRIC DISCHARGE
GMRI-644.00 N64-13209 04-23

EXPLOSION CONTAINER - SPHERICAL CONCRETE SHELL WITH OUTER STEEL SKIN
LA-2901 N64-13909 05-34

THEORY OF ELASTIC RESPONSE OF THIN SPHERICAL SHELL TO AXISYMMETRIC BLAST LOADING FROM DETONATION OF ECCENTRICALLY PLACED INTERNAL EXPLOSIVE CHARGES
BRL-MEMO-1520 N64-14674 06-33

EXPLOSION OF ELECTRICAL NICHROME WIRE IN CIRCUITS WITH VARYING INTERNAL RESISTANCE
AD-421985 N64-14692 06-09

ELASTIC & PLASTIC DEFORMATION OF METALS BY IMPACT AND EXPLOSIVE LOADING N64-15108 07-33

MECHANISMS OF POTENTIAL AIRCRAFT FUEL TANK VENT FIRES AND EXPLOSIONS CAUSED BY ATMOSPHERIC ELECTRICITY
NASA-TN-D-2240 N64-15528 07-26

CLOSE-IN PHENOMENA OF UNDERGROUND EXPLOSIONS - GENERATION OF SEISMIC WAVES
DASA-1382 N64-15598 07-26

EFFECT OF EXPLODING BRIDGEWIRE LENGTH AND CIRCUIT INDUCTANCE ON EXPLOSION OF PENTAERYTHRYTOL TETRANITRATE /PETN/
NOLTR-63-159 N64-18257 10-26

TRANSIENT RESPONSE OF TALOS AIRFRAME WHEN SUBJECTED TO UNDERWATER EXPLOSION - MATHEMATICAL MODEL N64-18546 11-30

GROUND AMPLITUDES PRODUCED BY SMALL SURFACE EXPLOSIONS N64-19480 12-12

THEORETICAL SEISMOGRAMS FOR SURFACE MOTION OF HOMOGENEOUS FLUID SPHERE DUE TO IMPULSIVE POINT PRESSURE SOURCE AT SMALL DEPTH
AFCRL-64-183 N64-19650 12-26

HYDRODYNAMIC EFFECTS OF LOW ENERGY SPHERICAL UNDERWATER EXPLOSIONS
UTIAS-96 N64-21166 14-11

ACCIDENT INVESTIGATION - EXPLOSION INVOLVING USE OF OXYGEN DIFLUORIDE
REPT.-63-136 N64-21362 14-07

THEORIES OF MOLECULAR STRUCTURE AND PLASMA PHYSICS IN FIRST PICOSECOND OF WIRE EXPLOSION N64-21378 14-23

RESPONSE OF SUBMERGED SPHERICAL SHELLS TO INTERNAL BLAST LOADING
BRL-1231 N64-21805 15-33

UNDERGROUND EXPLOSION WAVES
FTD-TT-63-724/1&2&4 N64-23580 16-12

SHEAR STRAIN AND STRESS MEASUREMENT GAUGES FOR AUTOMATIC RECORDING OF PARAMETERS ON BURIED

STRUCTURES DURING UNDERGROUND EXPLOSIONS
AFSWC-TDR-62-148 N64-23915 16-15

EXPLOSION SAFETY PRECAUTIONS AND STANDARDS FOR HYDROGEN, HYDROGEN DETECTOR, AND DETONATION IN HYDROGEN-OXYGEN MIXTURES N64-26035 18-19

FIRE AND EXPLOSION HAZARDS OF FLIGHT VEHICLE COMBUSTIBLES
ASD-TR-61-278, SUPPL. 3 N64-28608 20-26

HYDRODYNAMICS OF EXPLOSIONS - SHOCK WAVE PROPAGATION, EXPLOSION IN UNBOUNDED MEDIUM, BOUNDARY PROBLEMS, & PROBLEM OF EXTERNAL FORCES
FTD-TT-63-381/1&2, N64-29321 21-11

THEORETICAL STUDY OF WAVE PROPAGATION BY EXPLOSION IN SPHERICAL CAVITY IN METAL
QPR-9 N64-29561 21-33

RECTIFICATION OF OBLIQUE AERIAL PHOTOGRAPHS TO OBTAIN CONTOURS OF BASE SURGE FORMED BY UNDERWATER NUCLEAR EXPLOSION
NOLTR-64-91 N64-29860 21-21

TRANSITION FROM DEFLAGRATION TO DETONATION - CRITICAL CONDITION IN TIME-DEPENDENT THERMAL EXPLOSIONS
NOLTR-63-282 N64-30594 22-13

INDUCED VOLTAGE TECHNIQUE FOR EXPLODING PLASTIC PROJECTILE IN BALLISTIC SHOCK TUNNEL
NOLTR-62-173 N64-31075 22-01

FIREFLY PROJECT IONOSONDE MEASUREMENTS OF ELECTRON DENSITY IN E AND F LAYERS FROM EXPLOSIONS AND CHEMICAL CLOUDS N64-31383 23-12

GROUND BASED ACOUSTIC DETECTION OF HIGH ALTITUDE EXPLOSIONS - FIREFLY PROJECT N64-31385 23-32

ACOUSTIC RADIATION FROM FIREFLY PROJECT EXPLOSIONS IN UPPER ATMOSPHERE N64-31395 23-12

IONOSPHERIC TEMPERATURE FROM FIREFLY PROJECT PHOTOGRAPHY OF UPPER ATMOSPHERE EXPLOSIONS N64-31396 23-12

PHYSICS OF COMBUSTION AND EXPLOSION
IPST-640 N64-33510 24-26

EXPLOSIVE
SA NITROCELLULOSE
SA NITROGLYCERIN
SA PENTOLITE
CF CHARGE
CF PROPELLANT
SAFETY HAZARDS CONTROL - RADIOACTIVE MATERIALS, FIRE DETECTION, & EXPLOSIVE HANDLING
UCRL-7450 N64-11096 02-01

EXPLOSIVE PROPERTIES OF OZONE IN LIQUID OXYGEN UNDER HIGH PRESSURE PULSE
FTD-TT-62-1460/1&2&4 N64-11153 02-07

ONE-DIMENSIONAL NUMERICAL TREATMENT OF DEFLAGRATION TO DETONATION TRANSITION OF DENSE HETEROGENEOUS EXPLOSIVES
NOLTR-63-197 N64-11175 02-19

CRATERING EXPERIMENT OF SCOOTER HIGH EXPLOSIVES IN PLOWSHARE PROGRAM
SC-4602/RR/ N64-11787 03-23

COMBUSTION PROPERTIES OF EXPLOSIVE POWDERS N64-11977 03-26

TYPES OF EXPLOSIVE POWDERS
FTD-TT-63-281/1&2 N64-12839 04-26

APPARATUS FOR DIFFERENTIAL THERMAL ANALYSIS OF EXPLOSIVE MATERIALS
LAMS-2988 N64-13294 04-26

APPARATUS FOR ELECTROSTATIC SENSITIVITY DETERMINATIONS OF EXPLOSIVES
PA-TM-1288 N64-13667 05-26

COMPUTER PROGRAM FOR CALCULATING DETONATION PROPERTIES OF HIGH EXPLOSIVES - CARBON-HYDROGEN-NITROGEN-OXYGEN SYSTEMS
NOLTR-63-216 N64-14106 05-26

DETERMINATION OF SHOCK WAVE SENSITIVITY BY DETONATION TRANSFER FROM EXPLOSIVES THROUGH COPPER BARRIERS TO EXPLOSIVES
RSIC-122 N64-16041 07-26

NUCLEAR EXPLOSIVES FOR DEHYDRATION OF LUNAR WATER-BEARING DEPOSITS
UCRL-7515 N64-16547 08-29

SAFETY HAZARDS AND SENSITIVITY CHARACTERISTICS OF LIQUID EXPLOSIVE SYSTEMS
AD-431641 N64-16624 08-26

KINETIC EQUATIONS DESCRIBING THERMAL EXPLOSION OF SELF-HEATING COMPOUNDS DUE TO DECOMPOSITION
NOLTR-63-251 N64-17437 09-26

INITIATION MECHANISMS OF DETONATION WAVES IN EXPLOSIVES AND PROPELLANTS N64-18495 10-26

MECHANISM OF DETONATION OF LIQUID EXPLOSIVES - NITROMETHANE
FTD-MT-63-78/1&2 N64-18761 11-26

FACTORS IN IGNITION AND COMBUSTION OF SECONDARY EXPLOSIVES
FTD-TT-63-325/1 N64-19215 11-26

HYDRODYNAMIC THEORY OF DETONATION OF CONDENSED EXPLOSIVES
FTD-TT-63-1112/1&2 N64-19759 12-26

EXPLOSIVE REACTIONS IN CONDENSED SYSTEMS - KINETICS OF THE THERMAL DECOMPOSITION OF TRINITROTOLUENE
TIL/T-5435 N64-21400 14-07

RESPONSE OF SUBMERGED SPHERICAL SHELLS TO INTERNAL BLAST LOADING
BRL-1231 N64-21805 15-33

SEISMIC WAVE PRODUCED BY EXPLOSIVE DETONATION IN ROCK CAVITY
BM-RI-6472 N64-22800 16-12

EXPLOSIVE SENSITIVITY CHARACTERISTICS OF NITROGLYCERIN-ETHYLENEGLYCOL DINITRATE
PR-9 N64-23112 16-26

PENETRATION OF SHAPED CHARGES INTO FROZEN GROUND
CRREL-130 N64-23139 16-12

DETONATION WAVE PHENOMENA USING DUAL EXPLOSIVE CHARGES SEPARATED BY METAL BARRIER
NAVWEPS-8507 N64-24330 17-23

INADEQUACY OF THERMAL INITIATION THEORY IN INTERPRETING RESULTS OF FISSION FRAGMENT IRRADIATION OF EXPLOSIVES AT ELEVATED TEMPERATURES
PA-TR-3157 N64-25349 17-26

COMPOSITION OF GAS FORMED DURING EXPLOSIVE COMBUSTION
FTD-TT-64-328/1 N64-26119 18-07

CHARACTERISTICS OF CONDUCTIVE EXPLOSIVE MIXTURE CONTAINING MODERATE AMOUNTS OF ALUMINUM
TM-1337 N64-26227 18-26

THERMAL RADIATION OF FLAME WITH CONDENSED MAGNESIUM OXIDE PARTICLES IN REFERENCE TO SOLID ROCKET PROPELLANTS AND EXPLOSIVES N64-26340 18-26

SHOCK SENSITIVITY OF LIQUID EXPLOSIVES
PR-10 N64-26485 18-26

FALLOUT MEASUREMENTS USING PLUTONIUM AND URANIUM TRACERS IN HIGH EXPLOSIVE DETONATIONS UNDER FIFTEEN FOOT GRAVEL COVERINGS
SC-R-64-127 N64-26696 18-23

EXPLOSIVE SHOCK WAVES EFFECT ON REFRACTORY ELEMENT PROPERTIES - HIGH ENERGY RATE-FORMING N64-27586 19-18

SHOCK WAVE PROPAGATION AND TRANSITION TO DETONATION IN EXPLOSIVES
BRL-1250 N64-28153 20-11

MEASUREMENT OF CHAPMAN-JOUGUET PRESSURES AND REACTION ISENTROPIC EXPONENTS OF PURE AND MIXED EXPLOSIVES FROM SMEAR CAMERA SHADOWGRAPHS OF CYLINDRICAL SHOCK WAVES IN WATER
NOLTR-64-58 N64-29864 21-11

DETONATION IN PROPELLANTS & EXPLOSIVES BY LOW AMPLITUDE SHOCKS
AD-406438 N64-30144 21-26

ASSOCIATION OF BREMSSTRAHLUNG X-RAYS WITH EXPLOSIVE SOLAR FLARES N64-30276 22-28

FEASIBILITY OF INITIATING ROCKET MOTOR THROUGH BARRIER USING HIGH EXPLOSIVES WITHOUT PERFORATING BARRIER
TR-3085 N64-31264 22-27

STANDARD TESTS AND DATA TABULATION ON EXPLOSIVE PROPERTIES - HANDBOOK FOR MILITARY USE
AMCP-706-177 N64-33130 24-07

TRANSITION FROM BURNING TO DETONATION IN PENTOLITE EXPLOSIVE - CONFINEMENT, PRESSURE, AND SHOCK SENSITIVITY
NOLTR-64-138 N64-33967 24-26

SHOCK STIMULUS EFFECT ON GROWTH & STABILITY IN INITIATION MECHANISMS OF LOW VELOCITY DETONATIONS IN LIQUID EXPLOSIVES
AD-443796 N64-33978 24-26

EXPLOSIVE DEVICE
SA DETONATOR
SA PRIMER
SA SQUIB
PREDICTING VERY LOW ELECTROEXPLOSIVE DEVICE FIRING PROBABILITIES BY PROPER SAMPLING, INSTRUMENTATION, AND DATA COLLECTION
NOLTR-63-133 N64-13646 05-26

ELIMINATION OF ELECTROMAGNETIC RADIATION HAZARDS TO ELECTROEXPLOSIVE DEVICES N64-15267 07-26

EXPLOSIVELY ACTUATED FLASH PROTECTION DEVICE
A-1640 N64-15738 07-23

HIGH & LOW PROBABILITY ELECTROEXPLOSIVE DEVICE FUNCTIONING LEVELS
NOLTR-63-266 N64-18643 11-26

LOW PASS TRANSMISSION LINES FOR PROTECTION OF ELECTROEXPLOSIVE DEVICES FROM INADVERTANT FIRING
N64-22815 16-09

EXPLOSIVE DRIVEN MAGNETOHYDRODYNAMIC GENERATOR FOR ELECTRIC POWER CONVERSION
NB-A-63197 N64-33357 24-06

EXPONENTIAL FUNCTION
FOURIER TRANSFORM OF EXPONENTIAL FUNCTION FOR CASES OF ASYMPTOTIC AND CONVERGENT SERIES
LAMS-2975 N64-10188 01-20

INDEFINITE INTEGRALS INVOLVING PRODUCTS OF EXPONENTIAL BESSEL FUNCTIONS
AFCRL-63-513 N64-12857 04-20

ONE-PARAMETER EXPONENTIAL FAMILIES GENERATED BY TRANSFORMATION GROUPS
MRC-409 N64-12996 04-20

TABLES OF EXPONENTIAL MOMENTS
EUR-462.F N64-13144 04-20

NONUNIFORMLY-WEIGHTED ORTHONORMAL OVERDAMPED EXPONENTIAL APPROXIMATIONS
SM-45777 N64-17757 09-29

SIMULATION OF RANDOM PROCESSES BY DIOPHANTINE APPROXIMATIONS WITH EXPONENTIAL FUNCTIONS
FTD-TT-62-1367/1&2 N64-22389 15-20

SOLUTION OF ALGEBRAIC EQUATIONS OF N-POWER WITH POSITIVE REAL ROOTS
FTD-TT-63-1032/1&2 N64-23436 16-20

MODELING OF LOGARITHMIC AND EXPONENTIAL FUNCTIONS WITH NONLINEAR SEMICONDUCTOR RESISTORS
N64-29138 21-15

EXPOSURE
SA RADIATION EXPOSURE
DEVELOPMENT OF TECHNIQUES RELATED TO TEMPORAL ASPECTS OF PHOTO INTERPRETATION - EXPOSURE TIME & WORK-REST CYCLES N64-10534 01-14

THERMAL & METABOLIC RESPONSE OF MEN TO MODERATE COLD EXPOSURE AT NIGHT
AAL-TDR-62-44 N64-13645 05-16

B-58 AIRCRAFT COCKPIT WINDSHIELD EXPOSURE TEST - DEGRADATION TIME FOR PIGMENTED GLASS
FTDH-2949 N64-16390 08-19

PHYSIOLOGICAL EFFECTS OF EXPOSURE TO INCREASED OXYGEN TENSION
SAM-TDR-63-64 N64-16640 08-14

OPTIMUM EXPOSURE CONDITIONS FOR RADIOGRAPHIC DETECTION OF DEFECTS IN GRAPHITE
WADD-TR-61-72, VOL. XVII N64-21019 14-19

USE OF EXPOSURE METER IN ELECTRON MICROSCOPY
N64-23146 16-09

EXPULSION
WELDED METAL BELLOWS - RELIABLE EXPULSION DEVICE FOR LIQUID PROPELLANTS
AIAA PAPER-64-264 N64-23611 16-26

EXTENSOMETER
CAPACITANCE EXTENSOMETERS FOR MICROSTRAIN MEASUREMENTS N64-16771 08-15

EXTERNAL COMBUSTION ENGINE
CF COMBUSTION
FUELS SUITABLE FOR APPLICATION TO EXTERNAL COMBUSTION ENGINE - DEFENDER PROJECT
TM-109 N64-25754 17-26

EXTERNAL STORE
S NACELLE

EXTINGUISHER
LOW PRESSURE ROCKET EXTINCTION
NASA-CR-53037 N64-14742 06-26

CHEMICAL EXTINGUISHERS FOR ROCKET PROPELLANT AND METALLIC FIRES
RTD-TDR-63-4208 N64-18570 11-26

FLAME EXTINGUISHMENT BY CHEMICAL AND PHYSICAL METHODS
ASD-TR-61-408, SUPPL. 2 N64-20177 13-26

FIRE PREVENTION AND EXTINGUISHMENT IN SPACE CABINS
N64-20750 14-26

EXTRACTION
SA HYDROLYSIS
SA SEPARATION
CF ION EXTRACTION
SEPARATION OF SOLUTES BY COUNTER-CURRENT TECHNIQUE INVOLVING OXIDATION-REDUCTION REACTIONS IN SALT-LIQUID METAL SYSTEMS
IS-660 N64-11437 02-07

SEPARATION CHEMISTRY AND EXTRACTION PROCESSES
ORNL-3496 N64-11547 03-07

EXTRACTION-PHOTOMETRIC DETERMINATION OF PERCHLORATES IN PRESENCE OF CHLORATES
RSIC-90 N64-11752 03-07

HOT SEMIWORKS FOR RECOVERY OF STRONTIUM-90 - SOLVENT EXTRACTION, ION EXCHANGE, & PRECIPITATION PROCESSES
HW-72666 N64-13018 04-07

LONGITUDINAL DISPERSION IN PACKED EXTRACTION COLUMN WITH AND WITHOUT PULSATION
UCRL-10928 N64-13214 04-11

CHEMICAL EXTRACTION AND SEPARATION OF PROTACTINIUM BY VARIOUS SOLVENTS AND METHODS OF PRECIPITATION
TID-7675 N64-15651 07-07

SEPARATION & ION EXCHANGE BEHAVIOR OF PROTACTINIUM IN TRIBUTYL PHOSPHATE WITH NITRIC ACID, XYLENE, OR KEROSENE SOLUTIONS N64-15652 07-07

INFRARED SPECTROSCOPIC STUDY OF TRIBUTYL PHOSPHATE NITRIC ACID WATER SOLVENT EXTRACTION SYSTEM
IS-728 N64-15671 07-07

METATHESIS OF BASTNASITE AND SOLVENT EXTRACTION OF CERIUM
BM-RI-6381 N64-15831 07-07

ZIRFLEX AND NEUFLEX PROCESSES FOR PREPARATION OF SOLVENT EXTRACTION FEEDS FROM UNIRRADIATED ZIRCONIUM-BASE REACTOR FUELS
ORNL-3465 N64-17255 09-07

HIGH PERFORMANCE SOLVENT EXTRACTION MACHINE FOR APPLICATION TO VERY HIGHLY RADIOACTIVE SOLUTIONS
ORNL-3533 N64-18248 10-07

SOLVENT EXTRACTION STUDY OF MONAZITE RARE EARTH NITRATES, NITRIC ACID, WATER, AND TRIBUTYL PHOSPHATE
IS-780 N64-19003 11-07

EXTRACTION OF ACTINIDE AND LANTHANIDE NITRATES FROM NITRIC ACID USING ALKYL PHOSPHINE OXIDES
EUR-437.F N64-20831 14-07

SOLVENT EXTRACTION OF RARE EARTHS, CERIUM, AND STRONTIUM USING 2-DIETHYLHEXYL PHOSPHORIC ACID
HW-79762, PT. 2 N64-21736 15-07

SOLVENT EXTRACTION OF STRONTIUM, CERIUM AND RARE EARTHS FROM PUREX ACID WASTE BY DIETHYLHEXYL PHOSPHORIC ACID
HW-79762, PT. 1 N64-25978 18-07

MATHEMATICAL MODEL FOR MECHANICALLY AGITATED LIQUID EXTRACTION DEVICE - PULSE COLUMN
IS-849 N64-27527 19-07

BEAM EXTRACTION SYSTEM FOR SYNCHROCYCLOTRON
N64-28167 20-10

NAPHTHENIC ACID SOLVENT EXTRACTION OF RARE EARTH SULFATES
BM-RI-6396 N64-28456 20-07

ALUMINUM EXTRACTION CHARACTERISTICS OF CALCIUM ALUMINATES IN WATER AND IN SOLUTIONS OF SODIUM HYDROXIDE AND SODIUM CARBONATE
BM-RI-6528 N64-30129 21-07

SOLVENT EXTRACTION RECOVERY OF THORIUM AND YTTRIUM FROM SILICA-CONTAINING COLORADO ORES
BM-RI-6457 N64-31295 22-07

EXTRASENSORY PERCEPTION
RARE PHENOMENA OF VISION IN FINGERS - EXTRASENSORY PERCEPTION
JPRS-20012 N64-10459 01-01

EXTRASENSORY PERCEPTION - HUMAN COMMUNICATION WITH ANIMALS
FTD-TT-62-1876/1 N64-21928 15-16

EXTRATERRESTRIAL ENVIRONMENT
SA LUNAR ENVIRONMENT
SA PLANETARY ENVIRONMENT
SA SPACE ENVIRONMENT
SUMMARY AND PROPULSION DESIGN GUIDE FOR SOFT LANDING IN EXTRATERRESTRIAL ENVIRONMENTS
NASA-CR-52486 N64-10623 01-27

SURVIVAL OF EARTH MICROORGANISMS IN SIMULATED MARS ENVIRONMENT
NASA-CR-52841 N64-11293 02-16

PROPULSION REQUIREMENTS FOR SOFT LANDING IN EXTRATERRESTRIAL ENVIRONMENTS - ANALYSIS OF LUNAR AND EARTH-MERCURY MISSIONS
NASA-CR-55088 N64-13375 04-29

PHYSICAL CONDITIONS IN EXTRATERRESTRIAL SPACE AND EFFECT OF LOW GAS DENSITIES ON SPACECRAFT SURFACE MATERIALS
DFL-218 N64-15024 07-29

BACTERIAL SURVIVAL IN SIMULATED EXTRATERRESTRIAL ENVIRONMENT
NASA-CR-53106 N64-16745 08-16

DETERMINATION OF BLOOD FLOW THROUGH INTACT VESSELS UNDER CONDITIONS OF GRAVITATIONAL STRESS AND IN EXTRATERRESTRIAL SPACE CAPSULES
NASA-CR-53302 N64-17766 09-16

INERTIA PUMP FOR USE IN EXTRATERRESTRIAL ENVIRONMENT
ASD-TDR-63-374 N64-21571 15-11

ANAEROBIC BACTERIA SURVIVAL IN EXTRATERRESTRIAL ENVIRONMENTS
NASA-CR-50934 N64-22758 16-16

ORGANISMS UNDER TERRESTRIAL AND EXTRATERRESTRIAL ENVIRONMENTS
NASA-CR-56527 N64-22788 16-16

PROPULSION REQUIREMENTS FOR SOFT LANDING IN EXTRATERRESTRIAL ENVIRONMENT
NASA-CR-58034 N64-27803 19-21

EXTRATERRESTRIAL ENVIRONMENTS, VEHICLE SYSTEMS FOR INTERPLANETARY FLIGHT, LANDING PROPULSION SYSTEMS, LUNAR LANDING IMPACT DEVICES, AND PROPELLANT STORAGE
NASA-CR-58035 N64-29187 21-21

BIBLIOGRAPHY OF EXTRATERRESTRIAL RESEARCH
AFWL-TDR-64-29 N64-32101 23-21

EXTRATERRESTRIAL LIFE
SA LIFE DETECTOR
SPECTROPHOTOMETER ATTACHMENT FOR DETECTION OF EXTRATERRESTRIAL LIFE
NASA-CR-52073 N64-10169 01-16

EXTRATERRESTRIAL LIFE - METEORITES, PLANETS, AND OUTER SPACE ENVIRONMENTS
JPRS-22015 N64-10599 01-16

POSSIBILITY OF EXISTENCE AND METHODS OF DETECTING EXTRATERRESTRIAL LIFE N64-11671 03-16

SPACE BIOLOGY - PHYSIOLOGICAL EFFECTS, EXTRA-TERRESTRIAL LIFE, CLOSED ECOLOGICAL SYSTEM, SECURITY, LIFE EFFECTS, AND RADIOBIOLOGY
N64-11855 03-01

EVIDENCE FOR EXISTENCE OF LIFE ON MARS
N64-14741 06-16

POLARIMETRIC DETECTION OF OPTICALLY ACTIVE MATERIAL IN SOILS FOR REMOTE DETERMINATION OF EXTRATERRESTRIAL LIFE
NASA-CR-55657 N64-15387 07-21

BIBLIOGRAPHY OF BIOREGENERATING SYSTEMS FOR EXTRATERRESTRIAL HABITATION
AMRL-TDR-63-121 N64-16095 07-16

ULTRAVIOLET RADIATION ABSORPTION BY PEPTIDES FOR DETECTION OF EXTRATERRESTRIAL LIFE ON MARS
NASA-CR-55655 N64-16109 07-16

BACTERIAL CELL DIVISION IN RELATION TO OXIDATION-REDUCTION POTENTIAL CHANGE FOR EXTRATERRESTRIAL LIFE DETECTION
NASA-CR-53734 N64-19577 12-16

RADIOISOTOPIC BIOCHEMICAL PROBE FOR DETECTING EXTRATERRESTRIAL LIFE
NASA-CR-55318 N64-22756 16-16

DETECTION OF EXTRATERRESTRIAL LIFE BY ULTRAVIOLET SPECTROPHOTOMETRY
NASA-CR-50815 N64-22760 16-16

HYDROCARBON ANALYSIS FOR DETECTION OF LIFE IN SPACE - GAS CHROMATOGRAPHY OF ALKANES
NASA-CR-50703 N64-22761 16-16

INFRARED SPECTRUM OF MARS - THEORY OF PRESENCE OF EXTRATERRESTRIAL LIFE
NASA-CR-50208 N64-22764 16-16

EXTRATERRESTRIAL LIFE DETECTOR, AND AUTOMATIC PAPER CHROMATOGRAPHY DEVICE FOR ANALYSIS OF SOLUBLE CONSTITUENTS OF PLANETARY SOIL
NASA-CR-56523 N64-22783 16-16

TEST MICROORGANISMS, BASAL MEDIA, ANTIMETABOLITES, AND RADIATION DETECTION INSTRUMENTATION FOR EXTRATERRESTRIAL LIFE PROBE
NASA-CR-56532 N64-22793 16-16

FEASIBILITY OF USING PRESENT RADIO ASTRONOMY AND RADIOPHYSICS TECHNIQUES FOR EXTRATERRESTRIAL LIFE COMMUNICATION
JPRS-25307 N64-24488 17-08

LIFE ON PLANETS OF OTHER SUNS N64-24503 17-05

APPLICATION OF STATISTICAL DECISION THEORY TO DESIGN OF EXTRATERRESTRIAL LIFE DETECTORS
NASA-CR-58531 N64-28939 20-16

SURVIVAL OF BACILLUS SUBTILIS IN SIMULATED MARTIAN ENVIRONMENT N64-29559 21-16

FEASIBILITY OF OPTICAL ROTATION FOR REMOTE DETECTION OF EXTRATERRESTRIAL LIFE
N64-31026 22-16

EXTRATERRESTRIAL MATTER
SOIL SCIENCE IN MAPPING ARID AREAS AND IN STUDYING EXTRATERRESTRIAL SOILS
NASA-CR-53021 N64-13271 04-12

ORIGIN OF TEKTITES
NASA-RP-150 N64-17711 09-05

EXTRATERRESTRIAL LOW ENERGY PROTONS OVER GEOMAGNETIC POLAR REGIONS
NASA-CR-53180 N64-18480 10-12

SURVEY OF DATA ON MICROSCOPIC EXTRATERRESTRIAL PARTICLES - METEOROLOGY N64-18496 10-05

ANNOTATED BIBLIOGRAPHY ON EXTRATERRESTRIAL MATTER IN INTERPLANETARY SPACE
REPT. 9990-6649-KU-000 N64-20475 13-05

MICROSCOPIC EXTRATERRESTRIAL PARTICLES FROM ANTARCTIC PENINSULA
NASA-TM-X-51131 N64-22778 16-29

CRITIQUE OF PAPER ON ORIGIN AND ATMOSPHERIC ENTRY TRAJECTORY OF TEKTITES
NASA-RP-235 N64-29282 21-12

EXPLOITATION OF EXTRATERRESTRIAL RESOURCES AND PROPELLANT PRODUCTION - WATER AND OXYGEN RECOVERY
N64-29889 21-10

EXTREMUM VALUE
ANALOG COMPUTER USE FOR SOLUTION OF EXTREMUM PROBLEMS IN PHYSICS - VIBRATION THEORY AND GAME THEORY
JPRS-19244 N64-10585 01-20

OPERATING CONDITIONS OF EXTREMAL SYSTEM FOR WATER CONTROL N64-23082 16-09

EXTREMAL REGIONS CONNECTED WITH ONE SHEETED FUNCTIONS N64-31747 23-20

EXTRUSION
SA COLD DRAWING
SA COLD WORKING
WORKABILITY AND PRACTICAL EMPLOYMENT OF SINTERED ALUMINUM PRODUCTS - EXTRUSION, DRAWING, & ROLLING
EUR-428.I N64-10450 01-17

CAPACITOR DISCHARGE EXTRUSION AND DYNAMIC RESPONSE OF SHOCK LOADING
RAC-1776 N64-12640 04-17

HIGH ENERGY RATE EXTRUSION OF ALLOYS
ASD-TR-7-882/11/ N64-14790 06-18

PRESSURE PULSE PHENOMENA, PRESSURE VESSEL DESIGN, AND ELECTROSPARK EXTRUDING
RAC-2027 N64-15500 07-34

EXTRUDING AND DRAWING MOLYBDENUM TO COMPLEX THIN H-SECTION
RTD-TR-8-112/2/ N64-16079 07-17

HOT EXTRUSION OF CERAMIC MATERIALS
N64-16614 08-17

METALLURGICAL PROCESSING OF TANTALUM-TUNGSTEN ALLOY EXTRUSION SURFACES
ASD-TR-7-783/3/ N64-18576 11-17

EXTRUSION, FORGING, ROLLING, AND SWAGING OF TUNGSTEN-BASE ALLOYS
ASD-TDR-62-670, PT. 2 N64-18577 11-18

EXTRUSION TECHNOLOGY OF HIGH STRENGTH TITANIUM ALLOY
ASD-TR-8-103, VOL. 2 N64-19112 11-17

METALLURGICAL DEFECTS IN ALUMINUM EXTRUSIONS
NAA-SR-8262 N64-19286 11-18

HIGH VELOCITY CO-EXTRUSION METHOD FOR FABRICATING TUNGSTEN CERMET AND REFRACTORY METAL CLADDING
LAMS-3065 N64-22251 15-18

EXTRUDING AND DRAWING MOLYBDENUM TO COMPLEX THIN H-SECTION
RTD-TR-8-112 N64-22310 15-18

SIMULATED EXTRUSIVE MAGMA SOLIDIFICATION IN VACUUM
N64-24056 16-29

STATIC AND DYNAMIC CONSIDERATIONS FOR THICK-WALLED EXTRUSION DEVICES
RAC-2288 N64-25083 17-09

FABRICATION, EXTRUSION, AND FORMING OF URANIUM MARK V-B BILLETS
BRB-81 N64-25818 17-01

EXTRUSION OF URANIUM DIOXIDE
EUR-547.F N64-26070 18-18

DESIGN OF PRESSURE VESSEL, PUMPING SYSTEM, AND WORKING FLUIDS FOR ELECTROSPARK EXTRUSION WITH CAPACITOR DISCHARGE ENERGY
RAC-2491 N64-26204 18-17

CLOSED DIE FORGING, RING ROLLING, SHEAR FORMING, TUBE AND SHAPE EXTRUSIONS, AND CENTRIFUGAL CASTING OF REFRACTORY ELEMENTS N64-27598 19-18

EXTRUSION AND DRAWING OF NIOBIUM ALLOY H SECTIONS
IR-1 N64-28225 20-18

EXTRUSION AND COLD WORKING ASPECTS OF DISPERSION-STRENGTHENED ALUMINUM
EUR-1844.F N64-28417 20-18

SCALE SIZE WAFFLE PANEL WITH INTEGRAL RIBS FORMED BY COLD PRESS-EXTRUSION TECHNIQUE
NASA-TM-X-53058 N64-28746 20-34

REFRACTORY MATERIAL LINERS FOR EXTRUSION BILLET CONTAINERS
ML-TDR-64-194 N64-30117 21-17

EXTRUDING AND DRAWING MOLYBDENUM ALLOY TO COMPLEX THIN H-SECTION
RTD-TR-8-112, PART 4 N64-30988 22-18

STEEL EXTRUSION IMPROVEMENTS
NOR-63-170 N64-31162 22-18

HIGH TEMPERATURE EXTRUSION LUBRICANTS - MAGNESIUM BORATE-GRAPHITE LUBRICANT FOR STEEL AND MOLYBDENUM ALLOY EXTRUSION
ML-TDR-64-256 N64-32151 23-17

TENSILE TESTING, FLUID-TO-FLUID EXTRUSION, AND COLD DEFORMATION OF BERYLLIUM AND TUNGSTEN
EPR-1 N64-32652 23-18

ELECTROHYDRAULIC EXTRUSION DEVICE TO OPERATE AT

HIGH HYDROSTATIC PRESSURES
RAC-2638 N64-33101 24-17

EXTRUSION, RECRYSTALLIZATION, AND MICROSTRUCTURE OF TUNGSTEN ALLOYS
AD-445063 N64-33752 24-18

EYE
SA LENS
SA RETINA
CF OPHTHALMOLOGY
CF VISION
IONIZING RADIATION EFFECT ON VISUAL PATHWAY & EYE OF CAT
UCRL-11005 N64-11097 02-16

EYE MELANIN FREE-RADICAL KINETICS & MECHANISM IN RELATION TO ADSORPTION OF OXYGEN BY SEMICONDUCTORS
NADC-MA-6320 N64-12597 04-09

EFFECTS OF EXTERNALLY APPLIED PHYSICAL VIBRATION ON TISSUES OF DOG EYE
AMRL-TDR-63-120 N64-14696 06-16

ADAPTATION OF EYE TO FLASHBLINDNESS
NADC-MA-6327 N64-15052 07-16

EYE FATIGUE STUDY
JPRS-24592 N64-20483 13-16

SIMULTANEOUS STUDY OF EYE BLINKING REFLEXES AND FUNCTIONAL STATE OF CARDIOVASCULAR SYSTEM IN HUMANS
JPRS-24967 N64-21783 15-16

LIGHT AND COLOR IN NATURE, STRUCTURE OF HUMAN EYE, AND HYGIENE OF COLOR VISION
JPRS-25184 N64-22742 16-16

EFFECT OF MICROWAVE RADIATION ON EYES
FTD-TT-63-1070/1&2 N64-23438 16-09

PROTECTION OF HUMAN EYE FROM LASER BEAM
TR-1153 N64-24092 16-14

ROLE OF EYE MOVEMENTS IN SPATIAL VISION
N64-25138 17-16

HUMAN EYE REFLEX RESPONSE TO VERTICAL ACCELERATION AND RELATIONSHIP TO LABYRINTH - ELEVATOR ILLUSION
FPRC-1213 N64-25846 18-16

VISUAL ILLUSIONS DUE TO ACCELERATION AND EYE MOTION
FPRC-1207 N64-25847 18-16

HIGH OXYGEN ENVIRONMENT EFFECTS ON VISUAL MECHANISMS AND OCULAR PHYSIOLOGY
SAM-REVIEW-3-64 N64-26269 18-16

VISUAL ADAPTATION IN EYE OF MAN - ANTIBIOTIC EFFECT ON BLOOD CONTENT AND ORGANS OF IRRADIATED RATS - ELECTRIC RESISTANCE IN SECTION OF PULMONARY TISSUE IN MAN
JPRS-25464 N64-28425 20-16

RADIATION EFFECTS ON MAMMALIAN EYE - SUBJECT INDEX
TID-3912 N64-28788 20-16

STATIC REFRACTORY ERROR OF CHIMPANZEE EYE UNDER SERNYL ANESTHESIA
ARL-TDR-64-9 N64-32026 23-16

EYE EXAMINATION
AIRLINE PILOT EYE MOVEMENTS DURING TAKEOFF AND LANDING IN VISUAL METEOROLOGICAL CONDITIONS
ARL/HE-15 N64-22133 15-16

EYE MOVEMENT
CF NYSTAGMUS
PRE-MOTOR BRAIN SECTIONS IN EYE MOVEMENT CONTROL
N64-30325 22-14

F

F- 2 LAYER
ESTIMATION OF F-2 LAYER DISTURBANCE IN HIGH LATITUDES - QUIET DAY IONIZATION & DEVIATION OF CRITICAL FREQUENCIES
JPRS-17835 N64-10489 01-12

GEOGRAPHIC DISTRIBUTION OF IONOSPHERIC F-2 LAYER DISTURBANCES & EFFECT OF MAGNETIC STORM
T-384-R N64-11280 02-12

SURVEY OF F- 2 LAYER IONIZATION
N64-20762 14-12

FLUCTUATION OF IONIZATION IN F- 2 LAYER
N64-20764 14-12

VARIATIONS IN ALTITUDES OF MAXIMUM ELECTRON CONCENTRATION OF F- 2 LAYER
NASA-TT-F-9019 N64-22945 16-12

LATITUDINAL AND SEASONAL DISTRIBUTION OF DAILY MAXIMA AND MINIMA OF F- 2 LAYER CRITICAL FREQUENCIES
NASA-TT-F-9018 N64-23133 16-12

PITCH-ANGLE DISTRIBUTION OF PHOTOELECTRONS AND ORIGIN OF GEOMAGNETIC ANOMALY IN F- 2 LAYER
NASA-RP-213 N64-24065 16-12

SPATIAL DISTRIBUTION OF ANOMALOUS IONIZATION IN F- 2 LAYER AT HIGH LATITUDE
NASA-TT-F-8947 N64-30840 22-12

F- 8 AIRCRAFT
F-8 AIRCRAFT FLIGHT TEST SUMMARY
FT/F-8/-306 N64-12386 03-04

F CENTER
F-CENTER MODULATION TRANSFER SCHEME FOR MIROS PROGRAM
NASA-CR-55087 N64-12160 03-20

F LAYER
STRUCTURE OF F-LAYER & REASONS FOR CONVECTION IN EARTHS CORE - JEFFRIES EFFECT & GUTENBERG EFFECT
JPRS-20183 N64-10662 01-20

SHAPE OF UPPER F-REGION - EQUILIBRIUM SOLUTIONS FOR CONTINUITY EQUATION FOR ATOMIC OXYGEN IONS IN TERMS OF EXPONENTIAL SERIES N64-13009 04-12

LOSS COEFFICIENT AND DRIFT VELOCITY STUDIES OF IONOSPHERIC F-REGION USING ELECTRON DENSITY
RPU-514 N64-16933 09-12

IONOSPHERIC IRREGULARITY - F- AND D-REGION IRREGULARITIES
AFCRL-63-532 N64-17192 09-12

IRREGULARITIES IN F-REGION FROM EQUATORIAL SPREAD F - IONOSPHERIC IRREGULARITY
N64-17193 09-12

F REGION IRREGULARITIES STUDIED BY SCINTILLATION OF SIGNALS FROM SATELLITES N64-32527 23-12

F-105 AIRCRAFT
AERIAL DELIVERY OF PHOTOGRAPHIC PRINTS FROM F-101 AND F-105 AIRCRAFT
TAC-TR-63-32 N64-21394 14-12

F-105F FIGHTER AIRCRAFT TRAINING SUITABILITY TEST
TAC-TR-63-20 N64-24077 16-04

F-111 AIRCRAFT
F-111 AIRCRAFT FUEL TANK CHANNEL SEALANTS
FGT-3041 N64-16632 08-12

EVALUATION OF SEALANTS FOR F-111 AIRCRAFT FUEL TANK
FTDM-3125 N64-16636 08-12

CORROSION PROTECTION COATINGS FOR F-111 AIRCRAFT FUEL TANKS
FTDM-3126 N64-16637 08-12

VIBRATION PREDICTION FOR JET POWERED VEHICLES AND APPLICATION TO F-111 AIRCRAFT N64-18539 11-12

METAL-TO-METAL AND SANDWICH PLATE ADHESIVE ENVIRONMENTAL TESTING FOR F-111 AIRCRAFT

FGT-3048 N64-26041 13-19

CREEP TESTING OF ADHESIVE MATERIALS FOR F-111 AIRCRAFT
FGT-3093 N64-20045 13-19

THERMOCONDUCTIVITY OF THERMAL INSULATION PANELS IN F-111 AIRCRAFT
FTDM-3174 N64-20059 13-34

TENSILE AND FATIGUE PROPERTIES OF FORGINGS, ROLLED PLATE, & WELDMENTS OF HEAT-TREATED H-11 STEEL FOR F-111 AIRCRAFT STRUCTURES
FTDM-3177 N64-20060 13-18

SCREENING TEST OF FILLETING AND FAYING SURFACE SEALANTS FOR INTEGRAL FUEL TANKS OF F-111 AIRCRAFT
FTDM-3210 N64-20064 13-19

SCREENING TESTS OF CORROSION PROTECTION COATINGS FOR USE IN F-111 AIRCRAFT INTEGRAL FUEL TANKS
FTDM-3211 N64-20065 13-17

ENVIRONMENTAL EXPOSURE OF ADHESIVES FOR F-111 AIRCRAFT
FTDM-3202 N64-20066 13-17

TRANSIENT TEMPERATURE RESPONSE OF SIX COMPOSITE FIBERGLASS-METAL INSULATION PANELS FOR F-111 AIRCRAFT
FTDM-3219 N64-20067 13-17

MECHANICAL AND METALLURGICAL PROPERTIES OF STEEL EXTRUSION FOR F-111 AIRCRAFT
FTDM-3234 N64-20069 13-18

FABRIC
ATMOSPHERIC OXYGEN CONTENT EFFECT ON BURNING RATE OF FABRICS
NADC-MA-6316 N64-12378 03-26

ANTISTATIC AGENT EFFECT ON SYNTHETIC FIBER FABRICS
AERE-R-4254 N64-15699 07-19

EFFECTS OF SPACE CABIN ATMOSPHERE ON FLAMMABILITY OF FABRICS AND CARBONACEOUS SOLIDS
N64-20746 14-26

METAL FABRIC EXPANDABLE STRUCTURE FOR AEROSPACE APPLICATION N64-23705 16-18

STRUCTURAL BEHAVIOR OF INFLATED FABRIC CYLINDERS UNDER VARIOUS LOADING CONDITIONS
N64-23732 16-33

FABRICATION AND PHYSICAL PROPERTIES OF CARBONIZED AND GRAPHITIZED CLOTH COMPOSITES
WADD-TR-61-72, VOL. IX N64-27334 19-19

FABRY-PEROT INTERFEROMETER
ABSOLUTE DETERMINATION OF ISOTOPE RATIO OF U-235/U-238 WITH PHTOELECTRIC FABRY-PEROT INTERFEROMETER
EUR-307.D N64-14078 05-15

UPPER ATMOSPHERE TEMPERATURE DETERMINATIONS BY FABRY-PEROT PRESSURE SCANNING INTERFEROMETER FROM EMISSION OF OXYGEN ATOMS N64-17005 09-12

USE OF FOCUSED FABRY-PEROT INTERFEROMETER AT MICROWAVE FREQUENCIES FOR PLASMA DIAGNOSTICS
TM-63-210 N64-19083 11-24

FABRY-PEROT INTERFEROMETER WITH ELECTRO-OPTICAL CRYSTALS AS PHASE SHIFTERS AND USED AS WIDEBAND COHERENT LIGHT MODULATOR
ASD-TDR-63-604 N64-20732 13-25

RECORDING OF 6300 ANGSTROM NIGHTGLOW EMISSION USING FABRY-PEROT INTERFEROMETER
AFCRL-64-370 N64-20841 14-12

OBSERVING TWILIGHT BURST OF HELIUM EMISSION WITH FABRY-PEROT STANDARD N64-21887 15-12

MEASUREMENTS OF 5200/02 ANGSTROM /NI/ DOUBLET IN AURORA USING FABRY-PEROT INTERFEROMETER
AFCRL-64-624 N64-29301 21-12

SENSITIVITY OF SCANNING FABRY-PEROT INTERFEROMETER, SPECTROGRAPH DESIGN, AND ION RECOMBINATION STUDIES - AEROSPACE VEHICLE DETECTOR
AD-602812 N64-30186 21-15

OPTICAL PATH IMPERFECTION EFFECT ON FABRY-PEROT MODULATOR PERFORMANCE
AL-TDR-64-141 N64-30762 22-23

SOLID STATE LASER WITH MANY ACTIVE ELEMENTS - OSCILLATION CONDITIONS, ASYMPTOTIC EXPRESSIONS, AND OPTICAL CORRECTION OF INHERENT DEFECTS
AFCRL-64-604 N64-31811 23-25

LIQUID SCATTERING OF LASER EXCITED BEAM
N64-32383 23-23

H-ALPHA LINE EMISSION IN NIGHT AIRGLOW AND HELIUM EMISSION OF NIGHT AIRGLOW WITH FABRY-PEROT INTERFEROMETER AND ELECTRONIC IMAGE CONVERTER
N64-32709 24-12

FABRY-PEROT SPECTROMETER
FABRY-PEROT STANDARD WITH IMAGE AMPLIFIER FOR OBSERVATION OF LOW EMISSION OBJECTS
N64-13689 05-15

SODIUM VAPOR AND SCANNING FABRY-PEROT SPECTROMETER FOR AEROSPACE VEHICLE DETECTION
N64-23010 16-15

FACE
S HEAD
S PLANE

FACE CENTERED CUBIC /FCC/ CRYSTAL
ENERGY OF PACKING DEFECTS OF LEAD IN DEFORMATION OF FACE-CENTERED CUBIC METAL CRYSTALS
N64-10748 02-18

CRYSTAL DISLOCATION, INTERNAL FRICTION, AND DYNAMIC MODULUS OF FACE CENTERED CUBIC METALS AFTER DEFORMATION N64-11630 03-25

DUCTILE BENDING IN FACE CENTERED CUBIC IONIC SINGLE CRYSTALS
NASA-TR-R-186 N64-12108 03-25

THEORETICAL EQUATION OF STATE FOR FACE CENTERED CUBIC METALS
NOLTR-63-108 N64-13815 05-25

TORQUE & ROTATIONAL HYSTERESIS IN FACE-CENTERED-CUBIC SINGLE CRYSTAL COBALT FILMS
AFCRL-64-41 N64-18059 10-25

SURFACE TOPOGRAPHY OF SINGLE CRYSTALS OF FACE-CENTERED-CUBIC, BODY-CENTERED-CUBIC, SODIUM CHLORIDE, DIAMOND, AND ZINC BLENDE STRUCTURES
NASA-TN-D-2275 N64-18960 11-25

ZINC AND HYDROGEN INDUCED EMBRITTLEMENT IN FACE CENTERED CUBIC NICKEL ALLOY
ARL-64-101 N64-27467 19-18

ANISOTROPY AND MAGNETIZATION REVERSAL IN FACE-CENTERED-CUBIC SINGLE CRYSTAL COBALT FILMS
AFCRL-64-420 N64-31986 23-25

STRESS CORROSION CRACKING IN FACE CENTERED CUBIC METALS
AFOSR-J1128 N64-33893 24-18

FACILITY
SA DEEP SPACE INSTRUMENTATION FACILITY /DSIF/
SA HALLAM NUCLEAR POWER FACILITY /HNPF/
SA LAUNCHING FACILITY
SA TEST FACILITY
FACILITIES AT INSTITUTE OF INDUSTRIAL SCIENCE, UNIVERSITY OF TOKYO N64-10301 01-01

AVIATION SAFETY RESEARCH PROJECTS - ACCIDENT PREVENTION, FACILITIES, AIRCRAFT, METEOROLOGY, & INSTRUMENTATION N64-10800 02-01

PLASMA ARC FACILITIES IN UNITED STATES
N64-11890 03-10

FACILITY FOR PREVENTION OF SURFACE CONTAMINATION

OF METALS DURING THERMAL-MECHANICAL CONVERSION TO SHEET AND BAR
MAB-99-LM N64-13950 05-10

ZERO-POWER REACTOR CRITICAL FACILITY KRITO
EUR-498.E N64-16923 09-23

PUK SUBCRITICAL FACILITY OF NERO PROJECT LOW FLUX REACTOR
EUR-499.E N64-16924 09-23

MULTIUSER COMPUTER FACILITY N64-17888 10-20

AERODYNAMIC OPERATION OF HYPERSONIC VON KARMAN GAS DYNAMIC TUNNEL FACILITY
AD-435787 N64-18632 11-16

SPACE RADIO SYSTEMS FACILITY USING MILLIMETER WAVELENGTH REGION - PLANNING & CONSTRUCTION OF ANTENNA AND PERIPHERAL COMPONENTS
SSD-TDR-63-294 N64-18653 11-09

METEOROLOGICAL ROCKET SITE AT MCMURDO, ANTARCTICA AND TEMPERATURE AND WIND PROFILES OBTAINED DURING FIRST ROCKET FIRINGS N64-20775 14-10

SPACE COMMUNICATIONS FACILITY
JPRS-24897 N64-21283 14-08

PACIFIC MISSILE RANGE - FACILITY AND INSTRUMENTATION
PMR-MP-63-7 N64-21999 15-10

NOISE INTENSITY IN SATELLITE CONTROL FACILITY
SSD-TDR-63-293 N64-22379 15-08

INTERFERENCE FACILITY FOR ELECTROMAGNETIC COMPATIBILITY TESTING N64-22831 16-09

HYPERSONIC WIND TUNNEL FACILITIES
TDR-169/3305/-1 N64-22913 16-10

DAVID TAYLOR MODEL BASIN - DESCRIPTION OF FACILITY AND EQUIPMENT
DTMB-1809 N64-24195 16-10

RADAR CROSS SECTION MEASUREMENT FACILITY
N64-24730 17-08

RANGE FACILITY FOR MEASURING RADAR CROSS-SECTIONS OF LOW DENSITY SUPERSONIC PLASMA STREAMS
N64-24733 17-08

VERTICAL RADAR CROSS-SECTION RANGE
N64-24734 17-10

RADAR REFLECTIVITY MEASUREMENT FACILITY
N64-24735 17-10

MICROWAVE REFLECTIVITY FACILITY
N64-24736 17-10

RADAR BACKSCATTER RANGE N64-24738 17-08

RADAR SCATTERING RANGE FACILITY
N64-24739 17-08

EXPERIMENTAL REFLECTIVITY FACILITY
N64-24740 17-10

RADAR SCATTERING RANGE FACILITY
N64-24741 17-10

CROSS SECTION RANGE RADARS N64-24744 17-08

STATIC RADAR REFLECTIVITY MEASUREMENT FACILITIES
N64-24746 17-10

RADAR ECHOING AREA RANGES N64-24749 17-08

RADAR TARGET SCATTER SITE RADAR CROSS SECTION MEASUREMENT RANGE N64-24750 17-10

RADAR REFLECTIVITY MEASUREMENT FACILITIES AND TECHNIQUES N64-24754 17-10

RADAR CROSS SECTION RANGE N64-24755 17-10

SHORT-PULSE, OBLIQUE RADAR CROSS SECTION RANGE
N64-24756 17-10

FAST NEUTRON SPECTRUM AND DOSIMETRY OF REACTOR MEDICAL THERAPY FACILITY BEAM
MITNE-47 N64-25472 17-14

ULTRAHIGH SPEED CAVITATION TUNNEL
N64-25734 17-11

FACILITY FOR OBSERVING GEOMAGNETIC MICROPULSATIONS
AD-439884 N64-25884 18-08

UNITARY COMPRESSOR-DRYER SYSTEM OF WIND TUNNEL
NAL-TN-AE-19-63 N64-26537 18-10

HANDBOOK OF LOCATION AND FUNCTION OF NASA FACILITIES N64-28919 20-10

INSTRUMENTATION, TEST PROGRAMS, FACILITY STATUS, AND CONE LAUNCH DEVELOPMENT PROGRAM
BSR-984 N64-30020 21-15

HISTORY, FACILITIES, & RESEARCH PROJECTS OF ORGANIZATION FOR STUDY OF AERODYNAMICS, MATERIALS SCIENCE, FLIGHT MECHANICS, STRUCTURES, COMBUSTION, PROPULSION, AND MATHEMATICS N64-30477 22-10

CAPABILITIES AND LIMITATIONS OF HYPERSONIC SHOCK TUNNEL FACILITIES AND INSTRUMENTATION
NOLTR-63-259 N64-31670 23-10

AUTOMATED FACILITY FOR STUDY OF FORCED CHOICE SIGNAL DETECTION
ESD-TDR-64-383 N64-32942 24-10

ELECTRON MICROSCOPE FACILITIES AND RESEARCH PROGRAM IN MOLECULAR BIOLOGY
NASA-CR-59151 N64-33277 24-14

SURVEY OF PROTON IRRADIATION FACILITIES
SAM-TDR-64-16 N64-33647 24-10

FACTOR
S AGE FACTOR
S DAMPING FACTOR
S HUMAN FACTOR
S LOAD FACTOR
S PH FACTOR
S SAFETY FACTOR
S SEX FACTOR
S TIME FACTOR

FACTORIAL DESIGN
APPLICATIONS OF CALCULUS FOR FACTORIAL ARRANGEMENTS - TWO WAY ELIMINATION OF HETEROGENEITY
MRC-410 N64-12331 03-20

STATISTICAL ANALYSIS OF EXPERIMENTS INCLUDING FACTORIAL DESIGNS
SU-56 N64-19392 12-20

FADING
FREQUENCY AND DURATION OF FADINGS AT TROPOSPHERIC SCATTER INTERVALS
E-T-R-G-63-4 N64-12278 03-09

GUIDANCE DATA ATTENUATION BY EXHAUST PLUMES & PROBLEM OF MAINTAINING RELIABLE GROUND-MISSILE COMMUNICATIONS
RE-TR-63-61 N64-13639 05-08

RAYLEIGH FADING AND NOISE BACKGROUND ASSOCIATED WITH PULSE & FREQUENCY SHIFT KEYED DATA TRANSMISSION SYSTEMS
CR-63-419-12 N64-19125 11-12

SELF-TUNING ANTENNA TO PREVENT SIGNAL LOSS DUE TO SEVERE ENVIRONMENT DURING MISSILE FLIGHT
RG-TR-64-9 N64-29302 21-08

FARADAY FADINGS OF SATELLITE SIGNALS TO DETERMINE QUANTITY OF ELECTRONS IN VERTICAL COLUMN OF UNIT CROSS SECTION
JPRS-26345 N64-29540 21-12

FAILURE
SA FRACTURE
SA RUPTURE

CF CRACK
CF FATIGUE
CF MATERIAL TESTING
CF MECHANICAL PROPERTY
CF STRAIN
CF STRESS
COMMAND SYSTEM MALFUNCTION OF TELSTAR SATELLITE DUE TO TRANSISTOR SURFACE DAMAGE IN REDUNDANT COMMAND DECODER N64-10897 02-08

ELECTRON MICROPHOTOGRAPHIC STUDY OF BRITTLE FRACTURE & FAILURE PROCESS IN STEEL AND IRON N64-11147 02-18

ELIMINATION OF FAILURE MECHANISMS BY RESIDUAL GASES IN TRAVELING-WAVE TUBES
RADC-TDR-63-423 N64-11542 03-09

RELIABILITY AND FAILURE OF DIGITAL COMPUTER AND COMPONENTS
SSD-TDR-63-150 N64-12183 03-20

PHYSICAL MECHANISMS CAUSING RESISTANCE TO CHANGE WITH TIME AND TEMPERATURE - FAILURE THEORY
RADC-TDR-63-449 N64-12212 03-18

HIGH STRENGTH STEEL - HYDROGEN CAUSED EMBRITTLEMENT AND FAILURE
DMIC-MEMO-180 N64-12309 03-18

FAILURE MECHANISMS IN SILICON SEMICONDUCTORS
RADC-TDR-63-443 N64-12590 04-25

DELAYED FAILURE IN STRUCTURAL MATERIALS WETTED BY LIQUID METALS AND UNDER STATIC LOADING CONDITIONS
IITRI-B183-14 N64-12872 04-18

RUPTURE BEHAVIOR OF ELASTOMERS - EFFECT OF VARIANCE ON FAILURE ENVELOPE RESOLUTION AND EFFECT OF CROSSLINK DENSITY ON CURVE SHAPE AND LOCATION
NASA-CR-55213 N64-13160 04-07

FAILURE MODES OF FILAMENT REINFORCED MATERIALS INCLUDING INFLUENCE OF CONSTITUENT GEOMETRY AND PROPERTIES
NASA-CR-55192 N64-13181 04-34

FAILURE TESTING OF THERMIONIC POWER CONVERTER
NASA-CR-55211 N64-13197 04-06

HYDROSTATIC PRESSING VESSEL FAILURE DUE TO CRACK FORMATION
NASA-RP-92 N64-13198 04-17

RELIABILITY OF COMPONENTS IN SEQUENCE WITH SENSING, SWITCHING, AND SHELF-LIFE FAILURES
REPT.-6121-7531-TU-000 N64-13371 04-20

FLUTTER ANALYSIS OF FAILURE AND VIBRATIONAL MODE FOR AIRCRAFT N64-13552 05-01

AIRCRAFT ENGINE FLUTTER FAILURE DUE TO INSTABILITY OF CONTROL SURFACE MASS DISTRIBUTIONS N64-13559 05-33

LOW CYCLE FATIGUE FAILURE OF PRESSURE VESSELS - APPLICATION OF FRACTURE MECHANICS DATA
AD-422404 N64-13606 05-18

FAILURE DETERMINATION OF VAPOR-FILLED THERMIONIC CONVERTER WITH URANIUM-ZIRCONIUM CARBIDE EMITTING SURFACE
RTD-TDR-63-4190 N64-13755 05-06

FAILURE MECHANISMS OF THIN FILM PLATES DUE TO TEMPERATURE, HUMIDITY, AND ELECTRICAL STRESSES
RADC-TDR-63-474 N64-13785 05-25

DELAYED FAILURE IN PRESENCE OF LOW MELTING LIQUID METALS
ARF-B183-13 N64-13897 05-18

SELF-REPAIR TECHNIQUES FOR FAILURE-FREE SYSTEMS
NASA-CR-55267 N64-13916 05-20

PLASTIC DEFORMATION AND FAILURE OF SILVER-STEEL FILAMENTARY COMPOSITE MATERIALS
ASRL-TR-94-5 N64-14002 05-33

ACCELERATION & RETARDATION OF DELAYED FAILURE IN BERYLLIUM-COPPER WETTED WITH MERCURY
IITRI-B183-15 N64-14358 06-18

ALKALINE BATTERY EVALUATION - CYCLE LIFE PERFORMANCE & FAILURE ANALYSIS
RTD-TDR-63-4144 N64-14962 06-06

MECHANICAL RESPONSE AND FAILURE IN SOLID PROPELLANT STRUCTURAL CHARACTERISTICS
LPC-618-P-10 N64-15691 07-26

FAILURE RATES AND MODES OF FAILURE FOR NICKEL-CADMIUM BATTERIES
NASA-CR-55716 N64-15892 07-06

FAILURE-CORRECTING TECHNIQUES APPLIED TO AUTOMATIC FLIGHT CONTROL SYSTEMS
REPT.-63APJ13 N64-17149 09-22

MAXIMUM OPERATING FAILURE OF GERMANIUM EPITAXIAL MESA TRANSISTOR
QPR-5 N64-17328 09-09

HAZARDS OF MANNED SPACE FLIGHT DUE TO TECHNICAL FAILURE OR MICROMETEOR IMPACT N64-17550 09-16

ALUMINUM OXIDE CRUCIBLE FAILURE IN PRESENCE OF NICKEL-COPPER-IRON ALLOYS
RTD-TDR-63-4159 N64-18024 10-19

SURFACE PHENOMENA LEADING TO SEMICONDUCTOR DEVICE FAILURE AND LATERAL THERMAL INSTABILITIES IN POWER TRANSISTORS
RADC-TDR-64-6 N64-18255 10-25

STATISTICAL PROBABILITY OF FATIGUE FAILURE THROUGH CRACK PROPAGATION
NASA-CR-53516 N64-19257 11-33

DYNAMIC RESPONSE AND FAILURE MECHANISMS IN SOLID PROPELLANTS
LPC-618-F N64-19651 12-26

DELAYED FAILURE IN HIGH STRENGTH METALS WETTED BY EMBRITTLING LIQUID METALS
IITRI-B183-16 N64-20566 13-18

PHYSICS OF FAILURE IN ELECTRONIC COMPONENTS AND EQUIPMENT N64-20967 14-09

TEMPERATURE SENSITIVITY OF SEMICONDUCTOR FAILURE RATES N64-20970 14-20

STRESS TO STRENGTH RELATIONSHIP IN TESTS TO FAILURE FOR COMPONENT RELIABILITY ESTIMATES N64-20972 14-33

ACCELERATED AND CONSTANT STRESS TESTING FOR FAILURE ANALYSIS OF FILM RESISTORS AND PLANAR TRANSISTORS N64-20979 14-09

TEST METHODS FOR INDICATING SOURCES OF FAILURE IN MICROELECTRONIC DEVICES N64-20981 14-09

CORRELATION OF BURST NOISE AND PARAMETER DRIFT IN SEMICONDUCTORS FOR FAILURE PREDICTION N64-20983 14-09

ELECTRICAL AND MECHANICAL FAILURE ANALYSIS FOR SEMICONDUCTOR RELIABILITY N64-20985 14-09

DEGRADATION RATE IN GALLIUM ARSENIDE TUNNEL DIODES FOR FAILURE PREDICTION N64-20986 14-25

RESIDUAL GAS EFFECTS ON DEGRADATION AND FAILURE IN TRAVELING-WAVE TUBES N64-20988 14-09

THERMODYNAMICS OF FAILURE AND AGING N64-20989 14-13

FLOWGRAPH TECHNIQUES IN RELIABILITY PROBLEMS - ERROR AND FAILURE ANALYSIS N64-20990 14-20

FAILURE IN SILICON TRANSISTORS DUE TO FORMATION OF GOLD-ALUMINUM-SILICON COMPLEX AT LEADS N64-20991 14-25

FAILURE MECHANISMS IN GALLIUM ARSENIDE TUNNEL

DIODES N64-21000 14-09

FAILURE RATE AND OPERATING LIFE DATA ON ELECTRONIC COMPONENTS, EQUIPMENT, AND SYSTEMS FOR RELIABILITY PREDICTION
D2-22571 N64-21376 14-17

LOW CYCLE FATIGUE FAILURES STUDY USING APPLIED FRACTURE MECHANICS
D2-23141 N64-21440 14-33

FAILURE MECHANISMS CAUSED BY RESIDUAL GASES IN TRAVELING WAVE TUBES
RADC-TDR-64-107 N64-21459 14-09

REACT STUDY OF GUIDANCE AND CONTROL FAILURES
T2-3209-5 N64-21685 15-06

MECHANICAL PROPERTIES OF GRAPHITE FOR USE IN STRESS ANALYSIS OF X-20 NOSE CAP GRAPHITE STRUCTURAL SHELL
REPT.-311.24 N64-22254 15-19

DELAYED FAILURE CHARACTERISTICS OF MARAGING STEELS
SM-43114 N64-22974 16-18

IMPROVEMENT OF COMPONENT RELIABILITY IN MISSILES BY INDUCED FAILURE N64-23164 16-34

RELIABILITY AND FAILURE ANALYSIS OF ELECTRIC MOTORS
FTD-TT-63-35/1&2 N64-23414 16-09

OPERATIONAL FAILURES OF LIQUID PROPELLANT ROCKET ENGINES
FTD-TT-63-357/1&2 N64-23426 16-26

PILOT PERFORMANCE DURING MERCURY SYSTEMS FAILURE
AIAA PAPER-64-222 N64-23609 16-14

FAILURE RATE OPTIMIZATION IN SILICON TRIPLE DIFFUSED TRANSISTORS
REPT.-03-64-15 N64-25588 17-09

FAILURE RATE AND PERFORMANCE RELIABILITY OF CORNING GLASS TIN-OXIDE RESISTOR
AD-438882 N64-25988 18-09

CYCLE-LIFE PERFORMANCE AND FAILURE ANALYSIS OF ALKALINE NICKEL-CADMIUM BATTERY
APL-TDR-64-76 N64-26246 18-06

CRACK FORMATION AND FAILURE PROCESSES IN LITHIUM FLUORIDE SINGLE CRYSTALS
MET-E-1160-0464-QP1 N64-26427 18-33

ACTIVATION ENERGY INDEX AS DESIGN FIGURE OF MERIT FOR GO, NO-GO SYSTEM
DOUGLAS PAPER-1874 N64-26501 18-17

FAILURE MECHANISMS AT METAL-DIELECTRIC INTERFACES
RADC-TDR-64-138 N64-26918 18-25

COMPONENT RELIABILITY AND FAILURE OF MARINER R SPACECRAFT SYSTEMS
NASA-CR-58070 N64-27801 19-32

AUTOMATIC INDICATION OF OPERATING FAILURES OF DISCRETE SYSTEMS N64-29136 21-15

MATERIAL FAILURES IN ULTRAHIGH TEMPERATURE MAGNETOPLASMADYNAMIC LOOP N64-30438 22-18

RELIABILITY AND FAILURE OF QUARTZ CRYSTALS
REPT.-4 N64-31129 22-17

WIRE WOUND POTENTIOMETER FAILURES IN FIRE CONTROL COMPUTER - CAUSES AND PERFORMANCE STANDARDS N64-31506 23-15

SLOW MALFUNCTION DETECTION METHODS IN GEMINI LAUNCH VEHICLE DURING FLIGHT
LV-307A N64-31676 23-10

RANDOM VIBRATION IN AEROSTRUCTURES AND RELATION TO MECHANICAL FAILURE
AD-447952 N64-32361 23-33

FAILURE OF QUARTZ FREQUENCY CONTROL CRYSTALS
QPR-2 N64-32556 23-25

PERFORMANCE IMPROVEMENT OF SPHERICAL ROCKET MOTOR USING HIGH ENERGY POLYURETHANE PROPELLANT
MPR-17 N64-32676 23-27

MECHANICAL, ELECTRICAL, AND FAILURE BEHAVIOR OF GUM RUBBER VULCANIZATES, AND DEVELOPMENT OF CROSS LINKED STANDARD POLYMER
MATSCIT-PS-64-2 N64-33325 24-19

STABILITY, FAILURE RATE, ACCELERATION, AND MECHANICAL RUGGEDNESS OF SILICON PLANAR EPITAXIAL TRANSISTOR
AD-607294 N64-33555 24-17

FAILURE MODE

FAILING LOAD AND FAILURE MODE FOR ALUMINUM SHEET
A237 N64-13247 04-18

DYNAMIC RESPONSE AND FAILURE MECHANISMS IN COMPOSITE SOLID PROPELLANTS
LPC-618-P-11 N64-14820 06-24

FAILURE MECHANISM STUDY USING NICKEL ALLOY FILM RESISTOR
RADC-TDR-63-431 N64-15074 07-09

FAILURE MODE ANALYSIS OF AMMONIA BATTERY SYSTEM
REPT.-13 N64-15766 07-06

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TRA-873-74, REV. N64-17275 09-17

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NASA-CR-33 N64-17990 10-19

VIBRATION QUALIFICATION TESTS AND PROBABILITY OF FAILURE N64-20263 13-13

FAILURE MECHANISMS IN METAL FILM RESISTORS N64-20971 14-09

DIFFUSION FAILURE MODES IN STRESSED TANTALUM AND TANTALUM OXIDE THIN FILM CAPACITORS N64-20973 14-25

DISLOCATION DISTRIBUTIONS IN SILICON SUBSTRATE STRUCTURE FOR MATERIAL FAILURE ANALYSIS N64-20975 14-25

FAILURE MECHANISMS AT INSULATOR-CONDUCTOR JUNCTION OF ANODIZED TANTALUM AND CERAMIC BARIUM TITANATE CAPACITORS N64-20976 14-09

SILICON TRANSISTOR FAILURE MECHANISMS CAUSED BY SURFACE CHARGE SEPARATION N64-20977 14-25

GENERATED VOLTAGE FAILURE MODE IN CAPACITORS OF THIN FILM SANDWICH CONSTRUCTION N64-20978 14-25

COMPARISON OF ACCELERATED AND NORMAL STRESS FAILURE MODES OF GERMANIUM TRANSISTORS N64-20980 14-09

LOCALIZED THERMAL EFFECTS IN SILICON POWER TRANSISTORS FOR FAILURE MODE STUDY N64-20984 14-09

RELIABILITY AND FAILURE MECHANISMS OF GASEOUS OPTICAL MASERS N64-20992 14-25

FAILURE MODES IN SOLID TANTALUM CAPACITORS N64-20996 14-09

FAILURE MODES IN INTEGRATED AND DISCRETE COMPONENT MICROELECTRONIC CIRCUITS N64-20997 14-09

X-RAY RADIOGRAPHY FOR OBSERVATION OF FAILURE MODES IN SEMICONDUCTOR DEVICES N64-20998 14-15

FAILURE MODES IN ELECTRONIC EQUIPMENT AND CORRECTIVE MEASURES FOR RELIABILITY IMPROVEMENT
N64-20999 14-09

FAILURE MODES IN MICROELECTRONICS - RELIABILITY IN SOLID STATE PHYSICS
RADC-TDR-64-61 N64-23953 16-09

MICROELECTRONIC FAILURE MECHANISMS
RADC-TDR-64-125 N64-23957 16-09

SILICON SEMICONDUCTOR FAILURE MECHANISMS
RADC-TDR-64-153 N64-23960 16-09

PREDICTION OF BUCKLING OR COLLAPSE FAILURE MODE IN PLASTIC DEFORMATION OF CYLINDRICAL SHELLS
TR-4 N64-24392 17-33

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LV-304, REV. A N64-27192 19-06

FAILURE MODES AND SCREENING TECHNIQUES FOR SILICON PLANAR TRANSISTORS MANUFACTURED BY DIFFUSION PROCESSES
NASA-CR-56945 N64-27309 19-09

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NASA-TN-D-2459 N64-27926 20-18

FAILURE CRITERIA FOR CAST DOUBLE BASE PROPELLANT
TR-64/17 N64-28064 20-26

AIRING
CF LANDING GEAR
AXIAL COMPRESSION TEST OF EFFECT OF HIGH VELOCITY AND HIGH TEMPERATURE AIR ON WHEEL BUMP FAIRING MATERIALS
A487 N64-17145 09-02

AITH 7
FLASHING BEACON FOR FAITH 7 /MA-9/ VISUAL PERCEPTION TEST
NASA-TN-D-2377 N64-26415 18-06

ALLOUT
SA RADIOACTIVE FALLOUT
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JPRS-22669 N64-13162 04-15

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USNRDL-TR-715 N64-17785 09-23

EFFECT OF LOCAL WINDS ON FALLOUT
REPT.-1 N64-26317 18-21

FALLOUT MEASUREMENTS USING PLUTONIUM AND URANIUM TRACERS IN HIGH EXPLOSIVE DETONATIONS UNDER FIFTEEN FOOT GRAVEL COVERINGS
SC-R-64-127 N64-26696 18-23

FALLOUT RADIATION ENERGY DISTRIBUTION AS FUNCTION OF ALTITUDE
FZK-187 N64-27864 19-23

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URS-640-4 N64-27921 20-15

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NYO-4700, SUPPL. 1 N64-31320 22-07

FAN
S BLOWER
S COMPRESSOR
TIP TURBINE-DRIVEN VTOL TURBOFAN
NRC-7761 N64-25130 17-04

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N64-27070 19-04

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ARC-CP-690 N64-13387 04-04

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N64-17014 09-04

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DME/NAE-1963/2/ N64-19916 12-02

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NASA-TN-D-2368 N64-28323 20-04

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TR-8 N64-22524 15-23

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AD-423641 N64-22547 15-08

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U-2630 N64-28013 20-11

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NASA-TN-D-2105 N64-32835 24-08

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NRE-64/1 N64-33479 24-23

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N64-29478 21-23

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N64-29479 21-23

FAR INFRARED HIGH RESOLUTION FOURIER TRANSFORM INTERFEROMETRY N64-29480 21-23

FAR INFRARED SPECTROSCOPY OF SOLIDS
N64-29481 21-23

FAR INFRARED MAGNETO-OPTICAL STUDIES OF SEMICONDUCTORS N64-29482 21-23

SIZE AND SHAPE EFFECTS ON LATTICE VIBRATION SPECTRUM AND RESULTING FAR INFRARED ABSORPTION
N64-29483 21-23

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ML-TDR-64-158, PT. 1 N64-30931 22-07

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NASA-CR-59302 N64-33694 24-25

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NASA-CR-56884 N64-27888 20-15

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AERE-R-4341 N64-15395 07-25

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AFCRL-64-266 N64-25368 17-12

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NASA-CR-56939 N64-29197 21-12

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JPRS-26345 N64-29540 21-12

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NASA-TT-F-8965 N64-30858 22-28

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SATELLITE FOR EVALUATION OF SOLAR FLARE HAZARDS FOR NEAR-EARTH MANNED SPACE MISSIONS - FARO SATELLITE
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FAST NEUTRON
SA THERMAL NEUTRON
CF ELEMENTARY PARTICLE
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WAPD-TM-272 N64-10215 01-20

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JPRS-21521 N64-10326 01-16

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EUR-289.E N64-13234 04-23

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EUR-490.E N64-14709 06-23

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EUR-549.F N64-16928 09-23

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EUR-530.F N64-18151 10-23

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FTD-TT-63-977/1&2&4 N64-19751 12-23

FAST REACTOR TEST /FARET/ PROGRAM
ANL-6708 N64-20667 13-23

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ACNP-64503 N64-22231 15-23

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CEND-200, VOL. 1 N64-25560 17-23

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GEAP-4418, VOL. 1 N64-25563 17-23

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ORNL-3645 N64-26798 18-17

DOPPLER EFFECT MEASUREMENTS, FAST POWER BREEDER REACTOR, AND SODIUM VOID COEFFICIENTS
ANL-6838 N64-32300 23-23

FASTENER
SA HOLDER
SA JOINT
SA RIVET
SA SOLDER
SA TAPE
CF FITTING
CORROSION PROBLEMS ASSOCIATED WITH USE OF TITANIUM FASTENERS TO CONNECT ALUMINUM COMPONENTS
NASA-TM-X-51167 N64-11381 02-07

METALWORKING - FASTENERS, BOLTS, & RIVETS FROM HEAT RESISTANT STEELS N64-17086 09-17

EFFECT OF SALT SPRAY ON CORROSION OF FASTENERS
A734 N64-24208 16-17

REFRACTORY MATERIALS FOR COATINGS AND FASTENERS AND COATED FASTENER OF TITANIUM-ZIRCONIUM-MOLYBDENUM SYSTEM ALLOY N64-25045 17-17

COLUMBIUM ALLOY THREADED FASTENERS WITH OXIDATION RESISTANT METALLIC COATINGS
PR-3 N64-32655 23-17

EVALUATION OF FASTENERS AND FASTENING TECHNIQUES UNDER STATIC LOADING CONDITIONS FOR ELECTRONIC EQUIPMENT
REPT.-3 N64-32687 23-17

FATIGUE
SA CRACK
SA FRACTURE
SA METAL FATIGUE
SA RUPTURE
CF FAILURE
CF MATERIAL TESTING
CF MECHANICAL PROPERTY
CF STRAIN
CF STRESS
CONTROL OF ACOUSTICALLY INDUCED STRUCTURAL FATIGUE
EWR-73-63 N64-10159 01-33

FATIGUE STRENGTH OF MEMBERS CONTAINING CRACKS
WAPD-T-1495 N64-10170 01-33

ELASTOHYDRODYNAMIC LUBRICATION IN ROLLING CONTACT BEARING FATIGUE
NASA-RP-43 N64-10175 01-33

THEORY OF ELASTICITY SOLUTIONS FOR STRESS FIELD AT CRACK TIP - ELASTIC-PLASTIC FATIGUE TRANSFORMATION AND CRACK PROPAGATION
AGARD-412 N64-10258 01-33

EXO-ELECTRON EMISSION FROM FATIGUING ALUMINUM
NASA-CR-52683 N64-11228 02-18

TENSION FATIGUE TESTING OF HIGH STRENGTH STEEL
ASD-TDR-63-645 N64-11442 03-18

ROLLING CONTACT FATIGUE PROCESS IN CRYSTALLIZED GLASS CERAMICS
NASA-TN-D-2082 N64-11557 03-19

FATIGUE PROPERTIES OF ALUMINUM AND TITANIUM ALLOYS AT LOW TEMPERATURES
NASA-CR-55027 N64-11818 03-18

TENSILE, RUPTURE, CREEP, & FATIGUE TESTS OF NICKEL ALLOYS
AD-422498 N64-12039 03-18

ACOUSTIC FATIGUE DESIGN CHARTS FROM AIRCRAFT STRUCTURE TESTING
ASD-TDR-63-820 N64-12612 04-33

SPOT WELDING OF PATCHES OF SILVER-LITHIUM & COPPER BRAZING ALLOYS FOR STATIC & SHEAR FATIGUE STRENGTH
FGT-2999 N64-12648 04-18

CORROSION FATIGUE TEST OF SURFACE-TREATED HIGH STRENGTH STEELS
NEL-102 N64-13342 04-18

LOW CYCLE FATIGUE OF STRUCTURAL MATERIALS IN BIAXIAL STRESS FIELD
RTD-TDR-63-4094 N64-13817 05-18

TENSILE, RUPTURE, CREEP, FATIGUE, AND OTHER MECHANICAL PROPERTIES OF INCONEL X
QR-7 N64-13895 05-20

TEMPERATURE EFFECT ON FATIGUE BEHAVIOR OF MATERIAL FOR SUPERSONIC TRANSPORT
LR-17129 N64-14009 05-33

PHYSIOLOGICAL FACTOR OF ACOUSTIC FATIGUE IN HEARING PURE TONES
CARI-63-19 N64-14410 06-16

CREEP-FATIGUE INTERACTIONS UNDER CYCLIC LOADING CONDITIONS
ASD-TDR-63-644 N64-14468 06-33

FATIGUE, LOADING, AND PROBABLE DENSITIES OF FLEXIBLE BARS
DVL-249 N64-15025 07-33

FATIGUE IN ROLLING-ELEMENT BEARINGS N64-15238 07-33

FATIGUE TESTING DATA ON ALUMINUM ALLOY FOR EVALUATING METHODS OF ASSESSING CUMULATIVE DAMAGE
FTDM-2892 N64-15573 07-18

FATIGUE PROCESSES IN MAGNESIUM OXIDE SINGLE CRYSTALS
AD-429227 N64-15956 07-25

INFLUENCE OF LUBRICATION ON ENDURANCE, WEAR, AND CONDUCTIVITY OF ROLLING CONTACTS
AL64T003 N64-16087 07-17

INFLUENCE OF LUBRICATION ON ENDURANCE, WEAR, AND CONDUCTIVITY OF ROLLING CONTACTS
AL64T003 N64-16087 07-17

FATIGUE TEST ON UNNOTCHED SPECIMENS OF ALUMINUM ALLOY AND STAINLESS STEEL
MS-108 N64-16200 08-18

X-RAY DIFFRACTION OF FATIGUE MECHANISM OF FERROUS AND NONFERROUS METALS AND ALLOYS N64-16223 08-23

FATIGUE OF COPPER SINGLE CRYSTALS
RAC-921-2 N64-16659 08-29

HIGH TEMPERATURE STRESS AGING ON FATIGUE STRENGTH OF RIVETED LAP JOINTS N64-16914 09-18

FATIGUE STRENGTH OF PHENOLIC LAMINATES UNDER CYCLIC LOADING
FPL-027 N64-16986 09-19

FATIGUE TESTING OF CIRCULAR CYLINDER TO FAILURE UNDER BENDING LOADS
NASA-TN-D-2200 N64-17772 09-33

FATIGUE TEST OF LAMINATED REINFORCED PLASTIC MATERIALS UNDER AXIAL LOAD
ASD-TDR-63-768 N64-17845 10-33

FATIGUE AND CRACK PROPAGATION IN ALUMINUM, AND DISLOCATION MECHANISM IN COPPER-ZINC ALLOYS
WADD-TR-60-313, PT. 2 N64-17850 10-33

RANDOM PROCESS THEORY - PEAK PREDICTION, STRUCTURAL FATIGUE DAMAGE, AND CATASTROPHIC STRUCTURAL FAILURE
NASA-CR-33 N64-17990 10-33

DURABILITY, CREEP, AND THERMAL FATIGUE OF HEAT RESISTANT & REFRACTORY MATERIALS SUCH AS CERMETS & ALLOYS
JPRS-24166 N64-18296 10-18

PREDICTING RANDOM FATIGUE CURVE FROM SINE FATIGUE CURVE N64-18558 11-33

SONIC FATIGUE PREVENTION BY USE OF DESIGN CHARTS, ADJUSTING STRUCTURAL FREQUENCIES, SIREN TESTS, SCALE MODELS, AND RANDOM FATIGUE CURVES
ASD-TDR-63-704 N64-18694 11-33

METAL FATIGUE OF AIRCRAFT STRUCTURES DUE TO TURBULENT BOUNDARY LAYER PRESSURE FLUCTUATIONS AND BOUNDARY LAYER NOISE
AGARD-468 N64-18725 11-11

CYCLING FATIGUE BEHAVIOR OF STAINLESS STEEL AND TITANIUM ALLOY FOR SUPERSONIC TRANSPORT
NASA-CR-28 N64-18726 11-18

FATIGUE TESTS OF VARIOUS ALUMINUM ALLOY RIVETED JOINTS
RES. REPT. 11 WGLR-PAPER-34 N64-19233 11-18

MAGNETOSTRICTIVE RESPONSE OF HIGH STRENGTH STEELS TO CYCLIC FATIGUE TESTING
RA-254/63 N64-19318 12-18

FATIGUE TESTS AND CRACK PROPAGATION OF ALLOY A.2GN AT VARIOUS FREQUENCIES AND TEMPERATURES
ICAF-231 N64-19543 12-33

FATIGUE CRACK PROPAGATION IN REDUNDANT STRUCTURES DUE TO RANDOM LOADING
NASA-CR-53506 N64-19982 12-33

METAL FATIGUE LIMIT AND RATE OF CRACK PROPAGATION
NASA-CR-53632 N64-20001 13-33

TENSILE, IMPACT, AND AXIAL FATIGUE PROPERTIES OF STEEL B-58 WING PYLON BOXES AFTER REPAIR WELDING
FGT-2956 N64-20038 13-18

HIGH CYCLE AND LOW CYCLE FATIGUE TESTS AND TENSILE TESTS OF 4330-V STEEL ALLOY FORGINGS
FTDM-3157 N64-20056 13-18

EFFECTS OF WELDED CONSTRUCTION ON FATIGUE STRENGTH OF NACELLE FRAMES OF B-58 AIRCRAFT
FZM-4-1147 N64-20074 13-18

CORRELATION OF SINUSOIDAL RESONANCE DWELL AND INCREASED-TIME SWEEP CYCLING TESTS - FATIGUE TESTING N64-20252 13-33

EFFECT OF SPECIMEN SIZE ON FATIGUE CRACK-STRENGTH OF CYLINDRICAL SPECIMENS OF HEAT-TREATED 4340 STEEL
NRL-6012 N64-20266 13-18

MECHANISMS OF METAL FATIGUE
RAC-921-3 N64-20417 13-18

FATIGUE TESTS OF STAINLESS STEEL AND TITANIUM-ALUMINUM ALLOY SHEETS AT VARIOUS TEMPERATURES
NASA-CR-23 N64-21251 14-18

LOW CYCLE FATIGUE FAILURES STUDY USING APPLIED FRACTURE MECHANICS
D2-23141 N64-21440 14-33

NONDESTRUCTIVE EVALUATION OF METAL FATIGUE
AFOSR-64-0668 N64-21441 14-33

EFFECT OF CLOSURE WELD CONFIGURATION ON FATIGUE STRENGTH OF OMEGA SEALS
KAPL-2000-21 N64-21740 15-18

FATIGUE DESTRUCTION OF POLYAMIDE RESINS UNDER CONTACT STRESSES
FTD-TT-64-126/1&2&4 N64-21972 15-07

BENDING & AXIAL STRESS FATIGUE STRENGTH OF ALUMINUM-MAGNESIUM-SILICON ALLOY N64-21987 15-33

CORROSION FATIGUE PROPERTIES OF STRUCTURAL MATERIALS
ADR-02-09-64.1 N64-22415 15-18

NOTCH AND CRACK STRENGTH OF METALS UNDER STATIC OR FATIGUE LOADING
SAE PAPER-843C N64-23339 16-33

METAL FATIGUE AND CYCLIC STRESS
JPRS-25124 N64-23447 16-33

FATIGUE LIFE & LOAD CHARACTERISTICS OF NEEDLE ROLLER BEARINGS UNDER OSCILLATING LOAD CONDITIONS
FIL-F-A1913 N64-23601 16-33

X-RAY INVESTIGATION OF FATIGUE MECHANISM OF ANNEALED AND PREHARDENED STEEL N64-23832 16-33

X-RAY INVESTIGATION OF FATIGUE OF SINGLE CRYSTALS OF ALUMINUM AT NORMAL AND LOW TEMPERATURES N64-23833 16-33

X-RAY INVESTIGATION OF FATIGUE MECHANISM IN SINGLE CRYSTALS OF METALS AT NORMAL AND LOW TEMPERATURES N64-23834 16-33

X-RAY INVESTIGATION OF DISTORTION OF CRYSTALLINE STRUCTURE OF STEEL AND RED COPPER SUBJECTED TO FATIGUE TESTING N64-23835 16-33

X-RAY INVESTIGATION OF EFFECTS OF SECOND AND THIRD KIND DURING FATIGUE TESTING OF SILICON STEEL N64-23836 16-33

FLOW AND FATIGUE CHARACTERISTICS OF DUCTILE METALS UNDER CYCLIC PLASTIC STRAINING
NASA-CR-56548 N64-24104 16-18

TENSILE STRENGTH AND FATIGUE TESTS OF 18 PERCENT NICKEL MARAGING STEEL AND 9 PERCENT NICKEL STEEL N64-24365 17-18

TENSILE STRENGTH AND FATIGUE TESTS AND STRESS CORROSION TESTS OF BOLTS AND OTHER SAMPLES OF 18 PERCENT NICKEL MARAGING STEEL N64-24371 17-18

FATIGUE AND OXIDATION OF HIGH TEMPERATURE ALLOYS
JPRS-24826 N64-24530 17-18

CRYSTAL STRUCTURE CHANGE DURING THERMAL FATIGUE OF ALLOY N64-24532 17-18

LOW CYCLE FATIGUE CHARACTERISTICS OF ULTRAHIGH STRENGTH STEELS
R-1707 N64-24847 17-18

ACOUSTIC ENVIRONMENT OF SONIC FATIGUE MAIN TEST CHAMBER
FDL-TDR-64-26 N64-24945 17-23

LOW CYCLE FLEXURAL FATIGUE OF BOTH FERROUS AND NONFERROUS ALLOYS FOR SUBMARINES
NAVENGRXSTA-91-197D N64-24987 17-18

AXIAL LOAD FATIGUE PROPERTIES OF STAINLESS STEEL
NASA-TN-D-2358 N64-25052 17-18

VIBRATION DAMPING AND ADHESIVE STRESS REDUCTION FOR ALLEVIATION OF SONIC FATIGUE
LB-31451 N64-25896 18-19

STRESS LEVEL PROPAGATION OF FATIGUE CRACK THROUGH ROTATING CANTILEVER SPECIMEN
ARL/SM-283 N64-26471 18-18

FATIGUE PROPERTIES OF TWO CASTING ALUMINUM ALLOYS CONTAINING MICROPOROSITY

ARL/SM-282 N64-26627 18-18

DISLOCATION REARRANGEMENT IN FATIGUE HARDENED ALUMINUM DURING PREPARATION OF SAMPLES FOR TRANSMISSION ELECTRON MICROSCOPY - THEORY OF FATIGUE CRACK PROPAGATION
QPR-2 N64-26864 18-18

CYCLIC STRESS-STRAIN BEHAVIOR IN INTERMEDIATE CYCLE FATIGUE RANGE OF COPPER AND 4130 STEEL
ML-TDR-64-120 N64-27460 19-18

SIZE EFFECTS ON FATIGUE CRACK PROPAGATION
ARL-64-68 N64-27466 19-33

FUNDAMENTAL STUDIES OF CONTACT FATIGUE
RS-421 N64-27544 19-18

TENSILE, STRESS RUPTURE, CREEP, SHEAR, AND FATIGUE TESTING OF REFRACTORY ELEMENTS N64-27594 19-18

EFFECT OF COMBINED PRIOR STRESS AND ATMOSPHERIC CORROSION ON FATIGUE LIFE OF ALUMINUM ALLOYS
NASA-TN-D-2359 N64-28093 20-18

FATIGUE TESTING OF DIFFERENT TYPES OF RIVETED JOINTS
F-47 N64-28115 20-17

INFLUENCE OF STRESS CORROSION ON STRENGTH OF GLASS FIBERS - STATIC FATIGUE TESTS ON E GLASS FILAMENTS
BMPR-2 N64-28546 20-33

EFFECT OF FLUID ENVIRONMENT ON TORSIONAL FATIGUE FAILURE
TR-64-GRX-10 N64-28813 20-18

DYNAMIC MODELS FOR LOW CYCLE FATIGUE TESTING
N64-29266 21-33

FATIGUE TEST OF NIOBIUM ZIRCONIUM ALLOY IN ALKALI METAL ENVIRONMENT IN SPACE POWER UNIT REACTOR
ASD-TDR-63-270, PT. IV N64-29310 21-18

ROTATING BEAM FATIGUE TESTS FOR TITANIUM-ALUMINUM-VANADIUM ALLOY AT NORMAL & ELEVATED TEMPERATURES
ICAF-251 N64-29362 21-33

THERMAL FATIGUE TESTS ON STAINLESS STEELS AND ON COPPER CLAD WITH STAINLESS STEEL FOR USE AS CONSTRUCTION MATERIALS IN URANIUM DENITRATING VESSELS
DP-901 N64-29542 21-13

TENSILE STRENGTH AND FATIGUE TESTS TO DETERMINE ENDURANCE LIMIT OF STEEL
IS-929 N64-29760 21-18

TRANSMISSION ELECTRON MICROSCOPIC OBSERVATIONS OF FATIGUE INDUCED DEFORMATION FAULTING IN THIN FOIL STAINLESS STEEL
AFOSR-64-1004 N64-29999 21-18

CREEP AND FATIGUE LIFE IN FILAMENT WOUND LAMINATES
AD-602495 N64-30061 21-19

STRUCTURAL FAILURES OF AIRCRAFT CAUSED BY FATIGUE, CORROSION, AND ABRASION
TRECOM-TR-64-36 N64-30118 21-04

OPTIMIZATION OF PALMGREN-MINER DETERMINATIONS OF CUMULATIVE FATIGUE DAMAGE
NASA-RP-310 N64-30606 22-33

CRACK NUCLEATION AND PROPAGATION IN FATIGUE OF ALUMINUM ALLOYS
NLR-TR-M.2122 N64-30638 22-18

METAL ACOUSTIC FATIGUE ANALYSIS - CRACK GROWTH FACTOR
NOR-63-196 N64-30934 22-33

WING BOX FUEL CONTAINMENT STUDIES - STATIC AND FATIGUE TESTS ON TITANIUM BOX BEAM SPECIMENS
LAC/425741/A/ N64-31302 22-17

AXIAL LOAD FATIGUE-CRACK PROPAGATION IN TITANIUM AND STAINLESS STEEL ALLOYS
NASA-TN-D-2331 N64-31568 23-18

FATIGUE LIFE TESTING OF MULTIPLE LOAD PATH REDUNDANT STRUCTURES
ML-TDR-64-160 N64-32209 23-33

SPACECRAFT ENVIRONMENTAL ACOUSTIC TEST FACILITY - LISTENING FATIGUE AND COMFORT
AD-442827 N64-32376 23-16

FRACTURE TOUGHNESS, FATIGUE-CRACK PROPAGATION, AND CORROSION CHARACTERISTICS OF ALUMINUM ALLOY PLATES FOR WING SKINS
AD-447686 N64-32546 23-18

EFFECT OF ALUMINUM OR GLASS FLAKE ADDITION TO SONIC FATIGUE DAMPING COMPOUNDS
LB-31046, SUPPL. 2 N64-32609 23-19

MATERIALS SCIENCE - BRITTLENESS, FATIGUE, AND FRACTURE MECHANICS - GLASS-REINFORCED PLASTIC, HIGH STRENGTH METALS AND ALLOYS, AND REFRACTORY MATERIALS N64-32769 24-17

TENSILE, AXIAL FATIGUE, AND CRACK PROPAGATION PROPERTIES OF ALUMINUM ALLOY, NICKEL MARAGING STEEL, HASTELLOY, AND NICKEL BASE ALLOY
GD/A-63-0818-3 N64-32819 24-18

CRYSTAL STRUCTURE AND FRAGMENTATION IN STEEL FROM FATIGUE TEST X-RAY ANALYSIS N64-32845 24-18

FATIGUE TESTS OF COLD WORKED STEELS - X-RAY ANALYSIS OF MICRODISPLACEMENT N64-32846 24-18

TRANSMISSION ELECTRON MICROSCOPE STUDY OF DISLOCATED CRYSTAL ARRANGEMENTS IN FATIGUED BERYLLIUM
NASA-CR-59031 N64-32894 24-18

FATIGUE TESTS OF NORMAL & CHROMED T-56 JET ENGINE PROPELLER SHAFTS
AD-603142 N64-33433 24-17

BENDING & THERMAL FATIGUE AND BURST TESTS ON REACTOR TUBING
HW-83386 N64-33583 24-17

CRACK NUCLEATION & GROWTH RATE IN NOTCHED METAL MICROSTRUCTURES - FATIGUE MECHANISM
QPR-3 N64-33667 24-33

VACUUM CHAMBER DESIGN FOR ELEVATED TEMPERATURE FATIGUE TESTING OF REFRACTORY METAL ALLOYS
NASA-CR-54203 N64-34000 24-18

FATIGUE /BIOL/

DYNAMICS OF FATIGUE CONDITION DETERMINATION USING REFLEXOMETER AND TREMOMETER TO MEASURE MOTOR REACTION TIME AND FINGER TREMOR
JPRS-21974 N64-10385 01-14

DECREASE IN VISUAL FACULTY UNDER FATIGUE CONDITION
N64-12506 04-16

PHYSICAL METABOLIC FATIGUE DUE TO SPARTASE - ASPARTIC ACID SALTS OF POTASSIUM AND MAGNESIUM
CARI-63-12 N64-14409 06-16

EYE FATIGUE STUDY
JPRS-24592 N64-20483 13-16

STRESS AND FATIGUE IN HUMAN BEHAVIOR DURING ISOLATION FROM EXTERNAL STIMULI
JPRS-24961 N64-21288 14-16

EFFECT OF NOISE FROM CARRIER DECK JET ENGINE OPERATION ON HEARING, SPEECH INTERFERENCE, AND SONIC FATIGUE
AD-432086 N64-21840 15-14

STRESS AND FATIGUE UNDER ISOLATED CONDITIONS
FTD-TT-63-1015/1&2&4 N64-21938 15-14

FATIGUE LIFE
STRESS CONCENTRATION AND FATIGUE LIFE AT ELEVATED TEMPERATURES OF STAINLESS STEEL BELLOWS FOR SODIUM COOLED REACTOR SYSTEMS
NAA-SR-9762 N64-29352 21-33

FATIGUE LIFE OF FULLY QUENCHED STEEL COMPOSITION OF VARIOUS STRENGTH LEVELS
DTMB-1807 N64-30826 22-18

EFFECTS OF VARIABLE-AMPLITUDE AXIAL LOADS AND GROUND-AIR-GROUND CYCLES ON FATIGUE LIFE OF ALUMINUM ALLOYS
NASA-TN-D-1584 N64-32426 23-18

FATIGUE TESTING MACHINE
APPARATUS FOR TESTING FATIGUE OF MACHINED METALLIC SPECIMENS IN HIGH VACUUM SIMULATING SPACE
EM-13-11 N64-12901 04-15

HYDRAULIC TENSION-COMPRESSION FATIGUE TESTING MACHINE
D1-82-0268 N64-28712 20-10

ANNUAL VARIATION OF FLIGHT PERFORMANCE OF VISCOUNT TRANSPORT AIRCRAFT RECORDED BY FATIGUE TESTING MACHINE
ARC-CP-667 N64-28851 20-04

FATTY ACID
EFFECT OF FLUORIDE, SULFATE, & CHLORIDE IONS ON ADSORPTION OF OLEATE ON FLUORITE AND BARITE
BM-RI-6412 N64-17983 10-25

LIPOIC ACID EFFECT ON REDUCTION OF CARBON DIOXIDE DURING PHOTOSYNTHESIS N64-19469 12-07

PLASMA NONESTERIFIED FATTY ACIDS IN RATS SUBJECTED TO GRAVITATIONAL ACCELERATION
NASA-TT-F-197 N64-26782 18-16

FORMATION OF FATTY ACIDS BY OXIDATION OF ALKYLATED GASOLINE FRACTION
FTD-MT-64-02 N64-31915 23-07

FAULT MECHANICS
SA STACKING FAULT
COMPUTATIONAL TECHNIQUES FOR AUTOMATIC FAULT ISOLATION IN ELECTRONIC CIRCUITRY TO COMPONENT LEVEL
APL-TDR-64-62 N64-26958 18-09

TRANSMISSION ELECTRON MICROSCOPIC OBSERVATIONS OF FATIGUE INDUCED DEFORMATION FAULTING IN THIN FOIL STAINLESS STEEL
AFOSR-64-1004 N64-29999 21-18

FAULT ISOLATION PRESENTATION
AMRL-TDR-64-57 N64-31944 23-14

FECES
MICROBIAL AND ENZYMATIC PROCESSES FOR REDUCING HUMAN URINE AND FECES TO ELECTROCHEMICAL FUELS
NASA-CR-54077 N64-27930 20-06

NORMAL FECAL BACTERIAL FLORA OF MAN - MORPHOLOGICAL TYPE CULTURES
NASA-CR-59257 N64-33288 24-16

FEED SYSTEM
CRYOGENIC PROPELLANT FEED SYSTEMS FOR ELECTROTHERMAL ENGINES
NASA-CR-52726 N64-11075 02-06

HIGH PRESSURE AIR FEED SYSTEM FOR WIND-TUNNEL BALANCES
COA-AERO-157 N64-14047 05-10

FEED SYSTEM FOR CIRCULAR SYMMETRIC GEODESIC MICROWAVE LENS ANTENNAS
REPT.-1394-12 N64-20357 13-09

DIELECTRIC ELEMENTS FOR SATELLITE COMMUNICATIONS ANTENNA ARRAYS AND FEED SYSTEMS
AD-429052 N64-20402 13-09

ION ENGINE PROPELLANT FEED SYSTEM
NASA-CR-51 N64-20579 13-27

ELECTROHYDRAULIC FEEDING AND ATOMIZING LIQUID FUELS AND OTHER LIQUIDS
FTD-TT-63-478/1&2 N64-22649 15-07

ANALYSIS OF PRESSURE AND FLOW PERTURBATIONS PRODUCED IN PROPELLANT FEED SYSTEMS
NASA-TN-D-2409 N64-26777 18-11

VERY HIGH POWER, VERY LOW NOISE CASSEGRAIN ANTENNA FEED SYSTEM FOR PLANETARY RADAR
NASA-CR-58674 N64-28970 20-08

PERFORMANCE CHARACTERISTICS OF WIDE FLARE ANTENNA FEED SYSTEM
AFCRL-64-347 N64-29243 21-08

POROUS MATRIX PHASE SEPARATOR FOR ION ENGINE PROPELLANT FEED SYSTEM
NASA-CR-54152 N64-30033 21-27

FEEDBACK
AUTOMATIC CONTROL OF MULTIVARIABLE, ADAPTIVE, OPTIMAL, SELF-ORGANIZING SYSTEMS AND PERTURBATION METHOD IN ADAPTATION AND FEEDBACK
N64-10830 02-20

SELF-ORGANIZING SYSTEMS AND PRINCIPLES OF THEIR DESIGN - OPEN CONTROL BY PERTURBATIONS AND FEEDBACK ACCORDING TO OUTPUT CHARACTERISTICS
N64-11530 03-09

ARITHMETIC CODING SYSTEM WITH DIGITAL COMPUTER FEEDBACK SYSTEM FOR CORRECTING INDIVIDUAL ERRORS
N64-11834 03-20

MULTIPLE CIRCULATOR OF FREQUENCY MODULATED SIGNAL IN DELAY LINE WITH FEEDBACK FOR ISOLATING SIGNAL
JPRS-22706 N64-13088 04-09

SERIES-SHUNT FEEDBACK PAIR TRANSISTOR CIRCUIT
AFCRL-63-520 N64-13624 05-09

BINARY EFFECTS OF COUPLED LINEAR FEEDBACK SHIFT REGISTER
DVL-307 N64-15032 07-09

FEEDBACK DEMODULATOR FOR DEMODULATION OF ANALOG SIGNALS
REPT.-65G-5 N64-17371 09-08

TWO-WAY FEEDBACK COMMUNICATION SYSTEM WITH INFORMATION REPEATS - CONTINUOUS SEQUENTIAL DECODING
ESD-TDR-63-593 N64-20114 13-08

CUMULATIVE DECISION TECHNIQUES USING FEEDBACK
TR-400-87 N64-21448 14-20

SEMICONDUCTOR DEVICE - DIRECT CURRENT TRANSFORMER WITH INDUCTIVE FEEDBACK
FTD-TT-62-117/1&2&4 N64-21650 15-09

MATHEMATICS - CASCADED COUNTERS WITH FEEDBACK
MRC-467 N64-23105 16-20

STABILITY OF STEADY STATE MOTION OF SERVO WITH FEEDBACK N64-23560 16-23

TRANSFORMER-TYPE PULSED FREQUENCY METER WITH FEEDBACK LOOP AND SEMICONDUCTOR TRIODE
N64-24539 17-09

LIMITATIONS OF PURE FLUID AMPLIFIERS - DEVIATIONS FROM IDEAL GEOMETRY, OPERATING CONDITIONS, AND FEEDBACK EFFECTS N64-25265 17-11

PARALLEL CHANNEL MULTILOOP FEEDBACK AMPLIFIERS FOR APPLICATIONS REQUIRING HIGH RELIABILITY
AFCRL-64-287 N64-25482 17-09

EFFECT OF FEEDBACK ON ADAPTIVE CHARACTERISTICS IN LIFE SCIENCES AND MAN-MACHINE INTERACTIONS
AMRL-TDR-64-39 N64-26884 18-14

NOISE IMMUNITY OF COMMUNICATION SYSTEMS WITH ERROR CORRECTING FEEDBACK CHANNELS
JPRS-25853 N64-27065 19-08

ENHANCEMENT OF WORK PERFORMANCE BY ORALLY

PRESENTED RESULTS
TR-18 N64-27096 19-14

AUDITORY SIGNAL FOR FEEDBACK IN SIMPLE REMOTE CONTROL HANDLING TASKS
AMRL-TDR-64-46 N64-27433 19-14

SELF TEACHING SYSTEMS WITH POSITIVE FEEDBACK
JPRS-25603 N64-28443 20-09

MATHEMATICAL DEFINITION OF POLE SENSIVITY OF FEEDBACK SYSTEM
NASA-CR-58239 N64-28951 20-09

CALCULATION OF SELECTIVE AMPLIFIER WITH DOUBLE T-SHAPED BRIDGE IN FEEDBACK CIRCUIT
N64-29141 21-15

STROBOSCOPE WITH SYNCHRONIZING FEEDBACK FOR STUDY OF VOCAL CORDS N64-30394 22-16

TWO-STAGE TRANSISTOR AMPLIFIER WITH PARALLEL FEEDBACK N64-31365 23-09

DIGITAL SERVOMECHANISM FOR AUTOMATIC CONTROL SYSTEM EMPLOYING PULSE FREQUENCY FEEDBACK
NASA-CR-59064 N64-32987 24-09

DESIGN OF MICROELECTRONIC 2-WATT SERVO AMPLIFIER - DIFFERENTIAL AMPLIFIER WITH TWO FEEDBACK LOOPS
REPT.-1111-R-0010 N64-33706 24-09

SENSITIVITY MATRIX OF GENERAL LINEAR MULTIVARIABLE FEEDBACK SYSTEM
R-227 N64-33965 24-09

FEEDBACK CONTROL SYSTEM
FEATURE PROBABILITY AND FEEDBACK LOOP
JPRS-21375 N64-10001 01-09

FEEDBACK PURPOSE IN CONTROL SYSTEM - STATIC AND DYNAMIC PERFORMANCE IMPROVEMENTS TO MINIMIZE EFFECT OF NOISE AND UNPREDICTABLE CHANGES
RES. REPT.-41 N64-15704 07-20

PIECEWISE LINEAR SWITCHING FUNCTIONS FOR MINIMUM-TIME FEEDBACK CONTROL SYSTEM
NASA-CR-53101 N64-16738 08-06

SHOCK SPECTRUM ANALYSIS USING DIGITAL COMPUTER AND FEEDBACK CONTROL METHODS N64-18548 11-23

MATHEMATICAL MODEL OF QUASI-ANALOG SYSTEM WITH FEEDBACK CONTROL
FTD-TT-62-1557/1&2&4 N64-19192 11-20

SYNTHESIS PROCEDURE FOR OPTIMUM MULTIVARIABLE FEEDBACK SYSTEM
R-173 N64-19400 12-20

PARAMETER VARIATION PROBLEM IN LINEAR MULTI-VARIABLE FEEDBACK SYSTEM DESIGN - CONTROL THEORY
R-177 N64-19403 12-20

STATE VECTOR EQUATIONS FOR PARAMETER VARIATION PROBLEM IN MULTIVARIABLE LINEAR SYSTEMS - OPTIMAL FEEDBACK CONTROL SYSTEM DESIGN
R-182 N64-19405 12-20

VECTOR MATRIX NOTATION OF OPTIMAL FEEDBACK CONTROL PROBLEMS WITH INEQUALITY CONSTRAINTS
N64-19498 12-06

INCREMENTAL DIGITAL POSITIONING SERVOSYSTEM WITH DIGITAL RATE FEEDBACK
NASA-CR-53867 N64-19795 12-06

DIGITAL DATA HANDLING METHODS FOR FEEDBACK CONTROL SYSTEMS
NASA-CR-53868 N64-19796 12-06

DESIGN OF TIME OPTIMAL CONTROL AND FEEDBACK CONTROL SYSTEMS FOR SPACE VEHICLE APPLICATIONS
USCEE-103 N64-19867 12-20

EXTENSION OF CONTROL FUNCTION TO NEIGHBORHOOD OF REFERENCE TRAJECTORY TO OBTAIN FEEDBACK CONTROL
N64-20963 14-29

FEEDBACK CONTROL SYSTEM FOR AEROSPACE VEHICLES - OPTIMAL CONTROL PROBLEM FORMULATION
RES. REPT.-63-RC-1 N64-21069 14-09

NOISE SUPPRESSION IN PULSE WIDTH MODULATION SYSTEM FOR DESIGNING FEEDBACK CONTROL SYSTEM
R-190 N64-23607 16-08

STABILITY AND PERFORMANCE ANALYSIS OF CERTAIN CLASS OF NONLINEAR TIME-DEPENDENT FEEDBACK CONTROL SYSTEMS
REPT.-2900-348-R N64-25785 17-06

DIGITAL FEEDBACK CONTROL SYSTEM
NASA-CR-59035 N64-32990 24-06

FEEDING DEVICE
CONTAINER WITH FEEDING DEVICE FOR ANIMAL STUDY DURING SPACE FLIGHT OF MICE N64-11703 03-16

FERMI STATISTICS
TABLES OF FERMI INTEGRALS FOR EVALUATING MULTIPOLE MOMENTS OF ROUNDED CHARGE DISTRIBUTIONS OF NUCLEI
ORNL-3525 N64-13156 04-20

EQUIVALENCE BETWEEN FOUR-FERMI AND YUKAWA COUPLINGS
UR-875-41 N64-25612 17-23

FERMI SURFACE
FERMI SURFACE OF LEAD
IS-762 N64-17835 09-23

FERRANTI MERCURY COMPUTER
MAGNETIC TAPE UNIT FOR FERRANTI MERCURY COMPUTER TO PERMIT READING AND WRITING TO IBM MAGNETIC TAPE SPECIFICATIONS
CERN-63-32 N64-13050 04-09

FERRIMAGNETISM
MICROSTRUCTURE OF INTERNAL MAGNETIC FIELD IN FERRO-, FERRI-, AND ANTIFERROMAGNETIC SOLIDS
NL-TDR-64-58 N64-25592 17-23

FERRIMAGNETIC RESONANCE RELATIONS FOR MAGNETIC CRYSTALLINE ANISOTROPY IN CUBIC CRYSTALS
AFCRL-64-72 N64-27423 19-25

MAGNETIC PROPERTIES VS TEMPERATURE PROFILES FOR FERRIMAGNETIC MATERIALS
NRL-5935 N64-28872 20-25

FERRITE
SA CARBON
SA STEEL
FERRITE SWITCH CONSISTING OF POWER DIVIDER, TWO FERRITE PHASE SHIFTERS, AND SLOT BRIDGE
N64-12731 04-09

AUTOMATIC TUNING SYSTEM - OPTIMIZATION OF FERRITE SWITCH BY VARYING FERRITE PARAMETERS
N64-12741 04-09

ADVANCED MICROWAVE COMPONENTS AND TECHNIQUES - PLANAR HEXAGONAL FERRITES AND YTTRIUM-IRON GARNET CRYSTALS
RADC-TDR-63-508 N64-14312 06-19

MINIATURE THIN-FILM INDUCTORS USING FLAT CONDUCTING SPIRALS DEPOSITED ON FERRITE SUBSTRATE
IR-2 N64-14772 06-09

CRYSTAL LATTICE STATE AND DISLOCATION DENSITY IN AUSTENITE & FERRITE DURING PHASE TRANSFORMATIONS
N64-16122 08-25

ROOM TEMPERATURE BURST STRENGTH AND DUCTILITY OF MODEL DISKS IN FERRITE TURBINE DISK MATERIAL
ARC-CP-660 N64-16529 08-33

FERRITE MATERIAL FOR ELASTIC SWITCHING IN ASSOCIATIVE MEMORY SYSTEMS
RADC-TDR-63-483 N64-17151 09-20

ULTRAHIGH FREQUENCY THREE-PORT FERRITE DUPLEXER
AD-436028 N64-18845 11-09

THREE-PORT C-BAND FERRITE DUPLEXER
SJ.M-220-0037-4 N64-19803 12-09

MICROWAVE FERRITE PHASE-SHIFTER
TR-1189 N64-19929 12-09

ACOUSTIC WAVE AMPLIFICATION, OPTICAL MASERS, FERRITE NONLINEAR PROPAGATION, AND INTERACTIONS OF ELECTRON BEAM AND PLASMA
ML-1122 N64-20399 13-23

MICROWAVE RESONANCE PROPERTIES OF SINGLE CRYSTAL FERRITES WITH UNIAXIAL ANISOTROPY
USAELRDL-TR-2384 N64-20448 13-25

OPTIMAL USE OF FERRITES IN RECTANGULAR SLOT RADIATORS AND ANNULAR SLOT ANTENNAS
REPT.-5549-6-P N64-21364 14-09

LOG SPIRAL ANTENNAS AND FERRITE LOADING OF SLOTTED ANTENNAS FOR ULTRAHIGH FREQUENCY AND VERY HIGH FREQUENCY RANGE
REPT.-5549-9-P N64-21415 14-09

HIGH POWER FERRITE SWITCH
SJ-222-0047-2 N64-22099 15-09

RELATION BETWEEN SOLUBILITY OF CARBON IN FERRITE AND TYPE OF CARBIDES FORMED ON TEMPERING
FTD-TT-63-349/1&2&4 N64-22186 15-18

MICROWAVE COMPONENTS AND TECHNIQUES - PLANAR HEXAGONAL FERRITES AND DEVICES
RADC-TDR-64-78 N64-22276 15-25

ELECTROLYTIC PRECIPITATION OF SUBSTANCES AND MIXES FOR SYNTHESIS OF HIGH QUALITY FERRITES
FTD-TT-63-348/1&2&3&4 N64-22349 15-07

PROPAGATION OF ELECTROMAGNETIC WAVES IN RECTANGULAR GUIDES LOADED WITH MAGNETIZED FERRITE
AFCRL-64-354 N64-22685 15-09

SURFACE WAVE PROPAGATION ALONG FERRITE ROD
AFCRL-63-569 N64-23143 16-23

COMBINING FERRITE OPERATIVE AND PERMANENT MEMORY STORAGE UNITS N64-23803 16-20

MAGNETIC MEMORY UNIT USING DIODE-DIGIT ACCESS AND FERRITE CORES N64-24544 17-09

FERRITE CORES FOR MEMORY DEVICES
JPRS-25476 N64-25480 17-20

EVALUATION OF FERRITE MATERIALS FOR ELECTRONICALLY STEERABLE ANTENNA ARRAY
RADC-TDR-64-15 N64-26231 18-08

ADVANCED MICROWAVE COMPONENTS AND TECHNIQUES - PLANAR HEXAGONAL FERRITES AND DEVICES
RADC-TDR-64-242 N64-26938 18-25

FERROMAGNETIC RESONANCE MEASURED ON CRYSTAL ORIENTED HEXAGONAL FERRITES
HDL-TR-1227 N64-27933 20-25

ROTATING-FIELD PHASER UTILIZING FERRITE MICROWAVE PROPERTIES
ESD-TDR-64-422 N64-28022 20-09

THERMODYNAMIC PROPERTIES OF CUPROUS AND CUPRIC FERRITES
BM-RI-6513 N64-28107 20-07

FINAL PRECESSION ANGLES FOR FERRITE SAMPLES SUBJECTED TO PULSED MAGNETIC FIELDS
ML-1149 N64-28713 20-25

MANUAL FOR OPERATION OF FERRITE FLUXGATE MAGNETOMETER
NASA-CR-58342 N64-28989 20-15

FABRICATION OF FERRITE CORE MAGNETOMETERS
NASA-CR-58344 N64-28991 20-15

CONSTRUCTION OF STORAGE ADDERS ACTING IN SEQUENCE FROM FERRITE CORES N64-29137 21-15

WEAK FERROMAGNETISM IN ORTHOFERRITES CONTAINING PARAMAGNETIC RARE EARTHS - ANTISYMMETRIC EXCHANGE MECHANISM
TN-2 N64-29613 21-25

EFFECTS OF ROD WIDTH AND WAVEGUIDE HEIGHT ON FERRITE PHASE SHIFTER
NRL-6112 N64-29874 21-25

CURIE TEMPERATURES OF ORTHOFERRITES OF RARE EARTH METALS
TN-3 N64-30028 21-25

DEVELOPMENT OF HIGH POWER FAST FERRITE SWITCHES IN C- AND S-BAND
IDR-3 N64-30867 22-09

FERRITE CIRCUIT TO PRODUCE HIGH VOLTAGE NANOSECOND PULSES
JPRS-26780 N64-31023 22-09

CHARACTERISTICS OF FERRITE PHASE SHIFTERS FOR CENTIMETER BAND N64-31359 23-09

ANGULAR VARIATION OF COERCIVITY IN ORTHOFERRITE SINGLE CRYSTALS - HYSTERESIS CURVE RECORDING WITH VIBRATING SAMPLE MAGNETOMETER
TN-6 N64-31814 23-25

MULTIPLE-CYCLE SHIFT REGISTER WITH FERRITE TRANSISTORIZED CELLS N64-31861 23-09

SPONTANEOUS MAGNETIZATION OF ORTHOFERRITES AT CRYOGENIC TEMPERATURES
TN-8 N64-32198 23-25

MAGNETIC FLUX SWITCHING IN FERRITES - APPLICATION OF PARABOLIC SWITCHING MODELS TO SOLUTIONS OF MAGNETIC CIRCUITS
NASA-CR-59245 N64-33290 24-09

INITIAL PERMEABILITY OF LITHIUM AND NICKEL FERRITES
AD-422698 N64-33899 24-25

FERROCENE
MEASUREMENTS OF DARK CONDUCTIVITIES IN FERROCENE CRYSTALS
TR-2459 N64-30581 22-25

CHEMICAL PROPERTIES OF FERROCENE AND RELATED COMPOUNDS
AD-600969 N64-32822 24-07

FERROELECTRICS
SA DIELECTRIC MATERIAL
DIRECT CURRENT POWER SUPPLY FOR TRACING HYSTERESIS LOOP OF FERROELECTRIC CERAMIC MATERIALS
SC-RR-260-63 N64-11631 03-06

FERROELECTRIC AND PIEZOELECTRIC MATERIALS N64-14188 06-25

COMPARISON OF FERRELECTRIC BOLOMETER WITH OTHER THERMAL DETECTORS FOR SPACE INSTRUMENTATION
NASA-CR-55542 N64-15386 07-15

FERRIELECTRICS IN SOLID STATE ADAPTIVE CONTROL SYSTEMS N64-18840 11-09

SUPPLEMENT ON FERROELECTRICS - BIBLIOGRAPHY
EDL-M557 N64-19559 12-19

LARGE SIGNAL MICROWAVE EFFECTS IN FERROELECTRIC MATERIALS
SJ-230-0048-2 N64-21367 14-23

GENERAL CHARACTERISTICS OF HIGH TEMPERATURE FERROELECTRIC MATERIALS
ML-TDR-64-24 N64-21509 15-19

MATERIAL TESTING FOR SOLID-STATE FERROELECTRIC ACCELEROMETER
AD-432049 N64-21872 15-15

FERROMAGNETIC AND FERROELECTRIC MATERIALS FOR MICROWAVE AND RADIO FREQUENCY CIRCUITRY
AFCRL-64-309 N64-24176 16-09

PARAMETERS FOR FERRODYNAMIC GALVANOMETER N64-29134 21-15

CERAMIC FERROELECTRIC BOLOMETERS FOR ASTRONOMY
N64-29384 21-15

APPLICATION OF LARGE SIGNAL NONLINEAR MICROWAVE EFFECTS IN FERROELECTRIC MATERIALS TO MICROWAVE POWER LIMITERS, PARAMETRIC AMPLIFIERS, AND HARMONIC GENERATORS
QR-3 N64-29653 21-25

FERROELECTRICS AND FERRIELECTRICS IN COMPUTERS
RTD-TDR-63-4002 N64-30706 22-25

MIXED BISMUTH OXIDE TYPE FERROELECTRICS WITH LAYER-TYPE STRUCTURE
AL-TDR-64-124 N64-31932 23-25

COMPARATIVE INVESTIGATION OF VARICAP AND FERROELECTRIC IN DECIMETER BAND - MICROWAVE-CONTROLLED DEVICES N64-32916 24-09

FERROMAGNETIC RESONANCE
TIME RATE OF TEMPERATURE CHANGE IN GLASS DEWAR SYSTEM - FERROMAGNETIC RESONANCE IN IRON GARNETS
AFCRL-64-17 N64-22565 15-13

FERROMAGNETIC RESONANCE MEASURED ON CRYSTAL ORIENTED HEXAGONAL FERRITES
HDL-TR-1227 N64-27933 20-25

FERROMAGNETISM
SA BARKHAUSEN EFFECT
SA FERRITE
CF ANTIFERROMAGNETISM
CF POLARIZATION
CHANGES IN MODULUS OF ELASTICITY AND TEMPERATURE IN FERROMAGNETIC SOLID SOLUTIONS ON NICKEL BASE ALLOY DURING HEAT TREATMENT N64-11145 02-18

BITTER COLLOID METHOD AND EQUIPMENT FOR OBSERVING FERROMAGNETIC DOMAINS BY LIGHT MICROSCOPY
ASD-TDR-63-83 N64-14317 06-23

THERMAL AND THERMOELECTRIC PROPERTIES OF FERROMAGNETIC METALS
NASA-CR-53070 N64-15779 07-23

CATHODE OSCILLOGRAPH FOR STATIC MAGNETIC CHARACTERISTICS STUDY OF FERROMAGNETIC MATERIALS
FTD-TT-63-435/1&2 N64-16368 08-23

POLARIZATION OF SILVER NUCLEI IN FERROMAGNETIC IRON AND NICKEL METALS
UCRL-11143 N64-17293 09-23

EXTENSION OF GREEN FUNCTION METHOD TO STUDY OF FERROMAGNETIC CURIE TEMPERATURE IN CUBIC LATTICES WITH NEXT NEAREST NEIGHBOR INTERACTION
TR-13 N64-20146 13-25

NONLINEAR EFFECTS IN MICROWAVE PROPERTIES OF FERROMAGNETIC MATERIALS
AD-433873 N64-21474 14-23

BALLISTIC GALVANOMETER FOR MEASUREMENT OF MAGNETIC FIELD ON FERROMAGNETIC MATERIAL
FTD-TT-63-1/1&264 N64-23411 16-15

FERROMAGNETIC AND FERROELECTRIC MATERIALS FOR MICROWAVE AND RADIO FREQUENCY CIRCUITRY
AFCRL-64-309 N64-24176 16-09

MICROSTRUCTURE OF INTERNAL MAGNETIC FIELD IN FERRO-, FERRI-, AND ANTIFERROMAGNETIC SOLIDS
NL-TDR-64-58 N64-25592 17-23

NONLINEAR EFFECTS IN MICROWAVE PROPERTIES OF FERROMAGNETIC MATERIAL
QPR-8 N64-25658 17-23

FERROMAGNETIC AND ANTIFERROMAGNETIC MATERIALS NEAR CURIE POINT N64-29059 21-23

SPONTANEOUS MAGNETIZATION IN IDEALIZED FERROMAGNETS
TR-19 N64-29544 21-25

WEAK FERROMAGNETISM IN ORTHOFERRITES CONTAINING PARAMAGNETIC RARE EARTHS - ANTISYMMETRIC EXCHANGE MECHANISM
TN-2 N64-29613 21-25

NUCLEAR MAGNETIC RESONANCE IN FERROMAGNETIC MATERIALS OBSERVED IN ZERO APPLIED MAGNETIC FIELD
AD-602514 N64-29747 21-25

ELECTRICAL AND MAGNETIC PROPERTIES OF ALLOYS FOR FERROMAGNETIC SUPERCONDUCTORS
RADC-TDR-64-188 N64-30938 22-25

LOW LOSS DIELECTRICS FOR FOUR-MILLIMETER RESONANT STRUCTURES FOR FERROMAGNETIC TYPE PARAMETRIC AMPLIFIER
REPT.-10 N64-31255 22-25

INVESTIGATION OF FREQUENCY DEPENDENCE OF MAGNETIZING CURRENT OF CIRCULATOR - FARADAY EFFECT
N64-31367 23-09

BEHAVIOR DETERMINATION OF FERROMAGNETIC MATERIALS IN MAGNETIC FIELD AND METHODS OF PRODUCING AND MEASURING MAGNETIC FIELDS
FTD-TT-63-531/1&2 N64-31801 23-25

NONLINEARITY OF MAGNETIC SUSCEPTIBILITY IN WEAK FERROMAGNETS AND ANTIFERROMAGNETS
TM-7 N64-33338 24-25

TORQUE MAGNETOMETER GAUSSMETER WITH WEAK FERROMAGNETIC ROTORS
TN-9 N64-33492 24-15

MAGNETIC PROPERTIES OF RARE EARTH-IRON ALLOYS
GNE/PHYS/64-12 N64-33816 24-25

FEYNMAN DIAGRAM
CF NUCLEAR PHYSICS
CF SCATTERING
ONE-PARTICLE EXCHANGE APPROXIMATION AND FEYNMAN GRAPHS
TH-57 N64-26432 18-23

PERTURBATION THEORY AND FEYNMAN DIAGRAMS APPLIED TO QUANTUM FIELD THEORY
ARL-64-169 N64-32450 23-23

FIBER
SA GLASS FIBER
ABLATION RATE OF INORGANIC FIBER REINFORCED PLASTICS EXPOSED IN ROCKET JETS
CPD-61 N64-11241 02-13

BONDING IN OXIDE FIBER WHISKER REINFORCED METAL MATERIALS
AMRA-CR-63-01/2 N64-12044 03-19

BONDING IN OXIDE-FIBER REINFORCED MATERIALS - EFFECTS OF IMPURITIES
AMRA-CR-63-01/3 N64-12935 04-18

COMPOSITE MODULI OF UNIDIRECTIONAL FIBER-REINFORCED MEDIA
NASA-CR-52410 N64-12952 04-19

FORMATION OF REFRACTORY FIBERS OR WHISKERS BY VAPOR PHASE GROWTH - ALUMINUM HALIDE OXIDATION, ALUMINUM OXIDE REDUCTION, AND RECRYSTALLIZATION
AMRA-CR-63-03/1 N64-13037 04-18

GLASS FIBER STRENGTH ENHANCEMENT THROUGH BUNDLE DRAWING OPERATIONS
ARF-K263 N64-13607 05-19

ELIMINATION OR CONTROL OF FIBER ORIENTATION FOR IMPROVED FATIGUE LIFE OF STEEL BALL BEARINGS
NASA-CR-55402 N64-14284 06-17

POLYMERS, PLASTIC MATERIALS, SYNTHETIC FIBERS, ORGANIC & INORGANIC COMPOUNDS, METALS, AND ALLOYS
CRDL-SP-5-3 N64-14815 06-19

ANTISTATIC AGENT EFFECT ON SYNTHETIC FIBER FABRICS
AERE-R-4254 N64-15699 07-19

REINFORCED METAL COMPOSITE PREPARATION BY ELECTRO-DEPOSITION AND VAPOR DEPOSITION OF METALS AND OXIDES ON METAL FIBERS N64-16315 08-18

STERILIZED FIBERS FOR CLINICAL MEDICINE

JPRS-23609 N64-16545 08-16

HYDROGEN BOND AS PREDOMINANT FACTOR IN INTER- AND INTRAFIBER BONDING IN CELLULOSE N64-16918 09-19

MONOFILAMENT FIBER FRICTION MECHANISMS
RTD-TDR-63-4127, PT. 1 N64-17665 09-33

GLASS FIBER TENSILE STRENGTH IMPROVEMENT BY BUNDLE DRAWING
IITRI-8263-4 N64-18765 11-19

STRESS-STRAIN BEHAVIOR OF AROMATIC POLYAMIDE/HT-1/ AND POLYESTER/DACRON/ - ORGANIC FIBERS
SM-44641 N64-19007 11-19

SYNTHESIS AND PROPERTIES OF FIBROUS SILICON NITRIDE
BM-RI-6467 N64-22101 15-07

THERMAL AND GAMMA RADIATION BEHAVIOR OF HEAT RESISTANT DYED FIBER
ML-TDR-64-77 N64-23964 16-23

PHOTOGRAPHIC AND IONIZATION RECORDING OF X-RAY DIFFRACTION ANALYSES OF POLYVINYL ALCOHOL FIBERS
FTD-TT-64-319/1&2&4 N64-25469 17-19

STRUCTURE, PROPERTIES, AND PATHOLOGICAL CHANGES OF ELASTIC FIBROUS COMPONENTS OF CONNECTIVE TISSUE
JPRS-25252 N64-26056 18-16

PRINCIPLES AFFECTING HIGH STRENGTH TO DENSITY COMPOSITES WITH FIBERS OR FLAKES
ML-TDR-64-85 N64-26891 18-19

MECHANICAL BEHAVIOR OF FIBERS SUBJECTED TO STATIC LOADS
ML-TDR-64-118 N64-29852 21-33

CONTINUOUS FORMATION OF REFRACTORY FIBERS AND WHISKERS BY VAPOR PHASE PROCESS
AMRA-CR-63-03/4 N64-30819 22-07

SELF-CONTAINED TENSION CASTING DEVICE FOR REPRODUCIBLE FIBER STRAND TESTS
TM-230 N64-30894 22-10

REINFORCEMENT OF SILVER WITH STEEL FIBERS
IITRI-86020-3 N64-31029 22-18

FIBER PATTERNS FOR UNIFORM TENSION IN SPINNING FILAMENTARY DISK
NASA-CR-106 N64-31203 22-33

FIBER OPTICS
CF ELECTRON TUBE
CF VIDICON
FIBER OPTIC SENSING DEVICE WITH OPTICAL INPUTS AND ANALOG CURRENT OUTPUTS
RADC-TDR-63-438 N64-12210 03-15

FIBER OPTICS - PRINCIPLES, PROPERTIES, & DESIGN CONSIDERATIONS N64-15471 07-23

FIBER OPTICS AND ITS USE IN ELECTRO-OPTICAL DEVICES - CAMERA, PRINTER, TELEVISION, AND ANALOG-TO-DIGITAL CONVERTER N64-15472 07-23

OPTICAL SYSTEMS USING FIBER OPTICS N64-15473 07-23

OPTICAL FIBER DETERMINATION OF SOLID PARTICLE VELOCITY IN TWO-PHASE GAS-SOLIDS IN TURBULENT PIPE FLOW - SQUID PROJECT
PR-107-P N64-19635 12-11

MATERIALS, FIBER PRODUCTION, AND PROPERTIES OF INFRARED FIBER OPTICS COMPONENTS
AL-TDR-64-98 N64-27681 19-23

PHOSPHOR EVALUATION, GUN DESIGN, AND ELECTRON OPTICS OF MINIATURE FIBER OPTIC CATHODE RAY TUBES
QPR-1 N64-31701 23-09

FABRICATION TECHNIQUES AND EQUIPMENT FOR FIBER OPTICS IMAGE DEVICE
RADC-TDR-64-217 N64-31945 23-15

EXPERIMENTAL EVALUATION OF FUSED FIBER OPTICAL COMPONENTS FROM GLASS
IER-2 N64-32608 23-19

DIELECTRIC FIBER OPTICAL SYSTEM FOR SPACE APPLICATION
NASA-CR-59183 N64-32996 24-23

FIBER STRENGTH
GLASS FIBER TENSILE STRENGTH IMPROVEMENT BY BUNDLE DRAWING
IITRI-8263-4 N64-18765 11-19

FIBROUS MATERIAL
FIBERBOARD TARGETS FOR M31A1 TRAINFIRE MECHANISM
RIA-TR-63-2879 N64-11541 03-19

DIELECTRIC PROPERTIES & INSULATING APPLICATIONS OF POLYMER FILMS & FIBROUS MATERIALS - BIBLIOGRAPHY N64-14190 06-19

TENSILE STRENGTH IMPROVEMENT OF SILICONE RUBBER BY USING CERTAIN FIBROUS TALCS
QPR-3 N64-14471 06-13

FIBROUS CARBON & GRAPHITE AS INSULATORS
FTD-TT-63-330/1&2&4 N64-23300 16-19

FLEXIBLE FIBROUS MATERIALS AND COATINGS FOR EXPANDABLE REENTRY SYSTEMS N64-23704 16-18

MECHANICAL REACTION OF PLAIN WEAVE FABRIC TO UNIFORM BIAXIAL STRESS
ML-TDR-64-239 N64-30990 22-33

FIELD
S ANTENNA FIELD
S BOSON FIELD
S CROSSED FIELD
S ELECTRIC FIELD
S ELECTROMAGNETIC FIELD
S ELECTROSTATIC FIELD
S FAR FIELD
S FLOW FIELD
S FORCE FIELD
S GEOMAGNETIC FIELD
S GRAVITATIONAL FIELD
S MAGNETIC FIELD
S MAGNETOSTATIC FIELD
S PRESSURE FIELD
S RADIATION FIELD
S SOUND FIELD
S STELLAR FIELD
S TELLURIC FIELD

FIELD EMISSION
SA SECONDARY EMISSION
SA THERMIONIC EMISSION
CF ELECTRIC FIELD
CHARGING TIME IN APPLIED ELECTRIC FIELD FOR ALKALI METALLIC COLLOIDS
NASA-TN-D-2078 N64-12106 03-23

SHORT PERIOD ELECTRIC FIELD OSCILLATIONS OF FAIR WEATHER FIELDS
AP-23 N64-14036 05-21

ELECTRON BEAM MEASUREMENT OF FIELD EMISSION IN PLASMA SHEATH
ARL-64-14 N64-16776 08-24

FIELD EMISSION FROM SINGLE CRYSTALS OF GRAPHITE
ANL-6804 N64-20836 14-23

CESIUM MIGRATION ON REFRACTORY METALS USING FIELD EMISSION MICROSCOPY
AFCRL-64-328 N64-28567 20-23

FIELD INTENSITY, GUIDE WAVELENGTHS, AND ATTENUATION OF GROOVED WAVEGUIDE
NASA-CR-58721 N64-29403 21-09

FIELD EMISSION IN VACUUM VOLTAGE BREAKDOWN
TR-353 N64-30677 22-09

FIELD EMISSION CURRENT DENSITY OF SILICON CATHODES
FTD-TT-64-164/1&2 N64-30702 22-25

THERMODYNAMIC EQUILIBRIUM OF CRYSTAL SURFACES - LOW ENERGY ELECTRON DIFFRACTION TECHNIQUES AND FIELD ION EMISSION MICROSCOPY
AD-602105 N64-30770 22-25

MIGRATION, DESORPTION, AND VOLTAGE BREAKDOWN PROPERTIES OF CESIUM FILMS ON REFRACTORY ELECTRODES N64-30802 22-25

DESORPTION & MIGRATION OF STRONTIUM ON TUNGSTEN BY PULSED FIELD EMISSION MICROSCOPY
AD-421552 N64-31698 23-07

FIELD INTENSITY METER
ANALYSIS OF ELECTRON BEAM BY MAGNETIC DEFLECTION SYSTEM
SLAC-26 N64-19078 11-15

CALIBRATION AND PERFORMANCE CHARACTERISTICS OF FIELD INTENSITY METER
NBS-7971 N64-21175 14-15

FIELD INTENSITY METER /SUPERHETERODYNE MICROWAVE RECEIVER/ FOR MEASURING RADIO FREQUENCY FIELD STRENGTH
NBS-7970 N64-21184 14-08

INSTRUMENTATION TO INCREASE FREQUENCY RANGE OF FIELD INTENSITY METER N64-22825 16-09

SPECTRUM SIGNATURE MONITOR WITH FIELD INTENSITY RECEIVER FOR ELECTROMAGNETIC INTERFERENCE MEASUREMENTS N64-22845 16-09

FIELD STRENGTH METER FOR VERY LOW FREQUENCY WAVES
AFCRL-64-479 N64-28553 20-15

FIELD STRENGTH
DEGRADATION, PRODUCTION, AND FORMATION OF DIELECTRICS AS FUNCTION OF TEMPERATURE AND FIELD STRENGTH
AD-422096 N64-12826 04-09

BIREFRINGENCE AT CONSTANT FIELD INTENSITY AND VARIABLE TEMPERATURE OF POTASSIUM DIHYDROGEN & DI-DEUTERIUM PHOSPHATE CRYSTALS
E-T-G-63-20 N64-13030 04-25

SIMULATED FLIGHT TO PLOT FIELD STRENGTH OF MISSILE ANTENNA SYSTEMS
RG-TR-63-19 N64-13650 05-10

FIELD STRENGTH OF GEOMAGNETIC EQUATORIAL RING CURRENT
TG-198 N64-16485 08-12

MAGNETIC AND ELECTRIC FIELD ALIGNED PLASMA DIFFUSION IN THE IONOSPHERE TO EXAMINE CONDITIONS FOR AMBIPOLAR DIFFUSION
NASA-RP-155 N64-18504 10-24

FIELD STRENGTHS OF MAGNETIC DIPOLES IN CONDUCTING EARTH & PROPAGATION OF VERY LOW FREQUENCY WAVES IN SOLIDS AND LIQUIDS
AFCRL-64-144 N64-18586 11-12

AXISYMMETRIC MAGNETIC FIELD CONFIGURATION HAVING NONZERO MINIMUM FIELD INTENSITY
MATT-256 N64-19472 12-24

RADIO FREQUENCY INTERFERENCE - TRANSMITTER SPECTRUM SIGNATURE DATA AND RADIATED FIELD STRENGTH DATA FOR TRANSMITTER EMISSIONS N64-22827 16-09

MEASUREMENT OF ELECTROSTATIC FIELD INTENSITY AT ROCKET SURFACE IN ATMOSPHERIC FLIGHT
NASA-TT-F-8527 N64-23113 16-12

APPLICATION OF SURFACE FIELD STRENGTH MEASUREMENTS TO RADAR CROSS SECTION PREDICTION - RADAR REFLECTION PROPERTIES N64-24295 17-08

FIELD STRENGTH ON SURFACE OF STATIC AND MOVING BODY IN PLASMA AND OF BODY IN IONOSPHERE N64-29080 21-24

VERTICAL DIRECTION FINDING BY FIELD STRENGTH COMPARISON OF TWO FIXED EMITTERS OF DIFFERENT RADIATION PATTERNS
E-T-G-63-14 N64-31274 22-22

FIELD STRENGTH MEASUREMENTS AT HIGH FREQUENCY
RADC-TDR-64-106 N64-32116 23-08

DERIVATION OF CRITERIA FOR MAGNETIC BREAKDOWN IN SOLIDS VALID FOR ALL STRENGTHS OF MAGNETIC FIELD
TR-4 N64-32530 23-25

FIELD THEORY
SA QUANTUM ELECTRODYNAMICS
SA QUANTUM THEORY
CF RELATIVITY THEORY
CF UNIFIED FIELD THEORY
LOW-FREQUENCY FIELD THEORY EXTENSION TO FAR ZONE BY COMPLEX FUNCTIONS - GEOLOGICAL SURVEY N64-11489 03-23

APPROXIMATE FORMULA FOR LOW-FREQUENCY DIPOLE FIELD CURVES OF HORIZONTAL LAMELLAR STRUCTURE ABOVE POORLY CONDUCTING BASE - GEOLOGICAL SURVEY N64-11490 03-23

ANNOTATED BIBLIOGRAPHY - NONLINEAR FIELD THEORY
AID-B-63-115 N64-12596 04-23

CLASSIFICATION OF SPACES SUPPORTING GRAVITATIONAL FIELDS
NASA-CR-53026 N64-13286 04-20

SUPERCONDUCTOR PROPERTIES, NEUTRINO TWO-DIMENSIONAL FIELD THEORY MODELS, NUCLEON CALCULATIONS
AROD-280012 N64-13992 05-23

GEOPOTENTIAL FUNCTION OF EARTH GRAVITY FIELD AS GEODETIC REFERENCE SURFACE
NASA-CR-56078 N64-20640 13-12

MASS RENORMALIZATION IN QUANTUM FIELD THEORY
UR-875-40 N64-26262 18-23

MASS RENORMALIZATION IN QUANTUM FIELD THEORY
UR-875-49 N64-28272 20-23

INEQUIVALENCE THEOREM IN QUANTUM FIELD THEORY
ARL-64-169 N64-30955 22-23

PERTURBATION THEORY AND FEYNMAN DIAGRAMS APPLIED TO QUANTUM FIELD THEORY
ARL-64-169 N64-32450 23-23

FINITE QUANTUM ELECTRODYNAMICS- FIELD THEORY USING INDEFINITE METRIC
UR-875-54 N64-33429 24-23

FIGHTER AIRCRAFT
F-8 AIRCRAFT FLIGHT TEST SUMMARY
FT/F-8/-306 N64-12386 03-04

RADAR VECTORING OF FIGHTER AIRCRAFT
FTD-TT-63-606/1&2 N64-16429 08-08

MILITARY TECHNOLOGY FOR FIGHTER AIRCRAFT
FTD-TT-63-1130/1 N64-23099 16-04

NAVIGATION AIDS FOR FIGHTER AIRCRAFT IN PROTECTION OF GROUND FORCES
FTD-TT-62-1704/1 N64-23288 16-22

F-105F FIGHTER AIRCRAFT TRAINING SUITABILITY TEST
TAC-TR-63-20 N64-24077 16-04

GROUND MEASUREMENT OF SONIC BOOM PRESSURE FOR FIGHTER AND BOMBER AIRCRAFT AT STRATOSPHERIC ALTITUDES
NASA-TR-R-198 N64-24824 17-04

FIGURAL AFTEREFFECT
S VISUAL PERCEPTION

FIGURE OF MERIT
RELIABILITY ENGINEERING HANDBOOK - RELIABILITY FIGURE OF MERIT ANALYSIS, FAILURE MODE, COMPUTATIONS, AND MATHEMATICAL TABLES
TRA-873-74, REV. N64-17275 09-17

ACTIVATION ENERGY INDEX AS DESIGN FIGURE OF MERIT

FOR GO, NO-GO SYSTEM
DOUGLAS PAPER-1874 N64-26501 18-17

USE OF MATCHING TRANSFORMER TO INCREASE FIGURE OF MERIT OF TRANSISTOR AMPLIFICATION STAGES
N64-32911 24-09

FILAMENT
CF HEATING EQUIPMENT
GRAVITATIONAL STABILITY OF FILAMENTS IN GAS-DUST NEBULAE
MH-TRANS-421 N64-11628 03-05

FAILURE MODES OF FILAMENT REINFORCED MATERIALS INCLUDING INFLUENCE OF CONSTITUENT GEOMETRY AND PROPERTIES
NASA-CR-55192 N64-13181 04-34

RHENIUM-TUNGSTEN COILED FILAMENTS IN MAGNETIC FIELD OF STELLARATOR AND OPERATED UNDER PULSED AND STEADY CONDITIONS
MATT-229 N64-14144 05-23

BORON, BORON CARBIDE, & TITANIUM CARBIDE FILAMENTS PRODUCED BY VACUUM DEPOSITION - TENSILE TESTING OF SELECTED FILAMENT MATERIALS
BMPR-1 N64-14676 06-19

HYPERVELOCITY IMPACT OF COPPER FILAMENTS INTO ALUMINUM TARGETS
NASA-TN-D-1981 N64-14726 06-02

GROWTH OF SINGLE CRYSTAL TUNGSTEN FILAMENT AND VACUUM MEASUREMENTS OF ELECTRON EMISSION FROM FILAMENT N64-17904 10-23

SYNTHESIS OF BORON CARBIDE FILAMENTS
NASA-CR-53750 N64-19175 11-19

FILAMENTARY STRUCTURE OF SOLAR CORONA AND EFFECT ON DYNAMICS OF SOLAR WIND N64-19301 12-28

ATTRITION OF TANTALUM FILAMENTS OPERATING WITH ELECTRON-BOMBARDMENT ION SOURCES USING MERCURY PROPELLANT
NASA-TN-D-2173 N64-19483 12-27

APPARATUS FOR STRESS-RUPTURE TESTING OF FILAMENTS UNDER CONTROLLED CONDITIONS OF ATMOSPHERE, STRESS, AND TEMPERATURE
NASA-RP-165 N64-20019 13-15

SYNTHESIS OF BORON CARBIDE FILAMENT
NASA-CR-56101 N64-20688 13-25

CURVATURE AND TORSION OF ISOLATED VORTEX FILAMENT
ATN-64/9231/-4 N64-20824 14-24

WHISKER STRENGTH AND CRYSTAL STRUCTURE OF BORON CARBIDE FILAMENTS
NASA-CR-56230 N64-24112 16-19

DEPOSITION OF PYROLYTIC CARBON COATING ON YARN FILAMENT TO INCREASE STRENGTH
AD-437595 N64-24174 16-18

RADIATION AND ACCOMMODATION COEFFICIENTS OF TUNGSTEN BY HOT FILAMENT METHOD
N64-26973 19-15

QUALITY CONTROL OF FILAMENT GROWTH FOR VOLTAGE TUNABLE MAGNETRON
QPR-7 N64-27073 19-17

EPOXY RESIN RESEARCH FOR IMPROVEMENT IN FILAMENT REINFORCED PLASTICS
QPR-4 N64-27750 19-07

GROWTH AND TENSILE STRENGTH TESTING OF BORON AND BORON COMPOSITE FILAMENTS
NASA-CR-96 N64-28315 20-18

VAPOR AND VACUUM DEPOSITION TECHNIQUES FOR DEVELOPMENT OF HIGH STRENGTH FILAMENTARY MATERIALS
NASA-CR-58696 N64-28837 20-17

GROWTH AND PROPERTIES OF FILAMENTARY SINGLE CRYSTALS OF PURE METALS - COPPER, SILVER, GOLD, AND ALUMINUM
ASD-TDR-63-641 N64-29250 21-25

ACTIVE DARK FILAMENTS AND TYPE III BURSTS
N64-30275 22-28

FIBER PATTERNS FOR UNIFORM TENSION IN SPINNING FILAMENTARY DISK
NASA-CR-106 N64-31203 22-33

GROWTH AND MECHANICAL PROPERTIES OF BORON CARBIDE FILAMENTS
NASA-CR-59381 N64-33920 24-07

FILAMENT WINDING
COMPOSITE BEHAVIOR OF FILAMENT-WOUND STRUCTURAL MATERIALS
IAC PAPER-139 N64-12005 03-19

FILAMENT WOUND PRESSURE VESSEL STRUCTURAL PERFORMANCE AND RELIABILITY - POLARIS PROGRAM
REPT.-0627-I-3 N64-12334 03-33

MATERIAL TESTING OF GLASS ROVING FOR FILAMENT WINDING
AD-419158 N64-12338 03-34

HYDROSTATIC TESTING OF STRUCTURAL STABILITY OF FILAMENT WOUND SPHERICAL CHAMBERS - POLARIS MISSILE PROJECT
AD-424062 N64-12339 03-33

FILAMENT WOUND BOTTLES AND POLARIS MOTOR CASES - TESTING FOR FLAW EFFECTS, WINDING SEQUENCE EFFECT, AND REPAIR TECHNIQUE RELIABILITY
GER-11154/S3 N64-13307 04-34

EFFECT OF REPEATED LOADING ON FILAMENT WOUND INTERNAL PRESSURE VESSELS
TECH. MEMO-229 N64-13893 05-33

FILAMENT WOUND ROCKET MOTOR CASES - MATERIALS, WINDING TECHNIQUE, PROCESS CONTROL, & TEST METHODS
AD-425147 N64-14314 06-34

HYDROSTATIC TESTING FOR COMPARATIVE STUDY BETWEEN CHAMBER WINDING PATTERNS AND CHAMBER BEHAVIOR - FILAMENT WOUND PRESSURE VESSELS
REPT.-0627-I-4 N64-15696 07-34

RESIN SYSTEMS FOR FILAMENT-WOUND STRUCTURES
REPT.-0627-VI-4 N64-16568 08-19

IMPROVING UNIFORMITY AND STRENGTH IN IMPREGNATED ROVING FOR FILAMENT-WOUND ROCKET CHAMBERS
BMR-5 N64-18265 10-19

IMPROVED FILAMENT-WOUND CONSTRUCTION FOR CYLINDRICAL PRESSURE VESSELS - STRESS ANALYSIS
ML-TDR-64-43, VOL. 1 N64-18870 11-33

HIGH STRENGTH IMPREGNATED ROVING FOR FILAMENT WINDING
REPT.-0627-V-4 N64-19049 11-19

DATA FOR PERFORMING STRESS ANALYSES & DETERMINING DESIGN PARAMETERS FOR FILAMENT-WOUND CYLINDRICAL PRESSURE VESSELS
REPT.-2784 N64-19065 11-33

STRUCTURAL PERFORMANCE AND RELIABILITY OF FILAMENT WOUND PRESSURE VESSELS
REPT.-0627-I-5 N64-19413 12-34

STRUCTURAL PROPERTIES OF FIBERGLASS FILAMENT WOUND PRESSURE VESSELS AT CRYOGENIC TEMPERATURES
NASA-CR-53826 N64-19619 12-33

EFFECTS OF MECHANICAL DAMAGE ON PERFORMANCE OF FILAMENT WOUND MOTOR CASES
GER-11154/S5 N64-20180 13-34

CURED ORGANIC RESIN SYSTEMS FOR FILAMENT WOUND STRUCTURES
REPT.-0627-VI-5 N64-20541 13-19

EPOXY RESINS FOR FILAMENT WOUND MOTOR CASES OF POLARIS MISSILE N64-21991 15-19

INTERLAMINAR SHEAR STRENGTH OF FILAMENT-WOUND

REINFORCED PLASTICS
QPR-1 N64-22292 15-17

INTERLAMINAR SHEAR OF FILAMENT-WOUND PLASTICS
QPR-2 N64-22293 15-33

INTERLAMINAR SHEAR OF FILAMENT-WOUND REINFORCED PLASTICS
QPR-3 N64-22294 15-33

LINER MATERIALS FOR FILAMENT WOUND FIBERGLASS CRYOGENIC VESSELS N64-23200 16-19

MOLECULAR STRUCTURE AND TENSILE PROPERTIES OF FILAMENT WOUND PLASTICS
NRL-6047 N64-23247 16-19

GLASS FILAMENT WOUND STRUCTURES AND COMPOSITE MATERIALS IN POLARIS MODEL A3 CHAMBERS
REPT.-3888-31M-5, ADDEND. N64-25350 17-27

ULTRASONIC TESTING OF FILAMENT WOUND REINFORCED RESIN GLASS STRUCTURES
ML-TDR-64-117 N64-26228 18-33

EFFECT OF MECHANICAL DAMAGE ON PERFORMANCE OF FILAMENT-WOUND MOTOR CASES
GER-11623 N64-27964 20-27

ELASTIC ANALYSIS OF FILAMENT WOUND PRESSURE VESSELS - CONTRIBUTION OF RESIN TO STRENGTH OF COMPOSITE
REPT.-1 N64-28123 20-34

EFFECTS OF MATERIALS AND PROCESSING VARIABLES ON FILAMENT WOUND STRUCTURES
QPR-0827-02-2 N64-28507 20-17

GLASS FILAMENT WOUND GROMMET TO PROTECT ROTATING BAND OF PROJECTILE
TR-1155 N64-29305 21-17

NOTCHED FLAT PANEL TEST FOR COMPRESSIVE STRENGTH OF FILAMENT WOUND PLASTIC STRUCTURAL MATERIALS
PR-5 N64-29373 21-33

GLASS FIBER REINFORCEMENTS FOR FILAMENT WOUND COMPOSITE STRUCTURES
TR-64-8-104 N64-29555 21-17

CYLINDRICAL FILAMENT WOUND PRESSURE VESSELS REDESIGNED WITH ISOTENSOID DOME ENDS TO REDUCE WEIGHT AND STRESS FAILURE
AD-600215 N64-29614 21-34

WETTING BEHAVIOR OF EPOXY RESINS ON GLASS FILAMENTS - FILAMENT WINDING
NRL-6140 N64-29961 21-19

CREEP AND FATIGUE LIFE IN FILAMENT WOUND LAMINATES
AD-602495 N64-30061 21-19

PRODUCTION & HYDROSTATIC PRESSURE TEST OF GLASS FIBER FILAMENT WOUND CYLINDER
QR-8 N64-30464 22-34

INTERLAMINAR SHEAR STRENGTH OF FILAMENT-WOUND REINFORCED PLASTICS
AD-603565 N64-32196 23-19

STRUCTURAL RELIABILITY OF FILAMENT WOUND PRESSURE VESSELS - WINDING PATTERNS AND DEFORMATION CONTROL
REPT.-0627-1-F N64-33741 24-33

FILLER
SA PRIMER
EFFECT OF RESIN COMPOSITION AND FILLERS ON PERFORMANCE OF MOLDED CHARRING ABLATOR IN SUBSONIC ARC JET
NASA-TN-D-2024 N64-11553 03-13

TENSILE STRENGTH OF REINFORCED HIGH TEMPERATURE ELASTOMERS IMPROVED BY USE OF CHEMICALLY MODIFIED FILLERS
AD-405893 N64-12816 04-07

FILLER MATERIAL AND PRODUCT LENGTH EFFECTS ON LARGE DIAMETER FINE GRAIN GRAPHITE FOR AEROSPACE APPLICATIONS
WADD-TR-61-72, VOL. XII, SUPPL N64-26893 18-19

RHEOLOGICAL BEHAVIOR OF FILLED ELASTOMER - POLYURETHANE RUBBER FILLED WITH GRANULAR POTASSIUM CHLORIDE
TR-23 N64-28582 20-26

WELDING TECHNIQUES AND FILLER METALS FOR HIGH STRENGTH ALUMINUM ALLOYS
NASA-CR-58536 N64-29705 21-18

FILLER-RUBBER SYSTEMS WITH CHEMICAL MODIFICATIONS OF SILICA & FIBROUS TALC EVALUATED AS HIGH TEMPERATURE ELASTOMERS
AD-447815 N64-33673 24-19

FILM
SA METAL FILM
SA PHOTOGRAPHIC FILM
SA THIN FILM
CF COATING
CONTINUOUS EVAPORATED FILM CRYOELECTRIC MEMORY DEVICES
RADC-TDR-63-351 N64-12047 03-09

POLYMER FILMS FOR SEPARATORS IN SILVER OXIDE-ZINC & SILVER OXIDE-CADMIUM CELLS FOR SPACECRAFT
NASA-CR-52479 N64-12152 03-06

EPITAXY DEPOSITED STOICHIOMETRIC FILMS BY FLASH EVAPORATION
AFCRL-63-524 N64-13675 05-25

GROWTH OF SINGLE CRYSTAL GERMANIUM FILMS BY ELECTRON BEAM MELTING
NASA-CR-55315 N64-13913 05-25

CODED BIBLIOGRAPHY OF EPITAXIAL FILM CHARACTERISTICS
BMPR-1 N64-13961 05-25

ANNOTATED BIBLIOGRAPHY OF EXPLODING WIRES, FILMS, AND RIBBONS
AID-B-63-78 N64-15525 07-23

ADAPTATION AND EXTENSION OF INFRARED ABSORBANCE RATIO METHOD FOR ESTIMATION OF VACUUM DRIED FILMS OF NITROGEN RESIN MODIFIED PHTHALIC ALKYD RESINS
CCL-153 N64-16464 08-17

AERODYNAMIC SPATTERING IN ABLATION OF LIQUID FILMS AS RELATED TO SURFACE TENSION
RR-TR-63-24 N64-16471 08-13

SORPTION OF GASES BY VAPOR-DEPOSITED TITANIUM FILMS
ORNL-3481 N64-16526 08-23

IMAGE RECORDING AND DISPLAY OF CATHODE RAY TUBE INFORMATION BY SURFACE DEFORMATION OF REUSABLE PHOTOCONDUCTIVE THERMOPLASTIC FILM
RADC-TDR-63-532 N64-18866 11-15

SPRAY PROCESS IN PREPARATION OF CATHODOLUMINESCENT FILMS
AL-TDR-64-15 N64-19102 11-25

FRICTION COEFFICIENTS OF SOLID FILM LUBRICANTS FOR SPACE ENVIRONMENT
NASA-CR-53835 N64-19596 12-17

EFFECT OF COBALT 60 IRRADIATION ON WEAR LIFE OF SOLID FILM LUBRICANTS
FTDR-3006 N64-20047 13-17

EFFECTS OF RADIATION & HIGH TEMPERATURE ON CERAMIC BONDED FILM LUBRICANT MATERIALS
FTDR-3053 N64-20049 13-17

PAINT AND FILM REMOVAL FROM STEEL AND ALUMINUM SURFACES
CCL-159 N64-20321 13-17

REDUCTION OF ANISOTROPY FIELD OF THIN MAGNETIC FILMS BY ANNEALING
NADC-EL-6369 N64-21340 14-25

PHOTOCONDUCTOR IMAGING TECHNIQUE WITH THERMOPLASTIC STORAGE

RL-64-6 N64-22273 15-15

LOW POWER MAGNETIC FILM MEMORIES
AD-419342 N64-22533 15-09

PANCHROMATIC SENSITIZATION OF EVAPORATED FILMS OF SILVER BROMIDE
AL-TDR-64-117 N64-22688 15-07

DEPOSITION OF PHOSPHOR CATHODOLUMINESCENT FILM BY SOLUTION SPRAY TECHNIQUE
IER-3 N64-25324 17-17

PRODUCTION METHODS FOR RESISTORS, USING RESISTIVE FILMS
AD-600753 N64-26617 18-17

REFRACTIVE INDEX, VACUUM COATING, AND CRYSTAL GROWTH OF LEAD CHLORIDE, ZINC TELLURIDE, AND LITHIUM FLUORIDE FILMS
AD-600264 N64-26622 18-25

FILM PROTECTED CONVECTIVELY COOLED NOZZLES
U-2621 N64-26977 19-02

HEAT TRANSFER DURING FILM CONDENSATION OF LIQUID METAL VAPOR
TR-9167-27 N64-28687 20-13

MAGNETIC THIN FILM PARAMETRON LOGIC ELEMENTS
REPT.-5 N64-28775 20-09

THIN FERROMAGNETIC FILM FOR LOGIC CIRCUITS - FLUX TRANSFER - MEASUREMENT OF FILM THICKNESS AND PROPERTIES
NASA-CR-58559 N64-29358 21-09

MICROELECTRONIC SYSTEMS - TRAINABLE SELF-ADAPTIVE SYSTEMS, DEVICES, SEMICONDUCTOR FABRICATION, AND HOT ELECTRONS IN METAL FILMS
SU-SEL-64-037 N64-29748 21-09

POLYCARBONATE LACQUER FILM CAPACITORS
QPR-21 N64-29948 21-17

THICKNESS AND COMPOSITION OF VACUUM-DEPOSITED NICKEL-CHROMIUM FILMS BY OPTICAL INTERFEROMETRY AND CHEMICAL MICROANALYSIS
USAELRDL-TR-2419 N64-29990 21-18

STOCHASTIC MATRIX STORAGE & PROCESSING USING THERMOPLASTIC & OIL FILM TECHNIQUES
AFCRL-64-294 N64-30568 22-23

PHOTOVOLTAGES IN SILICON AND SILICON CARBIDE FILMS AND ORIGIN FROM TRAP-INDUCED SPACE CHARGE
NASA-RP-315 N64-30608 22-25

ULTRAHIGH VACUUM APPARATUS TO MEASURE ELECTRICAL PROPERTIES OF THIN FERROMAGNETIC LAYERS
FTD-TT-64-347/1&2 N64-31108 22-25

RAPID RESPONSE INSTRUMENTATION FOR TURBULENT FLUX MEASUREMENT IN BOUNDARY LAYER AND FILM READER SYSTEM - ANALOG STATISTICAL ANALYZER
AFCRL-64-147 N64-31846 23-15

COHERENT LIGHT-RECORDING TECHNIQUE TO ACHIEVE HIGH PACKING DENSITIES USING PHOTOGRAPHIC AND THERMOPLASTIC FILMS
RADC-TDR-64-203 N64-31909 23-25

ANISOTROPY AND MAGNETIZATION REVERSAL IN FACE-CENTERED-CUBIC SINGLE CRYSTAL COBALT FILMS
AFCRL-64-420 N64-31986 23-25

EFFECT OF DIRECT CURRENT /DC/ CORONA DISCHARGES ON THIN FILMS OF RADIOACTIVE POLYETHYLENE-TYPE MATERIALS N64-32755 24-19

ANALOG COMPUTER SOLUTION OF EQUATIONS OF PARAMETRON WITH FERROMAGNETIC FILMS N64-32912 24-09

LIQUID FILM EVAPORATION DURING NUCLEATE BOILING
NASA-TN-D-1997 N64-33079 24-13

TENSILE DEVICE TO MEASURE STRESS-STRAIN ON FREE EPITAXIAL FILMS
BMPR-5 N64-33450 24-18

MODIFIED FILM DEVELOPING PROCEDURES FOR PRODUCING COLOR RADIOGRAPHS
WVT-II-6410 N64-33894 24-19

FILM BOILING
CF VAPOR
FILM BOILING IN VERTICAL TUBE WITH UPWARD FLOW OF SATURATED LIQUID
MIT-TR-9079-26 N64-14518 06-13

CORRELATION OF FILM-BOILING HEAT TRANSFER COEFFICIENTS OBTAINED WITH LIQUID HYDROGEN, NITROGEN, AND FREON IN FORCED FLOW
NASA-TN-D-2294 N64-20284 13-13

FILM BOILING STUDY OF TEMPERATURE DIFFERENCE BETWEEN HEATER SURFACE AND SATURATED FLUID FOR FREON 113, PENTANE, AND ETHANOL N64-24382 17-13

FILM BOILING OF SATURATED LIQUID FLOWING UPWARD THROUGH HEATED TUBE
TR-9857-32 N64-33589 24-13

FILM THICKNESS
TEMPERATURE EFFECT ON VISCOSITY AND FILM THICKNESS OF EC776SR DIP APPLIED TO ALUMINUM PANELS
A486 N64-17144 09-19

FILM THICKNESS AND DYNAMIC PRESSURE VARIATIONS IN RADIAL FACE PUMP SEALS N64-19023 11-17

MECHANICAL PROPERTY CHANGES OF ALUMINUM ALLOYS WITH INCREASING THICKNESS OF OXIDE FILM FORMED BY ANODIZATION N64-20921 14-18

WEIGHT AND THICKNESS DETERMINATION OF OXIDE FILMS ON ANODIZED TITANIUM N64-20922 14-07

SUMMARY AND BIBLIOGRAPHY ON VARIOUS METHODS OF VOID FRACTION AND FILM THICKNESS MEASUREMENT
DSR 8734-2 N64-26011 18-23

COMPUTER SOLUTION FOR HYDROSTATIC BEARINGS WITH VARIABLE FILM THICKNESS
NASA-CR-56898 N64-27280 19-28

FILTER
CF SEPARATOR
PARTICLE AGGLOMERATION EFFECT ON PENETRATION BY RADIOACTIVE MATERIAL OF FILTERS USED WITH NUCLEAR REACTOR DOUBLE CONTAINMENT SYSTEMS
ORNL-RSIC-1 N64-10210 01-23

URANIUM AND PLUTONIUM REMOVAL AS HEXAFLUORIDES BY FLUID-BED VOLATILITY FLUORINATION PROCESS
ANL-6742 N64-10217 01-19

AEROSOL PENETRATION THROUGH 9-MIL FILTER PAPER WITH AND WITHOUT PINHOLES
HASL-139 N64-10312 01-11

INSERTION LOSS DESIGN OF CRYSTAL FILTERS USING LOW PASS PIEZOELECTRIC QUARTZ CRYSTALS
RADC-TDR-63-402 N64-10537 01-09

ELECTRONIC FREQUENCY FILTERS AND NETWORKS DESIGN - LOW-PASS, HIGH-PASS, BANDPASS, AND BAND-ELIMINATION
TR-62-11 N64-11286 02-09

MATHEMATICAL STUDY OF LINEAR FILTER DEVICES FOR TRANSFORMING INPUT INTO OUTPUT

NH-TRANS-425 N64-11571 03-09

RECTIFIERS AND SMOOTHING FILTERS, REGULATORS & VOLTAGE STABILIZERS, AND ELECTRIC CIRCUITS
FTD-TT-63-245 N64-12633 04-06

PULSE FREQUENCY MODULATION TELEMETRY - CODING, NOISE ANALYSIS, FILTERS, SIGNAL-TO-NOISE RATIOS
NASA-TR-R-189 N64-12695 04-08

ERROR ANALYSIS OF SPACE VEHICLE TRAJECTORY NAVIGATION SYSTEM BY LINEAR FILTER THEORY
NASA-TN-D-2129 N64-12718 04-29

ELECTRONIC FILTER WITH PARALLEL TUBE - DEPENDENCE OF COEFFICIENT OF FILTRATION ON GRID BIAS, CAPACITANCE, RESISTANCE, & VOLTAGE
N64-12737 04-09

QUARTZ CRYSTALS FOR FILTER APPLICATION AT 30, 45, AND 60 MEGACYCLES - EVALUATION
AD-423885 N64-13124 04-15

INTERFERENCE POLARIZATION FILTER FOR INVESTIGATION OF SUN IN K-LINE OF IONIZED CALCIUM
N64-13691 05-23

WIDEBAND ELECTRONICALLY TUNABLE YTTRIUM-IRON GARNET NONRECIPROCAL FILTERS
W-J-63-609R20 N64-14371 06-09

EXPERIMENTAL ULTRAFILTRATION SYSTEM FOR RECOVERING POTABLE WATER FROM URINE USING MEMBRANE FILTERS
AMRL-TDR-63-113 N64-14695 06-16

MATHEMATICAL MODEL OF SEPARATION PROCESSES IN MASS FILTERS FOR MASS SPECTROSCOPY
DVL-298 N64-15029 07-15

DISCRETE FILTERS FOR DIGITAL DATA
N64-15481 07-20

NORMAL EQUATION FORMS FOR OPTIMUM FILTERING PROBLEMS N64-15482 07-20

TUNABLE FILTER EMPLOYING NUCLEAR MAGNETIC RESONANCE
RADC-TDR-63-526 N64-15822 07-18

DETECTION AND MEASUREMENT OF CYCLE SKIPPING AND PHASE OFFSETS IN FREQUENCY MULTIPLYING PHASE-LOCK FILTERS N64-16168 08-09

RADIOFREQUENCY FILTER TO PROTECT ORDNANCE AGAINST HAZARD OF ELECTROMAGNETIC RADIATION INDUCED FIRING
NAVWEPS-7805, REV. 1 N64-16468 08-09

PRECISION OF OPTIMUM FILTER K - MINIVAR
N64-18237 10-20

APPLICATION OF STOCHASTIC DIFFERENTIAL EQUATIONS TO OPTIMAL NONLINEAR FILTERING IN CONTROL THEORY
NASA-CR-53567 N64-18447 10-20

ELECTRONICALLY TUNED MICROWAVE FILTER USING SPHERE OF YTTRIUM-IRON GARNET AS TUNABLE RESONANT CIRCUIT
RE-TR-63-26 N64-19052 11-09

RADIO FREQUENCY REJECTION FILTER FOR CONTINUOUS WAVE INTERFERENCE IN COMMUNICATION SYSTEMS
RADC-TDR-64-104 N64-20033 13-09

AUDIO PULSE CANCELLATION FILTER - RADIO FREQUENCY COMMUNICATION APPLICATION
RADC-TDR-64-105 N64-20034 13-08

PARTICLE-TO-GAS HEAT TRANSFER OF ZIRCONIUM CARBIDE BEDS FLUIDIZED BY HELIUM OR ARGON
LA-3061 N64-20695 13-13

FIVE-REACTANCE-ELEMENT FILTER FOR BROADBAND COMPENSATION DESIGN
PIBMRI-1218-64 N64-21150 14-09

AIR FILTER MEDIA USED FOR MONITORING AIRBORNE RADIOACTIVITY
NRL-6054 N64-21177 14-15

COMPATIBILITY OF POLYETHYLENE FILTER MEMBRANES WITH LIQUID PROPELLANTS AND SOLVENTS
RPL-TDR-64-38 N64-21452 14-19

PRODUCTION ENGINEERING ON CERAMIC RADIO FILTERS
REPT.-4 N64-21469 14-09

TRACKING NOTCH FILTER FOR REJECTION OF CONTINUOUS WAVE INTERFERENCE N64-22826 16-09

WIDE STOP-BAND FILTER FOR HIGH POWER S-BAND RADAR
N64-22832 16-09

FILTER INSERTION LOSS AS FUNCTION OF GENERATOR LOAD AND FILTER IMPEDANCES N64-22833 16-09

PLASTIC COATINGS ON FLUIDIZED BED
PLASTEC-13 N64-23136 16-19

GAS FLOW CALCULATIONS FOR FLUIDIZED-BED COATING OF NUCLEAR FUEL PARTICLES
ORNL-3639 N64-23262 16-23

ELECTRICALLY TUNED FILTERS USING YTTRIUM-IRON-GARNET AND GALLIUM-DOPED YTTRIUM-IRON GARNET RESONATORS
W-J-64-609R24 N64-23961 16-09

EFFECT OF MIXING OF MATERIAL IN FLUIDIZED BED ON HEAT TRANSFER BETWEEN GAS AND PARTICLES
MCL-1289/1&2&4 N64-23965 16-13

SYNTHESIS OF OPTIMUM LINEAR FILTRATION SYSTEMS
FTD-TT-63-1108/1&2&4 N64-24280 17-06

ABSORPTION BED, CATALYTIC BURNER, AND FILTERING SYSTEM FOR TRACE CONTAMINANT REMOVAL
N64-24626 17-16

OUTPUT AMPLITUDE PROBABILITY DENSITY FUNCTION OF FILTER EXCITED BY PULSE TRAINS
RR-64-1 N64-25114 17-23

LOW PASS FILTERS FOR PNEUMATIC AMPLIFIERS WITH POSSIBLE APPLICATIONS TO PURE FLUID AMPLIFIERS
N64-25267 17-11

NARROW BANDWIDTH OPTICAL FILTERS FOR ULTRAVIOLET AND VISIBLE LIGHT SPECTROPHOTOMETRY
ASD-TDR-63-523 N64-25486 17-08

HEAT AND MASS TRANSFER FROM EXCHANGE SURFACE TO GAS-FLUIDIZED-BED OF SOLID PARTICLES
ANL-6807 N64-27518 19-13

ENERGY TRAPPING THEORY FOR MULTIELECTRODE RESONATOR DESIGN - VERY HIGH FREQUENCY FILTER CRYSTAL DEVELOPMENT
QR-3 N64-27696 19-09

PRODUCTION METHODS FOR OVERTONE FILTER CRYSTALS
QR-7 N64-27848 19-17

VERY HIGH FREQUENCY QUARTZ CRYSTAL FILTER DESIGNS USING INDUCTIVELY COUPLED LATTICE EQUIVALENT TECHNIQUE
USAELRDL-TR-2425 N64-27923 20-09

DESIGN AND FABRICATION OF OPTICAL FILTERS FOR LASER FREQUENCY - MICA SPACER INTERFERENCE FILTER
QPR-2 N64-28144 20-25

SHORT WAVELENGTH REJECTION FILTER TRANSMITTING IN 8 TO 14 MICRON WAVELENGTH REGION
WRE-TN-CPD-87 N64-28513 20-07

APPLICATION OF OPTIMAL LINEAR FILTERING THEORY TO ESTIMATION OF PITCH ATTITUDE OF ORBITING SPACECRAFT - HORIZON SCANNER
SSD-TDR-64-147 N64-28539 20-09

PERFORMANCE DATA ON FILTER CRYSTALS
USAELRDL-TR-2443 N64-28603 20-25

EMPTY VISUAL FIELD STUDY - EFFECTS OF CORRECTIVE FILTERS AND STRUCTURES

NAVTRADEVCEN-IH-14 N64-28902 20-14

MULTIFILTER SYSTEM FOR RECOVERING POTABLE AND WASH WATER FROM CABIN AIR DEHUMIDIFIERS
N64-28949 20-16

NOISE INTENSITY EFFECT ON PERFORMANCE OF LINEAR AND NONLINEAR NO-MEMORY FILTERS
NASA-CR-56838 N64-29198 21-08

QUARTZ CRYSTAL FILTERS FOR 70 TO 150 MC RANGE
REPT.-523-1000615-00152M N64-29395 21-09

IGNITION AND COMBUSTION PROPERTIES OF ACTIVATED CARBON CONTAINING ADSORBED HYDROCARBONS FOR SUBMARINE AIR FILTERS
NRL-6090 N64-29955 21-26

SPECTRAL ANALYSIS AND LINEAR FILTERING PERFORMED BY COHERENT OPTICAL SYSTEMS IN DATA REDUCTION
REPT.-2900-466-R N64-30587 22-08

DESIGN, CONSTRUCTION, AND EVALUATION OF MATCHED PULSE CODE WIDEBAND FILTER
RR-EERL-6 N64-30633 22-08

SINGLE MEASUREMENT ACCURACY OF RADAR RANGE USING NONOPTIMUM FILTER IN RECEIVER
TM-97 N64-30639 22-08

QUARTZ FREQUENCY FILTERS
FTD-TT-64-363/162 N64-30704 22-09

PRODUCTION ENGINEERING MEASURE FOR CERAMIC FILTERS
REPT.-5 N64-30967 22-17

OPTIMUM LINEAR FILTERING FOR DISCRETE LINEAR PROCESSES IN PRESENCE OF CORRELATED MEASUREMENT NOISE
TDR-469/5540-10/-1 N64-31634 23-08

OUTPUT TIME FUNCTION OF LINEAR-FREQUENCY MODULATION-PULSE COMPRESSION FILTER
TM-03984 N64-31889 23-08

GLOTRAC TYPE G TRANSPONDER - ELECTROMAGNETIC INTERFERENCE, FILTER REDESIGN, POWER SUPPLY, AND RECEIVED SIGNAL STRENGTH CIRCUIT
GD/A-63-1195/C/, VOL. II N64-31984 23-08

ADAPTIVE FILTER FOR DETECTION AND RECOGNITION OF RANDOM BINARY SIGNALS
EERL-7 N64-32062 23-08

CRITICAL VISUAL FIELD OF EXPLOSIVE-ACTUATED LENS FILTER /ELF/ HELMET AND VISOR SYSTEM FOR FLASH BLINDNESS PREVENTION
MR-64-1 N64-32299 23-16

ANALYSIS OF OPTICAL INTERFERENCE FILTER CONSTRUCTED IN WAVEGUIDE MEDIUM
NASA-CR-59160 N64-33178 24-23

AUTOMATIC SYNTHESIS COMPUTER PROGRAM IN FORTRAN FOR OPTIMAL FILTERS AND OPTIMUM CONTROL SYSTEMS
NASA-CR-58829 N64-33222 24-20

ABNORMAL CHARACTERISTICS OF INTERFERENCE FILTERS FOR USE AS STANDARDS IN WAVELENGTH CALIBRATION OF SPECTROPHOTOMETERS
NAVWEPS-8550 N64-33753 24-15

ACOUSTIC FILTER WITH RUBBER SPRING ELEMENTS FOR ATTENUATING TRANSMITTED SOUND IN SHIPBOARD SYSTEMS
REPT.-165-34 N64-33754 24-17

FILTRATION
INTERNAL COMBUSTION ENGINE FUEL FILTRATION PROCESSES & MATERIALS, AND METHODS FOR DIESEL APPLICATION
JPRS-17826 N64-10724 02-26

URINE ULTRAFILTRATION FOR WATER RECOVERY USING MEMBRANE FILTERS
NASA-CR-51575 N64-11383 02-16

EXPERIMENTAL ULTRAFILTRATION SYSTEM FOR RECOVERING POTABLE WATER FROM URINE USING MEMBRANE FILTERS
AMRL-TDR-63-113 N64-14695 06-16

GRAVITY FLOW FILTERABILITY OF DISTILLATE FUELS
NRL-5971 N64-15072 07-17

DATA FILTERING USED TO IMPROVE FREQUENCY RESPONSE
N64-15319 07-20

DIGITAL FILTERING TECHNIQUES APPLIED TO DATA PROCESSING N64-15320 07-09

MESSAGE CODING, SIGNAL FILTERING, AND INFORMATION THEORY FOR SPACE COMMUNICATIONS
N64-17196 09-09

WATER RECOVERY FROM URINE BASED ON ULTRAFILTRATION AFTER ELECTROLYTIC UREA REMOVAL
NASA-CR-58700 N64-29503 21-07

FIN
CF CONTROL SURFACE
CF STABILIZER
OPTIMUM FORM OF RADIATING FINS
JPRS-17512 N64-10691 02-23

OPTIMUM FORM FOR RADIATION-COOLED HEAT-CONDUCTING FINS N64-10692 02-23

IRRADIATION OF HEAT CONDUCTING FINS IN RELATION TO OPTIMUM FORM N64-10693 02-23

LONGITUDINAL HEAT CONDUCTION AND RADIANT INTERCHANGE BETWEEN NONISOTHERMAL FINITE SURFACES IN FIN-TUBE RADIATORS
NASA-TN-D-2077 N64-11193 02-13

JOINING & ENVIRONMENTAL TESTING OF RADIATOR TUBE-FIN SAMPLES OF VARIOUS METALS
ERR-FW-115 N64-12664 04-18

RADIANT BLACK BODY HEAT REJECTION AND WEIGHT CHARACTERISTICS OF FIN TUBE SPACE RADIATORS WITH LINEARLY TAPERED FINS
NASA-TN-D-2168 N64-15847 07-13

AERODYNAMIC FORCES ON COMBINATION OF WING AND FIN OSCILLATING IN SUBSONIC FLOW
SAAB-TN-54 N64-20427 13-03

REDUCTION OF NEUTRAL POINT MIGRATION EFFECTS BY INTRODUCING GAP BETWEEN FIN AND BODY OF FIN STABILIZED MISSILES
RF-TR-64-6 N64-20456 13-02

HEAT REJECTION & WEIGHT CHARACTERISTICS OF RADIATOR FIN-TUBE CONFIGURATIONS
NASA-TN-D-2385 N64-25605 17-13

HEAT TRANSFER ON UNSWEPT AND SWEPT CYLINDRICALLY BLUNTED WEDGE FINS IN FREE FLIGHT AT SUPERSONIC SPEEDS
NASA-TN-D-2386 N64-26774 18-13

ANNOTATED BIBLIOGRAPHY OF AERODYNAMIC CHARACTERISTICS OF BODIES OF REVOLUTION WITHOUT FINS
SB-63-75 N64-27793 19-02

ROLL CONTROL DEVICES EMPLOYED ON FIN-STABILIZED VEHICLES
NASA-TR-R-197 N64-28025 20-03

PRODUCTION ENGINEERING OF METAL PARTS FOR LITTLEJOHN ROCKET MOTOR WITH FIN AND FIN BARREL ASSEMBLY
TR-3168 N64-28822 20-17

TRANSONIC WIND TUNNEL TESTS TO DETERMINE NOSE CONE AND FIN TAB EFFECT ON ZERO LIFT DRAG OF PRACTICE BOMB
DTMB-AERO-1078 N64-32040 23-02

HEAT TRANSFER TESTS ON SHOCK WAVE GENERATORS & THERMOCOUPLE AND STAINLESS STEEL FINS IN HYPERSONIC WIND TUNNEL
NASA-CR-58836 N64-33219 24-13

FINENESS RATIO
SUPERSONIC AERODYNAMIC CHARACTERISTICS OF SERIES OF BODIES WITH VARIATIONS IN FINENESS RATIO AND CROSS-SECTION ELLIPTICITY

NASA-TN-D-2389 N64-26775 18-02

FINGER
FINGER DEXTERITY OF PRESSURE-SUITED SUBJECTS WITH AND WITHOUT GLOVES
AMRL-TDR-64-41 N64-27444 19-16

FINISH
$ COATING
$ GLAZE
$ MACHINING
$ PAINT
$ PLATING
$ PRIMER
$ SURFACE FINISH

FINITE DIFFERENCE METHOD
NUMERICAL SOLUTION OF NONLINEAR EQUATIONS IN FINITE DIFFERENCES AND APPLICATION TO ORBITAL CALCULATION FOR ARTIFICAL EARTH SATELLITES
NH-TRANS-365 N64-14714 06-29

FINITE DIFFERENCE CALCULATION OF HYPERSONIC AIR WAKES N64-15643 07-11

CALCULATION OF LAMINAR BOUNDARY LAYER IN AXI-SYMMETRIC FLOW BY FINITE DIFFERENCE METHOD
NOLTR-63-261 N64-16070 07-11

FINITE DIFFERENCE METHOD SOLUTION OF NONSIMILAR, NONEQUILIBRIUM AIR, LAMINAR AND TURBULENT BOUNDARY LAYER FLOW
TECH. REPT.-422 N64-19553 12-11

COMPUTER PROGRAM FOR FINITE DIFFERENCE METHOD SOLUTION OF NONSIMILAR, NONEQUILIBRIUM AIR, LAMINAR AND TURBULENT BOUNDARY LAYER FLOWS
GASL-TR-422 N64-19554 12-11

APPLICATION OF FINITE DIFFERENCE METHOD TO NONLINEAR BOUNDARY VALUE PROBLEMS IN MINIMAL SURFACES, GEODESICS, AND SUBSONIC FLOWS
NRC-466 N64-20340 13-20

FINITE DIFFERENCE METHOD FOR SOLVING SPACE-TIME DIFFUSION EQUATION IN TWO-GROUP APPROXIMATION
EUR-596.E N64-20833 14-20

INEQUALITIES FOR THEORY OF FINITE DIFFERENCE EQUATIONS AND MORE GENERAL DISCONTINUOUS FUNCTIONAL EQUATIONS N64-26358 18-20

EVALUATION OF ENERGY METHOD USING FINITE DIFFERENCES FOR DETERMINING THERMAL MIDPLANE STRESSES IN PLATES
NASA-TN-D-2439 N64-28331 20-33

THERMAL STRAIN ANALYSIS OF HEAT SHIELDS FOR MANNED SPACECRAFT - EQUATION DERIVATION AND FINITE DIFFERENCE FORMULATION
NASA-CR-54717 N64-30351 22-13

FINNED BODY
EFFECTS OF GEOMETRY ON EFFECTIVENESS OF FINNED BODY DIFFUSERS
FTD-TT-63-86/162 N64-16356 08-02

FIRE
THERMAL RADIATION AND FIRE EFFECTS OF NUCLEAR WEAPONS
DASA-1376 N64-12262 03-23

MECHANISMS OF POTENTIAL AIRCRAFT FUEL TANK VENT FIRES AND EXPLOSIONS CAUSED BY ATMOSPHERIC ELECTRICITY
NASA-TN-D-2240 N64-15528 07-26

FIRE EXPOSURE TEST OF WOODEN JACKET SHIELD FOR RADIOISOTOPE TRANSPORTATION CONTAINER
COO-275 N64-19146 11-26

TEMPERATURE-TIME DATA FROM STEEL CYLINDER ENGULFED BY AIRCRAFT-FUEL FIRE
NAVWEPS-8292 N64-21573 15-13

FIRE HAZARD IN LOW PRESSURE OXYGEN ATMOSPHERE
REPT.-4 N64-22705 15-16

FIRE RESISTANT WATER BASE HYDRAULIC FLUID
BR-1 N64-26429 18-17

FIRE AND EXPLOSION HAZARDS OF FLIGHT VEHICLE COMBUSTIBLES
ASD-TR-61-278, SUPPL. 3 N64-28608 20-26

FIRE ENGINEERING RESEARCH IN PHYSICAL CHEMISTRY OF FOAMS, QUENCHING ACTION OF CATIONS, AND SURFACE CHEMISTRY OF PERFLUOROCARBONS
WSS/CI PAPER-64-2 N64-32512 23-13

FIRE EXTINGUISHER
WATER-SOLUBLE SURFACTANTS OF PERFLUOROCARBON TYPE CAPABLE OF FORMING VAPOR-SECURING AGENTS FOR FLAMMABLE-LIQUID FIRE EXTINGUISHERS
NRL-6057 N64-18779 11-26

BLANKET FOR EXTINGUISHING FIRE AND FOR PROTECTION AGAINST THERMAL AND RADIOACTIVE RADIATION
FTD-TT-63-369/1 N64-21947 15-19

FIRE PREVENTION
SUPPRESSION OF PENTABORANE FIRES AND EXPLOSIONS IN AIR BY MEANS OF DIFFUSION BURNER & HETEROGENEOUS SHOCK TUBE
RTD-TDR-63-4007 N64-12311 03-26

FLAMMABILITY AND SMOKE CHARACTERISTICS OF AIRCRAFT INTERIOR MATERIALS
FAA-ADS-3 N64-20622 13-26

FIRE AND BLAST HAZARDS IN SPACE CABIN ATMOSPHERES
NASA-SP-48 N64-20744 14-26

ENVIRONMENTAL FACTORS IN SPACE CABIN FIRE HAZARD - IGNITION AND FLAME PROPAGATION N64-20745 14-26

EFFECTS OF SPACE CABIN ATMOSPHERE ON FLAMMABILITY OF FABRICS AND CARBONACEOUS SOLIDS N64-20746 14-26

EFFECTS OF SPACE CABIN ATMOSPHERE ON FLAMMABILITY OF LIQUIDS AND GASES N64-20747 14-26

EFFECTS OF ATMOSPHERIC ENVIRONMENT ON ELECTRICAL FIRE HAZARDS N64-20748 14-26

FIRE AND FLASH HAZARDS FROM METEOROID PENETRATION OF SPACE CABIN N64-20749 14-16

FIRE PREVENTION AND EXTINGUISHMENT IN SPACE CABINS N64-20750 14-26

ROLE OF FIRE AND BLAST HAZARDS IN SELECTION OF SPACE CABIN ATMOSPHERE N64-20751 14-26

MODEL FOR PREDICTION OF FIRE SPREAD FROM NUCLEAR ATTACK, ESTIMATION OF THERMAL DESTRUCTION, AND MEASURES FOR FIRE FIGHTING AND PREVENTION
WSS/CI PAPER-64-1 N64-24373 17-26

FIRE HAZARD INVESTIGATION OF COMBUSTIBLE MATERIALS IN SPACECRAFT PROPULSION COMPARTMENT
RPL-TDR-64-103 N64-32668 23-26

FIRE PROJECT
NASA SCHEDULE OF FIRE PROJECT LAUNCHINGS N64-18112 10-30

HEAT TRANSFER AND PRESSURE MEASUREMENTS ON FIRE PROJECT REENTRY MODEL IN SUPERSONIC WIND TUNNEL
NASA-TN-D-2000 N64-34017 24-13

FIREFLY PROJECT
INFRARED RADIATION IN SOLAR & TERRESTRIAL ATMOSPHERES - FIREFLY PROJECT
AFCRL-64-200 N64-15085 07-01

RADIOMETER AND LEAD SULFIDE DETECTOR FOR STUDYING INFRARED RADIATION FROM CHEMILUMINESCENT HIGH ALTITUDE CHEMICAL RELEASES DURING FIREFLY PROJECT N64-15086 07-23

PROJECT FIREFLY - UPPER ATMOSPHERIC STUDIES
AFCRL-64-364 N64-31376 23-12

CHEMICAL COMPOSITIONS AND THERMODYNAMIC CALCULATIONS OF FIREFLY PROJECT N64-31377 23-12

PAYLOAD CHEMICAL COMPOSITIONS AND CALCULATED RELEASE PRODUCTS - FIREFLY PROJECT
N64-31378 23-12

FIREFLY PROJECT - PHOTOGRAPHIC AND PHOTOMETRIC OBSERVATION OF WIND VELOCITY IN UPPER ATMOSPHERE FROM CHEMICAL PAYLOAD - DATA REDUCTION
N64-31379 23-12

PHOTOGRAPHY AND PHOTOMETRY FROM LUMINOUS CHEMICAL RELEASES - PROJECT FIREFLY N64-31380 23-12

SPECTROGRAPHY AND SPECTROMETRY OF LUMINOUS CHEMICAL RELEASES - FIREFLY PROJECT
N64-31381 23-12

CONVERSION OF FIREFLY PROJECT RADAR DATA - WAVE SCATTERING FROM IONIZED ARTIFICIAL CLOUDS
N64-31382 23-12

FIREFLY PROJECT IONOSONDE MEASUREMENTS OF ELECTRON DENSITY IN E AND F LAYERS FROM EXPLOSIONS AND CHEMICAL CLOUDS N64-31383 23-12

IONOSPHERIC DRIFT FROM MOTION OF FIREFLY PROJECT ARTIFICIAL CLOUDS N64-31384 23-12

GROUND BASED ACOUSTIC DETECTION OF HIGH ALTITUDE EXPLOSIONS - FIREFLY PROJECT N64-31385 23-32

INFRARED RADIOMETER MEASUREMENTS OF FIREFLY PROJECT ARTIFICIAL CLOUDS N64-31386 23-12

LOCAL DEPLETION OF IONOSPHERIC ELECTRON DENSITY BY FIREFLY PROJECT CHEMICAL CLOUDS WITH HIGH FREE ELECTRON ATTACHMENT COEFFICIENTS
N64-31387 23-12

VARIATIONS OF IONOSPHERIC ELECTRON DENSITY IN DEPLETED REGION - FIREFLY PROJECT
N64-31388 23-12

FIREFLY PROJECT DATA ON IONOSPHERIC WINDS & SHEARS WITH SPORADIC E LAYER CORRELATIONS
N64-31389 23-12

WIND SHEAR THEORY OF SPORADIC E LAYER APPLIED TO FIREFLY PROJECT ELECTRON DENSITY PROFILES
N64-31390 23-12

CHEMILUMINESCENT TECHNIQUES OF FIREFLY PROJECT FOR NIGHT IONOSPHERE WINDSTORM ANALYSIS IN UPPER ATMOSPHERE N64-31391 23-12

CHEMILUMINESCENCE OF TRIMETHYL ALUMINUM ARTIFICIAL CLOUD IN UPPER ATMOSPHERE - FIREFLY PROJECT
N64-31392 23-12

MOLECULAR RESONANCE OF ALUMINUM OXIDE FROM FIREFLY PROJECT SPECTROSCOPY IN UPPER NIGHT ATMOSPHERE
N64-31393 23-12

NIGHT IONOSPHERE WIND PATTERNS FROM FIREFLY PROJECT OBSERVATIONS N64-31394 23-12

ACOUSTIC RADIATION FROM FIREFLY PROJECT EXPLOSIONS IN UPPER ATMOSPHERE N64-31395 23-12

IONOSPHERIC TEMPERATURE FROM FIREFLY PROJECT PHOTOGRAPHY OF UPPER ATMOSPHERE EXPLOSIONS
N64-31396 23-12

UPPER ATMOSPHERE WIND SHEAR ANALYSIS BY GRAVITY WAVE SCALING APPLIED TO FIREFLY PROJECT DATA
N64-31397 23-12

UPPER ATMOSPHERE RADIO PROPAGATION BY FIREFLY PROJECT EXPLOSIVE PLASMA CLOUDS
N64-31398 23-12

ATMOSPHERIC CHEMILUMINESCENCE OF HYDROCARBON MISSILE EXHAUST - FIREFLY PROJECT
N64-31399 23-12

CHEMICAL IONIZATION REACTIONS OF MISSILE EXHAUST PRODUCTS AND ATMOSPHERIC CONSTITUENTS - FIREFLY PROJECT N64-31400 23-12

GASDYNAMICS OF NITRIC OXIDE TRAIL IN UPPER ATMOSPHERE - FIREFLY PROJECT N64-31401 23-12

FIRING
CF DETONATION
PREFIRING DATA FROM ADVANCED MODEL OF AUTOMATIC ROCKET IMPACT PREDICTOR
ERDA-82 N64-12593 04-20

PREDICTING VERY LOW ELECTROEXPLOSIVE DEVICE FIRING PROBABILITIES BY PROPER SAMPLING, INSTRUMENTATION, AND DATA COLLECTION
NOLTR-63-133 N64-13646 05-26

TEST FIRING FOR HARP PROJECT - CAPABILITIES OF VERTICALLY FIRED GUN PROBES
REPT.-63-5 N64-14478 06-32

RADIOFREQUENCY FILTER TO PROTECT ORDNANCE AGAINST HAZARD OF ELECTROMAGNETIC RADIATION INDUCED FIRING
NAVWEPS-7805, REV. 1 N64-16468 08-09

DIFFERENTIAL FIRING CORRECTIONS AND ACCURACY FORMULAS FOR VEHICLE ON KEPLERIAN BALLISTIC TRAJECTORY
BSD-TDR-63-216 N64-17442 09-29

LOW PASS TRANSMISSION LINES FOR PROTECTION OF ELECTROEXPLOSIVE DEVICES FROM INADVERTANT FIRING
N64-22815 16-09

MISSILE FIRING RANGE IN EUROPE N64-22871 16-10

RADIATION COOLED NUCLEAR ROCKET NOZZLE FOR LONG FIRING DURATION
AIAA PAPER-64-389 N64-24911 17-27

MEASUREMENT OF SHOCK DETACHMENT DISTANCE ON SPHERES FIRED IN AIR AT HYPERVELOCITIES
N64-26152 18-02

DATA SCATTER FROM STATIC FIRING TESTS OF 9KS-11000 ROCKET ENGINE
CARDE-TN-1543/64 N64-26742 18-27

STATIC ACCEPTANCE TEST FIRINGS OF SATURN FLIGHT STAGES S-1 THROUGH 9
NASA-CR-56837 N64-27283 19-30

METEOROLOGICAL ROCKET NETWORK FIRING DATA
IRIG-109-62, VOL. 5 N64-27560 19-32

METEOROLOGICAL ROCKET NETWORK FIRING
IRIG-109-62, VOL. 6 N64-27561 19-32

INSTRUMENT FOR MEASURING ROOT-MEAN-SQUARE CURRENT IN ELECTRIC FIRING CIRCUITS FOR ASSESSMENT OF INDUCED CURRENT HAZARD
WRE-TN-EID-56 N64-28718 20-15

ACOUSTIC EFFECTS OF STATIC TEST FIRING SATURN S-IC STAGE
NASA-TM-X-53086 N64-29010 20-18

METEOROLOGICAL ROCKET NETWORK FIRINGS
IRIG-109-62 N64-29580 21-32

FEASIBILITY OF INITIATING ROCKET MOTOR THROUGH BARRIER USING HIGH EXPLOSIVES WITHOUT PERFORATING BARRIER
TR-3085 N64-31264 22-27

EXTENDED DURATION TESTS ON TITAN II CONFIGURATION ABLATIVE SKIRTS TO OBTAIN FIRING CAPABILITY DATA
REPT.-0788-AST-1 N64-31585 23-13

SOLID ROCKET MOTOR NOZZLE ENVIRONMENT IN COLD FLOW MODELING AND MOTOR FIRINGS
U-2709 N64-31926 23-26

METEOROLOGICAL ROCKET NETWORK /MRN/ FOR UPPER ATMOSPHERE EXPLORATIONS - COMPILATION OF WIND AND TEMPERATURE DATA FROM 20 FIRINGS
IRIG-109-62, VOL. IV N64-32185 23-32

METEOROLOGICAL ROCKET NETWORK FIRINGS - UPPER ATMOSPHERE STUDIES
IRIG-109-62, VOL. II N64-32654 23-32

DATA FROM METEOROLOGICAL ROCKET FIRINGS FOR

OCTOBER 1962
IRIG-109-62, VOL. 14 N64-32869 24-32

DYNAMIC LOAD AND INTERNAL PRESSURE IN ROCKET LAUNCHER FIRING TESTS
NAVWEPS-8501 N64-33721 24-10

BE-3 ROCKET ENGINES - MANUFACTURE, RELIABILTY, AND TEST FIRING
HPC-230-12-3-3 N64-33799 24-27

FIRST ORDER EQUATION
NUMERICAL INTEGRATION OF COUPLED FIRST ORDER DIFFERENTIAL EQUATIONS WITH VARIED TIME CONSTANTS
NASA-CR-55550 N64-16108 07-20

FIRST ORDER DENSITY MATRIX FOR SPIN-PROJECTED SINGLE DETERMINANT - ELECTRON ORBIT
TECH. NOTE-104 N64-17847 10-20

FIRST PROJECT
DEVELOPMENT OF FLEXIBLE INFLATABLE REENTRY PARAGLIDER - FIRST PROJECT
SGC-335R-5 N64-17270 09-17

METHODS FOR FABRICATING INFLATABLE REENTRY VEHICLE OF ROGALLO WING PARAGLIDER CONFIGURATION CAPABLE OF HYPERSONIC SPEEDS - FIRST PROJECT
SGC-335-1 N64-18065 10-17

FISH
EFFECT OF CONSTANT MAGNETIC FIELD ON CONDITIONED REFLEXES IN SEA FISH
NASA-TT-F-189 N64-11564 03-16

CONDITIONED REFLEX TO MAGNETISM IN FISH
NASA-TT-F-190 N64-12962 04-16

GAS COMPOSITION OF GAS POCKETS & FISH SWIM BLADDER
N64-17948 10-16

EFFECT OF RADIATION INJURY OF NUCLEI ON SYNTHESIS OF INFORMATIONAL RIBONUCLEIC ACID IN FISH EMBRYO
JPRS-23944 N64-18334 10-16

ACOUSTIC EFFECTS OF MARINE ORGANISMS ON SOUND-SCATTERING LAYERS
JPRS-24274 N64-18970 11-23

FISHBOWL OPERATION
FISHBOWL NUCLEAR EXPLOSION EFFECTS ON VERY LOW FREQUENCY TRANSMISSION OF OMEGA SYSTEM
NEL-1207 N64-21173 14-08

WIDEBAND ELECTROMAGNETIC MONITORING SYSTEM AND FUNCTIONING DURING FISHBOWL OPERATION
EGEG-B-2668 N64-26282 18-08

FISSION
CF NUCLEAR REACTION
TRAPPED RADIATION AND IONOSPHERIC PERTURBATIONS DUE TO FISSION NEUTRON SOURCE - NUCLEAR TESTING
01-82-0241 N64-10150 01-23

ANGULAR DISTRIBUTION OF PROMPT FISSION GAMMA RAYS WITH RESPECT TO SELECTED FISSION FRAGMENTS IN THERMAL NEUTRON FISSION OF URANIUM 235
AEET/NP/7 N64-10231 01-23

KINETIC ENERGY & MASS DISTRIBUTION FOR NUCLEAR FISSION AT MODERATE EXCITATION ENERGY
UCRL-11006 N64-11305 02-23

AGE OF FISSION NEUTRONS TO INDIUM RESONANCE ENERGY IN WATER
NAA-SR-8621 N64-11956 03-23

NEUTRON PROPERTIES, GAMMA-RAY SPECTRA, CAPTURE GAMMA RAYS, AND THE FISSION PROCESS - NUCLEAR PHYSICS WITH REACTOR NEUTRONS
ANL-6797 N64-15390 07-23

ANGULAR DISTRIBUTION OF GAMMA RAY EMISSION IN SLOW NEUTRON FISSION OF URANIUM-235 AND PLUTONIUM-239
KFKI-16/1963 N64-15988 07-23

REACTOR CONTROL DEVICES & SYSTEMS, CAPACITANCE TEMPERATURE SENSOR, FISSION COUNTERS, IONIZATION CHAMBERS, AND NEUTRON DETECTORS
GEMP-270C N64-16001 07-23

FISSION GAS DIFFUSION AND RADIATION DAMAGE IN UNFUELED CERAMIC MATERIALS N64-16999 09-23

REUTER-STOKES HIGH TEMPERATURE ION CHAMBER AND FISSION COUNTER
PWAC-424 N64-17720 09-15

FOUR-TUBE PREAMPLIFIER FOR AMPLIFYING PULSE OUTPUT OF FISSION COUNTERS IN HIGH TEMPERATURE AND NUCLEAR RADIATION ENVIRONMENT
PWAC-427 N64-18142 10-09

FISSION RESONANCE INTEGRALS OF URANIUM AND PLUTONIUM RADIOACTIVE ISOTOPES
AECL-1910 N64-18461 10-23

ENERGY DISTRIBUTION IN ATMOSPHERE BY DELAYED GAMMA RADIATION FROM FISSION OF URANIUM
LAMS-3059 N64-19720 12-12

FISSION HEATED THERMIONIC CONVERTERS
N64-22984 16-09

RE-EVALUATION OF OPTIMAL PARAMETERS FOR POST-FISSION BETA DECAY
LA-2811, ADDENDUM II N64-23258 16-23

INADEQUACY OF THERMAL INITIATION THEORY IN INTERPRETING RESULTS OF FISSION FRAGMENT IRRADIATION OF EXPLOSIVES AT ELEVATED TEMPERATURES
PA-TR-3157 N64-25349 17-26

CALCULATION OF FISSION-SOURCE THERMAL-NEUTRON DISTRIBUTION IN WATER BY TRANSPORT AND DIFFUSION THEORIES - TRANSFUSION METHOD
ORNL-3487 N64-27517 19-23

ENERGY AND TIME BETA-RAY SPECTRA FROM FISSION OF URANIUM AND PLUTONIUM N64-28217 20-23

DETERMINATION OF LIFETIME OF PROMPT FISSION NEUTRONS
LFEN.16 /ALPHA/ N64-29883 21-23

AGE OF FISSION NEUTRONS TO INDIUM RESONANCE ENERGY
NAA-SR-9503 N64-30034 21-25

MINIATURE FISSION CHAMBER AND PREAMPLIFIER FOR HIGH FLUX REACTORS
ORNL-3699 N64-32416 23-15

FISSION ELECTRIC CELL
DIRECT CONVERSION OF ATOMIC ENERGY TO ELECTRICAL ENERGY - FISSION-ELECTRIC CELL PROJECT
RM-3908-PR N64-13072 04-06

FISSION PRODUCT
CF REACTOR FUEL
PROCEDURES AND EQUIPMENT USED TO EXPOSE SMALL ANIMALS TO AEROSOLS OF FISSION PRODUCTS
LF-11 N64-11206 02-16

REMOTE MICROSAMPLING OF IRRADIATED CERAMIC MATERIALS BY MICRODRILLING FOR USE IN FISSION PRODUCT MIGRATION
HW-79122 N64-11374 02-19

PRODUCTION OF CHEMICALS THROUGH USE OF RECOILING FISSION FRAGMENTS IN CHEMONUCLEAR REACTORS
BNL-804/T-309/ N64-11641 03-07

CORRECTION FACTORS AFFECTING EVALUATION OF TOTAL BETA RADIOACTIVITY OF FISSION PRODUCTS
EUR-424.F N64-13142 04-23

HEAVY MASS YIELDS FROM THERMAL NEUTRON FISSION OF URANIUM-233
USNRDL-TR-679 N64-13309 04-23

ANGULAR DISTRIBUTION OF PHOTOFISSION FRAGMENTS OF THORIUM RELATIVE TO PHOTON BEAM
N64-13396 04-23

SWELLING OF URANIUM UNDER IRRADIATION BY NEUTRONS AND FISSION PRODUCT N64-14228 06-23

SYNTHESIS OF NITRO-OXYLFLUORIDE OXIDIZERS BY

FISSION FRAGMENT RECOIL
AN-1119 N64-14694 06-26

PURIFICATION OF URANIUM-235 & 238 FOR MASS SPECTROMETRIC STUDY OF FISSION PRODUCTS
UCRL-11074 N64-14712 06-23

PROCESSING DATA ON DISTRIBUTION & EXCRETION OF INHALED FISSION PRODUCTS WITH AUTOMATIC READOUT COUNTING SYSTEM
LF-13 N64-14750 06-16

TRANSIENT REACTOR COOLANTS FOR RETAINING FISSION PRODUCTS - MELTING URANIUM IN SODIUM AND TERPHENYL ENVIRONMENTS
NAA-SR-9163 N64-15401 07-23

CHEMICAL PROCESSING OF ZIRCONIUM FUEL, ALUMINUM FUEL, AND ADSORPTION OF ORGANIC AGENTS ON FISSION PRODUCTS
IDO-14616 N64-16253 08-07

ENERGY AND MASS DISTRIBUTIONS OF FISSION FRAGMENTS PRODUCED BY HEAVY ION BOMBARDMENT
UCRL-11193 N64-16549 08-23

FISSION PRODUCT TRANSPORT PROCESSES OF KRYPTON IN REFRACTORY METAL FUEL SYSTEMS N64-17000 09-23

EMISSION OF FISSION PRODUCTS FROM LIGHTLY IRRADIATED URANIUM DIOXIDE - EQUIPMENT AND PROCEDURES FOR SWEEP METHOD OF INVESTIGATION
AERE-R-4322 N64-17207 09-23

INTERCALIBRATION OF NETWORK SYSTEMS EMPLOYED IN MONITORING FISSION PRODUCT RADIOACTIVITY IN ATMOSPHERE
NRL-6025 N64-17374 09-21

INTENSITY OF BETA RADIATION AT FUEL ELEMENT SURFACE SOLVED USING BETA ENERGY LEVEL EMISSION FROM FISSION PRODUCTS
HW-79814 N64-17497 09-23

DOSE RATES, ACTIVITY, AND SHIELDING TRANSMISSION FACTORS FOR URANIUM-235 FISSION PRODUCTS AFTER SHORT IRRADIATION
LAMS-2963 N64-17500 09-23

COMPUTER PROGRAM FOR TEMPERATURE EFFECTS ON FISSION PRODUCTS FROM GAS STREAMS ONTO CONDUIT SURFACE
ORNL-3542 N64-17743 09-23

MONITORING OF FISSION PRODUCTS IN EXPERIMENTAL BREEDER REACTOR-1 IN EVENT OF FUEL ELEMENT CLADDING FAILURE
ANL-6788 N64-17779 09-23

DISTRIBUTION OF FISSION PRODUCT DEBRIS IN SOUTHERN CONJUGATE AREA FROM HIGH ALTITUDE NUCLEAR TEST
NASA-CR-53592 N64-18428 10-12

RADIATION, GAS DIFFUSION, AND FISSION PRODUCT RESEARCH ON BERYLLIUM OXIDE, CERAMICS, AND REFRACTORY METALS
GEMP-34A N64-19016 11-23

STAR DUST PROJECT - DISTRIBUTION OF SHORT-LIVED FISSION PRODUCTS IN STRATOSPHERE
DASA-1308 N64-20907 14-12

PRODUCTION METHOD TO OBTAIN IODINE 131 BY DRY DISTILLATION FROM URANIUM OXIDES
N64-23058 16-23

GAS COUNTER FOR MEASUREMENT OF BETA RADIATION FROM FISSION PRODUCTS N64-23322 16-12

REACTOR MATERIALS, FUEL ELEMENTS, RADIOISOTOPES AND RADIATION, FISSION PRODUCTS, AND MECHANICAL PROPERTIES OF ZIRCONIUM AND ALUMINUM ALLOYS
BMI-1672 N64-25947 18-19

REACTOR MATERIALS, ALUMINUM ALLOYS, FUEL MATERIALS AND FISSION PRODUCT DEPOSITION STUDIES
BMI-1669 N64-26546 18-23

FISSION PRODUCT RELEASE FROM SYSTEM FOR NUCLEAR AUXILIARY POWER 10A/2 /SNAP-10A/ URANIUM-ZIRCONIUM HYDRIDE FUEL
NAA-SR-9673 N64-26631 18-23

DIMENSIONAL STABILITY AND CHANGE OF PYROLYTIC CARBON UNDER BOMBARDMENT BY FISSION FRAGMENTS
BMI-1679 N64-26872 18-23

THRESHOLD DETECTOR MEASUREMENT OF FISSION NEUTRON FLUXES AND SPECTRA
AECL-1994 N64-28106 20-23

CHEMICAL SEPARATION OF CERIUM FROM TRIVALENT RARE EARTHS - FISSION PRODUCT SEPARATION FOR WASTE PROCESSING
HW-78987, REV. N64-28782 20-07

COLUMNAR AIR MASS BETWEEN PAIRS OF POINTS IN ATMOSPHERE AND VOLUME PRODUCTION RATE OF ION PAIRS DUE TO GAMMA RAYS FROM DECAYING FISSION DEBRIS
RM-4142 N64-28820 20-23

DEPOSITION OF FISSION PRODUCTS FROM HELIUM GAS STREAM AT HIGH TEMPERATURES AND FLOWING AT HIGH VELOCITIES
BMI-1688 N64-30024 21-11

TRACE ANALYSIS OF PLUTONIUM AND URANIUM BY ION EXCHANGE SEPARATION FROM FISSION PRODUCTS AND SOIL
NDL-SP-7 N64-30586 22-07

CHEMISTRY AND ATOMIC ENERGY - NUCLEAR REACTOR FUEL AND WASTE PROCESSING, TRANSURANIUM ELEMENTS, FISSION PRODUCT EXTRACTION, RADIATION EFFECTS, AND DECONTAMINATION
ORNL-3627 N64-31061 22-07

OXALIC ACID DOSIMETER FOR MEASURING MEGARAD DOSES OF GAMMA RADIATION
USNRDL-ER-14 N64-31283 22-17

MONITORING SYSTEM FOR RADIOACTIVE FISSION PRODUCT GASES FROM DISSOLUTION OF IRRADIATED URANIUM IN RADIOCHEMICAL SEPARATIONS PROCESS
DP-908 N64-32794 24-15

RECOVERY AND ISOLATION OF TECHNETIUM FROM FISSION PRODUCT WASTES
NASA-CR-58966 N64-33157 24-10

FISSION PRODUCT GAMMA RADIATION AND TEMPERATURE EFFECTS ON TRANSISTOR CIRCUITS
BSC-39655 N64-33735 24-09

FISSIUM ALLOY
CALORIMETRIC DETERMINATION OF HEAT CAPACITIES OF URANIUM ISOTOPES AND THEIR ALLOYS WITH FISSIUM MIXTURE
ANL-6702 N64-12906 04-13

FITTING
SA FASTENER
BREAKING STRENGTH AND ENDURANCE TESTS ON ALUMINUM ALLOY AND BRASS TURNBUCKLES FOR AIRCRAFT CONTROL CABLE FITTINGS
SEG-TDR-64-2 N64-25987 18-11

FIXED-WING AIRCRAFT
STOL FIXED-WING AIRCRAFT DESIGN STUDY - MARVEL PROJECT
AEROPHYS. RES. REPT.-45 N64-13997 05-04

FLAME
SA FLARE
CF COMBUSTION
CHARACTERISTICS OF BORON FLAMES - ROCKET FUEL USE - SQUID PROJECT
RND-3-P N64-11435 02-24

FLAME INHIBITION BY DISPERSED SOLID PARTICLES AND ADDITIVES
RTD-TDR-63-4011 N64-11462 03-24

STRUCTURE OF COMBUSTION ZONE IN TURBULENT FLAME - MEASUREMENT OF IONIZATION PHENOMENA
N64-13412 05-20

DILUTE DIFFUSION FLAME OF SPHERICAL SYMMETRY MAINTAINED BY HETEROGENEOUS REACTION - SQUID

PROJECT
CAL-89-P N64-13717 05-26

SPECULAR REFLECTION & ABSORPTION OF RUTILE AND GROWTH OF CRYSTALS BY FLAME FUSION
MIT-TR-184 N64-15011 07-01

FLAME FUSION TECHNIQUE FOR GROWING OXIDE CRYSTALS
N64-15013 07-25

MASS SPECTROMETRIC STUDY OF CHEMICAL EQUILIBRIUM INVOLVING METALS IN BURNT GAS REGION OF FLAMES
N64-18816 11-26

KINETICS OF CHEMICAL REACTIONS IN HIGH TEMPERATURE GAS BY DILUTE DIFFUSION FLAME - SQUID PROJECT
N64-18860 11-24

AUTOMATIC MONITOR FOR FLAME EMISSION DETECTION OF PENTABORANE IN AIR
RTD-TDR-63-1072 N64-19107 11-15

FLAME EXTINGUISHMENT BY CHEMICAL AND PHYSICAL METHODS
ASD-TR-61-408, SUPPL. 2 N64-20177 13-26

STRUCTURE OF LAMINAR DIFFUSION FLAMES
FM-63-2 N64-21552 15-26

STRUCTURE OF LAMINAR DIFFUSION FLAMES
FM-63-2 N64-21552 15-26

EFFECT OF DIFFUSION FACTORS ON FLAME STABILITY - HEAT EXCHANGE IN HORIZONTAL SURFACES OF HEAT INSULATING STRUCTURES
FTD-TT-62-1804/1&2&4 N64-21927 15-23

FLAME STABILIZATION IN BOUNDARY SURFACE LAYER
FTD-TT-62-1821/1&2 N64-22638 15-26

PRESSURE AND TEMPERATURE EFFECT ON FLAME REACTION RATE COEFFICIENT N64-23478 16-26

DIFFUSIVE-THERMAL STABILITY OF LAMINAR FLAME
N64-23685 16-11

HIGH TEMPERATURE HEATERS FORMED BY VACUUM DEPOSITION ON PLASMA-FLAME SPRAYED DIELECTRIC SUBSTRATES OF ALUMINUM OXIDE
ASD-TDR-62-662 N64-24097 16-13

COLOR PHENOMENA IN AFTERGLOWS AND ATOMIC FLAMES FROM ELECTRIC DISCHARGES N64-24146 16-23

FLAME TEMPERATURES OF ROCKET EXHAUST GASES
REPT.-103-8 N64-24805 17-26

ION FORMATION IN LOW PRESSURE FLAMES
TP-93 N64-24968 17-26

KINETICS OF HYDROGEN BROMIDE AND METHYL BROMIDE FLAME INHIBITION
SR-6-3 N64-25183 17-07

SPACE SCIENCE - SOLAR RADIATION, FLAME REACTION KINETICS, STRATOSPHERIC PLANETARY OBSERVATORY, INFORMATION SYSTEMS, AND SPACE BIOLOGY
N64-25186 17-28

HEAT GENERATION SYSTEMS FOR FLAME-SPRAYING
N64-25426 17-17

SELF-IGNITION FLAME AND DETONATION GASES
NASA-TT-F-125 N64-25875 18-26

THERMAL RADIATION OF FLAME WITH CONDENSED MAGNESIUM OXIDE PARTICLES IN REFERENCE TO SOLID ROCKET PROPELLANTS AND EXPLOSIVES
N64-26340 18-26

IONIZATION IN FLAMES AND IDENTIFICATION OF NEGATIVE IONS
ARL-64-104 N64-26490 18-07

TEMPERATURE FIELDS IN GAS TURBINE COMPONENTS AND ELECTRIC CONDUCTIVITY OF FLAME
FTD-TT-62-1568/1&2&4 N64-26733 18-13

CHAMBER ROTATION SPEED AND IGNITION POINT LOCATION EFFECTS ON COMBUSTION DURATION AND FLAME DURATION IN CYLINDRICAL FORCE FIELD
TR-2 N64-26856 18-26

FLAME AND PLASMA SPRAYING METHODS FOR COATING REFRACTORY METAL SHEET N64-27027 19-19

LIMITS OF FLAME QUENCHING USING GRANULAR AND POROUS MATERIALS N64-28478 20-11

RELATION OF RADIANT ENERGY FROM FLAME TO MOLECULAR STRUCTURE OF HYDROCARBON FUELS
RDR-3752-64R N64-28690 20-26

KINETICS OF ROCKET EXHAUST GASES - FLAME IMAGE AND FLAME TEMPERATURE DETERMINATION
REPT.-103-9 N64-29675 21-26

INTERNAL COMBUSTION ENGINES - GAS FLOW AND FLAME STABILITY AFTER SPARK IGNITION
FTD-MT-64-03 N64-31755 23-27

FLAME DEVELOPMENT AFTER IGNITION BY STABILIZED AND NONSTABILIZED ELECTRIC SPARK - RECIPROCATING ENGINE ECONOMY N64-31757 23-27

DIFFUSION CONTROLLED IGNITION OF ORGANIC SOLIDS BY INTENSE RADIANT ENERGY
WSS/C1 PAPER-64-7 N64-32518 23-26

CONSTANT VOLUME METHOD FOR DETERMINING LAMINAR BURNING VELOCITY OF COMBUSTIBLE MIXTURES
REPT.-20 N64-32797 24-26

MOLECULAR BEAM SPECTROMETRY OF CARBON MONOXIDE-OXYGEN FLAMES
QTSR-11 N64-33423 24-13

BURNING RATE AND FLAME TEMPERATURE MEASUREMENT OF BARIUM-CONTAINING COMBUSTIBLE MIXTURE
AFCRL-64-675 N64-33648 24-26

EFFECT OF AVIATION TURBINE HYDROCARBON FUEL PROPERTIES ON CORROSION OF SUPERALLOYS AND ON FLAME RADIATION IN COMBUSTOR
RDR-3753-64R N64-33849 24-26

FLAME FRONT
SHOCK WAVE AMPLIFICATION DURING PASSAGE THROUGH FLAME FRONT
FTD-TT-63-532/1&2 N64-16375 08-26

DETERMINATION OF MICROSTRUCTURE OF FLAME FRONTS
AD-429928 N64-18744 11-26

THERMODYNAMICS OF NONEQUILIBRIUM FLOW, WATER FLOW BREAKUP, AND FLAME FRONT STRUCTURES
FTD-TT-63-839/1&2&4 N64-23651 16-11

SOLUTION OF HYDRODYNAMIC EQUATIONS FOR FLAME FRONT CHEMICAL REACTIONS N64-23654 16-11

NONSTEADY FLAME PROPAGATION
AGARDOGRAPH-75 N64-26003 18-26

PERTURBATION ANALYSIS OF STABILITY AND RESPONSE OF PLANE FLAME FRONTS N64-26005 18-26

FLAME FRONT INSTABILITY IN STEADY FLOW, VIBRATORY FLOW, AND SHOCK WAVES N64-26006 18-26

FLAME PLATING
S ACETYLENE
S ALUMINUM OXIDE
S TUNGSTEN CARBIDE
S WELDING

FLAME PROPAGATION
ANALYSES OF EXPLOSIONS, DETONATIONS, FLAMMABILITY LIMITS, GAS IGNITION, HETEROGENEOUS BURNING, AND EXPLOSION PREVENTION - HIGH ENERGY REACTIONS
AGARDOGRAPH-31 N64-12125 03-26

CALCULATION OF FLAME PROPAGATION IN TURBULENT FLOW
N64-13411 05-26

OPTICAL DIFFUSION METHOD OF MEASURING TURBULENCE IN AIR FLOWS AND FLAMES N64-13415 05-26

INFLUENCE ON REDUCED PRESSURE ON FLAME PROPAGATION AND COMBUSTION ZONE IN TURBULENT FLOW
N64-16231 08-26

ENVIRONMENTAL FACTORS IN SPACE CABIN FIRE HAZARD - IGNITION AND FLAME PROPAGATION N64-20745 14-26

FLAME PROPAGATION IN MIXTURE OF HYDROGEN AND CHLORINE
FTD-TT-62-1687/1&2 N64-21647 15-26

NONSTEADY FLAME PROPAGATION
AGARDOGRAPH-75 N64-26003 18-26

THEORY OF FLAME PROPAGATION THROUGH COMBUSTIBLE GAS MIXTURE N64-26004 18-26

FLAME PROPAGATION IN TUBES AND SPHERICAL CHAMBERS
N64-26007 18-26

FLANGE
SA METAL PLATE
PRINCIPAL MODE DIFFRACTION AT END OF WAVEGUIDE TERMINATED BY INFINITE-PLANE FLANGE
N64-13397 04-09

RELIABILITY OF FLANGE CLOSURE AS FUNCTION OF FLANGE AND GASKET DESIGN FOR OPTIMUM PERFORMANCE IN HIGH VACUUM REGION
ORNL-3509 N64-17501 09-17

FLANGES AND GASKETS
RSIC-171 N64-22916 16-17

FLAP
CF SPOILER
CF STABILIZER
ZERO-DIHEDRAL SUPERCAVITATING HYDROFOILS WITH SPLIT TRAILING-EDGE FLAPS
GD/C-63-210 N64-17337 09-03

EXPERIMENTAL DATA OF SUPERCAVITATING HYDROFOILS WITH FLAPS
GD/C-63-210, APP. A N64-17338 09-03

SEPARATED BOUNDARY LAYER FLOW ON TWO-DIMENSIONAL FLAT PLATE HAVING VARIABLE SPAN TRAILING-EDGE FLAP
AEDC-TDR-64-14 N64-17455 09-11

INFLUENCE OF AIR STREAM FLOW ON AERODYNAMIC CHARACTERISTICS OF PROFILE WITH SLOTTED FLAP FOR DIFFERENT AIR STREAM TYPES N64-23069 16-03

CONTROL SURFACE OSCILLATIONS - ROTATION OF FLAP ABOUT HINGE
ARC-R&M-3364 N64-25203 17-04

WIND TUNNEL MEASUREMENTS OF RECTANGULAR WING WITH TRAILING EDGE FLAP
DLR-FB-64-02 N64-26745 18-03

BODY FLAPS, SPOILERS, & COLD GAS REACTION JETS FOR CONTROL IN HYPERSONIC FLIGHT
OR-3719 N64-30761 22-02

FLARE
SA SOLAR FLARE
CF ILLUMINATION
CF PYROTECHNICS
CF SIGNAL
PRESSURE AND FORCE MEASUREMENT ON A SLENDER, BLUNT, CONE-CYLINDER-FLARE CONFIGURATION AT HYPERSONIC SPEED
ARC-CP-657 N64-10138 01-02

JET PLUMING EFFECT ON TWO FREE-FLIGHT ROCKET-PROPELLED CONE-CYLINDER-FLARE VEHICLES DETERMINED BY COMPUTER SIMULATION
NASA-TN-D-2018 N64-11552 03-27

OSO SOLAR X-RAY DATA FROM SLOW VARIATIONS & FLARES
NASA-RP-346 N64-31722 23-28

X-RAY FLARE EMISSION ORIGINATING BEHIND SOLAR DISK - IONOSPHERIC DISTURBANCE OBSERVATIONS
AD-424481 N64-33729 24-28

CHROMOSPHERIC FLARE IDENTIFICATION BY SOLAR, GEOMAGNETIC, & IONOSPHERIC DATA AND GEOMETRY OF INTERPLANETARY MAGNETIC FIELD
NASA-TT-F-226 N64-34020 24-21

FLARED BODY
HEAT-TRANSFER RATES AND ABLATION ON BLUNT FLARED CYLINDER IN FREE FLIGHT AT HYPERSONIC AND LOWER SPEEDS
NASA-TN-D-2383 N64-27505 19-13

HYPERSONIC WIND TUNNEL TEST OF BLUNT-NOSE FLARED CYLINDER MODEL FOR AERODYNAMIC CHARACTERISTICS IN AIR-CARBON DIOXIDE MIXTURES
NASA-CR-59186 N64-33218 24-02

FLASH
CF LIGHT
EXPLOSIVELY ACTUATED FLASH PROTECTION DEVICE
R-1640 N64-15738 07-23

KINETICS OF ADSORPTION OF COMPONENTS OF RESIDUAL GASES IN ULTRAHIGH VACUUM SYSTEMS - INVESTIGATION BY FLASH METHOD WITH MASS SPECTROMETRY
N64-17181 09-23

SPECTRA OF GALLIUM-THALLIUM IODIDE FLASH LAMP
AD-437572 N64-24231 16-19

SPECTRAL EMISSIVITY OF FLASH COMBUSTION REACTIONS FOR LASER PUMPING
NA-64-608 N64-27615 19-16

DETECTION OF FLASH FROM HYPERVELOCITY IMPACT IN SPACE
ATL-TDR-64-24 N64-29098 21-20

FLASH PYROLYSIS OF SOLID FUEL MATERIALS BY THERMAL RADIATION
WSS/CI PAPER-64-6 N64-33500 24-26

FLASH BLINDNESS
CF VISION
CRITICAL VISUAL FIELD OF EXPLOSIVE-ACTUATED LENS FILTER /ELF/ HELMET AND VISOR SYSTEM FOR FLASH BLINDNESS PREVENTION
MR-64-1 N64-32299 23-14

VISUAL RECOVERY FROM EXPOSURES TO VERY HIGH ILLUMINANCE FLASHES
TDR-2 N64-33459 24-14

FLASH TUBE
EXCITING LIGHT SOURCES FOR RUBY LIGHT QUANTUM OSCILLATORS WITH COMMON AXIS CYLINDRICAL XENON FLASH LAMP N64-17343 09-25

HIGH PERFORMANCE COLD CATHODE FLASH X-RAY TUBE
CR-6 N64-19802 12-23

FLASH VAPORIZATION OF SOLID MATERIALS FOR MASS SPECTROMETRY BY THERMAL RADIATION
USNRDL-TR-736 N64-21080 14-23

VOLTAGE-CURRENT MEASUREMENTS OF XENON FLASHTUBES FOR DYNAMIC RESISTANCE CHARACTERISTIC DATA
RADC-TDR-64-294 N64-30941 22-09

DELIVERY APPARATUS FOR HIGH INTENSITY FLASHES FROM XENON-FILLED FLASH TUBE
SAR-TDR-64-36 N64-33352 24-14

FLAT PLATE
SOLUTIONS FOR DEVELOPMENT OF LAMINAR BOUNDARY LAYER ON FLAT PLATE BY METHOD OF LOCAL SIMILARITY
TDR-169/3153-01/TN-1 N64-12037 03-11

FRICTION, HEAT TRANSFER, AND MASS TRANSFER COEFFICIENTS FOR CONSTANT PROPERTY TURBULENT BOUNDARY LAYER ON FLAT PLATE
NOLTR-63-77 N64-12259 03-11

NAVIER-STOKES EQUATIONS FOR SYMMETRIC STAGNATION & WAKE FLOW PAST SEMI-INFINITE PLATES
NWL-1886 N64-13642 05-11

SOLAR FLAT PLATE THERMOELECTRIC GENERATOR
QR-3 N64-13985 05-09

FLAT PLATE SKIN FRICTION NEAR SHARP LEADING EDGES IN LOW DENSITY HYPERSONIC FLOW

ARL-63-224 N64-14693 06-11

WIND-TUNNEL TEST OF PRESSURE AND TEMPERATURE DISTRIBUTION ON FLAT PLATE ABOUT INJECTOR WITH 95 STATIC-PRESSURE PORTS AND 25 THERMOCOUPLES
NASA-CR-53039 N64-14894 06-30

HYPERSONIC BOUNDARY LAYER TRANSITION ON SMOOTH FLAT PLATE WITH SHARP LEADING EDGES
N64-14911 06-11

RADIATING LAMINAR BOUNDARY LAYER FLOW OF GREY GAS OVER FLAT PLATES
PIBAL-812 N64-15765 07-24

SKIN FRICTION AND STABILITY OF LAMINAR BOUNDARY LAYER ON FLAT PLATE WITH MASS TRANSFER
RM-3485-PR N64-16043 07-02

SIMPLIFIED ANALYSIS OF SKIN FRICTION AND HEAT TRANSFER IN BINARY BOUNDARY LAYER FLOW ON FLAT PLATES
RM-2872-PR N64-16472 08-11

HYPERSONIC VISCOUS INTERACTION ON FLAT PLATE WITH MASS TRANSFER AT PLATE SURFACE
RM-3000-PR N64-16473 08-02

PRESSURE & HEAT TRANSFER MEASUREMENTS FOR HYPERSONIC FLOW OVER FLAT PLATES
ASD-TDR-63-679, PT. 3 N64-16775 08-02

RAREFIED HIGH TEMPERATURE HYPERSONIC SLIP FLOW OVER FLAT PLATE WITH SHARP LEADING EDGE
AD-432130 N64-16854 08-02

LOCAL LEADING EDGE HEAT TRANSFER ON FLAT PLATE IN RAREFIED HYPERSONIC FLOW
AS-63-8 N64-17281 09-09

INERT PARALLEL PLATE STRUCTURE FOR HOMOGENEOUS, ISOTROPIC, LOSSLESS PLASMA SLAB
PIBMRI-1162-63 N64-17307 09-24

SEPARATED BOUNDARY LAYER FLOW ON TWO-DIMENSIONAL FLAT PLATE HAVING VARIABLE SPAN TRAILING-EDGE FLAP
AEDC-TDR-64-14 N64-17455 09-11

EFFECT OF SOLID & JET SPOILERS ON FLAT PLATES IN TRANSONIC TANGENTIAL FLOW
NASA-CR-53257 N64-17493 09-03

EFFECT OF TRANSPIRATION COOLING ON PARTIALLY DISSOCIATED TURBULENT BOUNDARY LAYER OVER FLAT PLATES
NASA-CR-53247 N64-17576 09-13

THERMAL RADIATION INCIDENT UPON FLAT PLATE ROTATING AROUND ARBITRARY AXIS IN ELLIPTICAL EARTH ORBIT
NASA-TN-D-2147 N64-17745 09-13

TWO-DIMENSIONAL SEPARATED OR CAVITATING FLOW PAST FLAT PLATE NORMAL TO STREAM
ARC-CP-697 N64-18325 10-11

EQUATIONS OF SOUND RADIATION BY SURFACE DIPOLES OF RIGID FLAT PLATE
AGARD-459 N64-18724 11-23

STEPWISE DISTRIBUTION EFFECT OF HEAT TRANSFER ON SUPERSONIC FLOW OVER FLAT PLATE
TCEA-TN-13 N64-19039 11-13

SINKAGE OF FLAT PLATES IN THIN FILMS OF VISCOUS FLUIDS OVER SMOOTH AND ROUGH SURFACES - MODEL OF RUBBER TIRE ROLLING ON WET PAVEMENT
N64-19050 11-23

FLUTTER ANALYSIS OF FLAT ISOTROPIC PANELS
N64-19368 12-33

SINGLE PLANE PARALLEL PLATE AS LATERAL SHEARING INTERFEROMETER WITH VISIBLE HELIUM-NEON GAS LASER
N64-19490 12-23

CAPTURE COEFFICIENT OF LIQUID HELIUM AND LIQUID NEON COOLED CRYOPLATE IN SUPERSONIC LOW DENSITY AIR STREAM
AEDC-TDR-64-124 N64-22386 15-11

HEAT EXCHANGE ON FLAT PLATE SURFACE
FTD-TT-62-1770/1 N64-22399 15-13

HEAT TRANSFER MEASUREMENTS ON FLAT PLATE AND ATTACHED FINS AT SUPERSONIC SPEEDS
NASA-TN-D-2340 N64-22674 15-13

WEIGHT FLOW RATES OF AIR THROUGH CIRCULAR HOLES IN FLAT PLATE IMMERSED IN SUBSONIC OR SUPERSONIC AIRSTREAM
NOLTR-61-125 N64-22911 16-11

USE OF KARMAN THEORY FOR CALCULATING TURBULENT BOUNDARY LAYER ON FLAT PLATE
FTD-TT-62-1768/1&2 N64-23097 16-11

TURBULENT BOUNDARY LAYER ON FLAT PLATES
N64-23687 16-11

HYPERSONIC FLOWS OVER FULL SPAN RAMPS MOUNTED ON FLAT PLATE
RTD-TDR-63-4044, PT. III N64-24143 16-11

OPTICAL DETERMINATION OF INTERNAL STRESSES IN FLAT PLATE STRUCTURES
RSIC-109 N64-25223 17-33

COST ANALYSIS OF MULTI-PLATE ANTENNA ARRAYS
RAC-2135 N64-25404 17-08

HEAT TRANSFER AND PRESSURE DISTRIBUTION ON FIN PLATE INTERFERENCE MODEL AT MACH 6
NASA-TN-D-2028 N64-25806 17-13

LEADING EDGE BLUNTNESS AND SLIP FLOW EFFECT IN HIGH TEMPERATURE HYPERVELOCITY FLOW OVER FLAT PLATE N64-26161 18-02

HEAT AND MASS TRANSFER THROUGH TURBULENT BOUNDARY LAYER ON FLAT PLATE AT HIGH MACH NUMBERS WITH AND WITHOUT CHEMICAL REACTION N64-26334 18-11

HEAT TRANSFER ON FLAT PLATE AND PIPE WALL IN STEADY AND COUNTER BOUNDARY LAYER FLOWS
N64-26553 18-13

BOUNDARY LAYER ON SEMI-INFINITE FLAT PLATE WITH BLUNT LEADING EDGE IN HYPERSONIC FLOW
NASA-TT-F-9022 N64-27136 19-11

DIRECT MEASUREMENT OF BOUNDARY LAYER VELOCITY PROFILE OF GAS FLOW ALONG NONUNIFORMLY HEATED FLAT PLATE
FTD-TT-63-1053/1&2&4 N64-27837 19-15

FLOW OF LOW-DENSITY AIR OVER HEATED FLAT PLATE IN SUBSONIC WIND TUNNEL
UTIAS-92 N64-27965 20-11

BOUNDARY LAYER GROWTH ON FLAT PLATE IN PRESENCE OF TRANSVERSE MAGNETIC FIELD N64-28099 20-11

TURBULENT BOUNDARY LAYER ON FLAT PLATE OF FINITE ASPECT RATIO AT ZERO INCIDENCE
ARC-R&M-3367 N64-28246 20-11

ELASTICITY THEORY FOR FLAT AND PARALLEL PLANES UNDER COMPOSITE BOUNDARY CONDITIONS
N64-28494 20-33

UNSTEADY BOUNDARY LAYER FLOW OF NONNEWTONIAN FLUID ON FLAT PLATE N64-28952 20-11

NOTCHED FLAT PANEL TEST FOR COMPRESSIVE STRENGTH OF FILAMENT WOUND PLASTIC STRUCTURAL MATERIALS
PR-5 N64-29373 21-33

HEAT TRANSFER MEASUREMENTS ON FLAT PLATE AND ATTACHED PROTUBERANCES IN TURBULENT BOUNDARY LAYER OVER RANGE OF MACH NUMBER, REYNOLDS NUMBER, AND ANGLE OF ATTACK
NASA-TN-D-2428 N64-29451 21-13

FRICTION RESISTANCE OF FLAT PLATE AT ZERO ANGLE OF ATTACK IN REGION BETWEEN CONTINUUM AND FREE MOLECULAR FLOW
FTD-MT-63-83/1&2&3&4 N64-30542 22-17

IMPULSIVE MOTION OF SEMI-INFINITE FLAT PLATE USING LINEAR MODEL OF UNSTEADY BOUNDARY LAYER EQUATIONS
PIBAL-821 N64-30561 22-11

SOLAR FLAT PLATE THERMOELECTRIC CONVERTER
APL-TDR-64-87 N64-30972 22-06

HEAT TRANSFER MEASUREMENTS ON FLAT PLATE IN HYPERSONIC SHOCK TUNNEL
NOLTR-61-91 N64-31667 23-13

ANALYSIS OF TWO-DIMENSIONAL SUPERCAVITATING FLAT PLATE OSCILLATING UNDER FREE SURFACE BY LINEAR ACCELERATION POTENTIAL
AD-603160 N64-31830 23-03

MONTE CARLO COMPUTER SOLUTIONS OF KNUDSEN AND NEAR-KNUDSEN FLOW THROUGH WIDE, PARALLEL, AND SKEWED FLAT PLATES
NASA-TM-X-53112 N64-32644 23-11

FLAW
NONDESTRUCTIVE ULTRASONIC TESTING AND INSPECTION OF FLAWS IN MATERIALS
ASD-TD-61-205, PT. 2 N64-14319 06-17

FLEXIBILITY
SA PLASTICITY
CF ELASTICITY
PULSE HEIGHT MAINTAINING FLEXIBLE LIGHT PIPE COUPLING BETWEEN SCINTILLATOR AND PHOTOMULTIPLIER TUBE
UR-875-18 N64-12388 03-23

FLEXIBILITY & TENSILE STRENGTH OF COMMERCIAL TUNGSTEN SHEET
ASD-TDR-63-585, VOL. 1 N64-13767 05-18

FLEXIBLE POLYMER FILM AND ADHESIVE RESIN BONDING OF ALUMINUM TO ALUMINUM - LOAD AND VIBRATION TEST
NASA-CR-55721 N64-16272 08-34

MATRIX METHOD USING FLEXIBILITY INFLUENCE COEFFICIENTS FOR DETERMINING MODE SHAPES AND NATURAL FREQUENCIES OF SPACE VEHICLES
NASA-TM-X-54566 N64-16332 08-33

SURFACE FLEXIBILITY EFFECT ON STABILITY OF LAMINAR FLOW
ARC-CP-602 N64-21699 15-11

EFFECT OF FLEXIBLE SURFACE RESPONSE ON REYNOLDS STRESSES NEAR FLOW BOUNDARY
REPT.-1138 N64-22536 15-11

FLEXIBLE FIBROUS MATERIALS AND COATINGS FOR EXPANDABLE REENTRY SYSTEMS N64-23704 16-18

ADHESIVES WITH HIGH FLEXIBILITY AND CONDUCTIVITY AT LOW TEMPERATURES
MLM-1207 N64-28501 20-07

SYNTHESIS OF POLYETHER URETHANE ELASTOMERS & THEIR OIL RESISTANCE AND LOW TEMPERATURE FLEXIBILITY
AD-421811 N64-31249 22-19

FLEXIBLE INFLATED SKIRT FOR GROUND EFFECT MACHINE
TRECOM-TR-64-18 N64-31903 23-04

FLEXIBLE BODY
STRESS IN HEMISPHERICAL CELLULAR SUPPORT STRUCTURE WITH FLEXIBLE ELASTIC SUPPORTING SHELL
UCRL-7473 N64-13193 04-34

FATIGUE, LOADING, AND PROBABLE DENSITIES OF FLEXIBLE BARS
DVL-249 N64-15025 07-33

STATE DETERMINATION FOR FLEXIBLE VEHICLE WITHOUT MODE SHAPE REQUIREMENT
NASA-CR-53099 N64-16742 08-04

TRIM STATE AND LONGITUDINAL STABILITY OF SLENDER INTEGRATED FLEXIBLE AIRCRAFT CONFIGURATION
ARC-R&M-3345 N64-18326 10-04

DETERMINATION OF STRESS AND DEFORMATION IN FLEXIBLE PLATES AND SHELLS USING PHOTOELASTIC COATINGS
NASA-TT-F-220 N64-25055 17-13

STRUCTURAL FLEXIBILITY OF ROTATING SPACE STATION
ARD-TR-02-004 N64-25212 17-32

FLEXIBLE WING
THEORETICAL AERODYNAMICS OF FLEXIBLE WINGS AT LOW SPEEDS - ONE-LOBED PARAWINGS
VIDYA-84 N64-13620 05-03

FLEXIBLE WING PARAGLIDER FOR CONTROLLED CARGO DELIVERY FROM FIXED OR ROTARY WING AIRCRAFT TO PREDETERMINED LANDING SITE
TRECOM-TR-63-64 N64-14978 06-04

VIBRATIONAL FREQUENCY OF FLEXIBLE WING WITH AILERON - TORSIONAL VIBRATION
FTD-MT-63-133 N64-18681 11-13

AERODYNAMIC ANALYSIS AND WIND TUNNEL TESTS ON FLEXIBLE WING N64-21205 14-03

PROPELLER WHIRL FLUTTER OF POWER PLANT ON FLEXIBLE WING
NASA-TN-D-2399 N64-27662 19-03

AERODYNAMICS OF FLEXIBLE WINGS AT LOW SPEEDS
VIDYA-133 N64-27789 19-03

FLIGHT
S BALLOON FLIGHT
S BUFFETING
S HYPERSONIC FLIGHT
S INTERPLANETARY FLIGHT
S JET FLIGHT
S POSTFLIGHT
S ROCKET FLIGHT

FLIGHT CHARACTERISTICS
LOW-SUBSONIC FLIGHT CHARACTERISTICS OF MODEL SUPERSONIC AIRCRAFT CONFIGURATION WITH PARAWING AS A LANDING AID
NASA-TN-D-2031 N64-10399 01-04

FLIGHT CHARACTERISTICS, INSTRUMENTATION, AND CONSTRUCTION OF L-29 SINGLE TURBOJET TRAINING AIRCRAFT
FTD-TT-63-299/1 N64-12084 03-04

SIMULATION OF LIFT-INDUCED ACCELERATION AND TRUE SPEED ON PILOT OPINION OF LONGITUDINAL FLYING QUALITIES
ASD-TDR-63-399 N64-16647 08-10

AIRCRAFT FLIGHT CHARACTERISTICS
FTD-TT-63-727/1&2 N64-26726 18-04

FLIGHT CONDITION
METEOROLOGICAL CONDITIONS OF FLIGHT IN UPPER HALF OF TROPOSPHERE NEAR CUMULONIMBUS CLOUDS N64-12788 04-21

PREDICTION OF BOUNDARY LAYER TURBULENCE AND NOISE DURING FLIGHT CONDITIONS N64-18547 11-10

CHEMICALLY REACTING LAMINAR AIR BOUNDARY LAYER EQUATIONS FOR CONE SHAPED REENTRY BODIES AT VARIED FLIGHT CONDITIONS AND WALL TEMPERATURES
R64SD14 N64-19135 11-11

FLIGHT CONDITIONS FROM EARTH TO MARS
FTD-TT-63-93/1&2&4 N64-21659 15-29

SPACE FLIGHT CONDITIONS, ENVIRONMENT, AND ASSIGNMENTS OF ASTRONAUTS N64-25165 17-14

MOTION EQUATIONS FOR COMPUTER SIMULATION OF HELICOPTER IN ALL FLIGHT CONDITIONS
NAVTRADEVCEN-1205-1 N64-25214 17-10

PHYSIOLOGICAL BASE-LINE STUDIES FOR CHIMPANZEES UNDER STABLE FLIGHT CONDITIONS
ARL-TDR-64-4 N64-26197 18-16

FLIGHT CONTROL
SA ATTITUDE CONTROL
SA MANEUVER
BOUNDARY LAYER, FLIGHT CONTROL, AND STRUCTURAL DYNAMICS RESEARCH FOR X-15A AIRCRAFT

N64-12910 04-04

OPTIMIZATION OF FLIGHT COURSE ADJUSTMENT WITH VANES UNDER TIME-DEPENDENT DISTURBANCES
N64-14614 06-04

REENTRY AEROPHYSICS, PENETRATION, GUIDANCE AND CONTROL, RECOVERY SYSTEMS AND SPACE ELECTROMAGNETICS
AD-427701 N64-15251 07-01

FLIGHT CONTROL COMPUTER FOR SATURN LAUNCH VEHICLE
N64-16170 08-22

INFORMATION REQUIREMENTS AND PERFORMANCE CAPABILITES OF HUMAN OPERATOR FOR CONTROLLING AIRCRAFT IN LOW ALTITUDE TERRAIN FOLLOWING FLIGHT
CAL-IH-1715-E-5 N64-16489 08-14

FLIGHT DATA COMPUTER AS REENTRY CONTROL DIRECTOR
SMFD-2-6 N64-16824 08-20

FAILURE-CORRECTING TECHNIQUES APPLIED TO AUTOMATIC FLIGHT CONTROL SYSTEMS
REPT.-63APJ13 N64-17149 09-22

FLIGHT CONTROL SYSTEMS FOR REENTRY GLIDER LATERAL CONTROL
ASD-TDR-62-699 N64-17443 09-22

ADAPTIVE AUTOMATIC FLIGHT CONTROL FOR REENTRY GLIDER
N64-17811 09-30

HOVERING FLIGHT CONTROL REQUIREMENTS FOR VTOL AIRCRAFT
AGARD-472 N64-19855 12-04

SEALANTS & ADHESIVES FOR BEARING INSTALLATION IN STEEL AND ALUMINUM HOUSING BORES OF FLIGHT CONTROL SYSTEM
FGT-3082 N64-20044 13-19

DYNAMIC PROGRAMMING METHODS FOR OPTIMUM FLIGHT CONTROL PROBLEMS
FDL-TDR-64-11 N64-20862 14-20

LINEAR FLIGHT CONTROL SYSTEMS USING OPTIMAL CONTROL THEORY
CAL-IH-1648-F-1 N64-21106 14-04

NONLINEAR FLIGHT CONTROL SYSTEMS - SIMPLIFIED PITCH RATE AUTOPILOT AND HIGH GAIN ADAPTIVE PITCH RATE AUTOPILOT
ASD-TDR-62-369 N64-21708 15-09

ANALYTICAL TECHNIQUES IN ANALYZING RADIATION EFFECTS TO FLIGHT CONTROL SYSTEMS
IBM-63-521-21 N64-22308 15-09

NAVIGATION, MINING, AND MILITARY APPLICATIONS OF GYROSCOPES
FTD-TT-63-837/1&2&4 N64-22356 15-22

DYNAMIC PROPERTIES OF TURBOJET ENGINES AS UNITS IN AUTOMATIC FLIGHT CONTROL SYSTEMS
N64-23594 16-06

NEUTRON AND GAMMA RADIATION EFFECTS ON FLIGHT CONTROL SYSTEMS
FDL-TDR-64-30 N64-24091 16-06

DIGITAL FLIGHT CONTROL SYSTEM ELECTROHYDRAULIC SERVOCONTROL VALVE
RTD-TDR-63-4240 N64-24183 16-15

TRAINING PLAN FOR PERSONNEL TO MONITOR FLIGHT CONTROL SYSTEM FOR DETECTING SLOW MALFUNCTION PROBLEMS
N64-25355 17-16

ALTIMETER DISPLAY SYSTEM - FLIGHT CONTROL INFORMATION REQUIREMENTS
ASD-TDR-63-621, PT. 1 N64-26191 18-15

FLIGHT CONTROL SYSTEM FOR X-20 AIRCRAFT /DYNA-SOAR SPACE GLIDER/
SEG-TDR-64-8 N64-28554 20-25

GAMMA GUIDANCE SYSTEM FOR HELICOPTER FLIGHT-FORMATION CONTROL
NADC-EL N6301 N64-28910 20-15

FLIGHT CONTROL, VEHICLE STRUCTURES, DESIGN, SYSTEMS SUPPORT, AND WIND TUNNEL TEST PROGRAM OF X-22A TRI-SERVICE V/STOL AIRCRAFT
REPT.-2127-933006 N64-29718 21-04

WIND TUNNEL TEST RESULTS, WEIGHT CONTROL PROGRAM, AND ACOUSTIC NOISE TESTS OF X-22A TRI-SERVICE V/STOL AIRCRAFT
REPT.-2127-9330010 N64-29719 21-04

PROCESS IDENTIFICATION, SYNTHESIS, AND SELF-ADAPTIVE CONTROL OF ADVANCED AEROSPACE VEHICLES
ASD-TDR-63-854 N64-29973 21-06

INTERVENING LEVELS OF CONTROL BETWEEN FULL MANUAL AND FULL AUTOMATIC - EFFECT UPON PILOT PERFORMANCE
AD-441953 N64-30199 21-14

TEST PLAN FOR X-22A AIRCRAFT - DESCRIPTIONS AND SPECIFICATIONS FOR PROPULSION SYSTEM, FLIGHT CONTROL, HYDRAULIC SYSTEM, ELECTRIC SYSTEM, AND INSTRUMENTATION
REPT.-2127-931001 N64-31306 22-04

APPLICATION OF SELF-ADAPTIVE CONTROL TECHNIQUES TO FLEXIBLE SUPERSONIC TRANSPORT
CHL-IH-1696-F-2 N64-32285 23-06

X-22A TRI-SERVICE V/STOL AIRCRAFT - FREEZE CONFIGURATIONS, WIND TUNNEL TESTS, FLIGHT CONTROL SYSTEM REDESIGN, WEIGHT CONTROL, AND DUCT NOISE SPECIMEN TESTS
REPT.-2127-933009 N64-32298 23-04

FLIGHT FATIGUE
S PHYSIOLOGY

FLIGHT INSTRUMENT
SA HORIZON SCANNER
SA POSITION INDICATOR
AIR LOAD MEASUREMENTS DURING FLIGHT USING PRESSURE TRANSDUCER MOUNTED ON ROTOR BLADE SURFACE
REPT.-299-099-200 N64-14761 06-15

INSTRUCTIONS FOR AUTOMATIC FLIGHT PROGRESS STRIP LOADER - DATA PROCESSING & DISPLAY SYSTEM
N64-19251 11-17

FLIGHT TEST INSTRUMENTATION FOR X-15 AIRCRAFT
NASA-TM-X-56000 N64-19899 12-15

AUTOMATIC DEVICE FOR SEPARATION OF PERFORATED FAN FOLDS OF FLIGHT PROGRESS STRIP LOADER
RP-64-22 N64-20513 13-06

FLIGHT MECHANICS
DETERMINATION OF SOUND PROPAGATION RATE IN LIQUIDS FLUID DYNAMICS, FLIGHT MECHANICS, THERMODYNAMICS AND STRUCTURAL DYNAMICS
S.H.F. FUND PAPER-FF-34 N64-10080 01-01

FLIGHT MECHANICS & AERONAUTICS N64-11883 03-03

HANDLING QUALITIES OF V/STOL AIRCRAFT - FLIGHT MECHANICS N64-18505 10-04

CALCULUS OF VARIATIONS, DYNAMIC PROGRAMMING, AND STEEPEST DESCENT METHODS USED AS OPTIMIZATION TECHNIQUES FOR FLIGHT MECHANICS PROBLEMS
SM-45811 N64-20478 13-20

ATMOSPHERIC FLIGHT MECHANICS STUDIES USING FREE FLIGHT TESTING IN CONVENTIONAL WIND TUNNEL
AIAA PAPER-64-476 N64-25360 17-02

BIBLIOGRAPHY OF UPPER ATMOSPHERE AND SPACE
NASA-TT-F-229 N64-25644 17-12

SELECTED ARTICLES IN FLUID DYNAMICS, FLIGHT MECHANICS, ACOUSTICS, AND MATHEMATICAL PHYSICS
JPRS-25622 N64-27976 20-23

MECHANICS OF COSMIC FLIGHT WITH PROPULSION SYSTEM LIMITATIONS OF POWER OR TIME - OPTIMAL CONTROL
N64-27988 20-27

HISTORY, FACILITIES, & RESEARCH PROJECTS OF

ORGANIZATION FOR STUDY OF AERODYNAMICS, MATERIALS SCIENCE, FLIGHT MECHANICS, STRUCTURES, COMBUSTION, PROPULSION, AND MATHEMATICS N64-30477 22-10

FLIGHT PATH
CF TRAJECTORY
DIGITAL RECORDING AND PROCESSING OF FLIGHT PATH DATA FROM THEODOLITE AND RADAR MEASUREMENT VALUES N64-10235 01-22

FEASIBILITY STUDY OF BANG-BANG PATH CONTROL FOR REENTRY VEHICLES
NASA-TN-D-2049 N64-10452 01-06

FLIGHT PATH AND ATMOSPHERIC VARIATION EFFECTS ON BOOM PROPAGATED FROM SUPERSONIC AIRCRAFT
NASA-TR-R-191 N64-15406 07-23

PERMISSIBLE LIMITS OF OSCILLATORY MOTION IN TERMS OF MAXIMUM DEVIATION FROM INTENDED FLIGHT PATH
FPRC-1168 N64-16949 09-04

FLIGHT MEASUREMENTS OF SIDESTEP MANEUVER TO CORRECT LATERAL ERROR DURING LANDING
ARC-R&M-3347 N64-18152 10-10

OPTIMUM TRAJECTORY PATH COMPUTATIONS IN PROBLEM OF BOLZA
RP-43 N64-18900 11-29

SOLUTION TO EULER-LAMBERT EQUATION FOR FLIGHT ORBITS CLOSE TO HOHMANN ORBITS N64-21628 15-29

INVESTIGATION OF METEORIC MATTER ALONG FLIGHT TRAJECTORY OF MARS I INTERPLANETARY STATION USING PIEZOELECTRIC TRANSDUCERS N64-21639 15-29

RANGER V SPACECRAFT FLIGHT PATH DETERMINATION FROM TRANSPONDER AND BEACON TRACKING DATA
NASA-CR-56567 N64-24102 16-08

APPROXIMATE SOLUTIONS FOR FLIGHT PATH ANGLE OF REENTRY VEHICLE IN UPPER ATMOSPHERE
NASA-TN-D-2379 N64-25914 18-29

EFFECTS OF WINDS ON SOUNDING ROCKET FLIGHT PATH
CARDE-TN-1613/64 N64-29355 21-33

ANGLE-OF-ATTACK CONVERGENCE OF SPINNING BODIES ENTERING PLANETARY ATMOSPHERES AT LARGE INCLINATIONS TO FLIGHT PATH
NASA-TR-R-210 N64-32435 23-23

FLIGHT PERFORMANCE
FLIGHT PERFORMANCE OF STANDARD LAUNCH VEHICLE 1
TDR-269/4303/-2 N64-12184 03-04

ESTIMATING BALLISTIC MISSILE ATTITUDE DURING POWERED FLIGHT PERIOD FROM TRACK AND RATE OBSERVATIONS
SSD-TDR-63-292 N64-16446 08-30

FLIGHT TEST OF PERFORMANCE, HANDLING QUALITIES, AND OPERATIONAL CHARACTERISTICS OF SLIPSTREAM STOL TRANSPORT AIRCRAFT
NASA-TN-D-2231 N64-17726 09-04

SATURN I FLIGHT TEST EVALUATION
AIAA PAPER-64-322 N64-23227 16-31

RELIABILITY AND MAINTENANCE PROBLEMS IN REACTOR IN-FLIGHT TEST /RIFT/ PROJECT - EVALUATION METHODS FOR FLIGHT PERFORMANCE RELIABILITY N64-28292 20-17

METHODS FOR EVALUATION OF FLIGHT PERFORMANCE RELIA N64-28294 20-17

DESCRIPTION AND FLIGHT PERFORMANCE OF RAM B LAUNCH VEHICLE
NASA-TN-D-2437 N64-28329 20-31

ANNUAL VARIATION OF FLIGHT PERFORMANCE OF VISCOUNT TRANSPORT AIRCRAFT RECORDED BY FATIGUE TESTING MACHINE
ARC-CP-667 N64-28851 20-04

FLIGHT PLAN
SUPERSONIC AIR TRANSPORT FLIGHT PROFILE SIMULATION FOR AIR TRAFFIC CONTROL DEVELOPMENT AND FLIGHT PLANNING N64-10349 01-04

FLIGHT SEQUENCE IN SHORT-DISTANCE TRAFFIC AREA OF AIRPORTS
REPT.-62/2 N64-10986 02-22

MISSION AND FLIGHT SEQUENCE OF SATURN I /SA-6/ LAUNCH VEHICLE N64-20492 13-30

FLIGHT SIMULATION
CF TRAINING
SUPERSONIC AIR TRANSPORT FLIGHT PROFILE SIMULATION FOR AIR TRAFFIC CONTROL DEVELOPMENT AND FLIGHT PLANNING N64-10349 01-04

INTERACTION OF VISUAL, VESTIBULAR, AND MOTOR SENSE ORGANS UNDER SIMULATED FLIGHT CONDITIONS N64-11522 03-14

PILOT BIOMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR MONITORING PERFORMANCE DURING CENTRIFUGE SIMULATIONS OF SPACE FLIGHT
NADC-MA-6308 N64-12256 03-16

ANALOG COMPUTER PROGRAM FOR V/STOL SIMULATION OF VARIABLE-STABILITY HELICOPTER
NASA-TN-D-1970 N64-12958 04-04

RESTRAINT & PROTECTION OF HUMAN EXPERIENCING SMOOTH OR OSCILLATING ACCELERATIONS SIMULATING SPACE FLIGHT N64-13459 05-16

SIMULATED FLIGHT TO PLOT FIELD STRENGTH OF MISSILE ANTENNA SYSTEMS
RG-TR-63-19 N64-13650 05-10

SIMULATION OF METEORIC ENTRY INTO EARTH ATMOSPHERE USING STAINLESS STEEL PELLETS
NASA-TN-D-2268 N64-19060 11-30

DESIGN CRITERIA FOR ARC HEATER FOR ATMOSPHERIC ENTRY SIMULATION
R63SD49 N64-20677 13-24

DESIGN CRITERIA FOR ARC HEATER FOR ATMOSPHERIC ENTRY SIMULATION
R63SD49 N64-20677 13-24

REENTRY CONDITION SIMULATOR FOR TESTING NOSE CAPS OF DYNA-SOAR SPACE GLIDER
REPT.-311.11 N64-21820 15-10

REENTRY CONDITION SIMULATOR FOR TESTING NOSE CAPS OF DYNA-SOAR SPACE GLIDER
REPT.-311.11 N64-21820 15-10

FLIGHT SIMULATION GUIDANCE & CONTROL
NASA-CR-82 N64-24088 16-04

PILOT EVALUATION OF DYNAMIC STABILITY CHARACTERISTICS OF SUPERSONIC TRANSPORT IN CRUISING FLIGHT USING FIXED-BASE SIMULATOR
NASA-TN-D-2436 N64-28328 20-04

PILOT PERFORMANCE AND PHYSIOLOGICAL RESPONSE TO SIMULATED LOW-ALTITUDE HIGH-SPEED FLIGHT N64-28948 20-14

CREW PERFORMANCE DURING REAL TIME LUNAR LANDING MISSION SIMULATION
NASA-TN-D-2447 N64-29206 21-14

SIMULATION OF NEW CONTROL CONCEPT FOR AUTOMATIC TERRAIN FOLLOWING IN HIGH SPEED, LOW ALTITUDE AIRCRAFT PENETRATION
FDL-TDR-64-104 N64-29975 21-04

FLIGHT PROFILE SIMULATION TESTS OF CESIUM ION ENGINE FLIGHT TEST PAYLOAD
ASD-TDR-63-86 N64-30124 21-27

LANDING IMPACT AND MANEUVERING LOADS ON SIMULATED SUPERSONIC TRANSPORT CONFIGURATIONS
BNJV-A-Q3 N64-31285 22-10

FLIGHT SIMULATION AND EFFECTS OF SEVERE AIR

TURBULANCE ON JET AIRLINE PILOTS
NADC-ML-6411 N64-31666 23-14

APOLLO AND GEMINI MISSION SIMULATION AND ANALYSIS PLANS N64-32351 23-10

PERFORMANCE MEASUREMENTS IN FLIGHT SIMULATION
NASA-CR-59063 N64-32491 23-10

FLIGHT SIMULATOR
CF TRAINING EQUIPMENT
FLIGHT SIMULATOR STUDY OF VELOCITY AND ATTITUDE CONTROL SYSTEMS WITH PILOT PERFORMANCE CONSIDERATION
EWR-101-63 N64-10971 02-04

PILOTED FLIGHT SIMULATORS FOR TAKEOFF AND LANDING RESEARCH
AGARD-430 N64-11910 03-10

ARMY-NAVY AIRCRAFT INSTRUMENTATION RESEARCH - VERTICAL DISPLAY-CONTACT ANALOG SIMULATOR FOR HOVERING AND AIR TAXI MANEUVERS
D228-421-016 N64-12830 04-15

CENTRIFUGE AS FLIGHT SIMULATOR - RESTRAINT SYSTEMS AND PHYSIOLOGICAL REACTION TO ACCELERATION STRESS N64-13457 05-16

SIMULATOR ASSESSMENTS OF TAKEOFF AND LANDING IN AIRCRAFT DESIGN
AGARD-432 N64-13884 05-10

FLIGHT AND GROUND-BASED DYNAMIC FLIGHT SIMULATOR, STUDY OF HANDLING AND AERODYNAMICS OF LOW-ALTITUDE, HIGH-SPEED AIRCRAFT
AGARD-443 N64-16292 08-04

SIMULATOR STUDY OF HUMAN PERFORMANCE DURING LOW ALTITUDE, HIGH SPEED FLIGHT
TRECOM-TR-63-52 N64-16648 08-14

SIMULATOR TO IMPROVE HANDLING QUALITIES OF VTOL AIRCRAFT
LR-302 N64-19280 11-22

POINT LIGHT SOURCE FOR VISUAL DISPLAY SYSTEM OF FLIGHT SIMULATORS
NAVTRADEVCEN-1628-16 N64-19675 12-10

VTOL AIRCRAFT HANDLING QUALITY STUDIES USING FIXED BASE SIMULATORS OPERATING UNDER INSTRUMENT FLIGHT CONDITIONS
AGARD-471 N64-19854 12-04

SIMULATING FLIGHT ENVIRONMENT SHOCK ON ELECTRODYNAMIC SHAKER N64-20247 13-10

MEASURING PILOT PERFORMANCE AND CONTROL IN FLIGHT TASK SIMULATOR
IAM-TM-226 N64-25828 17-14

PILOT PERFORMANCE IN FLIGHT SIMULATORS & AIRCRAFT
AIAA PAPER-64-554 N64-26575 18-10

MOVING COCKPIT PILOTED SIMULATOR TEST OF VTOL AIRCRAFT ALTITUDE CONTROL REQUIREMENTS DURING HOVER
NASA-TN-D-2451 N64-28059 20-10

GIBSON THEORY ON VISUAL PERCEPTION AND HUMAN FACTORS - SENSORY CUES AND DYNAMIC DISTORTION IN HELICOPTER FLIGHT SIMULATOR
NAVTRADEVCEN-294-5 N64-28636 20-14

ADVANCED AIRCRAFT SIMULATOR FOR PILOT TRAINING
NASA-RP-337 N64-31214 22-10

FLIGHT TEST
SECOND CENTAUR FLIGHT TEST SCHEDULE N64-10375 01-31

CRYSTAL GROWTH AND KINETICS OF FORMATION
FLIGHT TEST DATA ON LONGITUDINAL, LATERAL, AND DIRECTIONAL STABILITY AND CONTROL DERIVATIVES OF X-15 AIRCRAFT
JPRS-18257 N64-10638 01-25

MICROWAVE RADIOMETER PICTURES TAKEN DURING FLIGHT TESTS INCLUDE THERMAL CONTRAST TARGETS AND SOIL COMPOSITION BOUNDARIES N64-10926 02-21

CHARACTERISTICS OF BLACK BRANT I ROCKET - PRE-FLIGHT CALCULATIONS AND FLIGHT TEST RESULTS FROM FIRST SEVEN FIRINGS
CARDE-TM-695/63 N64-11634 03-04

F-8 AIRCRAFT FLIGHT TEST SUMMARY
FT/F-8/-306 N64-12386 03-04

GROUND AND FLIGHT TESTS OF SOLAR ORIENTATION CONTROL SYSTEM FOR SPACECRAFT
NASA-TM-X-944 N64-12712 04-22

AUTOMATIC & MANUAL LANDING SYSTEM - FLIGHT TEST
AGARD-425 N64-13447 05-10

MARVEL PROJECT - PRELIMINARY FLIGHT TESTING OF TEST-BED AIRCRAFT, MARVELETTE
TRECOM-TR-63-66 N64-13849 05-04

FLIGHT TEST EVALUATION OF AIRPLANE DYNAMIC LONGITUDINAL STABILITY IN LOW ALTITUDE, HIGH SPEED REGION
AD-427696 N64-13885 05-04

IN-FLIGHT CALIBRATION OF SIDESLIP VANES USING FLAT TURN TECHNIQUE
COA-AERO-168 N64-14236 06-03

AXIAL FORCE, STABILITY, & ENVIRONMENTAL PRESSURE DATA ANALYSES FROM FLIGHT EVALUATION OF SATURN I, BLOCK I VEHICLES
NASA-TN-D-2002 N64-14392 06-30

NUCLEAR RAMJET MISSILES - FLIGHT TEST SAFETY N64-14567 06-27

DATA REDUCTION AND INTERPRETATION METHODS FOR HEAT TRANSFER DATA FROM REENTRY AND OTHER FLIGHT TESTS
NASA-CR-55580 N64-15535 07-30

F-8E AIRCRAFT FLIGHT TEST SUMMARY
FT/F-8/-308 N64-15682 07-04

FLIGHT TEST OF HYDROSKI RESEARCH VEHICLE HRV-1 AMPHIBIAN EQUIPPED WITH PBM TYPE SKI
TEC-6302-4 N64-15826 07-03

FLIGHT TEST TO DETERMINE ALTITUDE EFFECT ON HEIGHT-VELOCITY DIAGRAM OF SINGLE ENGINE HELICOPTER
FAA-ADS-1 N64-16290 08-04

HIGH SPEED, LOW ALTITUDE FLIGHT TESTS FOLLOWING TERRAIN, AND SPRING-MOUNTED SEAT TESTS IN FLIGHT
AGARD-442 N64-16662 08-04

XH-51A HELICOPTER TEST FLIGHT
LAC-396358 N64-17279 09-04

FLIGHT EVALUATION OF WIDE-ANGLE, OVERLAPPING MONOCULARS FOR PROVIDING PILOT FIELD OF VISION
NASA-TN-D-2265 N64-17753 09-23

WIND-COMPENSATION METHOD AND APPLICATION TO FLIGHT TESTS OF TRAILBLAZER MISSILES
NASA-TN-D-2053 N64-18077 10-32

FLIGHT EVALUATION OF VEHICLE BENDING DATA FOR SATURN I LAUNCH VEHICLE - STRUCTURAL VIBRATION, DYNAMIC RESPONSE N64-18545 11-30

FLIGHT TESTS OF TRAILBLAZER I REENTRY VEHICLES
NASA-TN-D-2189 N64-18730 11-30

FLIGHT TEST OF TRAILBLAZER I REENTRY VEHICLE AND PRODUCTION OF ARTIFICIAL IRON METEORS
NASA-TN-D-2270 N64-19227 11-30

AIRCRAFT MODEL FLIGHT TEST TECHNIQUES FOR LOW SPEED STUDIES OF DYNAMIC STABILITY AND CONTROL
AGARDOGRAPH-76 N64-19780 12-04

PROPULSION IMPROVEMENTS ACHIEVED DURING FLIGHT TESTING OF SATURN LAUNCH VEHICLES
AIAA PAPER-64-537 N64-19890 12-27

MISSION AND OPERATION OF AIR FORCE FLIGHT TEST CENTER GROUND SUPPORT AND TEST FACILITY SYSTEMS
FTC-TIH-63-2003 N64-20151 13-10

FLIGHT TEST OF UH-1E HELICOPTER
REPT.-204-099-171 N64-21993 15-04

EVALUATION OF X-15 FLIGHT TESTS
NASA-RP-186 N64-22066 15-04

INSTRUMENT APPOACHES WITH STEEP GRADIENT AIRCRAFT
TRECOM-TR-63-28. N64-22896 16-04

PRACTICE FLIGHT MISSION OF INTERCONTINENTAL BOMBER AIRCRAFT
FTD-TT-63-943/1 N64-23429 16-31

WIND TUNNEL AND FLIGHT TESTING OF AIRPLANE CONFIGURATION INFLUENCE ON SONIC BOOM CHARACTERISTICS
NASA-RP-208 N64-25003 17-04

FLIGHT TEST OF DYNA-SOAR SPACE GLIDER TRACKING AND COMMUNICATION SUBSYSTEMS - X-20 AIRCRAFT
CR-64-408-34.1-1 N64-25746 17-08

CHECKOUT AND FLIGHT TEST OF AIRBORNE REFUELING DROGUE
ST31-53R-64 N64-26020 18-26

FLIGHT TEST OF SCALE MODEL VECTORED-THRUST JET VTOL TRANSPORT AIRCRAFT
NASA-TN-D-2285 N64-26412 18-04

FLIGHT TEST DATA OF X-15A AIRCRAFT
DLR-MITT.-64-02 N64-26698 18-04

EVALUATION OF ATMOSPHERIC CONDITIONS DURING FLIGHT TEST OF SATURN I /SA-5/ LAUNCH VEHICLE
NASA-TM-X-53040 N64-26804 18-32

FLIGHT TESTS OF X-21A AIRCRAFT TO DEMONSTRATE FEASIBILITY OF LAMINAR FLOW CONTROL
NOR-61-134 N64-26978 19-04

FLIGHT TEST OF DO 27 AIRCRAFT STRUCTURAL WING - LEADING EDGE LIFT FORCES
AVA-63-02 N64-27140 19-04

FLIGHT TESTS OF CRICKETSONDE METEOROLOGICAL ROCKET
AFCRL-64-469 N64-27437 19-04

DESCRIPTION AND OPERATION OF SPACECRAFT IN SPACE ELECTRIC ROCKET TEST /SERT/ THRUSTOR FLIGHT TEST
NASA-TM-X-52050 N64-28074 20-32

FLIGHT TEST RESULTS FROM FOUR-COMPONENT BALANCE & OTHER AIRBORNE INSTRUMENTATION IN SUPERSONIC MISSILE WITH CRUCIFORM RECTANGULAR WINGS
WRE-TN-SAD-88 N64-28731 20-15

TRACKING SYSTEM REQUIREMENTS AND DESIGN OF OPTIMIZED TEST REGIME FOR EVALUATING BALLISTIC MISSILE INERTIAL GUIDANCE SYSTEMS IN FLIGHT TEST
N64-29104 21-08

FLIGHT TESTS OF OMEGA VERY LOW FREQUENCY LONG-RANGE HYPERBOLIC RADIO NAVIGATION SYSTEM
NRL-MR-1543 N64-30739 22-08

FLOW VISUALIZATION TECHNIQUES FOR FLIGHT TESTS
TRECOM-TR-64-39 N64-32447 23-04

FLIGHT TEST OF MODIFIED GROUND BEACON AND DISTANCE MEASURING EQUIPMENT FOR INSTRUMENT LANDING SYSTEM
AD-602743 N64-33068 24-22

INTRODUCING SUPERSONIC TRANSPORTS INTO AIR TRAFFIC CONTROL SYSTEMS - FLIGHT TESTS
NASA-TN-D-2219 N64-33082 24-22

VORTEX GENERATION - WIND TUNNEL AND IN-FLIGHT MEASUREMENTS N64-33738 24-11

REENTRY FLIGHT DEMONSTRATION OF SYSTEM FOR NUCLEAR AUXILIARY POWER-10A - DISASSEMBLY, PREFLIGHT AND POSTFLIGHT TEST ANALYSIS
SC-RR-64-515 N64-33746 24-06

FLIGHT TIME
ION EMISSION IN ANALYZER OF TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-63-722 N64-12611 04-15

DESIGN AND CIRCUIT CHARACTERISTICS OF 1024 CHANNEL TIME-OF-FLIGHT ANALYZER - ANALOG-TO-DIGITAL CONVERTER
EUR-475.I N64-14749 06-23

NANOSECOND TIME CODER FOR FLIGHT TIME ANALYSIS
EUR-491.E N64-15559 07-23

ION DISSOCIATION IN DRIFT TUBE OF TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-64-90 N64-24197 16-15

OPTIMUM COPLANAR FLIGHT BETWEEN ORBITS ACCOUNTING FOR INNER RESERVE MASS PROPORTION TO FLIGHT TIME
NASA-TT-F-8928 N64-26929 18-29

ACCESSIBLE REGIONS METHOD OF ENERGY AND FLIGHT TIME ANALYSIS FOR ONE-WAY BALLISTIC INTERPLANETARY MISSIONS
NASA-CR-58359 N64-28840 20-29

EIGHT INPUT ADAPTER FOR MODIFYING TIME OF FLIGHT ANALYZER
IDO-16953 N64-30630 22-09

FLIGHT-TIME SHIFT EQUATIONS FOR SPURIOUS FRAGMENT PEAKS ARISING FROM CHARGE TRANSFER AND ION DISSOCIATION REACTIONS OCCURRING INSIDE POTENTIAL BARRIER OF REACTANT REGION
AFCRL-64-519 N64-31806 23-24

OBSERVATION OF 2,1 CHARGE TRANSFER IN TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-64-591 N64-31810 23-15

THERMAL DECOMPOSITION OF NITROGEN FLUORINE RADICAL IN SHOCK TUBE COUPLED TO TIME-OF-FLIGHT MASS SPECTROMETER
AR-IS-64 N64-33494 24-07

FLIGHT TRAINING
UNIVERSAL DIGITAL OPERATIONAL FLIGHT TRAINER - DIGITAL COMPUTER FOR FLIGHT SIMULATION
AMRL-TDR-63-133 N64-16827 08-10

EFFECT OF VARIATIONS IN MOTION FIDELITY DURING LOW ALTITUDE SIMULATED FLIGHT TRAINING
AMRL-TDR-63-108 N64-18595 11-10

ASTRONAUT TRAINING BY FLIGHT INSTRUCTOR
JPRS-24660 N64-20829 14-01

F-105F FIGHTER AIRCRAFT TRAINING SUITABILITY TEST
TAC-TR-63-20 N64-24077 16-04

PERSONALITY ORIENTATION AND SUCCESS IN FLIGHT TRAINING
REPT.-38 N64-30148 21-14

PILOT TRAINING CABIN FOR BAC 111 AIRCRAFT, CARAVELLE AIRCRAFT, MINIATURE COMPUTER FOR GUIDANCE AND ON-BOARD CONTROL, AND LOCKHEED JETSTAR FOR TRAINING N64-31515 23-18

FLIGHT VEHICLE
SA AIRCRAFT
SA DRONE
SA HELICOPTER
INSULATING MATERIAL FOR FLIGHT VEHICLE
A260 N64-13251 04-17

MAN-MACHINE SYSTEM SIMULATION FOR FLIGHT VEHICLES
N64-18159 10-10

FLEXIBLE FLIGHT VEHICLE TRANSFER FUNCTION FACTORS FOR USE IN AUTOPILOT DESIGN
RTD-TDR-63-4218 N64-21093 14-22

FIRE AND EXPLOSION HAZARDS OF FLIGHT VEHICLE COMBUSTIBLES
ASD-TR-61-278, SUPPL. 3 N64-28608 20-26

ANNOTATED BIBLIOGRAPHY OF STAGE SEPARATION AND EJECTION SYSTEMS OF FLIGHT VEHICLES

SB-64-14 N64-29314 21-06

POWER SPECTRAL DENSITY FUNCTION IN ANALYSIS OF FLIGHT VEHICLE VIBRATION DATA
NASA-CR-90 N64-30830 22-33

MATERIALS SELECTION AND MECHANICAL DESIGN FOR EXPERIMENTAL LIQUID HYDROGEN PUMP FOR FLIGHT VEHICLE SYSTEMS
R-5343-3 N64-31278 22-17

MATERIAL TESTING & PERFORMANCE CHARACTERISTICS OF EXPERIMENTAL HYDROGEN PUMP FOR FLIGHT VEHICLE SYSTEMS
R-5343-2 N64-33505 24-17

FLIP-FLOP
CF CIRCUIT
FLIP-FLOP DESIGN, PACKAGING, AND PERFORMANCE WITH VARIATIONS OF POWER SUPPLY FOR INTEGRATED MICROPOWER CIRCUITS
NASA-CR-53511 N64-19981 12-09

TRANSISTOR FLIP-FLOP AND RING COUNTER CIRCUITS WITH NONVOLATILE MEMORY
TR-1198 N64-21104 14-09

NEW WAY OF COUPLING TWO COMPLEMENTARY TRANSISTORS IN FLIP-FLOP CIRCUIT
E-T-SLOVAK-64-1 N64-28279 20-09

FLOW
SA AXIAL FLOW
SA AXISYMMETRIC FLOW
SA BLASIUS FLOW
SA BOUNDARY LAYER FLOW
SA CASCADE FLOW
SA CAVITATION FLOW
SA CHANNEL FLOW
SA COMPRESSIBLE FLOW
SA CONVECTIVE FLOW
SA GAS FLOW
SA HARTMANN FLOW
SA HEAT FLOW
SA HYPERSONIC FLOW
SA INCOMPRESSIBLE FLOW
SA INVISCID FLOW
SA JET FLOW
SA KNUDSEN FLOW
SA LAMINAR FLOW
SA LIQUID FLOW
SA MAGNETOHYDRODYNAMIC FLOW
SA MASS FLOW
SA NONEQUILIBRIUM FLOW
SA NOZZLE FLOW
SA ONE-DIMENSIONAL FLOW
SA OXIDE FILM
SA PLASMA FLOW
SA POISEUILLE FLOW
SA SILICON FILM
SA SLIP FLOW
SA STREAM
SA SUBSONIC FLOW
SA SUPERCAVITATING FLOW
SA SUPERSONIC FLOW
SA TWO-DIMENSIONAL FLOW
SA TWO-PHASE FLOW
SA UNSTEADY FLOW
CONVECTION VELOCITIES OF TURBULENT FLUCTUATIONS IN SHEAR FLOW
NPL-AERO-1050 N64-10018 01-11

FLUTTER OF FLAT RECTANGULAR PANELS BASED ON THREE-DIMENSIONAL SUPERSONIC POTENTIAL FLOW
NASA-RP-44 N64-10131 01-02

ADJUSTMENT OF SEPARATED FLOW REGIONS WITH RESPECT TO PRESSURE, MASS, AND HEAT TRANSFER TO TRANSIENT EXTERNAL FLOW N64-10142 01-11

THREE-STAGE REVERSE FLOW REENTRY TURBINE ENGINE
NASA-TN-D-2076 N64-10184 01-02

AVERAGE PRESSURE MEASUREMENT IN PULSATING GAS STREAMS
DFL-209 N64-10234 01-10

STEADY FLOW OF VISCOUS FLUID PAST CIRCULAR CYLINDER AT REYNOLDS NUMBERS 40 AND 44
ARC-R&M-3175 N64-10404 01-11

OIL-BURNING SMOKE PRODUCER FOR FLOW VISUALIZATION IN LOW SPEED WIND TUNNEL
ARL/A-202 N64-10983 02-02

STABILITY OF SUPERPOSED FLUIDS
AD-422616 N64-11025 02-11

DETERMINATION OF RATE OF MASS TRANSFER BETWEEN FLUIDS IN SOLAR FURNACE CHAMBER ORIFICE
JPRS-18756 N64-11213 02-11

MOLECULAR FLOW AND EFFUSION PROCESS IN MEASUREMENT OF VAPOR PRESSURES
ASD-TDR-63-754, PT. 1 N64-11444 03-23

MODEL OF EQUATORIAL FLOW - MOTION OF BANDS OF FLUID WITH CONSTANT VORTICITY - SOLAR ACTIVITY EFFECT N64-11726 03-21

FLUID DYNAMICS, ELECTRONICS, AERODYNAMICS, HYPERSONICS, VERTICAL TAKEOFF, AND SEPARATED FLOW STUDIES N64-11878 03-01

DYNAMICS & STRUCTURE OF CURRENT SHEETS IN COAXIAL PLASMA GUN
NASA-CR-55018 N64-11889 03-24

THERMODYNAMICS OF IRREVERSIBLE PROCESSES APPLIED TO FLOW OF MULTICOMPONENT LIQUID THROUGH POROUS MEDIA N64-11967 03-11

HYDRODYNAMIC THEORY OF HEAT EXCHANGE APPLIED TO TRANSONIC FLOW N64-11969 03-11

FLOW OF RESILIENT-VISCOUS LIQUID IN PIPES OF RING, ROUND, AND SLIT CROSS SECTION N64-11981 03-02

GENERALIZED VISCOUS MULTICOMPONENT-MULTIPHASE FLOW WITH APPLICATION TO LAMINAR & TURBULENT HYDROGEN JETS
AIAA PAPER-63-507 N64-12017 03-11

SMALL PERTURBATION THEORY FOR SHOCK TUBE FLOW ATTENUATION AND NONUNIFORMITY DUE TO WALL BOUNDARY LAYER
TDR-169/3230-12/TN-8 N64-12179 03-11

VISCOUS EFFECT AND HEAT TRANSFER IN SEPARATED FLOW
AFOSR-4712 N64-12180 03-13

EQUATIONS FOR REVERSE YIELDED THICK WALL TUBE WITH PLASTIC FLOW DUE TO INTERNAL PRESSURE
NOLTR-63-123 N64-12306 03-33

MEAN MERIDIONAL CIRCULATION IN SOUTHERN HEMISPHERE
AFCRL-63-763 N64-12616 04-21

APPROXIMATE CALCULATION OF HYPERSONIC CONICAL FLOW PARAMETERS FOR AIR IN THERMODYNAMIC EQUILIBRIUM
NASA-TN-D-2058 N64-12716 04-11

FLUID FLOW IN CURVED DUCTS - CROSS-SECTIONAL SHAPE TO REDUCE ENVIRONMENTAL EFFECTS TO HIGH ENTHALPY FLUIDS
R-77 N64-13021 04-11

FLOW OSCILLATIONS IN CLOSED LOOP SYSTEM WITH TRANSPARENT, PARALLEL, VERTICAL, HEATED CHANNELS
MIT-8973-2 N64-13052 04-11

FRACTIONAL POWERS & SEMIGROUPS OF OPERATORS FOR EXISTENCE THEOREMS OF THREE-DIMENSIONAL FLOWS IN HILBERT SPACE - NAVIER-STOKES EQUATION
TR-121 N64-13082 04-20

EFFECTS OF BODY FORCE & FINITE ELECTRICAL CONDUCTIVITY ON HYDROMAGNETIC STABILITY OF DISCONTINUOUS SHEAR FLOW
RTD-TDR-63-1100 N64-13105 04-24

LAPLACE TRANSFORM FOR SUDDEN START, RELAXATION, & HARMONIC PRESSURE OSCILLATION OF LAMINAR FLUID FLOW IN PIPES
E-T-G-G-63-16 N64-13110 04-11

FORCES ON LOW ASPECT RATIO RECTANGULAR WING OSCILLATING IN SONIC FLOW

ARC-R&M-3339 N64-13358 04-03

FORCES ON CYLINDER IN SHEAR FLOW OF VISCOUS FLUID THROUGH NARROW CHANNEL
ARC-R&M-3343 N64-13386 04-11

SURFACE RECOMBINATION OF DISSOCIATED ATOMS IN CHEMICALLY FROZEN BOUNDARY LAYERS
SSD-TDR-63-285 N64-13610 05-11

FLOW VISUALIZATION MEASUREMENTS MADE ON CONES IN WATER TUNNEL
LR-385 N64-14067 05-11

TABULATION OF BASE FLOW PROPERTIES FOR CONES AND WEDGES
EOS-RN-17 N64-14100 05-02

TRANSMISSION OF HYDRAULIC POWER USING PULSATING FLOW - PISTON TRANSFORMER WITH FLUID REPLENISHMENT UNIT
RAC-933-3 N64-14107 05-11

SOLID PROPELLANT ROCKET NOZZLE INTERNAL FLOW ENVIRONMENT
RTD-TDR-63-1075 N64-14140 05-18

ELECTRODYNAMICS OF HELIUM SUPERFLUID FLOW AND ELECTRIC FIELD INVESTIGATION OF LIQUID AND SOLID HELIUM STRUCTURES
NASA-CR-55303 N64-14277 06-23

ION MOBILITY IN SUPERFLUID HELIUM BY COMPLETE SPACE CHARGE LIMITATION METHOD
LNF-63/79 N64-14453 06-23

CONSTRAINED TURBULENT SHEAR FLOWS OF NEWTONIAN FLUID SOLVENTS WITH POLYMER SOLUTES - ELASTIC VISCOUS FLUIDS
AIAA PAPER-64-36 N64-14656 06-11

DIRECT-INTERACTION APPROXIMATION FOR TURBULENCE EXTENDED TO SHEAR FLOWS AND BOUSSINESQ CONVECTION CONTAINED IN REGIONS OF ARBITRARY SIZE AND SHAPE
RR-2 N64-14706 06-11

DIGITAL COMPUTER SOLUTION OF CONDENSATION IN HIGHLY EXPANDED FLOWS
ARL-63-206 N64-14769 06-20

EFFECT OF INTERCHANGING PROPELLANTS IN COAXIAL INJECTION ON ROCKET COMBUSTOR PERFORMANCE
NASA-TN-D-2169 N64-14986 06-27

MAGNITUDE OF FLOW FIELDS DIRECTLY BEHIND OR NEAR FORKLIKE SHOCKS IN NEAR-SONIC RANGE
DVL-294 N64-15028 07-11

FORMULAS FOR SPATIAL DISTRIBUTION OF MOLECULES AND JET FORMATION IN FLOW THROUGH SHORT TUBE
RSIC-114 N64-15124 07-23

TURBULENT AIR-BROMINE COAXIAL-FLOW DIFFUSION
NASA-TN-D-2121 N64-15161 07-11

DISTRIBUTION OF LIQUID DROPLET MASS VELOCITY AND LOCAL LINEAR VELOCITY FOR GAS CORE IN AIR-WATER ANNULAR FLOWS
AERE-R-3955 N64-15225 07-11

COMPARISON OF STABILITY OF POISEUILLE FLOW AND BLASIUS PROFILE FOR FLEXIBLE WALLS
DI-82-0264 N64-15299 07-11

MOLECULAR FLOW IN ELECTRON BOMBARDMENT ION CHAMBER AND ANALYSIS OF SPACE CHARGE FLOW IN ION ACCELERATION
AIAA PAPER-64-7 N64-15303 07-27

TRANSONIC FLOW ABOUT BLUNT-NOSED BODY WITH REAR SKIRT N64-15644 07-02

DISCHARGE COEFFICIENTS OF ORIFICE FLOW OF LIQUID HYDROGEN AND NITROGEN INTO VACUUM
NASA-CR-55329 N64-15880 07-11

TWO-DIMENSIONAL GRAY-GAS RADIANT HEAT TRANSFER IN COAXIAL-FLOW GASEOUS REACTOR
NASA-TN-D-2124 N64-15909 07-13

BASE FLOW CLOSURE ANGLE DATA FROM PHOTOGRAPHS OF POINTED CONES IN FREE FLIGHT
EOS-RN-21 N64-15958 07-02

MOTION PICTURE STUDY OF BOILING FLOW IN VERTICAL, RECTANGULAR CHANNEL AT ATMOSPHERIC PRESSURE
NYO-9650 N64-16024 07-13

OSCILLATIONS OF TURBULENT FLOW
ATN-64/9231/-1 N64-16097 07-11

AERODYNAMICS OF OSCILLATING CASCADE FLOW
DVL-248 N64-16204 08-03

SEMINAR ON MOLECULAR FLOW, GAS DYNAMICS, RADIATION AND SHOCK LAYERS, AND LAMINAR AND TURBULENT BOUNDARY LAYERS N64-16213 08-13

BEHAVIOR OF SMALL OSCILLATIONS SUPERPOSED ON VISCOUS FLUID FLOW
FTD-TT-62-1597/1&2&3&4 N64-16403 08-11

COOLING OF HIGH TEMPERATURE, RADIAL-FLOW TURBINES
K-518 N64-16508 08-13

SOUND PRODUCTION AND FLOW INSTABILITY AS CHARACTERISTICS OF COMPRESSIBLE FLUID FLOW
AGARD-466 N64-16540 08-23

MIXING OF COAXIAL STREAMS OF DISSIMILAR FLUIDS INCLUDING ENERGY-GENERATION TERMS - NUMERICAL SOLUTION, LARGE VARIATION IN FLOW VARIABLES
NASA-TN-D-2123 N64-16915 09-11

THEORY FOR CONICAL FLOW ON SLENDER DELTA WINGS WITH LEADING EDGE BLOWING
COA-AERO-169 N64-16920 09-03

DRAG COEFFICIENT DETERMINATION FOR TWO-DIMENSIONAL STRIP NORMAL TO HYPERSONIC NEARLY FREE-MOLECULE FLOW
AS-64-4 N64-16969 09-23

PLOTS OF TURBULENT REYNOLDS NUMBER VALUES FOR CURVED MIXING LAYER FLOWS
AROD-4491-1 N64-16989 09-11

EQUILIBRIUM SONIC FLOW METHOD OF EVALUATING ELECTRIC ARC AIR HEATER PERFORMANCE
NASA-TN-D-2132 N64-17154 09-24

IDEAL-GAS TABLES FOR OBLIQUE-SHOCK FLOW PARAMETERS IN AIR AT MACH NUMBERS FROM 1.05 TO 12.0
NASA-TN-D-2221 N64-17180 09-11

FLUID FLOW IN GAS TURBINE AND IN AXIAL COMPRESSOR
FTD-TT-63-81/1&2 N64-17173 09-01

CALCULATION OF RADIAL FLOWS IN GAS TURBINE STAGE N64-17174 09-13

PRESSURE AND TEMPERATURE MEASUREMENT FOR SUDDEN EXPANSION OF PLANE OR AXISYMMETRIC, SONIC OR SUPERSONIC FLOW N64-17185 09-11

CONVERSION OF THREE-PHASE POWER TO SINGLE-PHASE POWER - ELECTRICITY N64-17433 09-09

EFFECT OF SOLID & JET SPOILERS ON FLAT PLATES IN TRANSONIC TANGENTIAL FLOW
NASA-CR-53257 N64-17493 09-03

AERODYNAMICS AND GASDYNAMICS OF FLOWS AT SUPERSONIC AND HYPERSONIC SPEEDS
AID-B-64-3 N64-17519 09-11

INJECTION OF FOREIGN GAS INTO LAMINAR AIR BOUNDARY LAYER - HEAT AND MASS TRANSFER PROBLEMS SOLVED BY SIMPLE CALCULATION METHOD OF SIMILARITY EQUATIONS
NASA-TM-X-54519 N64-17605 09-11

TURBULENT SHEAR FLOW OF REAL VISCOELASTIC FLUIDS
NASA-CR-53319 N64-17792 09-11

SECONDARY FLOWS IN JET DRIVEN VORTEX CHAMBERS
ATN-64/9227/-1 N64-18046 10-11

HIGH VELOCITY RATIO NEAR FREE MOLECULAR FLOW PAST NARROW STRIP - KINETIC EQUATIONS
R63SD81 N64-18076 10-02

DIGITAL COMPUTER PROGRAM FOR ANALYZING SUPERSONIC POTENTIAL FLOW IN DUCTS WITH UNIFORM INLET CONDITIONS
ARC-CP-649 N64-18155 10-02

CALCULATING AXIAL POSITIONS AND SIZE OF MACH DISKS AND MIXED FLOWS DOWNSTREAM OF DISKS IN UNDER-EXPANDED, INVISCID JETS
GD/A-DBE-64-008 N64-18358 10-02

EXACT SOLUTION TO NONLINEAR EQUATIONS OF LAMINAR FLOW FOR VISCOUS INCOMPRESSIBLE FLUIDS IN ENTRANCE REGION OF ANNULAR PIPES
NRC-477 N64-18378 10-11

ANNULAR SLUG FLOW REGIME INVESTIGATED IN VERTICAL UPFLOW WITHOUT HEATING BY USING ELECTRICAL CONDUCTIVITY PROBE
ANL-6796 N64-18510 10-13

CONVECTION VELOCITIES IN TURBULENT SHEAR FLOWS
AGARD-457 N64-18723 11-11

FLOW DISTORTION OF ULTRASONIC WAVES OF FINITE AMPLITUDE IN SOLIDS
FTD-MT-63-13/1&2&364 N64-18745 11-23

INTENSIFICATION OF ANNULAR VORTEX FOR BROADENING REGION OF STABLE WORK IN AXIAL COMPRESSORS
FTD-MT-63-33/1&2 N64-18749 11-06

TRANSPIRATION, EFFUSION, AND MOLECULAR FLOW STUDIES OF THERMODYNAMIC PROPERTIES OF BERYLLIUM COMPOUNDS N64-18813 11-13

NONSTEADY AND NONEQUILIBRIUM TWO-PHASE FLOWS - SQUID PROJECT N64-18852 11-11

DYNAMICS OF PLASTIC FLOW OF SAPPHIRE IN TENSION AND COMPRESSION
ATN-64/9236/-15 N64-19481 12-19

FLOW VISUALIZATION TECHNIQUES FOR WIND TUNNELS - BIBLIOGRAPHY
AGARDOGRAPH-70 N64-19716 12-11

RESISTANCE TO FLOW THROUGH SMOOTH ECCENTRIC AND CONCENTRIC ANNULI IN TURBULENT FLOW REGIME
ASME PAPER 63-WA-11 N64-19968 12-11

MULTICOMPONENT MULTIPHASE VISCOUS FLOW WITH APPLICATIONS TO LAMINAR AND TURBULENT JETS OF HYDROGEN
NASA-CR-53509 N64-19985 12-11

TURBULENCE GENERATION IN PULSATING VISCOUS FLOW
NU-HYDRO-012-TS N64-20304 13-11

SIMPLIFIED KINETIC THEORY OF COUETTE AND RAYLEIGH FLOW
REPT.-9813-6001-RU000 N64-20652 13-11

DUAL DUCT SYSTEMS IN SUPERSONIC FLOW
TP-32/1963/ N64-21001 14-02

CRACK PROPAGATION RATES AND PLASTIC FLOW IN THEORY OF FRACTURE MECHANICS
RTD-TDR-63-3102 N64-21395 14-19

THERMAL CONDUCTIVITY OF URANIUM DIOXIDE AND ARMCO IRON BY AN IMPROVED RADIAL HEAT FLOW TECHNIQUE
ORNL-3556 N64-21483 14-13

FLOW IN WAKE OF HYPERSONIC VEHICLES
RAD-TR-63-33, REV. 1 N64-21557 15-11

TURBULENT BASE FLOW BEHIND SLENDER SUPERSONIC REENTRY VEHICLES
DOC.-63SD849 N64-21566 15-02

FACTORS AFFECTING FLOW AND DISPERSION OF FINELY DIVIDED ORGANIC POWDERS
REPT.-2381 N64-21579 15-23

OBSERVATIONS OF AURORAL PULSATIONS
N64-21894 15-12

WING-FUSELAGE INTERFERENCE IN HIGH ORDER CONICAL FLOW
FTD-TT-63-391/1&2&364 N64-21948 15-03

MEAN VELOCITY GRADIENT EFFECTS ON REDISTRIBUTION OF TURBULENT ENERGY IN WEAK SHEAR FLOW
NASA-RP-194 N64-22087 15-11

FORMULAS FOR SUPERPOSITION OF ORDINARY STEADY FLOWS WITH LIMITED AFTEREFFECT
FTD-TT-62-1383/1&2&4 N64-22164 15-11

LAMINAR BOUNDARY LAYER WITH HYDROGEN INJECTION - MULTICOMPONENT DIFFUSION AND TRANSPORT PROPERTIES
ARL-64-40 N64-22300 15-11

TURBULENT MIXING OF COAXIAL FLOWS IN CHANNEL OF CONSTANT CROSS-SECTION
FTD-TT-63-1139/1&2&4 N64-22364 15-11

ROTATING FLOWS OVER ROTATING DISKS
NWL-1913 N64-22543 15-11

INFORMATION PROCESSOR FOR PATTERN RECOGNITION USING COMPUTER FLOW CHARTS
SRC-30-1-63-1 N64-22563 15-08

SHOCK TUBE FOR PRODUCING SUBSONIC, TRANSONIC AND SUPERSONIC FLOWS FOR AERODYNAMIC TESTING
SSD-TDR-63-32 N64-22620 15-10

NAVIER-STOKES EQUATIONS FOR STEADY FLOW MOTION OF VISCOUS INCOMPRESSIBLE FLUIDS AROUND CONICAL SURFACES
NWL-1922 N64-22707 15-11

FLOW AROUND PROFILE IN SUBSONIC STREAM WITH LOCAL SUPERSONIC REGION TERMINATED BY COMPRESSION SHOCK
N64-23078 16-11

EFFECTS OF GAS STRATIFICATION ON CHOKED NOZZLE FLOW
AIAA PAPER-64-266 N64-23612 16-11

STAGNATION REGIONS WITH REVERSED FLOW - CONE ANGLE
N64-23680 16-11

TURBULENT BOUNDARY LAYER FOR FROZEN FLOW
NASA-CR-56367 N64-24118 16-11

TWO-DIMENSIONAL BASE FLOW AT SUBSONIC AND TRANSONIC SPEEDS
NPL-AERO-1070 N64-24955 17-11

EFFECT OF HIGH PRESSURE ON FLOW IN REFLECTED SHOCK TUNNEL
NPL-AERO-1072 N64-25174 17-10

SPREADING RATES OF COMPRESSIBLE TWO-DIMENSIONAL REATTACHING JET FLOWS FOR VELOCITY PROFILE IN FLUID AMPLIFIERS N64-25257 17-11

DEFLECTION AND RELATIVE FLOW OF THREE INTERACTING JETS FOR FLUID AMPLIFIER STUDY N64-25261 17-11

WALL REATTACHMENT FLUID AMPLIFIER WITH PULSED CONTROL FLOW N64-25264 17-11

BOUNDARY LAYER-SHOCK WAVE INTERACTIONS IN

SUPERSONIC SEPARATED FLOW AND REATTACHED LAMINAR FLOW
TR-3 N64-25354 17-11

ENCLOSED ROTATING DISKS WITH RADIAL OUTWARD THROUGHFLOW SUPERPOSED ON INDUCED FLUID MOTION
R-64-16 N64-25397 17-11

THREE-DIMENSIONAL FLOW DISTURBANCES IN TWO-DIMENSIONAL INCOMPRESSIBLE TURBULENT BOUNDARY LAYER
ARC-R&M-3368 N64-25870 18-02

HYDRAULIC POWER TRANSMISSION BY PULSATING FLOW OR PRESSURE - COMPONENT DESIGN AND ANALOG COMPUTER PROGRAM
RAC-933-5 N64-25924 18-11

JET FORMATION AND ANGLES OF DEFLECTION RESEARCH - NOZZLE FLOW N64-26031 18-11

HYPERSONIC FLOW FIELD CALCULATIONS - THREE DIMENSIONAL AND REAL GAS FLOWS N64-26134 18-02

PLASMA IN HIGH TEMPERATURE FLOW SURROUNDING HYPERSONIC PROJECTILE IN FLIGHT
N64-26146 18-24

EFFECT OF CATALYTIC SURFACES ON STAGNATION POINT HEAT TRANSFER IN PARTIALLY DISSOCIATED FLOWS
N64-26159 18-13

INFLUENCE OF CHEMICAL REACTIONS ON FLOW
N64-26327 18-11

TRANSONIC ASPECTS OF HYPERVELOCITY ROCKET PLUMES
N64-26333 18-11

ANALYSIS OF PRESSURE AND FLOW PERTURBATIONS PRODUCED IN PROPELLANT FEED SYSTEMS
NASA-TN-D-2409 N64-26777 18-11

PRESSURE LOSSES IN VENTILATION DUCTS DUE TO BUILT-IN BARS, GRATINGS, AND GRIDS
RSIC-211 N64-26829 18-11

THEORY & TECHNIQUES FOR CALCULATING SUPERSONIC NONVISCOUS FLOW N64-27210 19-11

EFFECT OF NUCLEATION OF SLIP SURFACE ON FLOW AND FRACTURE OF BERYLLIUM
NASA-CR-56314 N64-27393 19-18

MINERALOGY - REMANENT MAGNETIZATION OF ANOMALOUS AND STABLE LAVA FLOWS
AFCRL-64-97/1/ N64-27440 19-12

SEPARATED FLOW IN CURVED CHANNELS WITH SECONDARY INJECTION
ARD-TR-020-01 N64-27536 19-02

FLOW VISUALIZATION STUDIES NEAR MACH DISC IN UNDEREXPANDED, INVISCID JETS
GDA-DBE-64-041 N64-27565 19-11

TRANSONIC FLOW ON TWO-DIMENSIONAL WINGS - AERODYNAMIC CHARACTERISTICS N64-27782 19-03

HYDROLYSIS OF ORGANOCHLOROSILANES IN CONTINUOUS COUNTERFLOW SPRAY COLUMN
FTD-TT-64-132/1&2&4 N64-27842 19-07

TRANSONIC GAS FLOW THEORY - NEW VARIABLES FOR CHAPLYGIN EQUATIONS FOR FLOW IN NOZZLES
N64-27978 20-02

CALIBRATION OF CONE TO MEASURE MACH NUMBER, TOTAL PRESSURE, AND FLOW ANGLES AT SUPERSONIC SPEEDS
ARC-CP-628 N64-28070 20-02

ANALYSIS OF PLASTIC WAVE PROPAGATION IN A FINITE LENGTH BAR IN HIGH VELOCITY TENSION - IMPACT LOAD
N64-28101 20-33

OSCILLATIONS OF GAS WITHIN ENCLOSED DUCT
N64-28473 20-11

NONLINEAR ACOUSTIC OSCILLATIONS OF GAS COLUMN WITHIN ENCLOSED DUCT N64-28474 20-11

FLOW PAST HYDRODYNAMIC FEATURE ON BOUNDARY OF TWO FLUIDS OF DIFFERENT DENSITIES
N64-28476 20-11

REVERSIBILITY OF STABILIZED MOTION OF ANNULAR WING AND COAXIAL INFINITE CYLINDER
N64-28486 20-03

AXISYMMETRIC POTENTIAL FLOW THROUGH SHROUDED IMPULSE DISK IN STATIC CASE - SLIPSTREAM CONTRACTION
DTMB-1857 N64-28525 20-11

TURBULENT TRANSPORT PROPERTIES FOR AXISYMMETRIC HETEROGENEOUS MIXING OF TWO COAXIAL FLOWS
ARL-64-103 N64-28551 20-11

BOUNDARY LAYER PARAMETER IN HIGH SPEED FLOW WITH VARIABLE FLUID PROPERTIES
ARL-64-119 N64-28598 20-11

FIRE AND EXPLOSION HAZARDS OF FLIGHT VEHICLE COMBUSTIBLES
ASD-TR-61-278, SUPPL. 3 N64-28608 20-24

PULSATING MAGNETOHYDRODYNAMIC FLOW SUPERPOSED ON STEADY LAMINAR FLOW OF INCOMPRESSIBLE VISCOUS FLUID IN ANNULAR CHANNEL
MRC-379 N64-29030 21-24

STEADY FLOW ACCELERATOR FOR WIND TUNNELS
N64-29124 21-24

BINARY COUETTE FLOW WITH HYDROGEN INJECTED INTO CARBON DIOXIDE AND NITROGEN STREAMS FOR REENTRY COOLING SYSTEM
NASA-CR-58497 N64-29200 21-11

GRAVITY WAVE PROPAGATION DUE TO TWO-DIMENSIONAL POINT DISTURBANCE IN SURFACE FLOW OF STRATIFIED FLUID
REPT.-97-5 N64-29318 21-11

RADIAL HEAT FLOW APPARATUS FOR HIGH TEMPERATURE THERMOCONDUCTIVITY MEASUREMENTS
GEMP-296 N64-29391 21-15

FLOW EFFECTS ON AERODYNAMIC CHARACTERISTICS OF SEVERAL CONFIGURATIONS OF CONICAL CONTOURED NOZZLES AT HYPERSONIC SPEED
NASA-TN-D-2489 N64-29496 21-02

FLOW OF ELECTRICALLY CONDUCTING FLUID IN PLANE CHANNEL
NASA-TT-F-241 N64-29499 21-24

TRANSIENT MAGNETOHYDRODYNAMIC FLOW IN ANNULAR CHANNELS
MRC-381 N64-29912 21-24

NUMERICAL SOLUTION FOR TWO- AND THREE-DIMENSIONAL FLOW OF NONEQUILIBRIUM GAS
AFOSR-64-1055 N64-30008 21-11

TURBULENT MIXING OF SECONDARY FLOWS IN CHANNEL OF CONSTANT CROSS-SECTION
TIL/T-5411 N64-30071 21-11

CALCULATION OF NONLINEAR SUPERSONIC CONICAL FLOWS USING INTEGRAL RELATIONS METHOD
FDL-TDR-64-7 N64-30125 21-11

HALL EFFECT IN RAYLEIGH PROBLEM FOR IONIZED GAS AT LOW SPEEDS - MAGNETOHYDRODYNAMICS
N64-30375 22-24

APPROXIMATE ANALYSIS OF SELF-PROPELLED VEHICLE IN TUBE WITH VARIOUS TUBE-END CONDITIONS TO DETERMINE INDUCED FLOW VELOCITIES
TR-AE-6204 N64-30402 22-02

FLOW PROCESSES IN MAGNETOPLASMADYNAMIC GENERATORS
N64-30445 22-24

FRICTION RESISTANCE OF FLAT PLATE AT ZERO ANGLE OF ATTACK IN REGION BETWEEN CONTINUUM AND FREE MOLECULAR FLOW
FTD-MT-63-83/1&2&3&4 N64-30542 22-17

CIRCULAR COUETTE FLOW TRANSITION BETWEEN CONCENTRIC ROTATING CYLINDERS
AD-603095 N64-30881 22-11

MATERIAL CAVITATION BY CONTINUOUS OSCILLATION WITH MAGNETOSTRICTIVE TRANSDUCER IN CAVITATING LIQUID OF VARIOUS TEMPERATURES
REPT.-85-27 N64-30915 22-18

NUMERICAL METHOD FOR SOLUTION OF LINEARIZED BOLTZMANN EQUATION FOR HARD SPHERE MOLECULES WITH APPLICATION TO COUETTE FLOW
R64SD53 N64-30956 22-11

FLOW VISUALIZATION IN HYPERSONIC WIND TUNNELS
AEDC-TDR-64-108 N64-31046 22-10

NOZZLE PROFILE CALCULATION WITH GIVEN VELOCITY DISTRIBUTION ALONG NOZZLE AXIS - AXISYMMETRIC FLOW
REPT.-143 N64-31432 23-11

FLOW RESISTANCE OF SHIP HULLS
R-834 N64-31712 23-34

VELOCITY MEASUREMENT OF FLOWING PLASMA BASED ON INDUCED POLARIZATION VOLTAGE WHEN PLASMA FLOW IS TRANVERSE TO APPLIED MAGNETIC FIELD
RR-TR-64-7 N64-32032 23-24

FRESH, AGED, GROWN-IN, AND HIGH TEMPERATURE DISLOCATIONS IN INITIATION OF PLASTIC FLOW IN MAGNESIUM OXIDE SINGLE CRYSTALS
TR-24 N64-32061 23-25

VISCO-PLASTIC FLOW IN INFINITE PLATE UPON IMPACT WITH CYLINDER
AD-602179 N64-32065 23-33

LAMINAR BASE FLOW BEHIND CONICAL REENTRY BODIES
TN-R-110 N64-32176 23-11

ONE-DIMENSIONAL UNSTEADY POTENTIAL FLOW IN MAGNETOGASDYNAMICS N64-32341 23-24

AVERAGE MASS FLOW VELOCITY MEASUREMENTS IN THIN RECTANGULAR CHANNELS USING SINGLE FIXED TOTAL-PRESSURE PROBE WITH FIXED STATIC PRESSURE PROBE
NASA-TN-D-2212 N64-32405 23-11

FLOW VISUALIZATION TECHNIQUES FOR FLIGHT TESTS
TRECOM-TR-64-39 N64-32447 23-04

MAGNETOGASDYNAMIC EFFECTS IN FLOW BEHIND SPHERE
BSD-TDR-64-107 N64-32665 23-24

SECOND-ORDER FORCES AND PRESSURE DISTRIBUTIONS ON THREE-DIMENSIONAL BODIES BY REVERSE-FLOW INTEGRAL METHOD
CR-12 N64-32814 24-02

DYNAMICAL THEORY OF INTERACTING CONTINUA DEVELOPED FROM ENERGY EQUATION
AM-64-13 N64-33472 24-11

ANALOG VERIFICATION OF SMALL PERTURBATIONS LINEAR THEORY, PROFILE OF HYDRODYNAMIC CHARACTERISTICS, AND TANDEM PROBLEM FOR ANALOG STUDY OF HYDROFOILS NEAR FREE SURFACE
AD-602430 N64-33501 24-11

JET NOISE GENERATION AND SUPPRESSION RELATING TO MEAN FLOW VELOCITY DISTRIBUTION IN JET WAKE
AD-446344 N64-33593 24-23

FLOW OF SUPERFLUID HELIUM - DAMPING OF SOLIDS OSCILLATING IN VISCOUS FLUID
QPR-6 N64-33660 24-11

LEGENDRE TRANSFORM FOR POTENTIAL PLASMA FLOW EQUATION
SR-7 N64-33663 24-24

EFFECT OF CHEMICAL REACTIONS ON FLOW AND CATALYTIC ACTIVITY ON REACTION TIMES
ONERA-TP-10/1963/ N64-33739 24-11

TRANSMISSION AND UTILIZATION OF HYDRAULIC POWER THROUGH USE OF PULSATING PRESSURE OR FLOW
APL-TDR-64-109 N64-33928 24-17

FLOW CHARACTERISTICS
MACH NUMBER DISTRIBUTION AND FLOW ANGLE VARIATION IN WORKING SECTION OF S1 SUPERSONIC WIND TUNNEL
HSA-75 N64-11283 02-02

FLOW PARAMETERS IN SIX DEGREE CONICAL DIFFUSERS N64-11875 03-02

MASS & ENERGY TRANSFER, FLOW CHARACTERISTICS, KINETICS OF VARIOUS SYSTEMS, AND STATE EQUATIONS FOR HELIUM AND OXYGEN
JPRS-22321 N64-11965 03-01

FLOW OF RESILIENT-VISCOUS LIQUID IN PIPES OF RING, ROUND, AND SLIT CROSS SECTION N64-11981 03-02

FLOW PHENOMENA INVOLVED IN GASEOUS THRUST DIRECTION CONTROL DEVICES N64-15632 07-11

FLOW CHARACTERISTICS OF SOLAR WIND IN MAGNETO-SPHERIC CAVITY
AVCO-EVERETT RES. REPT.-170 N64-15938 07-12

POSSIBLE TYPES OF FLOW WITH CONSTANT PRESSURE BEHIND SHOCK WAVE FRONT IN AIR SHOCK TUBES
FTD-TT-63-309/16264 N64-19197 11-11

HEAT TRANSFER AND FLOW STUDIES OF LIQUID METAL BOILING
REPT. 05750-9-P N64-19732 12-13

SENSITIVITY ANALYSIS ON MAXIMUM-FLOW NETWORKS
ORC-64-5/RR/ N64-19774 12-20

FLOW CHARACTERISTICS OF THERMALLY PERFECT CARBON DIOXIDE AND NITROGEN MIXTURES - TABLES
NASA-SP-3009 N64-19997 12-11

FLOW AND HEAT TRANSFER PROPERTIES OF BUBBLE STREAM MOTION IN LIQUID CORE NUCLEAR ROCKET
NASA-CR-56229 N64-24160 16-11

BASIC FLOW PHENOMENA ASSOCIATED WITH AEROTHERMAL KILL MECHANISM
AD-438860 N64-25698 17-11

SUPERSONIC FLOW AROUND BLUNT BODIES IN GAS IN THERMODYNAMIC EQUILIBRIUM
NASA-TR-R-204 N64-25812 17-02

HEAT TRANSFER AND FLOW DATA OF CRYOGENIC HYDROGEN FOR NUCLEAR ROCKET PROPELLANT FEED AND REACTOR SYSTEMS N64-26019 18-13

HIGH TEMPERATURE ASPECTS OF HYPERSONIC FLOW
AGARDOGRAPH-68 N64-26126 18-01

FLOW CHARACTERISTICS AND DRAG DUE TO SUPERSONIC JETS DISCHARGING UPSTREAM INTO SUPERSONIC FLOW
AD-603354 N64-30661 22-11

CONVECTIVE HEAT TRANSFER AND FLOW FRICTION CHARACTERISTICS OF SKEWED PASSAGE AND GLASS-CERAMIC COMPACT HEAT EXCHANGER SURFACES FOR GAS TURBINE REGENERATOR DESIGN
TR-59 N64-30919 22-13

FLOW DISTRIBUTION
INTEGRAL EQUATIONS FOR FLOW AND VORTEX DISTRIBUTIONS IN PROPELLER-TYPE JET NOZZLES
DVL-277 N64-24060 16-11

FLOW EQUATION
GENERAL PROPERTIES OF FLOW EQUATIONS FOR RELAXING MEDIA
RAE-TRANS-1047 N64-14239 06-11

ITERATIVE SOLUTION OF INVISCID FLOW FIELD ABOUT SUPERSONIC AXISYMMETRIC BLUNT BODY - FLOW EQUATIONS
R-72 N64-18699 11-02

EQUATION RELATING THREE VELOCITIES OF GAS FLOW IN

SHOCK TUNNEL N64-23683 16-11

SOLUTION OF FLOW EQUATIONS IN MAGNETOPLASMADYNAMIC GENERATORS
IRD-63-82 N64-31140 22-24

FLOW FIELD
ADJUSTMENT OF SEPARATED FLOW REGIONS WITH RESPECT TO PRESSURE, MASS, AND HEAT TRANSFER TO TRANSIENT EXTERNAL FLOW N64-10142 01-11

IONIZED FLOW FIELD ABOUT HEMISPHERE CYLINDER AND EFFECT ON RADIATION PATTERN OF SLOT ANTENNA
AFCRL-63-339 N64-12195 03-09

FLOW FIELD BENEATH TWO-DIMENSIONAL GROUND EFFECT MACHINE, & IN VICINITY OF PERIPHERAL JETS FOR VARIOUS NOZZLE HEIGHTS
TRECOM-TR-63-61 N64-13303 04-03

MAGNITUDE OF FLOW FIELDS DIRECTLY BEHIND OR NEAR FORKLIKE SHOCKS IN NEAR-SONIC RANGE
DVL-294 N64-15028 07-11

PERTURBATION ANALYSIS OF STATIONARY FLOW FIELD OF OBJECT MOVING IN VISCOUS, INCOMPRESSIBLE FLUID
NASA-CR-53055 N64-15784 07-11

FLOW FIELD ABOUT HEMISPHERE-CYLINDER BODY AT HYPERSONIC SPEED
FFA-92 N64-16975 09-02

INVISCID REACTING FLOW FIELD ABOUT AXIALLY SYMMETRIC BODY SHAPE AT HYPERSONIC FLOW
R63SD90 N64-16982 09-38

LIFT DISTRIBUTION ON WINGS IN UNBOUNDED FLOW FIELD NEAR GROUND - AERODYNAMIC CHARACTERISTICS
RAE-TRANS-1054 N64-17249 09-03

NUMERICAL ANALYSIS OF INTERACTION BETWEEN STIFF EQUATION AND SEVERAL INTEGRATION PROCEDURES
SSD-TDR-63-380 N64-17313 09-20

FEASIBILITY STUDY OF NUCLEAR BLAST SIMULATOR FOR PRODUCTION OF TRANSIENT FLOW FIELD ASSOCIATED WITH NUCLEAR DETONATIONS
IITRI-6035, VOL. 1, FINAL N64-17478 09-10

HALL POTENTIALS AND FLOW FIELD PERTURBATIONS IN MAGNETOGASDYNAMIC FLOW OF AXISYMMETRIC FREE JET
AS-64-1 N64-17527 09-24

FLOW FIELD OF COMPRESSIBLE PLASMA OVER BIASED BODY
AD-434731 N64-18313 10-24

REAL GAS FLOW FIELD AROUND BLUNT BODIES - DATA TABLES
RF-TR-63-18 N64-18591 11-02

VELOCITY OF FLOW FIELD ABOUT ELLIPSOID OF REVOLUTION AT ANGLE OF ATTACK OF SIX DEGREES
AD-436094 N64-20120 13-02

RATES OF CHEMICAL REACTIONS AND DISSIPATION OF CHEMICAL SPECIES IN TURBULENT FLOW FIELDS WITH LARGE INHOMOGENEITIES
BSD-TDR-64-59 N64-20864 14-07

FLOW FIELD OF BLUNT-NOSED SLENDER BODIES AT ARBITRARY ANGLES OF YAW
TN-R-85 N64-21555 15-02

NUMERICAL PROCEDURE FOR SOLVING NAVIER-STOKES EQUATION AND APPLICATION TO ONE-DIMENSIONAL FLOW FIELD IN SUPERSONIC NOZZLE WITH NORMAL SHOCK WAVE
REPT.-63SD891 N64-21567 15-20

FLUID MECHANICS - CAVITY PRODUCTION AND FLOW FIELD DUE TO CAVITATING HYDROFOIL UNDER FREE SURFACE
TR-001-12 N64-22535 15-11

FLOW SPECTRUM IN TRANSVERSE CROSS SECTIONS
FTD-TT-62-1739/1&2&4 N64-22633 15-11

INVISCID SUPERSONIC FLOW FIELDS AROUND TWO-DIMENSIONAL AND AXISYMMETRIC BODIES AT ZERO ANGLE OF ATTACK
D2-10598 N64-23382 16-11

THEORETICAL PREDICTION OF EQUILIBRIUM REAL GAS INVISCID FLOW FIELDS ABOUT BLUNT BODIES
NASA-CR-52876 N64-23394 16-02

VISIBLE RADIATION AND NONEQUILIBRIUM FLOW FIELD AROUND VEHICLE IN REENTRY TRAJECTORY
NASA-CR-56626 N64-24025 16-02

SUPERSONIC FLOW AROUND RIGHT CIRCULAR CONES AT SMALL ANGLES OF ATTACK
NASA-SP-3007 N64-25017 17-02

INTEGRAL METHOD FOR ANALYZING FLOW FIELD OF CURVED SHOCK ABOUT BLUNT BODY
TDR-269/4560-10/-3 N64-25248 17-11

FLOW FIELD CHARACTERISTICS IN BISTABLE FLUID AMPLIFIER MODEL N64-25272 17-11

FLOW AND INTERFERENCE EFFECTS OF BODY OF REVOLUTION AND ITS STABILIZING SURFACES
TM-510-2481-03 N64-25674 17-02

PARAMETRIC STUDY OF HYPERSONIC FLOW FIELDS ABOUT BLUNT-NOSED CYLINDERS AT ZERO ANGLE OF ATTACK
NASA-TN-D-2342 N64-25711 17-02

HYPERSONIC FLOW FIELD CALCULATIONS - THREE DIMENSIONAL AND REAL GAS FLOWS N64-26134 18-02

NEW METHODS FOR SOLUTION OF NONEQUILIBRIUM FLOWS N64-26136 18-11

AIR RADIATION MEASUREMENT FROM FLOW FIELDS OF HIGH SPEED BODIES N64-26155 18-13

JET EXHAUST FLOW FIELDS AND IMPINGEMENT ON SIMULATED LUNAR SURFACE
NASA-RP-242 N64-26404 18-24

STRETCHED ELASTIC SHEET ANALOG TO MAGNETIC FIELD FOR STUDY OF MAGNETOGASDYNAMIC FLOW
AD-437750 N64-26681 18-24

FIELD STRUCTURE INSIDE PLASMA LAYER WITH ZERO PERMITTIVITY N64-27167 19-24

TWO-DIMENSIONAL SPECTRAL ANALYSIS OF KINETIC ENERGY OF FLOW FIELDS
AFCRL-64-248 N64-27453 19-23

APPROXIMATE METHOD FOR CALCULATING FAR FLOW FIELD PROPERTIES OF ROCKET EXHAUSTING INTO VACUUM
U-2630 N64-28013 20-11

VISIOPLASTICITY TECHNIQUES - ROLLING, FLOW FIELD DETERMINATION, AND STRUCTURE OF DEFORMED MATERIALS
PR-1 N64-28148 20-18

JET IMPINGEMENT FORCES ON CYLINDER IN EXHAUST FLOW OF CONICAL NOZZLE ISSUING INTO VACUUM ENVIRONMENT
U-2634 N64-28960 20-11

INFRARED EMISSION FROM HYPERSONIC AIR FLOWS AND REENTRY FLOW FIELD ANALYSIS
CAL-QM-1626-A-15 N64-29649 21-11

PRESSURE DISTRIBUTION AROUND CYLINDER SIMULATING HIGH SPEED VEHICLE WITHIN TUBE
TR-AE-6402 N64-30404 22-02

LINEARIZED TWO-DIMENSIONAL ANALYSIS OF FLOW FIELD INDUCED BY DISTURBANCE TRAVELING IN TUBE N64-30409 22-02

NONEQUILIBRIUM RADIATION FROM STAGNATION REGION OF HYPERVELOCITY PROJECTILES IN FREE FLIGHT
TR-64-02G N64-31115 22-11

TRACER-SPARK TECHNIQUE FOR STUDY OF HYPERVELOCITY FLOW FIELDS
SUDAER-190 N64-32969 24-10

FLOW MEASUREMENT
HIGH SPEED FLOW IN LOW-DENSITY, HYPERSONIC WIND TUNNELS WITH PLASMA GENERATORS
AEDC-TDR-63-241 N64-11440 03-24

HEATED FILM THERMOANEMOMETER FOR LIQUID FLOW RATE

MEASUREMENT
FTD-TT-63-482/1&2 N64-16371 08-11

FLOW TABLES FOR AIR PASSING AN ABRUPT AREA INCREASE OBLIQUE TO FLOW DIRECTION
ARL-64-10 N64-16797 08-11

SHEAR ZONES AND FLOW MEASUREMENTS OF GLACIERS
CRREL-93 N64-21024 14-12

FLOW METER
ELECTROMAGNETIC INDUCTION FLOW METER FOR LIQUID HYDROGEN
NASA-CR-56128 N64-20708 13-15

DESIGN MODIFICATION OF GASEOUS OXYGEN FLOWMETER
NASA-CR-56446 N64-22450 15-15

PROPELLANT FLOW METER FOR ION ROCKET SYSTEMS
NASA CR-54070 N64-23197 16-27

HIGH PRECISION CALIBRATION LOOP FOR MAGNETIC FLOWMETER
EUR-1631.D N64-25363 17-15

EFFECT OF NONSTANDARD APPROACH PIPING ON VENTURI AND ORIFICE METER ACCURACY
NASA-CR-58549 N64-28959 20-15

CATHETER-TIP FLOW METER FOR MEASUREMENT OF CORONARY ARTERIAL BLOOD FLOW IN DOGS
SAM-TDR-64-33 N64-29989 21-16

EVALUATION OF AXIAL FLOW MASS FLOW METER UNDER STEADY STATE CONDITIONS
NATTS-ATL-TN-26 N64-31703 23-11

FLOW PATTERN
PRESSURE DISTRIBUTIONS & FLOW PATTERNS ON CONES WITH SHARP EDGES AT MACH 4
ARC-REM-3340 N64-13359 04-02

FLOW STRUCTURE OF TURBULENT BOUNDARY LAYER
MD-8 N64-13758 05-11

FLOW PATTERN ANALYSES FOR TWO FORCE-BALANCE HYPERSONIC INLET CONFIGURATION DESIGNS
FDL-TDR-64-19 N64-20182 13-27

ASYMPTOTIC FLOW PATTERN OF HYPERSONIC BODY
PIBAL-805 N64-23101 16-11

GRAPHIC INTERPRETATION OF MAGNETOGASDYNAMIC FLOW PATTERNS
SR-10 N64-23222 16-24

QUASI-SIMILARITY THEORY FOR PREDICTING FLOW PATTERN OF MODERATE BLAST WAVES
REPT.-386 N64-29377 21-11

HIGH LATITUDE IONOSPHERIC CURRENT PATTERNS
AFCRL-64-637 N64-31994 23-12

FLOW SEPARATION
SEPARATION & CONTROL CHARACTERISTICS OF HYPERSONIC FLOW - PRESSURE DISTRIBUTIONS
ASD-TDR-63-755 N64-10539 01-03

PROCESS FOR DIVIDING HOMOGENEOUS FLOW INTO SEPARATE HOMOGENEOUS FLOWS AT DIFFERENT ENERGY LEVELS
TR-AE-6401 N64-14403 06-11

HYPERSONIC AND SUPERSONIC FLOW WITH SEPARATION ZONES
AD-430303 N64-16388 08-02

FORWARD SEPARATION ZONES - CONFIGURATION DURING SUPERSONIC GAS FLOW AROUND SYMMETRICAL BODIES AT ZERO ANGLE OF ATTACK N64-16389 08-02

AERODYNAMIC FORCES ON BODY SURROUNDED BY HYPERSONIC FLOW WITH SEPARATION ZONE
N64-16390 08-02

FLOW SEPARATION ABOUT CONES AT INCIDENCE AND FAN-IN-WING AIRCRAFT ENGINE FOR VTOL AIRCRAFT
ONE/NAE-1963/2/ N64-19916 12-02

LOW SPEED AERODYNAMICS OF STRAIGHT AND SWEPT WINGS WITH FLOW SEPARATION
VIDYA-91 N64-21152 14-03

VARIATION OF NORMAL FORCE WITH ANGLE OF ATTACK FOR SLENDER BODY-WING COMBINATIONS EXHIBITING FLOW SEPARATION
VIDYA-92 N64-21162 14-02

SEPARATED FLOW IN CURVED CHANNELS - BASIS FOR MODULATION IN FLUID AMPLIFICATION
N64-25259 17-11

FLOW SEPARATION EFFECT ON LARGE SPACE BOOSTER - SATURN I /SA-1/ LAUNCH VEHICLE
AIAA PAPER-64-482 N64-26253 18-30

FLOW SEPARATION IN OVEREXPANDED, CONICAL, CONVERGENT-DIVERGENT NOZZLES N64-28987 20-02

SCREEN AND SPLITTER VANE ARRANGEMENTS FOR PREVENTING FLOW SEPARATION IN WIDE-ANGLE CONICAL DIFFUSERS
TN-AE-24-64 N64-32013 23-03

STATIC PRESSURE AND FORCE ON FLOW SEPARATION DISK
LMSC/804382 N64-33845 24-02

FLOW STABILITY
FLOW STABILITY OF NON-NEWTONIAN LIQUID BETWEEN TWO ROTATING CYLINDERS IN PRESENCE OF CIRCULAR MAGNETIC FIELD
MRC-433 N64-12242 03-11

STABILITY OF AXIAL FLOW OF VISCOUS FLUID BETWEEN CONCENTRIC ROTATING CYLINDERS
MRC-430 N64-13753 05-11

VISCOUS FLOW STABILITY BETWEEN ROTATING CYLINDERS WITH FINITE GAP
MD-63-2 N64-14003 05-11

STABILITY AND TURBULENT MOTION OF LIQUID FLOWS
FTD-TT-62-1596/1&2&3&4 N64-16402 08-11

STABILITY OF MAGNETOHYDRODYNAMIC CHANNEL FLOW WITH ALIGNED MAGNETIC FIELD
FLIGHT SCI. LAB. REPT.-88 N64-19170 11-24

STABILITY PROBLEM OF VISCOUS INCOMPRESSIBLE FLOW BETWEEN ROTATING COAXIAL CIRCULAR CYLINDERS WITH ADDED AXIAL FLOW
DVL-290 N64-20426 13-02

SURFACE FLEXIBILITY EFFECT ON STABILITY OF LAMINAR FLOW
ARC-CP-602 N64-21699 15-11

FLOW STABILITY ON CYLINDRICAL BODY - RADIAL-AXIAL TURBINE AND TURBOJET ENGINE THROTTLING
FTD-TT-62-1644/1&2&4 N64-23470 16-01

STABILITY OF FLUID SYSTEMS CONTAINING PROPORTIONAL FLUID AMPLIFIERS WITH NO MOVING PARTS
N64-25266 17-11

NUMERICAL METHOD FOR CALCULATION OF EIGENVALUES IN PROBLEM OF PLANE POISEUILLE FLOW STABILITY
NASA-TN-D-2414 N64-26630 18-11

FLOW OVER TURBINE INLET LATTICES AND TEMPERATURE DISTRIBUTION IN ROOT JOINT OF COOLED GAS TURBINE BLADE
FTD-MT-63-202 N64-26729 18-11

STABILITY OF FLOW BETWEEN CONCENTRIC CYLINDRICAL SURFACES IN PRESENCE OF CIRCULAR MAGNETIC FIELD
MTI-64TR25 N64-29348 21-24

STABILITY OF CONDENSING STEAM FLOW INSIDE TUBES FOR RANKINE CYCLE SPACE POWERPLANT DESIGN
NASA-CR-54178 N64-31716 23-06

CONVERGENCE OF GALERKIN METHOD FOR TAYLOR-DEAN FLOW STABILITY AND VISCOUS FLUID PROBLEMS
RPI-63 N64-33023 24-11

CONVERGENCE OF GALERKIN METHOD FOR TAYLOR-DEAN FLOW STABILITY PROBLEMS N64-33024 24-11

FLOW THEORY
SA FLUID MECHANICS
SA HYDRODYNAMICS
NONLINEAR THEORY FOR SUPERCAVITATING FLOW PAST WEDGE IN LONGITUDINAL GRAVITY FIELD
AD-430045 N64-15945 07-02

COMPRESSIBLE FLOW EQUATIONS FOR MAGNETOHYDRODYNAMIC POWER GENERATOR
R64SD5 N64-16463 08-24

LECTURE NOTES FOR COURSE ON HYPERSONIC FLOW THEORY
SUDAER-154 N64-18825 11-11

MAGNETOHYDRODYNAMICS, FLOW THEORY, AND PLASMA PHYSICS
FTD-TT-62-1695/1&2 N64-23479 16-24

PROCEEDINGS OF FLUID AMPLIFICATION SYMPOSIUM - FLUID JET AMPLIFIERS, SWITCHING ELEMENTS AND FLOW THEORY
AD-602000 N64-25253 17-11

TRANSONIC GAS FLOW THEORY - NEW VARIABLES FOR CHAPLYGIN EQUATIONS FOR FLOW IN NOZZLES
N64-27978 20-02

LAMINAR FLOW SOLUTION FOR CONSTANT VISCOSITY AND HEAT CONDUCTIVITY - KATABATIC FLOW THEORY
N64-29536 21-21

FLOW PROCESSES, ATOMIC COLLISIONS, SEEDING, AND NONEQUILIBRIUM MODES IN MAGNETOPLASMADYNAMIC POWER GENERATION
IRD-64-36, PT. 3 N64-30440 22-24

TWO-DIMENSIONAL FLOW THEORY THROUGH ARBITRARY PROFILE BEND
REPT.-147 N64-31436 23-11

POTENTIAL THEORY FOR DEFLECTED JET FLOW - COANDA EFFECT
NLR-TN-G-31 N64-31711 23-11

FLOW VELOCITY
DIMENSIONS OF INSTRUMENTS FOR MEASURING TEMPERATURE, PRESSURE, QUANTITY, AND RATE OF FLOW OF LIQUIDS, GASES, AND VAPORS
FTD-TT-63-16 N64-15575 07-15

WEIGHT FLOW RATES OF AIR THROUGH CIRCULAR HOLES IN FLAT PLATE IMMERSED IN SUBSONIC OR SUPERSONIC AIRSTREAM
NOLTR-61-125 N64-22911 16-11

GAS LUBRICATION AT HIGH TEMPERATURES AND LOW FLOW RATES - NITROGEN GAS LUBRICATED JOURNAL AND THRUST BEARINGS
APL-TDR-64-56 N64-25484 17-17

FORTRAN COMPUTER PROGRAM TO CALCULATE RELATIVE LIQUID LEVELS IN TWO INTERCONNECTED TANKS WITH DIFFERENT FLOW RATES
NASA-CR-56826 N64-27279 19-11

LIQUID-PHASE MASS TRANSFER AT LOW FLOW RATES IN PACKED COLUMN - AXIAL AND RADIAL PECLET NUMBER CALCULATIONS
IS-817 N64-28516 20-11

CESIUM VAPOR EFFLUX PATTERNS AND FLOW RATES FROM CYLINDRICAL TUBES DETERMINED IN FREE MOLECULE AND SLIP FLOW REGIMES
NASA-TN-D-2480 N64-28652 20-11

DESIGN AND CONSTRUCTION OF ANALOG COMPUTER FOR MONITORING MASS FLOWRATE OF ARGON THROUGH PIPING SYSTEM
NAA-SR-9745 N64-29450 21-20

PURE BENDING FLUTTER OF SWEPT WING IN HIGH DENSITY AND LOW SPEED FLOW
REPT.-64-1 N64-30187 21-03

UNCONVENTIONAL METHODS FOR INFLUENCING FLUID FLOW - ION DRAG PUMP AND THRUST BEARING
ASD-TDR-63-776, VOL. III N64-33356 24-17

FLUID
SA CRYOGENIC FLUID
SA HYDRAULIC FLUID
SA INCOMPRESSIBLE FLUID
SA LIQUID
SA MAXWELL FLUID
SA ROTATING FLUID
SOLUTION OF THERMAL CONVECTION EQUATIONS FOR THIN LAYER OF FLUID
NASA-RP-66 N64-10358 01-13

BEHAVIOR OF CONFINED FLUID UNDER NONUNIFORM SOURCE AND WALL HEATING
NASA-TN-D-2079 N64-10467 01-11

THERMODYNAMICS & FLUID DYNAMICS OF MATTER UNDER HIGH STRESS N64-13432 05-23

COOLING SYSTEMS - GRAVITATIONAL EFFECTS & HEAT TRANSFER BY FREE OR NATURAL CONVECTION IN FLUIDS NEAR CRITICAL STATE
AD-426252 N64-13605 05-17

COMPRESSIBILITY COEFFICIENT DETERMINATION FOR MULTIPHASE, MULTICOMPONENT FLUID MIXTURES AT LOW TEMPERATURES AND HIGH PRESSURES
BM-RI-6267 N64-14913 06-23

CENTRIPETAL ENERGY TRANSPORT DURING SPHERICALLY SYMMETRIC IMPLOSIONS IN FLUIDS
DVL-306 N64-15031 07-11

THERMAL CONVECTION OF THIN FLUID LAYERS
NASA-TM-X-51241 N64-17613 09-13

TRANSIENT AND SINUSOIDAL THERMAL DIFFUSION, CONVECTION, AND RELATED INFRASONIC PRESSURE CHANGES IN ENCLOSED FLUIDS
NOLTR-62-94 N64-18360 10-11

FLUID POWER CONTROL DEVICES - ACCELEROMETER, PNEUMATIC SERVOSYSTEMS, COMPRESSIBLE DAMPERS, AND GAS BEARINGS AND VALVES
RTD-TDR-63-4252 N64-20385 13-15

FLUID IMPACT CRATERS AND HYPERVELOCITY - HIGH VELOCITY IMPACT EXPERIMENTS IN METALS AND ROCKS
NASA-CR-56359 N64-22459 15-12

VOLUMETRIC CHEMICAL ENERGY AS MECHANISM FOR ENHANCING ISOTROPIC TURBULENCE OF COMPRESSIBLE FLUID MEDIUM
TR63-217D N64-23401 16-11

FUNCTIONS FOR CALCULATION OF ENTROPY, ENTHALPY, & INTERNAL ENERGY OF REAL FLUIDS USING STATE EQUATIONS AND SPECIFIC HEATS N64-24147 16-11

TRANSIENT BEHAVIOR OF BISTABLE FLUID ELEMENTS
N64-25302 17-09

FLUID POWER CONTROL DEVICES FOR AEROSPACE SYSTEMS
REPT.-8998-7 N64-26886 18-08

BREAKUP OF VARIOUS LIQUID JETS BY SHOCK WAVES AND APPLICATIONS TO RESONANT COMBUSTION
NASA-TN-D-2423 N64-27202 19-11

OSCILLATIONS OF FLUID IN AXIALLY SYMMETRIC TANK BY METHOD OF PERTURBING BOUNDARY SHAPE
N64-27986 20-11

FLOW PAST HYDRODYNAMIC FEATURE ON BOUNDARY OF TWO FLUIDS OF DIFFERENT DENSITIES
N64-28476 20-11

EFFECT OF FLUID VISCOSITY ON WAVE RESISTANCE
AD-602217 N64-28642 20-11

SOUND TRANSMISSION IN MOVING FLUID
REPT.-2 N64-28672 20-23

DYNAMIC BEHAVIOR OF FLUID CONSISTING OF ELECTRICALLY CHARGED PARTICLES HAVING SPIN - MAGNETOGASDYNAMICS
NASA-TM-X-55001 N64-28757 20-24

EFFECT OF FLUID ENVIRONMENT ON TORSIONAL FATIGUE FAILURE

TR-64-GRX-10 N64-28813 20-18

FLOW OF ELECTRICALLY CONDUCTING FLUID IN PLANE CHANNEL
NASA-TT-F-241 N64-29499 21-24

THEORY OF SUPERFLUID HELIUM BASED ON ELEMENTARY EXCITATIONS OF MANY-BODY SYSTEM OF BOSONS
AROD-2813-4 N64-30558 22-23

CONVECTIVE INSTABILITY OF HORIZONTAL FLUID LAYER WITH CONSTANT TEMPERATURE GRADIENTS AND DIFFUSIVE SUBSTANCE CONCENTRATION AT BOUNDARIES
MD-63-6 N64-31841 23-11

CHOKING TWO-PHASE FLOW AND IDEALIZED SOLUTIONS FOR HYDROGEN, NITROGEN, OXYGEN, AND FREON
NBS-TN-179 N64-32071 23-11

TRANSIENT REFLECTION AND TRANSMISSION OF PLANE WAVE NORMALLY INCIDENT UPON SEMIINFINITE ANISOTROPIC PLASMA
AFCRL-64-550 N64-32110 23-24

INTERCELLULAR FLUID MOBILITY WITHIN HONEYCOMB REINFORCED COMMON BULKHEAD FOR SATURN S- IV LAUNCH VEHICLE - BULKHEAD PURGING
NASA-TM-X-53094 N64-33185 24-11

UNCONVENTIONAL METHODS FOR INFLUENCING FLUID FLOW - ION DRAG PUMP AND THRUST BEARING
ASD-TDR-63-776, VOL. III N64-33356 24-17

PHYSIOLOGY & PATHOLOGY OF WATER & SALT METABOLISM AND FLUID BALANCE OF WORKERS IN HOT ENVIRONMENTS
NASA-TT-F-9120 N64-33399 24-16

FLUID AMPLIFICATION
FLUID AMPLIFICATION CONFERENCE
AD-602001 N64-23810 16-11

PROCEEDINGS OF FLUID AMPLIFICATION SYMPOSIUM - FLUID JET AMPLIFIERS, SWITCHING ELEMENTS AND FLOW THEORY
AD-602000 N64-25253 17-11

CURVED TURBULENT MIXING FLOW IN FLUID AMPLIFICATION DEVICES N64-25255 17-11

SEPARATED FLOW IN CURVED CHANNELS - BASIS FOR MODULATION IN FLUID AMPLIFICATION
N64-25259 17-11

LOW PASS FILTERS FOR PNEUMATIC AMPLIFIERS WITH POSSIBLE APPLICATIONS TO PURE FLUID AMPLIFIERS
N64-25267 17-11

ANALYTICAL TECHNIQUES FOR PURE FLUID AMPLIFIERS - FOCUSSED JET AXISYMMETRIC FLUID DEVICE
N64-25269 17-11

SWITCHING TIMES OF BISTABLE FLUID AMPLIFIERS AT VARIOUS POWER AND CONTROL JET PRESSURES
N64-25270 17-11

GEOMETRY EFFECTS ON SWITCHING POINT OF BISTABLE FLUID AMPLIFIER MODEL N64-25271 17-11

FLOW FIELD CHARACTERISTICS IN BISTABLE FLUID AMPLIFIER MODEL N64-25272 17-11

DESIGN OF HIGH GAIN PROPORTIONAL FLUID AMPLIFIER
N64-25273 17-11

FLUID AMPLIFICATION - CONFERENCE
AD-602002 N64-25301 17-11

INTERCONNECTION OF FLUID AMPLIFICATION LOGIC ELEMENTS N64-25304 17-11

STAGING OF CLOSED PROPORTIONAL FLUID AMPLIFIERS FOR LARGE FLOW GAIN N64-25305 17-11

ANGULAR VELOCITY REGULATION WITH FLUID INTERACTION SYSTEM N64-25306 17-11

BIBLIOGRAPHY OF FLUID AMPLIFICATION TECHNIQUES
N64-25307 17-11

THEORY AND APPLICATION OF FLUID AMPLIFIERS WITHOUT MECHANICALLY MOVING PARTS
NASA-CR-101 N64-31699 23-06

ANNOTATED BIBLIOGRAPHY ON FLUID AMPLIFIERS
NASA-CR-102 N64-31700 23-06

LOGIC NETWORK ELEMENTS IN FLUID AMPLIFICATION
NASA-CR-59148 N64-33276 24-11

FLUID AMPLIFIER
VORTEX CONTROLLED PROPORTIONAL FLUID AMPLIFIER
N64-23814 16-11

PROPORTIONAL PURE FLUID AMPLIFIERS - APPLICATION TECHNIQUES N64-23817 16-11

PNEUMATIC BISTABLE FLUID AMPLIFIER - DESIGN ANALYSIS N64-23820 16-11

MULTIPLE-BALL PNEUMATIC FLUID AMPLIFIER
N64-23822 16-11

MULTISTAGED PRESSURE PROPORTIONAL FLUID AMPLIFIER
N64-23823 16-11

MULTISTAGE OPERATION PROPORTIONAL FLUID AMPLIFIER
N64-23824 16-11

STEAM TURBINE SPEED CONTROL BY FLUID AMPLIFIERS
N64-23826 16-11

VISCOSITY EFFECTS ON ENERGY EQUATION OF FREE TURBULENT FLOW IN FLUID AMPLIFIER OPERATION
N64-25254 17-11

SPREADING RATES OF COMPRESSIBLE TWO-DIMENSIONAL REATTACHING JET FLOWS FOR VELOCITY PROFILE IN FLUID AMPLIFIERS N64-25257 17-11

INTERACTION OF OBLIQUE SHOCKS AND EXPANSION WAVES WITH JET BOUNDARY MIXING ZONE FOR FLUID AMPLIFIER STUDY N64-25258 17-11

SOURCES OF JET INTERACTION NOISE IN PROPORTIONAL FLUID AMPLIFIERS N64-25260 17-11

DEFLECTION AND RELATIVE FLOW OF THREE INTERACTING JETS FOR FLUID AMPLIFIER STUDY N64-25261 17-11

HYDRODYNAMICS OF FREE JET IN FLUID JET AMPLIFIER
N64-25263 17-11

WALL REATTACHMENT FLUID AMPLIFIER WITH PULSED CONTROL FLOW N64-25264 17-11

LIMITATIONS OF PURE FLUID AMPLIFIERS - DEVIATIONS FROM IDEAL GEOMETRY, OPERATING CONDITIONS, AND FEEDBACK EFFECTS N64-25265 17-11

STABILITY OF FLUID SYSTEMS CONTAINING PROPORTIONAL FLUID AMPLIFIERS WITH NO MOVING PARTS
N64-25266 17-11

LOW PASS FILTERS FOR PNEUMATIC AMPLIFIERS WITH POSSIBLE APPLICATIONS TO PURE FLUID AMPLIFIERS
N64-25267 17-11

SWITCHING TIMES OF BISTABLE FLUID AMPLIFIERS AT VARIOUS POWER AND CONTROL JET PRESSURES
N64-25270 17-11

GEOMETRY EFFECTS ON SWITCHING POINT OF BISTABLE FLUID AMPLIFIER MODEL N64-25271 17-11

FLOW FIELD CHARACTERISTICS IN BISTABLE FLUID AMPLIFIER MODEL N64-25272 17-11

DESIGN OF HIGH GAIN PROPORTIONAL FLUID AMPLIFIER
N64-25273 17-11

STAGING OF CLOSED PROPORTIONAL FLUID AMPLIFIERS FOR LARGE FLOW GAIN N64-25305 17-11

FLUID INJECTION
LAMINAR BOUNDARY LAYERS WITH INJECTION OF ANOTHER MEDIUM IN GASES
RAE-TRANS-1055 N64-19089 11-11

TURBULENT BOUNDARY LAYER WITH FLUID INJECTION AT HIGH SUPERSONIC SPEEDS
ARC-CP-740 N64-28769 20-11

FLUID MECHANICS
SA GAS DYNAMICS
SA HYDRAULICS
SA HYDRODYNAMICS
SA MAGNETOHYDRODYNAMICS
SA THERMODYNAMICS
CF AERODYNAMICS
CF CONTINUUM MECHANICS
DETERMINATION OF SOUND PROPAGATION RATE IN LIQUIDS
FLUID DYNAMICS, FLIGHT MECHANICS, THERMODYNAMICS AND STRUCTURAL DYNAMICS
S.M.F. FUND PAPER-FF-34 N64-10080 01-01

FLUID MECHANICS RESEARCH - BASE PRESSURE THEORY FOR SUPERSONIC BODIES
ONERA-TP-18 N64-11886 03-02

WIND TUNNEL CAPABLE OF HYPERSONIC SPEEDS USING AIR AS WORKING FLUID
AFOSR-5329 N64-12645 04-10

MAGNETOFLUID DYNAMICS AS BRANCH OF FLUID DYNAMICS
ARL-63-175, PT. 1 N64-12684 04-26

LONGITUDINAL DISPERSION IN PACKED EXTRACTION COLUMN WITH AND WITHOUT PULSATION
UCRL-10928 N64-13214 04-11

SQUID PROJECT FLUID MECHANICS, TRANSPORT AND TRANSFER PROCESSES, CHEMICAL KINETICS, AND COMBUSTION PHENOMENA
AD-420576 N64-13476 05-01

SEMINAR ON HYDRAULICS AND FLUID MECHANICS
N64-13922 05-11

BIBLIOGRAPHY ON FLUID MOTION AND ACOUSTICS
REPT.-63-51 N64-14680 06-23

FLUID OSCILLATION IN SPACE VEHICLE AND EFFECT ON VEHICLE STABILITY
NASA-TR-R-187 N64-14941 06-11

INTEGRAL EQUATIONS AND INEQUALITIES IN THEORY OF FLUIDS N64-15176 07-11

MIXING OF COAXIAL STREAMS OF DISSIMILAR FLUIDS INCLUDING ENERGY-GENERATION TERMS - NUMERICAL SOLUTION, LARGE VARIATION IN FLOW VARIABLES
NASA-TN-D-2123 N64-16915 09-11

SOLUTION TO HYDRODYNAMIC PROBLEMS ON LAMINAR AND TURBULENT FLOW - FLUID MECHANICS
AD-430718 N64-17472 09-11

AERODYNAMICS AND GASDYNAMICS OF FLOWS AT SUPERSONIC AND HYPERSONIC SPEEDS
AID-B-64-3 N64-17519 09-11

FLUID DYNAMICS RESEARCH - BOUNDARY LAYER THEORY
N64-17546 09-11

FLOW FIELD OF COMPRESSIBLE PLASMA OVER BIASED BODY
AD-434731 N64-18313 10-24

FLUID MECHANICS, TRANSPORT PROPERTIES, CHEMICAL REACTION KINETICS, AND COMBUSTION - SQUID PROJECT
AD-435879 N64-18851 11-24

STEADY STATE PLANAR MOTION OF FLUID WITH FREE SURFACE IN CONTAINER UNDERGOING LATERAL HARMONIC VIBRATION
NASA-TN-D-1870 N64-19367 12-11

FLUID DYNAMIC FORCES OF LIFT & DRAG ON SPHERES SUSPENDED IN POISEUILLE FLOW - SQUID PROJECT
PR-106-P N64-19636 12-11

THEORETICAL SEISMOGRAMS FOR SURFACE MOTION OF HOMOGENEOUS FLUID SPHERE DUE TO IMPULSIVE POINT PRESSURE SOURCE AT SMALL DEPTH
AFCRL-64-103 N64-19650 12-26

INTERACTION OF HIGH DENSITY PLASMA WITH ELECTRIC, MAGNETIC, AND FLUID DYNAMIC FIELDS
ARL-64-34 N64-20452 13-24

GAS DISSOCIATION, ROCKET NOZZLE FLUID DYNAMICS, & MOLECULAR BEAM CHEMICAL KINETICS
SR-4-4 N64-20564 13-01

FLUID MECHANICS - INTEGRAL EQUATIONS FOR TWO-DIMENSIONAL LATTICE GAS INTERACTION
TH-53/15 N64-21530 15-20

CORRESPONDENCE BETWEEN FLUID DYNAMICS AND PARTICLE AND FORCE MODELS FOR HIGH SPEED COMPUTER CALCULATIONS
LA-2806 N64-21615 15-11

TRANSFORMATION OF DYNAMIC ENERGY INTO ELECTRICAL ENERGY BY ELECTRO-FLUID DYNAMIC PROCESSES - POWER CONVERSION
ARL-64-61 N64-21981 15-11

CHANGES IN STAGNATION CONDITIONS OF CONDENSING FLUID AT SUBSONIC AND SUPERSONIC VELOCITIES
UNC-5047 N64-22285 15-11

PERFORMANCE CHARACTERISTICS AND INTERACTION BETWEEN PRIMARY AND SECONDARY FLUID FLOW STREAMS OF SUPERSONIC EJECTOR SYSTEMS N64-22441 15-11

FLUID MECHANICS - CAVITY PRODUCTION AND FLOW FIELD DUE TO CAVITATING HYDROFOIL UNDER FREE SURFACE
TR-001-12 N64-22535 15-11

FIELD MODES IN FLUID MECHANICS - MAGNETOHYDRODYNAMICS
AFOSR-64-0719 N64-23144 16-11

IMPACT MODULATOR - FLUID MECHANICS DEVICE
N64-23811 16-11

FLUID MECHANICS DEVICES - DIRECT & TRANSVERSE IMPACT MODULATORS N64-23812 16-11

PURE FLUID LOGIC APPLIED TO ON-OFF CONTROL SYSTEMS
N64-23819 16-11

PURE FLUID HYDROFOIL CONTROL SYSTEM
N64-23828 16-11

PURE FLUID TIMERS - SPECIFICATIONS, COST AND RELIABILITY N64-23830 16-11

NUMERICAL SOLUTIONS TO FLUID DYNAMIC PROBLEMS
NASA-CR-56370 N64-23941 16-11

GENERAL MECHANICS, MECHANICS OF DEFORMABLE MEDIA, AND FLUID MECHANICS N64-24144 16-11

PATH ANGLES, ANGLES OF ATTACK, AND DRIFT FOR LARGE PARTICLE MOTIONS IN MOVING FLUID
DTMB-1813 N64-24190 16-02

MATHEMATICS OF FLUID FLOW, ELECTROMAGNETIC WAVE PROPAGATION, CELESTIAL MECHANICS, CONTROL THEORY, AND SYSTEM RELIABILITY ANALYSIS - BIBLIOGRAPHY
N64-24380 17-20

EFFECTS OF ROTATION & GRAVITATION ON FLUID MEDIUM
AFCRL-64-382 N64-24678 17-21

INTEGRAL EQUATIONS FOR THEORY OF CLASSICAL FLUIDS
TH-55116 N64-24891 17-11

ANGULAR VELOCITY REGULATION WITH FLUID INTERACTION SYSTEM N64-25306 17-11

MOTION EQUATIONS FOR FLUID FLOW THROUGH JET ATOMIZERS OF GAS TURBINE ENGINE
N64-25438 17-27

MULTIPLE PHASE VADOSE - FLUID MECHANICS
JPRS-25562 N64-25625 17-11

DISSOCIATED GAS STUDIES, MOLECULAR BEAM CHEMICAL KINETIC STUDIES, AND ROCKET NOZZLE FLUID DYNAMICS
SR-4-53 N64-25724 17-11

LAND HYDROGRAPHY, SOIL CHARACTERISTICS, SEMICONDUCTOR MATERIALS, AND FLUID MECHANICS
JPRS-25016 N64-26410 18-23

TENSIONS IN LIQUID ON VERGE OF CAVITATION IN FLOW AND NONFLOW SYSTEMS N64-26468 18-11

NUMERICAL SOLUTION AND PROGRAMMING FOR PROBLEMS INVOLVING INTERSECTION OF SHOCKS AND SHOCK-BOUNDARY LAYER INTERACTIONS FOR REAL AND IDEAL GAS
NASA-CR-56414 N64-27905 20-11

STABILITY OF LIQUID LAYER OF UNIFORM THICKNESS SPREAD OVER RIGID CIRCULAR CYLINDER SUBJECTED TO LATERAL ACCELERATIONS
NASA-TN-D-2450 N64-27951 20-11

SELECTED ARTICLES IN FLUID DYNAMICS, FLIGHT MECHANICS, ACOUSTICS, AND MATHEMATICAL PHYSICS
JPRS-25622 N64-27976 20-23

FLUID DYNAMICS AND MECHANICAL ENGINEERING OF LIQUID POTASSIUM TWO-STAGE TURBINE
NASA-CR-54115 N64-28056 20-06

FORCES ON SPHERE ACCELERATING IN VISCOUS FLUID - DRIFTING SNOW
RR-128 N64-29868 21-11

EQUILIBRIUM FREE SURFACE OF CONTAINED LIQUID UNDER EFFECTS OF LOW GRAVITY, TRANSLATIONAL AND ANGULAR ACCELERATION, AND CAPILLARY FORCES
NASA-TN-D-2471 N64-30999 22-11

ELECTROCHEMICAL OXIDATION OF FORMIC ACID ON PLAIN PLATINUM ELECTRODE
SR-5 N64-31281 22-07

NUMERICAL SOLUTION OF NAVIER STOKES EQUATIONS GOVERNING INCOMPRESSIBLE VISCOUS FLUID FLOW
NRC-482 N64-31956 23-20

PURE FLUID SYSTEMS, COMPONENTS, AND CONTROL DEVICES - BIRD HAZARD TO AIRCRAFT - CURRENT PROJECTS IN MECHANICS, HYDRODYNAMICS, AERODYNAMICS AND THERMODYNAMICS
ONE/NAE-1964 /2/ N64-32015 23-10

VALVES AND OTHER COMPONENTS FOR AEROSPACE FLUID SYSTEMS
RPL-TDR-64-25 N64-32170 23-17

VELOCITY AND TEMPERATURE PROFILES FOR NONNEWTONIAN FLUIDS IN CIRCULAR TUBES
REPT.-22 N64-32589 23-11

MECHANICS OF GEYSERING IN CRYOGENICS - PREDICTION METHOD OF SYSTEM GEOMETRY, FLUID PROPERTIES, AND HEATING RATE
NASA-CR-59321 N64-33768 24-11

FLUIDIZED-BED REACTOR
ROTATION OF AND GRAVITATIONAL EFFECTS ON FLUIDIZED BED REACTORS
LAMS-3012 N64-17238 09-23

FLUORESCENCE
SA PHOSPHOR
SA SELF-LUMINOUS BODY
CF LUMINESCENCE
ULTRAVIOLET FLUORESCENCE OF AMINO ACIDS IN FROG MUSCLES
JPRS-19287 N64-11068 02-16

INTERFERENCE SEPARATION MIRRORS WITH LOW AND HIGH ALTERNATING REFRACTIVE INDICES IN FLUORESCENT MICROSCOPY
JPRS-19786 N64-11130 02-15

SPIRALIZATION OF TRANSPORT RIBONUCLEIC ACID MEASURED BY DURATION OF FLUORESCENCE OF ACRIDINE ORANGE DYE
JPRS-22521 N64-12067 03-16

TEMPERATURE & MAGNETIZATION INFLUENCE IN SELECTIVE ABSORPTION AND FLUORESCENCE SPECTRA
E-T-G-63-6 N64-12199 03-23

ABSORPTION, FLUORESCENCE, AND LASER RADIATION SPECTRA FOR SOME COMMERCIAL LASER CRYSTALS
N64-13238 04-25

FLUORESCENCE OF GREEN PLANT CHLOROPLASTS UNDER VISIBLE LIGHT EXCITATION AT LOW TEMPERATURES
N64-13326 04-23

CORRECTING FOR MATRIX EFFECTS IN FLUORESCENT X-RAY ANALYSIS
RSIC-130 N64-16084 07-23

ABSOLUTE FLUORESCENT QUANTUM EFFICIENCY OF SODIUM SALICYLATE
NASA-CR-53230 N64-17573 09-23

DIODE FLUORESCENCE DETECTION OF ZINC DIFFUSION INTO RARE-EARTH DOPED GALLIUM ARSENIDE AND INDIUM PHOSPHATE N64-17875 10-25

FLUORESCENCE IN CADMIUM TELLURIDE AND PARAMAGNETIC RESONANCE OF CHROMIUM IN CADMIUM TELLURIDE
AD-404859 N64-18202 10-25

RADIATIVE RECOMBINATION IN TERMS OF DOUBLE ACCEPTOR FLUORESCENCE N64-18203 10-25

WAVELENGTH ANALYSIS OF FLUORESCENCE FROM GASES EXCITED BY VACUUM ULTRAVIOLET RADIATION - PHOTOIONIZATION
AFCRL-64-168 N64-19633 12-23

METHODS OF MEASURING SURFACE TEMPERATURE BY PHOTOLUMINESCENCE N64-20424 13-33

PRODUCTION OF OPTICAL MASER ACTION BY ACTIVATED GASES, FLUORESCENT MATERIALS AND SEMICONDUCTORS
N64-20658 13-25

FLUORESCENCE AND ABSORPTION OF RARE EARTH IONIC AND TRANSITION METAL IONIC SOLIDS - OPTICAL MASERS
AD-428961 N64-21051 14-25

FLUORESCENCE OF EARTH ATMOSPHERE DURING TWILIGHT IN OXYGEN LINE AS RESULT OF RESONANCE ABSORPTION OF SOLAR EMISSION LINE N64-21886 15-12

INFRARED EXCITATION OF CALCIUM FLUORIDE CRYSTALS WITH DYSPROSIUM AND FLUORESCENT EMISSION
N64-23002 16-25

INFRARED EXCITATION OF CALCIUM FLUORIDE CRYSTALS CONTAINING URANIUM AND FLUORESCENT EMISSION
N64-23003 16-25

SPLITTING OF FLUORESCENCE SPECTROSCOPIC GROUND STATES IN ORIENTAL RUBY N64-23004 16-25

RELATIONSHIP BETWEEN PHYSIOLOGICAL STATE AND MEDIUM DURATION OF FLUORESCENCE OF BACTERIOCHLOROPHYLL IN CELLS N64-23434 16-16

ENERGY CONVERSION BY FLUORESCENCE PUMPING OF LASERS
NOTS-TP-3506 N64-25120 17-25

ULTRAVIOLET FLUORESCENCE MICROSCOPE
FTD-TT-63-1178/1&2&4 N64-25457 17-23

FLUORESCENCE, POWER TRANSMISSION, AND SOLID STATE PHYSICS N64-26555 18-08

ELECTRIC EXCITATION OF FLUORESCENCE IN MAGNESIUM OXIDE CRYSTALS DOPED WITH CHROMIUM IONS
ML-1036 N64-27233 19-23

FLUORESCENT ION INTERACTION - ENERGY TRANSFER BETWEEN RARE EARTH IONS IN TUNGSTATES, QUENCHING INTERACTIONS, AND FLUORESCENCE OF MANGANESE DIFLUORIDE
SRRC-RR-64-39 N64-27989 20-25

INTERACTION OF RARE EARTH IONS, FLUORESCENCE QUENCHING, AND ION FLUORESCENCE IN CONCENTRATED MANGANESE SYSTEMS N64-27990 20-25

RADIAL DEPENDENCE OF QUENCHING INTERACTION BETWEEN RARE EARTH IONS N64-27993 20-25

RELATION OF FLUORESCENCE OF MANGANESE DIFLUORIDE TO ITS MAGNETIC ORDERING AT NEEL TEMPERATURE
N64-27994 20-25

WAVELENGTH, LIFETIME, AND RELATIVE INTENSITY OF

FLUORESCENCE OF MANGANESE DIFLUORIDE AND ALKALI MANGANESE TRIFLUORIDES N64-27995 20-25

ABSORPTION AND FLUORESCENCE SPECTRA OF EUROPIUM IN SINGLE CRYSTAL YTTRIUM OXIDE
SSD-TDR-64-113 N64-28537 20-25

RELAXATION TIME MEASUREMENTS OF EXCITED STATES OF PARAMAGNETIC IONS IN CRYSTALS - FLUORESCENCE LIFETIMES OF RUBY
AF-111 N64-28792 20-25

ABSOLUTE FLUORESCENT QUANTUM EFFICIENCY OF SODIUM SALICYLATE N64-28964 20-25

DETECTION OF UPPER ATMOSPHERIC ELECTRONS WITH ENERGIES FROM 40 EV TO 5 KEV USING FLUORESCENT SCREEN INDICATOR ON COSMOS V SATELLITE N64-29083 21-12

FLUORESCENCE OF TRANSITION METAL IONS IN CRYSTALS
TR-190 N64-30690 22-25

SUGGESTED VALUES FOR FLUORESCENCE YIELDS & ABSORPTION JUMP RATIOS BY CHARACTERISTIC RADIATION ANALYSIS - MICROPROBE ANALYSIS
NLCO-917 N64-31016 22-23

ESTIMATION OF TRACE IMPURITIES BY FLUORIMETRIC METHODS - LITERATURE SURVEY AND EXPERIMENTS WITH FLUORESCENCE REAGENTS AND SEPARATION TECHNIQUES
FTR/1/GE, PT. 1 N64-31322 22-07

ESTIMATION OF TRACE IMPURITIES BY FLUORIMETRIC METHODS - FLUORESCENCE REAGENT SELECTION AND INSTRUMENTATION
FTR/2/GE, PT. 2 N64-31323 22-07

INFLUENCE OF TEMPERATURE AND MAGNETIZATION IN SELECTIVE ABSORPTION AND FLUORESCENCE SPECTRA
E-T-G-63-7 N64-32132 23-25

FLUORESCENCE DURATION MEASUREMENT WITH PHASE FLUOROMETER - EXCITATION BY HIGH FREQUENCY MODULATED LIGHT
TR-413 N64-32275 23-23

LASER RESEARCH - RUBY RELAXATION AND FLUORESCENT PHENOMENA, HIGH RESOLUTION SPECTOGRAPH, AND FLASH LAMP
NRL-1553 N64-33145 24-25

FLUORESCENCE ON NONSOLARIZING LASER GLASS MATERIAL - DEFENDER PROJECT
TSR-4 N64-33925 24-25

FLUORIDE
SA CALCIUM FLUORIDE
SA HYDROGEN FLUORIDE
SA LITHIUM FLUORIDE
SA NITROGEN FLUORIDE
SA OXYGEN FLUORIDE
SA URANIUM FLUORIDE
CF HALIDE
EUDIOMETRIC METHOD USING FLUORIDE-CATALYZED HYDROCHLORIC ACID FOR DETERMINATION OF METALLIC THORIUM IN SLURRIES
AEET/ANAL/20 N64-10124 01-18

URANIUM AND PLUTONIUM REMOVAL AS HEXAFLUORIDES BY FLUID-BED VOLATILITY FLUORINATION PROCESS
ANL-6742 N64-10217 01-19

PROPERTIES OF PLUTONIUM HEXAFLUORIDE
ANL-6753 N64-10218 01-19

SEPARATION OF GASEOUS MIXTURES OF URANIUM AND PLUTONIUM HEXAFLUORIDES BY THERMAL DECOMPOSITION
ANL-6762 N64-10219 01-19

STRUCTURE OF TETRA N-BUTYL AMMONIUM FLUORIDE HYDRATE CRYSTALS N64-10978 02-28

PREPARATION OF PURE CERIUM METAL FROM CERIUM OXIDE BY ELECTROLYTIC PROCESS USING FLUORIDE BATH
BM-RI-6362 N64-14245 06-17

X-RAY AND RADIOCHEMICAL ANALYSIS OF PROTACTINIUM FLUORIDE N64-15656 07-07

URANIUM AND PROTACTINIUM EXTRACTION FROM MOLTEN FLUORIDE SYSTEMS BY OXIDE PRECIPITATIONS N64-15658 07-07

UV-IRRADIATION PREPARATION AND PERFLUOROALKYLATION OF CARBO-, NITRO-, & SULFOFLUORIDES
AROD-007-18 N64-16963 09-07

EFFECT OF FLUORIDE, SULFATE, & CHLORIDE IONS ON ADSORPTION OF OLEATE ON FLUORITE AND BARITE
BM-RI-6412 N64-17983 10-25

THERMOCHEMICAL PROPERTIES OF NOBLE GAS FLUORIDES N64-18809 11-13

THERMODYNAMIC STUDIES OF FLUORIDES AND REFRACTORY COMPOUNDS - INORGANIC CHEMISTRY N64-18810 11-13

DIRECT ELECTROLYSIS OF URANIUM DIOXIDE TO URANIUM METAL IN FLUORIDE MELTS
BM-RI-6436 N64-18990 11-17

EFFECT OF NITRIC ACID, THORIUM, FLUORIDE, AND ALUMINUM ON PROTACTINIUM ADSORPTION BY UNFIRED VYCOR GLASS
ORNL-3599 N64-19237 11-07

GEOMETRY OF TRANSITION METAL DIHALIDES - FLUORIDES OF MANGANESE, COBALT, NICKEL, COPPER, & ZINC
ITR-6 N64-25586 17-19

FUSED FLUORIDE COATINGS AS SOLID LUBRICANTS IN LIQUID SODIUM, HYDROGEN, VACUUM, AND AIR
NASA-TN-D-2348 N64-26414 18-17

MERCURY PHOTOSENSITIZED OXIDATION OF TETRAFLUOROETHYLENE
SSD-TDR-64-106 N64-27470 19-07

NEW FLUORIDE SYSTEMS WITH CONTROLLED GROSS DEFECTS - MECHANICAL, OPTICAL, AND ELECTRICAL PROPERTIES OF POLYCRYSTALLINE AGGREGATES AT HIGH PRESSURES
AD-602150 N64-28867 20-07

VOLATILE TRANSITION METAL FLUORIDES AND PERFLUOROALKYL DERIVATIVES
AD-423390 N64-29172 21-07

SPECTRAL AND MAGNETO-CHEMICAL STUDIES OF 5-TRIFLUOROMETHYLTETRAZOL COMPLEXES, COPPER COMPLEXES OF SUBSTITUED BENZOIC ACIDS, AND COPPER HALIDE COMPLEX WITH PYRIDINE N-OXIDE SUBSTITUTIONS
SR-9 N64-31093 22-07

FLUCTUATIONS IN ANTIFERROMAGNETIC RESONANCE LINEWIDTH OF MANGANESE AND NICKEL FLUORIDES NEAR TRANSITION TEMPERATURE
TR-302 N64-32088 23-25

ULTRAVIOLET SPECTRA AND MOLECULAR BONDING PROPERTIES OF FLUORIDES
PR-5 N64-32961 24-07

BROMINE TRIFLUORIDE METHOD FOR DETERMINATION OF OXYGEN CONTENT IN LIQUID ALKALI METALS
NASA-CR-58942 N64-33098 24-10

FLUORINATION
URANIUM AND PLUTONIUM REMOVAL AS HEXAFLUORIDES BY FLUID-BED VOLATILITY FLUORINATION PROCESS
ANL-6742 N64-10217 01-19

FLUID BED FLUORINATION OF TRIURANIUM OCTOXIDE
ANL-6763, PT. 4 N64-14202 06-17

PRODUCTION OF FLUORINATED BIFUNCTIONAL ORGANIC COMPOUNDS FOR USE AS MONOMERS FOR FLUORINATED POLYCONDENSATION POLYMERS
RSIC-165 N64-20462 13-07

FLUORINATION OF COPPER AT HIGH TEMPERATURES
NASA-RP-265 N64-26590 18-07

ELECTRODE FOR ELECTROCHEMICAL FLUORINATION - SYNTHESIS OF NITROGEN-FLUORINE COMPOUNDS IN ANHYDROUS HYDROGEN FLUORIDE
TRACOR-64-228-U N64-29897 21-07

PRODUCTION OF FLUORINATED NITROSO RUBBERS
RD-343-03 N64-30497 22-19

SYNTHESIS & POLYMERIZATION OF FLUORINATED SULFUR MODIFIED NITROSO RUBBER
QR-2 N64-30560 22-07

BONDING FLUORINATED POLYMERS TO UNIMPROVED SURFACE USING PRESSURE SENSITIVE BONDING MATERIALS
NASA-TT-F-9070 N64-31334 22-07

FLUORINE
CF HALOGEN
BERYLLIUM, FLUORINE, AND ALUMINUM NUCLEAR REACTIONS AT 27.5 MEV
URPA-10 N64-10193 01-23

HYGIENE & SANITATION - EFFECT OF LOW CONCENTRATION OF FLUORINE, SANITARY INDICES FOR WATER RESERVOIR, AND AIR IONIZATION
JPRS-19067 N64-11064 02-16

KINETICS OF ELEMENTARY REACTIONS OF HYDROGEN AND FLUORINE - SQUID PROJECT N64-13485 05-24

VAPOR PRESSURE, HEAT OF FORMATION, & SUBLIMATION OF NITROGEN & FLUORINE
MR-15 N64-14404 06-19

PICKUP AND RELEASE OF FLUORINE BY ZIRCALOY
AECL-1903 N64-16150 08-07

COMBUSTION OF ELEMENTAL BORON WITH FLUORINE - DEPENDENCE OF REACTION MECHANISMS ON TEMPERATURE AND PRESSURE
TEI-TP-209 N64-16444 08-26

CONSTRUCTION AND CALIBRATION OF APPARATUS FOR STUDY OF LIQUID OXIDIZERS CONTAINING FLUORINE
AD-429849 N64-16849 08-26

CORROSIVENESS OF LIQUID AND GASEOUS FLUORINE
NASA-TM-X-54612 N64-17691 09-18

BETA DECAY ASYMMETRY PARAMETERS FOR NEON-19 AND NUCLEAR MAGNETIC DIPOLE MOMENT FOR NEON-19 AND FLUORINE
UCRL-11169 N64-18985 11-23

ATTEMPT TO IMPROVE FLUORINE GENERATING ELECTRIC CELL LIFE BY USING CARBON TO CARBON ANODE CONNECTIONS
KY-452 N64-19074 11-17

CRYOGENIC SOLUTIONS AND SOLUBILITIES IN LIQUID FLUORINE
NASA-TN-D-2286 N64-23233 16-26

HEATS OF FORMATION OF METALLIC BORIDES BY FLUORINE BOMB CALORIMETRY
NBS-8153 N64-26508 18-13

SOLUTION AND CONDUCTIVITY STUDIES IN FLUORINE-CONTAINING LIQUID OXIDIZER
REPT.-144-Q4 N64-27566 19-26

FRICTION, WEAR, AND DYNAMIC SEAL STUDIES IN LIQUID FLUORINE AND LIQUID OXYGEN
NASA-TN-D-2453 N64-27945 20-17

FLUOROCARBON COMPOUNDS WITH NITROGEN-FLUORINE BONDS
AROD-007-20 N64-29441 21-07

FLUORINE CHEMISTRY
PR-4 N64-29921 21-07

FLUORINE ATOM NUCLEAR-MAGNETIC-RESONANCE SHIELDING PARAMETERS OF FLUOROBENZONITRILE DONOR-ACCEPTOR COMPLEXES - QUANTITATIVE MEASURE OF ELECTRON ACCEPTOR STRENGTHS
TR-1 N64-30032 21-07

NUCLEAR MAGNETIC RESONANCE SPECTRA OF FLUORINE NUCLEI IN SUBSTITUTED FLUORO COMPOUNDS
JPRS-26676 N64-32053 23-07

FLUORINE AND NITROGEN ANIONS AND CATIONS IN SOLUTIONS OF NITROGEN-FLUORINE COMPOUNDS
NQ-76-6 N64-32684 23-07

EFFECT ON LAUNCH PROBABILITY DUE TO ADDITION OF 30 PERCENT BY WEIGHT LIQUID FLUORINE TO 70 PERCENT LIQUID OXYGEN IN ATLAS BOOSTER
GD/A-DDB-64-024 N64-33874 24-26

FLUORINE COMPOUND
ELECTROLYSIS OF FLUORINE COMPOUND-BEARING MOLTEN MEDIA FOR PRODUCTION OF REFRACTORY RARE METALS
JPRS-17729 N64-10715 02-18

EFFECT OF PARTLY FLUORINATED ADDITIVES ON WETTABILITY OF SOLID POLYMERS - ORGANOPHILIC/ORGANOPHOBIC BALANCE OF SOLUTE
NRL-5952 N64-11176 02-07

PREPARATION OF VINYL, STYRENE, BUTADIENE, ACRYLATE, AND POLYESTER FLUORINE MONOMERS
JPRS-22383 N64-11983 03-07

PREPARATION OF FLUOROCARBON COMPOUNDS WITH NITROGEN-FLUORINE BONDS
AD-423084 N64-12267 03-07

FLUORINATED CARBOCYCLIC AND HETEROCYCLIC COMPOUNDS
AD-432978 N64-17479 09-07

SYNTHESIS OF NEW SOLID COMPOUNDS CONTAINING NITROGEN, OXYGEN, & FLUORINE
AD-434866 N64-18782 11-07

CHEMICAL REACTIVITY OF HYDROGEN, NITROGEN, AND OXYGEN AT CRYOGENIC TEMPERATURES, AND KRYPTON FLUORIDE STUDIES
NASA-CR-53883 N64-19823 12-07

BOMBARDMENT AND IRRADIATION PRODUCTION METHODS FOR OXYGEN-FLUORIDE RADICALS
AD-437465 N64-20186 13-07

PRODUCTION OF FLUORINATED BIFUNCTIONAL ORGANIC COMPOUNDS FOR USE AS MONOMERS FOR FLUORINATED POLYCONDENSATION POLYMERS
RSIC-165 N64-20462 13-07

SYNTHESIS AND PHYSICAL & CHEMICAL PROPERTIES OF GERMANIUM FLUORPHLOGOPITE COMPOUND
BM-RI-6443 N64-20488 13-19

SOLUTION AND CONDUCTIVITY OF FLUORINE-CONTAINING LIQUID OXIDIZER
REPT.-144-Q3 N64-20573 13-26

SYNTHESIS AND PROPERTIES OF FLUORIDES AND PLASMA REACTIONS OF FLUOROCARBONS
AD-439596 N64-20855 14-07

FLUORINE OXIDIZERS - ELECTROLYTIC STUDIES IN BROMINE FLUORINE COMPOUNDS
QTSR-3 N64-22126 15-07

CHEMICAL REACTIONS OF FLUORINE NITRATE
TR-46 N64-22194 15-07

SYNTHESIS OF FLUORINE-CONTAINING COMPOUNDS
AD-602290 N64-25752 17-19

RELATION OF FLUORESCENCE OF MANGANESE DIFLUORIDE TO ITS MAGNETIC ORDERING AT NEEL TEMPERATURE
N64-27994 20-25

WAVELENGTH, LIFETIME, AND RELATIVE INTENSITY OF FLUORESCENCE OF MANGANESE DIFLUORIDE AND ALKALI MANGANESE TRIFLUORIDES N64-27995 20-25

PRODUCTION, ISOLATION, AND IDENTIFICATION BY ELECTRON PARAMAGNETIC RESONANCE SPECTRUM OF OXYGEN-FLUORINE RADICALS AND COMPOUNDS
QPR-3 N64-30583 22-07

AROMATIC POLYFLUORINE COMPOUNDS - CHEMICAL AND THERMAL STABILITY N64-31574 23-07

THEORETICAL AND QUANTUM CHEMISTRY OF ENERGETIC NITROGEN, OXYGEN, FLUORINE COMPOUNDS - FUNDAMENTAL BONDING AND BEHAVIOR
QTR-2 N64-32095 23-07

SYNTHESIS AND CHEMICAL REACTIONS OF NEW FLUORINE CONTAINING COMPOUNDS
AD-449477 N64-32861 24-07

CHEMISTRY OF OXYGEN FLUORIDE AND OZONE FLUORIDE
IITRI-C227-7 N64-32967 24-07

ELECTROCHEMISTRY AND MASS SPECTROMETRY OF NITROGEN FLUORINE COMPOUNDS
HRC-64-4 N64-32982 24-07

ELECTRON COUPLING OF NUCLEAR SPIN - TEMPERATURE DEPENDENCE OF COUPLING CONSTANT IN 2-FLUOROBENZOTRIFLUORIDES
TR-73 N64-33843 24-07

QUANTUM CHEMISTRY OF ENERGETIC NITROGEN-OXYGEN-FLUORINE COMPOUNDS
AD-450087 N64-33973 24-07

FLUORINE-LIQUID OXYGEN /FLOX/
NONEQUILIBRIUM RECOMBINATION IN NOZZLES FOR LIQUID OXYGEN-HYDROGEN, FLUORINE-HYDROGEN, AND FLUORINE-LIQUID OXYGEN-HYDROGEN PROPELLANTS
TDR-269/4210-10/-6 N64-32482 23-26

FLUORITE
EFFECT OF FLUORIDE, SULFATE, & CHLORIDE IONS ON ADSORPTION OF OLEATE ON FLUORITE AND BARITE
BM-RI-6412 N64-17983 10-25

FLUORO COMPOUND
HYDROPHOBIC AND OLEOPHOBIC FLUOROPOLYMER COATINGS WITH LOW SURFACE ENERGY - PROPERTIES AND APPLICATIONS
NRL-6039 N64-18368 10-19

FLUORO COMPOUNDS FOR THERMAL PROTECTION OF POLYMERS
AD-438520 N64-25835 18-07

MERCURY PHOTOSENSITIZED OXIDATION OF TETRAFLUOROETHYLENE
SSD-TDR-64-106 N64-27470 19-07

PYROLYSIS OF FLUOROPOLYMERS TO OBSERVE VOLATILITY
N64-27830 19-07

VOLATILE TRANSITION METAL FLUORIDES AND PERFLUOROALKYL DERIVATIVES
AD-423390 N64-29172 21-07

SYNTHESIS OF DIMETHYL-BIS-PERFLUOROPROPYL-SILANE AND STUDY OF PYROLYTIC AND HYDROLYTIC STABILITY
N64-29173 21-07

ADDITION OF FLUORO-OLEFINS TO SN-H BONDS OF ORGANOTIN HYDRIDE N64-29174 21-07

CHROMIUM TETRAFLUORIDE PREPARATION AND REACTIONS
N64-29175 21-07

NUCLEAR MAGNETIC RESONANCE SPECTRA OF FLUORINE NUCLEI IN SUBSTITUTED FLUORO COMPOUNDS
JPRS-26676 N64-32053 23-07

FLUOROCARBON
PREPARATION OF FLUOROCARBON COMPOUNDS WITH NITROGEN-FLUORINE BONDS
AD-423084 N64-12267 03-07

UV-IRRADIATION PREPARATION AND PERFLUOROALKYLATION OF CARBO-, NITRO-, & SULFOFLUORIDES
AROD-007-18 N64-16963 09-07

WATER-SOLUBLE SURFACTANTS OF PERFLUOROCARBON TYPE CAPABLE OF FORMING VAPOR-SECURING AGENTS FOR FLAMMABLE-LIQUID FIRE EXTINGUISHERS
NRL-6057 N64-18779 11-26

REACTIONS OF FLUOROCARBONS AND NITROGEN-FLUORINE COMPOUNDS - ULTRAVIOLET INDUCED FLUORINATION OF CYANOGEN
QTR-19 N64-28701 20-07

FLUOROCARBON COMPOUNDS WITH NITROGEN-FLUORINE BONDS
AROD-007-20 N64-29441 21-07

ADSORPTION OF FLUOROCARBONS ON SILICA AND FERRIC OXIDE GELS
AD-601718 N64-31092 22-07

HIGH PRESSURE RESEARCH ON ORGANIC FLUOROCARBON AND INORGANIC SYNTHESIS IN BORON-PHOSPHORUS-NITROGEN-CARBON SYSTEM
AROD-3177-3 N64-32369 23-07

ELECTRON IMPACT PROCESSES IN ELECTRONEGATIVE PERFLUOROCARBONS - NEGATIVE ION MASS SPECTROMETRY
N64-32752 24-07

FLUOROSCOPY
INSPECTION OF THICK POLYETHYLENE SECTIONS BY RADIOGRAPHY AND FLUOROSCOPY
PA-TM-1145 N64-12344 03-19

FLUORSPAR
CF CALCIUM FLUORIDE
SELECTIVE FLOTATION OF BARITE-FLUORSPAR ORE
BM-RI-6491 N64-25840 18-07

FLUTTER
SA PANEL FLUTTER
CF BOUNDARY LAYER CONTROL
CF VIBRATION
MASS-DENSITY RATIO IN HYDROFOIL FLUTTER PREDICTION
ADR-06-12-62.1 N64-10263 01-04

CAMBER FLUTTER CHARACTERISTICS OF MONOCOQUE AND MULTIWEB WINGS SUBJECTED TO SUPERSONIC FLOW
NASA-TR-R-150 N64-10468 01-03

SUPERSONIC FLUTTER OF RECTANGULAR, ORTHOTROPIC PANELS N64-11026 02-02

PREDICTING FLUTTER AND DIVERGENCE OF UNSWEPT WINGS AT SUBSONIC & SUPERSONIC SPEEDS
NASA-TN-D-2051 N64-11902 03-33

APPROXIMATE MODELING OF WING FLUTTER - HYDRO-PAN INVESTIGATION N64-12492 04-03

WING FLUTTER STUDY BY COMPUTATION OF WORK FROM FORCES & MOMENTS FOR PERIOD OF VIBRATIONS
FTD-TT-63-738/1&2 N64-12624 04-33

FLUTTER ANALYSIS OF FAILURE AND VIBRATIONAL MODE FOR AIRCRAFT N64-13552 05-01

AIRCRAFT ENGINE FLUTTER FAILURE DUE TO INSTABILITY OF CONTROL SURFACE MASS DISTRIBUTIONS
N64-13559 05-33

STRUCTURAL DYNAMICS OF NONLINEAR FLUTTER AND VIBRATIONAL PROBLEMS N64-13563 05-33

COMPUTER PROGRAM FOR SOLUTION OF FLUTTER AND VIBRATION PROBLEMS FOR MULTIPLE COMPONENT SYSTEM
SSD-TDR-63-158 N64-13628 05-33

FLUTTER OF THIN WALLED CIRCULAR CYLINDER OF FINITE LENGTH IN SUPERSONIC FLOW N64-17551 09-33

WIND-TUNNEL FLUTTER STUDIES OF SWEPTBACK T-TAIL FOR LARGE MULTIJET CARGO AIRCRAFT AT MACH NUMBERS TO 0.90
NASA-TN-D-2179 N64-17725 09-04

STIFFNESS CHARACTERISTICS OF SANDWICH-TYPE FLUTTER MODEL CONSTRUCTION
ERR-FW-167 N64-19137 11-33

COMPARISON OF KERNEL FUNCTION AND STRIP METHODS OF SUBSONIC FLUTTER CALCULATIONS FOR SWEPT AND UNSWEPT WINGS
NASA-TN-D-2297 N64-20285 13-33

FLUTTER ANALYSIS FOR HYDROFOIL STRUTS WITH LOW SWEEP ANGLES

DA-NONR-3989.3 N64-21515 15-03

AIRCRAFT WING FLUTTER CAUSED BY NONLINEAR AERODYNAMIC FORCES
FTD-TT-63-201/162 N64-22345 15-03

FLUTTER CALCULATIONS FOR TOWED GLIDER WITH THREE DEGREES OF FREEDOM N64-23076 16-33

EFFECTS OF LEADING-EDGE SWEEP ON FLUTTER CHARACTERISTICS OF DELTA-PLANFORM AT MACH 15.4
NASA-TN-D-2360 N64-24818 17-03

FLUTTER OF FULLY SUBMERGED SUBCAVITATING HYDROFOIL
TR-4 N64-25634 17-03

PROPELLER WHIRL FLUTTER OF POWER PLANT ON FLEXIBLE WING
NASA-TN-D-2399 N64-27662 19-03

INFLATABLE WIND TUNNEL FLUTTER MODELS N64-29258 21-33

DIAGNOSIS OF DYNAMIC MODEL FLUTTER RESPONSE USING TIME CORRELATION TECHNIQUES N64-29260 21-33

TRANSONIC-SUPERSONIC FLUTTER MODEL OF X-20A AIRCRAFT N64-29272 21-33

TRANSONIC-SUPERSONIC FLUTTER MODEL OF X-20A AIRCRAFT N64-29272 21-33

STORE PITCH FLEXIBILITY EFFECT ON FLUTTER CHARACTERISTICS OF WING-STORE CONFIGURATIONS IN TRANSONIC WIND TUNNEL
NASA-TN-D-2479 N64-30099 21-33

HYDROELASTIC FLUTTER OF FINITE SPAN CAVITATING HYDROFOILS
REPT.-64-12 N64-32584 23-33

TRANSVERSE VIBRATION IN FLUID - APPLICATION TO FLUTTER ANALYSIS
ONERA-TP-160/1964/ N64-33053 24-11

FLUX
SA HEAT FLUX
SA PARTICLE FLUX
IONIZATION OF LOWER IONOSPHERE BY BREMSSTRAHLUNG FROM AURORAL ELECTRON FLUX
NASA-TN-D-2096 N64-10058 01-12

REACTIVITY AND FLUX PERTURBATION ANALYSIS OF SPECTRAL SHIFT CONTROL REACTORS - PERTURBED LATTICES OF URANIUM DIOXIDE
BAW-1274 N64-10151 01-23

TRAPPED ELECTRON FLUX FROM BOMB NEUTRON DECAY - FLUX CALCULATIONS
NASA-TM-X-51055 N64-10295 01-23

INTERACTION OF WAVES IN WAVEGUIDE SYSTEMS WITH LONG ELECTRON FLOWS
JPRS-19051 N64-10813 02-09

VACUUM ION GAUGE WITH FLUX DETECTOR FOR MEASUREMENT OF NUCLEAR RADIATION DOSE ON ELECTRONIC COMPONENTS
USAERDL-TR-2342 N64-12020 03-13

TRAPPED ELECTRON FLUX MEASUREMENTS FROM HIGH ALTITUDE NUCLEAR EXPLOSION
AFCRL-63-891 N64-12181 03-12

FLUX QUANTIZATION IN SUPERCONDUCTORS - THIN SUPERCONDUCTING CYLINDRICAL TUBE N64-13140 04-23

SOLAR RADIATION FLUX DURING SOLAR ECLIPSE
AFCRL-63-796 N64-13647 05-28

FLUX AND ENERGY SPECTRUM MEASUREMENTS OF HYDROGEN, HELIUM, AND HEAVY NUCLEI FROM SOLAR FLARES
NASA-RP-19 N64-14857 06-28

NEUTRINO FLUX CALCULATIONS N64-15508 07-23

CONTROL SYSTEM USING SOLAR FLUX AS FORCE TO CHANGE ORBITAL PARAMETERS OF PASSIVE COMMUNICATIONS SATELLITE
NASA-CR-53578 N64-18440 10-30

FLUXES AND THEIR USE IN SOLDERING ALUMINUM - BIBLIOGRAPHY
TID-3577 N64-18458 10-18

SPECTRUM AND INTENSITY CHANGES OF COSMIC RADIATION AND SOLAR PROTON FLUX DURING MAXIMUM SOLAR ACTIVITY
AFOSR-64-0632 N64-20471 13-28

VISCOSITY AND ELECTRICAL CONDUCTIVITY OF FLUXES FOR ELECTROSLAG WELDING
JPRS-24769 N64-20830 14-19

ELECTRON-SLOWING-DOWN FLUX SPECTRUM OF LOW ENERGY BETA RAYS FROM COPPER 64 IN COPPER
ORNL-3463 N64-21017 14-23

SPECTRUM ANALYSIS OF SCALAR MAGNETIC FLUX PATTERN
TM-3 N64-25032 17-21

NEUTRAL AND IONIZED GAS DENSITIES IN LUNAR ATMOSPHERE AS FUNCTION OF SOLAR CORPUSCULAR FLUX
N64-25737 17-29

SOLAR PRESSURE ATTITUDE CONTROL FOR INTERPLANETARY SPACECRAFT - PHOTON MOMENTUM TRANSFER
NASA-CR-58534 N64-29002 20-06

ELECTRON LOSS RATE FROM OUTER RADIATION BELT USING FLUX MEASUREMENTS ON DISCOVERER SATELLITES
NASA-RP-307 N64-29340 21-28

RADIATION FLUXES IN SNAP-10A/AGENA-D AND SNAP-27/AGENA FLIGHT TEST VEHICLE
FZK-177 N64-30062 21-06

EFFECT OF TEMPERATURE VARIATIONS, THICKNESS OF SUPERCONDUCTING LAYERS, AND LEAD, TIN, & INDIUM ON FLUX DECAY DUE TO ALPHA PARTICLE IRRADIATION
LNF-64/35 N64-32004 23-25

SPACE LIFETIMES IN PARENT MOLECULES OF COMET RADICALS ESTIMATED FROM ABSORPTION CROSS SECTIONS & SOLAR ULTRAVIOLET FLUX
NASA-RP-351 N64-33988 24-29

FLUX DENSITY
FLUX DENSITY VARIATION OF THE RADIO SOUCE CASSIOPEIA-A N64-10029 01-05

MUON FLUX LEAVING EARTH SURFACE AFTER PRODUCTION BY COSMIC RAY NEUTRINOS
NEVIS-115 N64-14048 05-23

EFFECT OF HIGH PEAK FLUX AND TRANSIENT NUCLEAR RADIATION ON TRANSDUCERS AND ELECTRICAL CABLE PERFORMANCE
IDO-16914 N64-14076 05-23

THERMAL NEUTRON FLUX DISTRIBUTIONS IN CONCRETE-WALLED DUCTS CALCULATED FROM ALBEDO MODEL USING MONTE CARLO TECHNIQUE
ORNL-3507 N64-14246 06-23

ELECTROMAGNETIC FIELD FLUX DENSITY CALCULATIONS IN PERIODICALLY NONLINEAR SYSTEMS N64-27160 19-24

GALACTIC AND EXTRAGALACTIC RADIO SOURCE FLUX DENSITIES
AD-442603 N64-30016 21-05

FLUX PATTERNS FROM FREE MOLECULAR GAS FLOW THROUGH CONVERGING AND DIVERGING SLOTS
NASA-TN-D-1864 N64-30996 22-11

SLUG FLOW DENSITY IN HEATED CHANNELS
REPT.-7-7673-23 N64-31280 22-13

FLYING
LANDING OF MANNED HIGH SPEED AIRCRAFT
AGARD-427 N64-13881 05-04

AERODYNAMIC HEATING OF HIGH SPEED AIRCRAFT
ABL/EPA-11 N64-14628 06-13

HIGH SPEED, LOW ALTITUDE FLIGHT TESTS FOLLOWING TERRAIN, AND SPRING-MOUNTED SEAT TESTS IN FLIGHT
AGARD-442 N64-16662 08-04

GROUND EFFECTS MACHINE TO PROVIDE SUSPENSION AND PROPULSION OF VEHICLES AT HIGH FORWARD SPEEDS
AROD-2566-6 N64-16851 08-04

PILOT PERFORMANCE AT SIMULATED LOW ALTITUDE HIGH SPEED FLIGHT
NASA-CR-63 N64-23237 16-04

USE OF MAGNETOHYDRODYNAMICS DURING HIGH SPEED REENTRY
NASA-CR-58042 N64-28923 20-24

ELECTRICAL, THERMAL, AND MAGNETIC EFFECTS IN SUPERCONDUCTORS - DESIGN OF EXPERIMENTS AND TEST APPARATUS
DYNATECH-485 N64-29625 21-25

FLYING PERSONNEL
LIST OF REPORTS FOR FLYING PERSONNEL
FPRC-1178 N64-28114 20-16

FLYING QUALITY
LONGITUDINAL AND LATERAL DIRECTION FLYING QUALITY OF PILOTED REENTRY VEHICLES
TE-1516-F-1 N64-18640 11-30

FLYING QUALITIES AND SPIN EVALUATION OF EXTENDED WING MOHAWK AIRCRAFT
FT-134-0-IA.8 N64-31303 22-04

FLYWHEEL
FRICTION IN BEARINGS AND GEAR TRAIN OF FLYWHEEL ACCELERATION INTEGRATOR
NOLTR-63-127 N64-26239 18-17

STRESS ANALYSIS OF FLYWHEEL ACCELERATOR FOR TESTING MAN-MACHINE SYSTEMS
CE-4462-106-62U N64-26658 18-15

ENERGY GENERATION OR LONG DURATION STORAGE BY FLYWHEEL GENERATOR N64-27115 19-06

FOAM
SA COLLOID
HERMETICALLY SEALED LIGHTWEIGHT FOAM INSULATION FOR LIQUID HYDROGEN TANKS OF LAUNCH VEHICLES N64-25048 17-30

MECHANICAL PROPERTIES OF PLASTIC FOAMS AND HONEYCOMBS FOR USE AS BACKUP CONFIGURATIONS FOR CENTAUR INTERMEDIATE BULKHEAD
MRG-312 N64-27212 19-19

FOAMED PROPELLANT SYSTEM FOR COMPACTION AND STABILIZATION OF COHESIONLESS AND COHESIVE SOILS
SURI-CE-974-647F1 N64-30004 21-12

FOAMED MATERIAL
BONDING FOAM PLASTICS BY INTERNAL HEATING IN HIGH FREQUENCY FIELD
RSIC-85 N64-12920 04-19

HIGH TEMPERATURE MECHANICAL PROPERTIES OF FOAM-IN-PLACE SANDWICH CONSTRUCTION
A485 N64-17143 09-19

POWDER METALLURGY - SINTERING TUNGSTEN POWDER, PLASTIC FLOW IN SINTERED GLASS, AND FOAMED METAL STRUCTURES
AD-437378 N64-19163 11-18

FORMATION AND COMPOSITION OF CRYSTALS IN FOAMED GLASS
FTD-TT-63-275/1&2&4 N64-19745 12-19

CRYSTALLINE FORMS IN FOAMED GLASS N64-19746 12-19

COMPOSITION OF CRYSTALLINE PHASE OF FOAMED GLASS N64-19747 12-19

FOAMED PLASTICS ON ORGANOSILICON RESINS COMBINED WITH ORGANIC POLYMERS
FTD-TT-62-1654/1&4 N64-22626 15-19

CHEMISTRY OF POLYURETHANE FOAM SYSTEMS AND APPLICATION OF SYSTEMS TO ENGINEERING AND DEVELOPMENT OF RIGIDIZABLE SHELTERS AND SOLAR COLLECTORS N64-23710 16-19

EXPANDABLE FOAM-IN-PLACE SHELTERS N64-23719 16-10

MECHANICALLY MIXED POLYURETHANE FOAM-RIGIDIZED SOLAR COLLECTOR N64-23721 16-19

DEVELOPMENT OF POLYURETHANE FOAM IN VACUUM ENVIRONMENT N64-23722 16-19

RIGIDIZATION OF TEN-FOOT MIRROR IN VACUUM CHAMBER AND PHYSICAL PROPERTIES OF LIGHTWEIGHT FOAM FOR SOLAR REFLECTOR
GER-11494 N64-26661 18-06

FOAMING
CF WETTING
FOAM RIGIDIZING OF MIRROR MODELS FOR SOLAR REFLECTOR
GER-11333 N64-32193 23-17

FOCUS
SA IMAGE CONTRAST
CF OPTICS
ELECTROMAGNETIC DIFFRACTION IN FOCAL REGION OF COHERENT LIGHT BEAMS
PR-2 N64-13896 05-23

DIFFRACTION AND FOCUSING OF PARTIALLY COHERENT RADIATION BY CIRCULAR APERTURE
REPT.-1579-4 N64-15364 07-08

VARIATION OF OPTIMUM FOCUS WITH APERTURE OF ABERRATED MULTICOMPONENT OPTICAL SYSTEMS
WRE-TN-OID-32 N64-28066 20-23

REDUCING MUON SHIELD THICKNESS - NEUTRINO FLUXES WITHOUT FOCUSING AND WITH IDEAL FOCUSING
MURA-698 N64-33758 24-23

FOCUSING
SOLENOID CONSTRUCTION WITH AXIALLY SYMMETRIC MAGNETIC FIELD FOR STUDY OF FOCUSING OF ELECTRON BEAM N64-16132 08-23

NEW METHOD OF SOLVING RADIO WAVE PROPAGATION PROBLEMS IN MAGNETOIONIC MEDIA - IONOSPHERIC FOCUSING IN TERRESTRIAL MAGNETIC FIELD
AFCRL-63-945 N64-17861 10-12

FOCUSING OF ELECTROMAGNETIC RADIATION BY ANISOTROPIC PLASMA HALF SPACE
PIBMRI-1202-63 N64-18603 11-24

ELECTROMAGNETIC FIELDS IN OPTICAL RESONATORS INVOLVING FOCUSING ELEMENTS
AFCRL-63-933 N64-20173 13-25

MISALIGNMENT AND QUADRUPOLE ERROR EFFECTS IN FOCUSING SYSTEM FOR TWO-MILE ACCELERATOR
SLAC-11 N64-20664 13-23

FOCUSING AND CONTROL OF INTENSE LASER BEAM
REPT.-1579-6 N64-23975 16-09

SELECTION AND PLASMA FOCUSING OF IONS IN SOURCE OF MULTIDISCHARGE IONS
FTD-TT-64-541/1&2&4 N64-26165 18-23

PREDICTION OF AIR BLAST FOCUSING
BRL-1240 N64-26206 18-12

FORTRAN COMPUTER PROGRAM FOR ELECTROMAGNETIC SCATTERING BEAM IN FOCUSING MEDIUM
CERN-64-29 N64-26604 18-23

WIND EFFECTS ON ACOUSTIC FOCUSING N64-32262 23-23

HIGH POWER CRESTATRON STUDIES - HOLLOW BEAM ELECTRON GUN USING ELECTROSTATIC AND MAGNETIC FOCUSING
QPR-16 N64-32559 23-09

FOG
CF CLOUD
CF HAZE
TURBULENT FLOW, WEATHER FORECASTING, FOG BOUNDARY LAYERS, RAIN INTENSITY CALIBRATION OF RADAR, HIGH SPEED TURBULENCE, & BIBLIOGRAPHY ON METEOROLOGY
JPRS-18141 N64-10570 01-21

SEEDING OF SUPERCOOLED CLOUDS AND FOG OVER LARGE AREAS USING SOLID CARBON DIOXIDE
N64-11167 02-21

DISSIPATION OF FOG FROM GROUND USING SOLID CARBON DIOXIDE N64-11168 02-21

HYGROSCOPIC SALTS IN ANTIHAIL ROCKETS FOR STABILIZING FOG - SOLID CARBON DIOXIDE & SILVER IODIDE N64-11838 03-21

INFLUENCE OF AQUEOUS SOLUTIONS OF LEAD IODIDE ON SUPERCOOLED CLOUDS AND FOGS N64-11839 03-21

SOLID FUEL TORCHES FOR DISPERSING SUPERCOOLED FOGS NEAR GROUND N64-11841 03-21

WEATHER CONTROL THROUGH ARTIFICIAL MODIFICATION OF CLOUDS AND FOG
T-R-401 N64-12834 04-21

TECHNIQUES FOR MODIFICATION OF CLOUDS AND FOGS & DISSIPATING THESE FORMATIONS
JPRS-22609 N64-13228 04-21

CORROSION OF MAGNESIUM ALLOYS IN SALT FOG ENVIRONMENT
CCL-161 N64-20301 13-18

EFFECT OF FATTY ALCOHOL MONOLAYERS ON WATER DROPLETS AND CONDENSATION NUCLEI - FOG PROPERTIES
NASA-CR-52851 N64-24024 16-21

WARM FOG PROPERTIES AND FOG MODIFICATION CONCEPTS
NASA-CR-72 N64-24829 17-21

ARTIFICIAL MODIFICATION OF CLOUDS AND FOG
JPRS-26561 N64-30660 22-21

ATMOSPHERIC ELECTRICAL CHARACTERISTICS IN FOG, SMOKE AND HAZE N64-31764 23-21

OPTICAL INSTRUMENT FOR MEASURING CLOUD AND FOG MICROSTRUCTURE N64-32338 23-15

FOIL
SA METAL FILM
CF SHEET
EFFECT OF PRESSURIZED LUBRICANT ON SELF-ACTING FOIL BEARING FILMS
RR-63-6 N64-12079 03-17

DEFORMATION CONFIGURATIONS OF DIPHASE STRUCTURE WITH DISPERSION OF SECOND PHASE COHERENT WITH MATRIX IN THIN FOILS OF ALLOY
JPRS-22471 N64-12093 03-25

COATED REFRACTORY METAL FOILS
RDR-1325-5 N64-12362 03-18

OPTIMUM PROCESSING PARAMETERS FOR REFRACTORY NIOBIUM BASE ALLOY FOIL
ASD-TDR-63-829, PT. 1 N64-15499 07-18

TENSILE BEHAVIOR OF COPPER FOILS PREPARED FROM ROLLED BULK MATERIAL N64-17447 09-25

NEUTRON FLUX MEASUREMENTS IN RADIATION FIELDS USING FOIL DETECTORS
NARF-62-4T N64-19394 12-23

IBM 704 COMPUTER PROGRAMS FOR NEUTRON ACTIVATION OF FOILS IN SLAB GEOMETRY
ANL-6822 N64-19995 12-20

FABRICATION OF SOLID ELECTROLYTE /MANGANESE OXIDE/ TANTALUM FOIL CAPACITOR
AD-436726 N64-20138 13-09

FURNACE OXIDATION, AND ENVIRONMENTAL TESTING OF COATED NIOBIUM ALLOY FOILS
RDR-1325-7 N64-20856 14-18

HERMETICALLY SEALED TANTALUM FOIL ELECTROLYTIC CAPACITORS FOR OPERATION IN SPACE ENVIRONMENT
AD-430395 N64-21325 14-09

ANALYSIS TECHNIQUES FOR NEUTRON FOIL AND GAMMA DOSIMETRY
AFSWC-TDR-62-107 N64-21523 15-16

COMPOSITIONAL ANALYSIS OF FOIL AND LIQUID SAMPLES WITH N-COMPONENTS BY X-RAY ABSORPTION METHOD
USAELRDL-TR-2457 N64-22722 15-07

EROSION INSPECTION OF FOIL AND STRUT ASSEMBLIES
USNASL-9110-P-IJ N64-23000 16-18

AXISYMMETRICAL FOIL BEARING AND EFFECTS OF COMPRESSIBLE FLOW
RR-64-6 N64-26584 18-17

COMPRESSION OF MAGNETIC FIELD BY EXPLODING FOILS
LGI-64/7 N64-26750 18-24

FOIL-GAUGE COATED METAL FOR HEAT SHIELD USE
N64-27023 19-18

ELECTRON MICROSCOPIC INVESTIGATION OF ANNEALED AND ION BOMBARDED SINTERED ALUMINUM POWDER FOILS
EUR-1833.E N64-28132 20-18

PHOTOMAGNETOELECTRIC DETECTOR OF CADMIUM SULFIDE SINGLE CRYSTALS AND TRANSPORT PROPERTIES OF ROLLED THIN BISMUTH FOIL
RADC-TDR-64-349 N64-28560 20-25

ANNEALING OF ETCHED TANTALUM FOIL AND OPTIMUM ELECTROLYTE COMPOSITION FOR SOLID ELECTROLYTE TANTALUM FOIL CAPACITOR
AD-603305 N64-28607 20-09

TRANSMISSION ELECTRON MICROSCOPIC OBSERVATIONS OF FATIGUE INDUCED DEFORMATION FAULTING IN THIN FOIL STAINLESS STEEL
AFOSR-64-1004 N64-29999 21-18

FOKKER-PLANCK EQUATION
EFFECT OF COLLISIONS ON PLASMA ELECTRON DENSITY FLUCTUATIONS - FOKKER-PLANCK EQUATION
SSD-TDR-63-265 N64-12657 04-24

FOKKER-PLANCK COEFFICIENTS FOR TEST PARTICLE DISTRIBUTION IN ELECTRON PLASMA
NASA-CR-55147 N64-13056 04-24

MODEL FOKKER-PLANCK EQUATION FOR SINGLE SPECIES OF PARTICLES IN PLASMA
NASA-CR-53200 N64-17584 09-24

WAVE MOTION IN PLASMA BASED ON FOKKER-PLANCK EQUATION
NYO-9371 N64-21846 15-25

COMPARISON OF BHATNAGAR-GROSS-KROOK EQUATION AND FOKKER-PLANCK EQUATION FOR DESCRIPTION OF PLASMAS
SSD-TDR-64-115 N64-26109 18-20

FOKKER-PLANCK EQUATION FOR TEST PARTICLE DISTRIBUTION IN EQUILIBRIUM PLASMA
N64-31087 22-24

FOOD
SA DIET
SA NUTRITION
PROBLEMS OF NUTRITION AND FEEDING FOR MANNED SPACE FLIGHT N64-10264 01-16

IONIZING RADIATION AS A FOOD PRESERVATIVE
JPRS-17530 N64-10694 02-16

BIOCHEMICAL ASPECTS OF IONIZING RADIATION METHOD OF FOOD PRESERVATION
JPRS-17591 N64-10702 02-01

IDENTIFICATION OF CELL WALL SUBSTANCES IN ALGAE & FUNGI - SPACE FOOD FOR ASTRONAUTS
AMRL-TDR-63-72 N64-11461 03-16

SPACE BIOLOGY - EFFECT OF RADIATION EXPOSURE AND

WEIGHTLESSNESS ON ORGANISMS, AND SPACE FOOD STUDY
N64-11667 03-16

PROBLEM OF SUPPLYING SPACECREW WITH FOOD OF ANIMAL ORIGIN
N64-11672 03-16

PRESERVATION OF FRUITS AND VEGETABLES BY IONIZING RADIATION
TID-19206 N64-12968 04-16

SURVEILLANCE OF RADIOACTIVE MATERIALS IN AIR, WATER, AND FOOD
HW-79652 N64-14924 06-16

ELECTRICAL RESISTANCE HEATING SYSTEM FOR HEATING FOODS DURING AEROSPACE FLIGHTS
MR-1187-60 N64-16812 08-16

PASSAGE OF STRONTIUM 90 INTO BROTH FORMED DURING COOKING OF BONES, MEAT, POTATOES, AND CABBAGE
JPRS-24139 N64-18114 10-16

IONIZING RADIATION EFFECT ON MICROFLORA IN MEATS AND FOOD - BOTANY
JPRS-24187 N64-18968 11-16

PRODUCTION AND DISTRIBUTION OF RADIOACTIVE IODINE IN MILK AND HUMAN THYROID
UCRL-7716 N64-19097 11-16

RADIATION PASTEURIZATION OF FOODS
TID-7684 N64-20717 13-17

RADIOCHEMICAL METHOD FOR ANALYSIS OF PESTICIDE CONTAMINATION IN FOOD PROCESSING
SAN-1022 N64-21590 15-07

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON DIOXIDE
AMRL-TDR-64-35 N64-27432 19-16

HIGHLY NUTRITIOUS FOOD DEVELOPED FOR SPACE FLIGHT
AMRL-TDR-64-38 N64-29939 21-16

POSSIBLE SYNTHESIS OF ARTIFICIAL FOODS FROM ALGAE
NASA-TT-F-9146 N64-33407 24-16

VITAMIN AND HORMONE EFFECTS ON HEMORRHAGIC DISEASE IN RATS CAUSED BY IRRADIATED FOOD
PR-14 N64-33993 24-16

FORBIDDEN BAND

INTENSITY AND POLARIZATION OF FORBIDDEN BANDS OF SOLAR CORONA SPECTRUM
NASA-TT-F-8930 N64-27363 19-28

FORBUSH EFFECT

INCREASE IN COSMIC RAY INTENSITY AT FORBUSH EFFECT MINIMUM
N64-24423 17-28

EMISSION TIME AND ANGULAR WIDTH OF SOLAR CORPUSCULAR STREAMS FROM DURATION OF FORBUSH EFFECTS
N64-24426 17-28

DECREASE OF COSMIC RAY INTENSITY PRIOR TO MAGNETIC STORM WITH FORBUSH EFFECT
N64-24428 17-28

THREE SUPERIMPOSED FORBUSH EFFECTS IN JULY 1959 MAGNETIC STORMS
N64-24430 17-28

COSMIC RAYS, INTERPLANETARY SPACE ELECTROMAGNETIC STATES, FORBUSH DECREASE, & RADIOSONDE MEASUREMENT
AD-434540 N64-25639 17-28

FORCE

SA AERODYNAMIC FORCE
SA CENTRIFUGAL FORCE
SA CENTRIPETAL FORCE
SA INERTIAL FORCE
SA LIFT FORCE
SA NUCLEAR FORCE
SA POWER
SA PRESSURE
SA STRAIN
SA STRESS
SA TORQUE
SA TORSION

OPTIMUM MICHELL FRAMEWORK FOR THREE COPLANAR FORCES
COA-167 N64-10274 01-13

TWO-COMPONENT MICROBALANCE FOR MEASURING FORCES ON ION-BOMBARDED SURFACES
N64-10361 01-15

FORCES ON CYLINDER IN SHEAR FLOW OF VISCOUS FLUID THROUGH NARROW CHANNEL
ARC-R&M-3343 N64-13386 04-11

AERODELASTICITY - STRUCTURAL DEFORMATION IN AIRCRAFT BY EXTERNAL FORCES
N64-13554 05-13

FORCE BALANCE STUDY OF COMBUSTION INLETS FOR ADVANCED VEHICLE APPLICATIONS
ASD-TDR-63-701 N64-13805 05-02

SIDE FORCES GENERATED BY LATERAL INJECTION OF SONIC GAS JETS AND PROBE IMMERSION INTO CONSTANT AREA SUPERSONIC DUCT FLOW - THRUST VECTOR CONTROL
N64-15633 07-11

HYPERSONIC WIND TUNNEL TESTS OF FORCE AND MOMENT CHARACTERISTICS OF SIMPLE WING SERIES IN AIR AND HELIUM
NASA-TN-D-2328 N64-22672 15-03

MEASUREMENT OF FORCES ON HUMAN BODY DUE TO AIR MOVEMENT
CARI-63-9 N64-23617 16-14

FORCE, MOMENT, AND HINGE-MOMENT CHARACTERISTICS OF SURFACE-PIERCING DIHEDRAL HYDROFOILS
REPT.-964 N64-25382 17-03

FORCES AND MOMENTS DUE TO PROPELLERS OF ARBITRARY CONFIGURATION INCLINED WITH RESPECT TO FREE-STREAM
ADR-01-03-63.2 N64-25836 18-03

MATRIX THEORY FOR FORCE, DEFLECTION, AND STRESS CALCULATION FOR LINEAR-ELASTIC SKELETAL STRUCTURES
WAPD-TM-417 N64-26611 18-14

METHOD FOR SOLVING PROBLEM OF LONGITUDINAL RESPONSE OF FREE-FREE NONUNIFORM BAR TO ARBITRARY FORCE APPLIED AT ONE END
NASA-TN-D-2416 N64-26779 18-13

FORCES ON TETHERED BALLISTIC MISSILES DUE TO ENGINE CUT-OFF
ARC-CP-674 N64-28860 20-13

HYDRODYNAMICS OF EXPLOSIONS - SHOCK WAVE PROPAGATION, EXPLOSION IN UNBOUNDED MEDIUM, BOUNDARY PROBLEMS, & PROBLEM OF EXTERNAL FORCES
FTD-TT-63-381/162, N64-29321 21-11

SPIRAL GROOVE BEARINGS WHICH TRANSMIT FORCE TOWARD AXIS OF ROTATION
N64-29888 21-17

EFFECT OF COUPLE-STRESSES ON FORCE TRANSFER COMPOSITE MATERIAL FORMED BY EMBEDDED MICROFIBERS
WVT-RR-6407 N64-30693 22-13

NORMAL AND LONGITUDINAL HYDRODYNAMIC FORCE COEFFICIENTS FOR SYSTEMATIC SERIES OF TEE HYDROFOILS
DTMB-1801 N64-30918 22-11

VIBRATIONAL SPECTRUM, STRUCTURE, AND FORCE CONSTANTS OF NITRIC ACID
AFCRL-64-651 N64-31373 23-07

FORCE CONDITIONS DURING PRESSING OF PIPES WITH ARBITRARY INTERNAL RELIEF
N64-31422 23-17

FORCE DISTRIBUTION

EMPIRICAL PREDICTION METHOD FOR NONLINEAR NORMAL FORCE ON THIN WINGS AT SUPERSONIC SPEEDS
ARC-CP-662 N64-10401 01-03

VARIATION OF NORMAL FORCE WITH ANGLE OF ATTACK FOR SLENDER BODY-WING COMBINATIONS EXHIBITING FLOW SEPARATION
VIDYA-92 N64-21162 14-02

LINEAR PROBLEM OF LOCAL STABILITY OF CIRCULAR CYLINDRICAL ENVELOPE IN NONUNIFORM FORCES

N64-23471 16-13

GRAPHIC ANALYSIS OF AXIAL AND TRANSVERSE FORCES IN SANDWICH CYLINDERS WITH ANNULAR WEBS LOADED UNDER EXTERNAL UNIFORM PRESSURE
DTMB-1817 N64-27449 19-33

THEOREM ON DISTRIBUTION OF INTERNAL FORCES OF MAXWELL GAS BASED ON GAUSS-HERTZ PRINCIPLES OF MECHANICS
ND-63-8 N64-33313 24-23

FORCE FIELD
MOTION OF SOLID BODY NEAR FIXED POINT IN NEWTONIAN FIELD OF FORCES
MH-TRANS-437 N64-14835 06-23

CHAMBER ROTATION SPEED AND IGNITION POINT LOCATION EFFECTS ON COMBUSTION DURATION AND FLAME DURATION IN CYLINDRICAL FORCE FIELD
TR-2 N64-26856 18-26

TRAJECTORIES RESULTING FROM APPLICATION OF THRUST TO OBJECT IN INVERSE SQUARE CENTRAL FORCE FIELD - ADAPTIVE GUIDANCE
NASA-CR-58205 N64-27281 19-29

EQUATIONS OF MOTION OF SPACECRAFT IN NEWTONIAN FORCE FIELD FOR CONSTANT REACTION ACCELERATION VECTOR
N64-31526 23-29

COMPLETE EXPRESSIONS FOR GRAVITATIONAL AND BUOYANCY FORCE TERMS IN MOTION EQUATIONS OF SUBMERGED BODY
DTMB-1845 N64-31832 23-11

FORCE-FREE MAGNETIC FIELD
SOLAR CORPUSCULAR STREAMS OF PLASMA CLUSTERS WITH FORCE FREE MAGNETIC FIELD IN GEOMAGNETIC STORMS
NASA-TT-F-8967 N64-31560 23-28

POTENTIAL ADVANTAGES OF ANISOTROPIC SUPERCONDUCTOR IN FORCE-FREE SOLENOID
NASA-TN-D-2156 N64-32636 23-23

FORCE LINE
SOLAR EFFECTS ON GEOPHYSICAL PHENOMENA AT CONJUGATE POINTS ON MAGNETIC FORCE LINES
UAG-R146 N64-26220 18-12

FORCED OSCILLATION
APPROXIMATE DETERMINATION OF FORCED OSCILLATIONS IN NONLINEAR GYROSCOPE STABILIZING SYSTEMS
N64-13573 05-23

SMALL-AMPLITUDE FORCED OSCILLATION TECHNIQUE FOR DETERMINING DAMPING AND OSCILLATORY STABILITY IN ROLL, PITCH, AND YAW IN FREE FLIGHT
N64-17016 09-30

DIFFERENTIAL EQUATION FOR UNDAMPED FORCED NON-LINEAR OSCILLATIONS
NASA-CR-53471 N64-18172 10-23

EQUATIONS FOR NONLINEAR & FORCED OSCILLATIONS
R-193 N64-22223 15-23

FORCED OSCILLATIONS IN NONLINEAR AUTOMATIC CONTROL SYSTEM
N64-23089 16-23

SYMMETRICAL ONE-FREQUENCY FORCED OSCILLATION IN NONLINEAR AUTOMATIC CONTROL SYSTEM
N64-23484 16-06

FORCED OSCILLATION IN CLASS OF SELF-BIASED MULTIMODE OSCILLATORS
TR-139 N64-24810 17-09

CALCULATION METHODS FOR FREE AND FORCED OSCILLATIONS OF NONLINEAR AUTOMATIC SYSTEMS - AUTOMATIC CONTROL THEORY
FTD-TT-63-125/1&2 N64-31697 23-09

FORCED VIBRATION
FORCE VIBRATIONS OF CASE-BONDED SOLID PROPELLANT GRAINS
AD-434192 N64-18373 10-33

VIBRATION OF SPHERE FOR DETERMINING DILATATIONAL CONSTANTS OF VISCOELASTIC MATERIALS
CRREL-132 N64-19127 11-23

EVALUATION OF DYNAMIC PROPERTIES OF VISCOELASTIC SOLIDS BY FORCED LONGITUDINAL AND TORSIONAL VIBRATIONAL TECHNIQUES
RES. REPT.-122 N64-20349 13-23

FORCED VIBRATION CHARACTERISTICS OF PARTIALLY FILLED SPHERICAL TANKS - LIQUID SLOSHING
NASA-CR-58652 N64-29402 21-33

THEORETICAL ANALYSIS OF FORCED VIBRATION RESPONSE OF ROCKET SLED TO RANDOM EXCITATION DUE TO RAIL ROUGHNESS
NAVWEPS-8546 N64-32538 23-10

FORECASTING
FORECASTING CLEAR AIR TURBULENCES
RSIC-115 N64-13802 05-21

SUNSPOT FORECASTING
REPT.-6 N64-21229 14-28

ANNOTATED BIBLIOGRAPHY ON LONG RANGE PLANNING AND TECHNOLOGICAL FORECASTING
SRB-63-12 N64-22200 15-01

STATISTICAL METHODS FOR FORECASTING OPERATIONAL AIRPORT CEILING AND VISIBILITY CONDITIONS
TR-1 N64-23198 16-20

SHORT PERIOD FORECASTING OF HIGH WATER HYDROGRAPHS
N64-28403 20-12

OCEANIC FORECASTING AND ANALYSIS
REPT.-17747 N64-30139 21-21

NONADIABATIC FACTORS IN SHORT TERM FORECASTING OF LOWER ATMOSPHERE GEOPOTENTIAL FIELDS
JPRS-26792 N64-32130 23-12

STATISTICAL FORECASTING OF LOW AND TOTAL CLOUD AMOUNTS FROM COMBINED INITIAL AND PROGNOSTIC DATA
ESD-TDR-64-62 N64-33419 24-21

FORGING
FORGING DEPLETED URANIUM COMPONENTS DIRECTLY FROM CO-REDUCED URANIUM ALLOY INGOT STOCK
WAL-TR-420.5/1 N64-10243 01-18

FORGED NICKEL-COBALT-MOLYBDENUM MARAGING STEEL EVALUATION FOR USE IN AIRCRAFT COMPONENTS
FZM-2731 N64-12375 03-18

METALLURGICAL AND MECHANICAL PROPERTIES OF HEAT-TREATED MOLYBDENUM-ALUMINUM-TITANIUM ALLOY FORGING
A247 N64-13101 04-18

MICROSTRUCTURE OF TITANIUM ALLOY - FORGING AT TEMPERATURES ABOVE & BELOW BETA TRANSUS
N64-13138 04-18

EXTRUSION, FORGING, ROLLING, AND SWAGING OF TUNGSTEN-BASE ALLOYS
ASD-TDR-62-670, PT. 2 N64-18577 11-18

FORGING PROCEDURE AND MECHANICAL PROPERTIES OF NICKEL-COBALT-MOLYBDENUM MARAGING STEEL
FZM-2608 N64-20070 13-18

FORGING OF FRONT AND REAR CLOSURES FOR TITANIUM ROCKET MOTOR CASES
WAL-TR-766.2/1-14, VOL. I N64-20908 14-17

METAL FORGING, PRESSING, AND STAMPING METHODS IN USSR
FTD-TT-62-1676/1&2 N64-21923 15-18

DIE-FORGING UNDER PRESSURE
FTD-TT-63-567/1&2 N64-21950 15-17

FORGING MOLYBDENUM AND MOLYBDENUM ALLOYS
FTD-TT-62-1789/1&2 N64-22401 15-18

MECHANICAL PROPERTIES OF HIGH STRENGTH STEEL FORGINGS
RTD-TDR-63-4050 N64-22568 15-18

SPIN FORGE PROCESSING OF MARAGING STEELS
N64-23065 16-18

MECHANICAL PROPERTIES OF CYLINDRICAL SHELLS FORMED BY SPIN FORGING OF 18 PERCENT NICKEL MARAGING STEEL N64-24358 17-17

CLOSED DIE FORGING, RING ROLLING, SHEAR FORMING, TUBE AND SHAPE EXTRUSIONS, AND CENTRIFUGAL CASTING OF REFRACTORY ELEMENTS N64-27598 19-18

PRODUCTION METHOD FOR FABRICATION OF ALUMINUM ALLOY - FORGED FITTINGS FOR TANKAGE SYSTEM OF SATURN LAUNCH VEHICLE
NASA-CR-58029 N64-27895 20-18

PRODUCTION TECHNIQUES FOR PRECISION-FORGED TURBINE BLADES N64-31521 23-17

PRESSURE EFFECT ON DUCTILITY OF METALS DURING HYDRODYNAMIC COMPRESSIVE FORGING
ML-TDR-64-240 N64-31894 23-17

MATERIALS AND TECHNIQUES OF CLOSED DIE FORGING SYSTEM
IITRI-B220-32 N64-33549 24-17

FORM FACTOR
SHAPE FACTORS FOR TENSILE, BENDING, AND TORSIONAL STRESS COMPILED FOR SEVERAL SIMPLE NOTCH SHAPES
RSIC-213 N64-27049 19-33

FORMALDEHYDE
TOXICITY OF ISOALCOHOLS, HIGHER ALCOHOLS, AND MELAMINE-FORMALDEHYDE RESINS
FTD-TT-64-97/1&4 N64-25462 17-16

FORMATION
SA CRACK FORMATION
FORMATION FACTORS, COMPOSITION, AND CHEMICAL & PHYSICAL NONUNIFORMITIES OF EARTH CRUST
N64-10282 01-12

COSMOLOGY - THEORY OF STAR FORMATION AND STELLAR EVOLUTION N64-19343 12-05

PROBLEMS OF ION BEAM FORMATION FROM ELECTRON BOMBARDMENT ION SOURCES
NASA-CR-54143 N64-31088 22-27

FORMATION HEAT
CF SPECIFIC HEAT
HEATS OF COMBUSTION & FORMATION OF CARBIDES OF TUNGSTEN & MOLYBDENUM
BM-RI-6337 N64-12120 03-26

HEAT OF FORMATION OF HEXAUREA ALUMINUM III PERCHLORATE
PA-TM-1295 N64-14099 05-13

VAPOR PRESSURE, HEAT OF FORMATION, & SUBLIMATION OF NITROGEN & FLUORINE
MR-15 N64-14404 06-19

HEAT OF FORMATION OF MUSCOVITE, DETERMINED BY SOLUTION CALORIMETRY
BM-RI-6356 N64-14956 06-07

HEAT OF FORMATION OF LIGHT ELEMENT COMPOUNDS - MODIFICATIONS OF APPARATUS & METHOD, CALORIMETER CALIBRATION, AND DATA ON HYDRAZINE MONOBORANE
UACRL-B910078-2 N64-14965 06-07

HEAT OF FORMATION OF ALUMINUM CARBIDE
BM-RI-6415 N64-17985 10-13

THERMODYNAMIC PROPERTIES AND FORMATION HEATS OF BERYLLIUM COMPOUNDS FOUND IN ROCKET EXHAUST
U-2485 N64-18177 10-26

APPARATUS FOR HEAT OF FORMATION MEASUREMENTS OF BORON COMPOUNDS - SOLID PROPELLANTS
N64-18818 11-13

THERMODYNAMIC EVALUATION OF FORMATION HEAT OF BORON OXYFLUORIDE-PRODUCING REACTION
N64-18822 11-13

HEATS OF FORMATION AND THERMODYNAMICS OF ORGANIC DERIVATIVES OF LIGHTER ELEMENTS FOR CHEMICAL PROPULSION N64-19031 11-07

HEATS OF FORMATION OF GASEOUS OXYGENATED ORGANIC COMPOUNDS
HUM-7-P N64-22539 15-07

FORMATION HEATS AND FREE ENERGIES OF SULFIDES OF MANGANESE, IRON, ZINC, AND CADMIUM
BM-RI-6495 N64-25841 18-07

HEATS OF FORMATION OF METALLIC BORIDES BY FLUORINE BOMB CALORIMETRY
NBS-8153 N64-26508 18-13

HEATS OF FORMATION OF ZIRCONIUM CARBIDE AND HAFNIUM CARBIDE MEASURED BY COMBUSTION CALORIMETRY
BM-RI-6518 N64-28133 20-07

FORMATION HEAT OF BORON TRICHLORIDE
AD-604433 N64-29869 21-07

HEAT OF FORMATION OF LIQUID PHOSPHORUS OXYCHLORIDE
AD-442826 N64-30038 21-07

FORMATION HEATS OF HYDROBROMIC & SULFURIC ACIDS AND EFFECTS OF REACTION MEDIA IN BIOCHEMISTRY AND BIOENERGETICS N64-30462 22-07

COMBUSTION & FORMATION HEATS OF CRYSTALLINE BORON AND TRIMETHYLAMINEBORANE
AD-402335 N64-30679 22-07

FORMATION HEAT OF CRYSTALLINE AND AMORPHOUS BORON OXIDE N64-32268 23-07

FORMIC ACID
ELECTROLYTIC PRODUCTION OF OXYGEN & REDUCTION OF CARBON DIOXIDE FROM AQUEOUS SOLUTIONS OF FORMIC ACID
NASA-CR-52878 N64-11325 02-06

BIOCHEMICAL FUEL CELLS - ELECTRO-OXIDATION OF HYDROGEN AND FORMIC ACID
QPR-5 N64-13968 05-16

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QPR-6 N64-18610 11-06

FORMIC ACID BIOANODE USING E. COLI AS BIOLOGICAL CATALYST - BIOCHEMICAL FUEL CELL
QPR-7 N64-27731 19-06

ELECTROCHEMICAL OXIDATION OF FORMIC ACID ON PLAIN PLATINUM ELECTRODE
SR-5 N64-31281 22-07

FORMING
SA METAL FORMING
SA STRETCH FORMING
ELECTROHYDRAULIC & MAGNETIC FORMING - BASIC EQUIPMENT, EXPLODING BRIDGEWIRE, & INDUCTIVE LOADS
NASA-TM-X-51149 N64-11101 02-17

HOT FORMING AND HEAT TREATMENT OF CERAMICS
FTD-TT-63-146/1 N64-16479 08-17

CERAMIC FORMING PROCESSES AND PARTICLE CHARACTERISTICS
RTD-TDR-63-4069 N64-16576 08-17

COLD FORMING PROCESSES - CERAMICS
N64-16578 08-17

HOT FORMING PROCESSES - CERAMICS
N64-16579 08-17

MELT FORMING PROCESSES - CERAMICS
N64-16580 08-17

FORMING METHODS - CERAMICS N64-16581 08-17

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HOT EXTRUSION OF CERAMIC MATERIALS N64-16614 08-17

MOLECULAR RELAXATION IN POLY-2-FLUORO-5-METHYL-STYRENE STUDIES USING DIELECTRIC CONSTANT AND LOSS MEASUREMENTS
RAE-TRANS-1057 N64-17251 09-09

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RTD-TDR-63-7-910 N64-18058 10-17

APPLICATION OF ULTRAHIGH HYDROSTATIC PRESSURE TO METAL FORMING
OMIC-199 N64-21102 14-25

OBTAINING IMPACT DEFORMING FORCES BY MEANS OF ELECTROHYDRAULIC SHOCKS
FTD-TT-63-25/1&2 N64-23413 16-23

MAGNETIC FORMING COIL DESIGN AND DEVELOPMENT
NASA-CR-56468 N64-24048 16-09

STRUCTURAL DAMAGE IN METAL FORMING PROCESSES
REPT.-64-GC-0272M N64-24238 17-18

HIGH TEMPERATURE AND HIGH ENERGY RATE METAL FORMING
ASD-TR-8-143/III/ N64-25877 18-17

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SAR-3 N64-27236 19-17

MANUFACTURE OF THIN SHELLS BY ELECTROFORMING PROCESS
SUDAER-185 N64-27734 19-17

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WADD-TR-61-72, VOL. 7, SUPPL. N64-28159 20-17

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IR-1 N64-28638 20-17

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NASA-CR-58365 N64-29224 21-33

GRIPPING ABILITY OF CLAMPS FOR EXPLOSIVE FORMING
NASA-CR-58719 N64-29225 21-17

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NASA-CR-58718 N64-29226 21-17

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IR-8-238/I/ N64-29317 21-17

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NASA-TM-X-53117 N64-31726 23-17

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RAC-2638 N64-33101 24-17

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NASA-CR-59395 N64-33922 24-17

FORMULA
S RECURSION FORMULA

FORSTERITE
SA SILICATE
CF OLIVINE
ELECTRIC PROPERTIES OF FORSTERITE
EPIC-OS-129 N64-27550 19-25

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WAPD-TM-398 N64-14539 06-33

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ANGULAR TRACKING RATES REQUIRED OF INSTRUMENTS

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AD-432285 N64-17487 09-29

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N64-18231 10-20

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NOLTR-63-32 N64-18589 11-20

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BRL-1229 N64-21792 15-20

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TR-9 N64-22257 15-23

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N64-24841 17-33

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Y-1470-A N64-25865 18-07

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E-110.3 N64-32190 23-20

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R64TMP-8-/3/ N64-32484 23-20

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UCRL-11222 N64-33147 24-20

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NASA-CR-58829 N64-33222 24-20

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IS-876 N64-33249 24-20

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WAPD-TM-462 N64-33474 24-20

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ORNL-3715 N64-33900 24-23

FOSSIL METEORITE CRATER
EFFECTS OF COSMIC RAYS ON METEORITES - STUDY OF FOSSIL RECORD OF COSMIC RADIATION
N64-19585 12-20

FOULIS THEOREM
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ONR-RM-83 N64-12326 03-20

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THERMOCONDUCTIVITY IN HOLLOW CYLINDER - FOURIER DIFFERENTIAL EQUATION
EUR-377.D N64-11261 02-13

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ARC-R&M-3341 N64-13360 04-03

FOURIER ANALYSIS METHOD FOR NUMERICAL SOLUTION OF

NAVIER STOKES EQUATIONS
NRC-479 N64-29876 21-11

NONSTATIONARY, ONE-DIMENSIONAL HEAT FLOW IN LEVEL PLANE, CYLINDER, SPHERE, AND SEMIINFINITE BODY BY FOURIER EQUATIONS N64-32182 23-13

FOURIER ANALYSIS OF INTERFERENCE LINES FROM CRYSTAL LATTICE MICRODISPLACEMENT N64-32847 24-25

FOURIER-BESSEL SERIES
APPROXIMATE METHODS FOR SOLUTION OF DUAL FOURIER-BESSEL SERIES RELATIONS
AD-434416 N64-30585 22-20

FOURIER LAW
S THERMOCONDUCTIVITY

FOURIER SERIES
FOURIER SERIES SOLUTION TO DYNAMIC PROBLEMS OF ELASTICITY THEORY
FTD-MT-63-134 N64-18682 11-33

FOURIER COEFFICIENTS FOR CHEBYSHEV POLYNOMIALS FOR ANTENNA ARRAY DESIGN
AFCRL-62-726 N64-22304 15-20

RAPID COMPUTATION OF EARTH-SATELLITE EPHEMERIDES USING FOURIER SERIES
RAE-TN-SPACE-61 N64-22499 15-29

DIRECT SOLUTION OF POISSON EQUATION USING FOURIER ANALYSIS
TR-C56 N64-23217 16-20

FOURIER TRANSFORM
FOURIER TRANSFORM OF EXPONENTIAL FUNCTION FOR CASES OF ASYMPTOTIC AND CONVERGENT SERIES
LAMS-2975 N64-10188 01-20

ANALYSIS OF RADAR RETURN PULSES BY APPLICATION OF COVARIANCE & POWER SPECTRAL DENSITY FUNCTIONS AND BY FOURIER & CONJUGATE TRANSFORM
SRI-MR-5 N64-13594 05-20

ELASTIC STRESS DISTRIBUTION IN THIN, FINITE-WIDTH ORTHOTROPIC PLATES WITH CENTRAL CRACKS - SOLUTION BY USE OF FINITE FOURIER TRANSFORMS
NASA-TN-D-2260 N64-17161 09-33

NUMERICAL CALCULATION OF FOURIER INTEGRALS BY LINEAR INTERPOLATION
SUFFIELD-TN-121 N64-25275 17-20

FAR INFRARED HIGH RESOLUTION FOURIER TRANSFORM INTERFEROMETRY N64-29480 21-23

FOURIER TRANSFORM AND MATRIX METHOD COMPUTATIONS OF TIME RESPONSE FOR ELASTIC LAYERED MEDIA
AFCRL-64-503 N64-31630 23-12

FOURIER TRANSFORM METHOD FOR CALCULATING NEUTRON AGE VALUES FOR HOMOGENEOUS, NONMULTIPLYING MEDIUM
GA/PHYS/63-7 N64-31918 23-23

BISPECTRUM AS PHENOMENA OF NONLINEAR CHARACTER IN HIGHER ORDER THEORY - FOURIER TRANSFORM
TR-13 N64-33088 24-23

FRACTIONATION
DEGREE OF FRACTIONATION AND RADIONUCLIDE PARTITION FOR NUCLEAR DEBRIS
USNRDL-TR-680 N64-12257 03-23

EFFECT OF RADIONUCLIDE FRACTIONATION ON EXPOSURE DOSE RATE FROM FALLOUT
USNRDL-TR-715 N64-17785 09-23

COLUMN ELUTION FRACTIONATION & THERMAL DEGRADATION OF POLYOXYPROPYLENE GLYCOL-TOLUENE DIISOCYANATE POLYMERS
NASA-CR-53993 N64-20609 13-07

FREE STREAM FRACTIONATION OF CELLS IN RAT BONE MARROW N64-22857 16-16

VAPOR PRESSURE & FRACTIONATION OF TEKTITE MELTS
NASA-TN-D-1084 N64-30091 21-12

FRACTOGRAPHY
CF METALLURGY
FRACTURE DEFORMATION OF UNALLOYED ALPHA PLUTONIUM - ELECTRON MICROFRACTOGRAPHY
HW-79846 N64-15837 07-18

ELECTRON MICROSCOPIC FRACTOGRAPHIC STUDIES OF ALUMINUM ALLOYS
DMIC-MEMO-186 N64-16696 08-33

ELECTRON FRACTOGRAPHY - QUASI-CLEAVAGE & FRACTURE
NRL-MEMO-1432, PT. 12 N64-17618 09-25

ELECTRON-MICROSCOPIC FRACTOGRAPHIC STUDY OF INTERGRANULAR FRACTURE IN HIGH STRENGTH STEELS
DMIC-MEMO-187 N64-18596 11-18

FRACTURE
CF MECHANICAL PROPERTY
THEORY OF CRACK INITIATION IN BRITTLE FRACTURE OF CRYSTAL
JPRS-17578 N64-10479 01-25

EFFECT OF DISLOCATIONS & VACANCIES ON FATIGUE, BRITTLE FRACTURE, PLASTIC PROPERTIES, AND HEAT RESISTANCE OF METALS
JPRS-18817 N64-10789 02-18

CONFIRMATION OF BRITTLE FRACTURE THEORY BY OBSERVATION OF DISLOCATIONS IN CAST AND DEFORMED CHROMIUM SPECIMENS N64-10793 02-18

ELECTRON MICROPHOTOGRAPHIC STUDY OF BRITTLE FRACTURE & FAILURE PROCESS IN STEEL AND IRON N64-11147 02-18

TEMPERATURE EFFECT ON DELAYED FRACTURE OF ALUMINUM ALLOY IN PRESENCE OF LIQUID ZINC AMALGAM
FA-R-1695 N64-12652 04-18

UNIDIRECTIONALLY SOLIDIFIED BINARY EUTECTIC ALLOYS - SOLIDIFICATION AND TESTING PROCEDURES, MECHANICAL PROPERTIES AND FRACTURE MECHANISMS
B-910068-4 N64-13125 04-18

MECHANICAL PROPERTIES OF SOLIDS, WAVE PROPAGATION & STRUCTURAL RESPONSE, HYPERVELOCITY IMPACT, AND FRACTURE
ASD-TDR-63-140 N64-13431 05-01

FRACTURE DUE TO TENSION FIELD N64-13443 05-25

FRACTURE - UNSTABLE PROGRESSIVE CRACK EXTENSION AT NORMAL SPEEDS OF STRESS APPLICATION N64-13444 05-25

TIME DEPENDENT FRACTURE - RUPTURE OF SOLIDS N64-13445 05-25

SPALL THRESHOLDS IN COPPER IN RELATION TO STRESS-TIME IN FAILURE REGION & METHOD OF INDUCING SHOCK WAVES N64-13446 05-25

LABORATORY FRACTURE TEST CRITERIA - APPLICATION TO PRESSURE VESSEL DESIGN
NRL-6030 N64-13840 05-34

LOW STRESS BRITTLE FRACTURE IN MILD STEEL
SSC-158 N64-14800 06-18

DISLOCATION THEORY OF BRITTLE FRACTURE IN METALS WITH BODY-CENTERED CUBIC AND HEXAGONAL LATTICES N64-16124 08-25

METALLOGRAPHIC AND FRACTURE STUDIES OF INFILTRATED TUNGSTEN NOZZLE INSERTS N64-16593 08-27

MATERIAL FRACTURE AT HIGH STRENGTH LEVELS
ASD-TDR-63-819, PT. 1 N64-16848 08-18

BRITTLE FRACTURE IN METALS UNDER CREEP CONDITIONS N64-17062 09-18

TENSILE FRACTURE, MICROSTRUCTURE, AND CHEMICAL COMPOSITION OF URANIUM
BNI-1664 N64-17298 09-18

FRACTURE CHARACTERISTICS OF STRUCTURAL METALS
ER-5426 N64-17303 09-18

VELOCITY OF SHEAR FRACTURE PROPAGATION - SEISMOLOGY N64-18110 10-23

RESISTANCE TO BRITTLE FRACTURE OF NOTCHED SHIP HULL STEEL IN HEAVY SECTIONS - GEOMETRIC FACTOR SSC-160 N64-19733 12-33

HYPERVELOCITY IMPACT ON TRANSPARENT PLASTICS - PROJECTILE CRATERING, SHOCK WAVES, & FRACTURING AEDC-TDR-64-49 N64-20035 13-23

TRANSGRANULAR AND INTERGRANULAR SURFACE FRACTURE OF METALS & ALLOYS - ELECTRON MICROSCOPY D1-82-0169-RI N64-20275 13-23

ELECTRON MICROSCOPE INVESTIGATION OF FRACTURE SURFACES IN POWDER METALLURGICAL SPECIMENS N64-22174 15-18

TEMPERATURE EFFECT ON FRACTURE STRENGTH OF TITANIUM-ALUMINUM-VANADIUM ALLOY SHEET SM-44640 N64-22973 16-18

EFFECT OF HYDROGEN ON HIGH TEMPERATURE FLOW AND FRACTURE CHARACTERISTICS OF METALS ORNL-3600 N64-23015 16-18

PLASTIC ZONE IN FRACTURE OF MARAGING STEEL N64-24356 17-18

FRACTURE PROBABILITIES IN NONUNIFORMLY STRESSED BRITTLE MATERIALS AD-437664 N64-25336 17-33

RELATIONSHIP OF TWINNING TO BRITTLE FRACTURE IN REFRACTORY METALS - MOLYBDENUM-RHENIUM ALLOY ASD-TDR-63-360, PT. II N64-26218 18-18

MECHANICAL PROPERTIES AND FRACTURE MODES OF PYROLYTIC GRAPHITE R64SD39 N64-26272 18-19

EFFECT OF NUCLEATION OF SLIP SURFACE ON FLOW AND FRACTURE OF BERYLLIUM NASA-CR-56314 N64-27393 19-18

HIGH TEMPERATURE DEFORMATION AND FRACTURE BEHAVIOR OF METALS UNDER HIGH STRAIN RATE CONDITIONS PR-5 N64-27680 19-18

MECHANICAL PROPERTIES OF BORON - FRACTURE AND CRACK PROPAGATION HR-64-266 N64-27699 19-18

TENSILE STRESS FIELDS DUE TO HOLES SUPERIMPOSED BY EXTERNAL NOTCHES, AND INVESTIGATED BY PHOTOELASTIC AND TENSILE FRACTURE TESTS ML-TDR-64-144 N64-28543 20-33

SLOW NOTCH BEND AND IMPACT TESTS FOR FRACTURE BEHAVIOR STUDIES OF ZIRCALOY 2 HW-82631 N64-28660 20-33

TESTING SYSTEM STIFFNESS EFFECTS ON FRACTURE OF CRACKED SHEET SPECIMENS ML-TDR-64-150 N64-29937 21-18

CRACK FORMATION AND FRACTURE IN ALUMINUM-SILICON ALLOYS TR-8 N64-32028 23-18

HIGH TEMPERATURE DEFORMATION AND FRACTURE OF METALS AT HIGH STRAIN RATE PR-2 N64-32279 23-18

TEST PROCEDURES, FRACTURE INITIATION, FABRICATION, AND MATERIAL CONSIDERATIONS OF HIGH PRESSURE VESSELS RSIC-173 N64-32616 23-17

DUCTILITY EXHAUSTION AND STATIC BRITTLE FRACTURE OF STEEL FROM PRESTRAIN AND AGING SSC-162 N64-32664 23-18

TRANSITION FROM DUCTILE FLOW TO BRITTLE FRACTURE BEHAVIOR IN MODERATELY HIGH STRENGTH STEELS MEASURED BY REVERSE BEND METHOD AD-444554 N64-33367 24-18

FRACTURE MECHANICS

CRITICAL DISLOCATION DENSITY NEAR GRAIN BOUNDARY OF METAL ASSOCIATED WITH FATIGUE FRACTURE - IRON ALLOYS N64-10790 02-18

EFFECT OF WATER & WATER VAPOR IN STABLE CRACK EXTENSION AND DELAYED FRACTURE IN HIGH STRENGTH STEEL NRL-TM-240 N64-12077 03-18

LOW CYCLE FATIGUE FAILURE OF PRESSURE VESSELS - APPLICATION OF FRACTURE MECHANICS DATA AD-422404 N64-13606 05-18

UNIFORMLY MOVING DISLOCATIONS IN ISOTROPIC MEDIA - FRACTURE MECHANICS RAC-1699 N64-13841 04-25

SYNTHESIS OF HIGH PURITY BERYLLIUM AND ITS DEFORMATION AND FRACTURE CHARACTERISTICS Q-B2089-3 N64-13973 05-18

ELASTIC STRESS DISTRIBUTION IN THIN, FINITE-WIDTH ORTHOTROPIC PLATES WITH CENTRAL CRACKS - SOLUTION BY USE OF FINITE FOURIER TRANSFORMS NASA-TN-D-2260 N64-17161 09-33

STRUCTURAL FATIGUE, CRACK PROPAGATION, AND FRACTURE STUDIES PUBL.-141 N64-17547 09-02

BRITTLE FRACTURE OF CERAMICS SSD-TDR-63-382 N64-17614 09-25

ELECTRON FRACTOGRAPHY - QUASI-CLEAVAGE & FRACTURE NRL-MEMO-1432, PT. 12 N64-17618 09-25

OBTAINING FRACTURING INFORMATION BY USE OF RADIOISOTOPES N64-18799 11-23

STRESSES IN ROCK JOINTS AND FRACTURE DIRECTION ORIENTATIONS BM-RI-6413 N64-19284 11-12

CRACK PROPAGATION RATES AND PLASTIC FLOW IN THEORY OF FRACTURE MECHANICS RTD-TDR-63-3102 N64-21395 14-19

LOW CYCLE FATIGUE FAILURES STUDY USING APPLIED FRACTURE MECHANICS D2-23141 N64-21440 14-33

BRITTLE FRACTURE PROPAGATION - BRANCHING, FRACTURE SURFACE APPEARANCE, & STRESS WAVE INFLUENCE N64-21726 15-33

FLOW AND FRACTURE MICROMECHANICS IN HIGH STRENGTH STEELS AND TITANIUM ALLOYS ML-TDR-64-182 N64-33373 24-18

FRACTURE TOUGHNESS

PLANE STRAIN FRACTURE TOUGHNESS OF QUENCHED AND TEMPERED STEEL WAL-TR-310.24/5-4 N64-10245 01-18

FRACTURE TOUGHNESS DETERMINATION OF ADHESIVE ALUMINUM-EPOXY-ALUMINUM JOINTS MRL-TM-241 PT. 1 N64-11803 03-33

FRACTURE TOUGHNESS AND FLAW DETECTION OF HETEROGENEOUS JOINTS N64-11804 03-33

FRACTURE TOUGHNESS OF NICKEL TYPE MARAGING STEEL DMIC MEMO-181 N64-12310 03-18

HIGH STRENGTH AND FRACTURE TOUGHNESS IN STEELS DEVELOPED THROUGH STRAIN-INDUCED TRANSFORMATIONS WAL-TR-323.4/2-1 N64-12363 03-18

HIGH STRENGTH AND FRACTURE TOUGHNESS IN STEEL THROUGH STRAIN-INDUCED TRANSFORMATION WAL TR-323.4/2-31 N64-13868 05-18

DIRECT READING DERIVATIVE SPECTROMETER AND FRACTURE TOUGHNESS OF METALS - NRL PROJECTS N64-17217 09-01

FRACTURE TOUGHNESS OF METALS N64-17219 09-18

EVALUATION OF HIGH STRENGTH MATERIALS FOR NOTCH SENSITIVITY AND FRACTURE
AD-432871 N64-17737 09-18

INTERMITTENT CREEP AND STABILITY TEST OF EXPOSURE TO HIGH TEMPERATURE, AND FRACTURE TOUGHNESS
FPR-007/4/ N64-19159 11-18

FRACTURE TOUGHNESS OF STRUCTURAL STEEL IN LARGE SECTIONS
FGT-3064 N64-20042 13-18

PLANE STRAIN FRACTURE TOUGHNESS OF STEEL SPECIMENS HEAT TREATED TO 220-240 AND 260-280 KSI STRENGTHS
FTDH-3178 N64-20061 13-18

FRACTURE TOUGHNESS IN HIGH STRENGTH 4335-V STEEL
ASD-TDR-62-868, PT. 2 N64-20085 13-18

STRENGTH AND FRACTURE TOUGHNESS OF NICKEL-COBALT MOLYBDENUM MARAGING STEEL FOR HEAVY AND THIN WALL ROCKET MOTOR CASES
REPT.-3448 N64-21984 15-18

PLANE STRAIN FRACTURE TOUGHNESS OF MARAGING STEEL
N64-24355 17-33

TENSILE STRENGTH AND FRACTURE TOUGHNESS TESTS OF 18 PERCENT NICKEL MARAGING STEEL
N64-24359 17-18

FRACTURE TOUGHNESS OF 18 PERCENT NICKEL MARAGING STEEL N64-24361 17-18

ORIENTATION DEPENDENCE OF TENSILE STRENGTH AND FRACTURE TOUGHNESS OF 25 PERCENT NICKEL MARAGING STEEL PREPARED BY UNIDIRECTIONAL SOLIDIFICATION
N64-24364 17-18

FRACTURE TOUGHNESS AND STRESS CORROSION OF 9 PERCENT AND 18 PERCENT NICKEL MARAGING STEELS AND OTHER HIGH STRENGTH STEELS N64-24367 17-33

TEST METHODS FOR NOTCH STRENGTH AND FRACTURE TOUGHNESS OF SHEET METALS AND ALLOYS
AMRA-TR-64-04 N64-25329 17-18

FRACTURE TOUGHNESS TESTING
NASA-TM-X-52030 N64-25908 18-33

EFFECT OF CRACK SHAPE ON FRACTURE TOUGHNESS OF MARAGING STEEL
SM-44671 N64-27370 19-18

SECTION SIZE INFLUENCE ON MECHANICAL PROPERTIES AND FRACTURE TOUGHNESS OF 7075-T6 ALUMINUM, 6A1-6V-2SN TITANIUM, AND AISI 4340 STEEL
ARMA-TR-64-05 N64-27952 20-18

MECHANICAL AND MICROMECHANICAL PROPERTIES OF BORON - THERMAL STRESS AND FRACTURE STRENGTH MEASUREMENTS
IR-3 N64-30601 22-25

NOTCH SENSITIVITY OF REFRACTORY METALS - FRACTURE TOUGHNESS AND CRACK PROPAGATION IN MOLYBDENUM AND NIOBIUM ALLOYS
BPR-1 N64-32439 23-18

FRACTURE TOUGHNESS, FATIGUE-CRACK PROPAGATION, AND CORROSION CHARACTERISTICS OF ALUMINUM ALLOY PLATES FOR WING SKINS
AD-447686 N64-32546 23-18

FRAGMENTATION
CF PENETRATION
CONTAINMENT OF FRAGMENTS FROM RUNAWAY REACTOR - PROJECTILE PENETRATION ENERGY
SRIA-113 N64-10272 01-23

FRAGMENTATION OF HEAVY COSMIC RAY NUCLEI IN LIGHT ELEMENTS N64-10362 01-28

DOUBLE-OVEN EXPERIMENT ON FRAGMENTATION PATTERN OF LITHIUM FLUORIDE N64-18815 11-07

MICROCRATERS IN RECOVERED FRAGMENTS FROM MERCURY ATLAS LAUNCH VEHICLES
WL-TDR-64-39 N64-29327 21-31

CRYSTAL STRUCTURE AND FRAGMENTATION IN STEEL FROM FATIGUE TEST X-RAY ANALYSIS N64-32845 24-18

FRAME
S GRID

FRAMING CAMERA
DUAL-BEAM POLARISCOPE FOR OBTAINING PHOTOELASTIC STRESS PATTERNS FOR USE WITH HIGH-SPEED FRAMING CAMERA
A-64-14 N64-31659 23-15

FRANCE
MISSILE TEST RANGES IN FRANCE N64-22872 16-01

FRAUNHOFER LINE
INTENSITIES OF STRONG FRAUNHOFER LINES IN SOLAR SPECTRUM N64-31754 23-28

IRON ABUNDANCE FROM FAINT FRAUNHOFER LINES
N64-33696 24-05

FREDHOLM INTEGRAL EQUATION
NEUTRON SCATTERING IN FREDHOLM INTEGRAL EQUATIONS FOR TRANSPORT SOLUTION OF MONOENERGETIC CRITICAL PROBLEMS
ANL-6787 N64-11790 03-27

FREE FALL
HUMAN SURVIVABILITY OF EXTREME IMPACTS IN FREE FALL
CARI-63-15 N64-11995 03-16

BEHAVIOR OF LIQUIDS IN PERIODS OF WEIGHTLESSNESS DURING FREE-FALL TESTS, USING MERCURY OR WATER IN TEFLON CONTAINER
JPRS-23259 N64-14996 06-29

FREE FLIGHT
COMPUTER PROGRAM FOR CALCULATING WIND COMPENSATION FOR MISSILES IN FREE FLIGHT
SWC-TDR-63-67 N64-15078 07-22

BASE FLOW CLOSURE ANGLE DATA FROM PHOTOGRAPHS OF POINTED CONES IN FREE FLIGHT
EOS-RN-21 N64-15958 07-02

SMALL-AMPLITUDE FORCED OSCILLATION TECHNIQUE FOR DETERMINING DAMPING AND OSCILLATORY STABILITY IN ROLL, PITCH, AND YAW IN FREE FLIGHT
N64-17016 09-30

CONVECTIVE HEAT TRANSFER DATA FROM FREE FLIGHT IN WIND TUNNELS N64-17017 09-13

FREE FLIGHT DYNAMIC DAMPING OF AXISYMMETRIC BODY
NASA-CR-53366 N64-17819 09-02

FREE FLIGHT TESTS OF SUBLIMING ABLATORS AND TRANSPIRATION COOLING AS THERMAL PROTECTION AT HYPERSONIC SPEEDS N64-20295 13-13

FREE FLIGHT MEASUREMENTS OF HYPERSONIC FLOW AROUND ABLATING AND NONABLATING SPHERES, SPHERE-CAPPED CYLINDERS, AND CONES
GTR-63-224 N64-21170 14-02

ATMOSPHERIC FLIGHT MECHANICS STUDIES USING FREE FLIGHT TESTING IN CONVENTIONAL WIND TUNNEL
AIAA PAPER-64-476 N64-25360 17-02

FREE FLIGHT STUDY OF RADIO-CONTROLLED PARAWING MODEL TO DETERMINE DYNAMIC STABILITY AND CONTROL
NASA-TN-D-2291 N64-25807 17-04

HIGH VELOCITY GUNS FOR FREE FLIGHT RANGES
N64-26145 18-02

HEAT-TRANSFER RATES AND ABLATION ON BLUNT FLARED CYLINDER IN FREE FLIGHT AT HYPERSONIC AND LOWER SPEEDS
NASA-TN-D-2383 N64-27505 19-13

FREE FLIGHT MOUNTING SYSTEM FOR HIGH SPEED WIND TUNNEL FLUTTER TESTING OF DYNAMIC MODELS
N64-29257 21-33

CALIBRATION OF RADIOMETERS USED ON HYPERSONIC FREE

FLIGHT RANGES
CARDE-TR-500/64 N64-29394 21-15

NONEQUILIBRIUM RADIATION FROM STAGNATION REGION OF HYPERVELOCITY PROJECTILES IN FREE FLIGHT
TR-64-026 N64-31115 22-11

FREE-FLIGHT BOUNDARY-LAYER AERODYNAMIC NOISE MEASUREMENTS
AGARD-467 N64-32386 23-11

MEASUREMENT OF BASE PRESSURE IN FREE FLIGHT
FTD-TT-64-373/1&2 N64-33936 24-02

FREE FLOW
S FREE MOLECULAR FLOW

FREE MOLECULAR FLOW
MOLECULAR DISTRIBUTION UNDER FREE MOLECULAR FLOW CONDITIONS WITHIN SURFACES OF SIMPLE GEOMETRIES
NASA-TM-X-51032 N64-10107 01-23

FREE MOLECULAR FLOW CHARACTERISTICS OF CONCAVE SURFACES
COA-N-155 N64-11388 02-23

PRESSURE MEASUREMENTS IN TRANSITION AND FREE MOLECULAR FLOWS USING ORIFICE PROBES
ARL-63-222 N64-15082 07-23

HIGH VELOCITY RATIO NEAR FREE MOLECULAR FLOW PAST NARROW STRIP
AD-430100 N64-16465 08-23

FREE MOLECULAR FLOW OF RAREFIED GAS PAST CYLINDRICAL BODIES N64-16599 08-23

NUMERICAL SOLUTIONS OF FREE MOLECULAR FLOW IN CONVERGING AND DIVERGING TUBES AND SLOTS
NASA-TN-D-2330 N64-21271 14-02

KINETIC THEORY OF FREE MOLECULAR FLOW OF NEUTRAL GASES AND MECHANICS OF HIGHLY RAREFIED PLASMAS
UTIAS-18 N64-24864 17-24

CESIUM VAPOR EFFLUX PATTERNS AND FLOW RATES FROM CYLINDRICAL TUBES DETERMINED IN FREE MOLECULE AND SLIP FLOW REGIMES
NASA-TN-D-2480 N64-28652 20-11

FRICTION RESISTANCE OF FLAT PLATE AT ZERO ANGLE OF ATTACK IN REGION BETWEEN CONTINUUM AND FREE MOLECULAR FLOW
FTD-MT-63-83/1&2&3&4 N64-30542 22-17

FLUX PATTERNS FROM FREE MOLECULAR GAS FLOW THROUGH CONVERGING AND DIVERGING SLOTS
NASA-TN-D-1864 N64-30996 22-11

EXPERIMENTAL AND THEORETICAL EXTENSIONS OF NEAR FREE MOLECULAR FLOW - DRAG FORCE MEASUREMENT PROGRAM
AS-64-11 N64-32219 23-11

FLOW AND HEAT TRANSFER BETWEEN HEATED PLATES OF FINITE LENGTH IN FREE MOLECULE FLOW ENVIRONMENTS
NASA-TN-D-2209 N64-32837 24-11

FREE RADICAL
CF ION
FREE RADICALS IN RAT LIVER LIPIDS & ELECTRON PARAMAGNETIC RESONANCE SIGNALS FROM LIGHT IN CRYSTALLINE CHLOROPHYLL & ITS INFRARED SPECTRA
JPRS-18213 N64-10572 01-07

PROTEIN SULFUR COMPOUNDS AND SPIN-LATTICE INTERACTION WITH FREE RADICALS
JPRS-21992 N64-10853 02-01

INTERACTION OF FREE RADICAL FROM INHIBITORS OF ENZYMES WITH PROTEIN SULFUR COMPOUNDS N64-10854 02-16

ELECTRON PARAMAGNETIC RESONANCE IN SOLID SUPER-COOLED SOLUTION OF FREE RADICALS N64-10855 02-25

ELECTRON SPIN RESONANCE STUDY OF FREE RADICALS PRODUCED DURING COBALT-60 GAMMA IRRADIATION OF ACETONITRILE
ASD-TDR-63-785 N64-11924 03-23

EYE MELANIN FREE-RADICAL KINETICS & MECHANISM IN RELATION TO ADSORPTION OF OXYGEN BY SEMICONDUCTORS
NADC-MA-6320 N64-12597 04-09

SENSITIZATION OF TUMOR CELLS TO ACTION OF IONIZING RADIATION BY RADICAL-REACTION INHIBITORS N64-12896 04-14

REACTION OF IRRADIATED PROTEIN RADICALS WITH RADICAL-REACTION INHIBITORS N64-12897 04-16

CHEMICAL KINETICS AND GAS DYNAMICS OF ATOM AND FREE-RADICAL REACTIONS - SQUID PROJECT N64-13488 05-24

PROPERTIES OF GAS PHASE FREE RADICALS AND DEVELOPMENT OF MOLECULAR BEAM REACTOR
AD-412955 N64-17868 10-23

CHEMICAL KINETICS AND GAS DYNAMICS OF ATOM AND FREE RADICAL REACTIONS N64-18862 11-24

BOMBARDMENT AND IRRADIATION PRODUCTION METHODS FOR OXYGEN-FLUORIDE RADICALS
AD-437465 N64-20186 13-07

ENERGY GAP MEASUREMENTS FOR ORGANIC FREE RADICAL CONDUCTIVITY STUDY
AD-440814 N64-21366 14-25

RADIATION DECOMPOSITION OF SEVERAL AROMATIC HYDROCARBONS & FREE RADICALS
USNRDL-TR-718 N64-21806 15-07

SEMIQUINONE FREE RADICALS IN SYSTEMS MODELLING BIOLOGICAL OXIDATION N64-28036 20-16

ELECTRON SPIN MAGNETIC RESONANCE IN FREE RADICALS PRODUCED BY GAMMA IRRADIATION OF HYDROCARBONS
NARF-63-4T N64-28905 20-07

FREE SPACE
ADMITTANCE & VOLTAGE DISTRIBUTION FOR RECTANGULAR CAVITY OR WAVEGUIDE-BACKED SLOT ANTENNA COVERED BY FINITE PLASMA LAYER RADIATING INTO FREE SPACE
AFCRL-63-393 N64-14199 06-24

FREEDOM OF OUTER SPACE, BOUNDARY BETWEEN NATIONALLY CONTROLLED AIRSPACE AND FREE SPACE, AND PROBLEMS OF CONTROL, SOVEREIGNTY, & JURISDICTION N64-21139 14-01

ONE-MAN PROPULSION DEVICE FOR LUNAR AND FREE SPACE ENVIRONMENTS
NASA-CR-58172 N64-26579 18-27

PRELIMINARY DESIGN OF ONE MAN PROPULSION DEVICE FOR LUNAR AND FREE SPACE ENVIRONMENTS
NASA-CR-58169 N64-27897 20-27

FREE STREAM
GENERALIZED GREEN THEOREM & GREEN FUNCTIONS APPLICABLE TO NONEQUILIBRIUM EQUATION FOR FREE STREAM ANALYSIS
COA-AERO-163 N64-11387 02-11

PLANE, STEADY, TURBULENT WALL JET IN MOVING FREE STREAM
ME-937-6309F N64-15599 07-11

TWO-DIMENSIONAL, TURBULENT WALL JET WITH & WITHOUT EXTERNAL FREE STREAM
AD-406073 N64-15703 07-11

HIGH VELOCITY RATIO NEAR FREE MOLECULAR FLOW PAST NARROW STRIP - KINETIC EQUATIONS
R63SD81 N64-18076 10-02

FREE-STREAM TURBULENCE IN SOME LOW-SPEED TUNNELS
ARC-R&M-3317 N64-21477 14-10

PENETRATION DISTANCE OF RETROROCKET EXHAUST PLUMES INTO ONCOMING FREE STREAM
SSD-TDR-64-23 N64-22319 15-27

FREE STREAM FRACTIONATION OF CELLS IN RAT BONE

MARROW N64-22857 16-16

LATERAL INTERACTION OF JET AND FREE STREAM AT SUPERSONIC SPEEDS AND USE IN REACTION CONTROL
ADR-01-07-63.2 N64-25919 18-02

MEASURING FREE STREAM AIR DENSITY BY X-RAY SCATTERING
FDL-TDR-64-29 N64-27701 19-21

FREE STREAM EFFECT
BOUNDARY LAYER TRANSITION - FREE STREAM TURBULENCE AND PRESSURE GRADIENT EFFECTS
SID-63-390 N64-16839 08-11

EFFECTS OF CONTROLLED SURFACE ROUGHNESS AND FREE STREAM TURBULENCE ON BOUNDARY LAYER TRANSITION
SID-64-546 N64-21250 14-11

FREE VIBRATION
FREE VIBRATIONS OF PRESTRESSED TOROIDAL MEMBRANE
NASA-CR-58532 N64-29556 21-33

ELLIPTICAL RADIATION FURNACE APPARATUS FOR DETERMINATION OF DYNAMIC YOUNG MODULUS AND INTERNAL FRICTION UTILIZING TRANSVERSE FREE VIBRATION IN VACUUM
DNS-63-17 N64-31690 23-25

MOTION EQUATIONS FOR FREE VIBRATIONS OF ELASTIC BEAM WITH FOIL SHAPED APPENDAGE
R-1022 N64-32211 23-33

FREEZING
WATER RECOVERY FROM URINE BY FREEZE DRYING PROCESS USING MICROWAVE ENERGY SOURCE
AMRL-TDR-63-130 N64-18789 11-16

INTERNAL FRICTION OF ICE AND FROZEN HEAVY WATER
N64-23898 16-13

EVAPORATIVE COOLING AND FREEZING OF LIQUIDS IN VACUUM
NASA-RP-249 N64-26589 18-13

FREEZING POINT
INSTRUMENTATION FOR MEASURING FREEZING POINTS OF URANIUM HEXAFLUORIDE-HYDROGEN FLUORIDE SAMPLES
K-1590 N64-17530 09-15

FREEZING AND MELTING POINTS OF BINARY IRON BASE ALLOYS
ARL-63-11 N64-18702 11-18

FREEZING POINT STUDY OF SINGLE COMPONENT NONEQUILIBRIUM NOZZLE FLOW
RM-143 N64-27783 19-02

FREQUENCY
SA AUDIOFREQUENCY
SA CYCLOTRON FREQUENCY
SA HIGH FREQUENCY
SA INFRASONIC FREQUENCY
SA LOW FREQUENCY
SA MICROWAVE FREQUENCY
SA NATURAL FREQUENCY
SA OSCILLATION FREQUENCY
SA PLASMA FREQUENCY
SA RADIO FREQUENCY
SA ULTRAHIGH FREQUENCY
KILOCYCLE VALUE EXTRAPOLATION OF SECONDARY CAPACITANCE STANDARDS TO HIGHER FREQUENCIES
NBS-TN-201 N64-10410 01-09

GROUP FREQUENCY STANDARD QUARTZ CLOCK VARIATION AND PERTURBATION - RELATION OF EARTH ROTATIONAL IRREGULARITY AND CLOCK AGING
FTD-TT-63-542/1&2 N64-12342 03-12

INFORMATION REMOVED FROM SOURCE DUE TO FLUCTUATION NOISES PRESENT IN RECEIVER WITH UNIFORM FREQUENCY SPECTRUM - CYBERNETICS N64-12457 04-08

FREQUENCY STABILITY OF HELIUM-NEON MASERS - LENGTH MEASUREMENT N64-13912 05-25

CIRCUITRY OF LOW FREQUENCY BLOCKS AND UNITS OF CONTINUOUS WAVE RADARS N64-15141 07-08

DATA FILTERING USED TO IMPROVE FREQUENCY RESPONSE
N64-15319 07-20

FREQUENCY RESPONSE OF HUMAN SEMICIRCULAR CANALS TO ANGULAR ACCELERATION USING NYSTAGMUS TRANSITION TECHNIQUE
NASA-CR-55624 N64-15540 07-16

TUNABLE FILTER EMPLOYING NUCLEAR MAGNETIC RESONANCE
RADC-TDR-63-526 N64-15822 07-18

ELECTRONIC COMPENSATOR DESIGNED TO EXTEND USABLE FREQUENCY RANGE OF TRANSDUCER SYSTEM
N64-16244 08-08

FREQUENCY SPECTRUM OF HIGH RESOLUTION RADIO INTERFEROMETERS FOR PROCESSING RADIO ASTRONOMY OBSERVATIONS OF RADIO BRIGHTNESS DISTRIBUTION
AID-T-64-14 N64-17621 09-08

FREQUENCY RESPONSE FUNCTIONS & COHERENCE FUNCTIONS FOR MULTIPLE INPUT LINEAR SYSTEMS
NASA-CR-32 N64-17989 10-20

FREQUENCY RANGES FOR EXISTENCE OF WAVES IN COLD, COLLISIONLESS, HYDROGEN PLASMA
NASA-TN-D-2273 N64-18737 11-24

FREQUENCY CHECK, VECTOR VERIFICATION, & ELECTRON DENSITY MAP
AD-434155 N64-18777 11-25

FREQUENCY STABILIZATION OF ASTABLE MULTIVIBRATORS AGAINST TEMPERATURE AND POWER SUPPLY VOLTAGE VARIATIONS
TR-1186 N64-19117 11-09

DUAL-FREQUENCY WEATHER RADAR SYSTEM FOR STUDYING MORPHOLOGY OF SUBTROPICAL PRECIPITATION
N64-19297 11-21

CRYSTAL AND ATOMIC CLOCK FREQUENCY STANDARDS FOR AIR NAVIGATION
TR-0373 N64-20493 13-15

INTERFERENCE SPECTRUM ANALYZER WITH AUTOMATIC FREQUENCY SCANNING AND DATA RECORDING
N64-22844 16-09

FREQUENCY RESPONSE OF HYDROELECTRIC TURBINE
N64-23894 16-09

THERMOELECTRIC CONTROL IN FREQUENCY STANDARD
IDR-12 N64-26280 18-23

MINIMUM POWER DENSITY AND FREQUENCY RESPONSE RATIO FOR SEMICONDUCTOR TRIODE AMPLIFIER
N64-26440 18-09

PRIMARY FREQUENCY STANDARD COMPARISON SYSTEM FOR CRYSTAL UNITS
AD-602172 N64-29685 21-08

WIEN-BRIDGE OSCILLATOR AS LOW-FREQUENCY STANDARD
HDL-TR-1112 N64-29809 21-09

IMPROVING FREQUENCY PRECISION AND STABILITY OF 5 MC SINGLE SIDEBAND QUARTZ CRYSTALS
REPT.-3 N64-29861 21-25

STANDARD TIME SIGNAL AND FREQUENCY STANDARD TRANSMISSION IN USSR
ATD-P-64-48 N64-30010 21-15

DIODE CLIPPING CIRCUITS AND FREQUENCY DIVERSITY CIRCUIT TO PROVIDE INTERFERENCE REJECTION CAPABILITY FOR RIOMETER
REPT.-191-1 N64-30160 21-15

FREQUENCY RESPONSE FUNCTION IN COHERENT OPTICAL SYSTEM AND FREQUENCY SELECTION CHARACTERISTICS IN TRANSMITTING OPTICAL INFORMATION
E-T-CH-63-4 N64-31170 22-23

TRANSISTORIZED QUARTZ-CRYSTAL FREQUENCY STANDARD AND SYSTEM OF FREQUENCY DIVIDERS AND MULTIPLIERS
JPRS-27110 N64-33959 24-09

FREQUENCY AMPLIFIER
THIN-FILM LOG INTERMEDIATE FREQUENCY AMPLIFIER
N64-16159 08-09

CONVERTER TO TEST TELEVISION INTERMEDIATE FREQUENCY SOUND AMPLIFIER
BI-031 N64-26564 18-09

FREQUENCY ANALYSIS
SA OSCILLOSCOPE
FREQUENCY CHARACTERISTICS OF TWO COUPLED CIRCUITS WITH VARIABLE CAPACITANCE IN ONE CIRCUIT
N64-12738 04-09

NAVIGATION SYSTEM USING HIGH ACCURACY FREQUENCY STANDARD IN AIRCRAFT N64-15151 07-22

FREQUENCY ANALYSIS OF MACHINE INSTRUCTIONS IN COMPUTER PROGRAM SYSTEMS
TM-1603 N64-33503 24-20

FREQUENCY ASSIGNMENT
OPERATING FREQUENCY FOR MULTIPLE AIRBORNE TARGET TRAJECTORY SYSTEM - DATA TELEMETRY
ATL-TDR-64-38 N64-29014 20-08

FREQUENCY ASSIGNMENT OF TELEMETRY TRANSMITTERS FOR MINIMUM RADIO INTERFERENCE OPERATION
FNA-TM-13-9-63-T N64-31325 22-08

FREQUENCY ASSIGNMENT FOR REDUCTION OF RADIO INTERFERENCE - ELECTROMAGNETIC COMPATIBILITY
USAELRDL-TR-2381 N64-32449 23-08

ELECTROMAGNETIC WAVE COMPATIBILITY & EFFICIENCY, OF FREQUENCY ASSIGNMENT PLAN FOR LIMITING SPURIOUS INTERFERENCE
USAELRDL-TR-2377 N64-33527 24-08

FREQUENCY BAND
SA C-BAND
SA J-BAND
SA K-BAND
SA KA-BAND
SA L-BAND
SA RADIO FREQUENCY
SA S-BAND
MOTION OF RADAR TARGET AND MINIMUM ATTAINABLE RECEIVER BANDWIDTH N64-15134 07-08

BROADBAND WAVEGUIDE POWER STABILIZER - FREQUENCY BAND ACCURACY N64-31370 23-09

AUTOMATIC SPECTRUM ANALYZERS FOR ELECTRIC SIGNALS IN INFRASONIC, SONIC, AND ULTRASONIC FREQUENCY BANDS N64-32902 24-08

SYNTHESIS OF BROADBAND VOLTAGE TRANSFORMER N64-32909 24-09

USE OF ANALOGOUS INDUCTION DEVICES AT CONJUGATE POINTS OF MIDDLE LATITUDES FOR OBSERVATIONS OF MAGNETIC MICROPULSATIONS IN FREQUENCY BAND
NASA-TT-F-8979 N64-33386 24-12

FREQUENCY CONVERTER
SOLID STATE DEVICE - FREQUENCY CONVERTER FOR L-, S-, C-, AND X-BANDS
AD-432394 N64-21396 14-08

ELECTRONICALLY TUNABLE CONVERTERS IN MILLIMETER WAVE RANGE
NASA-CR-56507 N64-23524 16-09

FREQUENCY CONVERTER UNITS FOR L-BAND, S-BAND, C-BAND, AND X-BAND
REPT.-11 N64-27413 19-09

FREQUENCY CONVERTERS FOR L-BAND, C-BAND, S-BAND, X-BAND, & KA-BAND
AD-602517 N64-29657 21-09

PHONON INTERACTIONS IN CRYSTALS - APPLICATION TO AMPLIFIERS, OSCILLATORS, AND FREQUENCY CONVERTERS OF MICROWAVE ACOUSTIC ENERGY
QTR-4 N64-30908 22-25

FREQUENCY CONVERTER UNITS FOR C-BAND, L-BAND, S-BAND, AND X-BAND
IDR-3 N64-31181 22-09

PROPERTIES OF ELECTROMECHANICAL TRANSMISSION-TYPE CONVERTERS BY LINEAR EQUATIONS AND EQUIVALENT CIRCUITS N64-31366 23-09

METHODICAL ERRORS IN DIFFERENTIAL STRING CONVERTER OF ENERGY INTO FREQUENCY N64-31864 23-23

UNIJUNCTION TRANSISTOR AS FREQUENCY CONVERTER
LFEN-NI-13/ALPHA/ N64-32346 23-09

CLASSIFICATION OF CONVERTERS OF CURVES INTO ELECTRIC SIGNALS N64-32920 24-08

FREQUENCY DISTRIBUTION
COMPUTER PROGRAM FOR MAKING FREQUENCY DISTRIBUTION TABLES
AECL-1837 N64-11655 03-20

FREQUENCY DISTRIBUTION IN BIMETALLIC ALLOY CRYSTALS - LATTICE VIBRATION
RSIC-82 N64-12205 03-18

EXTENSION OF USEFUL FREQUENCY SPECTRUM AND MICROWAVE SPECTRUM SYSTEMS IMPROVEMENT
MDL-Q5 N64-13239 04-09

FREQUENCY DISTRIBUTIONS OF ALPHA PARTICLE ENERGY LOSS PASSING THROUGH ABSORBER OF VARIABLE THICKNESS
NYO-10716 N64-16025 07-23

PRESSURE AND FREQUENCY DISTRIBUTION IN TURBULENT LAYERS ON SMOOTH SURFACES
RTD-TDR-63-4012 N64-17117 09-23

STATISTICAL FREQUENCY DISTRIBUTION OF ATMOSPHERICS N64-19688 12-12

FREQUENCY DISTRIBUTION AND DIURNAL VARIATION OF WIND TO ESTIMATE ENERGY EXTRACTABLE BY WINDMILL
TN-WP-27-63 N64-29422 21-21

FREQUENCY DISTRIBUTION OF OPTICAL SIGNAL BY ATMOSPHERIC OPTICAL DOPPLER
TM-135 N64-32766 24-08

FREQUENCY DIVIDER
SHIFT REGISTER AS COUNTDOWN TYPE OF FREQUENCY DIVIDER
NASA-CR-53207 N64-17206 09-20

FREQUENCY MEASUREMENT
MEASUREMENT OF LOW FREQUENCY FLUCTUATIONS IN REFLEX DISCHARGE
MATT-249 N64-17253 09-24

DETECTION OF FREQUENCY ERRORS IN NUCLEAR MAGNETIC RESONANCE OSCILLATOR N64-21010 14-23

MEASUREMENT INSTRUMENTS AND TRANSMISSION AT MICROWAVE FREQUENCIES N64-32917 24-09

MEASURING DISPERSIVE DOPPLER FREQUENCY WITH S-66 IONOSPHERIC BEACON SATELLITE
BRL-MR-1579 N64-33359 24-08

FREQUENCY MODULATION
CF PHASE MODULATION
CF PULSE MODULATION
DESIGN OF WIDEBAND FREQUENCY MODULATED DEMODULATOR USED AT ANDOVER FOR TELSTAR SATELLITE COMMUNICATIONS TESTS N64-10881 02-08

FREQUENCY MODULATOR WITH WIDEBAND CHARACTERISTICS SUITABLE FOR TELEPHONE CHANNELS
RAE-TRANS-1048 N64-11589 03-08

PHASE LOCK DEMODULATION OF SINUSOIDAL FM SIGNAL
TDR-269/4111/-6 N64-12190 03-08

FREQUENCY MODULATED OSCILLATIONS CONVERTED TO AMPLITUDE-FREQUENCY-MODULATED OSCILLATIONS BY DIFFERENTIATING DEVICE N64-12743 04-09

MULTIPLE CIRCULATOR OF FREQUENCY MODULATED SIGNAL IN DELAY LINE WITH FEEDBACK FOR ISOLATING SIGNAL
JPRS-22706 N64-13088 04-09

APPLICATIONS AND CALIBRATION OF FREQUENCY-MODULATED AND CONTINUOUS WAVE RADAR SYSTEMS
JPRS-23120 N64-15131 07-08

RADAR LOCATION OF SINGLE TARGET USING FREQUENCY MODULATION N64-15139 07-08

MULTIPLE HETERODYNE CIRCUITS OF FREQUENCY-MODULATED RADARS FOR SINGLE TARGET DETECTION N64-15142 07-08

SPECTRAL ANALYSIS FOR RANGE SCANNING FREQUENCY-MODULATED DISTANCE AND VELOCITY RADAR SYSTEM N64-15143 07-08

COMPARISON BETWEEN SIMULATANEOUS AND SEQUENTIAL DISTANCE-SCANNING CIRCUITS IN COHERENT-PULSE STATION WITH FREQUENCY-MODULATED RADAR N64-15144 07-08

DISTANCE MEASUREMENTS FROM AIRCRAFT TO EARTH SURFACE BY FREQUENCY-MODULATED CONTINUOUS WAVE RADIO ALTIMETER N64-15147 07-08

FREQUENCY MODULATION OF GAS LASER BY AXIAL MAGNETIC FIELD AND NONLINEAR OPTICAL EFFECTS
SSD-TDR-63-351 N64-16086 07-25

CAPTURE EFFECT STUDY USING EFFECTS OF TWO MODULATING FREQUENCIES ON DRIFTING ELECTRON BEAM N64-16138 08-09

FREQUENCY MODULATED-CONTINUOUS WAVE SENSOR FOR SPACECRAFT RENDEZVOUS AND LANDING N64-16186 08-08

ASYMPTOTIC BEHAVIOR OF SPECTRA OF RADIO FREQUENCY PULSES WITH LINEAR FREQUENCY MODULATION
AD-421872 N64-17663 09-08

HETERODYNE DEMODULATION OF FREQUENCY MODULATED LIGHT IN MICROWAVE RANGE
AD-428980 N64-20394 13-25

DETECTION TECHNIQUES FOR LIGHT MODULATED AT MICROWAVE FREQUENCY - FM DEMODULATION SCHEMES
EDL-M670 N64-22115 15-23

DEMODULATION OF WIDEBAND FREQUENCY MODULATION BY PHASE LOCK TECHNIQUE
NASA-TN-D-1680 N64-23340 16-09

RANGE MEASUREMENT WITH RADIO WAVES USING PHASE SHIFT, FREQUENCY MODULATION, AND PULSED RADIATION METHODS N64-24637 17-09

POWER AND BANDWIDTH REQUIREMENTS FOR SINGLE SIDE BAND, FREQUENCY MODULATION, AND PULSE CODE MODULATION SYSTEMS FOR SATELLITE COMMUNICATION
NASA-CR-56538 N64-27390 19-08

USE OF MULTIPLE DEES IN FREQUENCY MODULATED CYCLOTRON N64-28165 20-10

CONSTANT BANDWIDTH FREQUENCY MODULATION /FM/ STANDARD - TELEMETRY SYSTEM
ARTC-39 N64-28783 20-08

FREQUENCY SPECTRA & DEMODULATION OF PULSES WITH PUSH-PULL MODULATION N64-29470 21-09

RECEPTION THRESHOLD FOR WIDEBAND FREQUENCY MODULATION
NASA-TT-F-9043 N64-31562 23-08

OUTPUT TIME FUNCTION OF LINEAR-FREQUENCY MODULATION-PULSE COMPRESSION FILTER
TM-03984 N64-31889 23-08

VARACTOR FREQUENCY MODULATION OF SUPPORTED DRIFT TUBE KLYSTRON
GE/EE/63-20 N64-31919 23-09

MODULATION AND DETECTION PROCESSES FOR VENUS UNCOOPERATIVE RADAR TARGET ANALYSIS
NASA-CR-58777 N64-32998 24-05

MICROWAVE CIRCUIT DEVICES TO CONTROL COHERENT OPTICAL BEAMS USING BIREFRINGENT CRYSTALS - LASER RADIATION
RM-234J N64-33839 24-25

FREQUENCY RANGE
TUNABLE ANTENNAS FOR MAXIMUM GAIN IN ENDFIRE DIRECTION OVER WIDE FREQUENCY RANGE
AFCRL-63-588 N64-17321 09-09

INSTRUMENTATION TO INCREASE FREQUENCY RANGE OF FIELD INTENSITY METER N64-22825 16-09

TIGHTER TOLERANCE CRYSTAL UNITS HAVING TEMPERATURE COMPENSATION AND FREQUENCY ADJUSTMENT FEATURES
REPT.-3 N64-29679 21-09

FREQUENCY SHIFT
ELECTRON SPIN RESONANCE, FREQUENCY SHIFTS, AND SPIN LATTICE RELAXATION OF SOLIDS AT LOW TEMPERATURES
AD-432140 N64-16847 08-25

COHERENT DETECTION OF RADAR ECHOES OF UNKNOWN DOPPLER SHIFT
RM-4227-PR N64-30120 21-08

POWER DEPENDENT FREQUENCY SHIFTS IN RUBY LASERS
ATN-64/9216/-3 N64-32252 23-25

FRESNEL INTEGRAL
FRESNEL INTEGRAL EVALUATED BY TAYLOR SERIES EXPANSIONS
NASA-SP-3010 N64-23531 16-20

FRESNEL REGION
APPLICATION OF FRESNEL ZONE THEORY IN DESIGNING OF SPHERICAL REFLECTOR FOR MICROWAVE ANTENNA SYSTEMS
AFCRL-62-950 N64-21084 14-08

ELECTROMAGNETIC FIELD IN FRESNEL REGION OF CASSEGRAIN ANTENNA
RADC-TDR-62-360, VOL. II N64-22475 15-08

FRETTING
FRETTING CORROSION AND ITS EFFECT ON DESIGN OF MECHANICAL AND ELECTRICAL DEVICES
TR-1169 N64-16883 08-33

ELECTRIC CONTACT CONTAMINATION FROM FRETTING CORROSION IN AC COIL RELAYS N64-19507 12-09

FRICTION
SA SKIN FRICTION
CF WEAR
INTERNAL FRICTION DUE TO OXYGEN IN SINGLE CRYSTAL SILVER WIRE UNDER TORSIONAL STRESS
UCRL-11017 N64-10186 01-18

SOLID STATE PHYSICS - FRICTION OF DISLOCATION IN MONOCRYSTALS & MECHANICAL PROPERTIES OF COPPER-GOLD ALLOYS
JPRS-18062 N64-10738 02-25

FRICTIONAL FORCE ACTING ON MOVING DISLOCATION IN CRYSTALS N64-10739 02-25

CRYSTAL DISLOCATION, INTERNAL FRICTION, AND DYNAMIC MODULUS OF FACE CENTERED CUBIC METALS AFTER DEFORMATION N64-11630 03-25

FRICTION, WEAR, DECOMPOSITION MECHANISMS, AND EVAPORATION RATES OF POLYMER COMPOSITIONS IN VACUUM
NASA-TN-D-2073 N64-12105 03-19

FRICTION, HEAT TRANSFER, AND MASS TRANSFER COEFFICIENTS FOR CONSTANT PROPERTY TURBULENT BOUNDARY LAYER ON FLAT PLATE
NOLTR-63-77 N64-12259 03-11

STABILIZATION OF SYSTEMS HAVING DRY FRICTION NONLINEARITY BY INTRODUCING NONLINEAR PASSIVE COMPENSATION
AIEE-CP-1061 N64-12942 04-20

INTERNAL FRICTION AND DYNAMIC ELASTIC MODULUS OF SINTERED ALUMINUM POWDER
EUR-402.1 N64-13141 04-23

RESILIENT FRICTION GUIDE FOR FORWARD AND ROTATING

MOTIONS OF MOVABLE TOOLS N64-13577 05-17

RESIDUAL STRESSES, INTERNAL FRICTION, AND YOUNGS MODULUS OF URANIUM
BMI-1658 N64-14160 05-18

BRAKING DISTANCES FOR AIRCRAFT AS AFFECTED BY VELOCITY, FRICTION, AND WET RUNWAY CONDITIONS
AGARD-434 N64-14215 06-10

FUNDAMENTALS OF FRICTION AND WEAR ON FLUID FILM AND ROLLING-ELEMENT BEARINGS
NASA-SP-38 N64-15226 07-01

FRICTION AND BEARING PROBLEMS IN VACUUM AND RADIATION ENVIRONMENTS OF SPACE
N64-15235 07-17

FRICTION OF METALS, LUBRICATING COATINGS, AND CARBONS IN LIQUID NITROGEN AND HYDROGEN
N64-15236 07-17

HEAT TRANSFER AND FRICTION ON PERMEABLE WALL IN TURBULENT BOUNDARY LAYERS OF GAS FLOW
FTD-TT-62-1315/1&2&4 N64-16395 08-11

PRESSURE, TEMPERATURE, AND FILM THICKNESS BETWEEN TWO LUBRICATED ROLLING AND SLIDING CYLINDERS - THERMOELASTOHYDRODYNAMICS
MTI-63TR48 N64-16792 08-17

MONOFILAMENT FIBER FRICTION MECHANISMS
RTD-TDR-63-4127, PT. 1 N64-17665 09-33

TEMPERATURES ON SURFACES AT SLIDING CONTACT - FRICTION HEATING
RSIC-142 N64-18645 11-17

FLUID FRICTION AND BOILING HEAT TRANSFER WITH WATER IN VORTEX FLOW IN TUBES CONTAINING INTERNAL TWISTED TAPE
RADC-TDR-63-451 N64-18867 11-13

FRICTION AND WEAR OF NICKEL-ALUMINUM ALLOYS AND SOME SULFUR-MODIFIED STEELS IN VACUUM
NASA-TN-D-2307 N64-20192 13-17

METAL-POLYMERIC FILMS ON FRICTION SURFACE
FTD-TT-63-564/1&2 N64-21932 15-17

PLASTIC BEARINGS WITH INVERTED FRICTION COUPLING
FTD-TT-63-242/1&2 N64-22189 15-19

ROTATING BEARINGS TO REDUCE GYROSCOPE DRIFT CAUSED BY GIMBAL BEARING FRICTION
FTD-TT-62-1900/1&2&4 N64-23410 16-15

HOT GAS JET REACTION VALVE USING BOUNDARY LAYER CONTROL TECHNIQUE OF HIGH PRESSURE & TEMPERATURE GAS STREAM N64-23829 16-33

X-RAY INVESTIGATION OF SURFACE LAYERS OF METAL DURING ROLLING FRICTION N64-23837 16-33

X-RAY INVESTIGATION OF DISTORTION OF STRUCTURE OF STEEL DURING ROLLING FRICTION N64-23838 16-33

X-RAY INVESTIGATION OF RESIDUAL STRESSES OF FIRST AND THIRD KIND DURING WEAR OF STEEL SPECIMENS IN PROCESS N64-23839 16-33

INTERNAL FRICTION OF ICE AND FROZEN HEAVY WATER
N64-23898 16-13

SLIDING FRICTION AND WEAR OF COPPER MEASURED UNDER STRESS
RTD-TDR-63-4257 N64-24236 17-17

FRICTION IN BEARINGS AND GEAR TRAIN OF FLYWHEEL ACCELERATION INTEGRATOR
NOLTR-63-127 N64-26239 18-17

INTERNAL FRICTION OF MARTENSITIC STEEL
ATR-1 N64-26623 18-18

OPTICAL METHOD FOR DETERMINING ACTUAL CONTACT AREAS ON FRICTION PLANE
RSIC-192 N64-27489 19-19

FRICTION, WEAR, AND DYNAMIC SEAL STUDIES IN LIQUID FLUORINE AND LIQUID OXYGEN
NASA-TN-D-2453 N64-27945 20-17

APPARENT MOTION OF ASTATIC GYROSCOPE WITH DRY FRICTION IN AXIS OF GIMBAL FIXED TO EARTH
N64-29142 21-15

FRICTIONAL PROBLEMS IN SPACECRAFT MECHANISMS CAUSED BY SPACE ENVIRONMENTS
NASA-CR-58704 N64-29508 21-17

FRICTION RESISTANCE OF FLAT PLATE AT ZERO ANGLE OF ATTACK IN REGION BETWEEN CONTINUUM AND FREE MOLECULAR FLOW
FTD-MT-63-83/1&2&3&4 N64-30542 22-17

WALL FRICTION & HEAT TRANSFER EFFECTS ON MAGNETOHYDRODYNAMIC DEVICES
ISR-6 N64-32136 23-24

DAMPING CONSTANTS FOR DRY FRICTION-VISCOUS DAMPED SINGLE DEGREE OF FREEDOM SYSTEM
AD-445028 N64-33375 24-23

FRICTION COEFFICIENT

RUNWAY ROLLING COEFFICIENT OF FRICTION FOR PREDICTION OF TAKEOFF RUNS
AGARD-418 N64-13877 05-10

HEAT TRANSFER AND AVERAGE FRICTION COEFFICIENTS FOR HYDROGEN AND HELIUM FLOWING IN TUNGSTEN TUBE
NASA-TN-D-2280 N64-18962 11-13

FRICTION COEFFICIENTS OF SOLID FILM LUBRICANTS FOR SPACE ENVIRONMENT
NASA-CR-53835 N64-19596 12-17

LAMINAR AND TURBULENT HYDROGEN HEAT TRANSFER AND FRICTION COEFFICIENTS OVER PARALLEL TUNGSTEN PLATES 5000 DEG R
NASA TN D-2435 N64-27123 19-13

COEFFICIENTS OF FRICTION FOR PHOSPHATE COATINGS ON WEAPON COMPONENTS
SA-TR-18-1084 N64-29793 21-17

FACTORS AFFECTING FRICTION COEFFICIENT BETWEEN TIRES AND PAVEMENT SURFACES, AND PROBLEM OF SKID LANDINGS
R-303 N64-30675 22-04

FRICTION MEASUREMENT

FRICTION MEASUREMENTS OF SOLID SURFACES COVERED WITH SOLID FILMS OF LEAD, NICKEL, AND CHROMIUM
RTD-TDR-63-4272, PT. V N64-17513 09-18

CONSTRUCTION AND OPERATION OF QUARTZ COMPOSITE OSCILLATOR FOR MEASURING INTERNAL FRICTION IN METALS AND ALLOYS
BM-RI-6419 N64-18506 10-09

OIL SEALS FOR RECIPROCATING ENGINE - FRICTION MEASUREMENTS N64-19021 11-17

FRICTION AND ARMING TIME IN SETBACK-LEAF SYSTEM - PARACHUTE OPERATION
HDL-TR-1232 N64-29810 21-17

FRICTION REDUCTION

METHODS FOR REDUCING SURFACE FRICTION OF ELASTOMERIC VULCANIZATES, AND FRICTIONAL DATA FOR POLYTETRAFLUOROETHYLENE COATINGS
NRL-5911 N64-14678 06-19

FRICTION REDUCTION IN SUPPORTS FOR GYROSCOPES
N64-29151 21-15

LOW FRICTION COATINGS FOR VULCANIZED ELASTOMERS - BUTYL RUBBER
AD-443073 N64-29656 21-19

FROBENIUS SERIES

USE OF FROBENIUS SERIES IN SOLVING HOMOGENEOUS LINEAR DIFFERENTIAL EQUATIONS WITH WEAK SINGULAR POINTS
NASA-CR-58998 N64-32993 24-20

FROG
ULTRAVIOLET FLUORESCENCE OF AMINO ACIDS IN FROG MUSCLES
JPRS-19287 N64-11068 02-16

RECORDING OF EFFERENT IMPULSE OF FROG NERVOUS SYSTEM
SAM-TDR-63-66 N64-13869 05-16

TIME AND DOSE DEPENDENCY OF NITROGEN COMPOUND EXCRETION FROM ISOLATED FROG LIVER AFTER WHOLE-BODY IRRADIATION
NIJS-R-422 N64-21048 14-14

EFFECT OF HISTAMINE AND CYSTEINE ON NITROGEN EXCRETION FROM LIVER OF IRRADIATED FROG
NIJS-R-423 N64-21049 14-14

NITROGEN COMPOUNDS EXCRETED BY ISOLATED LIVER OF NONIRRADIATED AND IRRADIATED FROGS
NIJS-R-421 N64-21056 14-16

CONDUCTION BLOCKAGE OF ISOLATED SCIATIC NERVE OF FROG BY HIGH ENERGY IRRADIATION
N64-29725 21-16

ORIGIN OF POSITIVE COMPONENT OF EVOKED POTENTIAL OF TECTUM OPTICUM OF TOAD - ELECTROPHYSIOLOGY
N64-31542 23-16

FRONTAL AREA
CONVECTIVE AND NONCONVECTIVE ZONES OF PREFRONTAL PRECIPITATION - VERTICAL MOTION, MOISTURE, AND CLOUD STRUCTURE
AFCRL-63-717 N64-11182 02-21

THERMAL, CLOUD, AND PRECIPITATION STRUCTURES OF OCCLUDED FRONTAL SYSTEMS ON MESO- & SYNOPTIC SCALES - RADIOSONDE & RADAR OBSERVATIONS
AFCRL-64-26 N64-16869 08-21

TIROS I CLOUD PHOTOGRAPHS OF SUBTROPICAL CONVERGENCE BAND COMPLEMENTS SURFACE METEOROLOGICAL DATA ON QUASI-STATIONARY FRONT
N64-17913 10-21

TIROS I NEPHANALYSIS COMPARED WITH CONVENTIONAL WEATHER ANALYSIS FOR FAMILY OF PACIFIC FRONTAL STORMS N64-17914 10-21

FROST
S FREEZING

FROUDE NUMBER
S INERTIAL FORCE
S KINETIC ENERGY
S POTENTIAL ENERGY

FROZEN FOOD
S PRESERVATION

FUEL
SA CARBON
SA CHARCOAL
SA FLAME
SA JET FUEL
SA KEROSENE
SA OIL
SA PETROLEUM
SA PROPELLANT
CERAMIC REACTOR FUEL DEVELOPMENT - URANIUM OXIDE & PLUTONIUM OXIDE SYSTEMS
HW-76302 N64-11306 02-19

PLUTONIUM CERAMIC REACTOR FUELS - PHASE STUDIES & PHYSICAL PROPERTIES OF VARIOUS PLUTONIUM ALLOYS
NILM-1171 N64-12128 03-19

LUBRICANT GREASES NONREACTIVE WITH MISSILE FUELS AND OXIDIZERS
FA-A63-10 N64-12705 04-26

SODIUM COOLED REACTOR & FAST CERAMIC REACTOR FUEL
GEAP-3880 N64-13016 04-23

CHARCOAL, WOOD, AND COW DUNG FOR FUEL IN THERMAL ENERGY CONVERSION SYSTEMS
GPR-5 N64-13958 05-06

PHYSICS OF FUEL MANAGEMENT IN THE SENN REACTOR - COST ANALYSIS
NYO-9991 N64-14875 06-23

CHEMICAL PROCESSING TECHNOLOGY AT REACTOR FACILITY
IDO-14621 N64-14926 06-07

RESONANT SCATTER DETECTION OF RAREFIED FUEL SURROUNDING MIDCOURSE VEHICLES N64-15264 07-21

EFFECT OF CHEMICAL COMPOSITION AND ADDITIVES ON FUEL COMBUSTION IN JET ENGINES
FTD-TT-62-743/1&2&4 N64-16059 07-26

COMBUSTION AT LOWERED PRESSURES - COMPLETENESS & STABILITY OF COMBUSTION OF PREVAPORIZED FUELS
FTD-TT-62-948/1&2&4 N64-16230 08-26

CHEMICAL REACTION OF PROPELLANT TANK MATERIAL WITH ROCKET FUEL AND OXIDIZERS
NASA-TN-D-1882 N64-17152 09-26

CERAMICS RESEARCH, FUEL DEVELOPMENT, TESTING, AND ANALYSIS - ABSTRACTS
HW-76303 N64-17221 09-19

MULTISOLID FUEL BURNER FOR THERMAL ENERGY CONVERSION TO GENERATE 150 WATTS OF POWER
N64-17384 09-06

TRAJECTORY EQUATIONS FOR BALLISTIC MISSILES AND LIQUID & SOLID FUELS FOR ROCKET ENGINES
JPRS-24024 N64-17972 10-30

ANALYTICAL DATA FOR AVIATION GASOLINE AND TURBINE FUELS N64-18150 10-26

AIR SWIRL & FUEL SPRAY CHARACTERISTICS FOR OPTIMUM PERFORMANCE OF STRATIFIED CHARGE ENGINE
AD-435855 N64-20098 13-27

RADIATION PHYSICS SOLUTIONS TO PROBLEMS OF INSTRUMENTATION USED IN LOW AND HIGH ALTITUDE ALTIMETRY AND FUEL MASS MEASUREMENT
ASD-TDR-63-697 N64-20395 13-15

IGNITION CHARACTERISTICS OF FUELS AND LUBRICANTS
APL-TDR-64-25 N64-21317 14-26

COMBUSTION RATE OF ATOMIZED FUEL IN TURBULENT FLOW
FTD-TT-62-1028/1&2&4 N64-21651 15-26

TRANSIENT RESPONSE OF YLR87-AJ-5 ROCKET ENGINE TURBOPUMP WITH REDESIGNED FUEL PUMP AND PROPULSION SYSTEM EQUIPMENT
AD-434861 N64-22229 15-17

ELECTROHYDRAULIC FEEDING AND ATOMIZING LIQUID FUELS AND OTHER LIQUIDS
FTD-TT-63-478/1&2 N64-22649 15-07

FUELS SUITABLE FOR APPLICATION TO EXTERNAL COMBUSTION ENGINE - DEFENDER PROJECT
TM-109 N64-25754 17-26

SPECIFICATIONS FOR HEAT SINK FUELS FOR HYPERSONIC AIRCRAFT
S-13911 N64-25780 17-26

MICROBIAL AND ENZYMATIC PROCESSES FOR REDUCING HUMAN URINE AND FECES TO ELECTROCHEMICAL FUELS
NASA-CR-54077 N64-27930 20-06

DERMATOLOGICAL EFFECTS OF AIRCRAFT FUEL AND THERAPY
JPRS-16055 N64-28631 20-16

DYNAMIC MODELING FOR CONTROL OF FUEL SLOSHING
N64-29264 21-33

ANALOG CIRCUITS FOR ENERGY AND FUEL OPTIMAL CONTROL OF LINEAR DISCRETE SYSTEMS
NASA-CR-59248 N64-33340 24-09

HANDLING OF HIGH ENERGY FUEL OXIDIZERS AND TOXIC MATERIALS IN CONFINED AREAS
NSL-64-244 N64-33368 24-17

EFFECT OF IMPURITIES ON IONIZATION BEHAVIOR OF

CESIUM ON POROUS TUNGSTEN SURFACE IN ION ENGINE
ASD-TDR-63-476, PT. II N64-33885 24-26

FUEL-AIR RATIO
IGNITION PROPERTIES OF GASEOUS FUEL-AIR MIXTURES WITH APPLICATION TO EXPLOSION-PROOF TESTING
ASD-TDR-62-1081 N64-12227 03-26

FUEL CELL
SA BIOCHEMICAL FUEL CELL
SA HYDROX FUEL CELL
SA REGENERATIVE FUEL CELL
CF ENERGY CONVERSION
ELECTROLYTE MATRIX COMBINATIONS FOR MERCURY POTASSIUM FUEL CELL
NASA-CR-52141 N64-10085 01-06

ELECTROLYTE PULSING USING CARBON ELECTRODE FOR IMPROVED FUEL CELL OPERATION
NASA-CR-52490 N64-10442 01-06

FUNDAMENTAL CHEMICAL PROPERTIES AND BEHAVIOR OF FUEL CELLS
NASA-CR-52710 N64-10906 02-07

FUEL CELLS USING STORABLE ROCKET PROPELLANTS - ELECTROCHEMICAL CHARACTERISTICS & ELECTRODE POTENTIAL
NASA-CR-52860 N64-11108 02-06

THERMAL DESIGN CONSIDERATIONS FOR OPEN-CYCLE FUEL CELL OPTIMIZATIONS
NASA-CR-52545 N64-11297 02-06

ELECTRODES FROM CARBON AND POROUS NICKEL FOR THIN FUEL CELLS
AD-425031 N64-12058 03-06

GAS, LIQUID, & CHEMICAL SOURCES OF HYDROGEN FOR USE WITH FUEL CELL BATTERIES - BIBLIOGRAPHY
TR-1168 N64-12661 04-19

HYDROCARBON, AMMONIA, AND COAL GAS FUEL CELL
SAE-PAPER-783A N64-13332 04-06

ELECTROCHEMICAL PARAMETER EVALUATION FOR INTERMEDIATE TEMPERATURE DIRECT AMMONIA-AIR FUEL CELL
QR-1 N64-14629 06-06

FUEL CELL PERFORMANCE UNDER NONEQUILIBRIUM CONDITIONS
NASA-CR-52890 N64-14903 06-06

MOLTEN CARBONATE HYDROGEN FUEL CELLS
TI-08-63-108 N64-15562 07-06

TECHNOLOGY OF DEUTERIUM OXIDE MODERATED POWER REACTOR WITH URANIUM-PLUTONIUM OR THORIUM-URANIUM FUEL CELL
DP-864 N64-15771 07-23

MECHANICAL AND ELECTRICAL PULSE TECHNIQUES FOR IMPROVEMENT OF FUEL CELL PERFORMANCE
NASA-CR-55742 N64-15862 07-06

PERFORMANCE CHARACTERISTICS OF UNCOATED AND PLATINIZED IONIC MEMBRANE FUEL CELLS
NASA-CR-55694 N64-15871 07-06

MODEL FUEL CELL WHICH ENABLES INDIVIDUAL ELECTRODE POLARIZATION MEASUREMENT & TOTAL CELL POLARIZATION
NASA-CR-55642 N64-15898 07-06

IRREVERSIBILITY OF OXYGEN CATHODE REDUCTION TO PEROXIDE IN FUEL CELL SYSTEMS - EFFECTS OF ELECTRODE AND ELECTROLYTE VARIATIONS
AD-429248 N64-15934 07-06

SOLID ELECTROLYTE FUEL CELL FOR SPACECRAFT ELECTRIC POWER SUPPLY
ASD-TDR-63-448 N64-16060 07-06

FEASIBILITY OF SOLID ELECTROLYTE FUEL CELLS FOR AEROSPACE APPLICATION
AD-283434 N64-16101 07-06

PERFORMANCE TEST OF NICKEL-CADMIUM SEALED FUEL CELLS
NASA-CR-55630 N64-16104 07-06

TESTING OF DYNAMIC VAPOR PRESSURE CONTROL BREADBOARD SYSTEM AND STATIC VAPOR PRESSURE CONTROLLED FUEL CELL
NASA-CR-55799 N64-16275 08-06

TEST APPARATUS FOR DEVELOPMENT OF OSMOTIC STILL TO REMOVE POTABLE WATER FROM ELECTROLYTES IN DUAL MEMBRANE FUEL CELLS
NASA-CR-55699 N64-16276 08-06

CONSTRUCTION AND PERFORMANCE OF STANDARD AND SINTERED ELECTRODES, DESIGN OF IMMERSION BATH TEST APPARATUS FOR DUAL MEMBRANE FUEL CELL IMPROVEMENT
NASA-CR-55700 N64-16277 08-06

MATERIALS AND SINTERED ELECTRODE TESTING, FUEL CELL DESIGN, AND CHECKOUT OF TEST RIG FOR OSMOTIC STILL AND DUAL MEMBRANE FUEL CELL
NASA-CR-55702 N64-16278 08-06

MEMBRANE AND ELECTRODE TESTING AND MATERIAL ANALYSIS FOR OSMOTIC STILL AND DUAL MEMBRANE FUEL CELL
NASA-CR-55693 N64-16279 08-06

MEMBRANE, ELECTRODE, AND FUEL CELL TESTING IN DEVELOPMENT OF OSMOTIC STILL AND IMPROVEMENT OF DUAL MEMBRANE FUEL CELL
NASA-CR-55695 N64-16282 08-06

MOLTEN-CARBONATE FUEL BATTERY
TI-08-63-63 N64-16300 08-06

DESIGN SPECIFICATIONS, TEST RIG, AND MEMBRANE PERFORMANCE FOR OSMOTIC STILL - CELL TESTING AND ASSEMBLY FOR DUAL MEMBRANE FUEL CELL
NASA-CR-55696 N64-16319 08-06

OSMOTIC STILL - IONIC DUAL MEMBRANE FUEL CELL DEVELOPMENT
NASA-CR-55735 N64-16336 08-06

ELECTROLYTE MATRIX FOR LIQUID POTASSIUM-MERCURY FUEL CELL
NASA-CR-53108 N64-16747 08-06

FUEL CELLS - POWER SOURCES CONFERENCE
N64-17376 09-06

THREE-CARBON HYDROCARBONS IN FUEL CELLS WITH ACID ELECTROLYTES USING PLATINUM CATALYZED ELECTRODES
N64-17395 09-06

ENERGY CONVERSION PROBLEMS OF HIGH TEMPERATURE HYDROCARBON FUEL CELLS N64-17396 09-06

STATISTICS - EXPERIMENTAL DESIGN FOR FUEL CELL RESEARCH N64-17398 09-06

FUEL CELLS FOR LOW POWER GROUND APPLICATIONS
N64-17399 09-06

HIGH POWER PETROLEUM FUEL CELL SYSTEMS FOR MILITARY GROUND STATION APPLICATIONS
N64-17400 09-06

FUEL CELLS AS ENERGY STORAGE AND CHEMICAL REACTOR DURING SPACE FLIGHTS N64-17402 09-06

FUEL CELLS FOR CENTRAL ELECTRICAL STATION POWER
N64-17403 09-06

ECONOMIC AND LOGISTIC IMPACT OF HYDROCARBON-AIR OXIDATION FUEL CELLS ON TRACTION VEHICLE OPERATION
N64-17404 09-06

PERFORMANCE OF AIR-BREATHING SOLID ELECTROLYTE FUEL CELLS N64-17405 09-06

FUEL CELL APPLICABILITY TO GROUND VEHICLES
N64-17406 09-06

ANODE CATALYST MATERIAL FOR OPERATION OF DIRECT HYDROCARBON FUEL CELLS AT LOW TEMPERATURES
N64-17407 09-06

DEVELOPMENT OF DISSOLVED-FUEL-TYPE METHANOL-AIR

FUEL CELL N64-17408 09-06

LIQUID HYDRAZINE-OXYGEN FUEL CELL FOR AEROSPACE APPLICATION N64-17409 09-06

NUCLEAR LIQUID METAL CELL SYSTEM FOR SPACE POWER SUPPLIES N64-17411 09-06

COMPARISON OF VARIOUS FUEL CELL SYSTEMS FOR DIFFERENT APPLICATIONS N64-17412 09-06

ELECTROLYTE MATRIX COMBINATIONS FOR MERCURY-POTASSIUM FUEL CELL
NASA-CR-53297 N64-17606 09-06

LIQUID COOLING FOR RECIRCULATION SYSTEM OF OPEN CYCLE FUEL CELL
NASA-CR-55966 N64-17687 09-06

TESTING ELECTROLYTE MATRIX COMBINATION OF MERCURY-POTASSIUM FUEL CELL
NASA-CR-53527 N64-18219 10-06

ELECTROLYTE MATRIX COMBINATIONS FOR MERCURY-POTASSIUM FUEL CELLS - COMPOSITE STRENGTH TESTING AND CONDUCTIVITY MEASUREMENTS
NASA-CR-53347 N64-18283 10-06

ELECTROLYTE MATRIX COMBINATIONS FOR MERCURY-POTASSIUM FUEL CELL
NASA-CR-53349 N64-18284 10-06

ELECTROLYTIC MATRIX COMBINATIONS FOR MERCURY-POTASSIUM FUEL CELL
NASA-CR-53350 N64-18285 10-06

TESTING ELECTROLYTE MATRIX COMBINATIONS FOR MERCURY-POTASSIUM FUEL CELL
NASA-CR-53348 N64-18286 10-06

ELECTROLYTE MATRIX COMBINATION FOR TWO MERCURY-POTASSIUM FUEL CELLS FROM FINE AND COARSE GRAIN COMPOSITES
NASA-CR-53352 N64-18287 10-06

SMALL MERCURY-POTASSIUM FUEL CELLS USING LOW POTASSIUM AMALGAM IN ANODE
NASA-CR-53351 N64-18288 10-06

PERFORMANCE CHARACTERISTICS OF MERCURY-POTASSIUM FUEL CELLS WITH VARIOUS ELECTROLYTE COMBINATIONS
NASA-CR-53353 N64-18289 10-06

EFFECT OF MODIFYING GAS-ELECTROLYTE INTERFACE BY PULSES ON FUEL CELL PERFORMANCE
NASA-CR-54031 N64-19223 11-06

DYNAMIC AND STATIC VAPOR PRESSURE CONTROL BY GAS CHROMATOGRAPH STUDIES OF OPEN CYCLE FUEL CELL
NASA-CR-53733 N64-19575 12-06

LIMITATION OF FUEL CELL ELECTRODE PERFORMANCE
ASD-TDR-63-118 N64-19642 12-06

CHEMICAL PROPERTIES AND BEHAVIOR OF FUEL CELLS
NASA-CR-56171 N64-20814 14-06

PROPERTIES OF MINERAL ION EXCHANGE MEMBRANE USE IN LOW TEMPERATURE FUEL CELLS
AD-433803 N64-20900 14-06

OPTIMUM MATERIALS FOR DUAL MEMBRANE FUEL CELL MATERIAL - EVALUATION OF ION EXCHANGE MEMBRANES FOR OSMOTIC WATER PURIFICATION STILL
NASA-CR-43 N64-21252 14-06

ELECTROCHEMICAL CORROSION OF METALS AND ALLOYS IN PHOSPHORIC ACID ELECTROLYTE OF HYDROCARBON-AIR FUEL CELLS
AD-439400 N64-21297 14-06

ELECTROCHEMICAL STUDY OF CATALYTIC ACTIVITY ON HYDROGEN ELECTRODE IN FUEL CELL
AD-432973 N64-21398 14-07

PARAMETRIC STUDY OF DIRECT NUCLEAR ELECTROGENERATOR CELLS USING BETA EMITTING RADIOISOTOPE CERIUM-144
AIAA PAPER-63-048B N64-22259 15-23

PERFORMANCE CHARACTERISTICS OF THIN FILM FUEL CELL ELECTRODES
QR-3 N64-22521 15-06

AMMONIA FUEL CELLS
AD-601268 N64-22962 16-06

ZEOLITE MEMBRANE ELECTROLYTES FOR FUEL CELLS
NASA-CR-54023 N64-23947 16-26

FUEL CELLS FOR AEROSPACE APPLICATION
NASA-RP-222 N64-24964 17-06

HIGH PERFORMANCE LIGHTWEIGHT FUEL CELL ELECTRODES
NASA-CR-54084 N64-24985 17-06

PERFORMANCE CHARACTERISTICS OF THIN GAS DIFFUSION ELECTRODES FOR FUEL CELLS
REPT.-2 N64-25085 17-06

FUEL CELLS - MASS TRANSFER IN SOLID METAL ELECTRODES, AND GAS SOLUBILITY AND DIFFUSIVITY IN ELECTROLYTES
UFGG-8 N64-25861 18-06

FUEL CELLS USING STORABLE ROCKET PROPELLANTS
NASA-CR-54116 N64-25901 18-06

FUEL CELLS USING STORABLE ROCKET PROPELLANTS
NASA-CR-54117 N64-25902 18-06

TWO PHYSICAL MODELS FOR OPERATION OF POROUS GAS DIFFUSION ELECTRODES IN FUEL CELLS - SIMPLE PORE MODEL AND THIN FILM MODEL
REPT.-7 N64-26931 18-06

SODIUM-BROMINE FUEL CELL AS ENERGY SOURCE FOR HIGH POWER PULSE N64-27113 19-06

COMPUTATION OF SPECIFIC ENERGY OF FUEL CELLS
NASA-TT-F-9039 N64-27328 19-06

ELECTROCHEMISTRY OF FUEL CELL ELECTRODES - HYDROGEN EVOLUTION AT SOLID INDIUM ELECTRODE
TH-11 N64-27623 19-07

IMPROVING FUEL CELL PERFORMANCE BY PULSING TECHNIQUES
NASA-CR-54150 N64-28086 20-06

OPEN-CYCLE FUEL CELL SYSTEM - STATIC VAPOR PRESSURE CONTROL, PURGING OF INERT IMPURITIES FROM REACTANT GASES, AND TESTS ON GAS COOLED FUEL CELL SYSTEM MOCKUP
NASA-CR-58313 N64-28955 20-06

MATRIX-TYPE DIRECT AMMONIA-AIR FUEL CELL OPERATING AT INTERMEDIATE TEMPERATURES
REPT.-3 N64-29585 21-06

FUEL CELLS USING STORABLE ROCKET PROPELLANTS
NASA-CR-54170 N64-30605 22-06

THERMAL VACUUM TEST OF ORBITAL STATIC MOISTURE-REMOVAL FUEL CELL
APL-TDR-64-72 N64-30921 22-06

FUEL CELL-SOLAR CELL COMBINATION UNIT AS AUXILIARY POWER SOURCE FOR MANNED SPACE LABORATORY
ASME PAPER-63-AHGT-71 N64-31017 22-06

CHELATE CATALYST FOR ELECTROCHEMICAL OXIDATION OF HYDROCARBON FUELS AT MODERATE TEMPERATURE
MRB-4012SA1 N64-31112 22-07

HIGH PERFORMANCE LIGHTWEIGHT FUEL CELL ELECTRODE DEVELOPMENT - ANALYSIS OF ELECTROLYTE CONCENTRATION AND TEMPERATURE GRADIENTS
NASA-CR-54171 N64-31456 23-06

VEHICLE SYSTEMS OPERATIONAL TEST OF STATIC ORBITAL FUEL CELL AND DESIGN OF PROTOTYPE FUEL CELL POWER SYSTEM BASED ON MULTICELL MODULE
QTPR-3 N64-32197 23-06

ELECTRIC POWER GENERATION FOR SPACE VEHICLES - BATTERIES, SOLAR CELLS, THERMOELECTRIC CONVERTERS, MAGNETOHYDRODYNAMIC CONVERTERS, FUEL CELLS, AND THERMIONIC CONVERTERS N64-32770 24-06

DIRECT ENERGY CONVERSION SYSTEMS - FUEL CELLS, MAGNETOGASDYNAMICS, THERMOELECTRICITY
AD-406355 N64-32867 24-24

MAGNETOGASDYNAMIC, FUEL CELL, AND THERMOELECTRIC ENERGY CONVERSION
AD-423164 N64-32963 24-24

MAGNETOGASDYNAMIC ENERGY CONVERSION IN COMBUSTION GAS GENERATOR AND SHOCK TUBE, AND ELECTROCHEMICAL RESEARCH ON FUEL CELLS
AD-430023 N64-32964 24-24

STATIC MOISTURE REMOVAL SYSTEM FOR CAPILLARY MEMBRANE HYDROGEN-OXYGEN FUEL CELL
NASA-CR-58852 N64-33209 24-06

FUEL CELL MEMBRANE ELECTRODE TESTING FOR ACTIVITY AS ANODES FOR OXIDATION OF HYDROGEN, PROPANE, HYDRAZINE, METHANOL, AND FOR REDUCTION OF OXYGEN
MRB-4020T1 N64-33316 24-06

MEASUREMENTS OF POLARIZATION VOLTAGE LOSSES AND DESIGN OF CEROLYTE FUEL CELL BATTERY
QTPR-2 N64-33526 24-06

ELECTROCATALYSIS - HYDROGEN EVOLUTION AT DILUTE PLATINUM & PALLADIUM AMALGAM FUEL CELL ELECTRODES
TM-7 N64-33757 24-06

FUEL-CELL OXYGEN ANALYZER FOR DETERMINING ATMOSPHERIC OXYGEN LEVEL ON MARS
NASA-CR-59363 N64-33811 24-06

FUEL COMBUSTION
FUEL PRECONDITIONING FOR CONTROLLING COMBUSTION CHARACTERISTICS IN DIESEL ENGINES
AD-439496 N64-25991 18-26

PERMEATION OF FOSSIL FUEL COMBUSTION GAS DETERMINED FOR ALUMINUM OXIDE, BERYLLIUM OXIDE, AND SILICON CARBIDE SAMPLES USING PROTOTYPE BURNER - THERMIONIC CONVERTERS
QTR-3 N64-28078 20-06

FLASH PYROLYSIS OF SOLID FUEL MATERIALS BY THERMAL RADIATION
WSS/CI PAPER-64-6 N64-33500 24-26

FUEL CONSUMPTION
EFFECTS OF FUEL MANAGEMENT PROGRAM ON REACTOR CORE AND NUCLEAR PLANT CHARACTERISTICS
TID-7665 N64-10426 01-26

ORBITAL TRANSFER OF ROCKET HAVING MOMENTUM, THRUST AND WEIGHT LOSS AT CONSTANT RATE WITH MINIMUM FUEL CONSUMPTION
AD-425513 N64-12328 03-29

PONTRYAGIN OPTIMAL PRINCIPLE APPLIED TO CONTROL SYSTEM PROBLEMS WHERE OPTIMIZATION CRITERION IS MINIMUM FUEL CONSUMPTION
NASA-CR-55149 N64-13189 04-29

OPTIMUM UTILIZATION OF ORBITING SATELLITE FUEL DURING CROSS-RANGE MANEUVERS
ER-12929 N64-18007 10-29

PARAMETRIZATION OF OPTIMAL MINIMUM AND MAXIMUM ESTIMATION OF TRAJECTORY FUEL CONSUMPTION
NASA-CR-53593 N64-18429 10-20

INTAKE EFFICIENCY PARAMETERS FOR SUPERSONIC COMBUSTION RAMJET ENGINE
ASRPR-TM-62-68 N64-24215 16-27

OPTIMAL CONTROL WITH MINIMUM FUEL CONSUMPTION CRITERION FOR FOURTH ORDER PLANT WITH TWO CONTROL INPUTS
NASA-CR-58124 N64-26373 18-29

OPTIMAL CONTROL FUNCTIONS OF MINIMUM SETTLING TIME AND FUEL CONSUMPTION FOR SINGLE-AXIS ATTITUDE CONTROL SYSTEMS
ASME PAPER-62-JACC-6 N64-27175 19-06

ANALYTICAL FORMULATION OF MINIMUM FUEL CONSUMPTION FOR DOCKING WITH EARTH SATELLITE
NASA-CR-58222 N64-27906 20-29

CALIBRATION AND FUEL CONSUMPTION OF GAS TURBINE AUXILIARY POWERPLANT
NAEC-AEL-1767 N64-28978 20-06

FUEL CONSUMPTION FOR TURBINE JET ENGINES - FUEL COMPONENTS
FTD-TT-64-349/162 N64-30544 22-26

FUEL ELEMENT
SA NUCLEAR FUEL
SA REACTOR FUEL
LAMPRE I REACTOR PROGRAM - PLUTONIUM FUEL ALLOYS
LAMS-2973 N64-10187 01-23

CRACKING AND BULK MOVEMENT IN IRRADIATED URANIUM OXIDE FUEL ELEMENTS
AECL-1827 N64-10259 01-23

THERMOCONDUCTIVITY OF SINGLE-CRYSTAL COLUMNAR GRAINS IN IRRADIATED URANIUM DIOXIDE FUEL ELEMENTS
AECL-1822 N64-10376 01-13

TEMPERATURE DISTRIBUTION IN PERFORATED CIRCLE FOR HEAT FLOW DETERMINATION OF TUBE-IN-SHELL FUEL ELEMENT
AECL-1835 N64-10379 01-13

UNIFORM LATTICE ANALYSIS OF SLIGHTLY ENRICHED URANIUM DIOXIDE FUEL RODS
BAW-1273 N64-10987 02-23

FABRICATION TECHNIQUES FOR PRODUCTION OF LOW-COST TUBULAR FUEL ELEMENTS
BMI-1652 N64-11303 02-17

REACTOR MATERIAL, FUEL, & FUEL ELEMENT STUDY FOR CIVIL APPLICATION
BMI-1650/DEL./ N64-11775 03-23

SWAGING OF VARIOUS URANIUM DIOXIDE POWDERS FOR USE IN FABRICATION OF FUEL ELEMENTS
EUR-353.D N64-12000 03-17

LENGTH CHANGES OF ZIRCALOY SHEATHED URANIUM OXIDE FUEL ELEMENTS DURING IRRADIATION
CRFD-1174 N64-12092 03-19

IRRADIATION AND POSTIRRADIATION ANNEALING OF SOME ALUMINUM-BASE URANIUM FUELS
ANL-6665 N64-13025 04-11

THEORETICAL ANALYSIS OF PROBLEMS DUE TO PRESENCE OF PLUTONIUM IN HETEROGENEOUS THERMAL REACTOR FUEL ELEMENTS
EUR-470.E N64-13146 04-23

NEW FUEL ELEMENT COMPOSITIONS, ALUMINUM ALLOY TESTING AT HIGH TEMPERATURES, AND DAMAGE THRESHOLD INVESTIGATION FOR BERYLLIUM
IDO-16934 N64-14077 05-23

FUEL MATERIALS & FABRICATION METHODS, PHYSICS, CHEMICAL PROCESSING OF REACTOR FUELS & WASTE, IRRADIATION EFFECT ON FUELS, & TESTING
HW-78388 N64-14166 05-23

ELECTRON EMISSION TEST OF URANIUM CARBIDE COMPATIBILITY WITH TUNGSTEN ALLOYS FOR NUCLEAR FUEL ELEMENTS N64-14212 06-11

URANIUM-PALLADIUM THIN FOILS FOR CHEMONUCLEAR REACTOR FUEL ELEMENT
BNL-827/T-322/ N64-14401 06-23

STAINLESS STEEL SHELL-URANIUM CORE REACTOR ROD EXAMINATION AFTER IRRADIATION TO HIGH BURNUP LEVEL
ANL-6103 N64-14419 06-23

COMBUSTION AND DISINTEGRATION OF ZIRCONIUM HYDRIDE-URANIUM FUEL RODS N64-14574 06-26

CORROSION OF ALUMINUM ALLOYS USED AS FUEL ELEMENT CLADDING FOR ADVANCED TEST REACTOR /ATR/
ORNL-3541 N64-15718 07-11

REACTOR TECHNOLOGY - FUEL ELEMENT PREPARATION & PROCESSING AND ELECTROCHEMICAL MACHINING
NLCO-900 N64-15999 07-17

INTERNAL SILICA CONTAMINATION OF URANIUM, THORIUM, AND YTTRIUM OXIDE FUELS N64-17001 09-23

INTENSITY OF BETA RADIATION AT FUEL ELEMENT SURFACE SOLVED USING BETA ENERGY LEVEL EMISSION FROM FISSION PRODUCTS
HW-79814 N64-17497 09-23

FUEL ELEMENT - PLUTONIUM WITH MIXED OXIDES FOR PLUTONIUM RECYCLE TEST REACTOR
HW-79291 N64-17703 09-19

FUEL ELEMENT - HEAT TRANSFER IN GAS GAP BETWEEN URANIUM MONOCARBIDE AND ALUMINUM SURFACES
EUR-521.E N64-17775 09-23

MONITORING OF FISSION PRODUCTS IN EXPERIMENTAL BREEDER REACTOR-1 IN EVENT OF FUEL ELEMENT CLADDING FAILURE
ANL-6788 N64-17779 09-23

ELECTRON MICROSCOPE STUDY OF URANIUM ALLOYS AND ALLOY OF THORIUM FUEL ELEMENT STRUCTURES
HCW-1483 N64-19249 11-18

HOMOGENIZATION OF UNIT CELL OF REACTOR FUEL ELEMENT LATTICE FOR CORE DEPLETION ANALYSIS
WCAP-6060 N64-19775 12-23

REACTOR TECHNOLOGY - METALLURGY, FUEL ELEMENT PREPARATION, AND COMPONENT PRODUCTION METHODS
ANL-6868 N64-20474 13-18

FUEL RODS CLAD WITH STAINLESS-STEEL-LINED ZIRCALOY-2
GEAP-4555 N64-20520 13-23

PRESSURE DROP AND VIBRATION CHARACTERISTICS OF EIGHT-ROD URANIUM CARBIDE FUEL ELEMENT OF HALLAM NUCLEAR POWER FACILITY /HNPF/
NAA-SR-7475 N64-20668 13-23

EFFECT OF OXIDE DISSOLUTION AND HEAT TRANSFER ON CORROSION OF ALUMINUM-CLAD FUEL ELEMENTS
HW-77529 N64-20698 13-07

METALLOGRAPHIC AND RADIOGRAPHIC TECHNIQUES FOR EVALUATION OF CERAMIC NUCLEAR FUEL ELEMENTS
ORNL-3577 N64-22111 15-18

FABRICATION OF ZIRCALOY-2 CLAD THORIUM-URANIUM ALLOY FUEL ELEMENTS
HW-79843 N64-22501 15-18

BOILING BURNOUT HEAT FLUXES FOR REACTOR FUEL ELEMENT BUNDLES
HW-80391, REV. 1 N64-22946 16-26

FABRICATION OF ALUMINUM-BASE 250-MEGAWATT ADVANCED TEST REACTOR FUEL ELEMENTS
ORNL-3632 N64-23332 16-26

POWDER-ROLLING OF TUNGSTEN-URANIUM DIOXIDE DISPERSION ALLOY SHEETS FOR USE AS FUEL ELEMENTS
LA-2485 N64-24575 17-18

RELIABILITY AND INCREASE IN WORKING LIFE OF CONTROL AND FUEL-SUPPLY EQUIPMENT OF GAS TURBINE ENGINES N64-25436 17-04

INSPECTION AND ANALYSIS OF MATERIALS FOR NUCLEAR REACTOR FUEL CORES
NLCO-905 N64-25628 17-23

BIBLIOGRAPHY ON EFFECTS OF WATER VAPOR AND OTHER GASES ON REACTOR FUEL ELEMENTS
UCRL-7836 N64-25864 18-18

SYSTEM FOR NUCLEAR AUXILIARY POWER /SNAP/ PROGRAM FUELS USING ZIRCONIUM AND URANIUM SYSTEMS - BIBLIOGRAPHY
NAA-SR-9525, VOL. I N64-25866 18-18

REACTOR MATERIALS, FUEL ELEMENTS, RADIOISOTOPES AND RADIATION, FISSION PRODUCTS, AND MECHANICAL PROPERTIES OF ZIRCONIUM AND ALUMINUM ALLOYS
BNI-1672 N64-25947 18-19

REACTOR MATERIALS, ALUMINUM ALLOYS, FUEL MATERIALS AND FISSION PRODUCT DEPOSITION STUDIES
BNI-1669 N64-26546 18-23

CERAMICS AND FUEL ELEMENTS
HW-81600 N64-26690 18-19

REACTOR TECHNOLOGY - FUEL ELEMENTS, CORROSION, CREEP, ZIRCONIUM ALLOYS, AND GAS COOLED REACTOR
BNI-1674-/DEL/ N64-28017 20-18

FUEL ELEMENT FABRICATION - FISSIONABLE MATERIAL PARTICLES VAPOR-COATED WITH ALUMINUM OR BERYLLIUM OXIDE AND DISPERSED IN CERAMIC MATRIX
BNI-1675 N64-28124 20-18

PROTOTYPE FUEL ELEMENTS FOR GAS COOLED REACTOR SYSTEMS PROGRAM
IDO-28616 N64-28142 20-06

STABILITY OF ZIRCALOY CLAD URANIUM DIOXIDE FUEL ELEMENTS IRRADIATED TO HIGH BURNUP
CRFD-1178 N64-28256 20-18

MATERIAL BUCKLINGS OF CRITICAL AND SUBCRITICAL URANIUM CARBIDE FUELED GRAPHITE ASSEMBLIES
NAA-SR-9772 N64-28709 20-23

STRAIN FATIGUE TESTS ON THIN-WALL TUBING RELATED TO SERVICE LIFE OF NUCLEAR REACTOR FUEL ELEMENT
GEAP-4462 N64-29754 21-33

NEUTRON INTERACTING ARRAYS - HOMOGENEOUS URANIUM SOLUTION AND URANIUM METAL FUEL ELEMENTS
K-1619 N64-33009 24-23

FUEL FLOW
GRAVITY FLOW FILTERABILITY OF DISTILLATE FUELS
NRL-5971 N64-15072 07-17

MECHANICAL PROPERTIES OF ALUMINUM ALLOYS AND ALUMINUM-BASED FUEL DISPERSION AT HIGH TEMPERATURE
ORNL-3557 N64-16536 08-18

FUEL PORT CONFIGURATIONS FOR INCREASED FUEL FLOW
NASA-CR-58362 N64-29520 21-17

FUEL SYSTEM
COMPOSITE FIBER-METAL GASKET FOR SEALING IN FUEL SYSTEMS OF AEROSPACE VEHICLES - SEALANTS
ERR-FW-174 N64-18946 11-17

FUEL PORT CONFIGURATIONS FOR INCREASED FUEL FLOW
NASA-CR-58362 N64-29520 21-17

MULTIPURPOSE ENGINE AND FUEL SYSTEM FOR MANNED LUNAR BASES - ENERGY CONVERSION SYSTEMS
WANL-PR/S/002-8 N64-31150 22-10

EVALUATION OF COATING MATERIALS FOR FUEL SYSTEMS BY EXPOSURE TO MICROORGANISM-INOCULATED FUEL-WATER SYSTEM
QR-5 N64-32451 23-19

FUEL TANK
SA PROPELLANT TANK
SA STORAGE TANK
CF CONTAINER
CHEMICAL METHOD OF PROPELLANT TANK PRESSURIZATION
FTC-CR-63-23 N64-14687 06-27

MECHANISMS OF POTENTIAL AIRCRAFT FUEL TANK VENT FIRES AND EXPLOSIONS CAUSED BY ATMOSPHERIC ELECTRICITY
NASA-TN-D-2240 N64-15528 07-26

FUEL TANK REQUIREMENTS FOR GASEOUS FUEL NUCLEAR ROCKET
JPL-TR-32-441 N64-15782 07-27

F-111 AIRCRAFT FUEL TANK CHANNEL SEALANTS
FGT-3041 N64-16632 08-19

EVALUATION OF SEALANTS FOR F-111 AIRCRAFT FUEL TANK
FTDM-3125 N64-16636 08-19

CORROSION PROTECTION COATINGS FOR F-111 AIRCRAFT FUEL TANKS
FTDM-3126 N64-16637 08-19

SYNTHETIC ELASTOMER AS SEALANT FOR JET FUEL TANK
FTDH-3124 N64-20052 13-19

SCREENING TESTS OF CHANNEL SEALANTS FOR USE IN F-111 AIRCRAFT INTEGRAL FUEL TANKS
FTDH-3134 N64-20053 13-19

SCREENING TESTS OF SEALANTS & CORROSION PROTECTION COATINGS FOR F-111 AIRCRAFT INTEGRAL FUEL TANKS
FTDH-3165 N64-20057 13-19

TESTING SURFACE SEALANTS FOR F-111 AIRCRAFT FUEL TANKS
FTDH-3169 N64-20058 13-19

SCREENING TEST OF FILLETING AND FAYING SURFACE SEALANTS FOR INTEGRAL FUEL TANKS OF F-111 AIRCRAFT
FTDH-3210 N64-20064 13-19

SCREENING TESTS OF CORROSION PROTECTION COATINGS FOR USE IN F-111 AIRCRAFT INTEGRAL FUEL TANKS
FTDH-3211 N64-20065 13-17

ELASTOMERS FOR AIRCRAFT FUEL TANK COATINGS CONTAINING MICROORGANISM RESISTING ADDITIVES
RTD-TDR-63-4195 N64-22282 15-17

GASEOUS NUCLEAR ROCKET WITH MAGNETOHYDRODYNAMIC VORTEX FUEL CONTAINMENT
REPT.-6 N64-23252 16-27

HYDRODYNAMIC FORCES FROM SLOSHING LIQUID PROPELLANTS IN MISSILE FUEL TANKS
ONERA-TP-136 N64-24004 16-11

EXPERIMENTAL AIR DRY CORROSION RESISTANT COATINGS FOR FUEL TANKS
CCL-160 N64-25353 17-26

JUNCTION ANALYSIS FOR INTERSECTION OF FUEL TANK WALL, DOME, AND SKIRT STRUCTURE OF ROCKET PROPELLED BOOSTER VEHICLE
RR-51 N64-28004 20-34

MINIMUM FUEL AND OXIDIZER TANK ULLAGES FOR GEMINI LAUNCH VEHICLE
REPT.-0788-MU-1 N64-31887 23-27

FUEL TESTING
INSTRUMENT FOR DETERMINING CRUSHING STRENGTH OF FUEL PARTICLES
ORNL-3512 N64-11385 02-26

CERAMICS RESEARCH, FUEL DEVELOPMENT, TESTING, AND ANALYSIS - ABSTRACTS
HW-76303 N64-17221 09-19

FUME
S GAS

FUNCTION
S ASYMPTOTIC FUNCTION
S BESSEL FUNCTION
S CORRELATION FUNCTION
S DISCRETE FUNCTION
S DISTRIBUTION FUNCTION
S DISTURBING FUNCTION
S ELLIPTIC FUNCTION
S ERROR FUNCTION
S EXPONENTIAL FUNCTION
S FUNCTION TEST
S GAMMA FUNCTION
S GAUSS FUNCTION
S GREEN FUNCTION
S HANKEL FUNCTION
S HARMONIC FUNCTION
S HYPERGEOMETRIC FUNCTION
S INTEGRAL FUNCTION
S KERNEL FUNCTION
S LAGUERRE FUNCTION
S LIAPUNOV FUNCTION
S MATHIEU FUNCTION
S PERIODIC FUNCTION
S RATIONAL FUNCTION
S RENAL FUNCTION
S SPLINE FUNCTION
S STEP FUNCTION
S STRESS FUNCTION
S SWITCHING FUNCTION
S TIME FUNCTION
S TRANSFER FUNCTION
S TRIGONOMETRIC FUNCTION

FUNCTION SPACE
S EUCLIDEAN SPACE

FUNCTION TEST
CF DIAGNOSIS
CONTINUOUS FUNCTIONAL TESTING OF OXYGEN BREATHING EQUIPMENT
SAM-TDR-63-56 N64-12176 03-16

FUNCTIONAL ANALYSIS
SA BANACH SPACE
FUNCTIONAL ANALYSIS OF HUMAN ENGINEERING - PSYCHOLOGY
JPRS-21976 N64-10852 02-14

COMPUTER PROGRAM FOR SWITCHING CIRCUIT ANALYSIS - FUNCTIONAL ANALYSIS OF HYDRAULIC & ELECTRIC CONTROL CIRCUITS
LAMS-2986 N64-12114 03-20

CONSTRUCTION OF STATIONARY FUNCTIONALS FOR SOLUTION OF LINEAR BOUNDARY VALUE PROBLEM
AFCRL-63-784 N64-12295 03-23

LOCALIZATION PRINCIPLE FOR CLASS OF ANALYTICAL FUNCTIONS
MRC-427 N64-12995 04-20

SLOWLY VARYING FUNCTIONS WITH ASYMPTOTIC BEHAVIOR
MRC-432 N64-13823 04-20

OROGRAPHY OF NORTHERN HEMISPHERE EXPRESSED BY SPHERICAL FUNCTIONS
E-T-CH-63-8 N64-14363 06-12

STUDY OF EQUALITY OF FUNCTIONS AND THEIR FORMAL CONTINUED FRACTION EXPANSION
MRC-429 N64-16618 08-20

CONTINUED FRACTION THEORY APPLIED TO FUNCTION EXPANSION AND EFFECT OF REMAINDERS ON CONVERGENCE
MRC-423 N64-16623 08-20

HIGH & LOW PROBABILITY ELECTROEXPLOSIVE DEVICE FUNCTIONING LEVELS
NOLTR-63-266 N64-18643 11-26

COMPUTER PROGRAM FOR SOLVING COUPLED FIRST DEGREE DIFFERENTIAL EQUATIONS BY MATRIX SERIES EXPANSION
AECL-1898 N64-21018 14-20

SERIES EXPANSION METHODS IN THRESHOLD DETECTOR ACTIVATION DATA HANDLING
EUR-588.E N64-21209 14-23

SERIES EXPANSION FOR MODIFIED BESSEL FUNCTION AND APPLICATION TO DETECTION THEORY
P-2055-1 N64-21217 14-20

FRESNEL INTEGRAL EVALUATED BY TAYLOR SERIES EXPANSIONS
NASA-SP-3010 N64-23531 16-28

EXPANSIONS OF INTEGRALS OF BESSEL FUNCTIONS OF LARGE ORDER N64-27795 19-29

SOLUTIONS OF ORDINARY DIFFERENTIAL SYSTEMS EXTENDED TO GENERAL FUNCTIONAL DIFFERENTIAL EQUATIONS AND CONSIDERING STABILITY AND BOUNDEDNESS N64-28296 20-20

LAGRANGE MULTIPLIER TECHNIQUE FOR DETERMINING STATIONARY POINTS OF RANDOM FUNCTIONS WITH RANDOM CONSTRAINTS
NASA-CR-58593 N64-28890 20-20

ADDITIVE NONLINEAR FUNCTIONALS REPRESENTED BY LINEAR FUNCTIONALS USING ANALOG OF RIESZ THEOREM
TR-93 N64-32615 23-20

FUNGUS
SA YEAST
IDENTIFICATION OF CELL WALL SUBSTANCES IN ALGAE & FUNGI - SPACE FOOD FOR ASTRONAUTS
AMRL-TDR-63-72 N64-11461 03-16

FUNGUS GROWTHS IN AVIATION FUEL SYSTEMS
REPT.-252 N64-18148 10-16

CYTOCHEMICAL IDENTIFICATION AND LOCALIZATION OF POLYSACCHARIDE /CHITIN/ IN CELL WALLS OF FUNGI
AMRL-TDR-64-52 N64-29974 21-16

FURNACE
CF HEATER
VERTICAL SINTERING FURNACE WITH IMPROVED CHARACTERISTICS
JPRS-19429 N64-10656 01-18

ROTATING-SPECIMEN FURNACE FOR USE IN DETERMINING SPECTRAL & TOTAL EMITTANCE OF MATERIALS FROM MEASUREMENT OF RADIANT FLUX FROM SPECIMEN SURFACE
N64-10969 02-13

DETERMINATION OF RATE OF MASS TRANSFER BETWEEN FLUIDS IN SOLAR FURNACE CHAMBER ORIFICE
JPRS-18756 N64-11213 02-11

RADIATION HEAT EXCHANGE IN FLAME FURNACE WITH VARIOUS FUELS AND OPERATING CONDITIONS
N64-11975 03-13

CARBON AND HYDROGEN FURNACE DESIGNS FOR REDUCTION OF TUNGSTEN FOR INCLUSION IN HARD ALLOYS - METALLURGY
N64-12894 04-17

FAST RESPONSE GRAPHITE FURNACE AS A SOURCE OF BLACKBODY RADIATION FOR PYROMETER CALIBRATION
NASA-RP-121 N64-14861 06-23

ELECTRON BEAM FURNACE FOR MELTING AND PURIFYING REACTIVE AND REFRACTORY METALS - METALLURGY
BM-RI-6341 N64-14931 06-18

PROPANE FURNACE AS HEAT SOURCE IN HIGH TEMPERATURE VIBRATION TESTING N64-20257 13-10

FURNACE OXIDATION, AND ENVIRONMENTAL TESTING OF COATED NIOBIUM ALLOY FOILS
RDR-1325-7 N64-20856 14-18

RADIATION THERMOMETER FOR CONTROLLING AND REGULATING FURNACE TEMPERATURE DURING METAL ANNEALING
FTD-TT-63-64/1&2 N64-21943 15-15

AUTOMATIC REGULATION OF CONTINUOUSLY OPERATING METAL WORKING FURNACES
JPRS-25288 N64-26058 18-06

TEMPERATURE MEASUREMENT AND CONTROL IN ELECTRON BEAM FURNACE USING OPTICAL AND TWO-COLOR PYROMETERS
NRL-6062 N64-26914 18-15

OPTIMIZATION OF CHROMIUM-TITANIUM-SILICON COATING PROCESS FOR LABORATORY AND PILOT SCALE COATING FURNACES
ASD TDR-62-934, PT. II N64-27476 19-18

ULTRAHIGH VACUUM FURNACE AND AUXILIARY CONTROL EQUIPMENT FOR LONG TIME CREEP TESTS ON REFRACTORY ALLOYS - NIOBIUM ALLOY
NASA-CR-54123 N64-28051 20-18

METALLURGICAL HEAT TREATMENT TECHNIQUES & FURNACES
JPRS-25901 N64-28241 20-17

IMPROVEMENTS IN METALLURGICAL HEAT TREATMENT FURNACES N64-28243 20-17

PULSE SHAPING FOR SOLAR FURNACE
TN-63-23 N64-30615 22-10

EXTRACTING ALUMINUM OXIDE FROM BLAST-FURNACE SLAG
N64-31418 23-07

MATHEMATICAL MODEL OF ACTIVE HEAT EXCHANGE ZONE OF SHAFT FURNACE FOR SMELTING OXIDIZED NICKEL ORES
N64-31425 23-17

ELLIPTICAL RADIATION FURNACE APPARATUS FOR DETERMINATION OF DYNAMIC YOUNG MODULUS AND INTERNAL FRICTION UTILIZING TRANSVERSE FREE VIBRATION IN VACUUM
DMS-63-17 N64-31690 23-25

FURNACE OPERATIONS IN PREPARATION OF GALLIUM ARSENIDE WEB DENDRITES
AD-422273 N64-32580 23-17

FUSE
FIRING UNIT FOR INSENSITIVE EXPLOSIVES, INCLUDING FUZE RESPONDING TO CODE SIGNAL AND BRIDGEWIRE EXPLODING CONDUCTOR
ABL/X-103 N64-12669 04-06

DISINTEGRATION PITCH OF FUSE WIRE IN QUARTZ SAND
E-T-P-63-2 N64-18877 11-09

MAGNETIC CORE PROGRAMMER FOR ARMING COPPERHEAD II FUSE SYSTEM
TR-1215 N64-24213 16-06

GYROSCOPIC EFFECT IN BALL BEARINGS OF FUSE ARMING VANE
NOLTR-63-167 N64-26240 18-17

ANTIAIRCRAFT ARTILLERY SHELLS TO DESTROY MODERN AIRCRAFT - DELAY AND PROXIMITY FUSES
FTD-TT-64-166/1&2 N64-31106 22-10

OPTIMIZING SETBACK LEAF SYSTEMS FOR FUSE SAFETY IN PARACHUTE MALFUNCTION
NOL-TR-1233 N64-31110 22-04

FUSED METAL
DENSITY AND PURITY OF FUSED URANIUM DIOXIDE
DP-819 N64-10126 01-19

FUSELAGE
SA WING-FUSELAGE COMBINATION
CF AIRFRAME
EFFECT OF INSERTION POINT ON PERFORMANCE OF FUSELAGE-MOUNTED, PULSE-DURATION-MODULATED, ATTITUDE CONTROL DEVICE N64-10171 01-04

FUSELAGE TORSIONAL TEST OF ALUMINUM ALLOY MONOCOQUE CYLINDERS
FTDM-2879 N64-15572 07-33

SHEET MATERIALS FOR WING AND FUSELAGE OF SUPERSONIC TRANSPORTS
NASA-RP-183 N64-21279 14-04

MODERN FUSELAGE ANALYSIS - MATRIX FORCE METHOD
N64-21390 14-02

COMPUTATION OF SHEARING STRESSES AND STRAINS FOR FUSELAGE, WINGS, AND TAIL PLANES
N64-21697 15-33

STRESSED STATE OF ROUND-SECTION FUSELAGE UNDER TORSION IN WING REGION N64-23071 16-33

LIMIT ANALYSIS FOR AIRCRAFT FUSELAGE FRAMES SUBJECTED TO SHEAR FLOW AND VERTICAL LOAD
ARC-CP-705 N64-24927 17-33

DESIGN OF RON OF WINDOWS IN PRESSURIZED CYLINDRICAL FUSELAGE
ARC-R&M-3360 N64-25479 17-34

WIND TUNNEL TESTS OF XH-51 HELICOPTER FUSELAGE AND RIGID ROTOR
NASA-TN-D-2392 N64-25915 18-03

USE OF SCALE MODEL TO CONTROL FUSELAGE RESPONSE TO ACOUSTIC EXCITATION FROM PROPELLER SLIPSTREAM
N64-29269 21-33

FUSION
CALCULATION OF HEATS OF VAPORIZATION AND FUSION OF RARE GASES FROM ISOTHERMAL REVERSIBLE WORK REQUIRED TO COMPRESS FLUIDS
NAA-SR-8879 N64-10364 01-07

FUSIBILITY OF ANHYDROUS PERCHLORIC ACID SALTS - LITHIUM-CALCIUM & SODIUM-CALCIUM
FTD-TT-63-565/1&2&4 N64-11165 02-19

SYNTHESIS OF CRYSTALLIZED GEMS BY FUSING AMMONIA AND ALUM
E-T-F-63-5 N64-13987 05-25

DISLOCATION EFFECTS ON MICROSTRUCTURE OF INDIUM FUSED INTO GERMANIUM N64-15016 07-25

BIBLIOGRAPHY - FUSION WELDING OF ALUMINUM
SB-63-56 N64-15980 07-17

ELECTROCHEMISTRY OF FUSED SALTS
IS-667 N64-16672 08-06

FUSIBILITY OF NICKEL-CHROMIUM-NICKEL ALUMINUM SYSTEMS - LIQUIDUS CURVES
FTD-MT-63-174 N64-18690 11-25

THERMONUCLEAR PHENOMENA & RESEARCH PROJECTS
UCRL-11172 N64-19484 12-23

CONTROL OF THERMONUCLEAR REACTIONS
FTD-TT-63-915/1&3&4 N64-19749 12-24

THERMONUCLEAR RESEARCH IN WESTERN EUROPE
N64-19829 12-23

FUSION THERMIT WELDING - BIBLIOGRAPHY
SB-63-25 N64-20518 13-17

CONTROLLED THERMONUCLEAR REACTIONS FOR SPACE PROPULSION ENERGY SOURCE
ASD-TDR-63-696 N64-21793 15-27

ANNOTATED BIBLIOGRAPHY ON FUSION WELDING OF ALLOYS OF MAGNESIUM WITH LITHIUM AND THORIUM
SB-63-52 N64-23881 16-18

EFFECT OF DISCONTINUITIES IN FUSION WELDED BUTT JOINTS
ADR-02-14-64.1 N64-23892 16-18

ATOMIC AND MOLECULAR COLLISION CROSS SECTIONS IN CONTROLLED THERMONUCLEAR RESEARCH - BIBLIOGRAPHY
ORNL-3113, REV. N64-27948 20-23

INTEGRAL EQUATIONS FOR PROBLEM OF IRREGULAR FUSION OF GLASSY MATERIALS N64-30418 22-13

ACCELERATION FACTOR OF THERMONUCLEAR REACTIONS IN COMPRESSED HYDROGEN PLASMA
NASA-TT-F-8961 N64-30854 22-24

FUSION WELDING OF HEAT RESISTANT SINTERED ALUMINUM POWDER
JPRS-26793 N64-31473 23-18

CONTROL PROBLEMS AND APPLICATIONS OF THERMONUCLEAR REACTIONS
FTD-MT-64-230 N64-31775 23-23

G FORCE
SA ACCELERATION STRESS
PHYSIOLOGICAL REACTIONS TO ACCELERATION STRESS AND PROTECTIVE CLOTHING N64-13453 05-16

CENTRIFUGES FOR STUDYING LONG TERM ACCELERATION STRESS ON MAN AND ANIMALS N64-13465 05-16

G-FORCE EFFECTS ON VASCULAR SYSTEM STRUCTURE
JPRS-22956 N64-14134 05-16

ADAPTATION OF ORGANISMS TO WEIGHTLESSNESS AND MAXIMUM G-FORCES N64-23456 16-16

GADOLINIUM
K-SHELL INTERNAL CONVERSION COEFFICIENT OF 344-KEV E2 TRANSITION IN GADOLINIUM 152
IS-590 N64-14426 06-23

CHEMICAL AND PHYSICAL PROPERTIES OF CHROMIUM-GADOLINIUM SYSTEM
BM-RI-6503 N64-28695 20-18

GALACTIC RADIATION
ESTIMATES OF RADIATION DOSES IN SPACE FROM VAN ALLEN BELT RADIATION, GALACTIC COSMIC RADIATION, & SOLAR COSMIC RADIATION N64-11648 03-28

EDGE OF POLAR PLATEAU FOR GALACTIC COSMIC RAYS AND THEIR CHARGED ALBEDO
NASA-TN-D-2248 N64-17828 09-28

MAGNETOHYDRODYNAMICS STUDY TO RELATE GALACTIC MAGNETIC FIELD, GALACTIC RADIATION, AND GALACTIC STRUCTURE
NASA-CR-53468 N64-18169 10-05

EDGE OF POLAR PLATEAU FOR GALACTIC COSMIC RAYS AND THEIR CHARGED ALBEDO N64-18418 10-28

ASTRONOMY - INVESTIGATION OF GALACTIC AND SOLAR RADIATIONS N64-19261 11-01

DETECTION OF GALACTIC X-RAY EMISSION FROM COSMIC SOURCES N64-19262 11-05

GALACTIC RADIATION AND OCCULTATIONS OF RADIO STARS
PR-1 N64-28089 20-05

NUCLEAR EMULSION OF LOW-ENERGY GALACTIC COSMIC-RAY HYDROGEN AND HELIUM NUCLEI
NASA-RP-336 N64-31720 23-28

GALAXY
SA GALACTIC RADIATION
SA SOLAR SYSTEM
SA STAR
SA SUPERNOVA
COLORIMETRY OF GALACTIC CLUSTER NGC 6939 N64-10021 01-05

POLARIMETRIC AND COLORIMETRIC STAR, COMET, AND GALAXY OBSERVATIONS OF THE BYURAKAN OBSERVATORY N64-10026 01-05

COLORIMETRIC PHOTOMETRY OF GALAXIES NGC 2976, 3031, 3034, AND 3077 N64-10027 01-05

ABSOLUTE TWO-COLOR PHOTOMETRY OF GALAXY NGC 7331 N64-10028 01-05

GALACTIC MAGNETIC FIELD MEASUREMENT BY ZEEMAN SPLITTING OF 21-CM LINE N64-11408 02-05

GLOBULAR CLUSTER DISTRIBUTION IN GALAXY N64-13043 04-05

STELLAR POPULATION OF GALAXY NGC 3379, BASED ON MASS-LUMINOSITY RATIO AND SPECTROGRAMS N64-15174 07-05

MAGNETOHYDRODYNAMICS STUDY TO RELATE GALACTIC MAGNETIC FIELD, GALACTIC RADIATION, AND GALACTIC STRUCTURE
NASA-CR-53468 N64-18169 10-05

ATOMIC HYDROGEN EMISSION LINE OBSERVATIONS OF GALAXIES
HRAP-111 N64-18471 10-05

MODEL DISTRIBUTIONS OF ATOMIC HYDROGEN IN GALAXIES
HRAP-112 N64-18472 10-05

STELLAR AND GALACTIC EVOLUTION - GALACTIC ROTATION AND GRAVITY - MAGNETIC FIELDS N64-19344 12-05

GALACTIC AND EXTRAGALACTIC ORIGINS FOR COSMIC RADIATION
NASA-CR-53900 N64-19945 12-05

PLASMA PHYSICS, RADIATIVE AND CONVECTIVE HEAT TRANSFER IN PLANETARY ATMOSPHERES, STELLAR STRUCTURE, AND GALACTIC DYNAMICS
NASA-CR-53869 N64-19954 12-05

RADIAL VELOCITIES OF GALAXIES N64-21133 14-05

HYDROXYL ABSORPTION SPECTRUM IN SAGITTARIUS REGION OF GALAXY
HRAP-114 N64-24222 16-05

GALAXIES & STAR CLUSTERS IN UNIVERSE N64-24500 17-05

RADIAL DISCRETIZATION IN SPHERICAL GALAXIES - COSMOLOGY
RM-4110-RC N64-26425 18-05

INTERSTELLAR MATERIAL AND STRUCTURE OF GALAXIES N64-27198 19-05

SPATIAL VELOCITIES OF STARS FOR STUDY OF KINETICS AND DYNAMICS OF GALAXY N64-28385 20-05

GRAVITATIONAL POTENTIAL OF GALAXY N64-28386 20-05

ASTRONOMICAL PHOTOGRAPHY OF GALAXIES IDENTIFIED WITH RADIO SOURCES
AD-442604 N64-30015 21-05

THEORY OF STAR ESCAPE DURING COLLISION OF GALAXIES
NASA-RP-325 N64-31006 22-05

GALERKIN METHOD
GALERKIN METHOD OF SOLVING BOUNDARY VALUE PROBLEMS FOR CERTAIN TYPES OF LINEAR DIFFERENTIAL EQUATIONS
NASA-TT-F-195 N64-17722 09-20

GALERKIN METHOD AND DOUBLE P APPROXIMATION FOR CALCULATION OF THERMAL NEUTRON FLUX
EUR-533.I N64-20874 14-13

GALERKIN METHOD APPLIED TO SELF-ADJOINT, NON-POSITIVE DEFINITE EIGENVALUE PROBLEMS IN HYDRODYNAMIC STABILITY
RPI-MATH-REP.-66 N64-22713 15-11

CONVERGENCE OF GALERKIN METHOD FOR TAYLOR-DEAN FLOW STABILITY AND VISCOUS FLUID PROBLEMS
RPI-63 N64-33023 24-11

CONVERGENCE OF GALERKIN METHOD FOR TAYLOR-DEAN FLOW STABILITY PROBLEMS N64-33024 24-11

CONVERGENCE OF GENERALIZED GALERKIN METHOD FOR FLUID STABILITY PROBLEMS N64-33025 24-11

PANEL FLUTTER MOTION IN GAS WITH SUPERSONIC SPEED - GALERKIN METHOD
FTD-MT-63-136 N64-33031 24-33

FLUTTER OF CYLINDRICAL SHELL MOVING IN SUPERSONIC GAS FLOW - GALERKIN METHOD N64-33032 24-33

STABILITY OF FASTENED PANEL IN SUPERSONIC FLOW - GALERKIN METHOD N64-33033 24-33

GALLATE
EFFECT OF SODIUM GALLATE ON NUCLEIC ACID CONTENT OF ORGANS OF HEALTHY AND IRRADIATED RATS
JPRS-19355 N64-11217 02-16

PREVENTION AND TREATMENT OF ACUTE RADIATION SICKNESS IN DOGS WITH SODIUM GALLATE
JPRS-19269 N64-11349 02-16

RADIATION PROTECTION AND THERAPY FOR RADIATION SICKNESS - GALLATE THERAPY
JPRS-23834 N64-17555 09-16

GALLIUM
HOMOGENIZATION OF GALLIUM-STABILIZED DELTA PHASE PLUTONIUM
LA-2989 N64-17237 09-18

MAGNETOSTATIC MODES FOR MEASURING SATURATION MAGNETIZATION OF PURE AND GALLIUM SUBSTITUTED YTTRIUM-IRON GARNET
AFCRL-64-49 N64-18943 11-23

ELECTRICALLY TUNED FILTERS USING YTTRIUM-IRON-GARNET AND GALLIUM-DOPED YTTRIUM-IRON GARNET RESONATORS
W-J-64-609R24 N64-23961 16-09

SPECTRA OF GALLIUM-THALLIUM IODIDE FLASH LAMP
AD-437572 N64-24231 16-09

SOLVENT ACTIVITY IN RAOULT LAW REGION OF GALLIUM-CADMIUM SYSTEM
LA-2997 N64-26800 18-07

ELECTRON MICROPROBE METHOD TO DETERMINE GALLIUM IN DELTA-STABILIZED PLUTONIUM
LA-3125 N64-33065 24-07

EXCITED RADIATION FROM SEMICONDUCTOR ARSENIC-GALLIUM P-N JUNCTION N64-33996 24-25

GALLIUM ALLOY
NUCLEAR REACTOR INDIUM-GALLIUM RADIATION LOOP
FTD-TT-63-553/1&2&4 N64-16051 07-23

GALLIUM ARSENIDE
SINGLE CRYSTAL GALLIUM PHOSPHIDE PREPARATION BY EPITAXIAL DEPOSITION ON SINGLE CRYSTAL GALLIUM ARSENIDE FOR SOLAR CELL USE
NASA-CR-52140 N64-10111 01-06

SEMICONDUCTOR THIN FILMS - ANNEALING GALLIUM ARSENIDE
AD-423328 N64-11028 02-25

THERMAL DECOMPOSITION OF SINGLE CRYSTALS OF GALLIUM ARSENIDE
TDR-269/4250-11/-1 N64-12051 03-25

HIGH-SENSITIVITY SOLID-STATE LIGHT DETECTOR CONSISTING OF GALLIUM ARSENIDE PHOTOVOLTAIC CELL AND FIELD-EFFECT TRANSISTOR
NASA-CR-55164 N64-13068 04-25

PREPARATION OF MIXED CRYSTALS OF GALLIUM ARSENIDE AND GALLIUM PHOSPHIDE FOR CONSTRUCTION OF DIODES N64-13751 05-25

RECOMBINATION RADIATION & LASER ACTION IN GALLIUM ARSENIDE DIODES
TDR-169/3250-11/TN-2 N64-13843 05-25

OPTIMIZATION OF THIN FILM GALLIUM ARSENIDE JUNCTIONS OF PHOTOVOLTAIC BARRIERS IN SOLAR ENERGY CONVERTERS
NASA-CR-55741 N64-15877 07-06

DIFFUSION, SOLUBILITY, & DISTRIBUTION COEFFICIENT OF ZINC IN GALLIUM ARSENIDE & GALLIUM PHOSPHIDE
SEL-63-147 N64-16991 09-25

GERMANIUM AND GALLIUM ARSENIDE TUNNEL DIODE CONVERTERS N64-17430 09-06

CONSTRUCTION OF INJECTION LASER FROM SINGLE SEMICONDUCTING GALLIUM ARSENIDE CRYSTAL DIODE N64-17871 10-25

ELECTRICAL AND OPTICAL PROPERTIES OF DIODES PREPARED FROM DIFFUSION OF MANGANESE AND ZINC INTO GALLIUM ARSENIDE - LASERS N64-17873 10-25

DIODE FLUORESCENCE DETECTION OF ZINC DIFFUSION INTO RARE-EARTH DOPED GALLIUM ARSENIDE AND INDIUM PHOSPHATE N64-17875 10-25

SPECTRAL DISTRIBUTION OF NATURAL RECOMBINATION RADIATION OF GALLIUM ARSENIDE AT DIFFERENT TEMPERATURES
FTD-MT-63-34/1&2 N64-18668 11-25

GALLIUM ARSENIDE VARACTOR DIODES
AD-435643 N64-18740 11-09

FABRICATION AND PROPERTIES OF GALLIUM ARSENIDE ELECTROLUMINESCENT DIODE AND OPTICALLY COUPLED SILICON TRANSISTOR
AD-428185 N64-19812 12-25

DEGRADATION RATE IN GALLIUM ARSENIDE TUNNEL DIODES FOR FAILURE PREDICTION N64-20986 14-25

FAILURE MECHANISMS IN GALLIUM ARSENIDE TUNNEL DIODES N64-21000 14-09

EPITAXIAL GROWTH OF GALLIUM ARSENIDE AND GALLIUM PHOSPHIDE USING HETEROGENEOUS GAS-SOLID CHEMICAL REACTIONS
SEL-63-105 N64-21491 14-07

SEMICONDUCTOR MATERIALS - GALLIUM ARSENIDE AND GALLIUM ARSENIDE-GALLIUM PHOSPHIDE DIODE ARRAYS AND GROWTH OF BORON PHOSPHIDE CRYSTALS
AD-433725 N64-22056 15-25

CAPACITANCE-VOLTAGE BEHAVIOR OF ZINC-DIFFUSED GALLIUM ARSENIDE P-N JUNCTIONS
SSD-TDR-64-42 N64-22271 15-25

GALLIUM ARSENIDE TUNNEL DIODES FOR STATIC INVERTER

ASD-TR-63-681 N64-24134 16-09

CADMIUM TELLURIDE AND GALLIUM ARSENIDE THIN FILM PHOTOVOLTAIC CELLS
QPR-6 N64-24991 17-25

GALLIUM ARSENIDE TRANSISTOR
TI-08-63-157 N64-25037 17-09

PREPRODUCTION TESTING OF GALLIUM ARSENIDE VARACTOR DIODES
QPR-7 N64-26495 18-09

SURFACE STATES OF GALLIUM ARSENIDE SEMICONDUCTORS
RADC-TDR-64-168 N64-26919 18-25

GALLIUM ARSENIDE TUNNEL DIODE FABRICATION AND CIRCUIT DESIGN FOR TUNABLE OSCILLATOR
QPR-7 N64-27706 19-09

INTEGRATED GALLIUM-ARSENIDE DIODE ARRAYS - SEMICONDUCTOR MATERIALS
IER-3 N64-27746 19-09

SHELF LIFETIME OF SOME GALLIUM ARSENIDE SOLAR CELLS N64-28221 20-06

DAMAGE TO SILICON AND GALLIUM ARSENIDE SOLAR CELLS FROM LOW ENERGY PROTON IRRADIATIONS N64-29156 21-06

HIGH TEMPERATURE BEHAVIOR OF BOMBARDED AND UNBOMBARDED SILICON AND GALLIUM ARSENIDE CELLS OF VARIOUS RESISTIVITIES N64-29168 21-06

PUMPING OF CALCIUM FLUORIDE-DYSPROSIUM ION LASER USING GALLIUM ARSENIDE DIODES
NASA-CR-58645 N64-29407 21-09

GALLIUM ARSENIDE EPITAXIAL VARACTOR DIODES FOR HARMONIC GENERATION AND FORWARD BIAS SHOT NOISE
REPT.-16 N64-29636 21-09

IMPURITY STRIATIONS IN GALLIUM ARSENIDE CRYSTALS GROWN FOR USE IN LASERS
AD-442598 N64-29641 21-25

DEPOSITION OF EPITAXIAL SILICON ON GALLIUM ARSENIDE SUBSTRATES CONTROLLED BY ELECTRON BEAM EVAPORATOR
AL-TDR-64-135 N64-29643 21-25

DEFECT STRUCTURES IN QUENCHED AND ANNEALED GALLIUM ARSENIDE CRYSTALS
SEL-64-069 N64-29893 21-25

DIFFUSION, SOLUBILITY, AND DISTRIBUTION COEFFICIENT OF ZINC IN GALLIUM ARSENIDE AND GALLIUM PHOSPHIDE
SEL-63-104 N64-31045 22-25

HIGH-CURRENT GERMANIUM AND GALLIUM ARSENIDE TUNNEL DIODES
AD-421897 N64-31238 22-09

L-BAND GALLIUM ARSENIDE TUNNEL DIODE OSCILLATOR
REPT.-4 N64-31691 23-09

GALLIUM ARSENIDE EPITAXIAL VARACTOR DIODES FOR MICROWAVE HARMONIC GENERATION, AND MEASUREMENT TECHNIQUES FOR TRANSIENT MICROWAVE IMPEDANCE OF P-I-N DIODES
REPT.-17 N64-32569 23-09

FURNACE OPERATIONS IN PREPARATION OF GALLIUM ARSENIDE WEB DENDRITES
AD-422273 N64-32580 23-17

PHOTOVOLTAIC PROPERTIES OF VAPOR DEPOSITED POLYCRYSTALLINE GALLIUM ARSENIDE THIN FILMS N64-32728 24-06

GALLIUM PHOSPHIDE
SINGLE CRYSTAL GALLIUM PHOSPHIDE PREPARATION BY EPITAXIAL DEPOSITION ON SINGLE CRYSTAL GALLIUM ARSENIDE FOR SOLAR CELL USE
NASA-CR-52140 N64-10111 01-06

GROWTH OF SINGLE CRYSTAL GALLIUM PHOSPHIDE FOR SEMICONDUCTORS
AD-424770 N64-13079 04-15

PREPARATION OF MIXED CRYSTALS OF GALLIUM ARSENIDE AND GALLIUM PHOSPHIDE FOR CONSTRUCTION OF DIODES N64-13751 05-25

GALLIUM ARSENIC PHOSPHIDE SYNTHESIS BY HALOGEN VAPOR INTO LASER JUNCTIONS
AFCRL-63-552/8/ N64-13844 05-25

SINGLE CRYSTAL GALLIUM PHOSPHIDE FOR SOLAR CELLS
NASA-CR-55311 N64-13935 05-06

DIFFUSION, SOLUBILITY, & DISTRIBUTION COEFFICIENT OF ZINC IN GALLIUM ARSENIDE & GALLIUM PHOSPHIDE
SEL-63-147 N64-16991 09-25

SINGLE CRYSTAL GALLIUM PHOSPHIDE SOLAR CELL
NASA-CR-53986 N64-20585 13-25

EPITAXIAL GROWTH OF GALLIUM ARSENIDE AND GALLIUM PHOSPHIDE USING HETEROGENEOUS GAS-SOLID CHEMICAL REACTIONS
SEL-63-105 N64-21491 14-07

SEMICONDUCTOR MATERIALS - GALLIUM ARSENIDE AND GALLIUM ARSENIDE-GALLIUM PHOSPHIDE DIODE ARRAYS AND GROWTH OF BORON PHOSPHIDE CRYSTALS
AD-433725 N64-22056 15-25

SOLID SOLUTIONS OF QUASI-BINARY SYSTEM INDIUM PHOSPHIDE-GALLIUM PHOSPHIDE - CRYSTALLINE LATTICE IDENTIFICATION
FTD-TT-64-151/1&2 N64-28528 20-25

OPTICAL, ELECTRICAL, AND THERMAL PROPERTIES OF SOLAR CELLS FABRICATED FROM EPITAXIALLY GROWN SINGLE CRYSTAL GALLIUM PHOSPHIDE N64-29166 21-06

DIFFUSION, SOLUBILITY, AND DISTRIBUTION COEFFICIENT OF ZINC IN GALLIUM ARSENIDE AND GALLIUM PHOSPHIDE
SEL-63-104 N64-31045 22-25

GALVANOMAGNETISM
STANDARDIZATION OF HALL GENERATOR TERMINOLOGY AND GALVANOMAGNETIC EFFECTS N64-31498 23-09

GALVANOMETER
CF ELECTROMETER
BALLISTIC GALVANOMETER FOR MEASUREMENT OF MAGNETIC FIELD ON FERROMAGNETIC MATERIAL
FTD-TT-63-1/1&2&4 N64-23411 16-15

THRESHOLD SENSITIVITY OF GALVANOMETRIC AMPLIFIER N64-29132 21-15

PARAMETERS FOR FERRODYNAMIC GALVANOMETER N64-29134 21-15

GAME THEORY
CF ARTIFICIAL INTELLIGENCE
ZERO SUM GAME BETWEEN FINITE AUTOMATON AND PARTNER USING MIXED STRATEGY - APPLICATION OF VON NEUMANN THEOREM
JPRS-19243 N64-10584 01-20

ANALOG COMPUTER USE FOR SOLUTION OF EXTREMUM PROBLEMS IN PHYSICS - VIBRATION THEORY AND GAME THEORY
JPRS-19244 N64-10585 01-20

APPLICATION OF GAME THEORY OF WEAPON SYSTEMS AND WEAPON TRANSPORT VESSELS TO MILITARY OPERATIONAL PROBLEMS
JPRS-19374 N64-10820 02-20

APPLICATION OF THEORY OF GAMES TO PROBLEMS OF APPROXIMATION
EUR-124.F N64-11309 02-20

GAME THEORY APPLICATION TO PROBLEMS OF AUTOMATIC CONTROL N64-11613 03-20

APPLICATION OF THE THEORY OF GAMES TO PROBLEMS OF APPROXIMATION
STL-TRANS-72 N64-11960 03-20

GAMES SIMULATING SIMPLE COLLECTIVE BEHAVIOR WITH PAYOFF FUNCTION DETERMINED BY NEIGHBOR PLAYERS STRATEGIES
JPRS-22519 N64-12066 03-20

GAME THEORY - STABILITY OF VECTOR COALITIONS IN LINEAR PROGRAMMING
JPRS-23376 N64-15419 07-20

SAMPLING AND GAME THEORY APPLIED TO INSPECTION PLANS FOR DISARMAMENT AGREEMENTS
N64-15422 07-20

DECISION PROCEDURE FOR FINITE DECISION PROBLEMS UNDER COMPLETE IGNORANCE
MRC-445 N64-18377 10-20

PROBABILITY AND GAME THEORY
JPRS-23958 N64-18514 11-20

GAME THEORY AND OPTIMAL STRATEGIES FOR MATRIX DEFINITION N64-18515 11-20

GAME THEORY, SERVICE SYSTEMS WITH HEAVY WORK LOADS, AND MARKOV PROCESSES N64-18516 11-20

SOLUTION TO TWO-PERSON ZERO-SUM GAME THEORY PROBLEM USING BAYESIAN STATISTICAL METHOD
N64-19860 12-20

HUMAN BEHAVIOR IN FUNGUS EATER GAMES
ESD-TDR-64-237 N64-22267 15-14

OPTIMAL SOLUTIONS FOR GAMES WITH BLUFFING AND HIGH SPEED CONTROL
JPRS-25221 N64-26300 18-20

CYBERNETICS - CONTROL SYSTEMS, INFORMATION THEORY, AND GAME THEORY
JPRS-26341 N64-29733 21-20

LINEAR PROGAMMING METHODS FOR COOPERATIVE GAME THEORY N64-29738 21-20

GAME THEORY - BOUNDARIES AND ESTIMATES FOR ABRIDGING THE SEARCH OF ESTIMATES
N64-29739 21-20

GAME THEORY WITH UNKNOWN MATRIX
JPRS-26880 N64-32158 23-20

BIBLIOGRAPHY ON OPERATIONS RESEARCH & GAME THEORY
TDCK-36938 N64-32591 23-01

GAMMA FUNCTION
REGULAR AND LOGARITHMIC COULOMB WAVE FUNCTIONS, AND ARGUMENT OF GAMMA FUNCTION
REPT.-1565-4 N64-26533 18-23

MATHEMATICAL TABLES OF INCOMPLETE GAMMA-FUNCTION RATIO AND PERCENTAGE POINTS OF CHI-SQUARE DISTRIBUTION
ARL-64-123 N64-33952 24-20

GAMMA RADIATION
SA BREMSSTRAHLUNG
SA CERENKOV RADIATION
CF NUCLEAR RADIATION
CF SPACE RADIATION
PROPORTIONAL COUNTERS CONTAINING BORON TRIFLUORIDE FOR DETECTING WEAK NEUTRON FLUXES IN PRESENCE OF GAMMA RADIATION
EUR-300.F N64-10035 01-23

AERIAL RADIOLOGICAL MEASURING SURVEY OF LAS VEGAS AREA FOR GAMMA RADIATION LEVEL - RADIOACTIVITY DISTRIBUTION & GEOLOGICAL CORRELATION
CEX-61.6.1 N64-10129 01-23

MANGANESE 56 GAMMA-GAMMA COINCIDENCE COUNTING FACILITY FOR NEUTRON SOURCE ASSAY
ANL-6760 N64-10130 01-19

GRAPHICAL CALCULATION OF SHIELD THICKNESS FOR GAMMA RAY OVERDOSE PROTECTION
AEET/HP/TH-4 N64-10230 01-23

ANGULAR DISTRIBUTION OF PROMPT FISSION GAMMA RAYS WITH RESPECT TO SELECTED FISSION FRAGMENTS IN THERMAL NEUTRON FISSION OF URANIUM 235
AEET/NP/7 N64-10231 01-23

ATMOSPHERIC GAMMA RADIATION & CHLORINE FOR WATER PURIFICATION AND SANITATION
JPRS-21975 N64-10386 01-16

COMPARISON OF GAMMA ENERGY RESPONSE OF PORTABLE SCINTILLOMETER TO IONIZATION CHAMBER
UCRL-10986 N64-10397 01-15

RADIOLOGICAL SURVEY CORRELATING GAMMA RADIATION LEVEL WITH GEOLOGY
CEX-6164 N64-10407 01-16

IONIZATION CHAMBER FOR PRECISE DOSIMETRY OF ENVIRONMENTAL GAMMA AND COSMIC RADIATION
HASL-108 N64-10409 01-10

CLOSED SOURCES OF GAMMA RADIATION - RADIOACTIVE COBALT, ZINC, CESIUM, & IRIDIUM
JPRS-20129 N64-10512 01-07

RADIATION HAZARD IN X-RAY CLINICS, CAPACITOR DOSIMETER FOR X-RAY AND GAMMA RADIATION, AND ELECTROKYMOGRAPHS
JPRS-17533 N64-10561 01-16

EFFECT OF GAMMA RADIATION ON HISTOLOGICAL AND HISTOCHEMICAL STRUCTURES OF RAT SEX GLANDS
JPRS-22017 N64-10664 01-16

BIOMEDICAL CHARACTERISTICS OF GAMMA RADIATION SICKNESS IN RATS
JPRS-18153 N64-10744 02-16

EFFECTS OF X- AND GAMMA-IRRADIATION ON EXPERIMENTAL ANIMAL SUBJECTS N64-10935 02-16

PATHOGENIC EFFECT OF LOW & MEDIUM DOSES OF GAMMA RADIATION ON CARRION FLIES AND THEIR PROGENY
JPRS-22107 N64-11272 02-16

PROTON AND GAMMA IRRADIATION EFFECT ON FUNCTION OF VESTIBULAR ANALYZER IN DOGS
JPRS-22120 N64-11273 02-16

CONDITIONS OF COMPLETE INHIBITION OF ANTIBODY PRODUCTION IN MONKEYS AFTER GAMMA IRRADIATION IN LARGE DOSES
JPRS-22121 N64-11274 02-16

INTEGRATING MULTIPOINT REMOTE AREA SAFETY MONITOR FOR X-RAY AND GAMMA RADIATION SOURCES ABOVE 50-KEV
MATT-193 N64-11278 02-15

EFFECT OF PROTECTIVE-THERAPEUTIC COMBINATIONS ON GAMMA RADIATION SICKNESS IN RATS
JPRS-22123 N64-11358 02-16

ELECTRON SPIN RESONANCE STUDY OF FREE RADICALS PRODUCED DURING COBALT-60 GAMMA IRRADIATION OF ACETONITRILE
ASD-TDR-63-785 N64-11924 03-23

DIRECT DENSITY MEASUREMENT OF GAS BY GAMMA RAY SCATTERING
AEDC-TDR-63-187 N64-12080 03-23

AERIAL RECONNAISSANCE SURVEY FOR GAMMA RADIATION
CEX-62.6.1 N64-12119 03-21

ABSOLUTE GAMMA-RAY INTENSITIES FROM PHOTOFISSION OF URANIUM AND THORIUM AFTER ELECTRON BOMBARDMENT
RTD-TDR-63-3072 N64-12232 03-23

GAMMA RADIOACTIVITY OF RATS AND WATER PHANTOMS BY COBALT-60 AND CERIUM-144 N64-12435 04-16

SPECTRA OF GAMMA RAYS PRODUCED BY HIGH-ENERGY PROTON INTERACTION WITH BERYLLIUM, CARBON, COBALT, OXYGEN, ALUMINUM, & BISMUTH
ORNL-3506, SUMMARY N64-12544 04-23

BUILDUP FACTOR FOR GAMMA RAYS PENETRATING COMPARTMENTED STRUCTURES
USNRDL-TR-681 N64-12644 04-23

EFFECTS OF CHRONIC IRRADIATION ON CIRCULATION IN

WORKERS EXPOSED TO OVERDOSES OF X-RAYS AND GAMMA RAYS - INDUSTRIAL SAFETY
N64-12749 04-16

RESTORATION RATE OF CHROMOSOME MATERIAL IN YEAST CELLS AFTER GAMMA RADIATION
N64-12795 04-16

CALIBRATION AND TESTING OF GAMMA-RAY SCINTILLATION SPECTROMETERS AND MULTICHANNEL PULSE HEIGHT ANALYZERS
IDO-16923 N64-13167 04-15

HEMATOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL RESPONSE FROM MASSIVE DOSES OF MIXED GAMMA AND NEUTRON IRRADIATION IN GOATS
RTD-TDR-63-3077 N64-13827 05-16

AUTOMATIC PRECISION CURVED-CRYSTAL GAMMA-RAY SPECTROMETER
IS-575 N64-13947 05-15

CHANGES IN INFRARED SPECTRA OF POLYMERS AFTER GAMMA RAY IRRADIATION
N64-14082 05-23

TIME DEPENDENCE OF BETA DECAY, AVERAGE DISINTEGRATION ENERGY, & POST-BETA DECAY GAMMA EMISSION
LA-2811, ADDENDUM N64-14151 05-23

NEGATIVE PHOTODIODE EFFECT OF GERMANIUM DIODES EXPOSED TO GAMMA RADIATION
FTD-MT-63-88/1&2&3&4 N64-14377 06-25

ANOMALIES IN BEHAVIOR OF GAMMA-RAY RESONANCES INDUCED BY HYDROGEN MOLECULAR ION & PROTON BEAMS
NRL-5897 N64-14505 06-23

CHEMICAL ADDITIVES AND GAMMA RADIATION FOR CURING VINYLIDENE FLUORIDE-HEXAFLUOROPROPYLENE ELASTOMER
REPT.-63-3347 N64-14644 06-07

SHEAR STRENGTH AND STATIC BENDING OF WOOD-PLASTIC COMBINATIONS PREPARED BY GAMMA RADIATION POLYMERIZATION
ORO-612 N64-14710 06-07

EFFECT OF GAMMA RAYS ON POLYMETHYL METHACRYLATE
TIL/T-5400 N64-14748 06-19

SENSITIVE SODIUM IODIDE MONITOR FOR GAMMA RADIATION
DP-856 N64-14946 06-15

NEUTRON PROPERTIES, GAMMA-RAY SPECTRA, CAPTURE GAMMA RAYS, AND THE FISSION PROCESS - NUCLEAR PHYSICS WITH REACTOR NEUTRONS
ANL-6797 N64-15390 07-23

ACTIVATION ANALYSIS OF RADIOISOTOPIC NUCLIDES PRODUCED BY NEUTRONS, PROTONS, AND ALPHA & GAMMA RAY REACTIONS
AEET/ANAL/28 N64-15731 07-23

GAMMA-RAY SPECTRA FROM RADIATIVE CAPTURE OF 14 MEV NEUTRONS IN ALUMINUM-27
NIJS-R-420 N64-15913 07-23

EFFECTS OF PULSED GAMMA RADIATION ON DYNAMIC ELECTRONIC COMPONENTS
GA-4062 N64-16646 08-26

GAMMA RADIATION EFFECTS ON POLYMERS USED AS POTTING AND INSULATING COMPOUNDS
NASA-TM-X-54615 N64-16701 08-19

COMPUTER PROGRAM FOR QUANTITATIVE ANALYSIS BY NEUTRON ACTIVATION AND GAMMA-RAY SPECTROMETRY
EUR-531.E N64-16925 09-20

MEASURING GAMMA-RAY SPECTRA FROM THERMAL-NEUTRON CAPTURE
AFCRL-63-341 N64-17856 10-23

GAMMA RADIATION PHOTOCONDUCTIVITY DECAY IN ORGANIC DIELECTRIC MATERIALS
SCR-671 N64-18008 10-19

ELECTRON PARAMAGNETIC RESONANCE OF PARAMAGNETIC CENTERS IN AMINO ACIDS AND PROTEINS DUE TO GAMMA RADIATION
JPRS-23983 N64-18138 10-16

GRAPHIC DESCRIPTION OF GAMMA-RADIATION INTENSITY AS FUNCTION OF ANGLE OF EARTH CENTER FROM EXPLORER XI DATA
NASA-CR-53590 N64-18432 10-28

ATTEMPT TO OBSERVE MOSSBAUER RESONANCE OF 137 KEV GAMMA RAY OF IRON 57
LAMS-3053 N64-18491 10-23

GAMMA RADIATION TO DETERMINE SHIELDING EFFECTIVENESS OF SPACE VEHICLES AND USE OF RADIO ISOTOPES FOR FRACTURE STUDIES
TID-7689 N64-18797 11-23

GAMMA RADIATION TRANSMISSION TO DETERMINE SHIELDING EFFECTIVENESS OF SPACE VEHICLES
N64-18798 11-23

GAMMA RADIATION SHIELDING PROPERTIES OF FINITE STEEL SLABS
USNRDL-TR-707 N64-19116 11-23

RADIATIVE DECAY OF KAON TO PRODUCE TWO PIONS AND GAMMA RADIATION
UR-875-30 N64-19487 12-23

SEARCH INSTRUMENTS FOR NEUTRONS AND GAMMA RAYS FROM SOLAR SURFACE NUCLEAR REACTIONS
NASA-CR-53828 N64-19617 12-15

ENERGY DISTRIBUTION IN ATMOSPHERE BY DELAYED GAMMA RADIATION FROM FISSION OF URANIUM
LAMS-3059 N64-19720 12-12

GAMMA RADIATION BACKGROUND IN SALT MINE MEASURED WITH SODIUM IODIDE CRYSTAL DETECTOR AND MULTI-CHANNEL ANALYZER
UR-641 N64-19858 12-23

VACUUM SYSTEM AND DISTILLATION APPARATUS TO CONCENTRATE SOLUTIONS OF THERMAL DEGRADATION PRODUCTS RESULTING FROM GAMMA RADIATION IN RESINS
K-1594 N64-20481 13-07

SCINTILLATION SPECTROMETER RESPONSE TO GAMMA RADIATIONS OF NEUTRON DEFICIENT ISOTOPES
IDO-16969 N64-20504 13-23

ENVIRONMENTAL RADIOACTIVITY IN INDIA FROM NUCLEAR WEAPON TESTS - DATA ON GAMMA EMITTING ISOTOPES CESIUM 137 AND STRONTIUM 90 IN MILK AND FOOD
AEET-AM-39 N64-20621 13-23

AUTOMATIC SAMPLE CHANGER FOR GAMMA SCINTILLATION WELL DETECTOR
HW-80798 N64-20670 13-15

ADVANCED LASER CONCEPTS - ZEEMAN EFFECT LASERS, GAMMA LASERS, RAMAN SCATTERING LASERS AND OTHERS
AID-P-64-35 N64-20850 14-25

TEMPERATURE REACTION TO GAMMA RADIATION IN MONKEYS
N64-20945 14-16

CALIBRATION OF PROTOTYPE EXPLORER IV SATELLITE USING GAMMA RAYS, X-RAYS AND ELECTRONS OVER AZIMUTHAL AND INCLINATION ANGLES
WT-1671 N64-21490 14-32

EFFECTS OF COMPARTMENT WALLS ON NEUTRON AND GAMMA RAY DOSE RATES INSIDE COMPARTMENTED STRUCTURE OF NUCLEAR REACTOR
USNRDL-TR-722 N64-21505 15-23

ELECTRON RESONANCE ABSORPTION OF GAMMA IRRADIATED ALKALI METAL HYDROXIDE GLASSES
AD-433045 N64-21748 15-18

RADIATION-INDUCED REACTIONS IN SWOLLEN POLYMERS - GAMMA IRRADIATION
SRI-A-120 N64-21780 15-07

ATMOSPHERIC ENERGY DEPOSITION FROM HIGH ALTITUDE GAMMA RAY SOURCES
RM-3594-PR N64-21828 15-12

EDIBLE PROTEIN-VITAMIN COMPLEX FOR PROTECTION FROM

RADIATION SICKNESS, AND GAMMA RADIATION EFFECT ON VITAMIN CONTENT OF RAT LIVER AND BRAIN
FTD-TT-63-1064/1&2&4 N64-22363 15-16

RANGER III LUNAR PROBE STUDY OF GAMMA RADIATION FROM LUNAR SURFACE N64-22436 15-28

LITHIUM-DRIFT GERMANIUM P-I-N DIODES USED AS GAMMA RAY SPECTROMETERS
AECL-1960 N64-22500 15-25

RATE AND ENERGY RESPONSE OF RADIATION DOSIMETRY SYSTEMS TO GAMMA RAYS, ELECTRONS, AND FAST AND THERMAL NEUTRONS
S-237-R N64-22507 15-15

CALCULATION OF GAMMA RAY PENETRATION THROUGH SLAB SHIELDS BY MONTE CARLO METHOD
NRL-5981 N64-22546 15-23

RADIATION PROTECTION OF PERSONS WORKING NEAR GAMMA RADIATION THERAPEUTIC UNITS
N64-22731 16-16

SCINTILLATION CAMERA WITH LARGE SODIUM IODIDE CRYSTAL FOR OBSERVING POSITRONS AND GAMMA RADIATION EMITTED BY ISOTOPES N64-22858 16-16

GAMMA RAY DETECTION EFFICIENCY AND IMAGE RESOLUTION IN SODIUM IODIDE N64-22859 16-23

MEASUREMENT OF GAMMA RADIATION DOSE FROM CHANGE IN OPTICAL ACTIVITY OF IRRADIATED CARBOHYDRATES
FTD-TT-63-317/1&2&4 N64-23096 16-07

PARAMAGNETIC CENTERS IN GERMANIUM OXIDE GLASS CAUSED BY ELECTRON BOMBARDMENT AND GAMMA RADIATION
ORNL-3635 N64-23212 16-09

HIGH-LEVEL GAMMA-RAY DOSIMETRY
BN-RI-6465 N64-23259 16-23

THERMAL AND GAMMA RADIATION BEHAVIOR OF HEAT RESISTANT DYED FIBER
ML-TDR-64-77 N64-23964 16-23

NEUTRON AND GAMMA RADIATION EFFECTS ON FLIGHT CONTROL SYSTEMS
FDL-TDR-64-30 N64-24091 16-06

COMPUTER PROGRAM USING MONTE CARLO METHOD TO CALCULATE PRIMARY AND SECONDARY GAMMA RADIATION TRANSMISSION INFORMATION
REPT.-1223 N64-24879 17-20

NEUTRON AND GAMMA RADIATION EFFECTIVENESS IN PRODUCING PHOTOCONDUCTIVITY IN ORGANIC DIELECTRIC MATERIALS
SCR-670 N64-24893 17-23

RECORDING METHODS FOR X-RAY OR GAMMA RADIATION HYPERVELOCITY IMPACT STUDIES
REPT.-4728-1200-VI N64-25243 17-15

GAMMA RADIATION EFFECT ON THERMAL STRESS RESISTANCE AND REPRODUCTIVE SYSTEM IN RATS AND MAMMALS
AD-600960 N64-25308 17-16

RESTORATION OF ALBINO RAT HEMATOPOIETIC SYSTEM AFTER GAMMA RADIATION EXPOSURE N64-25309 17-16

EFFECTS OF CONTINUOUS AND FRACTIONATED LOW-INTENSITY GAMMA RADIATION ON ALBINO RAT ABILITY TO WITHSTAND ENVIRONMENTAL THERMAL STRESSES
N64-25311 17-16

EFFECT OF CONTINUOUS OR FRACTIONATED LOW INTENSITY GAMMA RADIATION ON RESISTANCE TO THERMAL STRESS IN ALBINO RAT N64-25312 17-16

GAMMA RAY DETECTOR FOR COUNTING SMALL ANIMALS IN METABOLISM CAGE
LF-14 N64-26030 18-15

MONTE CARLO CODE FOR DESCRIBING TIME-DEPENDENT PHOTON TRANSPORT IN RESISTORS & CAPACITORS UNDER TRANSIENT GAMMA RADIATION EFFECT
AFWL-TDR-64-37 N64-26208 18-23

TRIODE AMPLIFIERS - OUTPUT VOLTAGE TRANSIENTS INDUCED BY PULSED NEUTRON AND GAMMA RADIATION
TR-1197 N64-26249 18-09

GAMMA RADIATION EFFECTS ON POLYETHYLENE TEREPHTHALATE
NASA-TT-F-9008 N64-27229 19-07

ANALOG COMPUTER ANALYSIS OF EFFECTS OF TRANSIENT GAMMA RADIATION ON MULTIPLE CIRCUITS
WL-TDR-64-41 N64-27424 19-09

SCATTERED RADIATION FROM COBALT 60 SOURCE IN BRICK STRUCTURE
SAM-TDR-64-14 N64-27474 19-23

MONTE CARLO METHOD FOR ANALYSIS OF GAMMA RADIATION TRANSPORT FROM DISTRIBUTED SOURCES IN SHIELDING OF LAMINATED MATERIAL
FOA-4-A-4354-411 N64-28689 20-20

COLUMNAR AIR MASS BETWEEN PAIRS OF POINTS IN ATMOSPHERE AND VOLUME PRODUCTION RATE OF ION PAIRS DUE TO GAMMA RAYS FROM DECAYING FISSION DEBRIS
RM-4142 N64-28820 20-23

REACTION OF SQUALENE /LIQUID HEXAMER/ TO GAMMA RADIATION
USNRDL-TR-671 N64-28871 20-19

MAGNETIC PROPERTIES OF SOLID INORGANIC COMPOUNDS IN FIELD OF INTENSE GAMMA RADIATION
FTD-TT-63-424/1&2&4 N64-29276 21-25

FABRICATION OF STANDARD COBALT 60 GAMMA RADIATION SOURCE
BNL-848/T-334 N64-29658 21-10

PINHOLE GAMMA RADIATION CAMERAS
NAA-SR-9924 N64-29771 21-15

EFFECT OF IONIZING RADIATION ON BIOCHEMISTRY OF MAMMALIAN TISSUE - PHARMACOLOGICAL & TOXICOLOGICAL AGENTS FOR RADIATION PROTECTION - EFFECT OF GAMMA & NEUTRON IRRADIATION ON ANIMAL LIFESPAN
QPR-52 N64-29872 21-16

EFFECT OF GAMMA AND X-RADIATION ON MULTIPLIER PHOTOTUBES
USNRDL-TR-763 N64-29875 21-23

ELECTROCHEMICAL CORROSION BEHAVIOR OF STAINLESS STEEL AND NICKEL IN SULFURIC ACID SOLUTIONS SUBJECTED TO GAMMA RADIATION
FTD-MT-63-126 N64-30157 21-07

SILVER-ACTIVATED PHOSPHATE-GLASS DOSIMETER TO MEASURE WIDE RANGE OF GAMMA RADIATION DOSAGE
NDL-SP-6 N64-30193 21-15

NUCLEAR REACTION PRODUCTS IN SOLAR FLARE REGIONS - GAMMA RAYS AND NEUTRON N64-30301 22-28

VARIATIONS OF NEUTRON FLUX LEVEL AND GAMMA RADIATION DOSE BETWEEN AXIS AND SKIN OF AGENA D WITH SNAP-10 A AND SNAP-2 POWER SYSTEMS
QPR-3 N64-30539 22-06

TRANSMISSION OF GAMMA RADIATION THROUGH THIN FINITE SLABS - MEASUREMENTS ON IRON AND CONCRETE SHIELDING USING COBALT 60 AND CESIUM 137 SOURCES
AD-603413 N64-30683 22-23

APPROXIMATE GAMMA TRANSMISSION AND DOSE BUILDUP FOR THIN SHIELDS FROM SCATTERED RADIATION
TO-B-64-44 N64-30684 22-23

CALIBRATION OF PHOTOGRAPHIC FILM DOSIMETERS FOR HIGH ENERGY GAMMA RADIATION
AERE-R-4168 N64-30874 22-15

RADIATION DETECTOR SYSTEM FOR DEFINING LOCATION, CURIE STRENGTH AND ENERGY LEVEL OF GAMMA-EMITTING SOURCES
AFSWC-TDR-63-28 N64-31047 22-23

COMPUTER PROGRAM USING MONTE CARLO METHOD FOR REFLECTION AND TRANSMISSION OF GAMMA RAYS AND NEUTRONS IN HOMOGENEOUS AND HETEROGENEOUS SLABS

TO-B-63-73 N64-31251 22-23

OXALIC ACID DOSIMETER FOR MEASURING MEGARAD DOSES OF GAMMA RADIATION
USNRDL-ER-14 N64-31283 22-17

GAMMA RADIATION EFFECTS ON CYCLIC ALKANES AND ALKENES
USNRDL-TR-691 N64-31293 22-07

LOW COST GAMMA RADIATION SURVEY METER
AD-447857 N64-32146 23-15

GAMMA IRRADIATION EFFECTS ON RUBY LASER CHARACTERISTICS - MATHEMATICAL MODEL
NSF-7 N64-32322 23-25

RADIATION SAMPLING OF ALPHA, BETA, AND GAMMA PARTICLES IN AIR, WATER, AND MELTED SNOW TO DETERMINE RADIATION HAZARD
NDL-TR-63 N64-32872 24-21

GAMMA PROBING TO DETERMINE SHIELDING EFFECTIVENESS OF SPACE VEHICLES
NASA-CR-38783 N64-32887 24-28

MOSSBAUER EFFECT OF LOW ENERGY GAMMA RADIATION ON IRON NUCLEUS
JPRS-27049 N64-33140 24-25

COMPUTER PROGRAM FOR ANALYSIS OF GAMMA RAY SPECTRA FOR IDENTIFICATION OF RADIOISOTOPES IN NEUTRON ACTIVATION ANALYSIS OF METEORITES
NASA-CR-58970 N64-33205 24-23

COMPUTER PROGRAM FOR DETERMINATION OF HEATING OF PERIPHERAL COMPONENTS OF TORY II-C REACTOR BY GAMMA RADIATION - MONTE CARLO METHOD
UCRL-12005 N64-33239 24-23

HIGH RANGE GAMMA RAY SURVEY METER TO MEASURE EXPOSURE RATES
AECL-2042 N64-33473 24-15

LOW ENERGY GAMMA RAYS FROM PROTON CAPTURE IN TITANIUM STABLE ISOTOPES N64-33814 24-23

NEUTRON THRESHOLD DETECTOR SYSTEM AND GAMMA DOSIMETRY TECHNIQUE TO MEASURE RADIATION ENVIRONMENT OF REACTOR
NDL-TR-59 N64-33826 24-23

GAMMA RAY BEAM

CALIBRATION AND TESTING OF GAMMA-RAY SCINTILLATION SPECTROMETERS AND MULTICHANNEL PULSE HEIGHT ANALYZERS
IDO-16923 N64-13167 04-15

ANGULAR DISTRIBUTION OF GAMMA RAY EMISSION IN SLOW NEUTRON FISSION OF URANIUM-235 AND PLUTONIUM-239
KFKI-16/1963 N64-15988 07-23

MONTE CARLO COMPUTATION OF 1-MEV GAMMA RAY SCATTERING BY CONCRETE SLABS
TO-B-64-31 N64-25815 17-23

ENERGY AND ANGULAR DISTRIBUTION OF RADIATION EMERGING FROM TEST SLABS IRRADIATED WITH NARROW BEAM OF NEUTRONS AND GAMMA RAYS
NARF-62-16T N64-28907 20-23

SCINTILLATION SPECTROMETRY GAMMA-RAY SPECTRUM CATALOG - MASTER INDEX AND GRAPHIC DATA
IDO-16880-2 N64-30674 22-23

EXAMINATION OF DECAY CHARACTERISTICS OF STRONTIUM BY GAMMA RAY SCINTILLATION SPECTROMETRY AND BETA RAY PROPORTIONAL COUNTING
USNRDL-TR-733 N64-33523 24-23

GAP

DISCRIMINATION OF SPURIOUS TRACKS IN SCINTILLATION COUNTER
LNF-63/65 N64-13423 05-23

SPARK GAP FOR CAPACITOR BANK SWITCHING
ARL-63-219 N64-14365 06-09

VARIABLE-DRIFT BIASED-GAP KLYSTRON AS HIGH EFFICIENCY AMPLIFIER
ESD-TDR-64 N64-27376 19-09

SPARK GAP STUDIES - ELECTRODE EROSION MEASUREMENTS USING COPPER-TUNGSTEN MATERIAL AND TRIGGERING SCHEME EVALUATION
USAELRDL-TR-2454 N64-27771 19-09

INTERACTION OF TWO ELECTRON BEAMS IN GAPS OR HELICES
SU-SEL-63-137 N64-29529 21-24

SHAPE OF ELECTRIC ARC DISCHARGE ROTATED IN ANNULAR GAP BY EXTERNAL MAGNETIC FIELD
NASA-TN-D-2155 N64-32276 23-24

SPARK GAP TRIGGER CIRCUIT FOR ADONE DEFLECTOR
LNF-64/39 N64-32743 24-09

GARNET

S YTTRIUM-ALUMINUM GARNET /YAG/ CRYSTAL

GAS

SA AIR
SA ATMOSPHERE
SA ATOMIC GAS
SA ELECTRON GAS
SA GASEOUS DIFFUSION
SA GASEOUS IONIZATION
SA HOT GAS
SA IDEAL GAS
SA INERT GAS
SA LORENTZ GAS
SA RARE GAS
SA RAREFIED GAS
SA REAL GAS
SA VAPOR

BIBLIOGRAPHY OF LITERATURE OF DETECTION INSTRUMENTS USED TO MONITOR TOXIC GAS CONCENTRATION IN ATMOSPHERE
SID-63-755 N64-10137 01-16

DETECTION INSTRUMENTS FOR TOXIC GASES, VAPORS, AND DUSTS
JPRS-21771 N64-10205 01-16

SAMPLING METHODS FOR DETERMINATION OF GASEOUS AIR POLLUTANTS N64-11056 02-21

OPTICAL PUMPING OF GASES, ARTIFICIALLY ACCELERATED PARTICLES, & COSMIC RADIATION
JPRS-19547 N64-11070 02-23

OPTICAL PUMPING OF GASES AND APPLICATIONS TO STUDY OF ENERGY LEVELS, MAGNETIC FIELD, AND TIME MEASUREMENTS N64-11071 02-23

TRANSPORT PROPERTIES AND SCATTERING IN MOLECULAR GASES
NASA-CR-52874 N64-11295 02-23

HIGH SPEED FLOW IN LOW-DENSITY, HYPERSONIC WIND TUNNELS WITH PLASMA GENERATORS
AEDC-TDR-63-241 N64-11440 03-24

TEMPERATURE PROFILE & HEAT TRANSFER IN RADIATION-ABSORBING GRAY GAS ENCLOSED BETWEEN PARALLEL FLAT PLATES WITH FLOW AND CONDUCTION
NASA-TR-R-154 N64-11558 03-13

RADIANT HEAT TRANSFER TO ABSORBING GRAY GASES IN CIRCULAR PIPE WITH CONDUCTION, GAS FLOW, AND INTERNAL HEAT GENERATION
NASA-TR-R-156 N64-11559 03-13

CALIBRATION OF ARGON GAS NEUTRON ACTIVATION SAMPLING DEVICE
NASA-RP-97 N64-11951 03-15

MASS AND ENERGY TRANSFER IN GRAY GASES N64-11982 03-13

GAS ANALYSIS SYSTEM FOR MEASURING KINDS AND QUANTITIES OF GASES EVOLVED BY ELECTRON TUBES
AFCRL-63-335 N64-12053 03-07

STAGNATION POINT HEAT TRANSFER IN A RELAXING GAS
TDR-269/4305/-1 N64-12061 03-13

ULTRAHIGH-VACUUM GAS INLET VALVE IN PRODUCTION OF NONSTATIONARY PRESSURE DISTRIBUTIONS IN THE C-STELLARATOR
MATT-225 N64-12090 03-06

DISSIPATION PROCESSES AND DEPARTURE FROM EQUILIBRIUM DURING IRREVERSIBLE PROCESSES IN DILUTE GASES
SUDAER-169 N64-12130 03-23

TWO-DIMENSIONAL TRIANGULAR LATTICE GAS - MONTE CARLO CALCULATIONS IN SUPERCRITICAL REGION
N64-12168 03-23

STATE EQUATIONS FOR DIFFERENCE IN SPECIFIC HEATS & CHANGE IN ENTROPY OF GASES
RS-TR-63-5 N64-12243 03-23

CONVECTIVE HEAT TRANSFER RATE TO SHOCK TUBE END WALL FROM MONATOMIC GAS HEATED BY REFLECTED SHOCK - IONIZATION EFFECTS
BSD-TDR-63-47 N64-12253 03-11

IN VIVO METHOD FOR QUANTITATIVE ESTIMATION OF TOTAL GAS PRESSURE IN MAMMALIAN TISSUE
CARI-63-11 N64-12346 03-16

FAST ELECTROMAGNETICALLY OPERATED VALVE FOR ADMITTING GAS INTO EVACUATED SYSTEMS
LA-2978 N64-13022 04-17

GAS PRODUCTION BY SILVER OXIDE-SILVER ELECTRODES & POWDERS
NASA-CR-53002 N64-13285 04-06

THERMODYNAMIC & TRANSPORT PROPERTIES OF GASES AT HIGH TEMPERATURES AND PRESSURES - SQUID PROJECT
N64-13480 05-24

THERMOCONDUCTIVITY OF GASES & LIQUIDS OVER RANGE OF TEMPERATURES AND PRESSURES - SQUID PROJECT
N64-13482 05-24

LIGHT GAS TWO-STAGE HYPERVELOCITY ACCELERATOR
N64-13513 05-23

HYPERVELOCITY ACCELERATOR - FACILITY, DESIGN, AND DESCRIPTION OF LIGHT GAS GUN N64-13515 05-23

GAS ANALYZER TO DETERMINE EFFECTS OF GAS IMPURITIES ON CESIUM DIODES N64-14208 06-06

VELOCITY DECREMENT OF DETONATION WAVE IN GASEOUS EXPLOSIVE BOUNDED BY INERT GASEOUS MEDIUM
AROD-3559-1 N64-14323 06-26

TWO FORMS OF DYNAMIC EQUATIONS FOR COMPONENTS OF PARTIALLY IONIZED MONATOMIC GASES
AD-428797 N64-14473 06-24

RAYLEIGH SCATTERING OF RUBY LASER BEAMS BY LIGHT GASES
AFCRL-63-549 N64-14684 06-25

RADIATING LAMINAR BOUNDARY LAYER FLOW OF GREY GAS OVER FLAT PLATES
PIBAL-812 N64-15765 07-24

RELATION BETWEEN THERMOCONDUCTIVITY AND VISCOSITY FOR NONPOLAR GASES - COLLISION NUMBERS FOR ROTATIONAL RELAXATION
NASA-RP-134 N64-15842 07-23

TWO-DIMENSIONAL GRAY-GAS RADIANT HEAT TRANSFER IN COAXIAL-FLOW GASEOUS REACTOR
NASA-TN-D-2124 N64-15909 07-13

HEAT TRANSFER AT STAGNATION POINT OF CYLINDER IN IONIZED MONATOMIC GASES & EFFECT OF FREE ELECTRONS ON THERMOCONDUCTIVITY
AFOSR-5442 N64-15950 07-24

EXPLOSION TEMPERATURES AND LIMITS OF CHLORINE-HYDROGEN MIXTURES IN HYDROGEN CHLORIDE
FTD-TT-62-1415/1&2 N64-16052 07-26

DOUBLE SHOCK TUBE METHOD FOR SIMULTANEOUS DETERMINATION OF HIGH PRESSURE AND TEMPERATURE OF ENCLOSED GAS
SSD-TDR-63-368 N64-16129 08-11

SYSTEMATIC METHOD FOR PRODUCING DENSE GASES WITH DIATOMIC RADICALS
NBS-8180 N64-16650 08-07

ANALYSIS OF SHEET MOLYBDENUM FOR GAS CONTENT
N64-17024 09-07

DIFFUSION AND ABSORPTION OF GASES IN PLASTIC-WALLED IONIZATION CHAMBERS N64-17109 09-23

DEPENDENCE OF INFRARED ABSORPTANCE ON PARTIAL PRESSURE FOR CARBON DIOXIDE & WATER - COMBUSTION GAS ANALYSIS FOR PROPULSION RESEARCH
NASA-CR-54002 N64-17598 09-26

GASEOUS ENVIRONMENT AND ATELECTASIS - RESPIRATORY PHYSIOLOGY N64-17955 10-16

SPECTRA OF SOLAR GASEOUS MATERIALS AND INTENSITY OF SOLAR FLARES
AFCRL-64-51 N64-18021 10-28

ADSORPTION OF GASES ON SOLID SURFACES IN HIGH VACUUM
AFCRL-64-113 N64-18187 10-23

MILLIMETER-WAVE AMPLIFICATION PRODUCED BY RESONANCE ABSORPTION OF GAS
RADC-TDR-63-562 N64-18363 10-09

GAS ADSORPTION ON ORGANIC SURFACE - NITROGEN AND CARBON MONOXIDE ON CYCLOTETRAMETHYLENE TETRA-NITRAMINE /HMX/
PA-TR-3092 N64-18381 10-19

LAMINAR BOUNDARY LAYERS WITH INJECTION OF ANOTHER MEDIUM IN GASES
RAE-TRANS-1055 N64-19089 11-11

EFFECT OF MODIFYING GAS-ELECTROLYTE INTERFACE BY PULSES ON FUEL CELL PERFORMANCE
NASA-CR-54031 N64-19223 11-06

HIGH TEMPERATURE THERMOPHYSICS - LIQUID METALS, GASEOUS HEAT TRANSFER, AND PLASMA GENERATORS
FTD-TT-63-1090/1 N64-19755 12-23

RADIO-RELEASE REACTION OF WATER VAPOR WITH RADIOACTIVE CALCIUM CARBIDE FOR MEASURING SMALL AMOUNT OF WATER VAPOR IN UPPER ATMOSPHERE
ORO-591 N64-19923 12-07

INTERPLANETARY GAS AND EARTHS OUTERMOST ATMOSPHERE N64-20754 14-12

SOURCE OF GAS EVOLUTION FROM LUNAR CRATER ALPHONSUS N64-20898 14-29

PROTECTION OF NIOBIUM FROM HIGH TEMPERATURE GAS CORROSION
FTD-TT-62-1251/1&2 N64-21648 15-17

LINEAR PROPORTIONAL CONTROL HOT GAS VALVE FOR LIQUID ROCKET CHAMBER BLEED SYSTEM
TR-3137 N64-21678 15-17

DISPERSE ATOMIZATION IN NOZZLES OPERATING ON PRINCIPLE OF BILATERAL WASHING OF LIQUID SURFACE WITH GAS
FTD-TT-63-290/1&2&4 N64-22346 15-11

THERMODYNAMICS, HEAT TRANSFER, AND COMBUSTION CHARACTERISTICS OF GASES
FTD-TT-63-922/1&4 N64-22357 15-13

COMPARISON OF SHOCK AND ISENTROPIC HEATING IN LIGHT-GAS GUN COMPRESSION
NRL-6083 N64-22956 16-11

LIGHT RADIATION PRESSURE ON DUST AND GAS - INTERSTELLAR MOTION AND STRUCTURE OF NEBULAS
N64-23182 16-29

INFRARED ANALYSIS OF GASES PRODUCED DURING MOLTEN

SALT ELECTROLYSIS OF METALS
BM-RI-6476 N64-23242 16-23

GASEOUS NUCLEAR ROCKET WITH MAGNETOHYDRODYNAMIC VORTEX FUEL CONTAINMENT
REPT.-6 N64-23252 16-27

EFFECTS OF TITANIUM, ALUMINUM, & GAS CONTENT ON MECHANICAL PROPERTIES OF NIMONIC ALLOY
JPRS-25005 N64-23253 16-33

ENTRAPMENT AND LOSS OF ELECTRONS DURING PASSING OF FAST ATOMS IN MOLECULAR GAS
FTD-TT-63-1055/1&2 N64-23313 16-23

THERMOCHEMICAL GAS ANALYZER FOR CONTINUOUS DETECTION OF OXYGEN
FTD-TT-62-1554/1&2&4 N64-23445 16-15

STIFFENING EXPANDABLE STRUCTURE VIA GAS CATALYSIS
N64-23711 16-19

HOT GAS JET REACTION VALVE USING BOUNDARY LAYER CONTROL TECHNIQUE OF HIGH PRESSURE & TEMPERATURE GAS STREAM N64-23829 16-33

GAS AND CRYOSURFACE TEMPERATURE EFFECT ON CAPTURE COEFFICIENT OF SIX GASES
AEDC-TDR-64-84 N64-24178 16-13

INTERSTELLAR MATERIALS, GAS, & LUMINOSITY
N64-24498 17-05

BOGOLIUBOV THEORY OF IRREVERSIBLE PROCESSES IN CLASSICAL GASES AND HOMOGENEOUS SYSTEMS
AD-429541 N64-25087 17-07

DIFFUSION EXPERIMENT TO DETERMINE CROSS SECTION FOR ELECTRON-GAS COLLISIONS
AROD-3331-5 N64-25093 17-23

SHOCK WAVE RADIO EMISSION NEAR EARTH AND IN INTERPLANETARY GAS
NASA-TT-F-8699 N64-25278 17-05

HIGH POWER GASEOUS ELECTRONICS
QPR-5 N64-25819 17-09

BIBLIOGRAPHY ON EFFECTS OF WATER VAPOR AND OTHER GASES ON REACTOR FUEL ELEMENTS
UCRL-7836 N64-25864 18-18

STATE EQUATION OF GASES AT HIGH TEMPERATURES AND DENSITIES N64-25873 18-23

SELF-IGNITION FLAME AND DETONATION GASES
NASA-TT-F-125 N64-25875 18-26

METHODS TO SOLVE EQUATIONS FOR FLUCTUATION PHENOMENA IN LOW DENSITY GAS
AD-600763 N64-26027 18-11

LOW FREQUENCY ELECTROMAGNETIC CONDUCTIVITY OF LOW DENSITY HIGH TEMPERATURE PLASMA
RM-3755-PR N64-26049 18-24

UNSTEADY SHOCK WAVE PROPAGATION IN RELAXING GAS
N64-26128 18-11

IONIZATIONAL RELAXATION FOR MODERATELY STRONG SHOCKS IN MONATOMIC GASES
N64-26150 18-24

EVALUATION OF POROUS MATERIALS AS MOLECULAR LEAKS
AEDC-TDR-64-94 N64-26189 18-15

ELECTRON IMPACT IONIZATION AND ATTACHMENT IN POLYATOMIC GASES, AND CORONA-INDUCED WEIGHT LOSS IN MYLAR AND H FILMS
ML-TDR-64-57 N64-26308 18-07

HEAT TRANSFER TO GAS CONTAINING CLOUD OF PARTICLES
NASA-CR-58088 N64-26361 18-13

GAS NOISE SOURCE FOR MILLIMETER WAVELENGTH
QPR-2 N64-26709 18-17

EFFECT OF NONISOTHERMAL AND NONGRAY GAS ON EMISSIVITY AT CENTER OF BASE OF CYLINDRICAL GAS BODY
NASA-CR-58208 N64-26871 18-07

CONFERENCE ON MECHANICS OF GASES, LIQUIDS, AND SOLIDS
FTD-TT-63-471/1&2 N64-27086 19-23

RADIOMETER-PYROMETER FOR MEASUREMENT OF ABSORPTION, EMISSION, AND TEMPERATURE OF GASEOUS COMBUSTION PRODUCTS
NASA-TN-D-2405 N64-27092 19-15

PHYSICAL MECHANISMS OF GASES - ELECTRICAL BREAKDOWN UNDER INTENSE OPTICAL ILLUMINATION FROM LASER
C-920088-2 N64-27562 19-24

ELECTROCHEMISTRY OF FUEL CELL ELECTRODES - HYDROGEN EVOLUTION AT SOLID INDIUM ELECTRODE
TH-11 N64-27623 19-07

LOW DENSITY GAS FLOW AT HIGH SPEEDS AND DEVELOPMENT OF INTENSE MOLECULAR BEAMS OF NONCONDENSABLE GASES
AST-3503-104-64U N64-27785 19-11

FLOW OF LOW-DENSITY AIR OVER HEATED FLAT PLATE IN SUBSONIC WIND TUNNEL
UTIAS-92 N64-27965 20-11

ANALYSIS OF CHEMICAL BOUNDARY LAYER BEHIND MOVING SHOCK WAVE IN DIATOMIC GASES N64-28102 20-11

TURBULENCE IN INTERSTELLAR GAS N64-28387 20-23

OPERATION OF COWPER HEATER WITH THIN WALLED HEAT CONDUCTING ELEMENTS AT ANY SPECIFIED GAS FLOW RATE
N64-28491 20-13

MOLECULAR GAS OSCILLATOR STRENGTHS INVESTIGATED BY ELECTRON IMPACT METHOD
AFCRL-64-669 N64-29011 20-07

ANALOG COMPUTER STUDY OF ENERGY EXCHANGE BETWEEN GASES AND SOLIDS
AFOSR-64-1001 N64-29249 21-23

MIXING OF GAS JETS IN CHANNEL OF VARIABLE CROSS SECTION
TIL/T-5410 N64-29378 21-11

EXPLOSIVE GAS GUN FOR VELOCITY SIMULATION OF MACROSCOPIC SPACE PARTICLES
NASA-CR-58677 N64-29406 21-01

SPIRAL MOTION OF ELECTRICALLY CONDUCTIVE GAS BETWEEN COAXIAL PERMEABLE CYLINDERS IN PRESENCE OF MAGNETIC FIELD
NASA-TT-F-240 N64-29498 21-24

LIGHT GAS LAUNCHER WITH TWO-STAGE GUN USING TWO PISTONS IN PUMPTUBE
NOLTR-64-96 N64-29979 21-10

INTERACTION BETWEEN GASES & SOLIDS AT ELECTRODE SURFACES
GA-4719 N64-30550 22-07

HIGH POWER GASEOUS ELECTRONICS - THIN METALLIC FILMS TO CONTROL GAS CLEAN-UP
REPT.-6 N64-30574 22-09

ANISOTROPIC LIGHT SCATTERING BY INNER FIELD FLUCTUATIONS IN DENSE MONATOMIC GAS
AD-602919 N64-30666 22-23

BODY FLAPS, SPOILERS, & COLD GAS REACTION JETS FOR CONTROL IN HYPERSONIC FLIGHT
OR-3719 N64-30761 22-02

LOCAL AND NONLOCAL THERMODYNAMIC EQUILIBRIUM OF GAS FOR COLLISIONALLY AND RADIATIVELY CONTROLLED TRANSITION PROCESSES
R64SD41 N64-32372 23-11

THERMOMOLECULAR PRESSURE RISE IN GAS APPLIED TO ENERGY CONVERSION
ASD-TDR-63-776, VOL. II N64-32567 23-11

PERFORMANCE LIMITATIONS OF HIGH VELOCITY LIGHT GAS GUNS INCLUDING RATIO OF ACCELERATING FORCES TO PROJECTILE STRENGTH
CTN64-03 N64-32682 23-10

INFLUENCE OF RESIDUAL GAS ATMOSPHERE IN SPACE CHAMBERS ON NEUTRAL EFFLUX AND CRITICAL TEMPERATURE OF TUNGSTEN IONIZERS
AIAA PAPER 64-693 N64-32724 24-27

ELECTRON IMPACT IONIZATION AND ATTACHMENT IN POLYATOMIC GASES, AND CHEMICAL DEGRADATION OF MATERIALS FROM CORONA DISCHARGE
ML-TDR-64-57 N64-32751 24-07

IONIZATION AND ATTACHMENT COEFFICIENTS IN GASES
N64-32753 24-07

ABSORPTION & PHOTOIONIZATION CROSS SECTIONS OF ATMOSPHERIC GASES
NASA-CR-59021 N64-32895 24-28

MASS SPECTROSCOPY AND GAS ANALYZER FOR OXYGEN AND OTHER IMPURITIES IN ARGON AND HELIUM
NASA-CR-59004 N64-33035 24-07

COLLISIONS IN GASES, MAGNETIC SUSCEPTIBILITY OF BERYLLIUM, REACTIONS OF ALLYLIC ALCOHOLS, ACTIVITY COEFFICIENTS, BIOLOGICAL EFFECTS OF RADIATION, AND ECOLOGY OF DRAINAGE AREA
NASA-CR-58839 N64-33048 24-07

GAS MOLECULE INTERACTIONS WITH CRYSTAL SURFACES BY MEAN INTERACTION PARAMETERS AND MOLECULAR DISTRIBUTION
NASA-CR-58957 N64-33282 24-11

LAUNCHING OF AERODYNAMICALLY STABLE CONES BY LIGHT GAS GUN
CARDE-TN-1604/64 N64-33488 24-10

SPINOR SOLUTION OF SOUND WAVE IN ELECTRICALLY NEUTRAL GAS
NASA-TM-X-55085 N64-33561 24-23

ELECTROCATALYSIS - HYDROGEN EVOLUTION AT DILUTE PLATINUM & PALLADIUM AMALGAM FUEL CELL ELECTRODES
TM-7 N64-33757 24-06

GAS BEARING
UNCONVENTIONAL APPROACHES TO PROVIDING DYNAMIC SUPPORT FOR GAS BEARING MOLECULAR PUMP SEAL
ASD-TDR-63-709 N64-13876 05-10

FLUID POWER CONTROL DEVICES - ACCELEROMETER, PNEUMATIC SERVOSYSTEMS, COMPRESSIBLE DAMPERS, AND GAS BEARINGS AND VALVES
RTD-TDR-63-4252 N64-20385 13-15

GAS BEARING WITH AND WITHOUT SLIP FLOW
N64-27193 19-11

OPERATIONAL CHARACTERISTICS OF ROTOR SUPPORTED ON SELF-ACTING GAS JOURNAL BEARING
MTI-63TR50 N64-29915 21-17

MOTION AND STABILITY OF SPHERICAL GYROSCOPE SUPPORTED BY GAS BEARING N64-30365 22-15

GAS SPIN BEARINGS APPLIED TO MINIATURE FLOATED RATE INTEGRATING GYROSCOPES N64-31484 23-17

PNNL METHOD USED IN OIL FIELDS TO DISTINGUISH CROSS SECTIONS OF GAS AND WATER BEARING BEDS BASED ON LIFETIME OF THERMAL NEUTRONS
N64-31789 23-12

NITROGEN GAS LUBRICATED JOURNAL AND THRUST BEARINGS FOR APPLICATION IN HIGH TEMPERATURES AND LOW FLOW RATES
MTI-64TR35 N64-32122 23-17

CONSTRUCTION AND TESTING OF GAS-BEARING GYROSCOPES
E-1612 N64-32473 23-15

GAS CELL
METAL SEALED GAS CELL FOR DETERMINING INFRARED SPECTRA OF REACTIVE GASES
TR-3 N64-33949 24-10

GAS CHROMATOGRAPHY
XENON AND KRYPTON AS CARRIER GASES FOR HIGHLY SENSITIVE DETECTION SYSTEM FOR GAS CHROMATOGRAPHY
N64-12945 04-07

HIGH VACUUM GAS INLET FOR INTRODUCING MICROMOLAR GAS SAMPLES INTO GAS CHROMATOGRAPH
USNRDL-TR-692 N64-15075 07-17

GAS CHROMATOGRAPHIC ANALYSIS OF LOW MOLECULAR WEIGHT TRACE HYDROCARBONS PRESENT IN OXYGEN AND NITROGEN
WRE-TN-CPD-73 N64-15565 07-07

APPLICATION OF PYROLYTIC GAS CHROMATOGRAPHY TO ANALYSIS OF THERMOSETTING ACRYLIC RESINS
CCL-157 N64-17461 09-07

DETERMINATION OF BLOOD NITROGEN CONTENT BY GAS CHROMATOGRAPHY N64-17937 10-16

GAS-LIQUID CHROMATOGRAPHIC INVESTIGATION OF THERMODYNAMICS OF NONELECTROLYTE SOLUTIONS
NASA-CR-53391 N64-18175 10-07

DYNAMIC AND STATIC VAPOR PRESSURE CONTROL BY GAS CHROMATOGRAPH STUDIES OF OPEN CYCLE FUEL CELL
NASA-CR-53733 N64-19575 12-06

COMPARISON OF GAS CHROMATOGRAPH TESTS & COMPUTER SOLUTIONS OF MATHEMATICAL MODEL FOR STATIC VAPOR PRESSURE CONTROL SYSTEM
NASA-CR-53816 N64-19612 12-06

IONIZATION CROSS SECTION DETECTORS FOR GAS CHROMATOGRAPHY
NASA-CR-53635 N64-19624 12-15

NITROGEN SOLUBILITY IN WATER AND EXTRACTED HUMAN FAT - GAS CHROMATOGRAPHIC DETERMINATION
SAM-TDR-64-1 N64-19822 12-16

GAS CHROMATOGRAPH FOR DETERMINATION OF GASES IN SUPERHEATED STEAM FROM CALCINATION OF RADIOACTIVE WASTE IN SULFUR
DP-880 N64-20678 13-07

GAS CHROMATOGRAPHIC DETECTION OF ORGANIC COMPOUNDS ON MOON AND MARS
NASA-CR-50183 N64-22753 16-15

HYDROCARBON ANALYSIS FOR DETECTION OF LIFE IN SPACE - GAS CHROMATOGRAPHY OF ALKANES
NASA-CR-50703 N64-22761 16-16

GAS CHROMATOGRAPHY FOR DETECTION OF LIFE ON MARS
NASA-TM-X-50806 N64-22773 16-16

CHEMICAL STABILITY, LIQUID PROPELLANT, VISIBLE SPECTROSCOPY, GAS CHROMATOGRAPHY, X-RAY ANALYSIS, AND RADIO FREQUENCY SPECTROSCOPY - MINUTES OF COMMITTEE REPORTS
CPIA-PUBL-30A N64-31288 22-07

GAS CHROMATOGRAPHIC ANALYSIS OF HIGH PURITY PHOSGENE-ETHYLENE MIXTURES - PHOTOLYSIS
SSD-TDR-64-154 N64-31981 23-07

SOLID GAS AND LIQUID GAS CHROMATOGRAPHY IN COMBUSTION PRODUCT ANALYSIS
AD-602228 N64-33005 24-26

IONIZATION DETECTORS IN GAS CHROMATOGRAPHY SYSTEMS ANALYZING CHEMICAL COMPONENTS OF LUNAR SURFACE
NASA-CR-59301 N64-33683 24-11

ANALYSIS OF TETRAFLUOROHYDRAZINE BY GAS CHROMATOGRAPHY AND INFRARED SPECTROPHOTOMETRY
REPT.-144-QR N64-33971 24-26

GAS COMPOSITION
GAS COMPOSITION OF GAS POCKETS & FISH SWIM BLADDER
N64-17948 10-16

COMPOSITION OF GAS FORMED DURING EXPLOSIVE COMBUSTION
FTD-TT-64-328/1 N64-26119 18-07

GAS COOLED REACTOR
REACTOR TECHNOLOGY - FUEL ELEMENTS, RADIOISOTOPE AND RADIATION APPLICATIONS, CORROSION RESISTANCE, AND GAS COOLING
BMI-1681/DEL./ N64-31375 23-25

MOBILE, LOW POWER, NUCLEAR POWERPLANT WITH GAS COOLED REACTOR SYSTEM
IDO-28632 N64-31594 23-17

GAS COOLED REACTOR /GCR/
ARMY GAS-COOLED REACTOR EXPERIMENT
IDO-28598 N64-10525 01-23

SHIELDING DESIGN FOR CLOSED-CYCLE, GAS-COOLED NUCLEAR POWERPLANT
IDO-28609 N64-10857 02-23

BIBLIOGRAPHY OF BOILING LIGHT WATER, GAS COOLED, LIQUID METAL, AND PRESSURIZED LIGHT WATER REACTORS
HW-66666, REV. 2 N64-11947 03-10

DESIGN REQUIREMENTS OF GAS-COOLED NUCLEAR REACTOR PRIMARY LOOP
NYO-9788 N64-14217 06-17

PRESSURE VESSEL REPAIR IN ARMY GAS-COOLED REACTOR SYSTEM
AGN-TM-405 N64-15199 07-17

MOLTEN SALT REACTORS, AQUEOUS REACTORS, AND GAS COOLED REACTORS - REACTOR CHEMISTRY
ORNL-3591 N64-19910 12-07

INCREASING HEAT OUTPUT OF GAS COOLED REACTORS
FTD-TT-63-114/1&2&3&4 N64-22138 15-10

GAS COOLED REACTOR DESIGN AND CONSTRUCTION FOR MOBILE LOW POWER NUCLEAR POWERPLANT
IDO-28626 N64-25191 17-23

REACTOR TECHNOLOGY - FUEL ELEMENTS, CORROSION, CREEP, ZIRCONIUM ALLOYS, AND GAS COOLED REACTOR
BMI-1674-/DEL/ N64-28017 20-18

PROTOTYPE FUEL ELEMENTS FOR GAS COOLED REACTOR SYSTEMS PROGRAM
IDO-28616 N64-28142 20-06

CHARACTERISTICS OF GRAPHITE-MODERATED GAS-COOLED REACTOR USING NATURAL URANIUM FUEL
N64-29711 21-23

MECHANICAL DESIGN OF GAS-COOLED HIGH TEMPERATURE NUCLEAR CERAMIC REACTORS, FOR USE IN DIRECT AIR CYCLE NUCLEAR TURBOJET AIRCRAFT
NASA-CR-52955 N64-29790 21-23

ROTATING MACHINERY FOR GAS COOLED REACTORS - CONFERENCE
TID-7690 N64-30065 21-17

NUCLEAR RESEARCH, INCLUDING WORK ON HIGH TEMPERATURE MATERIALS, ZIRCONIUM METALLURGY, HIGH FLUX ISOTOPE REACTOR, GAS COOLED REACTOR, AND THORIUM UTILIZATION PROGRAM
ORNL-3670 N64-32700 24-23

GAS COOLING SYSTEM
PHYSICAL AND NUCLEAR PROPERTIES OF GASEOUS, LIQUID, METAL, AND LIQUID METAL COOLANTS
FTD-TT-61-478 N64-11587 03-23

GAS DENSITY
DIRECT DENSITY MEASUREMENT OF GAS BY GAMMA RAY SCATTERING
AEDC-TDR-63-187 N64-12080 03-23

PHYSICAL CONDITIONS IN EXTRATERRESTRIAL SPACE AND EFFECT OF LOW GAS DENSITIES ON SPACECRAFT SURFACE MATERIALS
DFL-218 N64-15024 07-29

UPPER ATMOSPHERE GAS DENSITY MEASUREMENT SENSOR AND CALIBRATION METHODS
NASA-CR-55789 N64-16067 07-13

MCLEOD MANOMETER FOR DETERMINATION OF ABSOLUTE GAS DENSITIES IN VACUUM - PRESSURE MEASUREMENT
RSIC-153 N64-22725 15-13

NEUTRAL AND IONIZED GAS DENSITIES IN LUNAR ATMOSPHERE AS FUNCTION OF SOLAR CORPUSCULAR FLUX
N64-25737 17-29

DENSITY MEASUREMENTS OF GASEOUS MEDIUM BASED ON TIME OF FLIGHT OF PARTICLE TRAVERSING MEDIUM - COLLISION PROCESSES OF IONS WITH MOLECULES
N64-26970 19-13

GAS DENSITY MEASUREMENTS BY LITHIUM ION PATH LENGTH DETERMINATIONS N64-26972 19-13

VISCOSITY AND VARIATION OF MODERATELY DENSE GASES FROM MODEL OF TRIPLE COLLISION AND CHAPMAN-ENSKOG THEORY - SQUID PROJECT
BRN-13-P N64-32979 24-11

GAS DISCHARGE
SA ELECTRIC DISCHARGE
SA GLOW DISCHARGE
ENERGY TRANSFER EFFICIENCY OF RESONANT DISCHARGE CIRCUIT, AND ASSESSMENT OF KINETIC ENERGY OF GAS
N64-10144 01-27

DEVELOPMENT OF SELF-STABILIZED GAS DISCHARGE COLD ELECTRONIC CATHODE TUBE
JPRS-18179 N64-10749 02-09

OSCILLATIONS IN ARGON DISCHARGE
HDL-TR-1182 N64-11771 03-23

GAS DISCHARGE CONFINEMENT MECHANISMS FOR IMPROVED PERFORMANCE OF GAS DISCHARGE DUPLEXERS
RADC-TDR-63-500 N64-13788 05-24

ZEEMAN EFFECT IN EMISSION INTENSITY OF GAS DISCHARGE LASER
USAELRDL-TR-2322A N64-15708 07-25

PULSED DISCHARGE IN ARGON AT LOW PRESSURE
FTD-TT-62-1282/1&2 N64-16345 08-24

CONFINEMENT OF GAS DISCHARGE WITH MAGNETICALLY CONTROLLED DUPLEXER
RADC-TDR-64-73 N64-19064 11-09

MERCURY, POTASSIUM, ARGON, NEON, AND HELIUM GAS DISCHARGE STUDY AT VERY LOW PRESSURES
FTD-TT-62-1238/1&2 N64-21918 15-11

ASYMPTOTIC THEORY OF POSITIVE COLUMN OF QUIESCENT, LONGITUDINALLY UNIFORM GAS DISCHARGE
MATT-202 N64-22198 15-11

TOXIC GASEOUS SUBSTANCES DISCHARGED BY CHLORELLA
N64-23754 16-16

INTERACTION BETWEEN MICROWAVES AND PLASMAS IN GAS DISCHARGES AND SEMICONDUCTORS
RADC-TDR-64-93 N64-24668 17-09

VARIATION OF ELECTRON DENSITY ALONG POSITIVE COLUMN OF LOW PRESSURE MERCURY DISCHARGE
N64-24674 17-24

ARC ATTACHMENT REGIONS ON CATHODE IN HIGH CURRENT GAS DISCHARGE
EOS-3240-FINAL N64-26917 18-24

COMPARISON OF PROBE CHARACTERISTICS OF ELECTRON AND ION CURRENTS IN ONE-, TWO-, THREE-, AND FOUR-ELECTRODE PLASMA PROBES N64-26996 19-15

PLASMA WAVE GENERATION IN SEMICONDUCTOR AND ELECTROMAGNETIC PROPAGATION IN WAVEGUIDE BY GAS DISCHARGE PLASMA
FTD-TT-64-292/1&2&4 N64-27002 19-24

ELECTROMAGNETIC WAVE PROPAGATION IN CIRCULAR WAVE GUIDE FILLED BY GAS DISCHARGE PLASMA
N64-27004 19-24

GAS DISCHARGES IN SUPER HIGH FREQUENCY FIELDS

N64-29054 21-11

DETERMINATION OF ELECTRON DENSITY AND ELECTRON COLLISION FREQUENCY IN PULSED GAS DISCHARGE PLASMA
N64-30357 22-24

GAS DISCHARGE DISPLAY PANEL WITH INTERNAL STORAGE CAPABILITY
GR-1457 N64-30634 22-15

POWER BALANCE MEASUREMENTS FOR HELIUM DISCHARGES IN C STELLARATOR
MATT-268 N64-31472 23-24

GAS DISCHARGE COUNTER FOR CHARGED COSMIC RADIATION PARTICLES
FTD-MT-64-45 N64-32240 23-15

DETERMINATION OF ELECTRON COLLISION FREQUENCY AND DECAY RATE OF CESIUM GAS DISCHARGE PLASMA BY MICROWAVE METHOD
NASA-TT-F-8980 N64-33387 24-24

GAS DISSOCIATION
METHODS FOR REMOVING FREE ELECTRONS FROM IONIZED & DISSOCIATED ATMOSPHERE
NRA-113-400 N64-13658 04-05

EFFECTS OF NON-GRAY RADIATION ON WAVE PROPAGATION IN SIMPLE DISSOCIATING GAS
SSD-TDR-63-355 N64-16445 08-24

INCREASED EFFECTIVENESS OF GASES AS NATURAL CONVECTIVE HEAT TRANSFER MEDIA BY MOLECULAR DISSOCIATION - COOLANT RESEARCH
TP-83 N64-17434 09-13

GAS DISSOCIATION, ROCKET NOZZLE FLUID DYNAMICS, & MOLECULAR BEAM CHEMICAL KINETICS
SR-4-4 N64-20564 13-01

ABSORPTION SPECTRUM AND DISSOCIATION ENERGY OF GASEOUS CHLORINE FLUORIDE IN GROUND STATE
RSIC-183 N64-25220 17-07

STRUCTURE OF RADIATION-RESISTED SHOCK IN SIMPLE DISSOCIATING GAS
SSD-TDR-64-47 N64-25246 17-11

DISSOCIATED GAS STUDIES, MOLECULAR BEAM CHEMICAL KINETIC STUDIES, AND ROCKET NOZZLE FLUID DYNAMICS
SR-4-53 N64-25724 17-11

EFFECT OF AMBIENT DISSOCIATION OF FROZEN HYPERSONIC STAGNATION FLOW
AEDC-TDR-64-142 N64-25795 17-11

RADIATIVE HEAT TRANSFER ON ATMOSPHERIC ENTRY TO MARS OR VENUS - DISSOCIATION RATE OF CARBON MONOXIDE AT HIGH TEMPERATURES
NASA-CR-58574 N64-29185 21-24

ORDINARY DIFFERENTIAL EQUATIONS FOR AXISYMMETRIC FLOWS OVER CONES OF LIGHTHILL DISSOCIATING GAS UNDER THERMODYNAMIC EQUILIBRIUM
DI-82-0350 N64-30044 21-11

PERTURBATION SCHEME BASED ON LIGHTHILL-FREEMAN NONEQUILIBRIUM DISSOCIATION-RECOMBINATION GAS MODEL FOR STABILITY OF FLOW SYSTEM ABOUT EQUILIBRIUM POINT
RE-167 N64-31263 22-11

HIGH TEMPERATURE GAS FLOW RESEARCH - DISSOCIATED GASES, MOLECULAR BEAM CHEMICAL KINETICS, AND ROCKET NOZZLE FLUID DYNAMICS
SR-4-2 N64-32281 23-26

GAS DYNAMICS
SA MAGNETOGASDYNAMICS
SA RAREFIED GAS DYNAMICS
CF AERODYNAMICS
CF FLUID MECHANICS
TWO-FLUID MODEL FOR THE TRANSITION REGIME IN HYPERSONIC RAREFIED GAS DYNAMICS
AD-424157 N64-12272 03-11

DYNAMICS OF GASES & PLASMAS, AERODYNAMICS OF SUBSONIC VEHICLES, FATIGUE IN METALS AND METAL STRUCTURES, BLAST WAVE PHENOMENA
AD-423576 N64-12972 04-23

FUNDAMENTAL GAS AND PLASMA DYNAMICS - SQUID PROJECT
N64-13479 05-24

CHEMICAL KINETICS AND GAS DYNAMICS OF ATOM AND FREE-RADICAL REACTIONS - SQUID PROJECT
N64-13488 05-24

APPROXIMATION ON METHOD FOR SATISFYING BOUNDARY LAYER CONDITIONS BY SPECIFIC RADIANT INTENSITY IN RADIATION GAS DYNAMICS
AD-425986 N64-13980 05-23

TWO FORMS OF DYNAMIC EQUATIONS FOR COMPONENTS OF PARTIALLY IONIZED MONATOMIC GASES
AD-428797 N64-14473 06-24

GAS DYNAMICS - THRUST INCREASE BY JET MIXING
TIL/T-5349 N64-15556 07-27

FLOW PHENOMENA INVOLVED IN GASEOUS THRUST DIRECTION CONTROL DEVICES
N64-15632 07-11

SHOCK ATTENUATION EFFECT ON REFLECTED SHOCK WAVES - GAS DYNAMIC PHENOMENA
CP-2 N64-15986 07-11

MOTION OF CONDUCTIVE VISCOUS GAS IN MAGNETIC & ELECTRIC FIELDS
FTD-TT-63-202/1&2 N64-16360 08-23

MODEL FOR TRANSITION REGIME IN HYPERSONIC RAREFIED GAS DYNAMICS
R63SD85 N64-17435 09-11

AERODYNAMICS AND GASDYNAMICS OF FLOWS AT SUPERSONIC AND HYPERSONIC SPEEDS
AID-B-64-3 N64-17519 09-11

COLLISIONLESS EXPANSION OF GASES OF FINITE AMOUNT INTO VACUUM - BOLTZMANN EQUATIONS
N64-17571 09-11

COMPUTING ROCKET EXHAUST PLUMES WITH LAMINAR OR TURBULENT MIXING - GAS DYNAMICS
GD/A-63-1381 N64-18009 10-26

DISSOCIATION, IONIZATION, AND INTERMOLECULAR FORCES EFFECT ON SHOCK WAVES IN IMPERFECT AIR - GAS DYNAMICS
AEDC-TDR-64-43 N64-18039 10-23

AERODYNAMIC OPERATION OF HYPERSONIC VON KARMAN GAS DYNAMIC TUNNEL FACILITY
AD-435787 N64-18632 11-16

GAS AND PLASMA DYNAMICS RELATED TO NUCLEAR FUSION AND MAGNETOHYDRODYNAMIC POWER GENERATION - SQUID PROJECT
N64-18855 11-24

CHEMICAL KINETICS AND GAS DYNAMICS OF ATOM AND FREE RADICAL REACTIONS
N64-18862 11-26

STATIC PRESSURES OF SODIUM VAPOR EXPANSION WITH INERT-GAS-INJECTION PRESSURE-MEASURING TECHNIQUE
NASA-TN-D-2276 N64-18961 11-02

HEAT CAPACITY CALCULATIONS FOR HIGH TEMPERATURES AND APPLICATIONS IN GAS DYNAMICS
R-83 N64-19977 12-13

GAS DYNAMIC PROPERTIES FOR INCIDENT AND REFLECTED SHOCK WAVES IN IONIZED NITROGEN
AEDC-TDR-64-104 N64-22298 15-24

EFFECTS OF GAS STRATIFICATION ON CHOKED NOZZLE FLOW
AIAA PAPER-64-266 N64-23612 16-11

HIGH SPEED LOW DENSITY FLOWS OF NEUTRAL AND PARTIALLY IONIZED GASES - GASDYNAMICS AND PLASMADYNAMICS
AFOSR-64-0565 N64-24078 16-24

METHODS TO SOLVE EQUATIONS FOR FLUCTUATION PHENOMENA IN LOW DENSITY GAS
AD-600763 N64-26027 18-11

UNSTEADY SHOCK WAVE PROPAGATION IN RELAXING GAS
N64-26128 18-11

FUNDAMENTAL EQUATIONS OF RADIATION GAS DYNAMICS
N64-26153 18-11

EVAPORATION, COMBUSTION, AND GAS DYNAMICS IN DISPERSION SYSTEMS
FTD-TT-63-944/1 N64-26213 18-07

THEORETICAL CALCULATIONS OF CONTINUUM OPACITIES AND RADIANT EMISSION FROM ISOTHERMAL AND NONISOTHERMAL GASES
TR-44 N64-26286 18-24

RADIANT ENERGY EMISSION FROM ISOTHERMAL AND NONISOTHERMAL GASES N64-26288 18-11

GAS DYNAMICAL EFFECTS OF RADIATION & TRANSITION TO ESTABLISHMENT OF IONIZED GAS REGION - RADIATIVE IONIZATION FRONTS IN HYDROGEN N64-26338 18-11

ATOMIC COLLISION PROCESSES OCCURING IN ATMOSPHERIC GASES
RM-64-928-113-M5 N64-26849 18-11

MOTION OF GAS UNDER INFLUENCE OF POINT-IMPACT SHOCK ON ITS SURFACE
GA-TR-5081 N64-27145 19-11

SOLUTION FOR MOTION OF PISTON - GAS DYNAMICS
N64-27985 20-11

KINETIC THEORY OF GASEOUS THERMODYNAMICS
N64-28179 20-13

DYNAMICS OF GAS-PARTICLE FLOW SYSTEM CONTAINING SMALL SOLID PARTICLES N64-28183 20-11

HYDRAULICS AND GAS DYNAMICS
NASA-TT-F-146 N64-28504 20-11

PLANE GAS DYNAMIC AND TRANSVERSE MAGNETOGASDYNAMIC SHOCK WAVE IN FULLY IONIZED HYDROGEN
NASA-CR-58338 N64-28940 20-24

STATE OF GAS BEHIND REFLECTED SHOCK IN REGION AROUND END OF SHOCK TUBE N64-30672 22-11

HIGH TEMPERATURE MAGNETOGASDYNAMICS, GAS DYNAMICS OF REAL AND CHEMICALLY REACTING GASES, AND DYNAMICS OF RAREFIED GASES
AD-601730 N64-31100 22-24

DYNAMICS OF IONIZING SHOCK WAVES - TRANSVERSE SHOCKS
REPT.-7 N64-31329 22-24

GASDYNAMICS OF NITRIC OXIDE TRAIL IN UPPER ATMOSPHERE - FIREFLY PROJECT N64-31401 23-12

GAS DYNAMICS OF COMBUSTION
NASA-TT-F-231 N64-32841 24-26

GAS EXCHANGE
SA OXYGEN PRODUCTION
PHOTOSYNTHETIC GAS EXCHANGERS FOR CLOSED ECOLOGICAL SYSTEM N64-13715 05-16

ECOLOGIC RELATIONSHIPS BETWEEN BACTERIA AND ALGAE IN PHOTOSYNTHETIC GAS EXCHANGERS
NASA-CR-55423 N64-16325 08-16

GAS EXCHANGE WITH AIR DURING BREATH-HOLDING
N64-17934 10-16

GAS EXCHANGE OF CARBON DIOXIDE AND OXYGEN IN ALVEOLAR REGION DURING DIVING & ADVERSE BREATHING MODES N64-17935 10-16

VENTILATION-PERFUSION RELATIONSHIP IN GAS EXCHANGE OF LUNGS N64-17939 10-16

GAS EXCHANGE IN LUNGS OF MAN N64-17941 10-16

RESPIRATORY PHYSIOLOGY AND GAS EXCHANGE IN WATER MEDIUM N64-17956 10-16

PULMONARY GAS EXCHANGE AND LUNG FUNCTION IN MAN DURING POSITIVE ACCELERATION IN SITTING POSITION
FPRC-1212 N64-22218 15-16

EFFECT OF DILUENT GAS ON SELF-INDUCED ISOTOPIC EXCHANGE BETWEEN TRITIUM AND WATER VAPOR
USNRDL-TR-738 N64-22923 16-07

GAS EXPLOSION
S EXPLOSIVE GAS

GAS FLOW
HEAT POWER ENGINEERING - GAS TURBINE, BOILING, AND GAS FLOW STUDIES
FTD-TT-62-1456/1&2&4 N64-11139 02-01

UNIVERSAL LAW FOR CONVECTIVE HEAT TRANSFER IN TURBULENT BOUNDARY LAYER OF COMPRESSED GAS
N64-11142 02-13

LANGLEY HOTSHOT TUNNEL AND REAL-GAS CORRECTION FACTORS FOR NITROGEN FLOW
NASA-TN-D-2023 N64-12103 03-10

THERMAL BOUNDARY LAYER IN COMPRESSIBLE GAS FLOW
RSIC-11 N64-12204 03-11

GAS FLOW PAST BLUNT BODIES & TRIANGULAR WING AND ITERATIVE SOLUTION OF LINEAR BOUNDARY PROBLEM
FTD-TT-62-1582/1&2 N64-12482 04-01

HYPERSONIC FLOW OF IDEAL OR REAL GAS PAST BLUNT BODIES OF GIVEN SHAPE N64-12484 04-02

SUPERSONIC FLOW OF IDEAL GAS PAST PLANE TRIANGULAR WING WITH POSITIVE ANGLE OF ATTACK
N64-12485 04-03

ELASTIC BAND STABILITY IN GAS FLOW AND WING FLUTTER STUDY
FTD-TT-63-754/1&2 N64-12490 04-01

STABILITY OF ELASTIC BAND IN GAS FLOW
N64-12491 04-11

CONVENTIONAL WIND TUNNEL USED AS MULTIGAS FACILITY
NASA-CR-53010 N64-13287 04-10

TURBULENT GAS FLOW IN PISTON ENGINES - HOT-WIRE ANEMOMETER MEASUREMENTS N64-13416 05-26

EFFECTS OF IONIZATION ON FLOW AND HEAT TRANSFER OF DENSE GASES
ASD-TDR-63-842 N64-14315 06-24

HEAT EXCHANGE OF HEATED BODIES IN GAS FLOW DURING NONEQUILIBRIUM EXOTHERMAL CHEMICAL REACTIONS
FTD-MT-63-95/1&2&3&4 N64-14379 06-13

UNIPOLAR IONIZED GAS FLOW THROUGH SLENDER CYLINDRICAL CHANNELS - ELECTROGASDYNAMIC APPLICATIONS
ARL-63-205 N64-14658 06-24

CATALYTIC RECOMBINATION OF ATOMS ON SURFACE OF BODY IN GAS FLOW
SSD-TDR-63-345 N64-14958 06-24

UNIVERSAL EJECTION PROPERTIES OF TURBULENT JETS OF GAS
RSIC-108 N64-15063 07-11

DIMENSIONS OF INSTRUMENTS FOR MEASURING TEMPERATURE, PRESSURE, QUANTITY, AND RATE OF FLOW OF LIQUIDS, GASES, AND VAPORS
FTD-TT-63-16 N64-15575 07-15

HEAT TRANSFER AND FRICTION ON PERMEABLE WALL IN TURBULENT BOUNDARY LAYERS OF GAS FLOW
FTD-TT-62-1315/1&2&4 N64-16395 08-11

GAS FLOW NEAR STAGNATION POINT OF BLUNT BODY WITH FINITE RATE OF EXCITATION OF VIBRATIONAL DEGREES OF FREEDOM
FTD-TT-62-1313/1&2&4 N64-16477 08-02

RAREFIED GAS AND GAS FLOW PROBLEMS
FTD-TT-63-509/1&2&4 N64-16598 08-23

GAS FLOW IN SHOCK WAVE RESULTING FROM ELECTRIC

DISCHARGE N64-16601 08-24

HIGH SPEED GAS FLOWS
FTD-TT-63-91/1&2 N64-17183 09-01

AERODYNAMICS AND GASDYNAMICS OF FLOWS AT SUPERSONIC AND HYPERSONIC SPEEDS
AID-B-64-3 N64-17519 09-11

IGNITION AND IGNITION PROPAGATION OF SOLID PROPELLANTS IN FLOW ENVIRONMENT
AIAA PAPER-64-157 N64-17534 09-26

GAS TRANSPORT ACROSS SKIN IN MAN AND EFFECT OF AMBIENT TEMPERATURE ON TRANSFER RATE
N64-17949 10-16

OUTGASSING OF STRUCTURAL MATERIALS AND SMALL TEST SAMPLES INSTALLED IN GLASS VACUUM SYSTEM
AEDC-TDR-64-53 N64-17959 10-19

VORTEX GAS ACCELERATOR
UCRL-7377 N64-18509 10-27

GAS MOVEMENT UNDER ACTION OF CONCENTRATED IMPACT ON ITS SURFACE
FTD-MT-63-80/1&2&3&4 N64-18525 11-23

REAL GAS FLOW FIELD AROUND BLUNT BODIES - DATA TABLES
RF-TR-63-18 N64-18591 11-02

ENERGY, ENTROPY, AND GAS EXPENDITURE IN NONUNIFORM SUPERSONIC GAS FLOW
FTD-MT-63-51/1&2 N64-18755 11-11

TURBULENT BOUNDARY LAYER IN GAS FLOW USING VON KARMAN EQUATION
FTD-TT-63-284/1&2&4 N64-19212 11-11

OBLIQUE SHOCK WAVE PARAMETER CORRELATION FOR SOME SPECIFIC HEAT RATIOS WITH APPLICATION TO REAL GAS FLOWS
NASA-TR-R-171 N64-19235 11-11

SUPERSONIC GAS FLOW PAST WEDGE N64-20364 13-02

THERMOACOUSTICAL INSTABILITY OF HETEROGENEOUS GAS FLOW AND NONSTEADY FLUTTER OF PLATES AND SLANTED SHELLS IN GAS FLOWS
FTD-TT-63-204/1&2&4 N64-20367 13-01

THERMOACOUSTICAL INSTABILITY OF HETEROGENEOUS GAS FLOW N64-20368 13-11

FLOW RELAXATION IN GASES & DEVIATION IN THERMODYNAMIC EQUILIBRIUM IN FLOW AROUND CONES
FTD-TT-63-655/1&2 N64-21934 15-11

HYDROGEN, HELIUM, AMMONIA, AND ARGON GAS FLOW THROUGH ELECTRIC ARC HOT GAS CONTAINMENT LIMITS
ARL-64-49 N64-22306 15-24

STAGNATION POINT HEAT TRANSFER IN HIGH ENTHALPY GAS FLOWS
FDL-TDR-64-41, PT. 1 N64-22571 15-13

LINEAR EQUATIONS FOR CALCULATION OF AXISYMMETRICAL SUPERSONIC GAS FLOWS
FTD-TT-62-1802/1&2&4 N64-22636 15-11

GAS FLOW WITH FRICTION AND HEAT EXCHANGE IN SUPERSONIC CONICAL COOLED NOZZLE
FTD-TT-63-1040/1&2 N64-22663 15-11

STAGNATION POINT EQUILIBRIUM RADIATIVE HEAT TRANSFER IN HIGH ENTHALPY GAS FLOWS
FDL-TDR-64-41 PT. II N64-22691 15-13

REAL GAS FLOW PARAMETERS USING DATA ON IDEAL GAS FLOW AROUND INFINITE PLATE N64-23073 16-11

GAS FLOW CALCULATIONS FOR FLUIDIZED-BED COATING OF NUCLEAR FUEL PARTICLES
ORNL-3639 N64-23262 16-23

ELECTRIC ARC INSTALLATION FOR OBTAINING HIGH TEMPERATURE GAS FLOW
FTD-TT-62-1753/1&2 N64-23400 16-11

BASE PRESSURE AND TEMPERATURE MEASUREMENTS FOR SOLIDS OF REVOLUTION IN SUPERSONIC GAS FLOW
FTD-TT-63-1146/1&2 N64-23441 16-11

DYNAMIC CHARACTERISTICS OF TEMPERATURE SENSORS FOR RETARDED AIR FLOW N64-23590 16-11

EQUATION RELATING THREE VELOCITIES OF GAS FLOW IN SHOCK TUNNEL N64-23683 16-11

HIGH SPEED LOW DENSITY FLOWS OF NEUTRAL AND PARTIALLY IONIZED GASES - GASDYNAMICS AND PLASMADYNAMICS
AFOSR-64-0565 N64-24078 16-24

MONTE CARLO SOLUTION FOR HIGHLY RAREFIED IONIZED GAS FLOWING THROUGH CHANNEL WITH TRANSVERSE MAGNETIC FIELD
NASA-TM-X-52033 N64-24105 16-24

GAS FLOW DIFFERENTIAL THERMAL ANALYZER FOR STUDY OF THERMAL DEGRADATION OF HIGH POLYMERS
REPT.-379 N64-24957 17-13

RADIATIVE AND FORCED CONVECTIVE HEAT TRANSFER TO FLOWING GAS WITH CARBON PARTICLES
NASA-RP-227 N64-24988 17-13

MODELS OF GAS FLOWS WITH CHEMICAL AND RADIATIVE EFFECT N64-25105 17-11

LINEARIZED THEORY OF TWO-DIMENSIONAL RADIATING GAS FLOW BY MOMENT METHOD
SUDAER-188 N64-25728 17-11

PRESSURE PULSE AND PULSE FREQUENCY RECORDER FOR PULSES IN LIQUID AND GAS FLOWS
FTD-TT-64-181/1&2&4 N64-25966 18-11

ELECTRON-ION RECOMBINATION IN ARGON FLOWING THROUGH SUPERSONIC NOZZLE N64-26130 18-24

HYPERSONIC FLOW FIELD CALCULATIONS - THREE DIMENSIONAL AND REAL GAS FLOWS N64-26134 18-02

GROUP CLASSIFICATION OF EQUATIONS DESCRIBING ONE-DIMENSIONAL GAS FLOWS
NASA-TT-F-8921 N64-26751 18-11

CONICAL BODIES OF LEAST RESISTANCE IN HYPERSONIC GAS FLOW
NASA-TT-F-8920 N64-26770 18-02

SIMILARITY RULES OF FLOW OF PERFECTLY CONDUCTING GAS WITH ALIGNED MAGNETIC FIELD
ARL-64-113 N64-27468 19-24

NONEQUILIBRIUM SCALING OF HIGH ENTHALPY GAS FLOWS
TR-64-02C N64-27569 19-11

DISTRIBUTION FUNCTIONS OF ARGON AND XENON FLOW THROUGH CIRCULAR ORIFICE
UVA-5-P N64-27722 19-11

LOW DENSITY GAS FLOW AT HIGH SPEEDS AND DEVELOPMENT OF INTENSE MOLECULAR BEAMS OF NONCONDENSABLE GASES
AST-3503-104-64U N64-27785 19-11

DIRECT MEASUREMENT OF BOUNDARY LAYER VELOCITY PROFILE OF GAS FLOW ALONG NONUNIFORMLY HEATED FLAT PLATE
FTD-TT-63-1053/1&2&4 N64-27837 19-15

NUMERICAL SOLUTION AND PROGRAMMING FOR PROBLEMS INVOLVING INTERSECTION OF SHOCKS AND SHOCK-BOUNDARY LAYER INTERACTIONS FOR REAL AND IDEAL GAS
NASA-CR-56414 N64-27905 20-11

AXISYMMETRIC OSCILLATIONS OF CYLINDRICAL SHELLS IN SUPERSONIC GAS FLOW N64-28173 20-02

DYNAMICS OF GAS-PARTICLE FLOW SYSTEM CONTAINING SMALL SOLID PARTICLES N64-28183 20-11

BREAKUP OF WATER JET IN TRANSVERSE FLOW OF NITROGEN GAS
NASA-TN-D-2424 N64-28326 20-11

COMPUTATION OF GAS FLOW BEHIND CONVERGING DETONATION FRONT OF CYLINDRICAL OR SPHERICAL GEOMETRY
EUR-1849.E N64-28418 20-11

SUPERSONIC GAS FLOW OVER THIN PLATE WITH DETACHED SHOCK WAVE N64-28471 20-11

BOUNDARY LAYER OF AXISYMMETRIC FIGURE ROTATING WITHIN AXIAL FLOW OF COMPRESSIBLE GAS N64-28472 20-11

OSCILLATIONS OF GAS WITHIN ENCLOSED DUCT N64-28473 20-11

NONLINEAR ACOUSTIC OSCILLATIONS OF GAS COLUMN WITHIN ENCLOSED DUCT N64-28474 20-11

AXIALLY SYMMETRIC OSCILLATIONS OF CYLINDRICAL SHELLS IN SUPERSONIC GAS FLOW N64-28482 20-33

DYNAMIC STABILITY OF SHORT CYLINDRICAL SHELLS & CURVILINEAR PANELS IN SUPERSONIC GAS FLOW
FTD-TT-63-1227/1&2 N64-29028 21-03

NUMERICAL SOLUTION FOR TWO- AND THREE-DIMENSIONAL FLOW OF NONEQUILIBRIUM GAS
AFOSR-64-1055 N64-30008 21-11

ORDINARY DIFFERENTIAL EQUATIONS FOR AXISYMMETRIC FLOWS OVER CONES OF LIGHTHILL DISSOCIATING GAS UNDER THERMODYNAMIC EQUILIBRIUM
DI-82-0350 N64-30044 21-11

HIGH TEMPERATURE GAS CIRCULATION IN MAGNETOPLASMADYNAMIC LOOPS N64-30430 22-10

MONATOMIC GAS FLOW IN MAGNETOPLASMADYNAMIC GENERATORS AT CONSTANT MACH NUMBERS - EFFECT OF ELECTRON TEMPERATURE ELEVATION ON HALL GENERATOR EFFICIENCY N64-30446 22-24

BEHAVIOR OF ROCKET NOZZLE MATERIALS EXPOSED TO HIGH HEAT FLUX AND HIGH VELOCITY GAS FLOW
QPR-1 N64-30960 22-19

FLUX PATTERNS FROM FREE MOLECULAR GAS FLOW THROUGH CONVERGING AND DIVERGING SLOTS
NASA-TN-D-1864 N64-30996 22-11

ORIFICE EFFECT ON PRESSURE MEASUREMENT IN RAREFIED GAS FLOW
AEDC-TDR-64-175 N64-31066 22-11

INTERNAL COMBUSTION ENGINES - GAS FLOW AND FLAME STABILITY AFTER SPARK IGNITION
FTD-MT-64-03 N64-31755 23-27

GAS FLOW IN CHANNEL OF AXIAL FRICTION TURBINE N64-31756 23-02

ACOUSTIC LOSSES IN RESONATOR WITH STEADY GAS FLOW
REPT.-1142 N64-32246 23-23

RIEMANN SOLUTION TO PROBLEM OF FLOW AROUND THIN BODIES
FTD-MT-63-288 N64-32599 23-11

TWO PHASE GAS-LIQUID FLOW OSCILLATIONS, INSTABILITIES, AND EXCURSIONS
DSR-8734-5 N64-33888 24-11

GAS GENERATOR ENGINE
S HEAT ENGINE
S INTERNAL COMBUSTION ENGINE

GAS INJECTION
HYPERVELOCITY WIND TUNNEL TESTS FOR DYNAMIC STABILITY OF CONE WITH NITROGEN GAS INJECTION INTO FLOW FIELD AT NOSE
REPT.-2-59740/3R-479 N64-15343 07-16

SIDE FORCES GENERATED BY LATERAL INJECTION OF SONIC GAS JETS AND PROBE IMMERSION INTO CONSTANT AREA SUPERSONIC DUCT FLOW - THRUST VECTOR CONTROL N64-15633 07-11

HEAT TRANSFER AND RECOVERY TEMPERATURES OF TURBULENT BOUNDARY LAYER ON SHARP CONE WITH FOREIGN GAS INJECTION
NASA-TN-D-2230 N64-17827 09-13

HYDRODYNAMICS OF TWO-PHASE HEAT TRANSFER WITH GAS INJECTION THROUGH POROUS BOUNDARY SURFACE
ANL-6862 N64-27654 19-13

NITROGEN INJECTION IN HYPERSONIC WAKE BASE REGION
MEMO-71 N64-33476 24-11

GAS-ION INTERACTION
FLUID MECHANICS - INTEGRAL EQUATIONS FOR TWO-DIMENSIONAL LATTICE GAS INTERACTION
TH-53/15 N64-21530 15-20

ION-MOLECULE REACTIONS IN METHANE-OXYGEN AND ACETYLENE-OXYGEN SYSTEMS
HUM-6-P N64-29726 21-26

GAS LASER
FREQUENCY MODULATION OF GAS LASER BY AXIAL MAGNETIC FIELD AND NONLINEAR OPTICAL EFFECTS
SSD-TDR-63-351 N64-16086 07-25

FREQUENCY MODULATION OF GAS LASER BY AXIAL MAGNETIC FIELD AND NONLINEAR OPTICAL EFFECTS
SSD-TDR-63-351 N64-16086 07-25

HELIUM-NEON GAS LASER AS LIGHT SOURCE FOR PHOTOGRAPHIC CONTACT PRINTERS
RADC-TDR-64-120 N64-25232 17-15

BREWSTER ANGLE OUTPUT WINDOW REQUIREMENTS FOR LOW GAIN GAS LASER SYSTEMS
RN-177 N64-25965 18-25

GAS LASER, STEADY SOLID-STATE DISCHARGES, AND OUTPUT CONTROL STUDIES
TRG-134-QTR-8 N64-26302 18-25

GAMMA IRRADIATED LASER MATERIALS, TUNNELING STUDIES, MILLIMETER WAVE MASERS, GAS LASERS - SOLID STATE STUDIES N64-27998 20-23

LENGTH-MEASURING INTERFEROMETER USING CONTINUOUS GAS LASER LIGHT SOURCE
Y-1466 N64-29624 21-15

GAS LASER LIGHT SOURCE FOR DEMONSTRATION IN OPTICS N64-30135 21-23

NEON-HYDROGEN LASER AND PHASE RELATIONSHIP BETWEEN OPTICAL PUMP AND PULSED LASER OUTPUT
AD-603405 N64-30907 22-24

RUBY, GAS, AND LIQUID LASER DEVELOPMENT
FTD-TT-64-565/1&2&3&4 N64-32045 23-23

STATIC MAGNETIC FIELD EFFECTS ON CHARACTERISTICS OF HELIUM-NEON LASER
PIBMRI-1222-64 N64-33004 24-23

OPTICAL CHARACTERISTICS OF RUBY LASER EMISSION AND DESIGN OF HELIUM-NEON GAS LASERS
AROD-3309-5 N64-33692 24-23

GAS LASER MEDIA AND OUTPUT CONTROL
TRG-134-QTR-9 N64-33944 24-25

GAS-LIQUID INTERACTION
COMPUTER ANALYSIS OF GAS-LIQUID CHROMATOGRAMS N64-22861 16-16

WATER DROP COALESCENCE - GAS-LIQUID INTERACTION & SURFACE INTERACTION
REPT.-0817-01/01/SP N64-33762 24-11

GAS LUBRICANT
GAS LUBRICATION AT HIGH TEMPERATURES AND LOW FLOW RATES - NITROGEN GAS LUBRICATED JOURNAL AND THRUST BEARINGS
APL-TDR-64-56 N64-25484 17-17

GAS MASER
OPERATION AND FREQUENCY CHARACTERISTICS OF GASEOUS

OPTICAL MASERS N64-15466 07-25

RELIABILITY AND FAILURE MECHANISMS OF GASEOUS OPTICAL MASERS N64-20992 14-25

GAS-METAL INTERACTION
EXAMINATION OF CODIFFUSION OF TWO CHEMICALLY ACTIVE GASES INTO HARD METAL NITROGEN-CARBON-CHROMIUM SYSTEM N64-10674 02-18

GAS MIXTURE
SEPARATION OF GASEOUS MIXTURES OF URANIUM AND PLUTONIUM HEXAFLUORIDES BY THERMAL DECONPOSITION
ANL-6762 N64-10219 01-19

HEAT CONTENT-ENTROPY DIAGRAMS FOR COMBUSTION PRODUCTS OF HYDROCARBON & NITROGEN GAS MIXTURE N64-11973 03-26

NONEQUILIBRIUM BOUNDARY LAYER FLOWS OF FOUR-COMPONENT GAS MIXTURE AROUND NONABLATING BODIES
TDR-269/4230-10/-2 N64-12059 03-11

IGNITION PROPERTIES OF GASEOUS FUEL-AIR MIXTURES WITH APPLICATION TO EXPLOSION-PROOF TESTING
ASD-TDR-62-1081 N64-12227 03-26

EQUILIBRIUM AND NONEQUILIBRIUM PROBLEMS OF BLUNT BODY NEAR STAGNATION POINT IN PLANE AND AXISYMMETRICAL FLOW OF GAS MIXTURE
FTD-TT-63-311/1&2&4 N64-16363 08-13

NONEQUILIBRIUM FLOW OF GAS MIXTURE THROUGH PROPULSIVE NOZZLE OF HYPERSONIC RAMJET
ARC-CP-636 N64-17248 09-02

RESPIRATORY REQUIREMENTS FOR GAS MIXTURES IN MANNED SPACE CAPSULES
NAEC-ACEL-518 N64-17659 09-16

SHOCK WAVE OR SPECIES SEPARATION IN SMALL SUPERSONIC JETS OF GAS MIXTURES - SQUID PROJECT N64-18854 11-11

ANALYSIS OF OXYGEN IN GAS MIXTURES, USING VISCOSITY VARIATIONS OF OXYGEN IN MAGNETIC FIELD
MH-TRANS-504 N64-21618 15-11

OPTIMUM COMPOSITION OF GASEOUS MIXTURES CONTAINIG EASILY IONIZABLE ADDITIVE
FTD-TT-62-1893/1&2&4 N64-22408 15-24

ATOMIC COLLISION PROCESSES IN GAS MIXTURES DURING AND AFTER EXCITATION BY MICROWAVE DISCHARGES
AROD-3511-1 N64-22514 15-12

FORMATION OF DETONATION WAVES IN COMBUSTIBLE GASEOUS MIXTURES
WSS/CI PAPER-64-15 N64-24378 17-26

PHYSICAL PROCESSES WITHIN MASS SPECTROMETER AND EFFECT ON MEASUREMENTS OF GAS MIXTURE COMPOSITION N64-26965 19-15

QUANTITATIVE ANALYSIS OF GAS MIXTURE COMPOSITION BY OMEGATRON MASS SPECTROMETER N64-26966 19-15

CRYOGENIC PUMPING OF GASEOUS MIXTURES
ONERA-TP-109/1964 N64-28028 20-11

CRYOPUMPING CAPTURE COEFFICIENTS OF TWO NITROGEN-OXYGEN GAS MIXTURES
AEDC-TDR-64-150 N64-28578 20-23

SEPARATION OF PURE HELIUM FROM NATURAL GASES BY DEEP COOLING
RSIC-226 N64-30966 22-07

VELOCITY POTENTIAL EQUATION FOR PLURI-REACTING GAS MIXTURES
IA-103 N64-31063 22-11

PREPARATION OF GAS MIXTURES FOR SHOCK TUNNEL TESTS OF CARBON DIOXIDE FORMATION - CHEMICAL KINETICS
GDA-DBE-64-044 N64-31113 22-07

DIFFERENCES IN BINARY DIFFUSION COEFFICIENTS RELATED TO MULTICOMPONENT GAS MIXTURES
FTD-TT-64-198/1&2 N64-32234 23-11

CHEMICAL KINETICS OF COMBUSTION OF HOMOGENEOUS GAS MIXTURES IN LIQUID PROPELLANT ROCKET ENGINES
FTD-MT-64-272 N64-32241 23-26

ENERGY AND MOMENTUM EXCHANGE BETWEEN COMPONENTS OF NON-EQUIPARTITION GAS MIXTURE
ARAP-45 N64-32388 23-11

ACTIVATED COCONUT CHARCOAL APPARATUS FOR DETERMINING HELIUM CONTENT OF GAS MIXTURES
BM-RI-6545 N64-33018 24-07

APPROXIMATE FORMULAS FOR VISCOSITY AND THERMAL CONDUCTIVITY OF MONATOMIC GAS MIXTURE
NASA-TN-D-2502 N64-33084 24-11

GAS PHASE
COMPOSITION DEPENDENCE OF NONEQUILIBRIUM EFFECTS IN GAS PHASE REACTIONS - SQUID PROJECT
BRN-9-P N64-13097 04-23

REACTIONS OF IONS AND ELECTRICALLY EXCITED SPECIES WITH ATOMS AND MOLECULES IN GAS PHASE - SQUID PROJECT N64-13487 05-24

MOLYBDENUM SINGLE CRYSTAL GROWTH FROM GASEOUS PHASE OF MOLYBDENUM CHLORIDE BY THERMAL DISSOCIATION N64-13730 05-25

SEPARATION REFERENCES FOR VARIOUS TYPES OF TWO-PHASE GAS-LIQUID FLOW
DSR-8734-1 N64-14032 05-11

INFLUENCE OF GAS COMPOSITION, PRESSURE, AND TEMPERATURE ON SOLID PROPELLANT IGNITION
AIAA PAPER-64-118 N64-14548 06-26

GAS PHASE REACTIONS ASSOCIATED WITH COMBUSTION OF COMPOSITE SOLID PROPELLANTS - APPARENT FLAME STRENGTH
AD-428627 N64-14794 06-26

STANDARDIZED TITRATION OF OXYGEN AND NITROGEN WITH NITROGEN DIOXIDE AND NITROGEN OXIDE FOR GAS PHASE CONCENTRATION DETERMINATIONS
SR-4-3 N64-15751 07-24

PROPERTIES OF GAS PHASE FREE RADICALS AND DEVELOPMENT OF MOLECULAR BEAM REACTOR
AD-412955 N64-17868 10-23

ORTHO- AND PARA-TRITIUM IN HOMOGENEOUS GAS AND SOLID PHASES N64-18136 10-23

HIGH TEMPERATURE CHEMISTRY AND PHYSICS OF GASES AND GAS-CONDENSED PHASE REACTIONS - BIBLIOGRAPHY
REPT.-11 N64-19811 12-07

SOUND WAVE PROPAGATION IN GAS SATURATED POROUS MEDIUM HAVING RIGID SHELL N64-27987 20-23

BIBLIOGRAPHY OF GAS AND CONDENSED PHASE REACTIONS OF HIGH TEMPERATURE CHEMISTRY AND PHYSICS N64-28694 20-07

REACTION KINETICS OF NITROGEN DIOXIDE WITH HYDRAZOIC ACID IN GAS PHASE
TIL/T-5369 N64-28805 20-07

INTERACTIONS OF HIGH ENERGY PHOTONS AND ELECTRONS WITH MATTER IN GAS PHASE AND MASS CHARGE SPECTRA MEASUREMENTS PRODUCED BY X-RAY & HIGH ENERGY ELECTRON IONIZATION
ML-TDR-64-169 N64-31893 23-07

EPITAXIAL VAPOR ANALYZER SYSTEM FOR MONITORING GAS PHASE COMPOSITIONS
AFCRL-64-582 N64-33932 24-10

GAS PRESSURE
MEASUREMENT OF OXYGEN, CARBON DIOXIDE, & NITROGEN GAS PRESSURES IN ALVEOLUS AND ARTERY REGIONS N64-17940 10-16

PARAMETERS GOVERNING DESIGN OF PRESSURIZED-GAS SYSTEMS FOR SPACECRAFT
NASA-CR-53393 N64-18107 10-17

MULTIPACTOR EFFECT APPLIED TO PROBLEM OF TRANSMITTING HIGH POWER LEVELS THROUGH WAVEGUIDES OPERATING AT LOW GAS PRESSURES
SSD-TDR-64-77 N64-22322 15-08

SPIN RELAXATION OF OPTICALLY PUMPED CESIUM VAPOR AS FUNCTION OF BUFFER GAS PRESSURE FOR VARIOUS INERT GASES
R-202 N64-25862 18-23

TUBE DESIGN WITH IDENTICAL GAS PRESSURE IN ION SOURCE AND ACCELERATING SYSTEM N64-31780 23-23

THERMOMOLECULAR PRESSURE RISE IN GAS APPLIED TO ENERGY CONVERSION
ASD-TDR-63-776, VOL. II N64-32567 23-11

CONTROL OF GAS PRESSURE BUILDUP IN THERMOELECTRIC SNAP GENERATORS
MND-3143-1 N64-32932 24-06

GAS PROPELLANT
HEATING RELATED TO IMPINGEMENT OF ROCKET EXHAUST ON SPACE SUIT SURFACES AND PERFORMANCE OF INERT HEATED GASES AS PROPELLANTS
ASD-TDR-63-729 N64-32645 23-26

GAS REACTOR
TWO-DIMENSIONAL GRAY-GAS RADIANT HEAT TRANSFER IN COAXIAL-FLOW GASEOUS REACTOR
NASA-TN-D-2124 N64-15909 07-13

NUCLEAR CRITICALITY CALCULATIONS ON SPHERICALLY SYMMETRIC GASEOUS-CORE REACTOR - BOLTZMANN TRANSPORT EQUATION
GNE/PHYS-64-14 N64-33865 24-23

GAS-SOLID INTERFACE
MOLECULAR INTERACTIONS AT GAS-SOLID INTERFACES
HE-150-208 N64-18623 11-23

OPTICAL FIBER DETERMINATION OF SOLID PARTICLE VELOCITY IN TWO-PHASE GAS-SOLIDS IN TURBULENT PIPE FLOW - SQUID PROJECT
PR-107-P N64-19635 12-11

EPITAXIAL GROWTH OF GALLIUM ARSENIDE AND GALLIUM PHOSPHIDE USING HETEROGENEOUS GAS-SOLID CHEMICAL REACTIONS
SEL-63-105 N64-21491 14-07

GAS-SOLID INTERACTIONS AT ELECTRODE SURFACES - INTERACTION OF INORGANIC GASES WITH NICKEL OXIDE
GA-5099 N64-30150 21-25

GAS SPECTROSCOPY
INFRARED GAS SPECTROSCOPY OF ALKYL HALIDES
AROD-3895-3 N64-32025 23-23

LOW PRESSURE GAS SPECTROSCOPY APPARATUS
AFCRL-64-358 N64-32573 23-07

GAS STREAM
AVERAGE PRESSURE MEASUREMENT IN PULSATING GAS STREAMS
DFL-209 N64-10234 01-10

INSTRUMENT FOR MEASURING LOW CONCENTRATIONS OF HYDROCARBONS AND CARBON DIOXIDE IN GASES
WRE-TN-CPD-63 N64-10411 01-15

TEMPERATURE MEASUREMENT OF EQUILIBRIUM, NONRADIANT HOT GAS STREAMS
NASA-RP-75 N64-10523 01-13

IMPROVEMENT OF MASS SPECTROMETER USED TO ANALYZE SILICON EPITAXIAL REACTOR GAS STREAM COMPONENTS
AFCRL-63-350 N64-12237 03-15

TREATMENT OF LOSSES FOR ONE-DIMENSIONAL MIXING BETWEEN HOT AND COLD GAS STREAMS AT CONSTANT PRESSURE AND LOW VELOCITY
ARC-CP-686 N64-16531 08-11

COMPUTER PROGRAM FOR TEMPERATURE EFFECTS ON FISSION PRODUCTS FROM GAS STREAMS ONTO CONDUIT SURFACE
ORNL-3542 N64-17743 09-23

AERODYNAMIC COMPRESSION OF GAS STREAMS IN CONVERGENT AND CONVERGENT-DIVERGENT NOZZLES
FTD-TT-62-1555/1&2&4 N64-19250 11-11

ABLATION BEHAVIOR OF CHARRING MATERIAL IN HIGH VELOCITY STREAMS OF ARC HEATED AIR, NITROGEN, AND ARGON
NASA-RP-179 N64-21278 14-13

HEATING AND IONIZATION OF GAS STREAM BY PULSED CORONA DISCHARGE
ARL-64-43 N64-22313 15-24

MEMBRANE TRANSDUCERS TO MEASURE PRESSURE PULSE IN AIR STREAM
FTD-TT-63-737/1&2&4 N64-22660 15-02

KINETICS OF OZONE SYNTHESIS IN GAS STREAM AT REDUCED PRESSURE N64-23663 16-07

HEAT AND MASS TRANSFER IN EVAPORATION OF LIQUID IN FORCED GAS STREAM
AID-T-64-29 N64-28639 20-13

INFLUENCE OF GAS STREAMS AND MAGNETIC FIELDS ON ELECTRIC DISCHARGES - ARCS AT ATMOSPHERIC PRESSURE IN ANNULAR GAPS
ARC-CP-743 N64-29236 21-24

DEPOSITION OF FISSION PRODUCTS FROM HELIUM GAS STREAM AT HIGH TEMPERATURES AND FLOWING AT HIGH VELOCITIES
BMI-1688 N64-30024 21-11

GAS TRANSPORT
GAS TRANSPORT ACROSS SKIN IN MAN AND EFFECT OF AMBIENT TEMPERATURE ON TRANSFER RATE
N64-17949 10-14

TRANSPORT OF PLUTONIUM TETRACHLORIDE VAPOR IN CHLORINE GAS DURING REACTION OF URANIUM AND PLUTONIUM OXIDES WITH CARBON TETRACHLORIDE
ORNL-3693 N64-32415 23-07

GAS TUBE
INSPECTION AND QUALITY AND CONTROL TESTING OF MICROWAVE DUPLEXING TUBES
AD-601465 N64-22702 15-17

GAS TURBINE
SA AFTERBURNER
SA AIRCRAFT ENGINE
HEAT POWER ENGINEERING - GAS TURBINE, BOILING, AND GAS FLOW STUDIES
FTD-TT-62-1456/1&2&4 N64-11139 02-01

APPLICATION OF THEORY OF SIMILARITY TO GAS TURBINE WORK REGIMES N64-11140 02-06

CONVECTIVE HEAT EXCHANGE BETWEEN GAS-TURBINE DISK AND SCREEN - GENERALIZED STEADY-STATE PROCESS STUDY N64-11966 03-29

HEAT EXCHANGE BETWEEN GAS-TURBINE DISK AND COOLING SCREEN WITH ARBITRARY TEMPERATURE DISTRIBUTION
N64-11970 03-13

HEAT-RESISTANT STEELS & ALLOYS - ALLOYING ELEMENTS AND USE IN GAS-TURBINE INSTALLATIONS
JPRS-22781 N64-13349 04-18

ROTARY REGENERATOR FOR AIRCRAFT GAS TURBINES
PWA-2174, SUPPL. A N64-14025 05-27

TWO-STAGE LOW REACTION TRACTION TURBINE SUITABLE FOR GAS TURBINE LOCOMOTIVE
MT-50 N64-14084 05-06

GAS TURBINE ROTOR BLADE FABRICATION FROM CAST MATERIAL N64-17080 09-17

FLUID FLOW IN GAS TURBINE AND IN AXIAL COMPRESSOR
FTD-TT-63-81/1&2 N64-17173 09-01

CALCULATION OF RADIAL FLOWS IN GAS TURBINE STAGE
N64-17174 09-13

STRUCTURAL DAMPING OF OSCILLATIONS OF THIN WALLED SHELLS FOR HOUSING COMPONENTS OF GAS TURBINE

ENGINE
FTD-MT-63-131 N64-18680 11-34

GAS TURBINES USED IN AIRCRAFT PROPULSION SYSTEMS
JPRS-24549 N64-19888 12-27

CONTROL OF SECONDARY AIR JET IN COMBUSTION CHAMBERS OF GAS TURBINES
FTD-TT-62-1786/1&2 N64-21646 15-26

AERODYNAMIC STUDY OF STAGES OF STEAM AND GAS TURBINES AT LOW VELOCITIES
FTD-TT-62-1742/1&2&4 N64-21924 15-06

FORMULAS FOR COMPUTATION OF BASIC DIMENSIONS OF CENTRIPETAL GAS TURBINES
FTD-TT-63-682/1&2&4 N64-21952 15-06

THERMAL STRESSES IN AIR COOLED DISKS OF ROTARY GAS TURBINES
FTD-TT-64-145/1&2 N64-21974 15-13

STRUCTURAL STRENGTH OF GAS TURBINE PLATES UNDER UNSTEADY OPERATING CONDITIONS
FTD-TT-62-1798/1&2&4 N64-22144 15-33

WELDING OF AUSTENITIC HEAT RESISTANT STEELS AND ALLOYS USED IN BUILDING GAS TURBINES
JPRS-25100 N64-22736 16-17

DETERIORATION OF GAS TURBINE MATERIALS BY SULFUR, VANADIUM, AND ALKALI COMPONENTS OF LIQUID FUEL
N64-23319 16-26

CORROSION OF GAS TURBINE MATERIALS BY DUST-BEARING HOT GAS N64-23320 16-26

SIGNAL CONVERSION DURING SIMULATION OF DYNAMIC PROPERTIES OF GAS TURBINE ENGINES
N64-23597 16-04

AIR COOLED GAS TURBINES
FTD-TT-62-1023/1&2&4 N64-24249 17-11

TEMPERATURE MEASUREMENT OF ROTOR DISK OF AIR COOLED GAS TURBINE N64-24250 17-11

AIR COOLING OF HIGH TEMPERATURE GAS TURBINE FOR POWERPLANT USE N64-24251 17-11

RELIABILITY AND INCREASE IN WORKING LIFE OF CONTROL AND FUEL-SUPPLY EQUIPMENT OF GAS TURBINE ENGINES N64-25436 17-04

MOTION EQUATIONS FOR FLUID FLOW THROUGH JET ATOMIZERS OF GAS TURBINE ENGINE
N64-25438 17-27

SOLDERING GAS TURBINE BLADES
FTD-TT-64-142/1&2&4 N64-25446 17-15

RESISTANCE & RESTORATION OF ANNULAR DIFFUSERS WITH CYLINDRICAL & CONICAL INSERTS FOR MARINE GAS TURBINES
FTD-TT-63-1039/1&2 N64-25454 17-02

AIRCRAFT GAS TURBINE ENGINES
FTD-TT-63-405/1&2 N64-26190 18-27

FLOW OVER TURBINE INLET LATTICES AND TEMPERATURE DISTRIBUTION IN ROOT JOINT OF COOLED GAS TURBINE BLADE
FTD-MT-63-202 N64-26729 18-11

MAGNETIC AIR BRAKE FOR TEST OF GAS MICROTURBINES
FTD-MT-63-293 N64-26731 18-17

TEMPERATURE FIELDS IN GAS TURBINE COMPONENTS AND ELECTRIC CONDUCTIVITY OF FLAME
FTD-TT-62-1568/1&2&4 N64-26733 18-13

SIMILARITY THEORY METHODS FOR GAS TURBINE REGULATORY SYSTEMS
FTD-TT-62-1815/1&2&4 N64-26817 18-17

GAS TURBINE AND MAGNETOHYDRODYNAMIC GENERATOR FOR ENERGY AND HIGH ENERGY PULSE GENERATION
N64-27114 19-06

100,000-KW GAS TURBINE GENERATOR
N64-27117 19-06

HEAT TRANSFER AND TEMPERATURE FIELDS OF GAS TURBINE VANES N64-27128 19-13

CHROMIUM-NICKEL STEELS WITH TUNGSTEN, MOLYBDENUM, AND TITANIUM FOR GAS TURBINE PARTS
N64-27149 19-18

FEASIBILITY OF HARMONIC DRIVE SPEED REDUCTION GEARS FOR USE IN GAS-TURBINE POWERED HELICOPTER
TRECOM-TR-64-12 N64-27856 19-17

STRUCTURE OF TURBULENT COMPRESSIBLE FLUID FLOW IN GAS TURBINES N64-28477 20-11

SWIRL ATOMIZER FOR FUEL INJECTION IN GAS TURBINE COMBUSTION CHAMBER N64-28586 20-26

GAS TURBINE COOLING FOR IMPROVED ENGINE PERFORMANCE
NASA-TM-X-51765 N64-28918 20-13

CONVECTIVE HEAT TRANSFER AND FLOW FRICTION CHARACTERISTICS OF SKEWED PASSAGE AND GLASS-CERAMIC COMPACT HEAT EXCHANGER SURFACES FOR GAS TURBINE REGENERATOR DESIGN
TR-59 N64-30919 22-13

VACUUM MELTING AND CASTING OF NICKEL-BASED ALLOYS FOR GAS TURBINE BLADES N64-31518 23-17

CONCENTRATION AND PARTICLE SIZE DISTRIBUTION OF DUST PASSING GAS TURBINE AIR CLEANERS AND ENTERING ENGINE
TRECOM-TR-64-16 N64-32614 23-27

GASEOUS DIFFUSION
SEPARATION OF GASEOUS HYDROGEN-ARGON, HYDROGEN-KRYPTON AND HELIUM-KRYPTON IN POROUS BARIUM FERRITE WITHIN PRESSURE AND TEMPERATURE GRADIENT
JPRS-18180 N64-10571 01-23

SORPTION OF GASES BY VAPOR-DEPOSITED TITANIUM FILMS
ORNL-3481 N64-16526 08-23

GEOMETRICAL ASPECTS OF DIFFUSION PROPAGATION WHICH GOVERN ACOUSTIC BEHAVIOR OF GAS-FILLED CHAMBERS AT INFRASONIC FREQUENCIES
NOLTR-63-139 N64-16882 08-20

FISSION GAS DIFFUSION AND RADIATION DAMAGE IN UNFUELED CERAMIC MATERIALS N64-16999 09-23

HYDROGEN ATOM, GASEOUS DIFFUSION, COSMIC RAY, SCINTILLATION, AND WIND DISTRIBUTION STUDIES
ANL-6769 N64-17107 09-23

SAMPLING TIME EFFECT ON DETERMINING MAXIMUM CONCENTRATIONS OF GAS DIFFUSION IN TURBULENT FLOW
E-T-G-63-25 N64-18661 11-11

FUEL CELLS - MASS TRANSFER IN SOLID METAL ELECTRODES, AND GAS SOLUBILITY AND DIFFUSIVITY IN ELECTROLYTES
UFGG-8 N64-25861 18-06

CALIBRATION OF DIATRON MASS SPECTROMETER BY GASEOUS DIFFUSION THROUGH SINGLE POLYMER MEMBRANE
NASA-TM-X-51927 N64-29519 21-15

MEASUREMENT OF DIFFUSIVE SEPARATION OF ARGON AND NITROGEN BY RADIO FREQUENCY MASS SPECTROMETER
NASA-RP-321 N64-32639 23-12

GASEOUS FISSION REACTOR
URANIUM-235 PRODUCTION BY THERMAL MOTION OF DEUTERON IN GASEOUS FISSION REACTOR
RM-3851-AEC N64-15673 07-23

GASEOUS CORE REACTORS FOR NUCLEAR POWERED SPACE PROPULSION N64-31613 23-27

GASEOUS IONIZATION
SA PENNING DISCHARGE
GASEOUS BREAKDOWN MECHANISM AND TOWNSEND RELATION
R-75 N64-11596 03-23

BIMOLECULAR RATE CONSTANT FOR ION-ION RECOMBINATION OF GASEOUS IONS
UCRL-10904 N64-11986 03-23

EFFECTS OF IONIZATION ON FLOW AND HEAT TRANSFER OF DENSE GASES
ASD-TDR-63-842 N64-14315 06-24

NONEQUILIBRIUM THERMAL IONIZATION OF AIR IN HYPERSONIC FLOWS OVER SHARP CONES
BSD-TDR-63-231 N64-14780 06-11

CHEMICAL RELAXATION BEHIND NORMAL SHOCK WAVES IN CARBON DIOXIDE INCLUDING INTERDEPENDENT DISSOCIATION AND IONIZATION PROCESSES
NASA-TN-D-2131 N64-15221 07-07

MONTE CARLO METHOD OF INVESTIGATING EARLY STAGES OF IONIZATION OF NEUTRAL HELIUM PRODUCED BY LARGE AMPLITUDE MAGNETIC PUMPING IN STELLARATOR
MATT-211 N64-16562 08-24

IONIZATION OF HYDROGEN GAS AT LOW PRESSURE BY RADIO FREQUENCY FIELD
AFCRL-63-948 N64-17863 10-23

CALCULATION OF ATOMIC PHOTOIONIZATION CROSS SECTIONS FOR REAL GASES
AID-P-64-12 N64-18385 10-23

SCATTERING OF ELECTRONS AND IONS BY DUST PARTICLES IN GAS - SQUID PROJECT
ILL-14-P N64-19637 12-24

SHOCK TUBE DEVELOPMENT - DOWNSTREAM IONIZATION OF RARE GASES AND RELAXATION IN TRIATOMIC LINEAR MOLECULAR GASES
TN-130 N64-20422 13-11

MASS SPECTROMETRY OF IONIZATION PROCESSES IN NITROGEN - AURORAL AFTERGLOW PROCESS
AFCRL-64-259 N64-21416 14-12

IONIZATION MECHANISM FOR CESIUM VAPOR IN PRESENCE OF HOT BODY
USAELRDL-TR-2434 N64-21493 14-24

SPECTROSCOPIC DETERMINATION OF ELECTRON TEMPERATURE AND PERCENTAGE IONIZATION IN HELIUM PLASMA
NASA-RP-195 N64-22070 15-24

HEATING AND IONIZATION OF GAS STREAM BY PULSED CORONA DISCHARGE
ARL-64-43 N64-22313 15-24

OPTIMUM COMPOSITION OF GASEOUS MIXTURES CONTAINIG EASILY IONIZABLE ADDITIVE
FTD-TT-62-1893/1&2&4 N64-22408 15-24

IONIZATION OF ARGON IN UPPER ATMOSPHERE
NASA-TT-F-8817 N64-22935 16-12

ABSORPTION OF RESONANCE RADIATION IN CESIUM VAPOR AND EFFECT OF RESONANCE RADIATION ON IONIZATION PROCESSES IN CESIUM VAPOR PLASMAS
EOS-3130-ANNUAL N64-24915 17-24

AIR IONIZATION IN HYPERSONIC LAMINAR WAKE OF SHARP CONES
BSD-TDR-64-81 N64-25245 17-03

ELECTRON IMPACT IONIZATION AND ATTACHMENT IN POLYATOMIC GASES, AND CORONA-INDUCED WEIGHT LOSS IN MYLAR AND H FILMS
ML-TDR-64-57 N64-26308 18-07

MAGNETICALLY INDUCED IONIZATION IN XENON
AD-600531 N64-26532 18-23

HYDRODYNAMIC EQUATIONS OF GASEOUS IONIZATION
N64-28186 20-11

IONIZING RADIATION EFFECTS ON LIQUID PYRIDINE - PRODUCTION OF POLYPRIDINES AND HYDROGEN AND ACETYLENE GASES
USAEL-TR-2485 N64-32442 23-07

GASKET
CF SEALING
AGING OF INSTALLED RUBBER & PLASTIC GASKETS IN SIMULATED FLIGHT HARDWARE
NASA-TM-X-54517 N64-17607 09-19

COMPOSITE FIBER-METAL GASKET FOR SEALING IN FUEL SYSTEMS OF AEROSPACE VEHICLES - SEALANTS
ERR-FW-174 N64-18946 11-17

FLANGES AND GASKETS
RSIC-171 N64-22916 16-17

ELASTOMERIC GASKET MATERIALS FOR CRYOGENIC APPLICATIONS
NASA-CR-56648 N64-24015 16-19

STATIC SEALS FOR CRYOGENIC SYSTEMS - BIBLIOGRAPHY
N64-25124 17-19

ADHESIVES, SEALS, GASKETS, AND POLYMERIC MATERIALS FOR AEROSPACE APPLICATIONS - BIBLIOGRAPHY
SB-63-77 N64-26823 18-19

SEAL INTERFACE STUDIES, EXPERIMENTS ON GASKET MATERIALS AND GEOMETRY, AND DESIGN CRITERIA FOR ZERO LEAKAGE CONNECTORS
NASA-CR-56571 N64-27305 19-17

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - SEALS, O-RINGS, AND GASKETS
RSIC-150, VOL. I, APPEND. H N64-27487 19-19

AGING OF GASKET MATERIALS INSTALLED AS SIMULATED LAUNCH VEHICLE HARDWARE
NASA-CR-58713 N64-29216 21-17

GASOLINE
SA PETROLEUM
RADIOACTIVE TRACER TECHNIQUE FOR STUDYING GUM FORMATION IN GASOLINE DURING STORAGE
BM-RI-6373 N64-15607 07-26

45 WATT THERMIONIC GENERATOR HEATED BY LEADED GASOLINE AND AIR COMBUSTION N64-17387 09-06

FORMATION OF FATTY ACIDS BY OXIDATION OF ALKYLATED GASOLINE FRACTION
FTD-MT-64-02 N64-31915 23-07

CATALYTIC COMBUSTION HEAT SOURCES USING LEADED GASOLINE BURNER FOR THERMAL ENERGY CONVERTERS
REPT.-3 N64-32601 23-06

GASTROINTESTINAL TRACT
ANATOMICAL & PHYSIOLOGICAL DATA OF GASTRO-INTESTINAL TRACT FOR CALCULATING LEVELS OF RADIOACTIVE CONTAMINATION IN FOOD CHAIN
EUR-489.F N64-16927 09-16

GAUGE
SA ION GAUGE
SA MCLEOD GAUGE
SA PRESSURE GAUGE
SA STRAIN GAUGE
SA THERMOCONDUCTIVITY GAUGE
CF METER
RESISTANCE CHANGES IN GAUGES DURING STABILIZATION AND ATTACHMENT
ARL/SM-279 N64-10984 02-15

PRECISION HEIGHT GAUGE
NASA-SP-5001 N64-14062 05-15

LEVEL GAUGE FOR DETECTION OF LIQUID METALS
PWAC-423 N64-19283 11-15

RESONANT CAVITY METHOD FOR MEASURING LIQUID LEVEL IN METAL VESSEL - LEVEL GAUGE
FTD-TT-63-562/1&2&4 N64-23304 16-15

PHANTOM GAUGE DIMENSIONING - COMBINED PART AND GAUGE SPECIFICATIONS ON SAME DRAWING
SC-TM-64-669 N64-26927 18-15

FOIL-GAUGE COATED METAL FOR HEAT SHIELD USE
N64-27023 19-18

GAUGE INVARIANCE
NASA-CR-56788 N64-27903 20-23

RADIATIVE HEAT TRANSFER GAUGE FOR HYPERVELOCITY SHOCK TUBE
NASA-CR-58668 N64-29007 20-15

CONSTRUCTION OF GAUGE-INVARIANT NONLOCAL FORM OF QUANTUM ELECTRODYNAMICS
TH-38/11 N64-30541 22-23

GAUGES USING RADIOACTIVE ISOTOPES TO MEASURE SEDIMENT CONCENTRATION IN WATER AND TO MEASURE ATMOSPHERIC DENSITY
NYO-10220 N64-30772 22-12

PEAK LOAD SELF-RECORDING ON-STRUCTURE STRESS GAUGE
WL-TDR-64-11 N64-30827 22-15

GAUSS FUNCTION
CONDITIONS FOR ORTHOGONALITY AND EQUIVALENCE OF GAUSSIAN MEASURES IN FUNCTIONAL SPACE
MH-TRANS-423 N64-11569 03-20

EXTENSION OF GAUSSIAN QUADRATURE FORMULA TO CASE OF M VARIABLES
STL-TRANS-77 N64-12016 03-20

INVERSION OF HYPERGEOMETRIC TRANSFORM USING GAUSS FUNCTION AS FRACTIONAL INTEGRAL
DI-82-0251 N64-18349 10-20

ATOMIC ORBITAL AND ENERGY BAND CALCULATIONS WITH GAUSSIAN AND SLATER FUNCTIONS
NONR-1841/34/ N64-19267 11-25

GAUSS CURVATURE OF NONPARAMETRIC MINIMAL SURFACES
AROD-1323-31 N64-19549 12-20

MEMBRANE DEFORMATIONS FOR SHALLOW SHELLS HAVING POSITIVE GAUSSIAN CURVATURE
FTD-TT-63-598/1626364 N64-21951 15-33

ABSCISSAS AND COEFFICIENTS FOR GENERALIZED GAUSS-LAGUERRE QUADRATURE FORMULA USING ZERO ORDINATE
NASA-TM-X-53099 N64-29179 21-20

GAUSSIAN NOISE
LARGE SAMPLE ESTIMATION OF UNKNOWN DISCRETE WAVEFORM WHICH IS RANDOMLY REPEATING IN GAUSSIAN NOISE
TECH. REPT.-93 N64-16656 08-08

ASYMPTOTIC METHOD OF OPTIMUM SIGNAL DETECTION IN GAUSSIAN NOISE
MRC-456 N64-20337 13-20

PROBABILITY DENSITIES DEFINED BY ZERO CROSSING POINTS OF ENVELOPE OF SINE WAVE PLUS GAUSSIAN PROCESS
TR-AF-108 N64-26041 18-23

GAUSSMETER
TORQUE MAGNETOMETER GAUSSMETER WITH WEAK FERROMAGNETIC ROTORS
TN-9 N64-33492 24-15

GEAR
SA LANDING GEAR
CF DRIVE
METAL DEFORMATION AND INDUCTION HEATING DURING ROLLING OF GEARS - COMPARISON WITH MACHINED GEARS
JPRS-19273 N64-10509 01-17

WEAR ANALYSIS OF NONLUBRICATED SPUR GEARS
NASA-CR-53197 N64-17227 09-17

ELASTOHYDRODYNAMIC LUBRICATION FOR ROLLING CONTACT BEARINGS, GEARS, AND CAMS
MTI-64TR6 N64-21121 14-17

HELICOPTER GEAR LUBRICATION
S-131914 N64-24014 16-04

ELECTRICAL SWITCHGEAR FOR SPACE NUCLEAR ELECTRICAL SYSTEMS
NASA-CR-54059 N64-24054 16-09

REDUCTION GEAR RATIO IN OPTIMAL RESPONSE SERVO SYSTEM N64-24515 17-09

ANNOTATED BIBLIOGRAPHY ON GEARS, BEARINGS, AND LUBRICANTS FOR AEROSPACE APPLICATIONS
SB-63-59 N64-24921 17-17

FRICTION IN BEARINGS AND GEAR TRAIN OF FLYWHEEL ACCELERATION INTEGRATOR
NOLTR-63-127 N64-26239 18-17

FEASIBILITY OF HARMONIC DRIVE SPEED REDUCTION GEARS FOR USE IN GAS-TURBINE POWERED HELICOPTER
TRECOM-TR-64-12 N64-27856 19-17

CONFORMAL GEAR FOR HELICOPTER POWER TRANSMISSION
TRECOM-TR-64-28 N64-31954 23-17

PLASTIC GEARS FOR MILITARY USE
PLASTEC-16 N64-33299 24-19

GEAR TOOTH
CALCULATION OF STATIC STRESS IN GEAR TEETH N64-28485 20-33

GEHLENITE
LOW TEMPERATURE HEAT CAPACITY & ENTROPY OF AKERMANITE, CORDIERITE, GEHLENITE, & MERWINITE
BM-RI-6343 N64-12121 03-13

GEIGER COUNTER
SA NEUTRON COUNTER
GEIGER COUNTER FOR NIKE-APACHE LAUNCHED PROBE OF SOFT X RAYS IN IONOSPHERE DURING SOLAR ECLIPSE
NASA CR-52164 N64-10086 01-12

ELECTRON PRECIPITATION MEASUREMENT BY GEIGER COUNTER TUBE ON INJUN III SATELLITE
NASA-CR-55173 N64-13059 04-28

GEIGER COUNTER FOR MEDICINAL AND INDUSTRIAL APPLICATIONS N64-23149 16-09

AEROBEE ROCKET MEASUREMENT OF SOFT X-RAY FLUXES USING THIN WINDOW GEIGER COUNTERS
ASE-394 N64-24994 17-28

GEIGER COUNTER AND X-RAY FILM TECHNIQUES TO STUDY CRYSTALLINE STRUCTURES OF THIN TITANIUM FILMS AND COATINGS FORMED BY VACUUM DEPOSITION
REPT.-8251 N64-33792 24-17

GEL
MECHANISM OF RADIATION-INDUCED GEL FORMATION IN MONOMER-POLYMER MIXTURES
RAI-329 N64-14670 06-07

MINIMIZING OPTICAL DISTORTIONS OF GEL COATS USED IN FABRICATION OF RIGIDIZED INFLATABLE SOLAR ENERGY CONCENTRATORS
NASA-CR-53356 N64-17823 09-06

POLYSULFIDE GEL COATING MATERIALS FOR RIGID SOLAR ENERGY COLLECTORS
NASA-CR-53355 N64-18105 10-06

SOLIDIFICATION OF HYDROCARBON FUELS - GELS
AD-439722 N64-26688 18-19

ADSORPTION OF FLUOROCARBONS ON SILICA AND FERRIC OXIDE GELS
AD-601718 N64-31092 22-07

GELLING OF LIQUID HYDROGEN
NASA-CR-54055 N64-33076 24-26

GELATIN
GELATIN - MATERIAL FOR STIFFENING AEROSPACE STRUCTURES N64-23709 16-19

MECHANICAL DESTRUCTION OF GELATINS BY ELECTRON PARAMAGNETIC RESONANCE N64-28037 20-07

GEMINI PROJECT
GEMINI AGREEMENT BETWEEN NASA AND DEFENSE DEPARTMENT N64-11731 03-32

GEMINI PROJECT - AERODYNAMIC PERFORMANCE OF BALLUTE DECELERATORS MOUNTED TO MODEL SUPPORT

STRUT & TO RIGID MANIKIN
AEDC-TDR-63-255 N64-12073 03-02

BREAKDOWN AND TOXIC PROPERTIES OF MATERIALS USED IN SPACE VEHICLES OF APOLLO, MERCURY, GEMINI, AND DYNA-SOAR PROJECTS
AMRL-TDR-63-99 N64-17327 09-19

GEMINI PROJECT - PROGRAM PLAN FOR LAUNCH VEHICLE GUIDANCE COMPUTER
AD-431251 N64-21349 14-01

GEMINI PROGRAM TO STUDY MANNED SPACECRAFT OPERATIONS IN SPACE ENVIRONMENT
NASA-RP-239 N64-26038 18-32

GEMINI PROJECT QUICK LOOK ANALYSIS PROGRAM REQUIREMENTS
TOR-469/A5126-10/-2, VOL. 1 N64-27082 19-20

FAILURE MODES AND RELATIVE PROBABILITIES OF MALFUNCTIONS IN GEMINI LAUNCH VEHICLE CONTROL AND ASSOCIATED ELECTRIC AND HYDRAULIC SUBSYSTEMS
LV-304, REV. A N64-27192 19-06

INTEGRATED TEST PLAN FOR GEMINI AGENA TARGET VEHICLE
LMSC-A306106-B N64-30806 22-10

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINE, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-19 N64-31577 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-20 N64-31578 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-21 N64-31579 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-22 N64-31580 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT SYSTEM, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN P IREMENTS
REPT.-393-01M-23 N64-31581 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT SYSTEM, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-24 N64-31582 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT SYSTEM, ROCKET ENGINES, AND PILOT SAFETY
REPT.-393-01M-26 N64-31583 23-27

GEMINI LAUNCH VEHICLE - RELIABILITY AND SUMMARY DATA ON YLR87-AJ-5 AND YLR91-AJ-5 ROCKET ENGINE
REPT.-393-3.4-M-12 N64-31584 23-27

CRITICAL-COMPONENT-CONTROL PROGRAM FOR GEMINI LAUNCH VEHICLE PROPULSION SYSTEM
AFBM-58-1 N64-31586 23-..

RELIABILITY PROGRAM FOR GEMINI PROPULSION SYSTEM
REPT.-0788-PP-1-R N64-31587 23-17

WIRE DAMAGE TESTING OF GEMINI INTERSTAGE HARNESS BY PROPELLANT COMPATIBILITY, HUMIDITY, VIBRATION, AND ALTITUDE
LV-346 N64-31599 23-17

SLOW MALFUNCTION DETECTION METHODS IN GEM..I LAUNCH VEHICLE DURING FLIGHT
LV-307A N64-31676 23-10

TRANSONIC BUFFET WIND TUNNEL INVESTIGATION ON SCALE MODEL OF FORWARD PORTION OF GEMINI LAUNCH VEHICLE
LV-279-II N64-31835 23-33

PREDICTION OF GEMINI LAUNC: VEHICLE TRANSONIC BUFFET LOADING MOMENTS BY WIND TUNNEL TESTS
LV-280 N64-31836 23-33

SLOW MALFUNCTION ERROR ANALYSIS OF TRAJECTORY FOR GEMINI LAUNCH VEHICLE
LV-306 N64-31837 23-10

SLOW MALFUNCTION MONITORING OF GEMINI LAUNCH VEHICLE
LV-307 N64-31838 23-10

ENGINEERING EVALUATION TESTS OF GEMINI LAUNCH VEHICLE INTERIM PREVALVES
LV-330 N64-31839 23-17

MINIMUM FUEL AND OXIDIZER TANK ULLAGES FOR GEMINI LAUNCH VEHICLE
REPT.-0788-MU-1 N64-31887 23-27

APOLLO AND GEMINI MISSION SIMULATION AND ANALYSIS PLANS N64-32351 23-10

GEMINI SPACECRAFT
GEMINI LAUNCH VEHICLE PILOT SAFETY PROGRAM
TOR-169/3126/-10 N64-18040 10-30

DYNAMIC RESPONSE OF GEMINI AND AGENA D SPACECRAFT MODELS - DOCKING TESTS N64-20248 13-30

BEHAVIOR OF GEMINI SPACECRAFT IN VERTICAL DESCENT AT LOW SUBSONIC SPEEDS - CORRECTIVE EFFECT OF DROGUE PARACHUTE
NASA-TN-D-2191 N64-20282 13-01

GEMINI SPACECRAFT REENTRY GUIDANCE SYSTEM SIMULATION
NASA-CR-56127 N64-20707 13-30

GEMINI-AGENA DOCKING USING FIXED AND MOVING-BASE SIMULATORS
AIAA PAPER-64-334 N64-21352 14-31

SIMULATION OF ORBITAL MOORING OF GEMINI SPACECRAFT AND AGENA ROCKET WITH DYNAMIC MODELS
N64-29263 21-31

CAPTIVE DYNAMIC-STABILITY TESTS OF GEMINI ABORT SEAT CONFIGURATION MODEL IN SUPERSONIC WIND TUNNEL
NASA-CR-59057 N64-33216 24-10

GEMINI AND AGENA TELEMETRY FORMATS AND NETWORK STATION SYSTEMS FOR MANNED SPACE FLIGHT NETWORK
NASA TM-X-55099 N64-33567 24-01

GENERAL DYNAMICS MILITARY AIRCRAFT
S B-58 AIRCRAFT

GENERATION
S INITIATION
EXCITATION OF NONLINEAR CURRENTS AND GENERATION O HARMONIC WAVES IN ISOTROPIC PLASMA
AF-249815 N64-26247 18-20

OPTICAL SECOND HARMONIC GENERATION IN SEMICONDUCTOR ALLOYS
TR-0556-8 N64-28790 20-31

GALLIUM ARSENIDE EPITAXIAL VARACTOR DIODES FOR HARMONIC GENERATION AND FORWARD BIAS SHOT NOISE
REPT.-16 N64-29636 21-01

GENERATOR
SA COMMUTATOR
SA HALL GENERATOR
SA MAGNETOHYDRODYNAMIC GENERATOR
SA PLASMA GENERATOR
SA POWER GENERATOR
SA SIGNAL GENERATOR
SA SOLAR GENERATOR
SA STATOR
INDIAN OCEAN AREA CRUSTAL STRUCTURE STUDY USING SEISMO-ACOUSTIC RADIOBUOYS
JPRS-18425 N64-10764 02-

GENERATION OF ELECTRICITY BY PLASMA FLOWING IN A TUBE N64-11713 03-

BRUSHLESS ROTATING ELECTRICAL GENERATORS FOR SPA AUXILIARY POWER SYSTEMS

NASA-CR-52915 N64-11741 03-06

BRUSHLESS ROTATING ELECTRICAL GENERATORS FOR SPACE AUXILIARY POWER SYSTEMS - MAGNETIC STEEL
NASA-CR-52916 N64-11742 03-18

HYDROGEN-OXYGEN FUELED AUXILIARY ELECTRIC POWER GENERATING SYSTEM FOR USE IN SPACE VEHICLES
NASA-CR-55060 N64-11819 03-06

SURVIVAL OF MODEL GENERATOR UNDER SUSTAINED TEST IN VACUUM WITHOUT DEGRADATION OF POWER OUTPUT
ASD-TDR-62-896, PT. 2 N64-12224 03-06

CAPACITANCE DIRECT CURRENT GENERATOR
FTD-TT-61-540/1 N64-12668 04-06

MODEL FOR DIFFUSIVE MAGNETOTHERMOELECTRIC GENERATOR
AD-421931 N64-12974 04-15

PROPERTIES OF ALTERNATING CURRENT MOTORS
N64-13587 05-06

USE OF HIGH TEMPERATURE THERMOELECTRIC GENERATORS POWERED WITH NUCLEAR AND SOLAR HEAT SOURCES IN AEROSPACE VEHICLES
QPR-1 N64-14302 06-06

PORTABLE TIME CODE GENERATOR FOR SLED OPERATION
AD-429069 N64-14838 06-15

O-TYPE BACKWARD-WAVE OSCILLATOR FOR GENERATING VERY HIGH POWER AT PEAK OF 100-KILOWATTS AND AVERAGE OF 1000-WATTS AT 100 GRAM-CALORIE
W-J 63-435R3S N64-15061 07-09

POWER FLATTENING STUDY - EXPONENTIAL DECAY OF RADIOISOTOPIC HEAT SOURCE OF THERMOELECTRIC GENERATOR
NYO-9783 N64-15332 07-06

STEADY-STATE REGIMES OF SYNCHRONOUS GENERATOR WITH SELF-EXCITATION
FTD-TT-62-1043/1&2&4 N64-16057 07-09

TYPES OF APERIODIC FUNCTION GENERATORS
N64-16241 08-15

SHOCK TUBE USED AS STEP FUNCTION GENERATOR
N64-16242 08-10

TYPES OF PERIODIC FUNCTION GENERATORS
N64-16243 08-15

THEORY OF MAGNETOGASDYNAMIC GENERATOR
FTD-TT-62-1181/1&2&4 N64-16392 08-24

TEST DURATION MEASUREMENTS IN ARC DRIVEN HYPER-VELOCITY SHOCK TUBE
REPT.-1573-2 N64-16440 08-24

THERMOELECTRIC GENERATOR WHICH USES LEAD GASOLINE FUEL N64-17385 09-06

45 WATT THERMIONIC GENERATOR HEATED BY LEADED GASOLINE AND AIR COMBUSTION N64-17387 09-06

HYDROGEN GENERATOR FOR HYDROGEN-OXYGEN FUEL CELL
N64-17397 09-06

DESIGN CALCULATION PROCEDURE AND FORTRAN COMPUTER PROGRAM FOR SYNCHRONOUS, WOUND-POLE, SALIENT-POLE GENERATORS
NASA-CR-53221 N64-17603 09-06

ROTATION OF REACTOR CONTROL DRUMS IN LITHIUM COOLED REACTOR EXPERIMENT PRODUCED BY HARMONIC DRIVE
PWAC-412 N64-17718 09-17

PERFORMANCE AND ENDURANCE TESTING OF SUNFLOWER TURBOALTERNATOR COMBINED SHAFT UNIT
NASA-CR-53528 N64-18213 10-06

RADIOISOTOPE GENERATORS IN SYSTEMS FOR NUCLEAR AUXILIARY POWER - SNAP
TID-20079 N64-18414 10-06

CHARGE TRANSFER IN ELECTROSTATIC GENERATORS WITH DIELECTRIC TRANSFER MEDIA
FTD-TT-63-247/1&2&3&4 N64-19182 11-23

HIGH EFFICIENCY THERMOELECTRIC GENERATORS USING LOW COST HYDROCARBON FUELS N64-19379 12-06

LIQUID POTASSIUM JOURNAL BEARING TEST PROGRAM FOR SPUR TURBOGENERATOR
APL-TDR-64-27 N64-19643 12-17

POSSIBILITY OF PRODUCING REACTOR CORES FOR LIQUID METAL LINEAR GENERATOR N64-19849 12-06

LARGE-SIGNAL BEHAVIOR OF PARAMETRIC MAGNETOGASDYNAMIC GENERATOR
RTD-TDR-63-4132 N64-20101 13-24

SOLID STATE V-BAND HARMONIC GENERATOR
A-103-004-5.0-56 N64-21399 14-09

FEASIBILITY OF COMBINING SOLAR ENERGY, THERMAL STORAGE, AND THERMOELECTRIC GENERATOR AS POWER SUPPLY FOR SPACE APPLICATION
RTD-TDR-63-4248 N64-21568 15-06

NUCLEAR REACTOR POWERED THERMOELECTRONIC GENERATOR
FTD-TT-62-1824/1 N64-22639 15-06

FILTER INSERTION LOSS AS FUNCTION OF GENERATOR LOAD AND FILTER IMPEDANCES N64-22833 16-09

FUNCTIONAL GENERATORS WITH CATHODE RAY TUBE
N64-23083 16-08

ELECTROSTATIC GENERATOR THEORY
FTD-TT-63-246/1&2&3&4 N64-23424 16-09

ANALYTICAL SOLUTION OF MAGNETIC FIELD IN GAP OF INDUCTOR GENERATOR CONSIDERING ELECTROMOTIVE FORCE N64-23578 16-09

MOLECULAR GENERATOR WITH TWO SERIES CAVITIES USING AMMONIA N64-23809 16-25

TRANSISTORIZED VARIABLE DELAY GENERATOR
NRL-MR-1503 N64-24086 16-06

THERMOELECTRIC GENERATOR-HEATER DESIGN
AD-438410 N64-25277 17-13

OPERATIONAL PRINCIPLES AND CHARACTERISTICS OF SONIC OSCILLATOR - PNEUMATIC CLOCK PULSE GENERATOR
N64-25303 17-09

LOW TEMPERATURE CYLINDRICAL THERMIONIC GENERATOR DEVELOPMENT
QTR-1 N64-25373 17-06

ELECTROSTATIC POWER GENERATOR
QTPR-2 N64-26747 18-09

ENERGY GENERATION OR LONG DURATION STORAGE BY FLYWHEEL GENERATOR N64-27115 19-06

100,000-KW GAS TURBINE GENERATOR
N64-27117 19-06

SOLID STATE PHYSICS - MOTOR GENERATORS AND HIGH MAGNETIC FIELDS N64-27118 19-06

THIN FILM INTEGRATED CIRCUIT STAIRCASE GENERATORS
NASA-CR-56795 N64-27270 19-09

DEVELOPMENT OF IMPULSE GENERATOR STANDARDS FOR SPECTRAL INTENSITY MEASUREMENTS
N64-27660 19-08

AIRCRAFT ELECTRIC EQUIPMENT, MOTORS, AND GENERATORS - TEXTBOOK
FTD-TT-63-209/1&2 N64-28287 20-06

PROTOTYPE ALTERNATORS FOR SYSTEM FOR NUCLEAR AUXILIARY POWER /SNAP-8/ ELECTRIC GENERATOR SYSTEM
ER-5301 N64-28291 20-06

GENERATION OF RADIO FREQUENCY POWER OUTPUTS IN CADMIUM SULFIDE CRYSTALS WITHOUT USE OF

TRANSDUCERS
RADC-TDR-64-246 N64-28542 20-09

FREQUENCY STABILITY AND BANDWIDTH AND POWER CAPACITY IMPROVEMENTS FOR SOLID STATE GENERATOR
QPR-4 N64-29100 21-09

SINGLE CIRCUIT PARAMETRIC GENERATOR TO RECORD NUCLEAR MAGNETIC RESONANCE N64-29135 21-15

CIRCUIT SENSITIVITY FOR DIRECT DETECTION OF AMPLITUDE FLUCTUATION OF MICROWAVE GENERATORS N64-29468 21-09

PARAMETERS FOR TRANSISTOR GENERATOR N64-29473 21-09

APPLICATION OF LARGE SIGNAL NONLINEAR MICROWAVE EFFECTS IN FERROELECTRIC MATERIALS TO MICROWAVE POWER LIMITERS, PARAMETRIC AMPLIFIERS, AND HARMONIC GENERATORS
QR-3 N64-29653 21-25

PINCH EFFECT GENERATOR AND PULSE FORMING CIRCUIT
NASA-CR-58567 N64-29689 21-24

SPECTROSCOPIC TEMPERATURE MEASUREMENTS IN SMALL REGIONS OF TURBULENT ARC PLASMA GENERATOR
ML-TDR-64-243 N64-30164 21-24

INTENSE NEUTRON GENERATOR CAPABLE OF GENERATING HIGH THERMAL FLUX BASED ON PROTON ACCELERATOR
AECL-2059 N64-30460 22-10

SUPERCONDUCTING ROTATING ELECTRICAL GENERATORS IN LARGE SPACE POWER PLANTS
APL-TDR-64-71 N64-30815 22-25

THREE-PHASE SYNCHRONOUS GENERATOR WITH MAGNETIC FLUX THROWOVER AS SOURCE OF HIGH FREQUENCY ELECTRIC ENERGY
FTD-TT-64-486/1&2 N64-30878 22-06

ALTERNATING CURRENT CHARACTERISTICS OF AEROSPACE STATIC INVERTER AND CONVERTER CAPACITORS
NASA-CR-54185 N64-31013 22-09

ONE MEGAWATT TURBONUCLEAR SPACE POWER SYSTEM FOR ELECTRIC PROPULSION N64-31610 23-06

THERMAL TEST MODEL AND REFRIGERATION SYSTEM FOR SUPERCONDUCTING ROTATING ELECTRIC GENERATOR
REPT.-428 N64-31709 23-06

PORTABLE NEUTRON GENERATORS IN NUCLEAR GEOPHYSICS - RADIATION DETECTOR, INELASTIC NEUTRON SCATTERING, NUCLEAR RADIATION, AND THERMAL NEUTRONS
FTD-MT-63-283 N64-31776 23-12

APPLICATION OF NEUTRON GENERATORS IN NUCLEAR GEOPHYSICS - GEOLOGICAL EXPLORATION N64-31777 23-12

NEUTRON GENERATORS - APPLICATIONS IN SCIENCE AND TECHNOLOGY N64-31778 23-23

NEUTRON PULSE GENERATOR FOR GEOLOGICAL EXPLORATION N64-31779 23-12

TUBES FOR ELECTRIC CORE SAMPLING OF PETROLEUM WELLS N64-31781 23-12

SEALED-OFF TUBES OF DIFFERENT ION SOURCES AND PLASMA & HIGH VOLTAGE ACCELERATING TUBES AS NEUTRON GENERATORS N64-31782 23-23

NEUTRON GENERATOR APPLICATIONS - NUCLEAR PHYSICS AND CHEMISTRY, CHEMICAL ENGINEERING, BIOLOGY, AND RADIATION MEDICINE N64-31788 23-23

NEUTRON GENERATOR APPLICATIONS - ROCK DENSITY READINGS, INSTRUMENT DEVELOPMENT, RADIATION DETECTORS, AND NUCLEAR LOGGING N64-31792 23-12

SPACE-TIME DISTRIBUTION OF THERMAL NEUTRONS IN MODEL SAND LAYERS N64-31793 23-12

APPLICATION OF PULSE NEUTRON GENERATOR TO DETERMINE WATER-OIL CONTACT - DENSITY OF THERMAL NEUTRONS N64-31794 23-12

GENERATOR FOR DIRECT CONVERSION OF ALPHA PARTICLE ENERGY TO ELECTRICITY
NASA-CR-54162 N64-32021 23-06

THERMIONIC GENERATOR DEVELOPING POTENTIAL VOLTAGE FROM LIQUID METAL HEAT SOURCE
QTR-7 N64-32605 23-06

MEASURING DEVICE FOR AUTOMATION AND MECHANIZATION OF CONTROL, AND TIME INTERVAL-NUMBER FUNCTION GENERATOR
JPRS-27005 N64-33150 24-09

FUNCTION GENERATORS FOR CATHODE RAY TUBE
FTD-TT-64-379/1&2 N64-33521 24-09

OPTICAL SECOND-HARMONIC GENERATION IN ZINC SULFIDE-CADMIUM SULFIDE AND CADMIUM SULFIDE-CADMIUM SELENIDE ALLOYS
ML-1231 N64-33695 24-25

GENETICS
SA CHROMOSOME
SA MUTATION
EFFECT OF IONIZING RADIATION ON HEREDITARY MOLECULAR STRUCTURES - BIBLIOGRAPHY
JPRS-21754 N64-10121 01-16

RESEARCH IN RADIOBIOLOGY, GENETICS, RADIATION MEDICINE, AND BIOPHYSICS
JPRS-21868 N64-10328 01-16

MICROBIOLOGICAL AND CYTOLOGICAL INVESTIGATIONS OF CONDITIONS IN OUTER SPACE, & GENETIC EFFECTS OF SPACE FLIGHT N64-11670 03-16

SPACE FLIGHT EFFECT ON INCIDENCE OF LETHAL GENETIC MUTATION OF DROSOPHILA MELANOGASTER INSECTS N64-11680 03-16

CHEMICAL ANALYSIS AND COMPOSITION OF MITOCHROME AND CYTOCHROME OXIDASE FROM RAT LIVER MITOCHONDRIA
NADC-MA-6319 N64-12255 03-16

CHROMOSOME REARRANGEMENT IN MICROSPORES UNDER INFLUENCE OF SPACE FLIGHT CONDITIONS
JPRS-22585 N64-12393 03-16

RADIATION AND CHEMICAL GENETIC EFFECTS
JPRS-22581 N64-12701 04-16

GENETICS AND STUDY OF HEREDITY - DNA MOLECULE N64-12765 04-16

GENETIC MUTATION OF MOUSE SPERM BY FAST NEUTRONS N64-12794 04-16

MUTAGENIC AND ANTIMUTAGENIC ACTION OF VARYING CONCENTRATIONS OF SODIUM GALLATE ON GERMINATING SEEDS OF RUSSIAN BLACK HORSE BEANS, VICIA FABA
JPRS-23787 N64-17805 09-16

GENETIC TRANSFER AND MACROMOLECULE FINDINGS FOR TAXONOMY OF BACTERIA N64-18056 10-16

LIMIT OF GENETIC CONTROL OF BRAIN STRUCTURE N64-18834 11-16

FUNDAMENTAL PROBLEM IN GENETICS EXPRESSED AND SOLVED IN TERMS OF INCIDENCE MATRICES
RM-3994-PR N64-21853 15-21

GENETIC STUDIES IN SPACE ENVIRONMENTS
NASA-CR-55359 N64-22767 16-16

MAPPING OF GENETIC SITES ON CHROMOSOMES OF YEAST BY X-RAY IRRADIATION AND INDUCED MUTATION N64-22852 16-16

BIOCHEMISTRY - GENETIC MARKING OF PROPHAGES IN BACILLUS SUBTILIS N64-23278 16-16

GENETIC RECOMBINATION BETWEEN RESISTANCE TRANSFER FACTOR AND CHROMOSOME OF ESCHERICHIA COLI
NASA-RP-296 N64-28231 20-16

HUMAN BIOCHEMICAL GENETICS
JPRS-26577 N64-32163 23-16

GENETIC INSTABILITY IN BACTERIA AND PRESENCE OF CONTROLLING EPISOMES
QTSR-1 N64-32514 23-16

ABSTRACTS ON INVERTEBRATE AND VERTEBRATE BEHAVIOR, PHYSIOLOGY, ENDOCRINOLOGY, GENETICS, EMBRYOLOGY, EVOLUTION, AND CELL BIOLOGY
NASA-CR-59307 N64-33513 24-16

GEOCENTRIC COORDINATE
CURRENT VALUES AND INTERRELATIONSHIPS OF ASTRODYNAMIC CONSTANTS - HELIOCENTRIC, GEOCENTRIC, SELENOCENTRIC, AND PLANETOCENTRIC VALUES
AFCRL-63-705 N64-15813 07-29

GEOCENTRIC POSITION AND/OR ORBITAL PARAMETERS WITH STAR-SATELLITE PHOTOGRAPHY FROM SINGLE CAMERA STATION
CR-102-1 N64-18270 10-29

GEOCENTRIC COORDINATES OF SATELLITES FROM OPTICAL OBSERVATIONS N64-19088 11-08

TOPOGRAPHY - GEOCENTRIC LATITUDE OF SPACE POINT
JPRS-25771 N64-26606 18-12

EQUATIONS FOR CONVERTING TO GEOCENTRIC COORDINATES FROM GEODETIC COORDINATES
TG-511 N64-31173 22-12

GEOCHEMISTRY
CF GEOLOGY
CF GEOPHYSICS
BIOGEOCHEMISTRY OF SULFUR IN LITHOSPHERE AND BIOGENIC OXIDATION OF HYDROGEN SULFIDE TO SULFUR & SULFATES
JPRS-22672 N64-13007 04-16

INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS OF METEORITIC AND TERRESTRIAL SPECIMENS AND SEPARATE CHONDRULES TO CHART ABUNDANCES OF SEVEN ELEMENTS
NASA-CR-53779 N64-19601 12-05

GEOCHEMICAL ECOLOGY OF INTERRELATIONSHIPS OF LIVING ORGANISMS WITH ENVIRONMENTAL FACTORS
JPRS-24978 N64-21481 14-16

GEOCHEMISTRY - STUDY OF ORIGIN & DISPERSION OF CHEMICAL ELEMENTS THROUGH EARTH CRUST
FTD-TT-62-1314/1&4 N64-21919 15-12

APPLICATION OF ISOTOPE CHEMISTRY TO INTERMOLECULAR FORCE, GEOCHEMICAL, AND LIFE SCIENCE STUDIES
BNL-870/T-349/ N64-28700 20-07

TRITIUM RETENTION IN IRON METEORITES - GEOCHEMISTRY N64-33155 24-12

GEODESY
SA GEODETIC SURVEYING
CF TOPOGRAPHY
IMPROVED GEODETIC RESULTS FROM CAMERA OBSERVATIONS OF SATELLITES
NASA-RP-62 N64-10356 01-12

GRAPHIC METHOD OF CALCULATING AND PLOTTING HYPERBOLIC NET FOR RADIOGEODETIC OPERATIONS
JPRS-17874 N64-10490 01-12

DETERMINATION OF EARTH REFERENCE ELLIPSOID AND GEODETIC DATA BASED ON SATELLITE OBSERVATION
JPRS-18002 N64-10731 02-12

GEODESY AND CARTOGRAPHY IN HUNGARY
JPRS-19587 N64-11128 02-12

PLANS AND SERVICES OF HYDROMETEOROLOGICAL, GEOPHYSICAL, & GEODETIC ORGANIZATIONS
JPRS-22378 N64-12007 03-21

MULTIPLE BEAM CAPABILITY OF GEODESIC LENS ANTENNA WITH LUNEBERG LENS N64-12258 03-08

RADIO ENGINEERING FOR GEODETIC & GEOGRAPHIC WORK BEYOND ARCTIC CIRCLE N64-12746 04-08

GEODESY, GEODETIC ASTRONOMY, & GRAVIMETRY N64-14200 06-12

DETERMINATION OF EARTH GRAVITATIONAL FIELD AND ANOMALIES BY GRAVIMETRY, SATELLITE ORBIT PERTURBATIONS, & ASTROGEODESY
NASA-RP-132 N64-15667 07-12

NOMENCLATURE AND FORMS OF EARTH GRAVITY POTENTIAL
TDR-269/4550-10/-5 N64-16875 08-12

USE OF EOTVOS TORSION BALANCE FOR REDUCTION OF GEODETIC SURFACE DIFFERENCES
AFCRL-64-131 N64-20176 13-15

APPLICATION OF FINITE DIFFERENCE METHOD TO NONLINEAR BOUNDARY VALUE PROBLEMS IN MINIMAL SURFACES, GEODESICS, AND SUBSONIC FLOWS
NRC-466 N64-20340 13-20

FEED SYSTEM FOR CIRCULAR SYMMETRIC GEODESIC MICROWAVE LENS ANTENNAS
REPT.-1394-12 N64-20357 13-09

GEOPOTENTIAL FUNCTION OF EARTH GRAVITY FIELD AS GEODETIC REFERENCE SURFACE
NASA-CR-56078 N64-20640 13-12

LINEAR INTERPOLATION ERRORS OF ASTRONOMICAL-GEODETICAL DEFLECTIONS
JPRS-24666 N64-22726 16-12

TRIAXIALITY OF EARTH FROM OBSERVATIONS ON DRIFT OF SYNCOM II SATELLITE - LONGITUDINAL DEPENDENCE OF EARTH GRAVITATIONAL FIELD
NASA-TM-X-55003 N64-23935 16-08

EFFECT OF GEOPHYSICAL AND GEODETIC UNCERTAINTIES AT LAUNCH AREA ON BALLISTIC MISSILE IMPACT ACCURACY
BSD-TDR-63-256, REISSUE A N64-25244 17-29

OPTICAL DISTANCE FINDER FOR GEODETIC STUDIES USING PULSE RADAR
FTD-TT-64-182/1&2&4 N64-26094 18-17

SPACE SCIENCE CONTRIBUTIONS IN ASTROPHYSICS, GEODESY, GEOLOGY, METEOROLOGY, AND ASTRONOMY N64-30339 22-29

SATELLITE NAVIGATION SYSTEM - GEODESY PROGRAM N64-30340 22-32

SIMULTANEOUS TRACKING OF ECHO I SATELLITE FOR GEODETIC PURPOSES - CELESTIAL TRIANGULATION
NASA-TT-F-8954 N64-30847 22-08

PHYSICAL GEODESY - GRAVITY MEASUREMENTS AND MATERIALS, GRAVIMETRIC AND ASTRONOMIC MEASUREMENT, ASTROGEODETIC METHODS, GEOPOTENTIALS, AND EARTH CONSTANTS
AFCRL-64-566/II/ N64-30944 22-12

GEODETIC APPLICATIONS OF SATELLITES
AFCRL-64-566/IV/ N64-30946 22-12

EQUATIONS FOR CONVERTING TO GEOCENTRIC COORDINATES FROM GEODETIC COORDINATES
TG-511 N64-31173 22-12

GENERAL WORLD GEODETIC SYSTEM
FTR-1 N64-31266 22-12

ESTIMATION OF MEAN GRAVITY ANOMALIES FROM ISOSTATIC-TOPOGRAPHIC FEATURES AND LOWER DEGREE HARMONICS OF GRAVITY ANOMALY FIELD
AFCRL-64-574 N64-31990 23-12

STAR BACKGROUND TO REDUCE POSITION ERROR IN PHOTOGRAPHIC GEODETIC OBSERVATIONS N64-32385 23-12

BEACON EXPLORER SATELLITE FOR IONOSPHERIC STUDY AND EVALUATION OF LASER TECHNIQUE FOR DERIVING ORBITAL AND GEODETIC INFORMATION N64-32948 24-32

MOSSBAUER EFFECT FOR PRECISE MEASUREMENT IN SOLID STATE & ATOMIC PHYSICS, MECHANICS, GEODESY, AND

OPTICS
I-A2217-6 N64-33722 24-25

GEODETIC POSITION
GEODETIC APPLICATIONS OF SATELLITE TRACKING
N64-15280 07-12

SHORT ARC CALIBRATION OF DOPPLER RADAR SATELLITE OBSERVATIONS TO OBTAIN GROUND STATION GEODETIC COORDINATES
NWL-1908 N64-18889 11-12

GEODETIC SATELLITE
PHYSICAL AND SATELLITE GEODESY APPLICATIONS TO CELESTIAL MECHANICS AND ORBIT PREDICTION
AFCRL-64-566(I) N64-30943 22-12

LONG LINE GEODETIC AZIMUTHS FROM OPTICAL OBSERVATIONS OF ANNA FLASHING SATELLITE
AFCRL-64-446 N64-32108 23-32

GEODETIC SURVEYING
TRIANGULATION IN GEODETIC SURVEYING OF HUNGARY
JPRS-21748 N64-10120 01-12

SIDE COMPUTATION IN ELECTRONIC TRILATERATION BY CIRCULAR GEODETIC SURVEY
JPRS-17943 N64-10492 01-08

ASTROGRAVIMETRIC LEVELING OF GEODETIC POINTS IN BOHEMIA AND MORAVIA
JPRS-18266 N64-10500 01-12

ORGANIZATION OF TOPOGRAPHIC-GEODETIC SURVEYS
JPRS-19739 N64-10659 01-12

INTERPOLATION ERROR OF ASTRONOMIC-GEODETIC PLUMBLINE DEFLECTIONS BETWEEN OBSERVATION STATIONS IN WEST BOHEMIA
JPRS-22538 N64-12069 03-12

METEROLOGICAL OBSERVATIONS AT SEA, MAGNETIC OBSERVATIONS IN THE PACIFIC OCEAN, AND MARINE GEODETIC SURVEYING
JPRS-21410 N64-12141 03-21

GEODETIC TRIANGULATION SURVEY IN JAPAN
N64-14161 05-12

TRIANGULATION, GEODETIC LEVELING & ASTRONOMY, AND GRAVIMETRY IN GREAT BRITAIN N64-14460 06-12

EARTH MEASUREMENT - HISTORY, TRIANGULATION, LEVEL GAUGE, ASTRONOMIC-GEODETIC SURVEYING, DETERMINING GEOID, AND GRAVIMETRY N64-16201 08-12

TELLUROMETRIC MEASUREMENTS FOR GEODETIC REFERENCE SYSTEM, AT HEPPEN AND GOETTINGEN, WEST GERMANY
N64-16207 08-15

COMPUTER PROGRAM FOR TRANSFORMATION OF COORDINATES FROM GEODETIC SURVEYING N64-16208 08-20

BALLISTIC CAMERA TECHNIQUE OF PHOTOGRAMMETRIC TRIANGULATION AS GEODETIC TOOL N64-29107 21-08

GEODETIC POSITIONING FROM SIMULTANEOUS OPTICAL OBSERVATIONS OF ANNA I-B GEODETIC SATELLITE
AFCRL-64-562 N64-29994 21-12

REFINING GEODETIC TECHNIQUES USING TERRESTRIAL AND SPATIAL CONFIGURATIONS - PHOTOELECTRIC OBSERVATIONS OF SOLAR ECLIPSE
AFCRL-64-699 N64-31823 23-12

GEOGRAPHY
AERIAL RECONNAISSANCE & PHOTOINTERPRETATION OF MAN MADE AND NATURAL LANDSCAPE CONFIGURATIONS
JPRS-17771 N64-10632 01-12

MATHEMATICAL PHYSICS, CHEMISTRY, GEOLOGY, BIOLOGY, AND TECHNOLOGY
JPRS-19569 N64-11073 02-01

TERRAIN ANALYSIS AND GEOGRAPHIC STUDY BY AERIAL PHOTOGRAPHS
JPRS-19424 N64-11350 02-12

RADIO ENGINEERING FOR GEODETIC & GEOGRAPHIC WORK BEYOND ARCTIC CIRCLE N64-12746 04-08

GEOGRAPHIC ORIENTATION & DISORIENTATION OF AIRCRAFT PILOTS
TR-751-1 N64-13608 05-14

SELECTION OF GEOGRAPHICAL REFERENCE GRID FOR USE WITH NIMBUS CLOUD PICTURES
NASA-TN-D-2136 N64-15846 07-21

ATMOSPHERIC NOISE AT VERY LOW FREQUENCIES FOR VARIOUS GEOGRAPHIC LOCATIONS
AD-428273 N64-19976 12-12

GEOGRAPHIC-GEOPHYSICAL METHODS OF STUDYING ORIGIN AND STRUCTURE OF MOON N64-22035 15-29

GEOGRAPHIC DISTRIBUTION OF ATMOSPHERIC OZONE
N64-24479 17-21

GEOGRAPHICAL DISTRIBUTION OF SATELLITE SCINTILLATION ACTIVITY ABOVE NORTHERN SCANDINAVIA
AFCRL-64-268 N64-25082 17-12

METHODOLOGY AND ELECTRONIC INSTRUMENTATION FOR ANALYSIS OF GEOGRAPHIC PHENOMENA
AD-601222 N64-27641 19-12

MAPPING OF GEOGRAPHICAL DISTRIBUTION OF VEGETATION
JPRS-25347 N64-28007 20-16

GEOGRAPHIC LOCATION OF PARTICLE INTENSITY MAXIMA IN OUTER RADIATION BELT AT LOW ALTITUDES
N64-29087 21-28

GEOGRAPHICAL & CLIMATIC FACTORS IN RIVER REGIMES IN USSR - ATMOSPHERIC WATER VAPOR AND CONDENSATION, EVAPORATION, TEMPERATURE OF RIVER WATER, AND ICE FORMATION
JPRS-26519 N64-31079 22-12

GEOGRAPHICAL ORIENTATION, OPERATIONAL PROBLEMS, HUMAN PERFORMANCE DURING VIBRATION, AND PHYSICAL AND GEOMETRIC PARAMETERS AFFECTING VISIBILITY IN LOW ALTITUDE HIGH SPEED FLIGHT
ACR-95 N64-31508 23-14

GEOGRAPHICAL ORIENTATION DURING LOW ALTITUDE FLIGHT N64-31509 23-14

GEOLOGY
SA GEOCHEMISTRY
SA GEOPHYSICS
SA GLACIOLOGY
SA LUNAR GEOLOGY
SA OROGRAPHY
AERIAL RADIOLOGICAL MEASURING SURVEY OF LAS VEGAS AREA FOR GAMMA RADIATION LEVEL - RADIOACTIVITY DISTRIBUTION & GEOLOGICAL CORRELATION
CEX-61.6.1 N64-10129 01-23

GEOLOGY & ASTRONOMY - GEOMAGNETIC STORMS, COSMIC RADIATION, CLIMATOLOGY, STRATOSPHERIC, AND IONOSPHERIC STUDIES
JPRS-21593 N64-10199 01-01

SOVIET RESEARCH IN ATMOSPHERICS AND GEOLOGY
JPRS-21828 N64-10281 01-12

MAGNETIC VARIATIONS IN RUSSIAN ARCTIC AND REGIONAL GEOLOGY OF UST-YENISEY DEPRESSION
JPRS-21348 N64-10296 01-12

RADIOLOGICAL SURVEY CORRELATING GAMMA RADIATION LEVEL WITH GEOLOGY
CEX-6164 N64-10407 01-16

ANNOTATED BIBLIOGRAPHY ON GEOLOGICAL SCIENCES AND GEOPHYSICS N64-10414 01-12

GEOLOGICAL SCIENCES IN USSR
JPRS-17983 N64-10493 01-12

MATHEMATICAL PHYSICS, CHEMISTRY, GEOLOGY, BIOLOGY, AND TECHNOLOGY
JPRS-19569 N64-11073 02-01

THREE-DIMENSIONAL COLOR AERIAL PHOTOGRAPHY FOR TOPOGRAPHICAL AND GEOLOGICAL USE

JPRS-22032 N64-11266 02-12

GEOPHYSICS & GEOLOGICAL SURVEYS
JPRS-18819 N64-11484 03-01

GEOMAGNETIC FIELD MEASUREMENT BY PROTON RESONANCE METHOD - GEOLOGICAL SURVEY N64-11485 03-12

MAGNETOTELLURIC PROFILING OF UPPER LAYERS OF EARTHS CRUST IN POLISH-LITHUANIAN DEPRESSION - GEOLOGICAL SURVEY N64-11486 03-12

MAGNETOTELLURIC SOUNDING CURVE CONSTRUCTION FROM SHORT-PERIOD GEOMAGNETIC FIELD VARIATIONS - GEOLOGICAL SURVEY N64-11487 03-12

CALCULATION OF LOW FREQUENCY DIPOLE FIELD IN FAR ZONE ABOVE THREE-LAYER SECTION OF EARTH CRUST - GEOLOGICAL SURVEY N64-11488 03-23

LOW-FREQUENCY FIELD THEORY EXTENSION TO FAR ZONE BY COMPLEX FUNCTIONS - GEOLOGICAL SURVEY N64-11489 03-23

APPROXIMATE FORMULA FOR LOW-FREQUENCY DIPOLE FIELD CURVES OF HORIZONTAL LAMELLAR STRUCTURE ABOVE POORLY CONDUCTING BASE - GEOLOGICAL SURVEY N64-11490 03-23

DIRECTIONAL ELECTROMAGNETIC INDUCTION SOUNDING FOR HIGH CONDUCTIVITY STRUCTURES COVERED BY LOW CONDUCTIVITY ROCKS - GEOLOGICAL SURVEY N64-11491 03-12

INDUCTION AND DIPOLE ELECTROMAGNETIC METHODS FOR DETECTING COVERED, INCLINED CONDUCTING SHEETS - GEOLOGICAL SURVEY N64-11492 03-23

REPRESENTATION OF ALTERNATING-CURRENT PROSPECTING DATA AS APPARENT SPECIFIC RESISTANCE - GEOLOGICAL SURVEY N64-11493 03-23

LOW-FREQUENCY ALTERNATING CURRENT IN ELECTRICAL PROFILING - GEOLOGICAL SURVEY N64-11494 03-12

POTENTIAL DISTRIBUTION OF POINT SOURCE FIELD IN PRESENCE OF TWO INTERFACES BETWEEN THREE HORIZONTAL LAYERS - GEOLOGICAL SURVEY N64-11495 03-23

EFFECT OF AIR-GROUND BOUNDARY ON ELECTRICAL FIELD OF VERTICALLY POLARIZED, IDEALLY CONDUCTING, UNDERGROUND SPHERE - GEOLOGICAL SURVEY N64-11496 03-12

LOW FREQUENCY ELECTRICAL PROSPECTING - GEOLOGICAL SURVEY N64-11497 03-12

VERTICAL TORSION BALANCE FOR MEASURING GRAVITATION FIELD VERTICAL GRADIENT - GEOLOGICAL SURVEY N64-11498 03-23

SEISMIC OBSERVATION INTERPRETATION IN COMPLICATED VELOCITY DISTRIBUTION LOCATIONS - GEOLOGICAL SURVEY N64-11499 03-12

ELECTRICAL PROSPECTING IN HYDRAULIC CONSTRUCTION SURVEY OF PERENNIALLY FROZEN ROCK
JPRS-22701 N64-13087 04-12

ATMOSPHERE AND GEOLOGY OF MARS
JPRS-22878 N64-14146 05-29

PHYSICS & CHEMISTRY OF OCEAN, MARINE BIOLOGY & GEOLOGY, COASTAL OCEANOGRAPHY, AND OCEANOLOGICAL RESEARCH
JPRS-23025 N64-14524 06-12

SEISMIC OBSERVATION METHODS
JPRS-23134 N64-14538 06-12

VERTICAL MOVEMENTS OF EARTH CRUST AS INDICATED BY DATA ON EUROPEAN ISOSTATIC ANOMALIES
JPRS-23103 N64-14543 06-12

GEOPHYSICS IN GEOLOGICAL MAPPING - AEROMAGNETISM, RADIOMETRY, AND SURFACE CHECKING OF AERIAL SURVEY
JPRS-23073 N64-14610 06-12

GEOPHYSICS IN GEOLOGICAL MAPPING - AEROMAGNETISM, ELECTROMAGNETIC FIELDS, AND RADIOMETRY N64-14611 06-12

AEROMAGNETIC SURVEY FOR SOLUTION OF GEOLOGICAL EXPLORATION PROBLEMS
JPRS-23152 N64-14879 06-12

COMPUTER FOR ANALYZING OIL-BEARING STRATA - GEOLOGY
JPRS-23247 N64-14995 06-20

PLANETARY GEOLOGY, ESCAPE OF HELIUM FROM EARTH ATMOSPHERE, AND HYDROMAGNETIC WAVES IN SPACE
NASA-CR-55384 N64-15182 07-01

INTERNAL STRUCTURES OF MOON AND INNER PLANETS N64-15183 07-29

METHODS AND PRINCIPLES OF ELECTRICAL GEOLOGIC EXPLORATION
JPRS-23207 N64-15412 07-12

GEOLOGIC EXPLORATION BY DIRECT CURRENT RESISTIVITY AND CONDUCTIVITY MEASUREMENTS N64-15413 07-23

INFINITELY LONG CABLE AND INDUCTION METHODS OF AIRBORNE ELECTRICAL EXPLORATION - GEOLOGY N64-15414 07-12

USE OF RADIO WAVES IN ELECTRICAL GEOLOGIC EXPLORATION N64-15415 07-12

TYPES OF MINERALS FAVORABLE TO INDUCED POLARIZATION SURVEYS, AND THEIR ELECTRIC CONDUCTIVITY & POLARIZATION PROPERTIES N64-15416 07-12

RECENT MOVEMENTS OF EARTH CRUST N64-16452 08-12

GEOLOGICAL ACTIVITY OF ICE SHEET ON BEDROCK SURFACE OF ANTARCTICA N64-16455 08-12

CRIMEAN GEOPHYSICAL POLYGON FOR STUDYING ABYSSAL STRUCTURE OF EARTH CRUST AND RECENT TECTONIC MOVEMENTS N64-16458 08-12

RECENT TECTONIC MOVEMENTS OF EARTH CRUST N64-16459 08-12

MAGNETOMETER FOR GEOLOGIC STRUCTURE PROFILES N64-16518 08-15

MARINE GEOMORPHOLOGICAL RESEARCH USING PRECISION DEPTH RECORDER /LADOGA/
JPRS-24317 N64-18974 11-15

GEOPHYSICS & GEOLOGY - MAPPING & PROSPECTING FOR MAGNETIC MATERIALS
JPRS-24511 N64-20228 13-12

NOCTILUCENT CLOUDS IN UPPER ATMOSPHERE AND GEOLOGICAL DEVELOPMENT OF EARTH CRUST
JPRS-24970 N64-24557 17-12

MULTIPLE PHASE VADOSE - FLUID MECHANICS
JPRS-25562 N64-25625 17-11

MULTIPLE LINEAR DISCRIMINANT ANALYSIS OF GEOLOGICAL AND GEOGRAPHIC FUNCTIONS
TR-11 N64-25981 18-20

BIBLIOGRAPHY OF BIOLOGICAL, CHEMICAL, GEOLOGICAL MATHEMATICAL, PHYSICS, AND ENGINEERING ABSTRACTS N64-28140 20-10

SPACE SCIENCE CONTRIBUTIONS IN ASTROPHYSICS, GEODESY, GEOLOGY, METEOROLOGY, AND ASTRONOMY N64-30339 22-29

EFFECTS OF GEOLOGICAL AND REGIONAL FACTORS ON MAGNITUDE VALVES FOR SINGLE EARTHQUAKE
TR-64-1, PT. 1 N64-30389 22-12

CONFERENCE REPORTS ON USING RADIOACTIVE ISOTOPES AND NUCLEAR RADIATION IN MECHANICS, GEOLOGY AND CHEMISTRY
AEC-TR-6390 N64-31024 22-23

NEUTRON PULSE GENERATOR FOR GEOLOGICAL EXPLORATION
N64-31779 23-12

COSMIC RADIATION FOR STUDY OF GEOLOGICAL FORMATIONS AND ROCK DENSITY DETERMINATIONS
NASA-TT-F-8975 N64-33383 24-28

GEOMAGNETIC ANOMALY
PULSATING AURORAS AS SOURCE OF INFRASONIC WAVES ASSOCIATED WITH GEOMAGNETIC ACTIVITY
NASA-TM-X-54620 N64-17690 09-21

PITCH-ANGLE DISTRIBUTION OF PHOTOELECTRONS AND ORIGIN OF GEOMAGNETIC ANOMALY IN F- 2 LAYER
NASA-RP-213 N64-24065 16-12

GEOGRAPHICAL DISTRIBUTION OF RADIATION INTENSITY IN BRAZILIAN MAGNETIC ANOMALY AREA FROM COSMOS SATELLITE DATA N64-31533 23-12

TERRESTRIAL RADIATION BELT IN REGION OF BRAZILIAN MAGNETIC ANOMALY N64-31534 23-12

GEOMAGNETIC CROTCHET
S GEOMAGNETIC FIELD
S IONOSPHERIC CURRENT

GEOMAGNETIC EFFECT
GEOMAGNETIC CONTROL OF DIFFUSION IN UPPER ATMOSPHERE
NASA-TM-X-55046 N64-28071 20-12

COMPARISON OF GEOMAGNETIC EFFECTS OF NUCLEAR EXPLOSIONS AND TUNGUSK METEORITE EXPLOSION OF 1908
FTD-MT-64-266 N64-31884 23-12

GEOMAGNETIC FIELD
SA MAGNETOSPHERE
SOVIET RESEARCH PAPERS ON GEOMAGNETIC FIELD MAGNETOTELLURIC SOUNDING AND PROFILING, AND EARTH DISTORTION OF ELECTRIC FIELD
JPRS-21641 N64-10162 01-12

MEASUREMENT OF EARTH MAGNETIC FIELD COMPONENTS BY PROTON RESONANCE METHOD N64-10163 01-12

MAGNETOTELLURIC EXPLORATION AND PROFILING OF EARTH CRUST N64-10164 01-12

ASSUMPTIONS AND ERRORS OF MAGNETOTELLURIC SOUNDING THEORY - GEOMAGNETIC MEASUREMENT
N64-10165 01-12

CONDUCTIVITY & DEPTH OF NONCONDUCTING STRATUM FOR CYLINDRICAL MODEL OF EARTH, CALCULATED FROM GEOMAGNETIC VARIATION DATA N64-10280 01-12

EVALUATION OF GEOMAGNETIC FIELD EQUATIONS USING JENSEN-WHITAKER GAUSSIAN COEFFICIENTS FOR 1955 - COMPARISON WITH VANGUARD III OBSERVATIONS
NASA-TM-X-51072 N64-10298 01-12

AUTOMATIC MAPPING OF GEOMAGNETIC FIELD & ELECTRIC CURRENT FLOW IN IONOSPHERE
NASA-RP-68 N64-10360 01-12

ASYMPTOTIC DIRECTION OF APPROACH OF VERTICALLY INCIDENT COSMIC RAYS IN GEOMAGNETIC FIELD SIMULATION - COMPUTER CALCULATION
AECL-1824 N64-10377 01-28

SHOCK WAVE FORMATION ON INTERACTION BETWEEN SOLAR WIND & GEOMAGNETIC FIELD - EFFECT OF WEAK INTERPLANETARY MAGNETIC FIELD
NASA-RP-98 N64-11227 02-28

OUTER GEOMAGNETIC FIELD- INTERACTION WITH SOLAR PLASMA STREAMS MEASURED BY SPACE PROBES
IPPJ-12 N64-11252 02-12

GEOMAGNETIC FIELD MEASUREMENT BY PROTON RESONANCE METHOD - GEOLOGICAL SURVEY N64-11485 03-12

MAGNETOTELLURIC SOUNDING CURVE CONSTRUCTION FROM SHORT-PERIOD GEOMAGNETIC FIELD VARIATIONS - GEOLOGICAL SURVEY N64-11487 03-12

GEOPHYSICAL STUDY OF ELECTROMAGNETIC PROPAGATION, EARTH MAGNETISM, AND IONIZATION BY EARTH SATELLITE
JPRS-18010 N64-11617 03-12

ORIGIN OF EARTH MAGNETISM N64-11619 03-12

INCREASE OF IONIZATION IN PATH OF TRAVEL OF ARTIFICIAL SATELLITE THROUGH GEOMAGNETIC FIELD
N64-11620 03-12

VARIATIONS IN VERTICAL COMPONENT OF GEOMAGNETIC FIELD IN ARCTIC OCEAN N64-11661 03-12

GEOMAGNETIC FIELD MICROVARIATION MEASUREMENT USING PHOTOELECTRONIC AMPLIFICATION N64-11663 03-12

SECULAR VARIATIONS OF GEOMAGNETIC FIELD IN ANTARCTICA N64-11664 03-12

INDICES OF SOLAR & GEOMAGNETIC ACTIVITY, VARIATION OF EARTH MAGNETIC FIELD IN TIME & SPACE, & FIELD VARIATION IN MAGNETIC STORM N64-11725 03-28

MOMENTUM CONTROL OF ORBITING ASTRONOMICAL OBSERVATORY USING GEOMAGNETIC FIELD
IAC PAPER-32 N64-11892 03-22

ANALYSIS OF EXPLORER VI & PIONEER V DATA ON RADIATION BELTS & GEOMAGNETIC FIELD
NASA-CR-55104 N64-12159 03-32

GEOMAGNETIC VARIATIONS FROM VAN ALLEN BELT RING CURRENTS N64-12405 03-12

MOTION OF LOW RIGIDITY COSMIC RAYS IN DIPOLE FIELD - GEOMAGNETIC AND EXTERNAL FIELDS
N64-12696 04-28

ROTATION OF MAGNETOSPHERE N64-12955 04-12

MARINER II SOLAR-WIND VELOCITY DATA AND ITS CORRELATION WITH COSMIC-RAY VARIATIONS AND SOLAR & GEOMAGNETIC ACTIVITY
NASA-CR-53027 N64-13282 04-28

SOLAR QUIET-DAY DAILY VARIATIONS AT GEOMETRICALLY CONJUGATE AREAS OF GEOMAGNETIC FIELD
N64-14928 06-12

DETECTION OF UNDERWATER VEHICLES AND OTHER OBJECTS BY USE OF GEOMAGNETIC, ELECTRIC, AND ELECTRO-MAGNETIC FIELDS & SENSING DEVICES
JPRS-23491 N64-15927 07-12

CLOSE-IN ELECTROMAGNETIC FIELDS PRODUCED BY GEOMAGNETIC FIELD INTERACTION WITH ELECTRONS FROM NUCLEAR EXPLOSION
RM-3525-PR N64-16044 07-23

ANALYSIS OF GEOMAGNETIC FIELD FOR 1955 BY SPHERICAL HARMONICS N64-16284 08-12

NUMERICAL INTEGRATION METHOD FOR ANALYZING GEOMAGNETIC FIELD FOR 1955 USING POISSON INTEGRAL
N64-16285 08-12

PULSATIONS OF GEOMAGNETIC FIELD AND EARTH CURRENTS USED FOR GEOPHYSICAL EXPLORATION
N64-16520 08-12

FORTRAN COMPUTER PROGRAM FOR DETERMINING GEO-MAGNETIC FIELD
NASA-CR-53176 N64-17578 09-29

GRAPHIC SOLUTION TO GEOMAGNETIC ANOMALIES AND ELECTRON DENSITY PROBLEMS IN IONOSPHERE
NASA-TM-X-53003 N64-18164 10-12

LOCAL TIME DEPENDENCE OF NON-STORMER CUTOFF FOR 1.5 MEV PROTONS IN QUIET GEOMAGNETIC FIELD
NASA-CR-53584 N64-18437 10-29

EXTRATERRESTRIAL LOW ENERGY PROTONS OVER GEOMAGNETIC POLAR REGIONS
NASA-CR-53180 N64-18480 10-12

MOTION EQUATIONS FOR HYDROGEN AND HELIUM IONIC DIFFUSION IN GEOMAGNETIC FIELD
AFCRL-64-75 N64-18635 11-12

GEOMAGNETIC K-INDICES, IONOSPHERIC ABSORPTION, VL

RADIO WAVE PROPAGATION, TRANSIT IVA RECORDING, VISIBLE AURORAL INDEX, AND MAGNETIC PULSATIONS
N64-19321 12-12

ATMOSPHERIC PARAMETERS AS FUNCTIONS OF ALTITUDE AND MAGNETIC LATITUDE OF FOUR QUIESCENT EARTH CONDITIONS
REPT.-132 N64-20354 13-32

MICROPULSATIONS IN GEOMAGNETIC FIELD AND AURORAL ACTIVITY
AD-432848 N64-21222 14-28

NORTH-SOUTH ASYMMETRY IN SOLAR WIND AND SUNSPOTS FROM GEOMAGNETIC FIELD ACTIVITY
PUBL.-8 N64-21228 14-28

RING CURRENT EFFECT ON BOUNDARY OF GEOMAGNETIC FIELD IN SOLAR WIND
NASA-TR-R-177 N64-21259 14-28

BOUNDARY AND DISTORTION OF GEOMAGNETIC FIELD IN STEADY SOLAR WIND
NASA-TR-R-178 N64-21260 14-28

EFFECT OF EXTERNAL PRESSURE AND OBLIQUE INCIDENCE OF SOLAR WIND ON TERMINAL SHAPE OF GEOMAGNETIC FIELD
NASA-TR-R-181 N64-21261 14-28

ANNOTATED BIBLIOGRAPHY ON GEOMAGNETIC FIELD
REPT.-3-56-63-2 N64-23882 16-12

PERTURBATION OF GEOMAGNETIC FIELD - SPHERICAL HARMONIC EXPANSION N64-24149 16-12

SHAPE OF GEOMAGNETIC FIELD BOUNDARY IN SOLAR WIND
NASA-RP-214 N64-25004 17-28

GEOPHYSICAL PHENOMENA RELATED TO SOLAR WIND AND DISTORTION OF GEOMAGNETIC FIELD
NASA-RP-219 N64-25012 17-12

SPORADIC IONOSPHERIC E-LAYER EFFECT ON DAILY VARIATIONS OF GEOMAGNETIC FIELD
NASA-TT-F-8902 N64-25286 17-12

SPATIAL MODEL OF GEOMAGNETIC FIELD OF EFFECTIVE SOLAR CORPUSCULAR FLUX BASED ON MARINER II MEASUREMENTS
NASA-TT-F-8904 N64-25288 17-12

GEOMAGNETIC CONTROL OF ELECTRON DENSITY IN F REGION OF IONOSPHERE
NASA-RP-263 N64-26001 18-12

MATHEMATICAL MODEL OF NEUTRAL POINT OF IDEAL MAGNETOSPHERE - INTERACTION OF GEOMAGNETIC FIELD WITH SOLAR WIND
NASA-RP-274 N64-27353 19-12

SATELLITE OBSERVATIONS OF GEOMAGNETIC FIELD DURING MAGNETIC STORMS - EXPLORER VI DATA
NASA-RP-295 N64-28355 20-29

VARIATION OF GEOMAGNETIC FIELD WITH SOLAR ACTIVITY
N64-29343 21-12

VARIATION OF GEOMAGNETIC FIELD WITH TIME
NASA-TT-F-8443 N64-30078 21-12

GEOMAGNETIC FIELD AND SECULAR PERTURBATION
NASA-TT-F-8700 N64-30079 21-12

DURATION OF GEOMAGNETIC VARIATIONS AS FUNCTION OF LATITUDE - K INDEX VARIATIONS
NASA-TT-F-8939 N64-30833 22-12

GEOMAGNETIC FIELD BENEATH EARTH SURFACE AND ESTIMATES OF LUNAR AND PLANETARY FIELDS
P-2978 N64-33012 24-12

SELF-EXCITING HOMOGENEOUS DYNAMO FOR MAINTAINING EARTH MAGNETIC FIELD
AFCRL-64-768 N64-33535 24-06

PROPERTIES OF GEOMAGNETIC FIELD
P-2996 N64-33597 24-12

COMPUTATION OF MAIN GEOMAGNETIC FIELD FROM SPHERICAL HARMONIC EXPANSIONS
NASA-TM-X-55105 N64-33629 24-12

GEOMAGNETIC HOLLOW
MEASUREMENTS OF MAGNETIC FIELD IN GEOMAGNETIC CAVITY AND INTERACTION REGION BETWEEN SOLAR WIND MAGNETOSPHERE BY PIONEER V SPACE PROBE
NASA-CR-58961 N64-33040 24-28

GEOMAGNETIC MICROPULSATION
MICROPULSATION FROM METEORS, NUCLEAR EXPLOSION, AND MANMADE SOURCES
AD-433505 N64-17634 09-12

GEOMAGNETIC K-INDICES, IONOSPHERIC ABSORPTION, VLF RADIO WAVE PROPAGATION, TRANSIT IVA RECORDING, VISIBLE AURORAL INDEX, AND MAGNETIC PULSATIONS
N64-19321 12-12

LUNAR TEMPERATURE DETERMINATIONS, HIGH LATITUDE NEUTRON SPECTRUM, GEOMAGNETIC MICROPULSATIONS, AND GEOPHYSICAL EFFECTS OF NUCLEAR TESTS
N64-20503 13-12

MICROPULSATIONS IN GEOMAGNETIC FIELD AND AURORAL ACTIVITY
AD-432848 N64-21222 14-28

MEASUREMENT OF GEOMAGNETIC MICROPULSATIONS USING RUBIDIUM VAPOR MAGNETOMETER
SER. 4, ISSUE 87 N64-21379 14-15

FACILITY FOR OBSERVING GEOMAGNETIC MICROPULSATIONS
AD-439884 N64-25884 18-08

GEOMAGNETISM, IONOSPHERIC ABSORPTION, AURORAL RADAR ECHOS, RADIO WAVE PROPAGATION, MICROPULSATIONS & EARTH CURRENTS
AD-602884 N64-30565 22-12

GEOMAGNETIC MICROPULSATION RESEARCH SURVEY
REPT.-130 N64-32852 24-12

GEOMAGNETIC STORM
CF MAGNETIC STORM
ANNOTATED BIBLIOGRAPHY ON GEOMAGNETIC STORMS, SUDDEN DISTURBANCES, AND MAGNETOSPHERIC COMPOSITION
NASA-RP-47 N64-10132 01-12

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JPRS-21593 N64-10199 01-01

GEOGRAPHIC DISTRIBUTION OF IONOSPHERIC F-2 LAYER DISTURBANCES & EFFECT OF MAGNETIC STORM
T-384-R N64-11280 02-12

GEOMAGNETIC STORM THEORY - CYCLIC VARIATION
N64-11658 03-12

BAY-FORM DISTURBANCES AND STORMS IN TELLURIC FIELD
JPRS-24049 N64-17833 09-12

BEHAVIOR AND ORIGIN OF GEOMAGNETIC STORMS AND CORRELATION WITH OTHER PHENOMENA
AD-428428 N64-19918 12-12

SOLAR CORPUSCULAR STREAMS AND GEOMAGNETIC STORMS DURING FLIGHT OF MARINER II SPACE PROBE
NASA-TT-F-8877 N64-23048 16-28

DEVELOPMENT OF GEOMAGNETIC STORMS AFTER NEGATIVE SUDDEN IMPULSE N64-26295 18-12

RING CURRENT EFFECTS ON AXISYMMETRIC DEVELOPMENT OF GEOMAGNETIC STORM FIELDS IN LOW AND MIDDLE LATITUDES N64-27756 19-12

OCCURRENCE OF VERY LOW FREQUENCY EMISSIONS DURING GEOMAGNETIC DISTURBANCES IN AURORAL ZONE
AFCRL-64-627 N64-28534 20-12

UPPER ATMOSPHERE HEATING IN AURORAL ZONES DURING GEOMAGNETIC PERTURBATIONS - ANALYSIS OF ATMOSPHERIC DRAG DATA FROM INJUN III SATELLITE
N64-28725 20-32

VARIATIONS IN UPPER ATMOSPHERIC TEMPERATURE MEASUREMENTS DURING GEOMAGNETIC STORMS AND QUIET INTERVALS
NASA-CR-56882 N64-28974 20-12

CORRELATION OF IONOSPHERIC PROPAGATION PROPERTIES WITH SOLAR FLARES AND GEOMAGNETIC STORMS OBSERVED BY OBLIQUE LONG RANGE HIGH FREQUENCY PROBING
AFCRL-64-455 N64-29908 21-28

SOLAR CORPUSCULAR STREAMS OF PLASMA CLUSTERS WITH FORCE FREE MAGNETIC FIELD IN GEOMAGNETIC STORMS
NASA-TT-F-8967 N64-31560 23-28

GEOMAGNETISM
SA SPHERICAL HARMONICS
GEOMAGNETIC DISTURBANCES
NASA-TT-F-105 N64-11657 03-12

ANNUAL VARIATION OF GEOMAGNETIC ACTIVITY
N64-11659 03-12

SYNOPTIC CHARTS OF MAGNETIC DISTURBANCE IN ARCTIC REGION N64-11660 03-12

COASTAL EFFECT ON GEOMAGNETIC VARIATION
N64-11662 03-12

GEOMETRY OF MAGNETOSPHERE AND DYNAMICS OF ENERGETIC PARTICLES AND PLASMA IN RELATION TO GEOMAGNETISM
NASA-CR-52904 N64-11740 03-12

INVARIANT SHELL COORDINATES FOR GEOMAGNETICALLY TRAPPED PARTICLES N64-12002 03-28

WORLD MAGNETIC SURVEY BY SATELLITE - POLAR ORBITING GEOPHYSICAL OBSERVATORY
NASA-TN-D-2109 N64-14984 06-12

RELATIONS BETWEEN SOLAR ACTIVITY AND GEOMAGNETIC DISTURBANCES N64-15445 07-28

CLASSIFICATION OF IONOSPHERIC STORM TYPES AND DEPENDENCE ON SOLAR-GEOMAGNETIC PHENOMENA
N64-15447 07-28

EXPLORER XII OBSERVATIONS OF MAGNETIC SUDDEN IMPULSES IN EARTH MAGNETOSPHERE
NASA-CR-53231 N64-17574 09-12

LOW LEVEL GEOMAGNETIC RING EFFECTS IN VAN ALLEN BELT
NASA-CR-56010 N64-17731 09-28

EXPLORER XIV MAGNETIC FIELD MEASUREMENTS IN TAIL OF GEOMAGNETIC CAVITY
NASA-CR-53342 N64-17789 09-12

LARGE DIURNAL VARIATIONS OF GEOMAGNETICALLY TRAPPED AND PRECIPITATED ELECTRONS OBSERVED AT LOW ALTITUDES
NASA-CR-53829 N64-19615 12-28

VISCOUS INTERACTION BETWEEN SOLAR WIND AND EARTH MAGNETOSPHERE N64-19960 12-12

CATALOG OF GEOMAGNETIC DATA AND EARTH CURRENT MEASUREMENTS N64-22484 15-12

HIGH ENERGY GEOMAGNETICALLY TRAPPED PROTONS
UCRL-11409 N64-23226 16-12

GEOMAGNETISM, IONOSPHERE, AND RADIO WAVE PROPAGATION RESEARCH
FTD-TT-62-1330/1&2&4 N64-23848 16-12

GEOMAGNETIC PARAMETERS AND FREQUENCY-HEIGHT CURVES IN IONOSPHERE - RADIO WAVE PROPAGATION
N64-23849 16-12

PULSATING AURORAE AS SOURCE OF INFRASONIC WAVES ASSOCIATED WITH GEOMAGNETIC ACTIVITY
NASA-RP-216 N64-24085 16-12

ATMOSPHERIC SCATTERING OF GEOMAGNETICALLY TRAPPED ELECTRONS FROM STARFISH HIGH ALTITUDE NUCLEAR EXPLOSION N64-24239 17-12

GEOPHYSICAL STUDIES DURING INTERNATIONAL QUIET SUN YEARS - METEOROLOGY, GEOMAGNETISM, IONOSPHERE, AURORA, RADIO ASTRONOMY, AND COSMIC RADIATION ELECTRONIC EQUIPMENT INTERFERENCE CHARACTERISTICS
N64-24870 17-05

DEPENDENCE OF AURORAL ZONE SATELLITE SCINTILLATION ON GEOMAGNETIC ACTIVITY
SR-3 N64-25081 17-12

GEOMAGNETIC POLAR REGION - ARRIVAL OF EXTRATERRESTRIAL LOW ENERGY PROTONS
N64-27209 19-12

MAGNETIC OBSERVATORIES FOR USE DURING INTERNATIONAL QUIET SUN YEAR /IQSY/
NASA-TM-X-55017 N64-27257 19-12

WORLD MAGNETIC SURVEY /WMS/ - METHOD FOR MINIMIZING LIMITATIONS OF MATHEMATICAL AND GRAPHICAL DESCRIPTIONS OF EARTHS MAGNETIC FIELD
NASA-RP-277 N64-27355 19-12

AUTOMATIC COLLECTION OF GEOMAGNETIC DATA IN DIGITAL FORM - INSTRUMENTATION
AFCRL-64-470 N64-27435 19-15

MAGNETIC EFFECTS OF GEOMAGNETICALLY TRAPPED PARTICLES
NASA-CR-58056 N64-27805 19-28

RADIO WAVE PROPAGATION STUDIES - RESEARCH IN IONOSPHERICS, EARTH GRAVITATIONAL FIELD, RADIO METEOROLOGY, MAGNETISM, IONOSONDE ROCKETS AND SATELLITES N64-28768 20-04

AIRGLOW, IONOSPHERE, AURORA, GEOMAGNETISM, COSMIC RAYS, AND SOLAR ACTIVITY DATA RECEIVED BY WDC-A FROM 1 JULY 1957 TO 31 DECEMBER 1963
N64-28976 20-12

ROLE OF FLARE-LIKE NONSTATIONARY PROCESSES IN ORIGIN OF SOLAR WIND FROM ANALYSIS OF GEOMAGNETIC DISTURBANCES N64-30283 22-28

GEOMAGNETISM, IONOSPHERIC ABSORPTION, AURORAL RADAR ECHOS, RADIO WAVE PROPAGATION, MICROPULSATIONS & EARTH CURRENTS
AD-602884 N64-30565 22-12

GEOMAGNETIC FIELD EFFECTS IN MAGNETOSPHERE AND RADIATION BELTS
P-2917 N64-30822 22-28

CERENKOV SCINTILLATION COUNTER MEASUREMENTS OF INTENSITY AND MODULATION OF LOW RIGIDITY COSMIC RAYS AND GEOMAGNETIC CUTOFF
NASA-RP-309 N64-31570 23-28

HEIGHT OF SCINTILLATION-PRODUCING IRREGULARITIES - RELATION BETWEEN AURORAL ZONE SCINTILLATION AND IONOSPHERIC & GEOMAGNETIC CONDITIONS
AFCRL-64-741 N64-31736 23-12

MORPHOLOGY OF AURORAE AND GEOMAGNETISM
N64-32717 24-12

GEOMETRY
REDUCED ACCELERATIONS IN TANGENTIAL COORDINATES
MH-TRANS-424 N64-11570 03-28

GEOMETRY OF MAGNETOSPHERE AND DYNAMICS OF ENERGETIC PARTICLES AND PLASMA IN RELATION TO GEOMAGNETISM
NASA-CR-52904 N64-11740 03-12

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TR-70 N64-13983 05-28

LINEAR VARIATION RELATION TO CURVE LENGTH BY DIFFERENTIAL GEOMETRY
MH-TRANS-443 N64-14716 06-28

GEOMETRIC NONLINEAR THEORY OF SHELLS
NASA-CR-53219 N64-17224 09-28

GEOMETRIC AND PHYSICAL METHODS FOR DETERMINING PARALLAX OF SUN

LT-61-99 N64-18146 10-05

INVERSION OF HYPERGEOMETRIC TRANSFORM USING GAUSS FUNCTION AS FRACTIONAL INTEGRAL
DI-82-0251 N64-18349 10-20

GEOMETRIC PROBABILITY DISTRIBUTIONS
AD-434208 N64-18620 11-20

PROJECTIVE DIFFERENTIAL GEOMETRY
N64-19228 11-20

EXTENDING GEOMETRIC-ALGEBRAIC TECHNIQUES TO REPRESENTATION OF MULTIPORT NETWORKS - MICROWAVE CIRCUIT THEORY
AFCRL-64-129 N64-19644 12-08

EFFECT OF ION EXTRACTION SYSTEM GEOMETRY ON BEAM CURRENT INTENSITY
FTD-TT-64-331/162 N64-21978 15-24

APPROXIMATION FORMULA FOR ARBITRARILY SHAPED HOMOGENEOUS GEOMETRIC BODIES N64-22927 16-23

OPTIMUM GEOMETRY OF INDUCTION PUMPS FOR LIQUID METALS
FTD-TT-62-1724/162 N64-23291 16-11

GEOMETRY AND OPERATIONAL EFFICIENCY OF CENTRIFUGAL COMPRESSOR WHEELS N64-23495 16-17

GEOMETRY AND INSTRUMENTATION CONSIDERATIONS FOR DYNAMIC REFLECTIVITY MEASUREMENTS
N64-24725 17-08

GEOMETRY EFFECTS ON SWITCHING POINT OF BISTABLE FLUID AMPLIFIER MODEL N64-25271 17-11

GEOMETRY OF TRANSITION METAL DIHALIDES - FLUORIDES OF MANGANESE, COBALT, NICKEL, COPPER, & ZINC
ITR-6 N64-25586 17-19

GEOMETRIC DESIGN AND CONFIGURATION OF MICROMODULES
AD-437877 N64-26668 18-09

MATHEMATICAL DESCRIPTION OF GEOMETRIC CONFIGURATION OF LIQUID PROPELLANT ROCKET BOOSTER FOR TRAJECTORY AND PERFORMANCE PREDICTION
NASA-TM-X-53026 N64-27244 19-34

GEOMETRY, FORMING METHODS, SINTERING, AND SPECIMEN TESTING OF MACROLAMINATE PARTICLE
IR-1 N64-28638 20-17

JET COMPRESSOR GEOMETRY EFFECT ON EFFICIENCY
PR-10 N64-28827 20-11

GEOMETRY OF ORTHOGONAL NON-HYPOIDAL CYLINDRICAL-CONICAL TRANSMISSION N64-29150 21-15

REGULAR-FACED CONVEX POLYHEDRONS
N64-31743 23-20

GEOMETRY AND FIRST-ORDER ERROR STATISTICS FOR THREE- AND FOUR-STATION HYPERBOLIC POINT LOCATIONS ON SPHERICAL EARTH
AFCRL-64-461 N64-31805 23-12

GEOMETRIC INTERPRETATION OF WAVE FRONT DEFORMATION
TM-119 N64-32760 24-08

CHROMOSPHERIC FLARE IDENTIFICATION BY SOLAR, GEOMAGNETIC, & IONOSPHERIC DATA AND GEOMETRY OF INTERPLANETARY MAGNETIC FIELD
NASA-TT-F-226 N64-34020 24-28

GEOPHYSICAL SATELLITE
METEOROLOGICAL ROCKET AND GEOPHYSICAL SATELLITE STUDY OF NOCTILUCENT CLOUDS IN UPPER ATMOSPHERE
N64-24558 17-21

EPHEMERIS OF KINETHEODOLITE OBSERVATIONS - THOR AGENA D, MIDAS VI, BLUE SCOUT, AND GEOPHYSICAL RESEARCH SATELLITE N64-33446 24-08

GEOPHYSICS
CF GEOCHEMISTRY
CF GEOLOGY
SURFACE GEOPHYSICAL INSTRUMENT FOR SURVEYOR SPACECRAFT PROJECT
NASA-CR-52133 N64-10097 01-15

SOVIET GEOPHYSICAL RESEARCH PAPERS ON GRAVITY VARIATIONS, EARTH CRUST STUDY, AND PLANETARY GEOPHYSICS
JPRS-21967 N64-10384 01-12

ANNOTATED BIBLIOGRAPHY ON GEOLOGICAL SCIENCES AND GEOPHYSICS N64-10414 01-12

GEOPHYSICAL EXPLORATIONS IN USSR - GRAVIMETRIC SURVEYS
JPRS-17412 N64-10474 01-12

TABLES AND GRAPHS OF DAILY SOLAR ACTIVITY FOR 1962 AND 1963, FIRST QUARTER - GEOPHYSICAL DATA
N64-10606 01-29

TABLES AND GRAPHS OF DAILY SOLAR ACTIVITY FOR 1963 FIRST QUARTER - GEOPHYSICAL DATA
N64-10607 01-29

TABLES AND GRAPHS OF DAILY SOLAR ACTIVITY FOR 1963 FIRST HALF - GEOPHYSICAL DATA N64-10608 01-29

GEOPHYSICAL AND METEOROLOGICAL RESEARCH IN 1962
JPRS-18401 N64-10760 02-01

MAGNETOTELLURIC SOUNDING AND OTHER GEOPHYSICAL EXPLORATION N64-10761 02-12

ABSTRACTS FOR PAPERS ON GEOPHYSICS
JPRS-20051 N64-11431 02-12

GEOPHYSICS & GEOLOGICAL SURVEYS
JPRS-18819 N64-11484 03-01

PLANS AND SERVICES OF HYDROMETEOROLOGICAL, GEOPHYSICAL, & GEODETIC ORGANIZATIONS
JPRS-22378 N64-12007 03-21

FORTRAN PROGRAM FOR ERROR CORRECTIONS IN PHOTOGRAMMETRIC OBSERVATIONS - GEOPHYSICS
AFCRL-63-741 N64-12292 03-20

GEOPHYSICAL INVESTIGATIONS OF ARCTIC ICE PACK
AFCRL-63-693 N64-12426 04-21

GEOPHYSICAL INVESTIGATION OF ARCTIC ICE PACK - SOUND PROPAGATION N64-12427 04-21

ICE AGES - POSTGLACIAL UPLIFT, EXTENT OF GLACIATION IN NORTHERN HEMISPHERE, AND SEA LEVEL CHANGES N64-12428 04-21

POSTGLACIAL UPLIFT - GEOPHYSICS
N64-12429 04-21

PLEISTOCENE SEA LEVELS AND GLACIATED REGIONS
N64-12430 04-21

AGE OF TWO CREEKS FOREST BED - GLACIATION HISTORY
N64-12431 04-21

GEOPHYSICAL DATA - ATMOSPHERICS, WHISTLERS, AND SOLAR RADIO EMISSIONS N64-12500 04-12

SHEAR PRESS CAPABLE OF SIMULTANEOUS HIGH PRESSURE AND TEMPERATURE FOR SIMULATING EARTH DEPTHS OF 30 TO 200-KILOMETERS
AFCRL-63-780 N64-12653 04-15

GEOPHYSICAL STRUCTURE OF EARTH CRUST IN TRANSITION ZONE FROM ANTARCTIC CONTINENT TO INDIAN OCEAN
JPRS-22888 N64-13948 05-12

GEOPHYSICS IN GEOLOGICAL MAPPING - AEROMAGNETISM, RADIOMETRY, AND SURFACE CHECKING OF AERIAL SURVEY
JPRS-23073 N64-14610 06-12

GEOPHYSICS IN GEOLOGICAL MAPPING - AEROMAGNETISM, ELECTROMAGNETIC FIELDS, AND RADIOMETRY
N64-14611 06-12

AEROMAGNETIC ANOMALIES OF POROSOZERO SUITE IN KARELO-FINNISH SSR & IN USSR - GEOPHYSICS
N64-14612 06-12

RECENT ADVANCES IN ASTROGEOPHYSICS
AD-41835J N64-15276 07-1

BACKSCATTER TECHNIQUES IN GEOPHYSICS
N64-15282 07-12

GEOPHYSICAL AND ASTRONOMICAL CONTRIBUTIONS OF COSMOS III AND V SATELLITES
FTD-TT-62-1547/1&4 N64-16072 07-29

RADIO TRANSMISSION AND GEOPHYSICAL STUDIES WITH COSMOS SATELLITES
AID-P-64-5 N64-16462 08-08

MAGNETOTELLURIC PROFILING AND MAGNETOMETER DEVELOPMENT IN USSR
JPRS-23548 N64-16513 08-12

MAGNETOTELLURIC SOUNDING IN CENTRAL RUSSIA
N64-16514 08-12

PULSATIONS OF GEOMAGNETIC FIELD AND EARTH CURRENTS USED FOR GEOPHYSICAL EXPLORATION
N64-16520 08-12

NEW ISOSTATIC REDUCTION TABLES FOR GRAVITY ANOMALIES CALCULATED ACCORDING TO AIRY THEORY
N64-17233 09-12

GEOPHYSICS - ORIGIN OF EARTH OCEANS AND CONTINENTS
N64-19327 12-12

LUNAR TEMPERATURE DETERMINATIONS, HIGH LATITUDE NEUTRON SPECTRUM, GEOMAGNETIC MICROPULSATIONS, AND GEOPHYSICAL EFFECTS OF NUCLEAR TESTS
N64-20503 13-12

COLLECTION OF DATA FOR INTERNATIONAL GEOPHYSICAL YEAR DURING PERIOD 1 JAN - 30 JUN 1963
IGY GEN. REPT.-20 N64-21756 15-12

GEOGRAPHIC-GEOPHYSICAL METHODS OF STUDYING ORIGIN AND STRUCTURE OF MOON N64-22035 15-29

SOVIET DEVELOPMENTS IN ASTROPHYSICS AND GEOPHYSICS OF UPPER ATMOSPHERE
AID-P-64-19 N64-23330 16-12

VACUUM ULTRAVIOLET SPECTRA OF MOLECULES, GEOPHYSICAL AND ASTROPHYSICAL PROCESSES, AND SPACE EXPERIMENT INVESTIGATIONS
AFCRL-64-393 N64-24175 16-29

SOLAR PROTONS AND GEOPHYSICAL EFFECTS
N64-24229 16-12

OSCILLATIONS IN GEOPHYSICAL PHENOMENA
N64-24468 17-21

GEOPHYSICAL STUDIES DURING INTERNATIONAL QUIET SUN YEARS - METEOROLOGY, GEOMAGNETISM, IONOSPHERE, AURORA, RADIO ASTRONOMY, AND COSMIC RADIATION ELECTRONIC EQUIPMENT INTERFERENCE CHARACTERISTICS
N64-24870 17-05

GEOPHYSICAL PHENOMENA RELATED TO SOLAR WIND AND DISTORTION OF GEOMAGNETIC FIELD
NASA-RP-219 N64-25012 17-12

EFFECT OF GEOPHYSICAL AND GEODETIC UNCERTAINTIES AT LAUNCH AREA ON BALLISTIC MISSILE IMPACT ACCURACY
BSD-TDR-63-256, REISSUE A N64-25244 17-29

VARIATIONS OF COSMIC RAYS AND CONNECTION WITH ASTROPHYSICAL AND GEOPHYSICAL PHENOMENA
N64-25928 18-28

LUNAR INFLUENCE ON ATMOSPHERIC AND GEOPHYSICAL PHENOMENA - BIBLIOGRAPHY N64-26023 18-12

SOLAR EFFECTS ON GEOPHYSICAL PHENOMENA AT CONJUGATE POINTS ON MAGNETIC FORCE LINES
UAG-R146 N64-26220 18-12

SOLAR AND GEOPHYSICAL ASPECTS OF COSMIC RADIATION AND MAGNETOHYDRODYNAMICS - BIBLIOGRAPHY
AFCRL-63-893 N64-26717 18-28

REPORTS AND REPRINTS ON SPACE SCIENCES, SATELLITES AND PROBES, GEOPHYSICS, TRACKING, INSTRUMENTATION, AND PLASMA PHYSICS N64-27171 19-01

VISUAL AURORAS - MORPHOLOGY, CORRELATION WITH GEOPHYSICAL AND SOLAR ACTIVITY, AND ENERGETIC PARTICLES ASSOCIATED WITH AURORAS
NASA-TM-X-55041 N64-28080 20-12

INNER STRUCTURE OF EARTH N64-28395 20-12

RADIOMETRY AND TELEMETRY TECHNIQUES AND APPARATUS FOR GEOPHYSICAL INVESTIGATIONS OF DEEP OIL AND GAS WELLS
JPRS-26100 N64-28398 20-15

ANALYSIS OF TIME SEQUENCES OR SERIES USING STOCHASTIC APPROACH FOR GEOPHYSICAL APPLICATIONS
RS-12 N64-28784 20-12

HIGH LATITUDE GEOPHYSICAL DATA - COSMIC NOISE LEVEL AT 30 MC/S
UAG-C-34 N64-30803 22-12

PHYSICAL BASES OF PULSE NEUTRON-NEUTRON LOGGING APPLIED TO GEOPHYSICS N64-31787 23-12

INTERPRETATION OF PULSE NEUTRON-NEUTRON LOGGING - ROCK PARAMETERS AND LIFETIME OF THERMAL NEUTRONS
N64-31795 23-12

GEOPOTENTIAL
CF GEOELECTRICITY
COMPUTATION OF TESSERAL HARMONICS IN GEOPOTENTIAL FIELD N64-14850 06-12

GEOPOTENTIAL FUNCTION OF EARTH GRAVITY FIELD AS GEODETIC REFERENCE SURFACE
NASA-CR-56078 N64-20640 13-12

STRATOSPHERIC CIRCULATION AND DIFFERENCES IN TEMPERATURES, GEOPOTENTIALS, AND MEAN VECTOR WINDS OVER BERLIN
QTSR-2 N64-32091 23-21

NONADIABATIC FACTORS IN SHORT TERM FORECASTING OF LOWER ATMOSPHERE GEOPOTENTIAL FIELDS
JPRS-26792 N64-32130 23-12

GEOPOTENTIAL HEIGHT
WARM TEMPERATURES AND HIGH GEOPOTENTIAL HEIGHTS - STUDY OF ALEUTIAN ANTICYCLONE ASYMMETRY OF POLAR-NIGHT WESTERLIES N64-10985 02-21

GEOSTROPHIC WIND
VERTICAL CIRCULATION PRODUCED BY LATENT HEAT IN A STATIC AND QUASI-GEOSTROPHIC ATMOSPHERE - CLIMATOLOGY N64-11604 03-21

DIAGNOSTIC DIFFERENTIAL EQUATION FOR STREAM FUNCTION OF NON-GEOSTROPHIC MOTION IN FRONTAL ZONE
AFCRL-64-246 N64-21083 14-21

COMPUTER PROGRAMMING FOR METEOROLOGY - GEOSTROPHIC WIND MODELING AND PREDICTION OF WIND & TEMPERATURE PROFILES
JPRS-26693 N64-31022 22-21

COMPARISON OF NUMERICALLY DETERMINED DIVERGENT AND NONDIVERGENT WINDS TO GEOSTROPHIC WINDS
AD-601704 N64-32587 23-21

GERMANIUM
CRYSTAL TENSILE STRENGTH AND ANNEALING EFFECT ON GERMANIUM CRYSTALS - EDGE DISLOCATIONS AND ELASTIC STRESSES IN SILICON
JPRS-17689 N64-10708 02-25

ANNEALING EFFECT ON DENSITY OF DISLOCATIONS AND COMPRESSION CURVES OF GERMANIUM CRYSTALS
N64-10710 02-25

PHOTOELECTRIC PROPERTIES OF GERMANIUM DOPED WITH GOLD AND ZINC
JPRS-17980 N64-11022 02-25

PHOTOVOLTAIC EFFECT STUDY OF HOMOGENEITY OF GERMANIUM
E-T-P-63-1 N64-11936 03-25

USE OF VACUUM-DEPOSITED ALUMINUM LEADS TO BASE AND EMITTER ELECTRODES OF HIGH-FREQUENCY GERMANIUM P-N-P TRANSISTORS
TR-1100 N64-12710 04-09

EFFECT OF DISLOCATIONS ON EFFECTIVE DIFFUSION COEFFICIENTS OF GALLIUM, INDIUM, ANTIMONY, AND ARSENIC IN GERMANIUM N64-12759 04-25

STRUCTURAL DEFECTS OF GERMANIUM AND HIGH TEMPERATURE LABORATORY FURNACE
JPRS-22442 N64-12773 04-01

STRUCTURAL DEFECTS OF GERMANIUM CRYSTALS N64-12774 04-23

ISOTOPIC COMPOSITION OF GERMANIUM IN METEORITES N64-13010 04-05

IMPURITIES IN SILICON & GERMANIUM DISCOVERED BY ELECTRON SPIN RESONANCE AND INFRARED ABSORPTION
NP-9 N64-13036 04-18

PORTABLE THERMOPHOTOVOLTAIC CONVERTER FOR TERRESTRIAL APPLICATION - GERMANIUM PHOTOVOLTAIC CELL AND SILICON CELL FABRICATION & TESTING
TR63-228 N64-13076 04-09

SLOW & FAST SURFACE STATES IN SEMICONDUCTORS OF GERMANIUM AND SILICON
RADC-TDR-63-464 N64-13784 05-25

GROWTH OF SINGLE CRYSTAL GERMANIUM FILMS BY ELECTRON BEAM MELTING
NASA-CR-55315 N64-13913 05-25

TECHNIQUES FOR VACUUM DEPOSITING SINGLE CRYSTAL SEMICONDUCTOR FILMS OF GERMANIUM OR SILICON ON INSULATING SUBSTRATES
AD-427338 N64-13969 05-25

NEGATIVE PHOTODIODE EFFECT OF GERMANIUM DIODES EXPOSED TO GAMMA RADIATION
FTD-MT-63-88/1626364 N64-14377 06-25

DIFFUSION COEFFICIENT OF TANTALUM IN SINGLE CRYSTAL GERMANIUM
FTD-MT-63-107 N64-14386 06-25

DISLOCATION EFFECTS ON MICROSTRUCTURE OF INDIUM FUSED INTO GERMANIUM N64-15016 07-25

PORTABLE THERMOPHOTOVOLTAIC CONVERTER - GERMANIUM PHOTOVOLTAIC CELLS, REFLECTANCE GONIOMETER, AND HEAT EXCHANGER
TR64-04 N64-15378 07-06

DEPOSITION OF SILICON OR GERMANIUM FILMS ON POLYCRYSTALLINE INSULATING SUBSTRATES BY VACUUM EVAPORATION
AD-431749 N64-16990 09-25

MAXIMUM OPERATING FAILURE OF GERMANIUM EPITAXIAL MESA TRANSISTOR
QPR-5 N64-17328 09-09

GERMANIUM AND GALLIUM ARSENIDE TUNNEL DIODE CONVERTERS N64-17430 09-06

PRODUCTION METHODS FOR IMPROVING RELIABILITY OF GERMANIUM POWER TRANSISTOR
AD-432235 N64-17439 09-09

QUALITY CONTROL MANUAL FOR IMPROVING RELIABILITY OF GERMANIUM TRANSISTORS
AD-432315 N64-17440 09-01

DISPROPORTIONATION GROWTH OF EPITAXIAL GERMANIUM, AND REDUCTION GROWTH OF SINGLE CRYSTALS
AFCRL-64-63 N64-18038 10-25

LOW TEMPERATURE IRRADIATION OF GERMANIUM AND MEASUREMENT OF STORED ENERGY N64-18128 10-25

ACTIVE VOLUME INCREASE OF LITHIUM DRIFTED GERMANIUM SEMICONDUCTOR DETECTOR
NASA-CR-53389 N64-18291 10-23

ENGINEERING OF GERMANIUM MICROWAVE CIRCUIT TRANSISTORS
REPT.-13 N64-19109 11-09

CARRIER LIFETIME IN ELECTRON & PROTON IRRADIATED GERMANIUM
NASA-CR-53782 N64-19349 12-25

GERMANIUM SOLAR CELLS FOR RADIANT ENERGY CONVERSION N64-19838 12-06

COMPARISON OF ACCELERATED AND NORMAL STRESS FAILURE MODES OF GERMANIUM TRANSISTORS N64-20980 14-09

PRODUCTION AND TESTING OF GOLD DOPED GERMANIUM INFRARED DETECTORS
AD-431917 N64-21753 15-17

OPTICAL CONSTANTS OF GERMANIUM
REPT.-5557-4-F N64-21875 15-25

PLASMA RESONANCE IN GERMANIUM RODS N64-24672 17-25

GERMANIUM AND SILICON TRANSISTORS
REPT.-03-64-23 N64-25101 17-09

THEORETICAL STUDIES OF PROTON INDUCED RADIATION DAMAGE IN GERMANIUM
NASA-CR-56830 N64-25567 17-25

GERMANIUM BOLOMETER DETECTOR OF MILLIMETER WAVELENGTH THERMAL ENERGY N64-25626 17-15

DISTRIBUTION OF GERMANIUM & TIN IN METEORITES N64-25743 17-29

STUDY OF VALENCE BAND OF GERMANIUM BY CYCLOTRON RESONANCE N64-27188 19-25

INTERBAND AND INTRABAND SCATTERING IN N-TYPE GERMANIUM
ARPA-TR-10 N64-27448 19-25

ELECTRIC PROPERTIES OF GERMANIUM
DS-131 N64-27551 19-25

RELIABILITY IMPROVEMENTS OF TRANSISTOR - GERMANIUM POWER DEVICE
AD-603363 N64-28606 20-17

FABRICATION AND TESTING OF P-TYPE GOLD-DOPED GERMANIUM INFRARED DETECTORS HAVING BARIUM FLUORIDE WINDOWS
QPR-5 N64-28691 20-15

PRODUCTION METHOD IMPROVEMENTS AND RELIABILITY TESTING FOR GERMANIUM EPITAXIAL MESA TRANSISTOR
REPT.-03-64-12 N64-28795 20-17

FABRICATION OF RELATIVELY TRANSPARENT GERMANIUM PHOTOVOLTAIC CELL BACKED BY OPTICALLY REFLECTIVE ELECTRODE N64-29170 21-06

HIGH FREQUENCY, HIGH POWER GERMANIUM TRANSISTORS
REPT.-15 N64-30643 22-09

PHONON INTERACTIONS IN CRYSTALS - APPLICATION TO AMPLIFIERS, OSCILLATORS, AND FREQUENCY CONVERTERS OF MICROWAVE ACOUSTIC ENERGY
QTR-4 N64-30908 22-25

HIGH-CURRENT GERMANIUM AND GALLIUM ARSENIDE TUNNEL DIODES
AD-421897 N64-31238 22-09

AUGER RECOMBINATIONS WITH PARTICIPATION OF TRAPS IN GERMANIUM AND OTHER SEMICONDUCTORS
AFCRL-64-747 N64-31739 23-25

GERMANIUM AND SILICON TRANSISTOR-LIKE DEVICES - RESISTORS, DIODES, AND TRANSISTORS
REPT.-16 N64-32207 23-09

PREPRODUCTION ENGINEERING METHODS FOR GOLD-DOPED GERMANIUM INFRARED DETECTORS
QPR-6 N64-33339 24-17

DOPING OF INDIUM ANTIMONIDE & GERMANIUM DETECTORS

NRL-MEMO-1550 N64-33730 24-25

N-TYPE SEMICONDUCTOR GERMANIUM CRYSTALS WITH POLYMER COATINGS
FTD-TT-64-467/1&2 N64-33940 24-25

GERMANIUM ALLOY
PRODUCTION ENGINEERING METHOD FOR IMPROVEMENT OF GERMANIUM ALLOY POWER TRANSISTOR
AD-429044 N64-15123 07-17

INVESTIGATION OF MAGNESIA-MAGNESIUM FLUORIDE-GERMANIA-LITHIUM FLUORIDE FOR SYNTHETIC MINERAL USAGES
BM-RI-6398 N64-17228 09-25

SILICON-GERMANIUM ALLOYS FOR THERMOCOUPLE APPLICATIONS N64-17386 09-06

GERMANIUM COMPOUND
THERMOCHEMISTRY OF BORON, TIN, AND GERMANIUM ALKYLATES
FTR-2 N64-14361 06-07

SYNTHESIS AND PHYSICAL & CHEMICAL PROPERTIES OF GERMANIUM FLUORPHLOGOPITE COMPOUND
BM-RI-6443 N64-20488 13-19

TOXICOLOGY OF VANADIUM TRIOXIDE DUST, GERMANIUM TETRACHLORIDE, AND ALIPHATIC AMINES
JPRS-25116 N64-23366 16-16

TOXIC PROPERTIES OF GERMANIUM TETRACHLORIDE N64-23369 16-16

LOW TEMPERATURE HEAT CAPACITIES AND ENTROPIES OF SULFIDES OF ARSENIC, GERMANIUM, AND NICKEL
BM-RI-6511 N64-28675 20-18

THERMOCHEMISTRY OF ALKYLS OF TIN AND GERMANIUM
AD-448759 N64-32459 23-07

INFRARED SPECTRAL STUDIES OF GERMANIUM COMPLEXES
TR-1 N64-34001 24-07

GERMANY
DEMAND OF PROFESSIONAL PILOTS WITHIN GERMAN FEDERAL REPUBLIC
DVL-345 N64-19800 12-01

STRATOSPHERIC CIRCULATION AND DIFFERENCES IN TEMPERATURES, GEOPOTENTIALS, AND MEAN VECTOR WINDS OVER BERLIN
QTSR-2 N64-32091 23-21

GERONTOLOGY
S AGING

GETOL AIRCRAFT
S GROUND EFFECT MACHINE

GETTER
GAS IONIZATION FOR REMOVAL OF INERT GASES FROM TITANIUM GETTER PUMP
AEDC-TDR-64-83 N64-23974 16-09

GIBBS EQUATION
AUTOMATIC DIGITAL COMPUTATION OF GIBBS EQUATION AND MASS ACTION FUNCTIONS FOR CHEMICAL EQUILIBRIUM
RM-3935-PR N64-14011 05-07

STATISTICAL MECHANICS OF IRREVERSIBLE THERMODYNAMIC REACTIONS USING GIBBS EQUATIONS
RSIC-187 N64-24348 17-13

GIBBS PHENOMENON
S FOURIER SERIES

GIMBAL
SUPPORTING STRUCTURE OF SPACE-VEHICLE STABILIZED PLATFORM - MINIMIZING WEIGHT OF SUPPORTING GIMBALS
NASA-CR-55263 N64-13402 04-30

GEOMETRICAL ANALYSIS OF INERTIAL PLATFORM GIMBAL SYSTEM
SMFD-2-2 N64-19857 12-22

INERTIAL GIMBAL SYSTEM WITH AIR BEARING GYROSCOPE
RG-TR-64-1 N64-20303 13-15

ROTATING BEARINGS TO REDUCE GYROSCOPE DRIFT CAUSED BY GIMBAL BEARING FRICTION
FTD-TT-62-1900/1&2&4 N64-23410 16-15

NAVIGATION INSTRUMENT - SINGLE GYROSCOPE GIMBAL PLATFORM N64-24518 17-15

APPARENT MOTION OF ASTATIC GYROSCOPE WITH DRY FRICTION IN AXIS OF GIMBAL FIXED TO EARTH N64-29142 21-15

INFLUENCE OF CENTRIFUGAL MOMENTS OF INERTIA OF INNER SUSPENSION GIMBAL ON GYROSCOPIC STABILITY N64-30366 22-15

ENGINE AND PUMP INLET DUCT GIMBAL JOINT SYSTEM IN S- IC STAGE OF SATURN V LAUNCH VEHICLE
NASA-TN-D-574 N64-30993 22-17

GIMBALLESS INERTIAL REFERENCE SYSTEM
STRAPPED-DOWN INERTIAL SYSTEMS N64-15258 07-22

GLACIER
TEMPERATURE PROFILE SOUNDING FOR IDENTIFICATION OF GLACIATED ZONES ON ELBRUS N64-16456 08-12

SHEAR ZONES AND FLOW MEASUREMENTS OF GLACIERS
CRREL-93 N64-21024 14-12

GLACIOLOGY
CF GEOLOGY
ICE AGES - POSTGLACIAL UPLIFT, EXTENT OF GLACIATION IN NORTHERN HEMISPHERE, AND SEA LEVEL CHANGES N64-12428 04-21

POSTGLACIAL UPLIFT - GEOPHYSICS N64-12429 04-21

PLEISTOCENE SEA LEVELS AND GLACIATED REGIONS N64-12430 04-21

AGE OF TWO CREEKS FOREST BED - GLACIATION HISTORY N64-12431 04-21

GLACIOLOGY - DATA FROM INTERNATIONAL GEOPHYSICAL YEAR PROGRAM N64-23917 16-12

GLAND
SA ADRENAL GLAND
EFFECT OF ASCORBIC ACID ON FUNCTION OF STRESSED SUPRARENAL GLANDS OF RATS IN HIGH TEMPERATURE ENVIRONMENT
JPRS-20011 N64-11319 02-16

GLASS
CF REFRACTORY MATERIAL
CONDUCTIVITY AND MELTING CONDITIONS OF SOME ELECTROCONDUCTIVE GLASSES N64-10862 02-19

THEORETICAL BASIS FOR SYNTHESIS OF GLASS-CERAMIC MATERIALS FROM METALLURGICAL SLAG
FTD-TT-63-753/1&2 N64-11544 03-19

ROLLING CONTACT FATIGUE PROCESS IN CRYSTALLIZED GLASS CERAMICS
NASA-TN-D-2082 N64-11557 03-19

EFFECT OF INTERFACIAL BONDING ON STRENGTH OF TWO-PHASE SYSTEM CONSISTING OF TUNGSTEN IN GLASSY MATRIX
UCRL-11011 N64-11583 03-19

NONLINEAR STRESS RESPONSE OF WINDOW GLASS TO STATIC PRESSURE AND RANDOM NOISE
NASA-TN-D-2025 N64-11898 03-23

TRIPLET-TRIPLET ENERGY TRANSFER IN GLASSES - SOLVENT EFFECT
TDR-269/4240-30/-1 N64-12185 03-23

OPTICAL PROPERTIES OF HIGH TEMPERATURE INFRARED TRANSMITTING GLASSES
TI-08-63-167 N64-12336 03-19

INFLUENCE OF END GROUPS ON GLASS TEMPERATURE & FLOW TEMPERATURE OF MACROMOLECULAR GLASSES
RAE TRANS-1045 N64-12905 04-19

REFRACTIVE INDEX OF RARE EARTH OXIDIZED METAL

COMPOUNDS IN GLASS
N64-13586 05-23

PHOTOELASTIC STRESS MEASUREMENT OF ULTRASONIC ECHO PATTERNS IN CIRCULAR GLASS PLATES OF VARIOUS SIZES AND SHAPES
WAL-TR-143.5/2 N64-13725 05-23

ELECTRON MICROSCOPE ANALYSIS OF IRON DIFFUSION INTO SODIUM DISILICATE GLASS ROD
UCRL-11116 N64-14400 06-25

ELASTIC MODULI AND TENSILE STRENGTH OF GLASSES AND CERAMIC MATERIALS
N64-14734 06-19

GLASS LASER RESEARCH - SPECTRAL PROPERTIES OF NEODYMIUM-DOPED GLASSES
LRC-63-991 N64-14783 06-19

SOLID GLASS AND CERAMIC EXTERNAL PRESSURE VESSELS
AD-428905 N64-14968 06-33

PENETROMETER FOR MEASURING ABSOLUTE VISCOSITY OF GLASS
BM-RI-6358 N64-15159 07-15

HOMOGENEITY OF LARGE APERTURE PARALLEL GLASS PLATES
N64-15301 07-23

PROTACTINIUM SEPARATION FROM THORIUM BY TRIBUTYL PHOSPHATE SOLVENT OR VYCOR GLASS ADSORPTION
N64-15653 07-07

PROPAGATION OF SPHERICAL SHOCK WAVE THROUGH ALUMINUM-GLASS INTERFACE
N64-16261 08-23

FOSSIL GLASSES PRODUCED BY IMPACT OF METEORITES AND ASTEROIDS WITH PLANET EARTH
N64-16733 08-05

ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY OF ETHANOL AND ETHER GLASSES - RADIAL FORMATION UPON IRRADIATION
TDR-269/4240-30/-4 N64-17358 09-23

ELECTRON & PROTON RADIATION EFFECTS ON TRANSMITTANCE OF GLASSES & ADHESIVES
N64-17382 09-06

SEMICONDUCTING OXIDE GLASSES
NASA-CR-53199 N64-17587 09-23

PHENYL SILANE PREIMPREGNATED GLASS FABRIC LAMINATES TESTED FOR HIGH TEMPERATURE STRUCTURAL PROPERTIES
ERR-AW-126 N64-18922 11-19

GLASSES FOR HIGH VOLTAGE INSULATORS
FTD-TT-63-256/1&2&4 N64-19183 11-19

EFFECT OF NITRIC ACID, THORIUM, FLUORIDE, AND ALUMINUM ON PROTACTINIUM ADSORPTION BY UNFIRED VYCOR GLASS
ORNL-3599 N64-19237 11-07

HYPERVELOCITY IMPACT OF SMALL GLASS SPHERES ON COMPOSITE SPACE STRUCTURES
N64-19372 12-23

ELECTROMECHANICAL SWITCHING ELEMENT - GLASS ENCAPSULATED REED RELAYS
N64-19534 12-09

FORMATION AND COMPOSITION OF CRYSTALS IN FOAMED GLASS
FTD-TT-63-275/1&2&4 N64-19745 12-19

CRYSTALLINE FORMS IN FOAMED GLASS
N64-19746 12-19

COMPOSITION OF CRYSTALLINE PHASE OF FOAMED GLASS
N64-19747 12-19

GRINDING OUT POCKETS IN SOLID BLOCKS OF GLASS TO PRODUCE LIGHTWEIGHT RIBBED STRUCTURES FOR MIRROR BLANKS
NASA-CR-53881 N64-19956 12-17

THERMAL EXPANSION DIFFERENCES BETWEEN MATRIX AND REINFORCEMENT ON STRENGTH RETENTION OF GLASS REINFORCED ALUMINUM PHOSPHATE LAMINATES
IER-4 N64-20179 13-13

STABILIZED RADIATION RESISTANT OPTICAL GLASSES
AERE-R-3998 N64-20495 13-19

INFRARED ABSORPTION SPECTRUM OF CERIUM /VALENCE 3/ IN SILICA AND BORAX GLASS
N64-20928 14-23

GLASS CRYSTAL STRUCTURE - QUALITY CONTROL OF GLASS MATERIAL
FTD-TT-63-796/1&2&4 N64-21955 15-19

CERAMICS, GLASS, AND PYROCERAM
FTD-TT-63-269/1&2 N64-23093 16-01

CRYSTALLIZATION OF GLASS AND PYROCERAM
N64-23094 16-19

GLASS, CERAMICS, AND REFRACTORY MATERIALS
FTD-TT-63-688/1&2&4 N64-23184 16-19

CRYSTALLIZATION IN GLASSES OBTAINED FROM LOW MELTING CLAYS
N64-23185 16-19

SYNTHESIS OF LEAD-FREE HIGH REFRACTING GLASS
N64-23186 16-19

USE OF LOW MELTING CLAY FOR PRODUCTION OF GLASS CONTAINERWARE
N64-23187 16-19

EFFECT OF COMPONENTS AND ADDITIVES ON PRODUCTION OF RUBY COLORED GLASS
N64-23188 16-19

GRAPHIC METHOD OF CONVERTING COMPOSITION OF GLASS FROM WEIGHT PERCENT TO MOLAR PERCENT
N64-23189 16-19

PARAMAGNETIC CENTERS IN GERMANIUM OXIDE GLASS CAUSED BY ELECTRON BOMBARDMENT AND GAMMA RADIATION
ORNL-3635 N64-23212 16-09

QUARTZ CRYSTAL SEALING UNITS IN MINIATURE GLASS CRYSTAL HOLDERS
AD-436089 N64-23251 16-19

STRUCTURAL, CHEMICAL AND ELASTIC PROPERTIES OF GLASS
FTD-TT-63-265/1&2&4 N64-23298 16-19

TEKTITES AND SILICA GLASSES - HISTORY, CHEMICAL COMPOSITION, GEOMETRY, NOMENCLATURE, DISTRIBUTION, LOCALIZATION, AND LOCAL GEOLOGY AT DISCOVERY SITES
N64-25059 17-05

GLASS FILAMENT WOUND STRUCTURES AND COMPOSITE MATERIALS IN POLARIS MODEL A3 CHAMBERS
REPT.-3888-31M-5, ADDEND. N64-25350 17-27

PHOTOIONIZATION, ELECTRON-TRAPPING, AND PHOTOCONDUCTION IN GLASSES
AFCRL-64-298 N64-25374 17-25

GLASS AS CONTAINER FOR RADIOACTIVE MATERIALS
HW-81862 N64-25646 17-23

HIGH TEMPERATURE INFRARED TRANSMITTING GLASSES
TI-08-64-78 N64-25829 17-19

DOWNWIND DEPOSITION OF GLASS BEADS EJECTED FROM AIRCRAFT FLYING AT LOW ALTITUDE
SES-TN-136 N64-25876 18-21

CRYSTALLIZATION OF GLASS - CONTROLLED PHASE SEPARATION DUE TO METASTABLE LIQUID IMMISCIBILITY IN SIMPLE SILICATE SYSTEMS
TR-2 N64-25900 18-19

FAILURE RATE AND PERFORMANCE RELIABILITY OF CORNING GLASS TIN-OXIDE RESISTOR
AD-438882 N64-25988 18-09

ULTRASONIC TESTING OF FILAMENT WOUND REINFORCED RESIN GLASS STRUCTURES
ML-TDR-64-117 N64-26228 18-33

ELASTIC MODULI AND TENSILE STRENGTH OF SILICATE GLASSES AND OTHER CERAMIC MATERIALS
PR-4 N64-26691 18-19

EFFECT OF HEATING ON ROOM TEMPERATURE STRENGTH OF PRISTINE E GLASS RODS

T&AM-252 N64-26826 18-19

GLASS AND CERAMICS
FTD-TT-62-1667/1&2 N64-27044 19-19

INTERNAL CONSUMPTION AND ELECTRIC CONDUCTIVITY OF SILICATE ALKALI GLASS - BEFORE AND AFTER CRYSTALLIZATION N64-28045 20-19

LASER MATERIALS STUDY - FORMULATION OF LOW MELTING LITHIUM SILICATE GLASS
AD-442059 N64-28283 20-25

EFFECTS OF COMPOSITION AND IRRADIATION ON GLASS TRANSITION TEMPERATURE OF METHYL METHACRYLATE-STYRENE COPOLYMERS N64-28290 20-19

CHROMATIC POLARIZATION PRODUCED BY COMPRESSED GLASS - BIREFRINGENT PROPERTIES OF CRYSTALS
RSIC-231 N64-28529 20-23

INFLUENCE OF STRESS CORROSION ON STRENGTH OF GLASS FIBERS - STATIC FATIGUE TESTS ON E GLASS FILAMENTS
BMPR-2 N64-28546 20-33

BONDING BETWEEN GLASS AND PLASTICS
NASA-CR-58695 N64-28895 20-19

SEALING PROCESSES FOR GLASS ENCLOSED QUARTZ CRYSTAL UNITS
REPT.-8 N64-29638 21-09

GROWTH OF METASTABLE LIQUID IMMISCIBILITY IN GLASS AS FUNCTION OF HEAT TREATMENT TIME - SMALL ANGLE X-RAY SCATTERING MEASUREMENT METHOD
TR-4 N64-30115 21-25

IONIZING RADIATION DOSIMETRY BASED ON MEASUREMENT OF THERMOLUMINESCENCE OF ALUMINA-PHOSPHATE GLASSES
NRL-TRANS-972 N64-30180 21-15

INTEGRAL EQUATIONS FOR PROBLEM OF IRREGULAR FUSION OF GLASSY MATERIALS N64-30418 22-13

PHYSICAL PROPERTIES, FLUORESCENCE, AND THEORETICAL ENERGY DISTRIBUTION OF GLASS FOR LASER
AD-443680 N64-30591 22-25

ENERGY TRANSFER IN SILICATE GLASS COACTIVATED WITH CERIUM AND NEODYMIUM
NRL-1546 N64-30676 22-25

CHEMICAL ANALYSIS OF ANCIENT GLASS SPECIMENS
BNL-879/T-354/ N64-30751 22-19

CRYSTALLOGRAPHY, CRYSTAL GROWTH & CHEMISTRY, GLASS, IONS FOR LASERS, AND ANNOTATED BIBLIOGRAPHY ON LASER MATERIALS
NASA-CR-75 N64-30992 22-25

GLASS MICRODOSIMETER ROD MEASUREMENT OF RADIATION DOSE WITHIN TISSUE
UR-651 N64-31059 22-16

EXPERIMENTAL STUDY OF TWO-DIMENSIONAL ELASTICITY USING BIREFRIGENCE OF GLASS SUBJECTED TO STRESSES
RSIC-262 N64-31930 23-33

GLASS TECHNOLOGY - OXIDATION REDUCTION AND OPTICAL ABSORPTION, NUCLEATION AND CRYSTAL GROWTH, MELTING AND REFINING, AND ELECTRICAL PROPERTIES OF GLASS
ONRL-48-64 N64-32539 23-19

BASIC MATERIALS RESEARCH - THEORETICAL AND EXPERIMENTAL STUDY OF METALS, CERAMICS, SEMICONDUCTORS, INORGANIC COMPOUNDS, POLYMERS, AND GLASSES
AD-420653 N64-32985 24-25

QUARTZ GLASS PRESSURE VESSELS FOR HYDROTHERMAL EXPERIMENTS IN SILICA-SATURATED SYSTEMS
JPL-TR-32-649 N64-33605 24-10

ELECTRICAL AND INFRARED PROPERTIES OF GLASS IN BISMUTH OXIDE-TELLURIUM OXIDE SYSTEM
NASA-TM-X-53110 N64-33869 24-25

FLUORESCENCE ON NONSOLARIZING LASER GLASS MATERIAL - DEFENDER PROJECT
TSR-4 N64-33925 24-23

GLASS FIBER
STRUCTURAL DESIGN METHODS FOR GLASS FIBER PRESSURE VESSELS
ENG. PAPER-1415 N64-10004 01-34

FABRICATIONS, PROPERTIES, AND USES FOR FOUR BASIC GLASS FIBER REINFORCED PLASTICS
JPRS-19389 N64-10587 01-19

FIBERGLASS AND FIBERGLASS PRODUCTS UTILIZED AS BUILDING MATERIALS FOR INSULATION
JPRS-18380 N64-10641 01-19

TECHNOLOGY OF GLASS FIBER REINFORCED PLASTIC PRODUCTION AND APPLICATION
JPRS-18890 N64-10646 01-19

LOW PRESSURE FORMING OF THERMOSETTING PLASTICS AND GLASS FIBERS
JPRS-22184 N64-11598 03-19

STRUCTURAL PROPERTIES OF FIBERGLAS FILAMENT WOUND PRESSURE VESSELS AT CRYOGENIC TEMPERATURES
NASA-CR-55023 N64-11810 03-19

MATERIAL TESTING OF GLASS ROVING FOR FILAMENT WINDING
AD-419158 N64-12338 03-34

METAL COATINGS FOR GLASS FILAMENTS
NRL-TM-237 N64-12370 03-19

GLASS FIBER STRENGTH ENHANCEMENT THROUGH BUNDLE DRAWING OPERATIONS
ARF-K263 N64-13607 05-19

STRENGTH AND WEAKNESS FACTORS OF GLASS FIBER REINFORCED PLASTICS N64-15118 07-33

PHYSICOCHEMICAL PROPERTIES OF GLASS FIBER
JPRS-19122 N64-17465 09-19

X-RAY TELEVISION IMAGING SYSTEM FOR INSPECTION OF FIBERGLASS REINFORCED PLASTIC MISSILE CASES
WAL-TR-142.5/2-3 N64-18611 11-11

X-RAY TELEVISION AND SCAN-CONVERSION IMAGE STORAGE SYSTEMS FOR STORAGE OF VIDEO SIGNALS ON MAGNETIC TAPES - TESTING ROCKET MOTOR CASES
WAL-TR-142.5/2-4 N64-18612 11-17

X-RAY SCAN TELEVISION SYSTEM FOR INSPECTION OF FIBERGLASS REINFORCED PLASTIC ROCKET MOTOR CASES
WAL-TR-142.5/2-6 N64-18613 11-17

TELEVISION X-RAY SYSTEM FOR INSPECTION OF FIBER-GLASS REINFORCED PLASTIC ROCKET MOTOR CASES
WAL-TR-142.5/2-7 N64-18614 11-17

TELEVISION X-RAY SYSTEM FOR INSPECTION OF FIBER-GLASS REINFORCED PLASTIC ROCKET MOTOR CASES
WAL-TR-142.5/2-7A N64-18615 11-17

GLASS FIBER TENSILE STRENGTH IMPROVEMENT BY BUNDLE DRAWING
IITRI-8263-4 N64-18765 11-19

HOLLOW GLASS FIBER REINFORCED PLASTICS COMPARED WITH SOLID GLASS-PLASTIC COMPOSITES
R63SD41 N64-19129 11-19

EVALUATING METHODS FOR UNWOVEN GLASS-FIBER REINFORCED PLASTIC LAMINATES IN FLEXURE
FPL-024 N64-19565 12-34

TRANSIENT TEMPERATURE RESPONSE OF SIX COMPOSITE FIBERGLASS-METAL INSULATION PANELS FOR F-111 AIRCRAFT
FTDM-3219 N64-20067 13-17

NONDESTRUCTIVE INSPECTION & TESTING OF FIBERGLASS REINFORCED PLASTIC MISSILE CASES & STRUCTURAL MATERIALS BY USE OF X-RAY TELEVISION EQUIPMENT
WAL-TR-142.5/2-8 N64-20319 13-17

COMPILATION AND ANALYSIS OF TEST DATA ON

FIBERGLASS-REINFORCED PLASTICS
R-479 N64-21076 14-03

EFFECT OF GLASS FIBER FORM ON STRENGTH OF REINFORCED PLASTIC COMPOSITES
R64SD18 N64-21786 15-19

WINDING RESIN-BONDED GLASS FILAMENT AND TITANIUM ALLOY ROCKET MOTOR CASE
PWA-2336 N64-22721 15-27

SHEAR STRENGTH OF PLASTIC LAMINATES REINFORCED WITH UNWOVEN GLASS FIBERS
FPL-033 N64-22894 16-34

LINER MATERIALS FOR FILAMENT WOUND FIBERGLASS CRYOGENIC VESSELS N64-23200 16-19

METAL SPRAYING OF GLASS FIBER RADAR TARGET MODELS N64-24315 17-08

EXPLORATION AND EVALUATION OF NEW GLASSES IN FIBER FORM
RDR-1343-6 N64-25673 17-19

STRESS CORROSION REACTION EFFECTS ON STRENGTH OF GLASS FIBER
AD-601344 N64-25685 17-19

CREEP ANALYSIS OF ORTHOTROPIC FIBERGLASS
FTD-TT-64-372/1&2&4 N64-26934 18-33

FIBERGLASS USED AS STRUCTURAL MATERIAL IN SHIP BUILDING
JPRS-25575 N64-28105 20-19

INFLUENCE OF STRESS CORROSION ON STRENGTH OF GLASS FIBERS - STATIC FATIGUE TESTS ON E GLASS FILAMENTS
BMPR-2 N64-28546 20-33

GLASS FILAMENT WOUND GROMMET TO PROTECT ROTATING BAND OF PROJECTILE
TR-1155 N64-29305 21-17

GLASS FIBER REINFORCEMENTS FOR FILAMENT WOUND COMPOSITE STRUCTURES
TR-64-8-104 N64-29555 21-17

PRODUCTION & HYDROSTATIC PRESSURE TEST OF GLASS FIBER FILAMENT WOUND CYLINDER
QR-8 N64-30464 22-34

TENSILE AND COMPRESSIVE PROPERTIES OF PLASTIC LAMINATES REINFORCED WITH UNWOVEN GLASS FIBERS
FPL-052 N64-30686 22-19

PENETRATION BALLISTICS OF REINFORCED FIBERGLASS PLASTIC PLATES
ARCD-3842-2 N64-30698 22-19

CHEMICAL ANALYSIS OF ANCIENT GLASS SPECIMENS
BNL-879/T-354/ N64-30751 22-19

SILICA FIBER FORMING AND CORE-SHEATH COMPOSITE FIBER DEVELOPMENT
QPR-3 N64-31159 22-17

SURFACE CHEMISTRY OF GLASS FIBER REINFORCED PLASTICS
NRL-6083 N64-31426 23-19

EXPERIMENTAL EVALUATION OF FUSED FIBER OPTICAL COMPONENTS FROM GLASS
IER-2 N64-32608 23-19

EFFECT OF ALUMINUM OR GLASS FLAKE ADDITION TO SONIC FATIGUE DAMPING COMPOUNDS
LB-31046, SUPPL. 2 N64-32609 23-19

DRAWING OF CONTINUOUS LENGTHS OF GLASS-METAL COMPOSITE FIBERS
C910242-1 N64-32812 24-17

GLAZE
CF COATING
FLAME GLAZING OF SLIP/CAST FUSED SILICA RADOMES FOR RAIN EROSION TESTS
QR-1 N64-25725 17-19

GLIDE
PILOT-CONTROLLED CONSTANT GLIDE SLOPE POWER LANDING PROCEDURE AND EQUIPMENT
AGARD-423 N64-11909 03-10

INSTRUMENT LANDING SYSTEM GLIDE SLOPE ANTENNA SYSTEMS EVALUATION
RD-64-11 N64-18087 10-09

CAPTURE EFFECT GLIDE SLOPE MONITOR TECHNIQUES FOR GUIDING AIRCRAFT TO RUNWAY
RD-64-17 N64-19167 11-10

GLIDE SLOPE ANTENNAS FOR AIRCRAFT LANDING SYSTEM FOR TURBOJET AND OTHER FAST AIRCRAFT N64-20935 14-09

FORMULATION OF BOUNDARY VALUE PROBLEM IN IRIS LOADED INFINITE PERIODIC WAVEGUIDE WITH GLIDE REFLECTION SYMMETRY
TR-75 N64-31831 23-08

GLIDER
SA PARAGLIDER
CF AIRCRAFT
ADAPTIVE AUTOMATIC FLIGHT CONTROL FOR REENTRY GLIDER N64-17811 09-30

AMUR GLIDER - LIGHT GLIDER-SAILPLANE
FTD-MT-63-1147/1&2 N64-21545 15-07

DEFLECTIONS AND INTERNAL LOADS FOR X-20 GLIDER TRUSS STRUCTURE
D2-81242 N64-22262 15-34

FLUTTER CALCULATIONS FOR TOWED GLIDER WITH THREE DEGREES OF FREEDOM N64-23076 16-33

REFRACTORY METAL PROTECTIVE COATING SYSTEMS FOR HYPERSONIC GLIDER REENTRY VEHICLE N64-27017 19-17

WING PROFILE, PAYLOAD, AND DRAG MINIMIZATION OF GLIDER
FTD-TT-64-341/1&2 N64-27827 19-04

AERODYNAMIC HEATING OF HYPERSONIC GLIDER WINGS
REPT.-61SD12 N64-30073 21-13

CONSTRUCTION MATERIALS FOR REENTRY GLIDER COMPONENTS
SGC-335-2 N64-32424 23-17

GLOBAL TRACKING NETWORK /GLOTRAC/
CF TRACKING SYSTEM
GLOTRAC - GLOBAL TRACKING NETWORK N64-18403 10-08

INVESTIGATION OF GLOTRAC TYPE G TRANSPONDER FOR USE IN RANGE CALIBRATION SATELLITE - SIGNAL TRANSMISSION
AFCRL-64-240/A/ N64-18695 11-08

EVOLUTION OF GLOBAL TRACKING NETWORK N64-29103 21-08

GLOTRAC DATA ADJUSTMENT PROGRAMS N64-29115 21-08

GLOTRAC TYPE G TRANSPONDER - ELECTROMAGNETIC INTERFERENCE, FILTER REDESIGN, POWER SUPPLY, AND RECEIVED SIGNAL STRENGTH CIRCUIT
GD/A-63-1195/C/, VOL. II N64-31984 23-08

GLOBULIN
IMMUNOLOGICAL REMOVAL OF IODINE-131 LABELED RABBIT ANTIBODY TO RAT FIBRINOGEN IN NORMAL AND TUMOR-BEARING RATS
UR-634 N64-10190 01-16

BIOCHEMISTRY OF X-RAY IRRADIATION EFFECT ON BLOOD PROTEIN REACTIONS, DISULFIDE BONDS OF FIBRINOGEN, AND SYNTHESIS OF AMINO ACIDS
JPRS-24164 N64-19059 11-16

GAMMA GLOBULIN AND IONIZING RADIATION EFFECTS ON ANTIBODY PRODUCTION IN IRRADIATED & NONIRRADIATED TISSUE
JPRS-26956 N64-32780 24-16

GLOSTER GA-5 AIRCRAFT
ZERO LIFT DRAG MEASUREMENTS OF WINGS PROPOSED FOR TRANSONIC FIGHTER AIRCRAFT - GLOSTER JAVELIN
ARC-CP-678 N64-16530 08-04

GLUCOSE
CF CARBOHYDRATE
GLUCOSE UTILIZATION OF BRAIN CORRELATED WITH INSUFFICIENT OXYGEN CONSUMPTION IN LIVER - HYPOXIA
N64-14604 06-16

ELECTRICAL RESISTIVITY OF NAPHTHALENE, GLUCOSE, AND PHENANTHRENE
NOLTR-63-75 N64-26238 18-25

CARBOXYLATION MECHANISMS IN PHOTOSYNTHESIS - PRODUCTION OF GLYCOLLATE FROM LABELLED GLUCOSE AS FUNCTION OF CARBON DIOXIDE PARTIAL PRESSURE
ASR-3 N64-30570 22-16

CORTISONE ORAL GLUCOSE TESTS OF RELATIONSHIP OF TOOTH CAVITY INCIDENCE AND GLUCOSE LEVEL IN YOUNG ADULT MALE HUMANS
SAM-TDR-64-57 N64-32981 24-16

GLYCERINE
INFRARED SPECTROPHOTOMETRY FOR MICRODETERMINATION OF SERUM TRIGLYCERIDES AND CHOLESTERYL ESTERS
N64-22862 16-16

X-RAY FLUORESCENCE STUDY OF OSMIUM TETROXIDE-TRIGLYCERIDE INTERACTION AS FUNCTION OF DEGREE OF UNSATURATION N64-22863 16-16

GLYCEROL
CONDUCTANCE OF ALKALI HALIDES IN WATER-GLYCEROL AND IN WATER-ETHYLENE GLYCOL MIXTURES
AD-432997 N64-21393 14-07

GLYCINE
SYNTHESIS OF ALPHA-L-ASPARTYL-L-SERYLGLYCINE - TRIPEPTIDE ESTER N64-10344 01-07

CHEMICAL COMPOUNDS OF INDIUM WITH GLYCINE
FTD-MT-63-279 N64-26732 18-07

PYROELECTRIC CURRENT SENSITIVITY OF TRIGLYCINE SULFATE IN RESPONSE TO ELECTROMAGNETIC RADIATION
NOLC-601 N64-29856 21-25

GLYCOGEN
SA CELLULOSE
CF CARBOHYDRATE
BLOOD GLYCOGEN METABOLISM IN MAMMALS AFTER IONIZING RADIATION
JPRS-18479 N64-10769 02-16

GLYCOL
LOW VELOCITY DETONATION IN NITROGLYCERIN-ETHYLENE GLYCOL DINITRATE
AD-428376 N64-14465 06-26

COLUMN ELUTION FRACTIONATION & THERMAL DEGRADATION OF POLYOXYPROPYLENE GLYCOL-TOLUENE DIISOCYANATE POLYMERS
NASA-CR-53993 N64-20609 13-07

CONDUCTANCE OF ALKALI HALIDES IN WATER-GLYCEROL AND IN WATER-ETHYLENE GLYCOL MIXTURES
AD-432997 N64-21393 14-07

GNOME PROJECT
THEORY AND RESULTS OF SHOCK-INDUCED TRANSITION - GNOME PROJECT
PNE-112F, PT. III N64-33369 24-33

GNOTOBIOTICS
S CONTAMINATION

GOAT
HEMATOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL RESPONSE FROM MASSIVE DOSES OF MIXED GAMMA AND NEUTRON IRRADIATION IN GOATS
RTD-TDR-63-3077 N64-13827 05-16

GOLD
EDGE DISLOCATION CLIMB IN SILICON UNDER ACTION OF DISSOLVED GOLD N64-10733 02-25

PHOTOELECTRIC PROPERTIES OF GERMANIUM DOPED WITH GOLD AND ZINC
JPRS-17980 N64-11022 02-25

GOLD IN SEA WATER
AD-424516 N64-13029 04-18

NEUTRON SPECTRA FROM BOMBARDMENT OF GOLD BY OXYGEN-16 IONS
UCRL-11088 N64-14416 06-23

THERMAL & ELECTRIC PROPERTIES OF COPPER, SILVER, GOLD, ALUMINUM, & COPPER BASE ALLOYS
N64-17072 09-18

HOT ELECTRON EMITTERS - VAPOR DEPOSITION OF CADMIUM SULFIDE & PHOTOELECTRIC MEASUREMENT OF HOT ELECTRON RANGE IN GOLD
AFCRL-64-134 N64-18604 11-25

FAILURE IN SILICON TRANSISTORS DUE TO FORMATION OF GOLD-ALUMINUM-SILICON COMPLEX AT LEADS
N64-20991 14-25

PRODUCTION AND TESTING OF GOLD DOPED GERMANIUM INFRARED DETECTORS
AD-431917 N64-21753 15-17

MECHANICAL PROPERTIES OF SINTERED BERYLLIUM WITH LOW EMISSIVITY GOLD COATING
A738 N64-22583 15-18

EVAPORATION OF GOLD FROM GRID AND CROSSARM SURFACES AND DISTRIBUTION ON ELEMENTS OF RADIO TUBE WITH OXIDE CATHODE N64-24570 17-09

VACANCY FORMATION IN GOLD AT HIGH PRESSURE WITH RESISTIVE HEATING
NASA-TN-D-2371 N64-24821 17-25

THIN FILM DEPOSITION TECHNIQUES FOR STUDY OF GOLD-CADMIUM SULFIDE-GOLD STRUCTURES AS CAPACITOR CATHODES IN MICROWAVE TUBES
IR-3 N64-29328 21-25

CADMIUM SELENIDE FILM AS EMITTER OF HOT ELECTRONS AND ATTENUATION OF HOT ELECTRONS IN GOLD
AFCRL-64-673 N64-31043 22-25

SAND PUMP INSTALLATION WITH HYDROCYCLONE TO REDUCE CYANIDATION TIME FOR GOLD-BEARING ORES
N64-31416 23-07

KINETICS OF REDUCTION OF SURFACE OXIDES FORMED ON GOLD ELECTRODES
TM-6 N64-33756 24-06

GOLD ALLOY
MECHANICAL PROPERTIES OF ORDERED COPPER-GOLD ALLOY CRYSTALS N64-10740 02-25

ELECTRON MICROSCOPE STUDY OF SLIP FLOW TRANSITION IN DEFORMATION OF COPPER-GOLD AND COPPER-PALLADIUM ALLOYS N64-10747 02-18

ELECTRODEPOSITION OF DISPERSION-STRENGTHENED GOLD ALUMINUM OXIDE ALLOYS
WVT-RR-6321 N64-25720 17-18

HEAT TREATMENT EFFECT ON MICROSTRUCTURE AND HARDNESS IN CAST GOLD ALLOY
NEL-1211 N64-27868 19-18

RESISTIVITY CHANGES DURING QUENCHING OF DILUTE BINARY GOLD ALLOYS OF SILVER AND INDIUM
N64-30792 22-25

GOLD PLATE
GOLD-PLATED BALL BEARING FOR SATELLITE LUBRICATING SYSTEM
NASA-TN-D-2101 N64-11237 02-17

GONDOLA
ENERGY AND WAVELENGTH CALIBRATION OF GONDOLA V SPECTROMETER WITH GOLD-DOPED GERMANIUM DETECTOR BY BALLOON IN STRATOSPHERE
CARDE-TN-1591/64 N64-27533 19-15

GONIOMETER
PORTABLE THERMOPHOTOVOLTAIC CONVERTER - GERMANIUM PHOTOVOLTAIC CELLS, REFLECTANCE GONIOMETER, AND HEAT EXCHANGER
TR64-04 N64-15378 07-06

AVERAGE DIFFUSION OF X-RAYS MEASURED BY GONIOMETER
N64-29713 21-21

GOTHIC WING
PITCHING DERIVATIVES FOR GOTHIC WING OSCILLATING WITH LEADING EDGE SEPARATION
CP-695 N64-14158 05-03

AERODYNAMIC CHARACTERISTICS OF SLENDER CAMBERED GOTHIC WINGS AT TRANSONIC SPEEDS
ARC-R&M-3370 N64-28083 20-03

AERODYNAMIC CHARACTERISTICS OF SLENDER CAMBERED GOTHIC WINGS AT TRANSONIC SPEEDS
N64-29331 21-03

GOURSAT PROBLEM
GOURSAT PROBLEM FOR THIRD ORDER HYPERBOLIC PARTIAL DIFFERENTIAL EQUATION
NOLTR-64-38 N64-20419 13-20

GRADIENT
SA PRESSURE GRADIENT
SA TEMPERATURE GRADIENT
SEMIAUTOMATIC RECORDING OF POTENTIAL DIFFERENCE ON SURFACE OF STRUCTURAL COMPONENTS OF ALLOY
N64-12441 04-18

COMPARISON OF RANDOM SEARCH METHOD WITH GRADIENT METHODS FOR REGULATION OF MULTIPARAMETER SYSTEM
JPRS-25202 N64-23256 16-20

VARIATION OF ELECTRICAL POTENTIAL GRADIENT OF ATMOSPHERE FROM ANTARCTIC MEASUREMENTS
N64-31765 23-21

GRAIN
SA PROPELLANT GRAIN
CRITICAL DISLOCATION DENSITY NEAR GRAIN BOUNDARY OF METAL ASSOCIATED WITH FATIGUE FRACTURE - IRON ALLOYS N64-10790 02-18

ANNEALING TEMPERATURE AND GRAIN SIZE EFFECT ON DUCTILITY AND BRITTLENESS OF POWDERED TUNGSTEN
ASD-TDR-63-676 N64-11769 03-18

ABNORMAL GRAIN GROWTH IN ALUMINUM & ALUMINUM ALLOYS - BIBLIOGRAPHY
SRB-63-3 N64-12013 03-18

SELF-DIFFUSION COEFFICIENT AT BOUNDARIES OF GRAINS OF SILVER N64-17043 09-25

MECHANICAL PROPERTIES OF GRANULAR SYSTEMS - SOIL ENGINEERING
AFCRL-64-79 N64-19412 12-12

PREPARATION OF LOW-ANGLE GRAIN BOUNDARIES IN INDIUM ANTIMONIDE AND STUDY OF ELECTRICAL AND GALVANOMAGNETIC PROPERTIES
REPT.-2404 N64-21359 14-25

GRAIN BOUNDARY HARDENING IN NICKEL-ALUMINUM DUE TO OXYGEN CONTAMINATION
ASD-TDR-63-309, PT. II N64-21442 14-18

SCREEN, MICROSCOPIC, & SEDIMENTATION METHODS FOR GRAIN SIZE QUALITY CONTROL IN POWDER METALLURGY
N64-23469 16-18

ULTRAFINE GRAIN GRAPHITE MATERIALS FOR SPACE APPLICATIONS
WADD-TR-61-72, VOL. 38 N64-24184 16-19

GRAIN DESIGNS FOR HYBRID ROCKET ENGINES - OXYGEN-POLYMETHYL METHACRYLATE SYSTEMS
P-119 N64-25187 17-27

ROLE OF GRAIN BOUNDARY IN DEFORMATION OF CERAMIC MATERIALS
ASD-TDR-62-225, PT. III N64-25485 17-19

INTERSTELLAR MATERIAL AND STRUCTURE OF GALAXIES
N64-27198 19-05

GRAIN BOUNDARY AND LATTICE DIFFUSION OF CHROMIUM IN ZIRCONIUM
AEET/CD/22 N64-28658 20-07

EFFECT OF BORON ON RECOVERY AND RECRYSTALLIZATION OF PURE IRON & EFFECT OF PRECIPITATED IMPURITIES AND STRAIN ON GRAIN GROWTH IN PURE IRON
AD-602137 N64-28863 20-25

EFFECTS ON GRAIN SIZE OF VIBRATION DURING POURING OF MOLTEN ALLOYS TO FORM CASTINGS
N64-29049 21-18

GRAIN BOUNDARY EFFECTS ON MECHANICAL PROPERTIES OF POLCRYSTALLINE AGGREGATES
TR-6 N64-32555 23-25

GRANT
GEOGRAPHIC DISTRIBUTION OF GOVERNMENT RESEARCH FUNDS AND INDIRECT COSTS RE FEDERAL GRANTS
N64-33516 24-01

GRAPH
SA NOMOGRAPH
SA SPECTROGRAPH
CF CHART
GRAPHICAL CALCULATION OF SHIELD THICKNESS FOR GAMMA RAY OVERDOSE PROTECTION
AEET/HP/TH-4 N64-10230 01-23

OPERATION OF AIRCRAFT OSCILLOGRAPH WITH ULTRA-VIOLET RADIATION SOURCE AT DIFFERENT VOLTAGES
RAE-TRANS-1040 N64-12065 03-06

DEFINITION & CHARACTERISTICS OF QUADRATIC GRAPHS
E-T-G-63-11 N64-12202 03-20

GRAPHIC AIDS TO FORECASTING LOW CLOUDINESS, POOR VISIBILITY, AND FOG N64-12791 04-21

TOPOLOGY - USE OF FOUR COLORS ON EDGES OF REGULAR THREE-DEGREE GRAPH
ORC-63-28-/RR/ N64-14764 06-20

USE OF GRAPHOLOGY FOR SELECTION OF MILITARY PILOTS
N64-16206 08-08

CATHODE OSCILLOGRAPH FOR STATIC MAGNETIC CHARACTERISTICS STUDY OF FERROMAGNETIC MATERIALS
FTD-TT-63-435/162 N64-16368 08-23

GRAPHICAL METHOD FOR ESTIMATING PERIOD SATELLITE IS WITHIN VIEW OF GROUND POINT
W-6270 N64-16563 08-29

GRAPHIC ANALYSIS OF METEOROLOGICAL SATELLITE PHOTOGRAPHS
RP-17 N64-17531 09-15

IBM 7090 FORTRAN SUBROUTINE FOR MAKING LINEAR, LOGARITHMIC, & SEMILOGARITHMIC GRAPHS
ORNL-3581 N64-17717 09-20

LATTICE-ORDERED SEMIGROUPS, GRAPHS, AND AUTOMATA - W-NETWORKS
MRC-451 N64-18035 10-20

GRAPHIC METHOD TO DETERMINE RESPONSIVE DISPLACEMENT OF TWO-DEGREE-OF-FREEDOM DAMPED LINEAR SPRING-MASS SYSTEM MOUNTED ON SHOCK MACHINE
N64-18550 11-23

GRAPHS AND TABLES FOR DETERMINATION OF TURNING ANGLES AND BOUNDARY SHAPES OF JET EXHAUSTS
AEDC-TDR-64-73 N64-18794 11-02

PROPERTIES OF NETWORKS & BI-COMPLETE GRAPHS - COMMUNICATION NETWORK THEORY
R-174 N64-19401 12-20

FLOWGRAPH TECHNIQUES IN RELIABILITY PROBLEMS - ERROR AND FAILURE ANALYSIS N64-20990 14-20

GRAPHICAL DATA PROCESSING - MODIFICATIONS TO 1000 IMAGE PREPROCESSOR TO IMPROVE SIGNAL-TO-NOISE RATIO AND INTEGRATION OF TRANSMITTED LIGHT
REPT.-14 N64-21309 14-23

VARIABLE ADJACENCY MATRIX AND TRANSFER FUNCTION OF GRAPHS N64-22868 16-16

GRAPHIC INTERPRETATION OF MAGNETOGASDYNAMIC FLOW PATTERNS
SR-10 N64-23222 16-24

GRAPHS USED WITH HYPERSONIC WIND TUNNELS
ARL-64-56 N64-24202 16-02

GRAPHICAL & MECHANICAL METHOD FOR CONSTRUCTION & RECONSTRUCTION OF AXONOMETRIC DRAWING IN RECTANGULAR COORDINATE SYSTEM N64-24522 17-15

FREQUENCY VALUES & DEGREE OF DAMPING OF OSCILLATORS OF ELECTROMECHANICAL OSCILLOGRAPH N64-24526 17-09

MODEL N-FERMION SYSTEM USED TO STUDY RANGE OF VALIDITY OF DIAGRAMATIC MANY-BODY PERTURBATION THEORY AND SUMMATIONS OF HIGHER ORDER GRAPH
TR-334 N64-24866 17-20

SYNTHESIS OF SWITCHING FUNCTION BY LINEAR GRAPH THEORY
AD-601155 N64-25407 17-09

ONE-PARTICLE EXCHANGE APPROXIMATION AND FEYNMAN GRAPHS
TH-57 N64-26432 18-23

TECHNICAL ILLUSTRATING - GRAPHS, LINE DRAWINGS, PERSPECTIVE DRAWING, PHOTOGRAPHS, TYPOGRAPHY, AND LAYOUT
NASA-SP-7008 N64-26749 18-01

PROBE METHOD OF STUDYING DIRECT CURRENT CORONA DISCHARGE FIELD USING OSCILLOGRAPH
FTD-TT-62-1530 N64-26859 18-15

LINEAR GRAPH ANALYSIS OF ACTIVE AND PASSIVE NETWORKS - APPLICATION TO SWITCHING AND COMMUNICATION NETWORKS
R-203 N64-28006 20-09

ASSOCIATION OF TOPOLOGICAL STRUCTURES WITH LINEAR ALGEBRAIC EQUATIONS USING SIGNAL FLOW GRAPHS
R-211 N64-28277 20-09

SOLID PROPELLANT ROCKET COMBUSTION INSTABILITY MEASURED BY ACCELEROMETER, OSCILLOSCOPE AND OSCILLOGRAPH N64-28595 20-26

OPTIMAL GRAPHING FOR MACHINE TOOLS PROCESSING VARIETIES OF PARTS - PRODUCTION EFFICIENCY N64-29744 21-20

PRESSURE TRANSDUCER FOR RECORDING OSCILLOGRAPH AND PLETHYSMOGRAPHY OF VASCULAR SYSTEM RESPONSE TO COLD STIMULUS IN NOSE
FTD-TT-63-849/1&2 N64-31103 22-16

PRESSURE TRANSDUCER FOR OPTICAL RECORDING OSCILLOGRAPH N64-31105 22-16

RELIABILITY ANALYSIS OF VARIOUS INTEGRANT STRUCTURES USING FLOWGRAPHS
GE/EE/63-3 N64-31253 22-17

GRAPHITE
SA PYROLYTIC GRAPHITE
CF CARBON
CF LUBRICANT
PHYSICAL PROPERTIES OF GRAPHITE AND NEW GRAPHITE MATERIALS
ASD-TDR-63-719 N64-10547 01-19

DIRECTORY FOR RAPID IDENTIFICATION OF GRAPHITE MATERIALS AND SOURCES OF SUPPLY
ASD-TDR-63-853 N64-11766 03-19

DESIGN CRITERIA FOR GRADE CFZ GRAPHITE AND PREPARATION FOR THERMOPHYSICAL PROPERTY DETERMINATION AT HIGH TEMPERATURES
AD-523744 N64-11929 03-19

APPARATUS FOR DETERMINING CREEP AND RECOVERY OF GRAPHITE BY APPLYING TORSIONAL STRESSES TO THIN WALLED TUBES
COA-NOTE-MAT-1 N64-12021 03-19

REACTION OF MICROWAVE-ACTIVATED NITROGEN WITH GRAPHITE YIELDING CYANOGEN, HYDROGEN CYANIDE, & CARBON DIOXIDE
C-19 N64-14018 05-07

REENTRY OF FUELED GRAPHITE PARTICLES N64-14577 06-30

HIGH TEMPERATURE MECHANISM OF CREEP AND RECOVERY IN GRAPHITE
COA-M-MAT-10 N64-14831 06-19

FAST RESPONSE GRAPHITE FURNACE AS A SOURCE OF BLACKBODY RADIATION FOR PYROMETER CALIBRATION
NASA-RP-121 N64-14861 06-23

PHOTOMICROGRAPHIC EXAMINATION OF CARBON & GRAPHITE MICROSTRUCTURES
WADD-TR-61-72, VOL. 22 N64-15069 07-19

THERMAL EXPANSION OF GRAPHITE
WADD-TR-61-72, VOL. 24 N64-15070 07-19

SPECTRAL REFLECTANCE AND EMISSIVITY OF CARBON AND GRAPHITE MATERIALS MEASURED BY CARBON ARC IMAGE FURNACE
WADD-TR-61-72, VOL. 21 N64-15578 07-19

VARIATION OF GRAPHITE PROPERTIES WITH CHEMICAL STRUCTURE, AND CARBONIZATION STUDIES
WADD-TR-61-72, VOL. 27 N64-15579 07-19

DIAMAGNETIC SUSCEPTIBILITY OF GRAPHITE
WADD-TR-61-72, VOL. 39 N64-15580 07-19

EXPERIMENTAL VALUES FOR SPECIFIC HEAT OF GRAPHITE OVER TEMPERATURE RANGE FROM 20 TO 3800-DEG. K.
WADD-TR-61-72, VOL. 41 N64-15581 07-19

OUTGASSING BEHAVIOR OF EXPERIMENTAL GAS COOLED REACTOR GRAPHITE MODERATOR
ORNL-3560 N64-15851 07-23

CHARACTERISTICS OF HIGH TEMPERATURE MECHANISMS OF CREEP AND RECOVERY IN GRAPHITE
COA-NOTE-MAT-1, PT. 2 N64-15916 07-19

FABRICATION OF GRAPHITE MATERIALS
WADD-TR-61-72, VOL. 42 N64-16586 08-19

STRUCTURAL ANALYSIS OF GRAPHITIC MATERIALS
AD-432138 N64-16832 08-19

HEAT AND MASS TRANSFER EQUATIONS FOR GRAPHITE ABLATION AT ELEVATED TEMPERATURES
R63SD89 N64-17782 09-13

GRAPHITE HEATER AS BASIS FOR AIR HEATING DEVICE
ARL-63-188 N64-17846 10-19

METHOD FOR DETERMINING ELASTIC MODULUS OF GRAPHITE AT TEMPERATURES TO 3000 DEG C.
WADD-TR-61-72, VOL. 23 N64-18026 10-19

PRODUCTION OF LARGE DIAMETER FINE GRAIN GRAPHITE BY PRESSURE CURING
WADD-TR-61-72, VOL. 12 N64-18882 11-19

EFFECTS OF ISOSTATIC PRESSURE BAKING PROCESS ON GRAPHITIZED MATERIALS
AD-437661 N64-20080 13-19

REDUCTION CELL WITH GRAPHITE CRUCIBLE AND BORON NITRIDE LINER FOR REDUCTION OF ALUMINUM OXIDE
BM-RI-6265 N64-20506 13-17

PLASMA OSCILLATIONS OF CONDUCTION ELECTRONS AND HOLES OF PI-BAND IN GRAPHITE - QUANTUM MECHANICS
NUP-64-3 N64-20525 13-23

GRAPHITE IN LIQUID ALKALI METAL SYSTEMS N64-20795 14-19

FIELD EMISSION FROM SINGLE CRYSTALS OF GRAPHITE
ANL-6804 N64-20836 14-23

ELECTRON MICROSCOPE STUDY OF LAMELLAR COMPOUNDS OF

GRAPHITE WITH BROMINE, IODINE MONOCHLORIDE AND FERRIC CHLORIDE
EUR-542.E N64-21006 14-19

OPTIMUM EXPOSURE CONDITIONS FOR RADIOGRAPHIC DETECTION OF DEFECTS IN GRAPHITE
WADD-TR-61-72, VOL. XVII N64-21019 14-19

THERMOPHYSICAL PROPERTIES OF GRAPHITE TO HIGH TEMPERATURES - BULK DENSITY & RADIOGRAPHY, SAMPLE PREPARATION & INSTRUMENT CHECKOUT
AD-438206 N64-21322 14-19

MECHANICAL PROPERTIES OF GRAPHITE FOR USE IN STRESS ANALYSIS OF X-20 NOSE CAP GRAPHITE STRUCTURAL SHELL
REPT.-311.24 N64-22254 15-19

DETERMINING VELOCITY OF SOUND IN GRAPHITE
SSD-TDR-64-80 N64-22323 15-23

PRODUCTION PROBLEMS OF GRAPHITE CONTAINING REFRACTORY MATERIALS
FTD-TT-63-174/1&2 N64-22344 15-17

THERMOCONDUCTIVITY OF GRAPHITE AT HIGH TEMPERATURES AND TOTAL EMISSIVITY OF REFRACTORY METALS
ML-TDR-64-59 N64-22553 15-19

ELECTRIC PROPERTIES OF GRAPHITE AT HIGH TEMPERATURES
FTD-TT-62-1708/1&2 N64-22630 15-19

STRUCTURE OF SINGLE CRYSTAL GRAPHITE OBSERVED BY ELECTRON MICROSCOPY
AD-600760 N64-22720 15-19

INTENSITY PROFILE OF HIGH-ENERGY PROTON SCATTERING IN GRAPHITE, LEAD, COPPER, AND ALUMINUM
N64-22867 16-23

GRAPHITE HEATER FOR HIGH PRESSURE NITROGEN OPERATION
AFOSR-63-5440 N64-23137 16-19

FIBROUS CARBON & GRAPHITE AS INSULATORS
FTD-TT-63-330/1&2&4 N64-23300 16-19

ULTRAFINE GRAIN GRAPHITE MATERIALS FOR SPACE APPLICATIONS
WADD-TR-61-72, VOL. 38 N64-24184 16-19

GRAPHITE AS CORROSION RESISTANT MATERIAL FOR HANDLING HYDROGEN CHLORIDE GAS OR SOLUTIONS
N64-24272 17-18

VAPOR DEPOSITED GRAPHITE
WADD-TR-61-72, VOL. XXXVII N64-24874 17-18

THERMOSETTING CHARACTERISTICS OF BINDERS FOR GRAPHITE
WADD-TR-61-72, VOL. XXXII N64-24949 17-19

OXIDATION RESISTANT GRAPHITE BASE DEPOSITS
WADD TR-61-72 N64-25579 17-19

SPECTROGRAPHIC ANALYSIS OF SOLUTIONS ON CORED GRAPHITE - APPLICATION TO ZIRCONIUM-NIOBIUM ALLOY
ONERA-TN-76 N64-25607 17-18

KINETICS OF GRAPHITIZATION OF PETROLEUM COKE
JPL-TR-32-570 N64-25603 17-19

EROSION AND OXIDATION RESISTANT COATING FOR GRAPHITE
REPT.-5-RD-64 N64-26201 18-27

GRAPHITE MATERIALS - FINE-GRAIN ISOTROPIC GRAPHITE FOR STRUCTURAL AND SUBSTRATE APPLICATIONS
WADD-TR-61-72, VOL. XIII, SUPP N64-26233 18-18

HIGH TEMPERATURE RADIATION DAMAGE TO GRAPHITE
HW-80752 N64-26614 18-18

IMPREGNATION AND SUBSEQUENT HEAT TREATMENT OF GRAPHITE TO INCREASE STRENGTH AND DENSITY
WADD-TR-61-72, VOL. XXXI N64-26882 18-19

FILLER MATERIAL AND PRODUCT LENGTH EFFECTS ON LARGE DIAMETER FINE GRAIN GRAPHITE FOR AEROSPACE APPLICATIONS
WADD-TR-61-72, VOL. XII, SUPPL N64-26893 18-19

BONDING AND PYROLYSIS CHARACTERISTICS OF TWO SYNTHETIC BINDERS FOR GRAPHITE MATERIALS
WADD-TR-61-72, VOL. XL N64-26894 18-19

PHYSICAL PROPERTIES OF GRAPHITE MATERIALS
WADD-TR-61-72, VOL. XXVI N64-26948 18-18

GRAPHITE COMPOSITE MATERIALS FOR HEAT SHIELD OR ROCKET NOZZLE N64-27033 19-19

MULTIGROUP CROSS SECTIONS FOR BERYLLIUM OXIDE AND GRAPHITE-MODERATED SYSTEMS
UCRL-7827 N64-27035 19-23

FABRICATION AND PHYSICAL PROPERTIES OF CARBONIZED AND GRAPHITIZED CLOTH COMPOSITES
WADD-TR-61-72, VOL. IX N64-27334 19-19

STRESS-STRAIN AND THERMOCONDUCTIVITY MEASUREMENTS ON GRAPHITE CYLINDERS IN TENSION AND COMPRESSION
AD-441918 N64-27339 19-17

TANTALUM USED AS CARBON DIFFUSION BARRIER BETWEEN TUNGSTEN AND GRAPHITE
WRE-TN-CPD-54 N64-28061 20-18

PRODUCING LARGE HIGH-DENSITY GRAPHITE BILLETS BY HOT FORMING
WADD-TR-61-72, VOL. 7, SUPPL. N64-28159 20-17

METHOD FOR OBSERVING TRANSITION GROWTH OF GRAPHITE WHISKERS N64-28219 20-25

HIGH TEMPERATURE PROTECTIVE COATINGS TO CONTROL OXIDATION OF GRAPHITE
ML-TDR-64-173, PT. I N64-28570 20-17

BRAZING PROCESS FOR BONDING ZIRCALOY 2 CLADDING TO GRAPHITE MODERATOR USING COPPER AS BRAZING AGENT
NAA-SR-9604 N64-28674 20-17

MATERIAL BUCKLINGS OF CRITICAL AND SUBCRITICAL URANIUM CARBIDE FUELED GRAPHITE ASSEMBLIES
NAA-SR-9772 N64-28709 20-23

DIFFUSION OF NONVOLATILE METALLIC ELEMENTS IN GRAPHITE
UCRL-7324 N64-28738 20-25

GRAPHITE FOR STRUCTURAL AND SUBSTRATE MATERIAL
WADD-TR-61-72, VOL. XIII N64-29426 21-19

CHARACTERISTICS OF GRAPHITE-MODERATED GAS-COOLED REACTOR USING NATURAL URANIUM FUEL
N64-29711 21-23

HOT-WORKED RECRYSTALLIZED GRAPHITE MATERIALS
WADD-TR-61-72, VOL. XXXIII N64-29977 21-17

MECHANICAL PROPERTIES OF GRAPHITE
WADD-TR-61-72, VOL. XXXV N64-30545 22-33

COMPUTATION OF TRANSIENT TEMPERATURE IN SPHERICAL VOLUME CONTAINING CONTIGUOUS SPHERICAL GRAPHITE SHELLS HEATED BY CONDUCTION - NECKLACE PROGRAM
LA-3115-MS N64-30868 22-20

SUBLIMATION OF GRAPHITE AT HYPERSONIC SPEEDS
R64SD55 N64-31036 22-19

GRAPHITE SAMPLE SPECIFICATIONS FOR NUCLEAR REACTOR GRAPHITE BURNOUT MONITOR
HW-82436 N64-31269 22-19

ISOSTATIC PRESSURE BAKING FOR FABRICATING IMPROVED GRAPHITES
ML-TDR-64-175 N64-32203 23-17

ISOSTATIC PRESSURE BAKING PROCESS TO IMPROVE GRAPHITE MATERIALS
AD-447962 N64-32359 23-17

OXIDATION RATES AND ACTIVATION ENERGIES OF ALTERNATELY IRRADIATED AND ANNEALED GRAPHITES

BNL-7567-R2 N64-32370 23-07

ABLATION SENSORS FOR MEASURING POSITION AND MOVEMENT OF INTERNAL DEGRADATION ZONES IN PHENOLIC-GRAPHITE HEAT SHIELDS
SSD-TDR-64-173 N64-32525 23-15

GRAPHITE AS HIGH TEMPERATURE STRUCTURAL MATERIAL
AGARDOGRAPH-51 N64-33057 24-19

MECHANICAL PROPERTIES OF GRAPHITE AT HIGH TEMPERATURES
JPRS-27097 N64-33302 24-19

THERMAL NEUTRON SPECTRUM EFFECTS ON CALCULATIONS FOR GRAPHITE MODERATED LATTICES
NAA-SR-7892 N64-33588 24-23

GRATING
IMAGE CONSTRUCTION FOR CONCAVE GRATINGS AT GRAZING INCIDENCE BY RAY TRACING
NASA-RP-91 N64-12948 04-23

RULING TECHNIQUES IN PRODUCTION OF DIFFRACTION GRATINGS FOR VACUUM ULTRAVIOLET
AFCRL-64-398 N64-26923 18-15

TWO BEAM INTERFEROMETRIC INSTRUMENTATION FOR FAR INFRARED STUDIES - PERIODIC OPERATING LAMELLAR GRATING AND MICHELSON INTERFEROMETER
N64-29478 21-23

GRAVIMETER
SA DENSITOMETER
ACCELERATION-OF-GRAVITY MEASUREMENTS BY SUBMARINE GRAVIMETERS
JPRS-17587 N64-10700 02-23

GRAVIMETRY
GEOPHYSICAL EXPLORATIONS IN USSR - GRAVIMETRIC SURVEYS
JPRS-17412 N64-10474 01-12

ASTROGRAVIMETRIC LEVELING OF GEODETIC POINTS IN BOHEMIA AND MORAVIA
JPRS-18266 N64-10500 01-12

GRAVIMETRIC READINGS AT POTSDAM, BERLIN, PARIS & OTHER POINTS, AND THEIR RELATION TO GRAVITY FIELD AT WASHINGTON
AFCRL-63-710 N64-12635 04-12

GEODESY, GEODETIC ASTRONOMY, & GRAVIMETRY
N64-14200 06-12

TRIANGULATION, GEODETIC LEVELING & ASTRONOMY, AND GRAVIMETRY IN GREAT BRITAIN N64-14460 06-12

GRAVIMETRIC METHODS AND ABSOLUTE VALUES FOR ACCELERATION OF GRAVITY
MH-TRANS-342 N64-15244 07-12

DETERMINATION OF EARTH GRAVITATIONAL FIELD AND ANOMALIES BY GRAVIMETRY, SATELLITE ORBIT PERTURBATIONS, & ASTROGEODESY
NASA-RP-132 N64-15667 07-12

EARTH MEASUREMENT - HISTORY, TRIANGULATION, LEVEL GAUGE, ASTRONOMIC-GEODETIC SURVEYING, DETERMINING GEOID, AND GRAVIMETRY N64-16201 08-12

COMBUSTION-GRAVIMETRIC METHOD FOR MEASUREMENT OF TRACE AMOUNTS OF CARBON IN SODIUM METAL
LA-3035 N64-16934 09-07

GRAVIMETRIC DETERMINATION OF TRACE AMOUNTS OF HYDROGEN IN SODIUM METAL
LA-3049 N64-18003 10-07

SOLAR ECLIPSE EFFECT UPON PENDULUM PLANE OF OSCILLATION AND GRAVIMETER
FTD-TT-63-155/1 N64-19195 11-23

GRAVIMETRIC DETERMINATION OF NICKEL IN URANIUM ALLOYS WITH DIMETHYLGLYOXIME
LA-3088 N64-25715 17-18

GRAVIMETRIC DETERMINATION OF RHODIUM IN URANIUM-RHODIUM ALLOYS
LA-3097 N64-26616 18-18

PHYSICAL GEODESY - GRAVITY MEASUREMENTS AND MATERIALS, GRAVIMETRIC AND ASTRONOMIC MEASUREMENT, ASTROGEODETIC METHODS, GEOPOTENTIALS, AND EARTH CONSTANTS
AFCRL-64-566/II/ N64-30944 22-12

THERMAL DEGRADATION OF PYROMELLITIMIDE POLYMER IN AIR AND VACUUM BY THERMOGRAVIMETRY - RATES AND ACTIVATION ENERGIES
TG-529 N64-32099 23-07

THERMOGRAVIMETRIC STUDY OF PROTEIN HYDRATION
RSIC-260 N64-32494 23-07

GRAVITATION THEORY
EXPRESSION OF FUNCTION OF NEWTONIAN ATTRACTION OF TWO BODIES AS EXPANSION OF SIXFOLD INTEGRAL
N64-16194 08-20

CONVERGENCE IN EXPANSION OF FUNCTION OF NEWTONIAN ATTRACTION OF TWO BODIES N64-16195 08-20

INITIAL MEMBERS IN EXPANSION OF FUNCTION OF NEWTONIAN ATTRACTION OF TWO BODIES
N64-16197 08-20

EXPANSION OF FUNCTION OF NEWTONIAN ATTRACTION OF TWO BODIES FOR CERTAIN DENSITY DISTRIBUTIONS
N64-16198 08-20

EXPANSION OF FUNCTION OF NEWTONIAN ATTRACTION OF TWO BODIES WITH RESPECT TO MOMENTS OF INERTIA FOR NONMAJOR AND NONCENTRAL AXES OF INERTIA
N64-16199 08-20

PROBLEM OF SPACE AND TIME IN EINSTEIN GRAVITATION THEORY
D1-82-0312 N64-20406 13-23

SCHWARZSCHILD METRIC AND WHITEHEAD THEORY OF GRAVITATION
TR-1 N64-23106 16-23

MODIFIED GRAVITATION THEORY OF LOMONOLSOV & LESAGE
FTD-TT-64-323/1&2&4 N64-24326 17-23

RELATIONSHIP BETWEEN NEWTONIAN MOTION EQUATIONS AND HARMONIC COORDINATE CONDITIONS OF ZERO ORDER IN EINSTEIN GRAVITATION THEORY
FTD-TT-63-593/1&2&4 N64-29325 21-23

BIBLIOGRAPHY ON THEORY OF GRAVITATION
LAMS-3099 N64-30374 22-23

GRAVITATIONAL CONSTANT
GRAVIMETRIC METHODS AND ABSOLUTE VALUES FOR ACCELERATION OF GRAVITY
MH-TRANS-342 N64-15244 07-12

CURRENT VALUES AND INTERRELATIONSHIPS OF ASTRODYNAMIC CONSTANTS - HELIOCENTRIC, GEOCENTRIC, SELENOCENTRIC, AND PLANETOCENTRIC VALUES
AFCRL-63-705 N64-15813 07-29

GRAVITATIONAL EFFECT
SA WEIGHTLESSNESS
CEREBRAL HYPOXIA IN RESPONSE TO GRAVITY EFFECT WHILE BREATHING OXYGEN
JPRS-21984 N64-10388 01-16

NERVOUS RESPONSE OF MAN TO INCREASED GRAVITY AND SPACE FLIGHT CONDITIONS - MOBILITY IN PRENATALLY IRRADIATED DOGS
JPRS-17586 N64-11521 03-01

SENSORIMOTOR RESPONSE OF MAN IN EVALUATING WEIGHTS UNDER INCREASED GRAVITY OF ACCELERATION
N64-11523 03-14

GRAVITATIONAL EFFECT ON COORDINATION OF HUMAN BODY
N64-11709 03-14

COOLING SYSTEMS - GRAVITATIONAL EFFECTS & HEAT TRANSFER BY FREE OR NATURAL CONVECTION IN FLUIDS NEAR CRITICAL STATE
AD-426252 N64-13605 05-17

WALKING RESPONSES UNDER LUNAR AND LOW GRAVITY CONDITIONS
AMRL-TDR-63-112 N64-13873 05-14

ROTATION OF AND GRAVITATIONAL EFFECTS ON FLUIDIZED BED REACTORS
LAMS-3012 N64-17238 09-23

PHYSIOLOGICAL REACTIONS OF COSMONAUTS DURING THE ACTION OF GRAVITY LOADS AND WEIGHTLESSNESS
JPRS-23917 N64-17738 09-14

DETERMINATION OF BLOOD FLOW THROUGH INTACT VESSELS UNDER CONDITIONS OF GRAVITATIONAL STRESS AND IN EXTRATERRESTRIAL SPACE CAPSULES
NASA-CR-53302 N64-17766 09-16

SOLAR ECLIPSE EFFECT UPON PENDULUM PLANE OF OSCILLATION AND GRAVIMETER
FTD-TT-63-155/1 N64-19195 11-23

ORBITAL CALCULATION ERROR ANALYSIS - INERTIAL NAVIGATION COMPUTATION, FIRST ORDER ORBITAL ERROR ANALYSIS, AND SECOND ORDER GRAVITATIONAL EFFECTS
SMFD-2-1 N64-19861 12-29

EFFECTS OF UNUSUAL GRAVITATIONAL AND INERTIAL FORCE ENVIRONMENT ON VESTIBULAR AND VISUAL SYSTEMS
NASA-CR-56080 N64-20729 13-16

POOL BOILING & EFFECT OF REDUCED GRAVITY
APL-TDR-64-19 N64-22329 15-13

EARTH OBLATENESS AND SUN AND MOON GRAVITATION EFFECTS ON SATELLITE ORBIT PERTURBATIONS
RAE-TN-SPACE-52 N64-23268 16-29

SIMULATED LUNAR GRAVITY FOR TESTING MANNED LUNAR MISSION, SPACECRAFT, AND INSTRUMENTATION
NASA-RP-207 N64-23626 16-30

MEASUREMENT OF LUNAR GRAVITATIONAL FIELD FROM GRAVITY GRADIENT SATELLITE
DS-64-R531-35 N64-24132 16-29

EFFECTS OF ROTATION & GRAVITATION ON FLUID MEDIUM
AFCRL-64-382 N64-24678 17-21

STELLAR EVOLUTION & LIBERATION OF GRAVITATIONAL ENERGY FROM CHARGED PARTICLE COLLISION
NASA-TT-F-8688 N64-25123 17-05

GRAVITATIONAL ACCELERATION METHOD FOR SMOOTHING RANGE AND RANGE RATE TRACKING MEASUREMENTS
TN-0930-2 N64-25372 17-23

GRAVITATIONAL EFFECT ON CUPULA DISPLACEMENT
NASA-CR-56791 N64-27891 20-16

PERTURBATION EFFECTS ON SATELLITE ORBIT PARAMETERS DUE TO ZONAL GRAVITATIONAL HARMONICS
AFCRL-64-566/V/ N64-30947 22-29

REDUCED GRAVITY EFFECT ON NUCLEATE BOILING BUBBLE DYNAMICS IN SATURATED WATER
NASA-RP-320 N64-31210 22-13

OPTIMUM TRAJECTORIES FOR SPACECRAFT WITH ENGINES OF LIMITED PROPULSION OUTPUT TO AND FROM PLANET - GRAVITATIONAL EFFECTS N64-31527 23-30

TRAJECTORY COMPUTATION FOR SPACECRAFT WITH LIMITED POWER BETWEEN COPLANAR CIRCULAR ORBITS IN CENTRAL GRAVITATIONAL FIELD N64-31528 23-29

COMPLETE EXPRESSIONS FOR GRAVITATIONAL AND BUOYANCY FORCE TERMS IN MOTION EQUATIONS OF SUBMERGED BODY
DTMB-1845 N64-31832 23-11

GRAVITY AND RADIATION EFFECTS ON CELL GROWTH AND ULTRASTRUCTURE N64-33453 24-16

GRAVITATIONAL FIELD
ELASTIC MODELS OF EARTH MANTLE CORRESPONDING TO VARIATIONS IN EXTERNAL GRAVITY FIELD
NASA-RP-59 N64-10292 01-12

SECOND ORDER PERTURBATIONS IN GRAVITATIONAL FIELD
CORRELATION WITH HEAT FLOW DISTRIBUTION ON EARTH SURFACE
NASA-CR-52496 N64-10601 01-13

VERTICAL TORSION BALANCE FOR MEASURING GRAVITATION FIELD VERTICAL GRADIENT - GEOLOGICAL SURVEY N64-11498 03-23

MOMENT OF FORCES ACTING ON SATELLITE IN GRAVITY FIELD OF GEOID
MH-TRANS-458 N64-11576 03-29

STUDY OF BLOOD CIRCULATION OF BRAIN UNDER MODIFIED GRAVITATIONAL FIELD N64-11701 03-16

MORPHOLOGICAL & HISTOLOGICAL INVESTIGATION OF VESTIBULAR APPARATUS OF ANIMALS IN CHANGING GRAVITATIONAL FIELD N64-11862 03-16

GRAVIMETRIC READINGS AT POTSDAM, BERLIN, PARIS & OTHER POINTS, AND THEIR RELATION TO GRAVITY FIELD AT WASHINGTON
AFCRL-63-710 N64-12635 04-12

CLASSIFICATION OF SPACES SUPPORTING GRAVITATIONAL FIELDS
NASA-CR-53026 N64-13286 04-20

OPTIMUM RETRO-THRUST IN GRAVITATIONAL FIELD
AIAA PAPER-64-50 N64-14851 06-29

CONVECTION IN LOW INTENSITY GRAVITATIONAL FIELDS, AND SIMULATION WITH SIMILAR DENSITY LIQUIDS N64-15212 07-16

DETERMINATION OF EARTH GRAVITATIONAL FIELD AND ANOMALIES BY GRAVIMETRY, SATELLITE ORBIT PERTURBATIONS, & ASTROGEODESY
NASA-RP-132 N64-15667 07-12

DRIFT OF TWENTY-FOUR HOUR EQUATORIAL SATELLITE DUE TO EARTH GRAVITATIONAL FIELD THROUGH 4TH ORDER
NASA-TN-D-2103 N64-15907 07-29

NONLINEAR THEORY FOR SUPERCAVITATING FLOW PAST WEDGE IN LONGITUDINAL GRAVITY FIELD
AD-430045 N64-15945 07-02

NOMENCLATURE AND FORMS OF EARTH GRAVITY POTENTIAL
TDR-269/4550-10/-5 N64-16875 08-12

THERMODYNAMIC EQUILIBRIUM IN GRAVITATIONAL FIELD
MATT-221 N64-18339 10-23

METEOROID CONCENTRATION BY EARTH GRAVITATIONAL FIELD
P-2832 N64-19875 12-23

GEOPOTENTIAL FUNCTION OF EARTH GRAVITY FIELD AS GEODETIC REFERENCE SURFACE
NASA-CR-56078 N64-20640 13-12

OPTIMAL RETROTHRUST IN GRAVITATIONAL FIELD
REPT.-1 N64-20955 14-29

MOTION OF VARIABLE MASS SYSTEM WITH VARIABLE BUT LIMITED POWER EXPENDITURE IN GRAVITATIONAL FIELD
FTD-TT-63-973/1&4 N64-22178 15-20

SCHWARZSCHILD METRIC AND WHITEHEAD THEORY OF GRAVITATION
TR-1 N64-23106 16-23

GRAVITATIONAL STABILIZATION SYSTEM OF SATELLITE N64-23856 16-23

TRIAXIALITY OF EARTH FROM OBSERVATIONS ON DRIFT OF SYNCOM II SATELLITE - LONGITUDINAL DEPENDENCE OF EARTH GRAVITATIONAL FIELD
NASA-TM-X-55003 N64-23935 16-08

MEASUREMENT OF LUNAR GRAVITATIONAL FIELD FROM GRAVITY GRADIENT SATELLITE
DS-64-R531-35 N64-24132 16-29

EFFECTS OF TRANSVERSE GRAVITY FIELD IN SUPERCAVITATING FLOW PAST SLENDER WEDGE
TR-32 N64-27765 19-11

ELECTRON MICROSCOPIC EXAMINATION OF BACTERIAL CELLS SUBJECTED TO STRONG GRAVITATIONAL FIELDS
N64-28767 20-16

RADIO WAVE PROPAGATION STUDIES - RESEARCH IN IONOSPHERICS, EARTH GRAVITATIONAL FIELD, RADIO METEOROLOGY, MAGNETISM, IONOSONDE ROCKETS AND SATELLITES
N64-28768 20-08

EVOLUTION OF CIRCULAR ORBIT OF SATELLITE MOVING IN GRAVITATIONAL FIELD OF EARTH
N64-29077 21-29

SECULAR PERTURBATION OF GRAVITY FIELD BY CONVECTION CURRENTS IN EARTH OUTER CORE
N64-30467 22-12

EFFECT OF GRAVITATIONAL FIELD ON E SQUARED/MC
ARL-64-164 N64-30951 22-23

BOUGER AND ISOSTATIC METHODS FOR EVALUATING GRAVITATIONAL ANOMALIES ON EARTH SURFACE
AFCRL-64-576 N64-31991 23-12

SIMULATION OF LANDING DYNAMICS IN LUNAR AND PLANETARY GRAVITATIONAL FIELDS AND PERFORMANCE OF PILOT MODEL SIMULATOR
NASA-TN-D-2415 N64-32406 23-10

APPLICATION OF VON ZEIPEL METHOD TO SATELLITE ORBITING UNDER GRAVITATIONAL FIELD INFLUENCE AND PERTURBATIONS DUE TO EARTH OBLATENESS
NASA-TM-X-55095 N64-33625 24-23

GRAVITATIONAL POTENTIAL
OBLATE SPHEROIDAL METHOD FOR SATELLITE ORBITS - GRAVITATIONAL POTENTIAL & PERTURBING POTENTIAL
N64-10304 01-12

EFFECTS OF TESSERAL HARMONICS OF EARTH GRAVITY POTENTIAL ON CIRCULAR POLAR AND EQUATORIAL SATELLITE ORBITS
SSD-TDR-63-284 N64-15593 07-29

NOMENCLATURE AND FORMS OF EARTH GRAVITY POTENTIAL
TDR-269/4550-10/-5 N64-16875 08-12

DEVELOPMENT OF EARTH GRAVITATIONAL POTENTIAL FROM SIXTH THROUGH TWELFTH ZONAL HARMONIC
NASA-TM-X-51281 N64-17612 09-12

COEFFICIENTS OF EXPANSION OF EARTH GRAVITATIONAL POTENTIAL IN SPHERICAL HARMONICS
SSD-TDR-63-167 N64-22325 15-12

EQUATIONS OF MOTION OF ARTIFICIAL SATELLITES WITHIN GRAVITY POTENTIAL OF EARTH
ONERA-TN-111 N64-25850 18-29

GRAVITATIONAL POTENTIAL OF GALAXY
N64-28386 20-05

GRAVITY
PLUMBLINE DEFLECTION BY GRAVITY ANOMALIES
JPRS-21-648 N64-10202 01-12

SOVIET GEOPHYSICAL RESEARCH PAPERS ON GRAVITY VARIATIONS, EARTH CRUST STUDY, AND PLANETARY GEOPHYSICS
JPRS-21967 N64-10384 01-12

RUSSIAN ASTRONAUT LANDING SITE AND GRAVITATION STUDIES
JPRS-19490 N64-11351 02-01

STATISTICAL INTERPOLATION AND PREDICTION OF POINT GRAVITY ANOMALIES
N64-11395 02-12

GRAVITATIONAL STABILITY OF FILAMENTS IN GAS-DUST NEBULAE
MH-TRANS-421 N64-11628 03-05

EFFECTS OF UNCERTAINTIES IN SOME ZONAL HARMONICS OF EARTH GRAVITY POTENTIAL ON SATELLITE POSITION DETECTION
SSD-TDR-63-174 N64-12236 03-12

DETERMINATION OF FIGURE OF REGULARIZED GEOID EARTH BY ANOMALIES OF VERTICAL GRAVITY GRADIENT
N64-12800 04-12

DROPLET SEDIMENTATION IN CONTINUOUS FLOWING SYSTEM TO CONTROL ENZYME-SUBSTRATE REACTION BY DIFFUSION AND GRAVITY
N64-15211 07-16

INTERNATIONAL GEOPHYSICAL YEAR PAPERS ON SEISMOLOGY, TECTONIC MOVEMENTS, AND GRAVITY
AID-T-64-8 N64-16451 08-12

MEASUREMENT METHOD FOR STUDYING SECULAR VARIATIONS OF GRAVITY
N64-16457 08-12

GRAVITY SIMULATION TECHNIQUE FOR STUDIES OF SELF-LOCOMOTION IN LUNAR ENVIRONMENT
NASA-TN-D-2176 N64-16916 09-14

NEW ISOSTATIC REDUCTION TABLES FOR GRAVITY ANOMALIES CALCULATED ACCORDING TO AIRY THEORY
N64-17233 09-12

PROOF OF INVALIDITY FOR LORENTZ-COVARIANT GRAVITATIONAL LAW - MOTION EQUATIONS
TR-2 N64-17316 09-23

PASSIVE GRAVITATIONAL ATTITUDE CONTROL SYSTEM FOR SATELLITE WHICH REQUIRES NO FUEL
N64-17556 09-30

EFFECT OF MOON TRIAXIAL POTENTIAL & ATTRACTION OF EARTH, SUN, AND PLANTETS ON STABILITY OF LUNAR SATELLITES
NASA-CR-55973 N64-17680 09-29

SOLAR SYSTEM FORMATION FROM INTERACTION BETWEEN GRAVITATIONAL & ELECTROMAGNETIC FORCES
N64-19331 12-05

GRAVITY MEASUREMENTS - POINT & PROFILE MEASUREMENT OF DIFFERENT DENSITY GEOID UNDULATIONS & DEFLECTIONS OF VERTICAL
REPT.-38 N64-21716 15-12

ADAPTATION REACTIONS AND PATHOLOGICAL STUDIES OF ORGANISM EXPOSED TO HARMFUL STIMULI
N64-23465 16-16

MINIMUM ARTIFICIAL GRAVITY NEEDED TO PREVENT EFFECTS OF WEIGHTLESSNESS ON VESTIBULAR APPARATUS
N64-23750 16-16

HISTOPHYSIOLOGICAL CHANGES IN TISSUES AND INTERNAL ORGANS OF EXPERIMENTAL ANIMALS UNDER G-FORCES
N64-23764 16-16

BIOELECTRIC ACTIVITY OF CEREBRAL CENTERS UNDER INFLUENCE OF G-FORCES N64-23765 16-16

LONG-LASTING TRANSVERSE G-FORCE EFFECT ON CENTRAL NERVOUS SYSTEM OF ANIMALS N64-23766 16-16

REACTIONS OF VASCULAR SYSTEM OF CRANIAL CAVITY DURING LONGITUDINAL G-LOADS N64-23770 16-16

FORCES ACTING ON BUBBLES IN NUCLEATE BOILING UNDER NORMAL AND REDUCED GRAVITY CONDITIONS
NASA-TN-D-2299 N64-26413 18-23

RELATIONSHIP BETWEEN GROWTH AND GRAVITY IN BACTERIA - ESCHERICHIA COLI N64-28649 20-16

GRAVITY WAVE PROPAGATION DUE TO TWO-DIMENSIONAL POINT DISTURBANCE IN SURFACE FLOW OF STRATIFIED FLUID
REPT.-97-5 N64-29318 21-11

PHYSICAL GEODESY - GRAVITY MEASUREMENTS AND MATERIALS, GRAVIMETRIC AND ASTRONOMIC MEASUREMENT, ASTROGEODETIC METHODS, GEOPOTENTIALS, AND EARTH CONSTANTS
AFCRL-64-566/II/ N64-30944 22-12

ACCURACY OF SPHERICAL HARMONICS COMPUTED FROM GRAVITY ANOMALIES AND ACCURACY OF USING GRAVITY MEASUREMENTS FOR ORBIT PREDICTION
AFCRL-64-566/VI/ N64-30948 22-12

COMPARISON OF SPECIFIC GRAVITY OF TEKTITES FROM AUSTRALIA, ASIA, TEXAS, AND CZECHOSLOVAKIA

NASA-RP-299 N64-31002 22-12

DIGITAL COMPUTER PROGRAM FOR PREDICTION OF POINT AND MEAN GRAVITY ANOMALIES
AFCRL-64-575 N64-31828 23-12

THEORETICAL MODELS OF TERMINAL STAGES OF STELLAR EVOLUTION WHERE GRAVITATIONAL RADIATION MAY BE DOMINANT
NASA-CR-58984 N64-33188 24-23

GRAVITATIONAL RADIATION FROM ROTATING BINARY MASS SYSTEMS
NASA-CR-59249 N64-33291 24-23

EVOLUTION OF O STARS - HYDROGEN EXHAUSTION AND GRAVITATIONAL CONTRACTION
NASA-RP-352 N64-33989 24-29

GRAVITY CENTER
LOCATION OF CENTER OF GRAVITY IN HUMAN BODY
N64-24340 17-16

GRAVITY GRADIENT SATELLITE
GRAVITY GRADIENT EXCITATION OF ROTATING CABLE-COUNTERWEIGHT ORBITING SPACE STATION - LAGRANGE EQUATIONS OF MOTION
TDR-169/3530-20/-TN-1 N64-11180 02-30

INERTIAL COUPLING IN GRAVITY GRADIENT STABILIZED SATELLITES
AIAA PAPER-63-342 N64-23903 16-32

MEASUREMENT OF LUNAR GRAVITATIONAL FIELD FROM GRAVITY GRADIENT SATELLITE
DS-64-R531-35 N64-24132 16-29

PASSIVE ATTITUDE STABILIZATION OF SATELLITES BY GRAVITATIONAL GRADIENT TORQUES
NASA-CR-56541 N64-24161 16-32

TORSION DAMPING CAPACITY OF THIN WIRE AND USE IN DAMPING LIBRATION OF GRAVITY GRADIENT SATELLITE
CR-1039 N64-26624 18-23

TRANSLATIONAL AND ROTATIONAL EQUATIONS OF MOTION FOR GRAVITY GRADIENT STABILIZED SATELLITE
TDR-269/4540-70/-2 N64-29797 21-29

EXPLOITATION OF INERTIAL COUPLING IN PASSIVE GRAVITY-GRADIENT-STABILIZED SATELLITES
NASA-RP-339 N64-31216 22-30

GRAVITY WAVE
GRAVITATIONAL WAVES IN STARS
NASA-CR-55493 N64-15552 07-23

TURBULENCE, DIFFUSION, AND GRAVITY WAVES IN TRANSITION REGION BETWEEN STRATOSPHERE AND IONOSPHERE
P-2774 N64-16249 08-12

CORRECTION TO REPORT ON ATMOSPHERIC GRAVITY WAVES AT IONOSPHERIC ALTITUDES
NASA-CR-53839 N64-20737 13-12

ATMOSPHERIC GRAVITY WAVE N64-24470 17-21

GRAVITY MODES ON ROTATING SHALLOW LAYER OF LIQUID IN CIRCULAR CYLINDER WITH PARABOLOID BOTTOM
N64-24679 17-20

FREQUENCY OF FINITE-AMPLITUDE AXISYMMETRIC GRAVITY WAVES IN CIRCULAR CYLINDER N64-24680 17-20

GRAVITATIONAL WAVES & SUPERSTARS
NASA-TT-F-8913 N64-25620 17-05

THEORY OF RELATIVITY APPLIED TO SUPERSTARS AND GRAVITATIONAL WAVE COLLAPSE
JPRS-25399 N64-25707 17-29

EMISSION OF GRAVITATIONAL WAVES BY BODIES MOVING IN COLLAPSING STAR FIELD
NASA-TT-F-8914 N64-25788 17-29

THREE-DIMENSIONAL GRAVITY WAVES, SEICHES GENERATION IN RECTANGULAR TANK, AND SUBHARMONIC PROPAGATION N64-26572 18-11

UPPER ATMOSPHERE WIND SHEAR ANALYSIS BY GRAVITY WAVE SCALING APPLIED TO FIREFLY PROJECT DATA
N64-31397 23-12

HYDRODYNAMIC EQUATIONS FOR HORIZONTAL WIND EFFECTS ON DISPERSION AND AMPLITUDE OF ATMOSPHERIC ACOUSTI GRAVITY WAVES
RAD-TR-64-33 N64-33930 24-23

GREASE
CF LUBRICANT
LITHIUM GREASES STABILIZED WITH ALUMINUM SILICONATES OR DIPHENYLESTER OF METHYLPHOSPHINIC ACID
FTD-TT-63-604/1 N64-12056 03-19

LUBRICANT GREASES NONREACTIVE WITH MISSILE FUELS AND OXIDIZERS
FA-A63-10 N64-12705 04-26

CHEMICAL ANALYSIS FOR SOAP CONTENT OF GREASE
RIA-64-2363 N64-32572 23-07

GREAT BRITAIN
MISSILE RANGES IN GREAT BRITAIN AND AUSTRALIA
N64-22874 16-10

GREEN FUNCTION
CALCULATION OF INTERSTITIAL ATOM MOBILITY USING TEMPERATURE DEPENDENT GREEN FUNCTION
NIJS-R-412 N64-11365 02-25

GENERALIZED GREEN THEOREM & GREEN FUNCTIONS APPLICABLE TO NONEQUILIBRIUM EQUATION FOR FREE STREAM ANALYSIS
COA-AERO-163 N64-11387 02-11

DYADIC GREEN FUNCTION FOR RADIALLY INHOMOGENEOUS SPHERICAL DIELECTRIC MEDIUM
USEC 82-212 N64-11460 03-20

GREEN FUNCTION FOR ELECTROMAGNETIC WAVES IN ANISOTROPIC MEDIUM - ANTENNA THEORY
NASA-CR-55102 N64-12396 03-08

TWO-DIMENSIONAL GREEN FUNCTION FOR SCALAR WAVE EQUATION OF PARALLEL-WALL WAVEGUIDE
NASA-CR-55653 N64-15542 07-20

LOWER BOUNDS ON LEHMANN WEIGHTS OF GREEN FUNCTIONS IN MESON THEORY
UR-875-20 N64-16561 08-23

GREEN FUNCTION METHOD FOR QUASI-PARTICLE LIFETIMES AND QUANTUM THEORY OF DOMAIN WALL MOTION
TR-186 AND 187 N64-19426 12-23

EXTENSION OF GREEN FUNCTION METHOD TO STUDY OF FERROMAGNETIC CURIE TEMPERATURE IN CUBIC LATTICES WITH NEXT NEAREST NEIGHBOR INTERACTION
TR-13 N64-20146 13-25

USE OF GREEN FUNCTION TO DETERMINE ELECTRIC FIELD DISTRIBUTION OF CONDUCTOR ABOVE SUPERCONDUCTING GROUND PLANE
NASA-RP-107 N64-22067 15-25

PROPAGATORS OF QUANTUM FIELD THEORIES AS GREEN FUNCTIONS FOR BOUNDARY VALUE PROBLEMS IN PARTIAL DIFFERENTIAL EQUATIONS
NRL-6028 N64-28274 20-23

TENSOR GREEN FUNCTION OF RECTANGULAR WAVEGUIDE AND CAVITY N64-29459 21-09

GREEN FUNCTION FOR BOUNDARY VALUE PROBLEMS IN HEAT CONDUCTION EQUATION
NASA-TT-F-9087 N64-31333 22-23

WAVE EQUATION & GREEN FUNCTION FOR ELECTRIC FIELD IN MOVING MEDIUM - PHASE VELOCITY OF DIPOLE
NASA-CR-59185 N64-33163 24-23

USE OF GREEN FUNCTION TO NUMERICALLY SOLVE PERTURBED HARMONIC OSCILLATOR EQUATION AND HARTREE-FOCK MANY-ELECTRON ATOM EQUATIONS
GSP/PHYS/64-9 N64-33831 24-23

GREENHOUSE EFFECT
GREENHOUSE EFFECT OF ARCTIC ATMOSPHERE
AFCRL-64-495 N64-27531 19-21

GREENLAND
ELEVATIONS ON ICE SHEET OF SOUTHERN GREENLAND
AD-430062 N64-16507 08-12

VERTICAL PROPAGATION OF PRESSURE CHANGES AND DIURNAL VARIATION OF SURFACE WIND IN GREENLAND
IR-2 N64-32593 23-21

GRENADE
GRENADE-EXPLODING ROCKET SONDE FOR MEASURING TEMPERATURE AND WIND UP TO 90 KILOMETERS ALTITUDE
NASA-TN-D-2107 N64-16317 08-23

TEMPERATURE, PRESSURE, DENSITY, AND WIND MEASUREMENTS FROM RECORDED EXPLOSION TIMES AND SOUND ARRIVALS DURING ROCKET GRENADE EXPERIMENTS
NASA-TR-R-211 N64-31451 23-21

GRENADE DETONATION ACOUSTIC WAVE PROPAGATION IN UPPER ATMOSPHERE N64-32255 23-12

GRID
SA GRATING
SA LATTICE
SA MATRIX
STATIC & DYNAMIC ANODE-GRID CHARACTERISTICS OF VACUUM TUBE AT LARGE VOLTAGE AMPLITUDES N64-12740 04-09

CHEMICALLY MILLED WAFFLE GRID BERYLLIUM STRUCTURAL PANEL FOR AEROSPACE APPLICATION
ERR-FW-135 N64-13119 04-18

OPERATING AND MAINTENANCE INSTRUCTIONS FOR STANFORD RESEARCH INSTITUTE GRID MIXER
NASA-CR-55900 N64-16704 08-09

SOLUTION OF HEAT CONDUCTION PROBLEMS BY GRID METHOD
NASA-TT-F-151 N64-17995 10-13

STRESS ANALYSIS OF RECTANGULAR GRID OF PERPENDICULAR STRUCTURAL BEAMS SIMPLY SUPPORTED AT ENDS UNDER BENDING, SHEARING, AND TORSION
ORNL-3535 N64-18415 10-33

GRIDS FOR REDUCING SCATTERED X-RAYS IN MEDICAL RADIOGRAPHY N64-23275 16-16

MATHEMATICAL PROBLEMS IN CREATING DIGITAL GRID ANALYZER
FTD-TT-62-1823/1&2 N64-25756 17-20

PLASMA NONUNIFORMITY EFFECTS ON GRID EROSION IN ELECTRON BOMBARDMENT ION ENGINE
AIAA PAPER-64-688 N64-28363 20-27

TANDEM GRID IN SINGLE STAGE AXIAL BLOWER
RSIC-276 N64-32498 23-02

DESIGN OF HIGH POWER GRID CONTROLLED SECONDARY ELECTRON EMISSION TUBE
AD-449765 N64-32650 23-09

CERAMIC-METAL THYRATRON DESIGN STUDIES - THICK GRADIENT GRID DESIGN FOR OIL IMMERSION OPERATION
REPT.-2 N64-33822 24-09

GRIFFITH FRACTURE THEORY
CF METAL FATIGUE
MOVING GRIFFITH CRACK OF UNVARYING SHAPE - PROPAGATING TENSILE FRACTURE AS STEADY STATE DYNAMIC MIXED BOUNDARY VALUE PROBLEM
NASA-CR-53181 N64-17583 09-33

GRINDING
CF ABRASION
GRINDING OUT POCKETS IN SOLID BLOCKS OF GLASS TO PRODUCE LIGHTWEIGHT RIBBED STRUCTURES FOR MIRROR BLANKS
NASA-CR-53881 N64-19956 12-17

GROOVE
SPIRAL GROOVE GAS LUBRICATED THRUST BEARINGS
RR-64-1 N64-18116 10-17

THERMAL RADIATION ABSORPTION IN RECTANGULAR GROOVE CAVITIES
ASME PAPER-62-WA-52 N64-19255 11-23

END-CUTTERS AND TECHNIQUES FOR CUTTING GROOVES N64-31875 23-17

GROUND
CF EARTH
TURBULENT EXCHANGE IN GROUND LAYER DURING WINTER IN PEKING - AUSTAUSCH COEFFICIENT AND HEAT FLUX TRANSFER
E-T-CH-63-7 N64-13861 05-12

FUEL CELLS FOR LOW POWER GROUND APPLICATIONS N64-17399 09-04

GROUND AMPLITUDES PRODUCED BY SMALL SURFACE EXPLOSIONS N64-19480 12-12

WATER PERMEABILITY OF FROZEN GROUND
FTD-TT-63-928/1&2 N64-21959 15-12

GROUNDING SYSTEMS FOR ELECTRONIC EQUIPMENT HOUSING N64-22816 16-09

RADAR REFLECTION PROPERTIES OF BAFFLES AND FENCES FOR SUPPRESSION OF GROUND REFLECTED SIGNAL N64-24290 17-08

FACTORS AFFECTING ACCURACY OF GROUND PLANE MEASUREMENTS N64-24715 17-08

GROUND MOTION IN ELASTIC REGION CAUSED BY ENERGY DELIVERED DIRECTLY TO GROUND BY NUCLEAR EXPLOSION
RTD-TDR-63-3125 N64-25645 17-23

PROPULSION SYSTEM, GROUND RESONANCE AND STRUCTURE STATIC TESTING FOR XV-5A AIRCRAFT
QTPR-8 N64-26656 18-04

EFFECTS OF THERMAL STRATIFICATION & WIND VELOCITY ON WIND PROFILE IN GROUND LAYER
E-T-CH-63-6 N64-32131 23-21

LASERS IN SPACE, ON GROUND, AND UNDERWATER
JPRS-27167 N64-33346 24-23

EQUALIZATION OF REPRODUCING AMPLIFIERS AND TESTING OF GROUND AND AIRBORNE EQUIPMENT FOR WIDEBAND RECORDER SYSTEM
CLO-1600 N64-33772 24-08

GROUND EFFECT
SA LIFT
SA WAKE
GROUND EFFECTS ASSOCIATED WITH VERTICAL TAKEOFF AND LANDING AIRCRAFT
AGARD-409 N64-10133 01-04

EXPERIMENTS ON JET-FLAP DELTA WING IN GROUND EFFECT
COA-AERO-164 N64-11595 03-03

VISCOUS EFFECTS ON BALANCED JETS IN GROUND PROXIMITY
TRECOM-TR-63-59 N64-13835 05-02

INDUCED FLOW IN AND BEHIND TWO-DIMENSIONAL JET SHEETS BOUNDING CAVITY - GROUND EFFECT PHENOMENON
UTIA-94 N64-15801 07-11

RHEOELECTRIC SIMULATION METHOD FOR MEASURING EFFECTS OF GROUND PROXIMITY ON WINGS
DTMB-AERO-1068 N64-20420 13-03

WIND TUNNEL INVESTIGATION OF SINGLE AND TANDEM LOW ASPECT RATIO WINGS IN GROUND EFFECT
REPT. 16906 N64-21075 14-03

DIPOLE ANTENNA INPUT IMPEDANCE CHANGE DUE TO GROUND EFFECT
NBS-MONOGRAPH-72 N64-21211 14-08

GROUND PROXIMITY EFFECT ON PERFORMANCE OF POWERED LIFT VEHICLES WITH VTOL CONFIGURATIONS
TCEA-TN-14 N64-25031 17-04

AERODYNAMIC CHARACTERISTICS OF FAN-IN-WING VTOL

AIRCRAFT MODEL - GROUND EFFECT WITH NOSE FAN PITCH CONTROL
NASA-TN-D-2368 N64-28323 20-04

HIGH FORWARD SPEED EFFECTS ON TWO-DIMENSIONAL GROUND EFFECT SUPPORT MODEL - AIR CUSHION VEHICLE
N64-30403 22-10

INLET TEMPERATURE RISE & LIFT-FORCE OF JET-ENGINE POWERED VTOL AIRCRAFT IN GROUND EFFECT
REPT.-2099-928002 N64-32551 23-04

AERODYNAMIC CHARACTERISTICS OF SELF-PROPELLED MODEL OF AIR CUSHION VEHICLE IN HOVERING FLIGHT - GROUND EFFECT TAKEOFF AND LANDING /GETOL/ MODEL
UTIASTN-74 N64-33650 24-02

GROUND EFFECT MACHINE
SA AIR CUSHION VEHICLE
SA FLYING PLATFORM
CF AIRCRAFT
ANNULAR NOZZLE TYPE GROUND EFFECT MACHINE OPERATIONS OVER WATER - SURFACE CONFIGURATION
IER SER. 187, ISSUE 3 N64-12919 04-04

ANNULAR NOZZLE TYPE GROUND EFFECT MACHINE OPERATIONS OVER WATER - WAVE EFFECTS
IER SER. 187, ISS. 7 N64-12932 04-04

FLOW FIELD BENEATH TWO-DIMENSIONAL GROUND EFFECT MACHINE, & IN VICINITY OF PERIPHERAL JETS FOR VARIOUS NOZZLE HEIGHTS
TRECOM-TR-63-61 N64-13303 04-03

VISCOUS & FORWARD SPEED EFFECTS ON UNBALANCED AIR JETS IN GROUND PROXIMITY - GROUND EFFECT MACHINE
TRECOM-TR-63-60 N64-14008 05-04

GROUND EFFECTS MACHINE TO PROVIDE SUSPENSION AND PROPULSION OF VEHICLES AT HIGH FORWARD SPEEDS
AROD-2566-6 N64-16851 08-04

HYPERSONIC AND SUPERSONIC WIND TUNNELS, GROUND EFFECT MACHINE, AND V/STOL MODEL TESTS
N64-17013 09-01

FLEXIBLE JET EXTENSION FOR GROUND EFFECT MACHINES
REPT. 2131-920002 N64-17451 09-04

PERFORMANCE AND STABILITY OF WINGED GROUND EFFECT MACHINES
TRECOM-TR-63-36 N64-18043 10-04

PERIPHERAL FANS APPLIED TO GROUND EFFECT MACHINE
FROST REPT.-142-18 N64-21077 14-04

STATIC PERFORMANCE OF ASPECT RATIO 2/3 PERIPHERAL JET GROUND EFFECT MACHINE
TR-011-5 N64-21369 14-04

VORTEX RECIRCULATION LIFT FOR GROUND EFFECT MACHINES
VRC-17 N64-21473 14-04

EXPERIMENTAL MEASUREMENTS OF PITCH AND HEAVE AMPLITUDES OF GROUND EFFECT MACHINE DURING FLIGHT OVER REGULAR FOLLOWING WAVES
DTMB-AERO-1074 N64-31663 23-11

FLEXIBLE INFLATED SKIRT FOR GROUND EFFECT MACHINE
TRECOM-TR-64-18 N64-31903 23-04

GROUND SPEED
CF AIRSPEED
CF VELOCITY
GROUND VELOCITY AND DRIFT ANGLE MEASUREMENTS BY AIRBORNE DOPPLER RADAR N64-15146 07-08

GROUND STATE
CF ENERGY LEVEL
HELIUM-3 NEUTRON GROUND STATE REACTION ON CARBON-12 AND 13 INCLUDING ANGULAR DISTRIBUTIONS AND EXCITATION CURVES
URPA-7 N64-10192 01-23

GROUND STATE ENERGY & STABILITY OF DEGENERATE ELECTRON GAS
NUP-63-17 N64-14071 05-23

UPPER AND LOWER BOUNDS FOR GROUND-STATE SECOND-ORDER PERTURBATION ENERGY N64-18147 10-23

SPLITTING OF FLUORESCENCE SPECTROSCOPIC GROUND STATES IN ORIENTAL RUBY N64-23004 16-25

ABSORPTION SPECTRUM AND DISSOCIATION ENERGY OF GASEOUS CHLORINE FLUORIDE IN GROUND STATE
RSIC-183 N64-25220 17-07

CONFIGURATION INTERACTION EFFECTS ON ENERGY OF GROUND STATE OF BERYLLIUM ISOELECTRONIC SERIES
T-R-405 N64-28798 20-23

SELF CONSISTENT FIELD CALCULATIONS OF GROUND, IONIZED, AND EXCITED STATES OF NITROGEN AND OXYGEN
NASA-CR-58343 N64-28990 20-23

CHEMICAL ACTIVATION - ACTIVATED MOLECULES IN ELECTRONIC LEVELS OF EXCITED AND GROUND STATES
TR-1 N64-29545 21-07

GROUND STATE OF INTERACTING ELECTRON GAS IN EXTERNAL POTENTIAL
TR-23 N64-29712 21-11

EFFECTIVE RADIUS OF CESIUM IN GROUND STATE AND EXCITED STATE
NASA-TM-X-52057 N64-30048 21-23

SELF-CONSISTENT FIELD CALCULATIONS BY EXPANSION METHOD FOR GROUND STATES OF NEUTRAL AND SINGLY CHARGED MOLYBDENUM ATOMS N64-30312 22-23

GROUND STATION
TELSTAR SATELLITE DESIGN, CONSTRUCTION, GROUND FACILITIES, AND USES
NASA-SP-32, VOL. 1 N64-10868 02-01

TELSTAR SYSTEM - AN ACTIVE COMMUNICATIONS SATELLITE AND ITS GROUND FACILITIES
N64-10871 02-32

CONICAL HORN-REFLECTOR ANTENNA FOR SATELLITE COMMUNICATIONS GROUND STATION N64-10884 02-08

ANTENNA POINTING SYSTEM FOR SATELLITE GROUND STATION AT ANDOVER, MAINE - PENCIL BEAM FORMATION
N64-10885 02-08

PLANNING, OPERATION, AND EXTERNAL COMMUNICATIONS OF ANDOVER GROUND STATION N64-10891 02-10

HOLMDEL GROUND STATION PARTICIPATION IN TELSTAR SATELLITE PROJECT N64-10892 02-10

COMMUNICATIONS TESTING OF TELSTAR SATELLITE AT ANDOVER GROUND STATION N64-10896 02-08

GROUND STATION HIGH-POWER TRAVELING-WAVE TUBE - TELSTAR SATELLITE COMMUNICATIONS
N64-11087 02-09

TRAVELING WAVE MASER FOR SATELLITE COMMUNICATION GROUND STATION RECEIVER - TELSTAR SATELLITE
N64-11089 02-09

AUTOMATIC RADAR GROUND STATION FOR MEASURING COORDINATES OF GROUND TARGETS
JPRS-22384 N64-11919 03-06

MAGNETIC TAPE FOR SATURN LAUNCH VEHICLE GROUND STATION COMPUTER SYSTEM
NASA-CR-52633 N64-13065 04-09

SYSTEM ORIENTED, PULSE CODE MODULATED, GROUND STATION INCORPORATING DATA COMPRESSION
N64-16167 08-08

BASIC GROUND STATION ANTENNA SURVEY
SSD-TDR-63-334, VOL. 5 N64-16587 08-09

GROUND BASED SOLAR PHOTOVOLTAIC ENERGY CONVERTERS
N64-17379 09-06

HIGH POWER PETROLEUM FUEL CELL SYSTEMS FOR MILITARY GROUND STATION APPLICATIONS
N64-17400 09-08

SATELLITE ORBIT CALCULATION USING PROPAGATION DELAY FROM GROUND TRACKING STATION
N64-18229 10-23

SATELLITE COMMUNICATIONS - PROPAGATION, ANTENNA AND RECEIVER FACTORS, COMPUTER USE, AND GROUND STATION SITING
DRTE-1122 N64-18241 10-08

SATELLITE COMMUNICATIONS - PROPAGATION, ANTENNA AND RECEIVER FACTORS, COMPUTER USE, AND GROUND STATION SITING N64-18242 10-09

ANTENNA SELECTION FOR SATELLITE COMMUNICATIONS GROUND STATIONS N64-18244 10-09

LOW NOISE RECEIVING SYSTEMS FOR SATELLITE COMMUNICATIONS GROUND STATIONS N64-18245 10-08

COMPUTER SPECIFICATIONS FOR USE IN ANTENNA CONTROL AND DATA PROCESSING AT SATELLITE COMMUNICATIONS SYSTEM GROUND STATIONS N64-18246 10-20

SITING GROUND TERMINALS FOR SATELLITE COMMUNICATIONS SYSTEMS N64-18247 10-10

AUTOMATIC PICTURE TRANSMISSION GROUND STATION FOR REPRODUCTION OF TELEVISION PICTURES FROM METEOROLOGICAL SATELLITE
NASA-CR-53594 N64-18508 10-10

SHORT ARC CALIBRATION OF DOPPLER RADAR SATELLITE OBSERVATIONS TO OBTAIN GROUND STATION GEODETIC COORDINATES
NWL-1908 N64-18889 11-12

FORMATION OF GLOBAL SURVEILLANCE AND COMMUNICATION NETS OF SATELLITES AND GROUND STATIONS
TDR-269/4513-10/-5 N64-19821 12-08

TELEMETRY PERFORMANCE TEST FOR MISSILE TECHNICIANS MAINTAINING GROUND STATION EQUIPMENT
ND-64-36 N64-21220 14-14

PROFICIENCY TEST FOR TECHNICIANS MAINTAINING TELEMETERING GROUND STATION EQUIPMENT - OPERATOR PERFORMANCE
ND-64-37 N64-21373 14-14

UPPER ATMOSPHERIC ROCKET RESEARCH AND DESCRIPTION OF TELEMETRY GROUND STATIONS
AFCRL-64-195 N64-21720 15-08

ULTRASONIC WAVE & MICROWAVE RADIO COMMUNICATION TRANSMITTER SITE SELECTED BY LIGHT ILLUMINATION AND DIFFRACTION ON EARTH SHAPE
FTD-TT-64-30/1&2 N64-22158 15-08

LINK FROM COMMUNICATIONS SATELLITE TO SMALL GROUND STATION
P-2884 N64-28682 20-08

EARTH-TO-SPACE VISUAL CONTRAST TRANSMITTANCE MEASUREMENTS FROM GROUND STATION
SIO-REF.-63-2 N64-30809 22-12

MODULATION, ANTENNA, ACQUISITION AND TRACKING, AND LOW-NOISE RECEIVING SYSTEMS FOR TRANSPORTABLE GROUND STATION IN SPACE COMMUNICATION SYSTEM
REPT.-64-15 N64-31427 23-10

TRANSMITTING AND RECEIVING EQUIPMENT FOR SYNCOM GROUND STATION
SYN-52-07-01, VOL. 1 N64-33073 24-08

AMPLIFIER PUMP SOURCE UNIT OF ANTENNA SYSTEM FOR SATELLITE COMMUNICATIONS TRANSPORTABLE GROUND TERMINAL
SYN-52-07-01, VOL. 2 N64-33641 24-08

GROUND SUPPORT SYSTEM
SIMULATION SYSTEM FOR GROUND OPERATIONAL SUPPORT OF MANNED SPACE FLIGHT N64-12882 04-10

CHASSIS FOR GROUND SUPPORT EQUIPMENT - ELECTRONIC PACKAGING
NASA-CR-53015 N64-13265 04-17

SAFETY ASPECTS OF CIVIL AIRCRAFT LANDING OPERATIONS - ANALYSIS OF GROUND AND AIRCRAFT INSTRUMENT LANDING EQUIPMENT N64-14725 06-10

GROUND SUPPORT EQUIPMENT IN AREAS OF STORAGE, TRANSPORTATION, PACKAGING, AND PRESERVATION
AID-P-63-120 N64-14839 06-10

SPECIFICATION OF MATERIALS FOR LOW LEVEL ELECTRICAL CONTACTS - SPACE VEHICLE AND GROUND SUPPORT EQUIPMENT
NASA-CR-53901 N64-19901 12-09

MISSION AND OPERATION OF AIR FORCE FLIGHT TEST CENTER GROUND SUPPORT AND TEST FACILITY SYSTEMS
FTC-TIH-63-2003 N64-20151 13-10

NOISE LEVEL MEASUREMENTS OF GROUND SUPPORT EQUIPMENT AT ATLAS AND TITAN I FACILITIES
AMRL-TDR-64-31 N64-24155 16-10

AEROSPACE GROUND EQUIPMENT OF X-20A AIRCRAFT COMMUNICATIONS AND TRACKING SUBSYSTEM
CR-64-408-34.4-1 N64-25748 17-08

CONFIRMATION OF LOGIC CIRCUITS OF AEROSPACE GROUND EQUIPMENT /AGE/ N64-25963 18-08

ELECTRONIC AND MECHANICAL INTERFACE PROBLEMS ASSOCIATED WITH SYSTEM INTEGRATION AND GROUND SUPPORT OF AN/TSQ-47 AIR TRAFFIC CONTROL SYSTEM
ESD-TDR-64-199 N64-29374 21-10

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINE, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-19 N64-31577 23-7

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-20 N64-31578 23-7

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-21 N64-31579 23-7

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-22 N64-31580 23-7

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT SYSTEM, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-23 N64-31581 23-7

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT SYSTEM, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-24 N64-31582 23-7

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT SYSTEM, ROCKET ENGINES, AND PILOT SAFETY
REPT.-393-01M-26 N64-31583 23-7

APOLLO LOGISTICS SUPPORT SYSTEMS MOBILE LABORATORY STUDIES - GROUND WAVE PROPAGATION ON LUNAR SURFACE
NASA-CR-61014 N64-31718 23-9

MINUTEMAN ICBM GROUND ELECTRONICS SYSTEM - INTERROGATOR, TRANSPONDER, AND TEST PLUG
AD-442231 N64-31923 23-11

SOLID ROCKET MOTOR NOZZLE ENVIRONMENT IN COLD FLOW MODELING AND MOTOR FIRINGS
U-2709 N64-31926 23-11

CALCULATION OF MANPOWER & EQUIPMENT REQUIREMENTS FOR MAINTENANCE OF MINUTEMAN ICBM SYSTEMS
RM-3308-PR N64-32524 23-11

GROUND TEST
ION ENGINE GROUND TESTING TECHNIQUES
AEDC-TDR-63-245 N64-12685 04-1

GROUND AND FLIGHT TESTS OF SOLAR ORIENTATION CONTROL SYSTEM FOR SPACECRAFT
NASA-TM-X-944 N64-12712 04-1

AEROSPACE NUCLEAR RADIATION SAFETY GROUND TEST PROGRAM N64-14560 06-06

JET EXHAUST SIMULATION IN GROUND TEST FACILITIES AGARDOGRAPH-79 N64-22224 15-10

COMPARISON OF GROUND TEST AND ORBITAL LAUNCH RESULTS FOR EXPLORER IX AND EXPLORER XIX SATELLITES NASA-TN-D-2466 N64-28233 20-32

SPACE ENVIRONMENT SIMULATION FOR GROUND BASED TESTING OF ION ENGINES - INTERACTION OF ANNULAR ION BEAM WITH ENVIRONMENT AEDC-TDR-64-127 N64-32121 23-27

WIND TUNNEL AND GROUND TEST PLANS FOR PROPULSION SYSTEM OF XV-5A LIFT FAN FLIGHT RESEARCH AIRCRAFT QTPR-9 N64-32148 23-04

GROUND WAVE
CF RADIO WAVE
OBLIQUE INCIDENCE PULSE MEASUREMENTS AT 100-KC FOR SERARATING GROUND WAVE & SKY WAVE TIME MODES N64-19686 12-08

GROUND WAVE PROPAGATION AND HARMONICS OF ELECTROMAGNETIC FIELD OVER EARTH SURFACE N64-32227 23-08

GROUP BEHAVIOR
APPARATUS FOR GROUP DECISION MAKING AND COMMUNICATIONS PATTERNS UNDER CONDITIONS OF STRESS AND OVERLOAD AD-428615 N64-14624 06-33

HUMAN GROUP PERFORMANCE DURING CONFINEMENT ER-6024 N64-15747 07-14

INDIVIDUAL AND GROUP FACTORS IN ASTRONAUT SELECTION FTD-TT-64-260/1 N64-31474 23-14

GROUP THEORY
ALGEBRAIC AND TOPOLOGICAL ASPECTS OF TOPICS FROM GROUP THEORY AND MODERN ANALYSIS URPA-1 N64-10191 01-20

ALGORITHMIC PROBLEMS IN PARTIALLY ORDERED GROUPS JPRS-21898 N64-10352 01-20

ORTHOGONAL PROPERTIES OF CLEBSCH-GORDON COEFFICIENTS OF COMPACT GROUPS FOR DEVELOPMENT OF GENERALIZED SHNUSKEVICH METHOD URPA-15 N64-11406 02-20

DIFFERENCE SETS IN ELEMENTARY ABELIAN GROUPS NRC-422 N64-12329 03-20

GROUP CODE THEORY AND APPLICATION OF HADAMARD MATRIX TO CODING PROBLEM - CYBERNETICS FTD-TT-63-544/1&2&4 N64-12384 03-16

GROUP THEORY - ALGEBRAIC GENERALIZATION OF AUTOMATON OF REGULAR EVENTS AROD-4049-4 N64-16844 08-20

FUNCTIONAL COHOMOLOGY OPERATIONS AROD-2799-5 N64-18050 10-20

NEW SPACE GROUP TECHNIQUE FOR OBTAINING IRREDUCIBLE REPRESENTATIONS RELATED TO STANDARD TECHNIQUE N64-18659 11-25

GROUP THEORY - AUTOMORPHIC FORMS AND POINCARE SERIES FOR FINITELY GENERATED FUCHSIAN GROUPS - DIFFERENTIAL EQUATIONS INM-NYU-318 N64-18873 11-20

INDUCED REPRESENTATIONS IN GROUP THEORY WITH APPLICATIONS TO SYMMETRIC AND LINEAR GROUPS TECH. NOTE-102 N64-19201 11-20

QUADRATIC MASS FORNULA EVALUATION FOR ALL PARTICLES IN UNITARY SYMMETRY GROUP SU /3/ UR-875-44 N64-27974 20-23

BANACH ALGEBRA AND CONVOLUTION SEMIGROUPS AD-602024 N64-31555 23-20

REDUCTION OF KRONECKER PRODUCTS OF SPACE GROUP REPRESENTATIONS IN FRAMEWORK OF LITTLE GROUP THEORY ARL-64-183 N64-32195 23-20

GROUP VELOCITY
MATHEMATICAL FORMULAS FOR GROUP VELOCITY, PATH, AND ATTENUATION OF ELECTROMAGNETIC WAVES IN IONOSPHERE LAFE-10 N64-22011 15-12

GROWTH
SA CRYSTAL GROWTH
VON NEUMANN ECONOMICAL BALANCED GROWTH THEOREM AD-424941 N64-12820 04-01

FORMS OF SOIL BIOTIN N64-15803 07-16

GROWTH MEASUREMENTS AND PHOTOSYNTHESIS STUDY OF ANGIOSPERMS ANRL-TDR-63-131 N64-18773 11-16

EFFECTS OF ION BOMBARDMENT OF EMBRYONIC SITES ON WING GROWTH OF CONFUSED FLOUR BEETLE N64-27513 19-16

METAL WHISKERS - INDUCED GROWTH, GROWTH MECHANISM, ENERGY SOURCES FOR GROWTH, MAGNETIC PROPERTIES, AND RADIATION EFFECTS N64-28218 20-25

METHOD FOR OBSERVING TRANSITION GROWTH OF GRAPHITE WHISKERS N64-28219 20-25

RELATIONSHIP BETWEEN GROWTH AND GRAVITY IN BACTERIA - ESCHERICHIA COLI N64-28649 20-16

GROWTH AND SHRINKAGE RATES OF NONEQUILIBRIUM ICE FORMATIONS CRREL RES. REPT.-145 N64-33108 24-12

GRUNEISEN CONSTANT
CF CUBIC CRYSTAL
TEMPERATURE INDEPENDENT GRUNEISEN PARAMETER IN TERMS OF LATTICE PARAMETERS OF MONATOMIC CUBIC CRYSTAL NOLTR-64-143 N64-33362 24-25

GUANIDINE
REACTIONS OF ALIPHATIC & AROMATIC ISOTHIOCYANATES WITH DIGUANIDES AD-429064 N64-14818 06-07

GUANINE
FORMATION OF GUANINE DURING THERMAL POLYMERIZATION OF AMINO ACIDS NASA-RP-283 N64-27417 19-07

GUIDANCE
SA MIDCOURSE GUIDANCE
SA NAVIGATION AND GUIDANCE
SA REENTRY GUIDANCE
SA SPACECRAFT GUIDANCE
CF NAVIGATION
INERTIAL GUIDANCE SYSTEMS REVIEW JPRS-18047 N64-10637 01-22

ORBIT CALCULATION FROM TWO GIVEN POSITIONS - SATELLITE GUIDANCE N64-11425 02-29

SENSOR AND GUIDANCE CONTROL METHODS FOR SPACE MISSIONS NASA-CR-55075 N64-13013 04-22

COMPILATION OF REPORTS ON SYSTEMS, GUIDANCE, CONTROL, ENGINEERING AND MATERIALS, FACILITIES, PROPULSION, TELECOMMUNICATIONS, AND SPACE SCIENCE NASA-CR-53001 N64-13262 04-01

GUIDANCE & CONTROL CELESTIAL SENSOR DEVELOPMENT NASA-CR-53005 N64-13288 04-22

MOTION EQUATIONS - ITERATIVE GUIDANCE SCHEME FOR ASCENT TO ORBIT NASA-TM-X-51383 N64-13495 05-29

GUIDANCE DATA ATTENUATION BY EXHAUST PLUMES & PROBLEM OF MAINTAINING RELIABLE GROUND-MISSILE COMMUNICATIONS RE-TR-63-61 N64-13639 05-08

STABILIZED PLATFORM FOR INERTIAL GUIDANCE SYSTEM TESTING
RG-TR-63-29 N64-13809 05-22

TERMINAL CONTROL GUIDANCE DURING DIRECT & SKIP ENTRIES AT PARABOLIC VELOCITY
NASA-TN-D-2055 N64-14393 06-29

INERTIAL GUIDANCE SYSTEM ERROR ANALYSIS
N64-15318 07-22

TELEMETRY, COMMUNICATIONS, GUIDANCE, TRACKING, AND ELECTRONICS FOR SPACE APPLICATIONS
N64-16151 08-08

SPACE FLIGHT AND GUIDANCE THEORY - SATURN LAUNCH VEHICLE AND TRAJECTORIES
NASA-TM-X-54562 N64-16521 08-22

GUIDANCE EQUATIONS FOR SATURN V THIRD STAGE POWERED TRANSITION FROM EARTH ORBIT TO EARTH-MOON TRAJECTORY N64-16523 08-22

UNIVERSAL GUIDANCE MECHANIZATION EQUATIONS CAPABLE OF ACCURATE REAL TIME REPRESENTATION
TM-243-2-153 N64-17814 09-22

GUIDING FIGHTER AIRCRAFT TO AIRBORNE TARGETS THROUGH PASSIVE AND ACTIVE RADAR JAMMING INTERFERENCE
FTD-TT-62-1879/1&2 N64-19193 11-22

RADAR SENSOR AND VERTICAL DISPLAY FOR AIRBORNE INSTRUMENT LANDING SYSTEM
AD-435558 N64-19776 12-08

DIMENSIONLESS DIFFERENTIAL CORRECTIONS FOR GUIDANCE ANALYSIS OF TRANSFER ELLIPSE SECTION OF SPACE TRAJECTORIES
NASA-CR-56169 N64-20818 14-29

AUTOMATIC GUIDANCE AND LANDING SYSTEM FOR AIRCRAFTS N64-21053 14-06

INSTRUMENTATION TO AID PILOT PERFORMANCE IN AIRCRAFT GUIDANCE
NOTS-TP-3330 N64-21811 15-10

GUIDANCE OF MANNED LIFTING VEHICLE DURING ATMOSPHERIC ENTRY MISSION AT SUPERCIRCULAR SPEEDS
SSD-TDR-64-85 N64-22296 15-32

OPTICAL PROJECTION IMAGE EVALUATION FOR TERMINAL GUIDANCE SIMULATOR
NOR-64-78 N64-24449 17-15

TITAN III INERTIAL GUIDANCE SYSTEM
I-O-25 N64-24868 17-30

TERMINAL GUIDANCE SYSTEMS WITH RADAR AND HEAT HOMING DEVICES - OPTICAL, INFRARED, INERTIAL, AND CELESTIAL SYSTEM DESIGNS
SB-63-34 N64-24883 17-22

GUIDANCE ERROR FROM THRUST DECAY IN POWERED VERTICAL FLIGHT OF ROCKETS
ADN-06-06-63.2 N64-25916 18-22

TRAJECTORIES RESULTING FROM APPLICATION OF THRUST TO OBJECT IN INVERSE SQUARE CENTRAL FORCE FIELD - ADAPTIVE GUIDANCE
NASA-CR-58205 N64-27281 19-29

COMPUTATION OF OPTIMUM PAYLOADS & TRAJECTORIES AND FORMULATION OF GUIDANCE LAWS FOR SATELLITE LAUNCHERS
RAE-TN-SPACE-32 N64-27416 19-20

GUIDANCE FOR ROCKET BOOSTER MISSIONS
SSD-TDR-64-119 N64-27471 19-22

APPLICATION OF CONTINUOUS AND DISCRETE STRATEGIES OF MINIMUM EFFORT THEORY TO GUIDANCE OF INTERPLANETARY FLIGHT
AIAA PAPER-64-664 N64-27651 19-29

APPROXIMATE TIME OPTIMUM GUIDANCE EQUATIONS FOR PLANETARY ASCENT AND DESCENT TRAJECTORIES AT CONSTANT THRUST FLAT BODY TWO-DIMENSIONAL CASE
NASA-TN-D-2361 N64-28058 20-29

TRACKING SYSTEM REQUIREMENTS AND DESIGN OF OPTIMIZED TEST REGIME FOR EVALUATING BALLISTIC MISSILE INERTIAL GUIDANCE SYSTEMS IN FLIGHT TEST
N64-29104 21-08

COMPARISON OF INERTIAL GUIDANCE DATA WITH RANGE TRACKING DATA N64-29106 21-08

SPACE FLIGHT AND ADAPTIVE GUIDANCE
NASA-TM-X-51924 N64-29515 21-29

ANALYTICAL TECHNIQUE FOR COMBINING LINEARIZED TWO-BODY EQUATIONS WITH CALCULUS VARIATIONS TO DETERMINE GUIDANCE LAW FOR OPTIMUM SPACE MANEUVERS
NASA-TM-X-51926 N64-29518 21-29

GUIDING ION ENGINE ROCKETS INTO SPACE USING ELECTRIFIED RAILS ALIGNED IN SPACE BY SMALL ENGINES
FTD-TT-64-620/1 N64-29664 21-30

DIGITAL COMPUTER ADDRESSING METHODS - OPTIMUM SCHEME FOR MISSILE GUIDANCE COMPUTER
EF-3765-4 N64-30182 21-20

BOUNDARY VALUE FORMULATION OF SPACE VEHICLE GUIDANCE PROBLEM
NASA-TM-X-53100 N64-30192 21-22

AIRCRAFT LANDING GUIDANCE IN AZIMUTH, ELEVATION, AND RANGE USING GROUND-COUPLED RADARS
RAE-TRANS-1071 N64-32050 23-22

SIMPLIFIED MODEL FOR POSITION DETERMINATION USING OPTICAL FIX DATA - GUIDANCE IN INTERPLANETARY NAVIGATION BY MANUAL CALCULATION
AD-602264 N64-32068 23-22

INTEGRATED CIRCUIT DESIGN FOR LOW COST INERTIAL GUIDANCE SYSTEM - MICROMINIATURIZATION TECHNIQUES
T4-1448/32 N64-32522 23-09

GUIDANCE AND CONTROL
ATMOSPHERIC REENTRY GUIDANCE AND CONTROL METHODS - BIBLIOGRAPHY
IAS-PAPER-63-86-REV. N64-10168 01-22

PROPULSION AND GUIDANCE & CONTROL TESTING OF ATLAS CENTAUR LAUNCH VEHICLE
NASA-CR-52697 N64-11102 02-30

SPACE FLIGHT SUPPORTING PROGRAMS - GUIDANCE & CONTROL, PROPULSION, POLYMER PHYSICS, TELECOMMUNICATIONS, AND AERODYNAMICS
NASA-CR-53054 N64-14896 06-01

PROPULSION, ENGINEERING, FLIGHT COMPUTING, SYSTEM ANALYSIS, AND GUIDANCE AND CONTROL OF SPACECRAFT MECHANICS IN SPACE RESEARCH
NASA-CR-53456 N64-18102 10-01

IN-ORBIT GUIDANCE AND ATTITUDE CONTROL OF SPACE VEHICLES
W-6374 N64-19813 12-22

SPACE PROGRAM SUMMARY - SYSTEMS, GUIDANCE AND CONTROL, ENGINEERING, PROPULSION, SPACE SCIENCES, AND TELECOMMUNICATIONS RESEARCH
NASA-CR-56175 N64-20816 14-01

REACT STUDY OF GUIDANCE AND CONTROL FAILURES
T2-3209-5 N64-21685 15-06

CURRENT STATUS OF NAVIGATION, GUIDANCE, AND CONTROL
AIAA PAPER-64-500 N64-23613 16-22

SPACECRAFT COMMUNICATION, GUIDANCE AND CONTROL, MARS TRAJECTORY, POWER SYSTEM, AND STRUCTURAL MATERIALS N64-24230 16-01

USE OF MAN IN BOOSTER GUIDANCE AND CONTROL
NASA-CR-81 N64-24830 17-22

SYSTEMS ANALYSIS, MECHANICS, GUIDANCE AND CONTROL, PROPULSION, AND COMMUNICATION SYSTEM STUDIES
NASA-CR-58131 N64-26369 18-29

BOUNDARY VALUE PROBLEM IN SPACECRAFT GUIDANCE
NASA-TM-X-53059 N64-27240 19-22

DYNAMIC SIMULATION OF STABILIZED PLATFORM FOR GUIDANCE AND CONTROL OF SATURN LAUNCH VEHICLE
NASA-TM-X-51783 N64-27272 19-06

GUIDANCE AND CONTROL SCHEMES FOR MANNED LUNAR LANDING
NASA-CR-58073 N64-27392 19-23

APPLICATION OF STATE SPACE METHODS TO NAVIGATION PROBLEMS - GUIDANCE AND CONTROL
TR-4 N64-27648 19-22

SPACE PROGRAM - SYSTEMS ANALYSIS, GUIDANCE AND CONTROL, ENGINEERING FACILITIES, PROPULSION, AND COMMUNICATIONS
NASA-CR-58944 N64-32992 24-10

ASTRONOMICAL OBSERVATIONS OF SPECTRAL ENERGY DISTRIBUTION OF CANOPUS FOR APPLICATION TO SPACECRAFT GUIDANCE AND CONTROL
NASA-CR-59162 N64-32995 24-05

SPACE PROGRAM - HIGH THRUST BOOSTERS WITH GREATER PAYLOAD CAPABILITIES, SUPERIOR GUIDANCE AND CONTROL, AND ASTRONAUT TRAINING
EP-6 REV. N64-33740 24-32

GUIDANCE SYSTEM
CF HOMING DEVICE
CF MIDCOURSE GUIDANCE
DISPERSION AND ERROR IN GUIDANCE EFFECT ON RANGER LUNAR LANDING - MONTE CARLO METHOD ANALYSIS
NASA-CR-52540 N64-10336 01-32

PROPULSION AND GUIDANCE & CONTROL TESTING OF ATLAS CENTAUR LAUNCH VEHICLE
NASA-CR-52697 N64-11102 02-30

MICROELECTRONICS FOR MINUTEMAN GUIDANCE & CONTROL
N64-12110 03-09

ANALYTIC PLATFORMS FOR MISSILE GUIDANCE SYSTEM EVALUATION
RG-TR-63-23 N64-13674 05-22

BALLOON-BORNE ASTRONOMICAL TELESCOPE - STELLAR GUIDANCE SYSTEM
N64-14258 06-22

APOLLO SPACECRAFT GUIDANCE COMPUTER
N64-16174 08-22

ACCURACY LIMITATIONS FOR PILOT-TONE TIME-BASE CORRECTION SYSTEM BY ADDITION OF STABLE SINUSOID
SSD-TDR-64-9 N64-16447 08-08

GUIDANCE SYSTEM EQUATIONS FOR ATHENA ROCKET - REENTRY VEHICLE
BSD-TDR-64-37 N64-19664 12-30

PREDICTED AND MEASURED VIBRATION ENVIRONMENT FOR SKYBOLT GUIDANCE EQUIPMENT N64-20265 13-22

GEMINI PROJECT - PROGRAM PLAN FOR LAUNCH VEHICLE GUIDANCE COMPUTER
AD-431251 N64-21349 14-01

AUTOMATIC HOMING AND COMBINED ROCKET GUIDANCE SYSTEMS
FTD-TT-64-84/1626364 N64-22157 15-22

TITAN III INERTIAL GUIDANCE SYSTEM
I-0-25 N64-24868 17-30

LAUNCH VEHICLE TECHNOLOGY SUMMARY - STRUCTURE, GUIDANCE, ENGINES, PROPELLANTS, TESTING, CHECKOUT, AND LAUNCH OPERATIONS
AIAA PAPER-64-527 N64-25894 18-31

GUIDANCE OF INTERPLANETARY SPACECRAFT UNDER LONG PERIODS OF LOW THRUST PROPULSION
NASA-CR-56188 N64-27301 19-29

DYNAMIC RESPONSE OF SANTA RITA LAUNCH PLATFORM AND EFFECT ON SCOUT GUIDANCE SYSTEM ACCURACY
N64-28001 20-22

GAMMA GUIDANCE SYSTEM FOR HELICOPTER FLIGHT-FORMATION CONTROL
NADC-EL N6301 N64-28910 20-15

SPACECRAFT ON-BOARD OPTICAL GUIDANCE SYSTEM FOR PLANETARY APPROACH AND LANDING
NASA-CR-58236 N64-29004 20-22

X-20A NAVIGATION AND GUIDANCE REQUIREMENTS, SOLUTIONS AND EQUIPMENT
SEG-TDR-64-5 N64-29612 21-22

GUIDANCE SYSTEM EQUATION FOR NEAR OPTIMUM PITCH STEERING IN FIRST AND SECOND STAGE THRUST PROPULSION BOOSTER
TOR-269/4540-70/-3 N64-30653 22-22

ADVANCED MISSION ANALYSIS STUDY OF LUNAR TRAJECTORIES, GUIDANCE SYSTEMS, AND ORBIT DETERMINATION
NASA-CR-50435 N64-33134 24-29

HOMING DEVICES - GUIDANCE PRINCIPLES, SYSTEMS, AND METHODS
FTD-MT-64-198 N64-33935 24-22

GUIDED MISSILE
GUIDED MISSILES - MILITARY ENGINEERING PROBLEMS
JPRS-23032 N64-14255 06-04

AERODYNAMICS, STRUCTURES, PROPERTIES OF METALS AND ALLOYS, MECHANICAL ENGINEERING, GUIDED WEAPONS, AND AIRCRAFT OPERATION RESEARCH
N64-18420 10-01

INFRARED HOMING DEVICE FOR GUIDED MISSILES
JPRS-24947 N64-24597 17-22

HOMING SYSTEMS FOR GUIDED MISSILES
N64-24598 17-22

TARGET SEEKERS & HOMING DEVICES FOR GUIDED MISSILES N64-24599 17-22

MAGNITUDE OF ENERGY RADIATED FROM TARGETS AND DETECTED BY HOMING DEVICES IN GUIDED MISSILES
N64-24603 17-22

RADIATION EFFECT ON GUIDED MISSILE ELECTRONIC EQUIPMENT
FR-64-17-41 N64-27697 19-28

RADIOELECTRONIC INSTRUMENTS FOR REACTION BALLISTIC MISSILES
FTD-TT-63-772/1626364 N64-29986 21-06

GUIDED MISSILE LAUNCHING ZONES FOR SHIPBOARD MISSILE LAUNCHING SYSTEMS
NWL-1928 N64-30741 22-10

BIBLIOGRAPHY ON BALLISTICS, GUIDED MISSILES, AND WEAPONS
TDCK-15963 N64-32590 23-33

GUINEA PIG
EFFECT OF SPACE FLIGHT CONDITIONS ON FUNCTIONAL STATE OF VESTIBULAR TONIC & FLEXOR REFLEX IN GUINEA PIGS N64-11861 03-16

RADIOSENSITIVITY OF CHROMOSOMES OF EMBRYONIC FIBROBLASTS IN GUINEA PIGS AND MICE IN VITRO
JPRS-22719 N64-13163 04-16

HISTOCHEMICAL AND ELECTRON MICROSCOPIC STUDIES OF GRAVITY RECEPTOR CELLS OF UTRICLE OF GUINEA PIGS SUBJECTED TO RADIAL ACCELERATION
JPRS-23837 N64-18084 10-16

GULLIVER PROGRAM
GULLIVER PROGRAM - MARS EXTRATERRESTRIAL LIFE DETECTION AND ANALYSIS
NASA-CR-55511 N64-22755 16-16

GUN
RADIOACTIVE TRACER TECHNIQUE FOR STUDYING GUN FORMATION IN GASOLINE DURING STORAGE
BM-RI-6373 N64-15607 07-26

SIMULATION WITH CARBON PARTICLES OF BACTERIAL

INVASION OF HUMAN GINGIVAL TISSUES - PHYSIOLOGY
SAM-TDR-64-4 N64-17963 10-16

MECHANICAL, ELECTRICAL, AND FAILURE BEHAVIOR OF GUM RUBBER VULCANIZATES, AND DEVELOPMENT OF CROSS LINKED STANDARD POLYMER
MATSCIT-PS-64-2 N64-33325 24-19

GUN
SA ELECTRON GUN
CF WEAPON
MAGNETOHYDRODYNAMIC COAXIAL PLASMA GUN PROPULSION - IMPULSE DISCHARGE, CURRENT DISTRIBUTION & PLASMA VELOCITY
NASA-CR-52338 N64-10180 01-24

DYNAMICS & STRUCTURE OF CURRENT SHEETS IN COAXIAL PLASMA GUN
NASA-CR-55018 N64-11889 03-24

TEST FIRING FOR HARP PROJECT - CAPABILITIES OF VERTICALLY FIRED GUN PROBES
REPT.-63-5 N64-14478 06-32

GUN PROBES FOR HIGH ALTITUDE VERTICAL SOUNDINGS
TR-3147 N64-25962 18-30

PISTON MOTION IN HYPERSONIC GUN TUNNEL
CP-5 N64-27371 19-10

EXPLOSION PRODUCT FROM CONICAL PLASMA GUN AND EXPLODING WIRES IN RAIL GUN SYMMETRIES
AD-441171 N64-27690 19-24

EFFICIENCY OF COAXIAL GUN PLASMA ENGINE SYSTEM FOR VARIOUS CAPACITANCES, VOLTAGES, GAS DENSITIES, AND GUN GEOMETRIES
AIAA PAPER-64-706 N64-28305 20-06

ENERGY MEASUREMENT IN COAXIAL PLASMA GUN
AIAA PAPER-64-704 N64-28369 20-24

EXHAUST MEASUREMENTS ON PLASMA FROM PULSED COAXIAL GUN INTENDED FOR SPACE PROPULSION
AIAA PAPER-64-705 N64-28370 20-24

COAXIAL PLASMA GUN WITH STORAGE CAPACITOR EXHIBITING PULSE LINE BEHAVIOR FOR SPACE PROPULSION
NASA-CR-54149 N64-29222 21-27

PHOSPHOR EVALUATION, GUN DESIGN, AND ELECTRON OPTICS OF MINIATURE FIBER OPTIC CATHODE RAY TUBES
QPR-1 N64-31701 23-09

SABOT DESIGN FOR GUN-LAUNCHING OF AERODYNAMIC MODELS - PROJECT DEFENDER
CTN64-04 N64-32683 23-10

GUST
CF STORM
CF TURBULENCE
CF WIND
ESTIMATION OF TURBULENCE AND GUST COEFFICIENT OF WIND IN JET STREAMS N64-10994 02-21

AERODYNAMIC DRAG AND GUST LOADING OF SAILPLANES DURING TOWING
DVL-267 N64-19787 12-04

POWER SPECTRAL GUST DESIGN PROCEDURE FOR CIVIL AIRCRAFT N64-24397 17-03

STATISTICALLY DEFINED LOADS FOR VERTICAL GUST AND MATHEMATICAL MODEL FOR LATERAL GUST
MPR-5 N64-28131 20-33

POWER SPECTRAL GUST DESIGN PROCEDURES FOR CIVILIAN AIRCRAFT - DYNAMIC ANALYSIS
MPR-4 N64-30072 21-32

POWER SPECTRAL GUST DESIGN FOR CIVIL AIRCRAFT
MR-6 N64-30489 22-33

MOTION EQUATIONS FOR AIRCRAFT GUST LOAD RESPONSE
ADR-06-14-63.1 N64-30893 22-02

GUST ALLEVIATOR
GUST ALLEVIATOR ANALYSIS USING SPECTRAL TECHNIQUE, AND COMPARISON WITH EXPERIMENT
ARC-R&M-3326 N64-10016 01-02

GUST ALLEVIATION FOR SUBSONIC AIRCRAFT
TRECOM-TR-64-1 N64-31951 23-04

GYPSUM
X-RAY FLUORESCENCE TABLES - GYPSUM CRYSTAL
Y-1470-E N64-21854 15-25

GYRATION
CF ROTATION
PHASE ERRORS IN RADAR OR SONAR SYSTEM AND EFFECTS ON CENTER AND RADIUS OF GYRATION OF AMBIGUITY FUNCTION
REPT. 2900-347-R N64-13096 04-20

INFLUENCE OF GYRATION RADIUS AND COLLISIONS ON HYDROMAGNETIC STABILITY
MATT-218 N64-18338 10-24

FINITE RESISTIVITY INSTABILITIES OF SHEET PINCH WITH FIRST ORDER GYRATION RADIUS CORRECTIONS
MATT-258 N64-22117 15-23

GYROMAGNETISM
PROPAGATION OF FINITE AMPLITUDE ELECTROMAGNETIC WAVES IN GYROMAGNETIC MEDIA
ML-1020 N64-21301 14-08

GYROMAGNETIC RATIO DETERMINATION OF EVEN ISOTOPES OF CADMIUM AND MERCURY BY HIGH FIELD DOUBLE RESONANCE
NASA-RP-332 N64-32430 23-23

GYROSCOPE
AUTOMATIC, GYROSCOPIC CONTROL SYSTEM INVARIANCE AS FUNCTION OF DISTURBANCES & SCALAR CONTROL VARIABLE N64-11369 02-06

GYROSCOPIC, ELECTRONIC, AUTOMATIC, OPTIC, AND THERMAL INSTRUMENTS
JPRS-22479 N64-13565 05-01

ELECTRICAL PRESSURE PICKUP USED IN TACHOMETER TO MEASURE GYROSCOPIC SPEED AND ACCELERATION CHANGES N64-13572 05-15

APPROXIMATE DETERMINATION OF FORCED OSCILLATIONS IN NONLINEAR GYROSCOPE STABILIZING SYSTEMS N64-13573 05-23

AUTOMATIC LATITUDE COMPASS WITH GYROSCOPE N64-13574 05-22

TWO-DEGREES-OF-FREEDOM GYROSCOPE AS SATELLITE YAW SENSOR
NASA-TN-D-2134 N64-14940 06-22

PRODUCTION TECHNOLOGY FOR MINIATURE ELECTRIC GYROSCOPE MOTORS
FTD-TT-62-859/1&2 N64-15948 07-17

MOVEMENTS OF STATICALLY BALANCED GYROSCOPE IN CARDAN SUSPENSION MOUNTED ON VIBRATING BASE - FORMULATION OF EQUATIONS OF MOTION
FTD-TT-62-1280/1&2 N64-16055 07-22

ABSENCE OF AIR BUBBLES IN LIQUID USED IN FLOATING GYROSCOPE
FTD-TT-63-148/1&2 N64-16358 08-22

SYSTEMS FOR BALANCING AND DETERMINING TRIM OF FLOAT-TYPE GYROSCOPES
FTD-TT-62-1880/1&2&4 N64-16404 08-22

METHOD FOR BALANCING FLOAT IN FLOAT-TYPE GYROSCOPES USING ADDITIONAL WEIGHTS
FTD-TT-62-1881/1&2&4 N64-16405 08-22

NUCLEAR GYROSCOPE
ASD-TDR-63-937 N64-16871 08-23

FEASIBILITY OF GYROSCOPE SUITABLE FOR OPERATION IN HIGH GRAVITY ENVIRONMENTS
RG-431712 N64-16981 09-15

IMPROVEMENT OF SIGNAL-TO-NOISE RATIO IN ELECTRO-MAGNETOSTRICTIVE VIBRATORY GYROSCOPE

NASA-CR-53882 N64-19902 12-15

INERTIAL GIMBAL SYSTEM WITH AIR BEARING GYROSCOPE
RG-TR-64-1 N64-20303 13-15

NUCLEAR GYROSCOPE RESEARCH
A22-2 N64-21009 14-25

TEST EQUIPMENT FOR TESTING FLOATED GYROSCOPE
FTD-TT-62-1230/1&2 N64-22167 15-15

NAVIGATION, MINING, AND MILITARY APPLICATIONS OF GYROSCOPES
FTD-TT-63-837/1&2&4 N64-22356 15-22

GYROSCOPES - DIFFERENTIAL & INTEGRAL FLOAT TYPE
FTD-TT-62-1878/1&2 N64-22641 15-22

AIRCRAFT GYROSCOPE
FTD-TT-62-1560/1&2 N64-23383 16-15

AVIATION DIRECTIONAL GYROSCOPE N64-23384 16-15

HIGH SPEED GYROSCOPE FOR MEASURING ANGULAR VELOCITIES OF ROTATION N64-23385 16-15

INTEGRATING GYROSCOPES N64-23386 16-15

GYROSCOPIC POWER SYSTEMS N64-23387 16-15

GYROSCOPIC SYSTEMS UNPERTURBED BY INERTIA N64-23388 16-15

RADIO, COMPUTER, GYROSCOPIC, NAVIGATIONAL, OPTICAL, AND THERMAL INSTRUMENTATION
JPRS-23033 N64-23532 16-04

ERROR DETERMINATION OF FREE GYROSCOPE SET ON UNIFORMLY ROTATING BASE N64-23542 16-15

BEHAVIOR & CONTROL OF GYROSCOPE N64-23555 16-23

EFFECT OF ROTOR AXIS & HOUSING RIGIDITY ON GYROSCOPE MOTION N64-24519 17-15

SELECTION OF OPTIMAL PARAMETERS OF GYROSCOPIC NAVIGATION INSTRUMENTS ON BASIS OF ECONOMY & TECHNOLOGY N64-24521 17-15

IMPROVING LINEARITY OF GYROSCOPIC TACHOMETERS AND TACHOACCELEROMETERS N64-24545 17-15

DESIGN OF GYROSCOPIC INSTRUMENTS WITH AID OF NOMOGRAM BASED ON MOTION EQUATIONS N64-24546 17-15

SINGLE-AXIS GYROSCOPIC STABILIZATION SYSTEMS N64-24547 17-15

HARMONIC LINEARIZATION FOR STUDY OF NONLINEAR GYROSCOPIC SYSTEMS N64-24549 17-15

KINEMATIC RECTIFICATION IN DAMPED SINGLE AXIS GYROSCOPES
ARC-R&M-3358 N64-25496 17-15

ERROR REDUCTION IN VIBRATORY GYROSCOPES BY DOUBLE MODULATION N64-25879 18-15

TWIN-GYRO ATTITUDE CONTROL SYSTEM FOR SPACE VEHICLES
NASA TN D-2419 N64-27121 19-06

PORTABLE BASELINE ORIENTOR USING MICROELECTRONICS AND GYROSCOPE TO SENSE EAST-WEST DIRECTION
PUB-552-A-32 N64-27350 19-15

ANGULAR VELOCITY AND ACCELERATION PICKUP WITH TWO GYROSCOPES
FTD-TT-64-238/1&2&4 N64-27650 19-15

APPARENT MOTION OF ASTATIC GYROSCOPE WITH DRY FRICTION IN AXIS OF GIMBAL FIXED TO EARTH N64-29142 21-15

NATURAL DAMPING OF NUTATIONAL OSCILLATIONS OF FREE GYROSCOPE N64-29144 21-15

FRICTION REDUCTION IN SUPPORTS FOR GYROSCOPES N64-29151 21-15

EXPERIMENTAL GYROSCOPE - INDUCTION MOTORS, MAGNETIC SHIELDING, TEMPERATURE EFFECTS, FABRICATION OF PROTOTYPE, AND ELECTRON BEAM WELDING
NASA-CR-58499 N64-29201 21-15

MECHANICS AND TECHNOLOGY - GYROSCOPIC SYSTEMS AND METEOR SHIELDING
FTD-TT-64-413/1&2&4 N64-29292 21-23

MOTION CONSTRAINTS IN SYSTEM OF RIGID BODIES AND APPLICATION TO GYROSCOPE IN CARDAN SUSPENSION N64-29294 21-23

MOTION AND STABILITY OF SPHERICAL GYROSCOPE SUPPORTED BY GAS BEARING N64-30365 22-15

TWIN GYROSCOPIC CONTROL SYSTEM FOR THREE ORTHOGONAL AXES OF SPACE VEHICLE ATTITUDE CONTROL
NASA-RP-328 N64-31009 22-06

GAS SPIN BEARINGS APPLIED TO MINIATURE FLOATED RATE INTEGRATING GYROSCOPES N64-31484 23-17

DATA ANALYSIS OF STRAPPED DOWN AIRBORNE ELECTROSTATIC GYRO
MH-AERO-61811-TR5 N64-31637 23-20

GYRO MOTION EQUATIONS COMPARED TO ACTUAL DATA IN PERFORMANCE EVALUATION OF GIMBALLED AIRBORNE ELECTROSTATIC GYROSCOPE
HONEYWELL AERO-61811-TR5 N64-31683 23-20

EFFECT OF VERTICAL OSCILLATIONS OF GYROSCOPIC HOUSING ON GYROCOMPASS READING FOR FLOATING TYPE N64-31863 23-15

CONSTRUCTION AND TESTING OF GAS-BEARING GYROSCOPES
E-1612 N64-32473 23-15

BASIC PRINCIPLES OF ELECTROSTATIC, CRYOGENIC, LASER, AND NUCLEAR GYROS
AD-602197 N64-32607 23-15

GYROSCOPIC STABILITY
MECHANICAL GYROSCOPIC STABILIZER FOR VTOL AIRCRAFT
REPT.-220A90-2 N64-21915 15-04

STABILITY OF DISK SUPPORT OF GYROSCOPE N64-27984 20-23

GYROSCOPE STABILITY
FTD-TT-64-414 N64-30364 22-15

INFLUENCE OF CENTRIFUGAL MOMENTS OF INERTIA OF INNER SUSPENSION GIMBAL ON GYROSCOPIC STABILITY N64-30366 22-15

GYROTROPIC MEDIA
OBLIQUE INCIDENCE OF ELECTROMAGNETIC WAVE ON PLANE BOUNDARY BETWEEN TWO GYROTROPIC PLASMA MEDIA
AFCRL-64-45 N64-20174 13-25

INVARIANT METHOD SOLUTION TO PROBLEM OF ELECTROMAGNETIC WAVE PROPAGATION IN UNIFORM GYROTROPIC MEDIA
NASA-TT-F-8971 N64-33379 24-23

H

H-ALPHA LINE
H-ALPHA LINE EMISSION STARS NEAR RHO OPHIUCHI N64-26568 18-05

H-ALPHA EMISSION STARS NEAR DARK NEBULOSITY IN OPHIUCHUS N64-26569 18-05

H-ALPHA EMISSION PLANETARY NEBULAE N64-26571 18-05

LARGE SOLAR FLARE SERIES OF JULY 1961 - EVOLUTION

OF ACTIVE REGION AND FLARE PHENOMENA FROM H-ALPHA PHOTOGRAPHS AND RADIO BURST RECORDS
N64-30285 22-28

MEASUREMENT OF ATMOSPHERE COMPONENTS OF NIGHT AIRGLOW CONTINUUM, INTENSITY INCREASE IN AIRGLOW, SPATIAL DISTRIBUTION OF H-ALPHA LINE EMISSION, AND HYDROXYL AND WEAK EMISSIONS IN UPPER ATMOSPHERE
NASA-TT-F-204 N64-32701 24-12

SPATIAL DISTRIBUTION AND VARIATIONS OF H-ALPHA LINE EMISSION IN NIGHT AIRGLOW N64-32708 24-12

H-ALPHA LINE EMISSION IN NIGHT AIRGLOW AND HELIUM EMISSION OF NIGHT AIRGLOW WITH FABRY-PEROT INTERFEROMETER AND ELECTRONIC IMAGE CONVERTER
N64-32709 24-12

PATROL SPECTROGRAPHIC OBSERVATIONS OF H-ALPHA LINE AURORAL SPECTRA N64-32713 24-12

HABITABILITY
S SHELTER

HAFNIUM
PRODUCTION OF COMPACT HAFNIUM BY IODIDE METHOD IN MOLYBDENUM GLASS REACTION VESSEL
JPRS-22297 N64-11783 03-18

EXTRACTION OF HAFNIUM, THORIUM, URANIUM, CALCIUM, MAGNESIUM, BARIUM, AND STRONTIUM FROM PERCHLORIC ACID SOLUTIONS
IS-777 N64-15337 07-07

ANALYSIS OF HIGH PURITY HAFNIUM BY OPTICAL EMISSION SPECTROSCOPY
BM-RI-6384 N64-15832 07-07

HAFNIUM-TANTALUM EQUILIBRIUM DIAGRAM OBTAINED BY OPTICAL PYROMETRY, METALLOGRAPHY, DIFFERENTIAL THERMAL ANALYSIS, AND X-RAY DIFFRACTION
BM-RI-6521 N64-28624 20-18

VAPOR DEPOSITION OF BORIDES OF TITANIUM, HAFNIUM, AND ZIRCONIUM
R64SD46 N64-29433 21-07

THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM HALIDES
QPR-2 N64-32678 23-10

HAFNIUM ALLOY
NIOBIUM-HAFNIUM ALLOYS FOR USE AS HIGH TEMPERATURE STRUCTURAL MATERIALS
BM-RI-6492 N64-25834 17-18

BINARY HAFNIUM-TANTALUM ALLOY FOR OXIDATION-PROTECTIVE COATING OF TUNGSTEN & TUNGSTEN-ALLOY SUBSTRATES AT VERY HIGH TEMPERATURES
REPT.-25116, VOL. 10 N64-29233 21-18

HAFNIUM CARBIDE
METALLURGY - RARE EARTH, HAFNIUM CARBIDE, THORIUM, URANIUM NITRIDE, & TUNGSTEN-RHENIUM ALLOYS
USBM-U-1082 N64-10253 01-18

HIGH TEMPERATURE THERMAL EXPANSION OF HAFNIUM CARBIDE, NIOBIUM CARBIDE AND TANTALUM CARBIDE
C-18 N64-14017 05-19

PREPARATION OF ZIRCONIUM & HAFNIUM ALDEHYDIC POLYMERS AND TANTALUM CARBIDE-HAFNIUM CARBIDE ALLOYS N64-15109 07-19

RARE EARTH ALLOYS, HAFNIUM CARBIDE, THORIUM ALLOY, MELTING & CASTING METHODS, AND TUNGSTEN-RHENIUM TUBING DEVELOPMENTS
USBM-U-1091 N64-15838 07-18

RARE EARTH ALLOY, HAFNIUM CARBIDE, THORIUM ALLOY, URANIUM-CARBON-OXYGEN SYSTEM, TUNGSTEN-RHENIUM TUBING, & COLD-MOLD MELTING RESEARCH
USBM-U-1109 N64-19030 11-18

EFFECT OF VARIATIONS IN TIME, TEMPERATURE, AND PRESSURE ON DENSITY & GRAIN SIZE IN HOT PRESSING OF HAFNIUM-TANTALUM-ZIRCONIUM CARBIDES
NASA-RP-162 N64-19993 12-17

REACTIONS OF ZIRCONIUM AND HAFNIUM CARBIDES AND BORIDES WITH OXYGEN- OR HALOGEN-CONTAINING ATMOSPHERES
ASD-TDR-62-204, PT. III N64-25473 17-18

METALLURGY - RARE EARTH ALLOY DEVELOPMENT, HAFNIUM CARBIDE CASTING, THORIUM ALLOY SYSTEMS, COLD-MOLD INDUCTION MELTING, & URANIUM ALLOY SYSTEMS
USBM-RC-1122 N64-26482 18-18

HEATS OF FORMATION OF ZIRCONIUM CARBIDE AND HAFNIUM CARBIDE MEASURED BY COMBUSTION CALORIMETRY
BM-RI-6518 N64-28133 20-07

HAFNIUM COMPOUND
COMPUTED CHEMICAL EQUILIBRIA OVER LONG RANGE OF HIGH TEMPERATURES BETWEEN ROCKET EXHAUST GASES AND COMPOUNDS OF TANTALUM, TUNGSTEN, AND HAFNIUM
U-2384/2 N64-12866 04-07

PREPARATION OF ZIRCONIUM & HAFNIUM ALDEHYDIC POLYMERS AND TANTALUM CARBIDE-HAFNIUM CARBIDE ALLOYS N64-15109 07-19

THERMODYNAMIC FUNCTIONS OF HAFNIUM HALIDES
FTD-TT-64-457/1 N64-29894 21-13

THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM HALIDES
QPR-1 N64-33030 24-07

HAIL
THERMAL CONDITIONS FOR INDUCING WINTER PRECIPITATIONS BY ANTIHAIL ROCKET
N64-11837 03-21

HYGROSCOPIC SALTS IN ANTIHAIL ROCKETS FOR STABILIZING FOG - SOLID CARBON DIOXIDE & SILVER IODIDE N64-11838 03-21

LAYER METHOD FOR HAIL FORECASTING
N64-11842 03-21

HAIL & CLOUD DYNAMICS
MW-36 N64-14194 06-21

ALBERTA HAILSTORMS - SIZE-TIME-DURATION, RADAR ECHOES, & ORIENTATION N64-14195 06-21

HAIL GENERATION, SIZE DISTRIBUTION ACROSS STORM, & RAIN-HAIL SEQUENCE N64-14196 06-21

HAIL SIZE DISTRIBUTIONS N64-14197 06-21

METEOROLOGICAL AND WEATHER CONDITIONS IN HAILSTORM
N64-17570 09-21

HAIL PREVENTION BY CLOUD SEEDING
N64-20432 13-21

SCATTERING OF SUPERHIGH FREQUENCY RADIO WAVES BY HAIL AND WET SNOW
NASA-CR-56940 N64-25763 17-08

HALF-CONE
HEAT TRANSFER TO DELTA-WING HALF-CONE COMBINATION AT HYPERSONIC SPEEDS
NASA-TN-D-2199 N64-15973 07-03

HALIDE
SA BROMIDE
SA CHLORIDE
SA FLUORIDE
SA IODIDE
CF HALOGEN COMPOUND
POTENTIOMETRIC CONCENTRATION STUDY OF MERCURY, CADMIUM, LEAD, AND ZINC HALIDE CELLS
NAA-SR-881 N64-14083 05-23

CONDUCTION OF HALIDES, SULFIDES, ARSENIDES, AND SOLID ORGANIC COMPOUNDS - DIELECTRIC CONSTANT
N64-14186 06-23

CESIUM HALIDE ADDITIVES FOR THERMIONIC CONVERTERS
REPT. 35-64 N64-15697 07-03

FORMATION OF ALUMINUM NITRIDE USING METAL HALIDES AS CATALYSTS
AEET/CD/18 N64-15712 07-03

SERVOMECHANICAL SYSTEM FOR MEASURING VAPOR PRESSURE OF METAL HALIDE
BM-RI-6421 N64-18511 10-15

THERMODYNAMIC PROPERTIES OF PROPELLANT COMBUSTION PRODUCTS - VAPORIZATION OF BORON AND ENTROPIES OF GASEOUS METAL HALIDES
U-2403/2 N64-18742 11-26

HEAT CAPACITY OF LIGHT-ELEMENT MIXED METAL COMPOUNDS AND SOLID VAPOR EQUILIBRIUM OF ALUMINUM HALIDES N64-18821 11-13

OBTAINING ELEMENTAL BORON BY HYDROGEN REDUCTION OF BORON HALIDES
FTD-TT-62-1638/1&2&4 N64-21656 15-07

GEOMETRY OF TRANSITION METAL DIHALIDES - FLUORIDES OF MANGANESE, COBALT, NICKEL, COPPER, & ZINC
ITR-6 N64-25586 17-19

VISIBLE ABSORPTION SPECTRA OF CADMIUM IN CADMIUM HALIDES AND LEAD CHLORIDE AND IN LEAD BROMIDE
NASA-RP-247 N64-26074 18-19

CARBON-HYDROGEN BONDING IN HYDROCARBON COMPOUNDS - METHYL HALIDES
AFCRL-64-486 N64-26184 18-07

FAR INFRARED SPECTRA OF COPPER HALIDES, CUPRITE, RUBY, & ALKALI HALIDES OVER WIDE TEMPERATURE RANGE
AFCRL-64-489 N64-28552 20-25

CHEMICAL REACTIONS OF OXIDES WITH HALIDES, CARBONATES, SULFATES, AND NITRATES
FTR-1964 N64-30665 22-07

SPECTRAL AND MAGNETO-CHEMICAL STUDIES OF 5-TRIFLUOROMETHYLTETRAZOL COMPLEXES, COPPER COMPLEXES OF SUBSTITUED BENZOIC ACIDS, AND COPPER HALIDE COMPLEX WITH PYRIDINE N-OXIDE SUBSTITUTIONS
SR-9 N64-31093 22-07

INFRARED GAS SPECTROSCOPY OF ALKYL HALIDES
AROD-3895-3 N64-32025 23-23

THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM HALIDES
QPR-2 N64-32678 23-10

THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM HALIDES
QPR-1 N64-33030 24-07

HALL ACCELERATOR
MOMENTUM AND ENERGY TRANSFER MECHANISMS, THRUST EFFICIENCY, ANNULAR GEOMETRY, AND CYLINDRICAL FORM IN HALL CURRENT ACCELERATOR
NASA CR-52448 N64-10342 01-23

ELECTRIC ARC AND MAGNETIC HALL CURRENT ACCELERATOR TO PROVIDE HIGH PERFORMANCE ELECTRIC PROPULSION ENGINE
AIAA PAPER-64-670 N64-29599 21-27

HALL EFFECT
CF MAGNETIC PROPERTY
ENERGY LEVELS OF DEFECT CENTERS IN ELECTRON AND PROTON BOMBARDED SILICON - HALL COEFFICIENT & HALL MOBILITY
NASA-CR-51528 N64-10084 01-23

HALL EFFECT IN INDIUM ANTIMONIDE FILMS ON GLASS
NAVWEPS-8148 N64-10555 01-09

HALL EFFECT IN LIQUID METALS N64-12348 03-23

PROPERTIES AND APPLICATIONS OF INTERMETALLIC THIN FILMS OF INDIUM ANTIMONIDE IN HALL EFFECT DEVICES
N64-15115 07-25

HALL POTENTIALS AND FLOW FIELD PERTURBATIONS IN MAGNETOGASDYNAMIC FLOW OF AXISYMMETRIC FREE JET
AS-64-1 N64-17527 09-24

HALL EFFECT DEVICES AS MAGNETOMETERS FOR CRYOGENIC APPLICATIONS
NASA-TN-D-2272 N64-18736 11-15

VARIATION OF HALL CURRENTS WITH MAGNETIC FIELD FOR VARIOUS CONSTANT AXIAL CURRENTS
N64-20700 13-25

MAGNETORESISTANCE AND HALL EFFECT IN CONTROLLED RECTIFIER DEVICES USED FOR LOW VOLTAGE HIGH CURRENT CONVERTER
NASA-CR-56131 N64-20702 13-06

MAGNETOPLASMADYNAMIC CHANNEL FLOW WITH HALL CURRENTS
ARL-63-145 N64-21028 14-24

BIOELECTRONICS - HALL EFFECT AND ELECTROMAGNETIC EFFECTS ON NERVOUS SYSTEM
REPT.-63-27 N64-21680 15-16

HALL-EFFECT DEVICES FOR FLAW DETECTION IN METAL
R-1710 N64-22057 15-18

TRANSIENT RADIATION EFFECTS ON HALL DEVICES
AFWL-TDR-64-38 N64-26221 18-23

RESISTIVITY AND HALL EFFECT IN LIQUID METALS
AD-439050 N64-27174 19-25

HALL EFFECT IN RAYLEIGH PROBLEM FOR IONIZED GAS AT LOW SPEEDS - MAGNETOHYDRODYNAMICS
N64-30375 22-24

HALL EFFECT IN INDIUM ANTIMONIDE THIN FILMS VAPOR-DEPOSITED ON ALUMINUM OR TANTALUM SUBSTRATES
NAVWEPS-8167 N64-31166 22-25

BIBLIOGRAPHY ON MAGNETORESISTANCE AND HALL EFFECT IN METALS, SEMICONDUCTORS, AND ALLOYS
NAVWEPS-8191 N64-33240 24-25

MAGNETORESISTANCE, SUPERCONDUCTIVITY, AND HALL EFFECT FOR INVERTER APPLICATION
NASA-CR-59188 N64-33676 24-25

HALL GENERATOR
EFFECT OF DRIFT FROM NULL VOLTAGE ON USEFULNESS OF HALL GENERATORS IN FLUX RESPONSIVE MAGNETIC READ-OUT HEADS
AD-434401 N64-18130 10-15

EFFICIENCY OF HALL GENERATOR
NASA-CR-56568 N64-24107 16-09

MONATOMIC GAS FLOW IN MAGNETOPLASMADYNAMIC GENERATORS AT CONSTANT MACH NUMBERS - EFFECT OF ELECTRON TEMPERATURE ELEVATION ON HALL GENERATOR EFFICIENCY N64-30446 22-24

STANDARDIZATION OF HALL GENERATOR TERMINOLOGY AND GALVANOMAGNETIC EFFECTS N64-31498 23-09

DETECTION AND MEASUREMENT OF SMALL MAGNETIC FIELDS - HALL GENERATOR AND VOLTAGE AMPLIFIER
N64-31499 23-15

HALLAM NUCLEAR POWER FACILITY /HNPF/
PRESSURE DROP AND VIBRATION CHARACTERISTICS OF EIGHT-ROD URANIUM CARBIDE FUEL ELEMENT OF HALLAM NUCLEAR POWER FACILITY /HNPF/
NAA-SR-7475 N64-20668 13-23

HALLAM NUCLEAR POWER FACILITY CONTROL RESPONSE DURING TRANSIENT CONDITIONS
NAA-SR-9584 N64-22003 15-06

HALLUCINATION
CF IMAGERY
HALLUCINATIONS AS FUNCTION OF SUSTAINED SENSORY DEPRIVATION AND SOCIAL ISOLATION
AD-439431 N64-25127 17-16

HALOGEN
SA BROMINE
SA CHLORINE
SA FLUORINE
SA IODINE
GALLIUM ARSENIC PHOSPHIDE SYNTHESIS BY HALOGEN

VAPOR INTO LASER JUNCTIONS
AFCRL-63-552/B/ N64-13844 05-25

HALOGEN COMPOUND
SA HALIDE
FAR INFRARED SPECTRA OF HALOGENATED TOLUENE, BUTADIENE, AND GLYOXAL MOLECULES
ML-TDR-64-158, PT. 1 N64-30931 22-07

HALPHEN METHOD
HALPHEN METHOD USED TO DETERMINE LONG RANGE EFFECTS OF SUN AND MOON ON SATELLITE ORBITS
NASA-TR-R-176 N64-17826 09-05

APPLICATION OF HALPHEN METHOD FOR SECULAR PETURBATIONS TO DETERMINATION OF LONG RANGE EFFECTS IN MOTIONS OF CELESTIAL BODIES
NASA-TR-R-194 N64-28340 20-05

HAMBURGER HFB 320 AIRCRAFT
DURABILITY OF WING ASSEMBLY FOR HAMBURGER HFB 320 AIRCRAFT N64-13498 04-33

HAMILTON-JACOBI EQUATION
CF RELATIVISTIC PARTICLE
HAMILTON-JACOBI EQUATION IN VARIATIONAL PROBLEMS WITH PARTIAL DERIVATIVES
FTD-MT-64-224 N64-31773 23-20

HAMILTON JACOBI EQUATION - APPROACH FOR OPTIMUM CONTROL PROBLEM SOLVING
NASA-CR-58775 N64-33200 24-20

HAMILTONIAN
VARIATIONAL PRINCIPLE OF HAMILTON APPLIED TO HYDROMAGNETIC SYSTEM WITH EQUATIONS IN HAMILTONIAN FORM
RTI/FI/62/6 N64-12574 04-24

APPROXIMATE DIRAC-COULOMB HAMILTONIAN POSSESSING TWO VECTOR INVARIANTS N64-13834 05-23

HARTREE-FOCK SOLUTIONS TO ENERGIES OF EXCITED STATES USING HAMILTON PRINCIPLE
N64-16948 09-20

REMOVAL OF ELECTRON-ELECTRON POLES FROM MANY-ELECTRON HAMILTONIANS TO REDUCE DIFFICULTIES IN SOLUTION OF SCHROEDINGER EQUATION
N64-18053 10-23

RESONANCE IN NONLINEAR OSCILLATING-INTEGRATING HAMILTONIAN SYSTEM
FTD-MT-63-112 N64-18762 11-23

REMOVAL OF ELECTRON-ELECTRON POLES FROM HAMILTONIAN OF MANY-ELECTRON PROBLEM
NASA-CR-56560 N64-23995 16-23

STABILITY BEHAVIOR OF SOLUTIONS OF HAMILTONIAN SYSTEM N64-25106 17-23

KOLMOGOROFF THEORY - CONSERVATION OF CONDITIONALLY PERIODIC MOTIONS WITH SMALL CHANGE OF HAMILTONIAN FUNCTION
FTD-MT-64-174 N64-30543 22-23

EQUATIONS OF MOTION FOR THREE BODY PROBLEM IN HAMILTONIAN FORM
NASA-CR-110 N64-31206 22-23

HANDBOOK
MANUAL FOR OPERATIONAL DOCUMENTARY PHOTOGRAPHY REACTOR SAFETY PROGRAM
IDO-10037, REV. 1 N64-14412 06-15

AEROSOLS HANDBOOK - ADSORPTION WAVE, METEOROLOGY, PROPERTIES OF AEROSOLS, PARTICLE SIZE & DISTRIBUTION, FILTRATION, AND AEROSOL CLOUDS
STR-10-1/EXCERPTS/ N64-17528 09-07

QUALITY ASSURANCE MANUAL FOR MAINTAINING HIGH QUALITY & RELIABILITY OF MATERIALS AND SENSORS
N64-20486 13-17

HANDBOOK ON TYPING NASA CONTRACTOR REPORTS FOR REPRODUCTION
NASA-SP-7007 N64-28073 20-14

HANDLING
SA DATA HANDLING SYSTEM
AEROSPACE GROUND EQUIPMENT FOR LARGE SOLID PROPELLANT ROCKET ENGINES - TRANSPORTATION, HANDLING, TEST, AND ASSEMBLY TECHNIQUES
RTD-TDR-63-1025, VOL. 1 N64-17646 09-10

HANDLING OF HIGH ENERGY FUEL OXIDIZERS AND TOXIC MATERIALS IN CONFINED AREAS
NSL-64-244 N64-33368 24-17

JP-4 JET FUEL HANDLING PROCEDURES RELATING TO MICROORGANISM CONTAMINATION
SEG-TDR-64-29 N64-33745 24-17

HANDLING EQUIPMENT
SA TRANSPORTATION
CF STORAGE
AEROSPACE GROUND EQUIPMENT FOR LARGE SOLID PROPELLANT ROCKET ENGINES - TRANSPORTATION, HANDLING, TEST, AND ASSEMBLY TECHNIQUES
RTD-TDR-63-1025, VOL. 1 N64-17646 09-10

FIRE EXPOSURE TEST OF WOODEN JACKET SHIELD FOR RADIOISOTOPE TRANSPORTATION CONTAINER
COO-275 N64-19146 11-26

DEPTH REGULATION OF LOWERED OCEANOGRAPHIC EQUIPMENT
NEL-1215 N64-22959 16-22

REACTOR CORE COMPONENT HANDLING EQUIPMENT AND TECHNIQUES FOR NUCLEAR POWER FACILITY
NAA-SR-7785 N64-29753 21-10

OPERATING, HANDLING, AND STORAGE INSTRUCTIONS FOR X-258 ROCKET MOTOR
ABL/M-126 N64-31287 22-17

FRACTION COLLECTOR FOR DISTILLATION AND SUBSEQUENT HANDLING OF AIR AND/OR MOISTURE SENSITIVE COMPOUNDS
SUFFIELD-TN-128 N64-32879 24-07

INERT ATMOSPHERE DRYBOX SYSTEM FOR HANDLING CHEMICALLY SENSITIVE MATERIALS
LA-3109 N64-33748 24-10

HANDLING QUALITY
PILOTED SIMULATOR STUDIES OF LOW-SPEED LONGITUDINAL HANDLING QUALITIES OF SUPERSONIC TRANSPORT AIRCRAFT N64-10909 02-14

VTOL AIRCRAFT CONTROL & HANDLING QUALITIES
UAR-B175 N64-14141 05-04

LATERAL-DIRECTIONAL CONTROL CROSS-COUPLING EFFECTS AND HANDLING QUALITIES OF V/STOL AIRCRAFT
NRC-7778 N64-14203 06-22

FLIGHT AND GROUND-BASED DYNAMIC FLIGHT SIMULATOR, STUDY OF HANDLING AND AERODYNAMICS OF LOW-ALTITUDE, HIGH-SPEED AIRCRAFT
AGARD-443 N64-16292 08-04

FLIGHT TEST OF PERFORMANCE, HANDLING QUALITIES, AND OPERATIONAL CHARACTERISTICS OF SLIPSTREAM STOL TRANSPORT AIRCRAFT
NASA-TN-D-2231 N64-17726 09-04

PILOTED SIMULATOR STUDY OF HANDLING QUALITIES OF SUPERSONIC TRANSPORTS IN LANDING MANEUVERS
NASA-TN-D-2251 N64-17993 10-14

SIMULATOR TO IMPROVE HANDLING QUALITIES OF VTOL AIRCRAFT
LR-302 N64-19280 11-22

VTOL AIRCRAFT HANDLING QUALITY STUDIES USING FIXED BASE SIMULATORS OPERATING UNDER INSTRUMENT FLIGHT CONDITIONS
AGARD-471 N64-19854 12-04

V/STOL AIRCRAFT - HELICOPTER, PROPELLER, DUCTED FAN, AND TURBOJET AIRCRAFT HANDLING QUALITIES
NASA-RP-286 N64-28229 20-04

HANDWRITING
COMPUTER RECOGNITION OF HANDWRITTEN WORDS

N64-29385 21-20

HANKEL FUNCTION
EVALUATION OF COMPLEX ORDER HANKEL FUNCTIONS
AFCRL-64-96 N64-18775 11-20

HANSEN LUNAR THEORY
HANSEN THEORY OF SATELLITE ORBIT CALCULATION AS MODIFIED BY MUSEN
NASA-TR-R-147 N64-14437 06-20

HANSEN SUSPENSION
S THRUST MEASUREMENT

HARDENING
HARDENING PROPERTIES OF POLYVINYL CHLORIDE-DIBUTYL PHTHALATE PLASTISOL BY ELECTRICAL RESISTANCE METHOD
NOLTR-63-250 N64-13828 05-19

CONCENTRATION DEPENDENCE OF SUZUKI ATMOSPHERES IN PACKING DEFECTS OF EXTENDED DISLOCATIONS, AND CONTRIBUTION TO ALLOY HARDENING
N64-15018 07-25

RADIATION HARDENING PROCESS FOR STANDING WAVE IMPEDANCE PROBE
AFCRL-63-753 N64-15728 07-23

DEPTH OF COLD HARDENING LAYER IN ALLOYS AND ELECTRIC SPARK WORKING OF NICKEL BASE ALLOYS
FTD-TT-62-1248/1&2 N64-16233 08-17

DEPTH OF COLD HARDENED LAYER OF ALLOYS UNDER VARIOUS MACHINING MODES N64-16234 08-17

COLD HARDENING AND RECRYSTALLIZATION OF STEEL ALLOY UNDER IMPACT DEFORMATION
FTD-TT-62-1318/1&2 N64-16346 08-18

METAL FATIGUE AND PLASTIC DEFORMATION - HARDENING AND STRESS RELAXATION HYPOTHESES
ONERA-TM-27/1963/ N64-19546 12-25

METHOD FOR TESTING HARDENABILITY OF HYPEREUTECTOID ALLOYED-TOOL STEELS
JPRS-24520 N64-20230 13-18

GRAIN BOUNDARY HARDENING IN NICKEL-ALUMINUM DUE TO OXYGEN CONTAMINATION
ASD-TDR-63-309, PT. II N64-21442 14-18

RADIATION HARDENED READOUT CIRCUITS
FR-6410-105 N64-26062 18-09

HIGH-STRENGTH, PRECIPITATION-HARDENING, LOW-MAGNETIC IRON-CHROMIUM-NICKEL ALLOYS
N64-27148 19-18

EFFECT OF URANIUM ON ISOTHERMAL TRANSFORMATION AND HARDENING ABILITY OF LOW ALLOY STEEL
BR-RI-6515 N64-30066 21-18

HARDNESS
CF BRITTLENESS
CF MECHANICAL PROPERTY
CF SURFACE PROPERTY
HARDNESS OF NONMETALLIC SOLIDS FOR RESISTANCE TO STRUCTURAL BREAKDOWN
AFCRL-63-26 N64-15583 07-23

HARDNESS OF TUNGSTEN IN 200-2000 DEG RANGE USING THERMOCOUPLE AND OPTICAL PYROMETER MEASUREMENTS
FTD-TT-63-101/1&2 N64-16414 08-18

CHANGES IN MICROSTRUCTURE, HARDNESS, AND ELECTRIC CONDUCTIVITY DURING CREEP IN HIGH TEMPERATURE STEELS N64-17027 09-18

HARDNESS AND ELECTRICAL PROPERTIES OF NICKEL-ALUMINUM ALLOYS IN BETA-PHASE REGION
N64-24248 17-18

HARDENABILTIY OF TITANIUM BASE ALLOYS OBSERVED BY METALLOGRAPHIC EXAMINATION
JPL-TR-32-589 N64-25493 17-18

NOTCH SENSITIVITY AND HARDNESS OF MARTENSITIC STEEL
DTMB-1850 N64-33364 24-18

HARDWARE
AGING OF INSTALLED RUBBER & PLASTIC GASKETS IN SIMULATED FLIGHT HARDWARE
NASA-TM-X-54517 N64-17607 09-19

REQUIREMENTS FOR HARDWARE COMPUTER USING IPL-V INSTRUCTION SET
ANL-6888 N64-28449 20-08

HARMONIC ANALYSIS
ONE-DIMENSIONAL MULTIGROUP P-3 COMPUTER PROGRAM FOR TREATING FAST NEUTRONS BY SPHERICAL HARMONICS APPROXIMATION
WAPD-TM-272 N64-10215 01-20

CENTERING CORRECTION FOR INSPECTION OF OFF-CENTER PART HAVING ROTATIONAL SYMMETRY - HARMONIC ANALYSIS
Y-1445 N64-10665 01-20

HARMONIC ACTION ON SYSTEM OF TWO CIRCUITS COUPLED BY NONLINEAR CAPACITANCE N64-23798 16-09

HARMONIC LINEARIZATION FOR STUDY OF NONLINEAR GYROSCOPIC SYSTEMS N64-24549 17-15

HARMONIC BALANCE METHOD FOR INVESTIGATING NONLINEAR AUTOMATIC SYSTEMS N64-24699 17-20

HARMONIC ANALYSIS OF HUMAN PERFORMANCE OF TRACKING IN T-33 AIRCRAFT, IN CENTRIFUGE SIMULATION, AND IN STATIONARY SIMULATION
NADC-AC-6406 N64-28696 20-14

APPLICATION OF STATISTICS TO ANALYSIS OF STATIONARY TIME SERIES - HARMONIC ANALYSIS
NADC-AC-64095 N64-29763 21-20

ELECTROMAGNETIC METHOD OF NONDESTRUCTIVE TESTING OF DECARBURIZATION OF COMPONENTS - HARMONIC ANALYSIS
SA-TR-19-1508 N64-33719 24-17

HARMONIC FUNCTION
REFLECTION OF HARMONIC FUNCTIONS & SOLUTIONS OF THIN WAVE EQUATION ACROSS DIFFERENTIAL BOUNDARY CONDITIONS
AD-431974 N64-21547 15-08

TOPOLOGICAL MATHEMATICS - COMPACTIFICATION THEORY ON HAUSDORFF SPACE LATTICES & HARMONIC FUNCTIONS
TR-26 N64-25089 17-20

IRREDUCIBLE TENSOR EXPANSION OF SOLID SPHERICAL HARMONICS TYPE OPERATORS IN QUANTUM MECHANICS
N64-30320 22-23

EXTREMAL HARMONIC FUNCTIONS IN LOCALLY EUCLIDIAN N-SPACES
AROD-1517-66 N64-31652 23-20

HARMONIC OSCILLATOR
USE OF GREEN FUNCTION TO NUMERICALLY SOLVE PERTURBED HARMONIC OSCILLATOR EQUATION AND HARTREE-FOCK MANY-ELECTRON ATOM EQUATIONS
GSP/PHYS/64-9 N64-33831 24-23

HARMONIC RADIATION
REDUCTION OR ELIMINATION OF INTERFERENCE DUE TO HARMONIC FREQUENCY RADIATION FROM HIGH POWER TRANSMITTERS N64-22823 16-09

ELECTRON CYCLOTRON HARMONIC RADIATION FROM PLASMA
MATT-290 N64-28423 20-24

HARMONICS
RELATIONSHIP BETWEEN NEWTONIAN MOTION EQUATIONS AND HARMONIC COORDINATE CONDITIONS OF ZERO ORDER IN EINSTEIN GRAVITATION THEORY
FTD-TT-63-593/1&2&4 N64-29325 21-23

GROUND WAVE PROPAGATION AND HARMONICS OF ELECTROMAGNETIC FIELD OVER EARTH SURFACE
N64-32227 23-08

GALLIUM ARSENIDE EPITAXIAL VARACTOR DIODES FOR MICROWAVE HARMONIC GENERATION, AND MEASUREMENT

TECHNIQUES FOR TRANSIENT MICROWAVE IMPEDANCE OF P-I-N DIODES
REPT.-17 N64-32569 23-09

HARP PROJECT
TEST FIRING FOR HARP PROJECT - CAPABILITIES OF VERTICALLY FIRED GUN PROBES
REPT.-63-5 N64-14478 06-32

HARTMANN FLOW
MAGNETOHYDRODYNAMIC CHANNEL FLOWS - GENERALIZED HARTMANN FLOW, LAMINAR FLOW IN PIPES, UNSTEADY FLOW, AND TURBULENT FLOW
ARL-63-175 N64-27465 19-24

HARTREE-FOCK CALCULATION
SCATTERING FACTORS FROM HARTREE SELF-CONSISTENT-FIELD WAVE FUNCTIONS FOR ELEMENTS AND IONS
LA-2987 N64-11985 03-23

HARTREE-FOCK SOLUTIONS TO ENERGIES OF EXCITED STATES USING HAMILTON PRINCIPLE
N64-16948 09-20

APPLICATION OF HARTREE-FOCK SECOND ORDER DISTURBANCES CALCULATION FOR BERYLLIUM SYSTEMS
N64-17012 09-23

CROSS SECTIONS FOR PHOTOIONIZATION OF ATOMIC OXYGEN BY RADIATION USING HARTREE-FOCK CALCULATION
NASA-CR-55949 N64-17689 09-23

ELECTRON SPIN PROPERTIES OF PAIR-CORRELATED ATOMIC AND MOLECULAR SINGLET WAVE FUNCTIONS USING HARTREE-FOCK CALCULATION
NASA-CR-53565 N64-18426 10-23

CORRELATION BETWEEN PAIRS OF ELECTRONS AS REFINEMENT OF HARTREE-FOCK APPROXIMATION - SPIN HAMILTONIAN AND SELF-CONSISTENT FIELD THEORY
AD-431985 N64-21543 15-23

HARTREE-FOCK APPROXIMATION FOR FINAL TRANSITION STATE INVOLVING EJECTION OF OUTER OR INNER SHELL ELECTRON DURING PHOTOIONIZATION OF OXYGEN
NASA-CR-66 N64-24398 17-23

VIRTUAL ORBITAL METHOD USING HARTREE-FOCK CALCULATIONS APPLIED TO DETERMINATION OF MOLECULAR ENERGY
QSR-6 N64-25315 17-23

COMPARISON OF HARTREE-FOCK ORBITAL WITH FIRST NATURAL SPIN ORBITAL FOR TWO-ELECTRON SYSTEM
NASA-CR-56669 N64-27386 19-23

ENERGY MINIMUM PRINCIPLE FOR HARTREE-FOCK CALCULATIONS OF CERTAIN EXCITED ATOMIC STATES
RR-TR-64-9 N64-29347 21-23

USE OF GREEN FUNCTION TO NUMERICALLY SOLVE PERTURBED HARMONIC OSCILLATOR EQUATION AND HARTREE-FOCK MANY-ELECTRON ATOM EQUATIONS
GSP/PHYS/64-9 N64-33831 24-23

HARVARD RADIO METEOR PROJECT
S METEOR

HASTELLOY
CF NICKEL ALLOY
REACTOR ENVIRONMENT AND IRRADIATION EFFECT ON STRUCTURAL MATERIALS - ZIRCALOY-2, HASTELLOY X-280, AND NICKEL BASE ALLOYS N64-14232 06-23

METALLURGICAL EXAMINATION OF HASTELLOY X FOR CORROSION
A468 N64-16786 08-18

INFLUENCE OF METALLURGICAL VARIABLES ON TENSILE PROPERTIES OF HASTELLOY N
ORNL-3661 N64-26790 18-18

HAYSTACK PROJECT
PHASE ERRORS OF HAYSTACK ANTENNA RADIATION PATTERNS DUE TO SURFACE DEVIATIONS
AD-418470 N64-14091 05-08

COMMUNICATIONS, RADAR, AND RADIO ASTRONOMY STUDY USING HAYSTACK ANTENNA SYSTEM
ESD-TDR-63-580 N64-27684 19-08

SCALE MODEL TEST PROGRAM FOR HAYSTACK PROJECT ANTENNA
N64-29267 21-33

PHASED ARRAY RADAR RESEARCH AND HAYSTACK PROJECT-RADAR SIGNAL PROCESSING, TRANSMITTERS, RANGE MEASUREMENTS, AND MICROWAVE COMPONENTS
ESD-TDR-64-335 N64-30179 21-08

HAYSTACK POINTING COMPUTER PROGRAM FOR OBTAINING CELESTIAL COORDINATES OF SUN
ESD-TDR-64-355 N64-30663 22-05

HAZARD
SA METEOROID HAZARD
SA RADIATION HAZARD
CF SAFETY
MANUAL FOR OPERATIONAL DOCUMENTARY PHOTOGRAPHY REACTOR SAFETY PROGRAM
IDO-10037, REV. 1 N64-14412 06-15

WOLFF-PARKINSON-WHITE SYNDROME AS AVIATION RISK - ELECTROCARDIOGRAPHIC ANOMALY
REPT.-15 N64-14778 06-14

HAZARDS CONTROL - VARIOUS METHODS OF PROTECTION FROM RADIATION, LASERS, & MERCURY VAPOR
UCRL-7571 N64-14880 06-16

INFLIGHT VERTIGO AND LOSS OF CONSCIOUSNESS - ELECTROENCEPHALOGRAPHIC STUDIES
CARI-63-21 N64-14952 06-16

DETECTION AND MEASUREMENT OF CYCLE SKIPPING AND PHASE OFFSETS IN FREQUENCY MULTIPLYING PHASE-LOCK FILTERS
N64-16168 08-09

RADIOFREQUENCY FILTER TO PROTECT ORDNANCE AGAINST HAZARD OF ELECTROMAGNETIC RADIATION INDUCED FIRING
NAVWEPS-7805, REV. 1 N64-16468 08-09

HAZARDS TO MANNED SPACE FLIGHT N64-24496 17-32

MEASUREMENT OF HAZARDOUS GASEOUS MATERIAL SOURCE CHARACTERISTICS USING CIRCULAR SAMPLING ARRAY
LA-3094 N64-26275 18-21

POTENTIAL HAZARDS OF NOISE ASSOCIATED WITH OPERATION OF MILITARY AIRCRAFT
USAARU-63-1 N64-27609 19-04

ELECTROSTATIC CHARGING AND DISCHARGING PROCESSES DURING AIRCRAFT REFUELING N64-30372 22-17

UPPER AND LOWER BOUNDS FOR HAZARD RATES
D1-82-0338 N64-30580 22-20

HAZARDS IN OXYGEN ENVIRONMENT N64-30727 22-16

EXPLOSION SENSITIVITY OF SOLID PROPELLANT ROCKET ENGINES
NOLTR-64-148 N64-31675 23-24

CREW STATION DESIGN CRITERIA FOR SPACE VEHICLES - PRESSURE SUIT REQUIREMENTS, POTENTIAL HAZARDS, AND IN-FLIGHT MAINTENANCE
SID-64-997 N64-32201 23-32

BALLISTIC MISSILE SYSTEM FOR DETECTION OF HAZARDOUS VAPORS
AD-420350 N64-32391 23-06

FIRE HAZARD INVESTIGATION OF COMBUSTIBLE MATERIALS IN SPACECRAFT PROPULSION COMPARTMENT
RPL-TDR-64-103 N64-32668 23-26

HAZE
SA FOG
CF VISIBILITY
HAZE EFFECT ON CONTRAST IN AERIAL PHOTOGRAPHY
FTD-TT-63-798/1&2 N64-12852 04-23

ATMOSPHERIC ELECTRICAL CHARACTERISTICS IN FOG, SMOKE AND HAZE N64-31764 23-21

HEAD
TOLERANCE TO VEHICLE ROTATION OF ASTRONAUTS USING TURNING AND NODDING MOTION OF HEAD WHILE

PERFORMING SIMPLE TASKS
AIAA PAPER-64-218 N64-23608 16-14

HEALTH
SA SANITATION
CF HYGIENE
STANDARD HEALTH AND SAFETY REQUIREMENTS FOR USE BY NUCLEAR REACTOR TEST SITE PERSONNEL
IDO-12028 N64-10428 01-16

HEALTH AND SAFETY PROCEDURES FOR HIGH ENERGY ELECTRON SCATTERING FROM TRITIUM GAS
LAMS-2959 N64-12113 03-16

SMOKING AND HEALTH OF HUMANS N64-13017 04-16

RADIOACTIVE NUCLIDE LEVELS IN FALLOUT, MILK, FOOD, WATER, AND UPPER-AIR SAMPLES - BIBLIOGRAPHY
HASL-142 N64-13329 04-16

HEALTH PROGRAM FOR PROVIDING BURN THERAPY TO VICTIMS OF NATIONAL ATOMIC DISASTER - TRAINING OF ALLIED HEALTH PERSONNEL
AD-426228 N64-14324 06-16

HUMAN BEHAVIOR DURING SPACE TRAVEL - MAINTENANCE OF HEALTH
ENG. REPT.-11133 N64-14943 06-14

HEALTH PROTECTION DEVELOPMENTS IN USSR
JPRS-24840 N64-22728 16-16

HEALTH, SPACE SCIENCE AND TECHNOLOGY, BIOLOGY, AND PHYSIOLOGY
JPRS-25506 N64-28009 20-16

HEARING
SA DEAFNESS
CF AUDIOLOGY
METHODS OF TESTING & MEASUREMENT OF NONORGANIC HEARING IMPAIRMENT
AD-425085 N64-13615 05-16

PHYSIOLOGICAL FACTOR OF ACOUSTIC FATIGUE IN HEARING PURE TONES
CARI-63-19 N64-14410 06-16

BINAURAL BEAT PERCEPTION STUDY USING RELATIVE PROCEDURES
CARI-63-17 N64-14411 06-16

COMMUNICATION BIOPHYSICS - HEARING
N64-17884 10-16

EFFECT OF NOISE FROM CARRIER DECK JET ENGINE OPERATION ON HEARING, SPEECH INTERFERENCE, AND SONIC FATIGUE
AD-432086 N64-21840 15-14

SIGNAL DETECTION - BINAURAL MASKING DIFFERENCES AT HIGH FREQUENCIES USING BLACK BOX MODEL
NASA-CR-56720 N64-27809 19-08

CUMULATIVE EFFECTS OF REPEATED EXPOSURE TO HIGH INTENSITY TONES UPON RECOVERY OF AUDITORY SENSITIVITY
AD-420856 N64-32375 23-14

HEART
CF BLOOD
CF CARDIORESPIRATORY SYSTEM
CF CARDIOVASCULAR SYSTEM
RADIATION DAMAGE TO OVARIES, AND ELECTRICAL STIMULATION OF HEART IN MICE - BIBLIOGRAPHY
JPRS-18045 N64-10453 01-16

CARDIAC ARREST & RESUSCITATION
JPRS-22010 N64-11225 02-16

LONG-RANGE CONSEQUENCES OF ACUTE CARDIAC ARREST IN SUCCESSFULLY RESUSCITATED PATIENTS
JPRS-22012 N64-11226 02-16

COMPUTER PROGRAMS FOR DIAGNOSIS OF HEART AILMENTS
N64-11531 03-20

INTEGRATED PHONOCARDIOGRAPHIC AMPLIFIER FOR TRANSMISSION OF HEART MUSCLE SIGNALS FROM SPACECRAFT
N64-11704 03-16

MEASURING IMPEDANCE CHANGE IN PEAK-TO-PEAK AMPLITUDE ACROSS THORAX & HEART RATE AS BEAT-TO-BEAT DIRECT CURRENT VOLTAGE
SAM-TDR-63-69 N64-11773 03-16

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE AND SHIELDING AGENT ACTION AFTER REPEATED IRRADIATION
JPRS-22082 N64-12886 04-16

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE
N64-12887 04-16

LOW TEMPERATURE EFFECT ON ISOLATED HEARTS OF GROUND SQUIRRELS
AAL-TDR-63-4 N64-13630 05-16

CANCELLATION OF RESPIRATION EFFECTS ON TRANS-THORACIC IMPEDANCE
SAM-TDR-63-99 N64-15745 07-16

CATHETER FOR RIGHT HEART AND PULMONARY ARTERY IMPLANTATION
SAM-TDR-64-10 N64-18910 11-16

DETERMINING HEART PARAMETERS ON BASIS OF SKIN POTENTIAL MEASUREMENTS - MATHEMATICAL MODEL RELATING VENTRICULAR DIPOLES TO SURFACE POTENTIALS
RM-4138-NIH N64-26475 18-16

NORMAL VARIATIONS OF VECTORCARDIOGRAM COMPONENTS IN DOG, CAT, AND RABBIT
JPRS-25599 N64-27318 19-16

IMPEDANCE PLETHYSMOGRAM MEASUREMENT OF HEART OUTPUT
SAM-TDR-64-23 N64-27493 19-16

ELECTRONIC EQUIPMENT FOR RHYTHMIC STIMULATION OF HEART N64-30392 22-16

HEART DISEASE
ELECTRIC STIMULATION OF HEART AS TREATED FOR HEART DISEASE
JPRS-24083 N64-18400 10-16

METHOD OF TREATMENT OF AURICULAR FIBRILLATION
NASA-TT-F-8555 N64-23117 16-16

INTERDEPENDENCE OF FACTORS LEADING TO CORONARY DISEASE
REPT.-9 N64-29995 21-16

HEART FUNCTION
SEISMOCARDIOGRAM CONSTRUCTION FOR CARDIOVASCULAR STUDY OF DOGS HEART ACTIVITIES DURING SPACE FLIGHT
N64-11706 03-16

TESTING HEART FUNCTION BY ANALYSIS OF ITS PRECORDIAL VIBRATION SPECTRUM
NASA-CR-53818 N64-19313 12-16

MACHINE DISCRIMINATION OF SPEECH AND CARDIAC SOUNDS TO MEASURE PILOT STRESS BY CHANGES IN VOICE AND HEART FUNCTION SOUND
NASA-CR-53501 N64-20597 13-14

SYNTHETIC ELECTROCARDIOLOGY - STUDY OF CARDIAC FUNCTIONS
JPRS-25015 N64-21482 14-16

COMPUTER SIMULATION OF HUMAN PHYSIOLOGY FOR DIAGNOSIS OF HEART MALFUNCTION N64-23698 16-16

PHONOCARDIOGRAPH FOR RECORDING HEART SOUND
FTD-TT-63-1193/1&2&4 N64-25458 17-16

UNDERWATER ACOUSTICS, VECTORCARDIOGRAMS, AND NORMAL HEART SOUNDS
JPRS-26103 N64-28431 20-16

HEART RATE
HEARTBEAT MEASUREMENT OF BIRD EMBRYOS WITH MICROMETEORITE TRANSDUCER AS BALLISTOCARDIOGRAPH
NASA-SP-5007 N64-19015 11-16

MEDICAL MONITORING OF HEART RATE PATTERNS DURING

CONDITIONS OF SLEEP, QUIET REST, BREATH-HOLDING, HYPOXIA, AND INCREASED G FORCES OF AIRCRAFT FLIGHT
N64-28950 20-16

HUMAN REACTIONS TO FEARED ELECTRIC SHOCK AND TO PRETENDED PAINFUL STIMULUS SHOWN BY HEART RATE & OTHER PHYSIOLOGICAL CHANGES N64-31459 23-14

HEAT
SA CALORIMETER
SA COMBUSTION HEAT
SA DRY HEAT
SA ENTHALPY
SA FORMATION HEAT
SA HEAT BALANCE
SA HEAT FLUX
SA HEAT PUMP
SA HEAT REGULATION
SA HEAT REJECTION DEVICE
SA HEAT RESISTANCE
SA HEAT TOLERANCE
SA HEAT TRANSFER
SA HEAT TREATMENT
SA NUCLEAR HEAT
SA SOLAR HEAT
SA SPECIFIC HEAT
SA THERMAL FATIGUE
SA THERMAL NOISE
THERMAL ANALYSIS OF SCANNING SPECTROMETER FOR ORBITING SOLAR OBSERVATORY S-57
AFCRL-63-700 N64-12290 03-29

THERMAL, X-RAY, AND MICROSCOPIC ANALYSIS OF PHASE DIAGRAM FOR TERNARY ALLOYS OF IRON, ALUMINUM, AND URANIUM
MCW-TR-1 N64-12907 04-18

LIGHT AND HEAT SENSING
AGARDOGRAPH-71 N64-15452 07-23

INCREASING HEAT OUTPUT OF GAS COOLED REACTORS
FTD-TT-63-114/1&2&3&4 N64-22138 15-10

ARTICLES ON HEAT POWER ENGINEERING
FTD-TT-62-1738/1&2&4 N64-23487 16-01

CONTACT HEAT TRANSFER BETWEEN PLANE METAL SURFACES
TIL/T-5407 N64-27040 19-13

SHADOW TIME AND HEAT INPUT OF EGO SATELLITE
NASA-TM-X-55014 N64-27251 19-32

GALVANIC CELL CONVERSION OF HEAT TO ELECTRICAL ENERGY
IITRI-C6006-10 N64-33715 24-06

HEAT BALANCE
HEAT AND WATER BALANCES IN CLIMATOLOGY - METHODS, COMPUTATION PRECISION, AND RELATIONSHIP
JPRS-23924 N64-18347 10-21

UNBALANCED AUTOMATIC TEMPERATURE GRADIENT METER FOR MEASUREMENTS IN ATMOSPHERE SURFACE LAYER
N64-20217 13-15

COSMIC RADIATION, RADIO ASTRONOMY, METEOROLOGY, THERMAL BALANCE OF EARTH, AND SOLAR SAIL STUDY USING SATELLITES
FTD-TT-64-499/1&2&4 N64-23852 16-29

THERMAL BALANCE OF EARTH SURFACE AND ATMOSPHERE
N64-23860 16-12

HEAT BALANCE OF EARTH N64-24410 17-21

THERMAL INERTIA FACTOR OF SYSTEM OF BODIES & ACTION OF EXTERNAL MEDIUM ON SYSTEM
N64-24524 17-13

HEAT BALANCE METHOD FOR ANALYSIS OF CLIMATIC CHANGE AND POSSIBILITY OF CLIMATE CONTROL
T-R-436 N64-28799 20-21

EFFECT OF LAKE DEPTH AND SIZE ON HEAT BALANCE AND ICE FORMATION
TR-13 N64-30810 22-21

PROFILE AND HEAT BALANCE AT BOTTOM SURFACE OF ICE SHEET FRINGED BY MOUNTAIN RANGE
CRREL-RES. REPT.-134 N64-32520 23-12

CLIMATOLOGY FROM TIROS SATELLITE RADIOMETRY DATA - ATMOSPHERIC MOISTURE AND HEAT BALANCE
NASA-TM-X-55088 N64-33637 24-12

HEAT BUDGET
S ENERGY BUDGET
ATMOSPHERIC HEAT BUDGET IN ARCTIC REGION
N64-24486 17-21

HEAT CAPACITY
HEAT CAPACITIES OF THIN FILMS & RODS AT LOW TEMPERATURES
FTD-TT-63-517/1&2 N64-11191 02-13

LOW TEMPERATURE HEAT CAPACITY & ENTROPY OF AKERMANITE, CORDIERITE, GEHLENITE, & MERWINITE
BM-RI-6343 N64-12121 03-13

ENTHALPY & HEAT CAPACITY OF URANIUM CARBIDE TO 1200-DEG CENTIGRADE
PWAC-426 N64-12720 04-13

CALORIMETRIC DETERMINATION OF HEAT CAPACITIES OF URANIUM ISOTOPES AND THEIR ALLOYS WITH FISSIUM MIXTURE
ANL-6702 N64-12906 04-13

LATTICE HEAT CAPACITY AND THERMODYNAMIC PROPERTIES OF SOLID HYDROGEN AT SMALL MOLAR VOLUME
UCRL-10757 N64-13212 04-19

HEAT CAPACITY IN PERFORATED RADIO AND ELECTRONIC APPARATUS N64-13578 05-13

LOW TEMPERATURE HEAT CAPACITIES AND ENTROPIES AT 298.15 DEG K. OF LEAD MOLYBDATE AND TUNGSTATE
BM-RI-6357 N64-14918 06-19

INFORMATION CAPACITY OF HEAT AND LIGHT SENSORS
N64-15453 07-23

ENTROPY AND HEAT CAPACITY OF ALKALI METALS IN FUSED STATE N64-17190 09-13

ENTHALPY AND HEAT CAPACITY DATA ON CRYSTALLINE AND LIQUID BERYLLIUM FLUORIDE N64-18812 11-13

HEAT CAPACITY OF LIGHT-ELEMENT MIXED METAL COMPOUNDS AND SOLID VAPOR EQUILIBRIUM OF ALUMINUM HALIDES N64-18821 11-13

ENTROPY AND HEAT CAPACITY CALCULATIONS OF CHEMICAL COMPOUNDS AT LOW AND HIGH TEMPERATURES - THERMODYNAMIC PROPERTIES N64-18824 11-13

HEAT CAPACITY OF SODIUM BROMIDE AND SODIUM IODIDE AT LOW TEMPERATURES - THERMODYNAMIC PROPERTIES
BM-RI-6435 N64-18989 11-19

HEAT CAPACITY CALCULATIONS FOR HIGH TEMPERATURES AND APPLICATIONS IN GAS DYNAMICS
R-83 N64-19977 12-13

LOW TEMPERATURE HEAT CAPACITIES AND ENTROPIES OF SULFIDES OF ARSENIC, GERMANIUM, AND NICKEL
BM-RI-6511 N64-28675 20-11

HEAT CAPACITY OF ANTIFERROMAGNETIC COBALT CHLORIDE HYDRATE NEAR NEEL TEMPERATURE
TR-22 N64-30197 21-23

POINT OF INSTABILITY OF GENERAL RELATIVISTIC FLUID SPHERE WITH CONSTANT ENERGY DENSITY AND HEAT CAPACITY
NRC-487 N64-31960 23-23

HEAT CONTENT
HEAT CONTENT-ENTROPY DIAGRAMS FOR COMBUSTION PRODUCTS OF HYDROCARBON & NITROGEN GAS MIXTURE
N64-11973 03-24

STEAM-HYDROGEN SYSTEM - HEAT CONTENT AND HUMIDITY DIAGRAM
RSIC-106 N64-13813 05-23

HEAT CONTENT AND ENTROPY OF ALUMINUM SILICATE CRYSTALS - ANDALUSITES, KYANITE, AND SILLIMANITE

BM-RI-6370 N64-15650 07-19

HEAT CONTENT & ENTROPY MEASUREMENTS OF MUSCOVITES AND DEHYDRATED MUSCOVITES
BM-RI-6371 N64-15990 07-19

HEAT EFFECT
SA THERMAL DEGRADATION
CF TEMPERATURE EFFECT
THERMAL EXCHANGES OF HUMAN BODY IN EXTREME HEAT
AMRL-TDR-63-86 N64-12216 03-16

MECHANICAL AND THERMAL EFFECTS ON CONTACT RESISTANCES
RSIC-116 N64-13765 05-23

EFFECT OF UNSTEADY HEATING ON CHANGE OF MAGNETIC AND ELECTRIC PROPERTIES OF ALLOYS
N64-24533 17-18

HEATING RATE EFFECTS ON TEMPERATURE RANGES IN ELECTROANNEALING OF STEEL N64-25429 17-18

EFFECT OF HEATING ON ROOM TEMPERATURE STRENGTH OF PRISTINE E GLASS RODS
T&AM-252 N64-26826 18-19

HEAT ENGINE
SA AFTERBURNER
SA INTERNAL COMBUSTION ENGINE
SA TURBINE
CF POWER PLANT
HEAT ENGINES FROM STEAM TO GYRATING TYPE, AND CONJECTURES ON FUTURE OF WANKEL AND ORBITAL TYPES
N64-10777 02-27

CRYOGENIC PROPELLANT FEED SYSTEMS FOR ELECTROTHERMAL ENGINES
NASA-CR-52726 N64-11075 02-06

ELECTROTHERMAL ENGINE PROPELLANT STORAGE AND FEED SYSTEM
NASA-CR-52 N64-22017 15-26

CRYOGENIC PROPELLANT FEED SYSTEMS FOR ELECTROTHERMAL ENGINES
NASA-CR-60 N64-25020 17-26

LIQUID HYDROGEN AS PROPELLANT IN ELECTROTHERMAL ENGINE - HYDROGEN STORAGE AND EXPULSION
N64-25021 17-26

RESISTOJET THRUSTOR FOR ELECTROTHERMAL ENGINE
NASA-CR-54104 N64-31011 22-27

HEAT EQUATION
CF PARTIAL DIFFERENTIAL EQUATION
SOLUTION OF SYSTEM OF INTEGRAL EQUATIONS FROM HEAT PROBLEMS - NUMERICAL RESOLUTION AND APPLICATIONS
EUR-249.I N64-10033 01-13

TECHNIQUE OF NUMERICAL INVERSION OF LAPLACE TRANSFORMS AS APPLIED TO HEAT EQUATION FOR INHOMOGENEOUS MEDIUM
RR-3974-NIH N64-19973 12-20

HEAT CALCULATIONS FOR LOW-POWER TRANSFORMERS
N64-24554 17-09

SOLUTION OF HEAT DISTRIBUTION EQUATIONS BY METHOD OF ZONE
NASA-CR-56800 N64-29551 21-13

GREEN FUNCTION FOR BOUNDARY VALUE PROBLEMS IN HEAT CONDUCTION EQUATION
NASA-TT-F-9087 N64-31333 22-23

RADIAL HEAT POLYNOMIALS AND RELATED FUNCTIONS
NASA-CR-59339 N64-33802 24-20

HEAT EXCHANGER
FABRICATION OF HEAT EXCHANGER TUBE BUNDLE FOR MOLTEN-SALT REACTOR EXPERIMENT
ORNL-3500 N64-11592 03-13

MATERIAL SELECTION AND FABRICATION TECHNIQUES FOR LIGHTWEIGHT HEAT EXCHANGERS OF ADVANCED POWER SYSTEMS
ASD-TR-7-936/5/ N64-12828 04-13

HIGH AND LOW TEMPERATURE REFRACTORY METAL PRECOOLERS - FORMING, JOINING, TESTING, AND COATING OF METAL FOIL HEAT EXCHANGERS
ER-1245-8 N64-14657 06-13

PORTABLE THERMOPHOTOVOLTAIC CONVERTER - GERMANIUM PHOTOVOLTAIC CELLS, REFLECTANCE GONIOMETER, AND HEAT EXCHANGER
TR64-04 N64-15378 07-06

CALCULATION METHOD FOR DETERMINING THERMAL CONTACT RESISTANCE BETWEEN TWO ROUGH SURFACES
RSIC-117 N64-15569 07-13

ANGLE FACTORS FOR DIFFUSE RADIANT ENERGY INTERCHANGE BETWEEN PARALLEL CYLINDRICAL TUBES - APPLICATION TO TUBULAR HEAT EXCHANGER
N64-15929 07-13

FREEZING OUT MOISTURE AND CARBON DIOXIDE IN TUBULAR HEAT EXCHANGERS
FTD-TT-63-320/1&2&4 N64-16365 08-13

WALL TEMPERATURES IN TUBE OF HEAT EXCHANGER WITH FORCED CONVECTION
NASA-TN-D-2116 N64-16929 09-13

LIQUID HYDROGEN TURBINE-POWER ABSORBER AND HEAT EXCHANGER RECOVERY SYSTEMS
NASA-CR-54010 N64-18417 10-06

PERFORMANCE OF TWO TYPES OF RESISTANCE-HEATED HYDROGEN THRUSTORS - TUBULAR AND WIRE-COIL HEAT EXCHANGERS
NASA-TN-D-2281 N64-19293 11-27

FEASIBILITY OF VAPORIZING HYDROCARBON FUELS IN VAPORIZING HEAT EXCHANGER PRIOR TO COMBUSTION FOR INCREASING HEAT SINK CAPACITY
ASD-TDR-62-920, PT. 2 N64-20125 13-26

DIRECT CONTACT HEAT EXCHANGERS FOR EVAPORATORS AND CONDENSERS IN REFRIGERATING EQUIPMENT
RSIC-162 N64-20323 13-13

OPTIMUM FLOW TEMPERATURE, FLIGHT VELOCITY, AND OTHER PARAMETERS OF SUPERSONIC RAMJET ENGINE WITH HEAT EXCHANGER
TIL/T-5396 N64-20867 14-26

SPIRAL BAND HEAT EXCHANGER
FTD-TT-62-292/1&2&4 N64-22154 15-10

FREEZEOUT MECHANISMS FOR WASTES & CARBON DIOXIDE AND PREDICTION METHOD FOR CONTAMINANT DEPOSITION ON HEAT EXCHANGER
ASD-TDR-63-508, VOL. 2 N64-23359 16-13

WATER AND CARBON DIOXIDE FREEZEOUT IN HEAT EXCHANGERS
ASD-TDR-63-508, VOL. 3 N64-23360 16-13

LIGHTWEIGHT HEAT EXCHANGER
ASD-TR-7-936 /VI/ N64-25041 17-13

APPROXIMATE TRANSFER FUNCTION OF HEAT EXCHANGER DESCRIBED BY PARTIAL DIFFERENTIAL EQUATIONS
N64-25432 17-13

PEFORMANCE CHARACTERISTICS OF AIR TURBO-EXCHANGER ENGINE
MF-180 N64-26801 18-27

TURBULENT UNIFORM FLOW THROUGH SCREEN MATRIX ORIENTED PARALLEL TO MAIN FLOW
TR-60 N64-27784 19-11

LIQUID MONOETHANOLAMINE INJECTION AND COOLANT INTERRUPTION TECHNIQUES FOR CONTROLLING HEAT EXCHANGER CONTAMINATION
REPT.-6058 N64-27920 20-06

REFRACTORY OXIDE MATERIALS FOR USE IN HIGH TEMPERATURE PEBBLE-BED WIND TUNNEL HEAT EXCHANGERS
NASA-TN-D-2493 N64-30102 21-17

CONVECTIVE HEAT TRANSFER AND FLOW FRICTION CHARACTERISTICS OF SKEWED PASSAGE AND GLASS-CERAMIC COMPACT HEAT EXCHANGER SURFACES FOR

GAS TURBINE REGENERATOR DESIGN
TR-59 N64-30919 22-13

LIGHTWEIGHT METAL FOIL HEAT EXCHANGERS FOR HYDROGEN PRECOOLING IN AEROSPACE VEHICLES
ITR-5 N64-31268 22-13

INTERNAL HEAT EXCHANGE IN POROUS STAINLESS STEEL DURING AIR COOLING
FTD-MT-63-210 N64-32044 23-13

HEAT TRANSFER STUDIES OF VAPOR CONDENSING AT HIGH VELOCITIES IN SMALL, STRAIGHT TUBES
NASA-CR-124 N64-32433 23-13

HEAT EXCHANGER CORE COMPACTNESS
AD-446233 N64-33764 24-06

HEAT FLOW
TEMPERATURE DISTRIBUTION IN PERFORATED CIRCLE FOR HEAT FLOW DETERMINATION OF TUBE-IN-SHELL FUEL ELEMENT
AECL-1835 N64-10379 01-13

SECOND ORDER PERTURBATIONS IN GRAVITATIONAL FIELD CORRELATION WITH HEAT FLOW DISTRIBUTION ON EARTH SURFACE
NASA-CR-52496 N64-10601 01-13

ISOTHERMAL HEAT FLOW CALORIMETER FOR LARGE VOLUME SAMPLES
UCRL-7490 N64-11474 03-15

EFFECTS OF SPECIES DIFFUSION AND HEAT CONDUCTION ON NONEQUILIBRIUM FLOWS BEHIND STRONG SHOCK WAVES
NASA-CR-55178 N64-13333 04-11

TWO-DIMENSIONAL ANALYSIS OF TRANSIENT HEAT CONDUCTION IN SEGMENT OF HOLLOW CIRCULAR CYLINDER
OR-3351 N64-14817 06-13

DISTRIBUTION OF RADIOACTIVE MATERIAL AND HEAT FLOW THROUGH EARTH CRUST
NASA-CR-55852 N64-16722 08-12

DEPENDENCE OF CRITICAL HEAT FLOW ON MACHINING OF HEATING SURFACE WITH BULK BOILING
N64-17191 09-13

DYNAMIC PROPERTIES OF STELLAR CORONAS & STELLAR WINDS AND INTEGRATION OF HEAT-FLOW EQUATION
N64-18280 10-28

THERMAL CONDUCTIVITY OF URANIUM DIOXIDE AND ARMCO IRON BY AN IMPROVED RADIAL HEAT FLOW TECHNIQUE
ORNL-3556 N64-21483 14-13

RADIAL HEAT FLOW APPARATUS FOR HIGH TEMPERATURE THERMOCONDUCTIVITY MEASUREMENTS
GEMP-296 N64-29391 21-15

NONSTATIONARY, ONE-DIMENSIONAL HEAT FLOW IN LEVEL PLANE, CYLINDER, SPHERE, AND SEMIINFINITE BODY BY FOURIER EQUATIONS N64-32182 23-13

HEAT FLUX
TIROS SATELLITE THERMAL FLUX INFRARED DATA
NASA-RP-80 N64-10620 01-23

ROTATING-SPECIMEN FURNACE FOR USE IN DETERMINING SPECTRAL & TOTAL EMITTANCE OF MATERIALS FROM MEASUREMENT OF RADIANT FLUX FROM SPECIMEN SURFACE
N64-10969 02-13

THREE SERIES OF COBALT-60 STANDARDS FOR INTEGRATED THERMAL FLUX MEASUREMENTS
EUR-422.E N64-11311 02-23

THERMAL & HYDRAULIC CHARACTERISTICS OF ROD BUNDLES COOLED BY FORCED FLOW OF WATER WITH BULK BOILING AT HIGH PRESSURE
DP-857 N64-11777 03-13

TURBULENT EXCHANGE IN GROUND LAYER DURING WINTER IN PEKING - AUSTAUSCH COEFFICIENT AND HEAT FLUX TRANSFER
E-T-CH-63-7 N64-13861 05-12

INTERACTION BETWEEN LOWER ATMOSPHERE AND SEA SURFACE - HEAT FLUX & SURFACE STRESS
REPT.-63-46 N64-16502 08-21

EXPOSURE OF POLYMERIC MATERIALS TO HEAT FLUXES USING ARC IMAGING FURNACE
NASA-CR-53256 N64-17494 09-19

CRITICAL HEAT FLUXES DURING LIQUID FLOW
RSIC-129 N64-17637 09-13

HEAT FLUX MEASUREMENTS IN NUCLEATE BOILING HEAT TRANSFER USING SURFACE THERMOCOUPLES
IS-810 N64-17740 09-13

NONLINEAR ANALOG NETWORK FOR CONVERTING SURFACE TEMPERATURE TO HEAT FLUX - USE WITH THIN FILM RESISTANCE THERMOMETERS
CAL-130 N64-18176 10-15

EVAPORATION AND SENSIBLE HEAT FLUX OVER ARCTIC OCEAN - ENERGY TRANSFER FROM SURFACE TO ATMOSPHERE
AFCRL-64-272 N64-20164 13-21

SLUG TYPE HEAT-FLUX METERS - DESIGN PARAMETERS
NASA-CR-56137 N64-20727 13-15

GALERKIN METHOD AND DOUBLE P APPROXIMATION FOR CALCULATION OF THERMAL NEUTRON FLUX
EUR-533.I N64-20874 14-13

EFFECT OF HIGH THERMAL RADIATION FLUX ON SEVERAL METAL ALLOYS
AL-TDR-64-27 N64-21802 15-18

BOILING BURNOUT HEAT FLUXES FOR REACTOR FUEL ELEMENT BUNDLES
HW-80391, REV. 1 N64-22946 16-26

MATERIAL ABLATION TO ALLEVIATE HIGH HEAT FLUX
N64-26158 18-13

RADIATION HEAT METERS OF SLUG CALORIMETER TYPE FOR MEASURING INCIDENT RADIATION HEAT FLUX
TM-14-63-U29 N64-29237 21-15

BEHAVIOR OF ROCKET NOZZLE MATERIALS EXPOSED TO HIGH HEAT FLUX AND HIGH VELOCITY GAS FLOW
QPR-1 N64-30960 22-19

BOUNDARY LAYER LAMINARIZATION EFFECT ON HEAT FLUX OF ROCKET NOZZLE THROAT REGION
C-910100-11 N64-31318 22-11

LAMINAR FREE CONVECTION FROM HORIZONTAL CYLINDER WITH WALL SURFACE HEAT FLUX
D1-82-0282 N64-31326 22-13

CALCULATION OF HEAT FLUXES IN FLOW OF SUPERSONIC STREAMS AROUND FLAT AND RING-SHAPED SHOULDER
FTD-TT-64-364/1&2 N64-31798 23-13

LAMINARIZATION OF NOZZLE WALL BOUNDARY LAYERS TO REDUCE HEAT FLUX
C-910100-9 N64-32390 23-13

DETERMINING TRANSIENT HEAT FLUX TO PLANE OR CYLINDRICAL SURFACE OF ISOTROPIC MATERIAL FROM TRANSIENT TEMPERATURE MEASUREMENTS
NASA-CR-59208 N64-32994 24-13

PARAMETRIC STUDY AND COMPUTER PROGRAM FOR HEAT FLUXES ON SATELLITE ORBITING NEAR VENUS AND MARS
NASA-CR-59281 N64-33705 24-20

HEAT RADIATION
GENERALIZED DEPENDENCIES FOR CALCULATING HEAT EMISSION DURING BLISTERED BOILING OF LIQUIDS
RSIC-101 N64-13889 05-11

HEAT REGULATION
CF THERMOREGULATION
HEATING VELOCITY INFLUENCE ON KINETICS OF CALCINING MINERAL SUBSTANCES N64-11976 03-13

APPLICATION OF SIMILARITY HYPOTHESIS TO HEAT ENGINEERING
RSIC-234 N64-29925 21-13

HEAT REJECTION DEVICE
SA RADIATOR
HEAT REJECTION & WEIGHT CHARACTERISTICS OF RADIATOR FIN-TUBE CONFIGURATIONS
NASA-TN-D-2385 N64-25605 17-13

HEAT TRANSFER AND WEIGHT ANALYSIS OF MOVING-BELT RADIATOR SYSTEM FOR WASTE HEAT REJECTION IN SPACE
NASA-TN-D-1990 N64-26411 18-13

HEAT RESISTANCE
RADIOACTIVE CARBON DETERMINATION OF TEMPERATURE OF METAL OXIDES AND HEAT RESISTANCE OF METAL CARBIDE BASE ALLOYS
JPRS-18731 N64-10579 01-18

HEAT RESISTANT COMPOUNDS OF TRANSITION ELEMENTS - LATTICE STRUCTURE, X RAY SPECTROSCOPY, PHYSICAL PROPERTIES OF REFRACTORY MATERIAL
JPRS-17446 N64-10669 02-01

EFFECT OF DISLOCATIONS & VACANCIES ON FATIGUE, BRITTLE FRACTURE, PLASTIC PROPERTIES, AND HEAT RESISTANCE OF METALS
JPRS-18817 N64-10789 02-18

ANNIHILATION OF VACANCIES DURING CREEP WITH REPLACEMENT BY NITROGEN, BORON, OR CARBON AS A FACTOR IN INCREASED HEAT-RESISTANCE IN STEEL
N64-10792 02-18

ELECTROSLAG REMELTING OF HEAT-RESISTANT STAINLESS STEELS N64-10849 02-18

ELECTROSLAG REMELTING OF HEAT-RESISTANT STAINLESS STEEL FOR MACROSTRUCTURE IMPROVEMENT, REDUCTION OF CONTAMINATION, AND REJECT RATE REDUCTION
JPRS-22149 N64-11360 02-18

WETTING & IMPREGNATION OF TITANIUM AND ZIRCONIUM NITRIDE BRIQUETS BY MOLTEN COBALT AND NICKEL TO PRODUCE HEAT- AND WEAR-RESISTANT MATERIALS
N64-11481 03-18

HEAT RESISTANT ZINC AND CADMIUM CONVERSION COATINGS FOR STEEL
RIA-TR-63-3345 N64-11536 03-18

MEASUREMENT OF HEAT RESISTANCE BETWEEN FLAT SURFACES OF URANIUM & ALUMINUM IN CONTACT
RSIC-99 N64-11538 03-18

MACHINABILITY OF HEAT-RESISTANT & TITANIUM ALLOYS
FTD-TT-62-1257/1&2 N64-12837 04-17

THERMAL STABILITY OF HEAT-RESISTANT ALLOYS
FTD-TT-63-147/1&2 N64-12838 04-18

SYNTHESIS OF HEAT RESISTANT ELASTOMERS AND EVALUATION FOR IMPROVED THERMAL STABILITY
RIA-63-3591 N64-12977 04-13

HEAT-RESISTANT STEELS & ALLOYS - ALLOYING ELEMENTS AND USE IN GAS-TURBINE INSTALLATIONS
JPRS-22781 N64-13349 04-18

GRAIN PROCESSING OF HIGH TEMPERATURE RESISTANT PROPELLANTS
RTD-TDR-63-4209 N64-16080 07-26

ELECTRIC SPARK WORKING OF HEAT-RESISTANT NICKEL BASE ALLOYS N64-16235 08-17

RELATIONSHIP BETWEEN BIOCHEMILUMINESCENCE AND HEAT RESISTANCE OF PLANTS
JPRS-23735 N64-16950 09-16

RELATION BETWEEN DIFFUSION AND HIGH TEMPERATURE RESISTANCE TO PLASTIC DEFORMATION OF NICKEL ALLOYS
N64-17037 09-18

METAL FORMING, MACHINING, & FINISHING COMPONENTS FABICATED FROM HEAT RESISTANT ALLOYS, STAINLESS STEEL, & TITANIUM ALLOYS
FTD-TT-63-344/1&2 N64-17076 09-17

HEAT RESISTANT ALLOYS N64-17077 09-17

ALUMINIZATION OF HEAT RESISTANT AND CORROSION RESISTANT ALLOYS & MATERIALS N64-17078 09-17

THERMOMECHANICAL PROCEDURE OF PRESSURE WORKING HIGH MELTING HEAT RESISTANT MOLYBDENUM & CHROMIUM
N64-17081 09-17

WORK HARDENING OF HEAT RESISTANT AND THERMAL-SHOCK RESISTANT STEEL N64-17082 09-17

STAMPING-COLD DRAWING OF HEAT RESISTANT SHEET METAL N64-17083 09-17

SHEET STAMPING HEAT RESISTANT ALLOYS & TITANIUM ALLOYS - METALWORKING N64-17085 09-17

METALWORKING - FASTENERS, BOLTS, & RIVETS FROM HEAT RESISTANT STEELS N64-17086 09-17

FABRICATING TURBINE BLADE BLANK FROM HEAT RESISTANT ALLOYS N64-17088 09-17

WELDING TURBINE COMPONENTS FABRICATED FROM HEAT RESISTANT ALLOYS N64-17090 09-17

ARC WELDING, PLASMA ARC & ARCLESS ELECTRIC FUSION WELDING OF HEAT RESISTANT ALLOYS
N64-17091 09-17

INERT-GAS SHIELDED ARC WELDING OF HEAT RESISTANT ALLOYS N64-17092 09-17

MACHINABILITY OF HEAT RESISTANT STEELS & ALLOYS IN TURNING, MILLING, AND DRILLING WITH CARBIDE-TIPPED CUTTING TOOLS N64-17096 09-17

MACHINING HEAT RESISTANT ALLOYS
N64-17098 09-17

ELECTRIC-PULSE MACHINING OF HEAT RESISTANT ALLOYS
N64-17099 09-17

MACHINING STAINLESS STEELS & HEAT RESISTANT ALLOYS
N64-17102 09-17

MACHINING HEAT RESISTANT MATERIALS & TITANIUM ALLOYS N64-17105 09-17

METAL FORMING, MACHINING, & FINISHING OF HEAT RESISTANT ALLOYS N64-17106 09-17

DURABILITY, CREEP, AND THERMAL FATIGUE OF HEAT RESISTANT & REFRACTORY MATERIALS SUCH AS CERMETS & ALLOYS
JPRS-24166 N64-18296 10-18

PRECISION CASTING OF HEAT RESISTANT ALLOYS IN VACUUM N64-18531 11-17

IMPURITY EFFECT ON HEAT RESISTANCE OF ALUMINUM-BASED COPPER ALLOYS
FTD-MT-63-148 N64-18686 11-18

POLYMER CHEMISTRY - MECHANICAL STRENGTHS OF HEAT RESISTANT POLYIMIDE AND POLYBENZIMIDAZOLE RESINS
SM-44660 N64-18710 11-19

METHOD FOR OBTAINING HEAT RESISTANT PARAMAGNETIC POLYMER BY REACTION OF DIAMINE WITH QUINONE
FTD-TT-62-1882/1&4 N64-21968 15-07

IDENTIFICATION OF HEAT-RESISTANT IRON-NICKEL-CHROMIUM ALLOYS
FTD-TT-63-12/1&2 N64-22137 15-18

SCALE-, ACID-, AND HEAT-RESISTANT STAINLESS STEELS AND ALLOYS
FTD-TT-63-353/1&2&4 N64-22185 15-18

COMPARISON OF HEAT AND CORROSION RESISTANCE OF COATINGS ON MAGNESIUM ALLOY
A731 N64-22577 15-18

STRUCTURAL STATE AND HEAT RESISTANCE OF ALLOYS
FTD-TT-62-1756/1&2 N64-22634 15-18

BIOCHEMICAL COMPOUND TO RAISE THERMAL RESISTANCE OF ORGANISMS N64-22729 16-16

AGE-HARDENING CHARACTERISTICS OF NICKEL-BASE HEAT

RESISTANT ALLOYS
JPRS-25004 N64-22733 16-18

WELDING OF AUSTENITIC HEAT RESISTANT STEELS AND ALLOYS USED IN BUILDING GAS TURBINES
JPRS-25100 N64-22736 16-17

MECHANICAL PROPERTIES OF COMMERCIAL NICKEL BASE HEAT RESISTANT ALLOYS
JPRS-24919 N64-22745 16-18

HEAT AND EROSION RESISTANT MATERIALS
FTD-TT-62-1252/1&2 N64-23316 16-01

HEAT RESISTANCE, NUCLEAR PROPERTIES, AND THERMAL IMPACT RESISTANCE OF BERYLLIUM OXIDE
FTD-TT-62-1712/1&2 N64-23407 16-19

ALLOYING OF AUSTENITIC STEELS AND SEAMS WELDED ON STEELS WITH BORON TO INCREASE HEAT RESISTANCE
N64-24255 17-18

STRUCTURAL CHANGES DURING UNSTEADY HEATING OF NOZZLE VANES MADE FROM CAST NICKEL BASE HEAT RESISTANT ALLOY N64-24531 17-18

CASTING PROPERTIES OF HEAT-RESISTING ALLOYS
JPRS-24969 N64-24582 17-18

PRIMARY CRYSTALLIZATION OF HEAT-RESISTING ALLOYS
N64-24583 17-18

STRUCTURE AND PROPERTIES OF THIN-WALL CASTINGS FROM HEAT-RESISTANT ALLOYS N64-24584 17-18

PRODUCTION OF CAST TURBINE BLADES FROM HEAT-RESISTANT ALLOYS N64-24585 17-17

EVALUATION OF HEAT RESISTANT, RAIN-EROSION-RESISTANT COATING
BMPR 4 N64-25365 17-19

HEAT RESISTING ALLOYS FOR TURBINE AND COMPRESSOR BLADES
JPRS-24845 N64-25852 18-18

METALLURGY AND PHYSICAL PROPERTIES OF HEAT RESISTANT REFRACTORY ALLOYS
FTD-MT-63-206 N64-26093 18-18

FIRE RESISTANT WATER BASE HYDRAULIC FLUID
BR-1 N64-26429 18-17

THERMAL RESISTANCE AT SURFACE OF METALS IN CONTACT
RSIC-215 N64-27051 19-13

METAL FORMING AND HEAT RESISTANCE STUDY OF REFRACTORY METALS FOR ROCKET ENGINE APPLICATIONS
N64-27602 19-18

HEAT AND ABRASION RESISTANT PROPERTIES OF SILICON-NITROGEN COMPOUNDS FOR PROTECTIVE COATINGS
REPT.-6784-1533-V N64-27643 19-17

EFFECT OF CERIUM ON MECHANICAL PROPERTIES OF CAST, HEAT-RESISTANT, CHROMIUM-MOLYBDENUM-VANADIUM STEEL
N64-29043 21-18

INFLUENCE OF PROCESSING FACTORS ON MECHANICAL PROPERTIES OF HEAT-RESISTANT NICKEL-FREE CHROMIUM-MANGANESE STEEL N64-29044 21-18

CASTING IMPELLER BLADES OF HEAT RESISTANT STEEL FOR TURBOCOMPRESSOR N64-29045 21-18

FUSION WELDING OF HEAT RESISTANT SINTERED ALUMINUM POWDER
JPRS-26793 N64-31473 23-18

THERMAL RESISTANCE OF TURBINE BLADE ROOT JOINTS
RSIC-261 N64-32495 23-13

HEAT SHIELD
SA THERMAL PROTECTION
OPTIMIZATION OF ACTIVELY COOLED HEAT SHIELD SYSTEM WITH EQUAL WEIGHT OF WATER & INSULATION
REPT. 00.256 N64-11344 02-13

PROPERTIES OF INSULATING MATERIALS FOR LIGHTWEIGHT THERMAL PROTECTION SYSTEMS
ASD-TDR-63-596, VOL. 2 N64-11772 03-13

POLYMERS SUITABLE FOR CASE INSULATION IN END-BURNING SOLID PROPELLANT ROCKET MOTORS
AD-421808 N64-12359 03-19

THERMAL INSULATOR FOR MERCURY CAPSULE
A261 N64-13252 04-13

HEAT TRANSFER PROCESSES AND INSULATION PERFORMANCE IN AEROSPACE APPLICATIONS
ASD-TDR-63-699 N64-14115 05-13

AERODYNAMIC FACTORS AFFECTING DESIGN OF ORBITING REENTRY VEHICLES - HEAT SHIELD, DRAG, AND LIFT
ER-673, VOL. 1 N64-15193 07-30

RADIATIVE HEAT TRANSFER IN LOW DENSITY CERAMICS WITH BARRIER PHASE IN REFRACTORY STRUCTURE - THERMAL INSULATING MATERIAL
NASA-CR-55559 N64-15533 07-19

NOSE CAPS INCORPORATING APOLLO HEAT SHIELD MATERIAL FOR USE IN SCOUT PAYLOADS
RAD-TR-63-44 N64-15774 07-30

HIGH TEMPERATURE THERMAL INSULATION MATERIALS WITH EMPHASIS ON EFFECT OF INTERNAL RADIATION BARRIERS OF ZIRCONIA FOAMS
NASA-CR-53201 N64-17591 09-19

THERMAL STRESS, AND DESIGN ANALYSIS OF S-1C HEAT SHIELD PANELS USING BRAZED STAINLESS STEEL HONEYCOMB SANDWICH CONSTRUCTION
NASA-CR-53315 N64-17765 09-13

BRAZING QUALITY, ANALYSIS OF VOIDS, AND REPAIR METHODS FOR HEAT SHIELDS
NASA-CR-53390 N64-18292 10-17

REFRASIL FIBERGLASS BATT LIQUID LOCK MATERIAL AND CAPILLARY TUBE CONFIGURATIONS FOR ZERO GRAVITY WATER SEPARATOR SYSTEMS
NA-63-1097 N64-19303 12-06

THERMOCONDUCTIVITY OF THERMAL INSULATION PANELS IN F-111 AIRCRAFT
FTDM-3174 N64-20059 13-34

TRANSIENT TEMPERATURE RESPONSE OF SIX COMPOSITE FIBERGLASS-METAL INSULATION PANELS FOR F-111 AIRCRAFT
FTDM-3219 N64-20067 13-17

ABLATION MATERIALS FOR NOZZLES, THERMAL INSULATORS AND INERT COMPONENTS OF MISSILE PROPULSION SYSTEMS
NOLTR-63-255 N64-20348 13-27

EFFECT OF WEIGHT, DENSITY, AND HEAT LOAD ON PERFORMANCE OF HEAT SHIELD OF PHENOLIC RESIN AND NYLON POWDER
NASA-TN-D-2196 N64-22021 15-19

THERMAL DESIGN AND EVALUATION OF ATMOSPHERIC ENTRY HEAT SHIELDS
AIAA PAPER-64-259 N64-22093 15-13

PEARLITE MATERIALS FOR THERMAL & ACOUSTIC INSULATION
FTD-TT-63-354/1&2&4 N64-22184 15-19

THERMAL INSULATION SYSTEM FOR X-20 AIRCRAFT - DYNA-SOAR SPACE GLIDER
D2-80283 N64-22245 15-13

THERMOPHYSICAL PROPERTIES OF THERMAL INSULATING MATERIALS
ML-TDR-64-5 N64-22689 15-19

LOW DENSITY THERMAL INSULATION MATERIALS FOR USE ABOVE 3000 DEG F
NASA-CR-56546 N64-23530 16-13

FOIL-GAUGE COATED METAL FOR HEAT SHIELD USE
N64-27023 19-18

HEAT SHIELD BODY PANEL OF NIOBIUM ALLOY SUBJECTED

TO PFAUDLER COATING CYCLE N64-27024 19-18

GRAPHITE COMPOSITE MATERIALS FOR HEAT SHIELD OR ROCKET NOZZLE N64-27033 19-19

TRANSIENT HEAT TRANSFER AND STRESS ANALYSIS OF BASE HEAT SHIELD PANEL OF SATURN IC LAUNCH VEHICLE
NASA-CR-58045 N64-27269 19-13

THERMAL STRAIN ANALYSIS OF HEAT SHIELDS FOR MANNED SPACECRAFT - EQUATION DERIVATION AND FINITE DIFFERENCE FORMULATION
NASA-CR-54717 N64-30351 22-13

THERMAL STRESS OF HEAT SHIELD FOR MANNED SPACECRAFT WITH DERIVATION OF BASIC EQUILIBRIUM AND STRESS EQUATIONS
NASA-CR-54718 N64-30352 22-13

THERMAL STRAIN ANALYSIS OF HEAT SHIELDS FOR MANNED SPACECRAFT - EQUATION DERIVATION AND ENGINEERING MODEL
NASA-CR-54721 N64-30353 22-13

THERMAL STRAIN ANALYSIS OF HEAT SHIELDS FOR MANNED SPACECRAFT - BOUNDARY CONDITIONS AND ANALYSIS
NASA-CR-54120 N64-30354 22-13

THERMAL STRAIN ANALYSIS OF MANNED SPACECRAFT HEAT SHIELDS - BOUNDARY CONDITIONS, ENGINEERING MODELS, AXISYMMETRY, AND COMPUTER PROGRAM
NASA-CR-54719 N64-30355 22-13

HEAT SHIELD/STRUCTURE INTERFACE PROBLEMS PRODUCED BY ENVIRONMENT ASSOCIATED WITH APOLLO LUNAR FLIGHT
LMSC-5-10-63-17 N64-32343 23-13

ABLATION SENSORS FOR MEASURING POSITION AND MOVEMENT OF INTERNAL DEGRADATION ZONES IN PHENOLIC-GRAPHITE HEAT SHIELDS
SSD-TDR-64-173 N64-32525 23-15

THERMAL EFFICIENCY AND TRANSMISSIVITY OF ABLATING HEAT SHIELD MATERIALS
NASA-TN-D-1896 N64-33601 24-13

HEAT SINK
FEASIBILITY OF VAPORIZING HYDROCARBON FUELS IN VAPORIZING HEAT EXCHANGER PRIOR TO COMBUSTION FOR INCREASING HEAT SINK CAPACITY
ASD-TDR-62-920, PT. 2 N64-20125 13-26

THERMODYNAMIC SYSTEM FOR TEMPERATURE CONTROL OF HEAT SINKS IN SPACE SIMULATION CHAMBERS
AEDC-TDR-64-121 N64-21718 15-13

SPECIFICATIONS FOR HEAT SINK FUELS FOR HYPERSONIC AIRCRAFT
S-13911 N64-25780 17-26

CATALYTIC REACTIONS AND THERMAL STABILITIES OF HYDROCARBON HEAT SINK FUELS
APL-TDR-64-100, PT. 1 N64-31741 23-26

SHELTER COOLING - NUCLEAR RADIATION EFFECTS, MAINTENANCE, HEAT SINK, REFRIGERATION, AND DEHUMIDIFICATION
AD-446445 N64-33111 24-13

HEAT SOURCE
STRONTIUM TITANATE RADIOISOTOPE HEAT SOURCE FOR SNAP-7B THERMOELECTRIC GENERATOR
MND-P-2977 N64-12390 03-06

POWER FLATTENING STUDY - EXPONENTIAL DECAY OF RADIOISOTOPIC HEAT SOURCE OF THERMOELECTRIC GENERATOR
NYO-9783 N64-15332 07-06

EQUATIONS FOR MOTION AND INTERNAL ENERGY BALANCE OF SELF-GRAVITATING SPHERICAL LIQUID MASS WITH INTERNAL HEAT SOURCE
REPT. 562/07//53 N64-21164 14-23

WICK-FED BURNER WITH SIMULATED FLAT DIODE AS HEAT SOURCE FOR THERMIONIC POWER GENERATORS
REPT.-1 N64-25316 17-06

CATALYTIC COMBUSTION HEAT SOURCES FOR THERMAL ENERGY CONVERTERS
F-82088 N64-29914 21-06

SCAN HEAT AND HEAT SUPPORT TECHNIQUES FOR THERMAL INSPECTION OF NONDESTRUCTIVE METALLIC AND CERAMIC MATERIALS
ASD-TDR-62-385, PT. III N64-31939 23-17

THERMIONIC GENERATOR DEVELOPING POTENTIAL VOLTAGE FROM LIQUID METAL HEAT SOURCE
QTR-7 N64-32605 23-06

HEAT TRANSFER
SA AERODYNAMIC HEAT TRANSFER
SA CONDUCTIVE HEAT TRANSFER
SA CONVECTIVE HEAT TRANSFER
SA RADIATIVE HEAT TRANSFER
SA THERMAL DIFFUSION
SA THERMAL EXPANSION
SA THERMAL RADIATION
CF NUCLEATE BOILING
CF THERMODYNAMICS
CF TRANSPORT PROPERTY
MEASUREMENTS OF HYPERVELOCITY STAGNATION POINT HEAT TRANSFER IN SIMULATED VENUSIAN ATMOSPHERE
NASA-CR-52201 N64-10102 01-13

ADJUSTMENT OF SEPARATED FLOW REGIONS WITH RESPECT TO PRESSURE, MASS, AND HEAT TRANSFER TO TRANSIENT EXTERNAL FLOW N64-10142 01-11

LIQUID METALS AS HEAT TRANSFER AND THERMODYNAMIC WORKING FLUIDS FOR AEROSPACE ELECTRIC POWER SUPPLY N64-10176 01-18

FLOW DEVELOPMENT & HEAT TRANSFER CHARACTERISTICS OF PLANE TURBULENT IMPINGING JETS N64-11253 02-02

EFFECT OF NOZZLE EXPANSION RATIO INCREASE ON HEAT TRANSFER, CHEMICAL KINETICS, WALL FRICTION AND NOZZLE GEOMETRY - SPACECRAFT ENGINE PERFORMANCE
NASA-CR-52870 N64-11438 02-27

RELATION BETWEEN HEAT EXCHANGE AND MOISTURE AT OCEAN-ATMOSPHERE INTERFACE - DEVELOPMENT OF CYCLONES IN NORTH ATLANTIC OCEAN N64-11602 03-21

HEAT TRANSFER IN LAMINAR FLOW WITH INDUCED REVERSE MOVING LAYER OF FLUID
AFOSR-5330 N64-11746 03-13

ERROR DUE TO HEAT TRANSFER TO GASEOUS MEDIUM IN READING OF THERMOCOUPLE PASSING THROUGH FLAME
AMC-TRANS-42-62 N64-11914 03-15

APPROXIMATION THEORY FOR COMPRESSIBLE LAMINAR BOUNDARY LAYER WITH HEAT TRANSFER
DVL-281 N64-11952 03-11

HYDRODYNAMIC THEORY OF HEAT EXCHANGE APPLIED TO TRANSONIC FLOW N64-11969 03-11

HEAT EXCHANGE BETWEEN GAS-TURBINE DISK AND COOLING SCREEN WITH ARBITRARY TEMPERATURE DISTRIBUTION N64-11970 03-13

LAMINAR MAGNETOHYDRODYNAMIC BOUNDARY LAYER AND HEAT TRANSFER IN FLOW AROUND CIRCULAR CYLINDER
NASA-CR-52978 N64-12024 03-23

STAGNATION POINT HEAT TRANSFER IN A RELAXING GAS
TDR-269/4305/-1 N64-12061 03-13

VISCOUS EFFECT AND HEAT TRANSFER IN SEPARATED FLOW
AFOSR-4712 N64-12180 03-13

PRESSURE & HEAT TRANSFER DATA FOR HYPERSONIC FLOWS OVER EXPANSION CORNERS AND AHEAD OF RAMPS
ASD-TDR-63-679, PT. 1 N64-12228 03-13

FRICTION, HEAT TRANSFER, AND MASS TRANSFER COEFFICIENTS FOR CONSTANT PROPERTY TURBULENT BOUNDARY LAYER ON FLAT PLATE
NOLTR-63-77 N64-12259 03-11

SUBCOOLED OR SATURATED TWO-PHASE ONE-COMPONENT

FLOW IN VERTICAL GLASS TUBE WITH HEAT TRANSFER
REPT.-8973-1 N64-12965 04-13

HEAT TRANSFER IN BOILING LIQUID METALS
AD-423769 N64-12981 04-13

EFFECTIVE GAUGE LENGTH OF BONDED-END TENSILE SPECIMEN AND HEAT CONDUCTION IN STAR-PERFORATED SOLID PROPELLANT GRAINS
P-63-20 N64-12984 04-20

CALORIMETRIC METHOD OF MEASURING HEAT TRANSFER OVER OPEN SURFACE MATERIAL N64-13579 05-13

CATALYTIC ACTIVITY AND METAL & METAL OXIDE ATOM RECOMBINING ESTIMATION FROM ARC-TUNNEL HEAT TRANSFER DATA
TP-76 N64-13982 05-13

HEAT TRANSFER PROCESSES AND INSULATION PERFORMANCE IN AEROSPACE APPLICATIONS
ASD-TDR-63-699 N64-14115 05-13

MECHANISMS OF HIGH POWER MICROWAVE ENERGY ABSORPTION AND THERMAL ENERGY TRANSFER IN GASES - PLASMA PHYSICS N64-14219 06-24

HEAT TRANSFER OF THERMAL RADIATORS
NASA-TM-X-51129 N64-14263 06-13

CYLINDRICAL CALORIMETER FOR MEASURING HEAT TRANSFER OF SILICON DIOXIDE WITH ALUMINUM POWDER THROUGH CRYOGENIC INSULATION
NASA-CR-55327 N64-14283 06-13

HEAT EXCHANGE IN RAREFIED GAS AT SUPERSONIC SPEEDS
RM-3016-PR N64-14296 06-13

PRANDTL NUMBER DISTRIBUTION IN TURBULENT BOUNDARY LAYERS WITH HEAT TRANSFER AT SUPERSONIC SPEEDS
DRL-508 N64-14303 06-11

EFFECTS OF IONIZATION ON FLOW AND HEAT TRANSFER OF DENSE GASES
ASD-TDR-63-842 N64-14315 06-24

THIN AIRFOIL WITH MINIMUM AVERAGE COEFFICIENT OF HEAT TRANSFER FOR GIVEN LIFT COEFFICIENT
RM-3410-PR N64-14326 06-02

HEAT EXCHANGE OF HEATED BODIES IN GAS FLOW DURING NONEQUILIBRIUM EXOTHERMAL CHEMICAL REACTIONS
FTD-MT-63-95/1&2&3&4 N64-14379 06-13

HEAT & MASS TRANSFER IN TURBINE CONTACTOR
DP-847 N64-14396 06-17

HEAT TRANSFER IN IONIZED GAS WITH DEBYE LENGTH EXCEEDING MEAN FREE PATH N64-14455 06-23

SHOCK-TUBE HEAT TRANSFER EXPERIMENTS TO MEASURE THERMOCONDUCTIVITY OF ARGON FROM 700-8600 DEG K.
NASA-TN-D-2117 N64-14985 06-13

LIQUID METAL BOILING HEAT TRANSFER
RTD-TDR-63-4130 N64-15097 07-13

DATA REDUCTION AND INTERPRETATION METHODS FOR HEAT TRANSFER DATA FROM REENTRY AND OTHER FLIGHT TESTS
NASA-CR-55580 N64-15535 07-30

AERODYNAMICS, HEAT TRANSFER, AND FLIGHT CHARACTERISTICS OF VARIOUS AIRCRAFT AT VARIOUS SPEEDS
AD-429753 N64-15626 07-11

HEAT TRANSFER AND PRESSURE DISTRIBUTION ON HEMISPHERE-CONE MODELS - OPTIMUM LEADING EDGES AT HIGH SPEEDS N64-15627 07-03

THEORETICAL AND EXPERIMENTAL HEAT TRANSFER TO YAWED SPHERE-CONE MODEL AT SUPERSONIC SPEEDS
N64-15639 07-13

HEAT TRANSFER MEASUREMENTS AT HIGH STAGNATION ENTHALPY AND HIGH REYNOLDS NUMBER
N64-15640 07-13

URANIUM-235 PRODUCTION BY THERMAL MOTION OF DEUTERON IN GASEOUS FISSION REACTOR
RM-3851-AEC N64-15673 07-23

BIBLIOGRAPHY ON TWO-PHASE GAS-LIQUID SYSTEMS - HEAT TRANSFER AND HYDRAULICS
ANL-6734 N64-15799 07-13

INSENSITIVITY OF HEAT TRANSFER TO INCLUSION OF FIRST ORDER SLIP BOUNDARY CONDITIONS FOR SIMILAR LAMINAR HYPERSONIC BOUNDARY LAYERS
P-2780 N64-15848 07-13

LOW & HIGH PRANDTL NUMBER APPROACHES FOR HEAT TRANSFER IN LAMINAR FLOW OF INCOMPRESSIBLE FLUIDS WITH CONSTANT MATERIAL PROPERTIES
NASA-TM-X-54568 N64-15887 07-11

HEAT TRANSFER TO NUCLEAR ROCKET NOZZLES USING SHOCK TUBE TECHNIQUES
NASA-CR-55713 N64-15894 07-13

HEAT TRANSFER AT STAGNATION POINT OF CYLINDER IN IONIZED MONATOMIC GASES & EFFECT OF FREE ELECTRONS ON THERMOCONDUCTIVITY
AFOSR-5442 N64-15950 07-24

HEAT TRANSFER TO DELTA-WING HALF-CONE COMBINATION AT HYPERSONIC SPEEDS
NASA-TN-D-2199 N64-15973 07-03

HEAT TRANSFER AND SHADOWGRAPH TESTS OF ELLIPTICAL LIFTING BODIES WITH SHARP & BLUNT NOSE SHAPES AT HYPERSONIC SPEEDS
AEDC-TDR-64-19 N64-16075 07-02

HEAT TRANSFER TO ZINC-AIR AND FERROUS SULFIDE-AIR SYSTEMS
NASA-CR-55518 N64-16106 07-13

EFFECT OF TEMPERATURE RATIO ON HEAT TRANSFER
TIL/T-5476 N64-16251 08-13

HEAT TRANSFER AND FRICTION ON PERMEABLE WALL IN TURBULENT BOUNDARY LAYERS OF GAS FLOW
FTD-TT-62-1315/1&2&4 N64-16395 08-11

HEAT TRANSFER IN TURBULENT FLUID FLOW AT LARGE PRANDTL NUMBERS AND VARIABLE VISCOSITY
FTD-TT-62-1890/1&2&4 N64-16407 08-13

MASS AND HEAT TRANSFER RATES FOR LARGE TEMPERATURE AND CONCENTRATION GRADIENTS IN BOUNDARY LAYERS
AD-430278 N64-16436 08-11

APPROXIMATION METHOD FOR HEAT AND MASS TRANSFER IN BOUNDARY LAYERS
AD-430289 N64-16467 08-23

SIMPLIFIED ANALYSIS OF SKIN FRICTION AND HEAT TRANSFER IN BINARY BOUNDARY LAYER FLOW ON FLAT PLATES
RM-2872-PR N64-16472 08-11

LINEAR ALGEBRAIC SOLUTION OF HEAT TRANSFER EQUATIONS
FTD-TT-63-196/1&2&4 N64-16480 - 08-13

BIPHENYL LIQUID HEAT TRANSFER AND VAPOR DEPOSITION
IDO-11006 N64-16552 08-13

PRESSURE & HEAT TRANSFER MEASUREMENTS FOR HYPERSONIC FLOW OVER FLAT PLATES
ASD-TDR-63-679, PT. 3 N64-16775 08-02

SNAP 8 REACTOR CORE TRANSIENT HEAT TRANSFER MODEL
NAA-SR-7938 N64-16861 08-04

BIBLIOGRAPHY OF AERODYNAMICS, INSTALLATIONS, HEAT TRANSFER, THERMODYNAMICS, AND ELECTRONICS RESEARCH FOR WEAPONS SYSTEM 107A-1
GDA-ACW64-002 N64-16985 09-30

HEAT TRANSFER - ENTROPY OF ALKALI METALS AND HEAT FLOW DEPENDENCE ON SURFACE FINISH
FTD-TT-63-452/1&2&4 N64-17189 09-13

LOCAL LEADING EDGE HEAT TRANSFER ON FLAT PLATE IN RAREFIED HYPERSONIC FLOW
AS-63-8 N64-17281 09-09

ONE-DIMENSIONAL HEAT TRANSFER ANALYSIS OF THERMAL-ENERGY STORAGE FOR SOLAR DIRECT-ENERGY CONVERSION SYSTEMS
NASA-TN-D-2119 N64-17294 09-13

RECOVERY FACTOR AND HEAT TRANSFER DISTRIBUTIONS ON SET OF CONE MODELS - LAMINAR HYPERSONIC CAVITY FLOWS
ARL-63-73, PT. 2 N64-17329 09-02

PRESSURE & HEAT TRANSFER DATA FOR HYPERSONIC FLOW OVER BLUNT PYRAMID CONFIGURATION COMPOSED OF SWEPTBACK DELTA WING & TWO DIHEDRAL SURFACES
FDL-TDR-64-2, PT. 1 N64-17526 09-02

HEAT TRANSFER IN SPACECRAFT RADIATORS, AND SURFACE RADIATION PROPERTIES
NASA-CR-53289 N64-17600 09-13

FUEL ELEMENT - HEAT TRANSFER IN GAS GAP BETWEEN URANIUM MONOCARBIDE AND ALUMINUM SURFACES
EUR-521.E N64-17775 09-23

HEAT AND MASS TRANSFER EQUATIONS FOR GRAPHITE ABLATION AT ELEVATED TEMPERATURES
R63SD89 N64-17782 09-13

HEAT TRANSFER AND RECOVERY TEMPERATURES OF TURBULENT BOUNDARY LAYER ON SHARP CONE WITH FOREIGN GAS INJECTION
NASA-TN-D-2230 N64-17827 09-13

HEAT TRANSFER IN ICE DURING MELTING
JPRS-24019 N64-17971 10-13

HIGH TEMPERATURE, THIN FILM RESISTANCE THERMOMETER FOR HEAT TRANSFER MEASUREMENTS
NASA-CR-26 N64-17988 10-15

MAGNETIC FIELD EFFECT AND HEAT TRANSFER RATES IN FLOWING PLASMA
AEROCHEM-TP-56 N64-18010 10-24

USE OF RADIOACTIVE ISOTOPES IN HYDROGEN HEAT TRANSFER ROCKET FOR SPACE PROPULSION
ASD-TDR-63-787 N64-18047 10-27

HEAT TRANSFER MEASUREMENTS AND SCALING PROBLEM IN SPACECRAFT MODEL
NASA-CR-53455 N64-18131 10-13

SHORT RESPONSE-TIME PIEZOELECTRIC INSTRUMENT FOR PRESSURE, HEAT TRANSFER, FORCE, AND MOMENTS MEASUREMENTS N64-18212 10-15

BIOCHEMICAL FUEL CELLS, PLASMA PHYSICS - MHD AND THERMIONICS, THERMAL ENERGY STORAGE, THERMAL TRANSPORT, AND SOLAR REFLECTOR RESEARCH
NASA-CR-53557 N64-18304 10-23

LAMINAR HEAT TRANSFER OVER MELTING PLATE - MODIFIED LEVEQUE PROBLEM
CRREL-125 N64-18849 11-13

FLUID FRICTION AND BOILING HEAT TRANSFER WITH WATER IN VORTEX FLOW IN TUBES CONTAINING INTERNAL TWISTED TAPE
RADC-TDR-63-451 N64-18867 11-13

LIQUID ALKALI METALS USED AS HEAT TRANSFER MEDIUM OR MOTIVE FLUID FOR POWER CONVERSION SYSTEMS
ASD-TDR-63-703 N64-18925 11-18

HEAT TRANSFER IN HONEYCOMB SANDWICH PANELS IN STRUCTURE OF AIRCRAFT AND MISSILES
ERR-FW-104 N64-18945 11-13

EFFECTS OF CONTROLLED SURFACE ROUGHNESS ON BOUNDARY LAYER TRANSITION AND HEAT TRANSFER AT HYPERSONIC SPEEDS
NASA-TN-D-2054 N64-18953 11-11

HEAT TRANSFER AND AVERAGE FRICTION COEFFICIENTS FOR HYDROGEN AND HELIUM FLOWING IN TUNGSTEN TUBE
NASA-TN-D-2280 N64-18962 11-13

STEPWISE DISTRIBUTION EFFECT OF HEAT TRANSFER ON SUPERSONIC FLOW OVER FLAT PLATE
TCEA-TN-13 N64-19039 11-13

COMBUSTION AND HEAT TRANSFER PERFORMANCE OF STEAM BOILER - MULTIFUELED THERMAL-ENERGY CONVERSION SYSTEMS
QPR-NO. 6 N64-19056 11-06

TRANSIENT HEAT TRANSFER PROCESS OF MOVING ELECTRIC ARC OVER ELECTRODE
ARL-64-32 N64-19100 11-13

HEAT AND MASS TRANSFER IN INTERACTIONS OF BLUNT BODIES WITH FLUID FLOW IN PRESENCE OF CHEMICAL REACTIONS
FTD-TT-63-310/1&2&4 N64-19214 11-13

LAMINAR SUPERSONIC FLOW HEAT TRANSFER RATES IN SHOCK WAVE GENERATOR
TAE-25 N64-19390 12-13

CROSS SECTIONAL SHAPES OF CYLINDRICAL OR TWO-DIMENSIONAL CAVITIES WITH UNIFORM DIFFUSE RADIATION CHARACTERISTICS OF HEAT TRANSFER N64-19574 12-13

HEAT TRANSFER AND FLOW STUDIES OF LIQUID METAL BOILING
REPT. 05750-9-P N64-19732 12-13

HIGH TEMPERATURE THERMOPHYSICS - LIQUID METALS, GASEOUS HEAT TRANSFER, AND PLASMA GENERATORS
FTD-TT-63-1090/1 N64-19755 12-23

HEAT TRANSFER FROM HOT SODIUM SPRAY IMPINGING ON VERTICAL PLATE N64-20502 13-13

BUBBLE MECHANICS - HEAT TRANSFER OF LIQUIDS BOILING UNDER SUBCOOLED CONDITION IN NEGLIGIBLE GRAVITY ENVIRONMENT
NASA-CR-56013 N64-20644 13-13

PARTICLE-TO-GAS HEAT TRANSFER OF ZIRCONIUM CARBIDE BEDS FLUIDIZED BY HELIUM OR ARGON
LA-3061 N64-20695 13-13

EFFECT OF OXIDE DISSOLUTION AND HEAT TRANSFER ON CORROSION OF ALUMINUM-CLAD FUEL ELEMENTS
HW-77529 N64-20698 13-07

MERCURY HEAT TRANSFER LOOP IN SOLAR POWERED ENGINE - SUNFLOWER POWER SYSTEM
NASA-CR-46 N64-20889 14-06

PRESSURE OSCILLATIONS INDUCED BY FORCED CONVECTION HEAT TRANSFER TO TWO-PHASE AND SUPERCRITICAL HYDROGEN
LAMS-3070 N64-21055 14-13

BINARY LIQUID METAL BOILING HEAT TRANSFER AND TWO-PHASE FLOW AND THERMOPHYSICAL PROPERTIES OF POTASSIUM AND MERCURY AMALGAM
REPT.-3549 N64-21058 14-06

HEAT TRANSFER ON MELTING SURFACE OF BODY IN SUPERSONIC FLOW - EFFECT OF FEEDING MOLTEN METAL THROUGH POROUS WALL
FTD-TT-62-1328/1&2&4 N64-21225 14-13

APPROXIMATION OF EIGENVALUES FOR HEAT TRANSFER IN LAMINAR TUBE SLIP FLOW
NASA-RP-161 N64-21273 14-13

THIN COLD WIRE FOR MEASURING HEAT TRANSFER RATES WITHIN PLANE SHOCK WAVE
SRL-64-1 N64-21339 14-13

EFFECT OF DIFFUSION FACTORS ON FLAME STABILITY - HEAT EXCHANGE IN HORIZONTAL SURFACES OF HEAT INSULATING STRUCTURES
FTD-TT-62-1804/1&2&4 N64-21927 15-23

THIN WING PROFILE WITH MINIMUM MEAN COEFFICIENT OF HEAT TRANSFER FOR GIVEN LIFT
FTD-TT-63-804/1&2 N64-21956 15-03

HEAT TRANSFER OF PEBBLE BED HEATER
NAL-TR-52 N64-22134 15-13

HEAT TRANSFER IN CIRCULAR CHANNELS
FTD-TT-62-1642/1&2&4 N64-22148 15-13

THERMODYNAMICS, HEAT TRANSFER, AND COMBUSTION CHARACTERISTICS OF GASES
FTD-TT-63-922/1&4 N64-22357 15-13

HEAT EXCHANGE ON FLAT PLATE SURFACE
FTD-TT-62-1770/1 N64-22399 15-13

HIGH SPEED CONDENSING VAPOR FLOW PRESSURE DROP DETERMINATION AS FUNCTION OF HEAT TRANSFER
NASA-CR-56238 N64-22478 15-13

STAGNATION POINT HEAT TRANSFER IN HIGH ENTHALPY GAS FLOWS
FDL-TDR-64-41, PT. 1 N64-22571 15-13

GAS FLOW WITH FRICTION AND HEAT EXCHANGE IN SUPERSONIC CONICAL COOLED NOZZLE
FTD-TT-63-1040/1&2 N64-22663 15-11

HEAT TRANSFER MEASUREMENTS ON FLAT PLATE AND ATTACHED FINS AT SUPERSONIC SPEEDS
NASA-TN-D-2340 N64-22674 15-13

PRESSURE AND HEAT TRANSFER MEASUREMENTS FOR HYPERSONIC FLOWS OVER BLUNT BODY WITH AERODYNAMIC CONTROL
FDL-TDR-64-2, PT. IV N64-22682 15-02

STAGNATION POINT HEAT TRANSFER MEASUREMENTS ON FLAT-FACE CYLINDERS IN ARC-HEATED SUBSONIC STREAM
NASA-TN-D-1927 N64-22746 16-11

ANALOG COMPUTER PROGRAM FOR DETERMINATION OF HEAT TRANSFER PARAMETERS OF POWER RAMPS ON SODIUM REACTOR EXPERIMENT
NAA-SR-7929 N64-23062 16-23

EFFECT OF MIXING OF MATERIAL IN FLUIDIZED BED ON HEAT TRANSFER BETWEEN GAS AND PARTICLES
MCL-1289/1&2&4 N64-23965 16-13

FLOW AND HEAT TRANSFER PROPERTIES OF BUBBLE STREAM MOTION IN LIQUID CORE NUCLEAR ROCKET
NASA-CR-56229 N64-24160 16-11

FILM BOILING STUDY OF TEMPERATURE DIFFERENCE BETWEEN HEATER SURFACE AND SATURATED FLUID FOR FREON 113, PENTANE, AND ETHANOL
N64-24382 17-13

HEAT TRANSFER WITH RECEDING BOUNDARIES AND OTHER COMPLICATIONS N64-25108 17-13

AERODYNAMICS, PROPULSION, AND STRUCTURE OF SPACECRAFT - AIRFLOW, THERMAL TRANSFER, AND STRESS
N64-25182 17-01

HEAT ABSORPTION CAPABILITY OF CRYOGENIC SHROUD IN SPACE ENVIRONMENT SIMULATOR
REPT.-00.482 N64-25276 17-13

HEAT TRANSFER DATA FOR DELTA WING SURFACE IN HYPERSONIC FLOW
FDL-TDR-64-2, PT. III N64-25394 17-13

RELATION BETWEEN SKIN FRICTION AND HEAT TRANSFER ON SURFACE OF SPHERE AT SUPERSONIC SPEEDS - PRESSURE DISTRIBUTION AND BOUNDARY LAYER MEASUREMENTS
DTMB-AERO-1054 N64-25518 17-13

PHYSICAL PROPERTIES OF INDUSTRIAL FUEL MIXTURE OF HYDROCARBON COMPOUNDS FOR HEAT TRANSFER
EUR-1619.E N64-25543 17-13

BOILING & CONDENSING HEAT TRANSFER DATA FOR ALKALI METALS
NASA-CR-54037, VOL. 2 N64-25904 18-13

TWO-PHASE HEAT TRANSFER & FLUID FLOW DATA FOR SODIUM & POTASSIUM UNDER BOILING & CONDENSING CONDITIONS
NASA-CR-54038 N64-25905 18-13

HEAT TRANSFER AND PRESSURES ON CIRCULAR CYLINDER SWEPT BY SUPERSONIC FLOW NEAR INTERSECTION WITH WEDGE AND FLAT PLATE
NASA-TN-D-2020 N64-25910 18-13

HEAT TRANSFER AND FLOW DATA OF CRYOGENIC HYDROGEN FOR NUCLEAR ROCKET PROPELLANT FEED AND REACTOR SYSTEMS N64-26019 18-13

FORCED-CONVECTION BOILING POTASSIUM HEAT TRANSFER AND PRESSURE DROP
PWAC-429 N64-26060 18-13

HEAT EMISSION DURING CONDENSATION OF MOVING STEAM IN SINGLE HORIZONTAL PIPE
FTD-TT-64-301/1&2 N64-26116 18-13

EFFECT OF CATALYTIC SURFACES ON STAGNATION POINT HEAT TRANSFER IN PARTIALLY DISSOCIATED FLOWS
N64-26159 18-13

HEAT AND MASS TRANSFER THROUGH TURBULENT BOUNDARY LAYER ON FLAT PLATE AT HIGH MACH NUMBERS WITH AND WITHOUT CHEMICAL REACTION N64-26334 18-11

HEAT TRANSFER TO GAS CONTAINING CLOUD OF PARTICLES
NASA-CR-58088 N64-26361 18-13

HEAT TRANSFER AND WEIGHT ANALYSIS OF MOVING-BELT RADIATOR SYSTEM FOR WASTE HEAT REJECTION IN SPACE
NASA-TN-D-1990 N64-26411 18-13

LAMINAR SLIP FLOW HEAT TRANSFER IN PARALLEL-PLATE CHANNEL OR ROUND TUBE WITH UNIFORM WALL HEATING
NASA-TN-D-2393 N64-26417 18-02

CALCULATIONS OF TEMPERATURE DISTRIBUTION & HEAT TRANSFER IN NUCLEAR ROCKET ENGINE
NSP-63-76 N64-26469 18-13

HEAT TRANSFER ON FLAT PLATE AND PIPE WALL IN STEADY AND COUNTER BOUNDARY LAYER FLOWS
N64-26553 18-13

TWO-PHASE HEAT TRANSFER IN SODIUM AND POTASSIUM BOILING AND CONDENSING
NASA-CR-54037, VOL. 1 N64-26580 18-13

ENGINEERING AND HEAT TRANSFER PROPERTIES OF LIQUID METALS
NAA-SR-8617, VOL. I N64-26692 18-13

HEAT TRANSFER FOR LAMINAR SLIP FLOW OF RAREFIED GAS BETWEEN PARALLEL PLATES WITH UNSYMMETRICAL WALL HEAT FLUX
NASA-TN-D-2421 N64-26780 18-13

RADIATOR AREA POTENTIAL OF OUT-OF-PILE THERMIONIC SPACE POWER SYSTEM USING INERT GAS AS HEAT TRANSFER MEDIUM
NASA-TN-D-2429 N64-26781 18-06

CONTACT HEAT TRANSFER BETWEEN PLANE METAL SURFACES
TIL/T-5407 N64-27040 19-13

LAMINAR AND TURBULENT HYDROGEN HEAT TRANSFER AND FRICTION COEFFICIENTS OVER PARALLEL TUNGSTEN PLATES 5000 DEG R
NASA TN D-2435 N64-27123 19-13

VELOCITY MEASUREMENT AND HEAT TRANSFER IN TURBINES AND COMPRESSORS
FTD-TT-62-1784/1&2 N64-27126 19-13

HEAT TRANSFER AND TEMPERATURE FIELDS OF GAS TURBINE VANES N64-27128 19-13

TRANSIENT HEAT TRANSFER AND STRESS ANALYSIS OF BASE HEAT SHIELD PANEL OF SATURN IC LAUNCH VEHICLE
NASA-CR-58045 N64-27269 19-13

HEAT TRANSFER MEASUREMENTS, CONVECTIVE HEAT TRANSFER, SHOCK FRONT STUDIES, RADIATION IN NITROGEN-CARBON DIOXIDE MIXTURES, AND MAGNETOHYDRODYNAMICS

NASA-CR-58050 N64-27300 19-24

HEAT TRANSFER MEASUREMENT IN PARTIALLY IONIZED GASES
NASA-CR-58049 N64-27315 19-13

BIBLIOGRAPHY ON BOILING HEAT TRANSFER
REPT.-19 N64-27346 19-13

USE OF TEMPERATURE-SENSITIVE COATINGS TO OBTAIN QUANTITATIVE AERODYNAMIC HEAT TRANSFER DATA
NASA-CR-278 N64-27356 19-13

HEAT-TRANSFER RATES AND ABLATION ON BLUNT FLARED CYLINDER IN FREE FLIGHT AT HYPERSONIC AND LOWER SPEEDS
NASA-TN-D-2383 N64-27505 19-13

INFLUENCE OF INTERACTION OF FLOW FIELD WITH BOUNDARY LAYER ON HEAT TRANSFER IN VICINITY OF INTERIOR CORNER ALIGNED WITH FREE STREAM VELOCITY
NASA-TN-D-2417 N64-27506 19-13

HEAT AND MASS TRANSFER FROM EXCHANGE SURFACE TO GAS-FLUIDIZED-BED OF SOLID PARTICLES
ANL-6807 N64-27518 19-13

LIQUID METAL BOILING HEAT TRANSFER STUDY
REPT.-04526-15-F N64-27610 19-13

HYDRODYNAMICS OF TWO-PHASE HEAT TRANSFER WITH GAS INJECTION THROUGH POROUS BOUNDARY SURFACE
ANL-6862 N64-27654 19-13

APPLICATION OF LAMINAR BOUNDARY LAYER SIMILAR SOLUTIONS TO STAGNATION POINT AND LAMINAR BOUNDARY LAYER HEAT TRANSFER
REPT.-6721-7506-KU-000 N64-27687 19-02

HEAT EXCHANGE AND TURBULENT FLOW EFFECTS IN MIXING REGION ON BREAKAWAY CHARACTERISTICS
N64-27980 20-11

HEAT TRANSFER AND PRESSURE MEASUREMENTS DETERMINED ON DELTA WINGS WITH SHARP AND BLUNT NOSES AT SUPERSONIC SPEEDS
NASA-TN-D-2387 N64-28324 20-03

TEMPERATURE FIELD INDUCED BY HEAT ENERGY RELEASED THROUGH TANGENTIAL BREAK IN MAGNETOHYDRODYNAMICS
N64-28488 20-13

MOTIONS OF IDEAL, PERFECT, AND HEAT CONDUCTIVE GASES N64-28489 20-11

EXPERIMENTAL HEAT TRANSFER IN ROCKET THRUST CHAMBER N64-28589 20-13

HEAT TRANSFER IN ROCKET THRUST CHAMBER
N64-28590 20-13

HEAT TRANSFER INFORMATION FOR DESIGNING ROCKET ENGINE CHAMBERS AND NOZZLES N64-28591 20-13

HEAT AND MASS TRANSFER IN EVAPORATION OF LIQUID IN FORCED GAS STREAM
AID-T-64-29 N64-28639 20-13

HEAT TRANSFER DURING FILM CONDENSATION OF LIQUID METAL VAPOR
TR-9167-27 N64-28687 20-13

RADIATIVE HEAT TRANSFER GAUGE FOR HYPERVELOCITY SHOCK TUBE
NASA-CR-58668 N64-29007 20-15

THERMODYNAMICS AND HEAT TRANSFER
FTD-TT-63-17/1&2 N64-29246 21-13

HEAT TRANSFER RATES THROUGH HIGHLY COOLED TURBULENT BOUNDARY LAYER
NOLTR-63-276 N64-29296 21-13

HEAT TRANSFER IN NOZZLE SYSTEMS - NOZZLE DESIGN AND PROPELLANT PROPERTIES, AND RELATION OF NOZZLE HEAT TRANSFER WITH ROCKET MOTOR OPERATING PARAMETERS
ABL/ARPA/QTSR-7 N64-29381 21-13

HEAT TRANSFER MEASUREMENTS ON FLAT PLATE AND ATTACHED PROTUBERANCES IN TURBULENT BOUNDARY LAYER OVER RANGE OF MACH NUMBER, REYNOLDS NUMBER, AND ANGLE OF ATTACK
NASA-TN-D-2428 N64-29451 21-13

HEAT TRANSFER MECHANISMS IN METALLIC CONTACT SURFACES IN VACUUM
NASA-CR-58705 N64-29513 21-13

AERODYNAMIC HEATING AND HEAT TRANSFER FROM SKIN OF ROCKETS AND MISSILES
FTD-TT-63-390/1&2 N64-29586 21-13

RESISTANCE AND HEAT EXCHANGE IN MOTION OF HEATED AIR IN DIFFUSERS AND MIXERS
AID-T-64-25 N64-29596 21-13

MATHEMATICAL HEAT TRANSFER MODEL FOR DETERMINING SENSITIVITY OF HOT WIRE INITIATOR TO INPUT CURRENT
NWL-1919 N64-29877 21-13

HEAT TRANSFER MEASUREMENT FOR BINARY LAMINAR BOUNDARY LAYERS WITH HIGH SECOND GAS INJECTION RATES
NASA-TN-D-2473 N64-30097 21-13

HEAT TRANSFER CHARACTERISTICS OF HOT GAS IGNITION
RM-1063/362 N64-30202 21-10

THERMAL RADIATION EFFECTS ON HEAT EXCHANGE PROCESSES IN TURBULENT BOUNDARY LAYER
N64-30363 22-13

VORTICITY AMPLIFICATION IN STAGNATION POINT FLOW AND EFFECT ON HEAT TRANSFER
ARL-64-91 N64-30816 22-13

THERMAL NONDESTRUCTIVE TESTING BY INFRARED RADIOMETRIC MEASUREMENT OF HEAT TRANSFER RATES
ASD-TDR-62-385, PT. II N64-30922 22-25

NUMERICAL CALCULATIONS OF HEAT TRANSFER RATES ON SPHERES AND CONES IN AIR AT THERMODYNAMIC EQUILIBRIUM
CARDE-TR-479/64 N64-31018 22-13

COMPRESSIBILITY AND HEAT TRANSFER EFFECTS ON LAMINAR SUBLAYER OF TURBULENT BOUNDARY LAYER
NASA-TN-D-1998 N64-31225 22-11

MATHEMATICAL MODEL OF ACTIVE HEAT EXCHANGE ZONE OF SHAFT FURNACE FOR SMELTING OXIDIZED NICKEL ORES
N64-31425 23-17

HEAT TRANSFER MEASUREMENTS ON FLAT PLATE IN HYPERSONIC SHOCK TUNNEL
NOLTR-61-91 N64-31667 23-13

COMPARISON OF THEORETICAL LAMINAR HEAT TRANSFER RATES TO YAWED SPHERE-CONE MODEL AT SUPERSONIC SPEEDS
NOLTR-63-208 N64-31669 23-13

WALL FRICTION & HEAT TRANSFER EFFECTS ON MAGNETOHYDRODYNAMIC DEVICES
ISR-6 N64-32136 23-24

LAMINAR BOUNDARY LAYER FLOW ON NOZZLE WALL TO REDUCE HEAT TRANSFER
C-910100-10 N64-32245 23-17

HEAT TRANSFER STUDIES OF VAPOR CONDENSING AT HIGH VELOCITIES IN SMALL, STRAIGHT TUBES
NASA-CR-124 N64-32433 23-13

TURBULENT FLOW AND HEAT TRANSFER IN INTERACTION OF SUPERSONIC STREAM AND SURFACE PROTUBERANCE
CR-3 N64-32458 23-11

HEAT TRANSFER AND FLUID FLOW DATA FOR POTASSIUM UNDER BOILING AND CONDENSING CONDITIONS IN SPACE TURBOELECTRIC SYSTEMS
NASA-CR-54138 N64-32633 23-13

LIQUID METAL TECHNOLOGY FOR HIGH TEMPERATURE HEAT TRANSFER, WORKING FLUID, AND ELECTRICAL APPLICATIONS N64-32772 24-18

EDDY DIFFUSIVITY AND HEAT TRANSFER IN TURBULENT BOUNDARY LAYER
RR-42 N64-32793 24-11

FLOW AND HEAT TRANSFER BETWEEN HEATED PLATES OF FINITE LENGTH IN FREE MOLECULE FLOW ENVIRONMENTS
NASA-TN-D-2209 N64-32837 24-11

HEAT TRANSFER STUDIES OF VAPOR CONDENSING AT HIGH VELOCITIES IN STRAIGHT TUBES
NASA-CR-58838 N64-33037 24-13

HEAT TRANSFER FOR LAMINAR SLIP FLOW OF RAREFIED GAS IN CHANNEL OR TUBE WITH UNIFORM WALL TEMPERATURE
NASA-TN-D-2213 N64-33081 24-13

INSTABILITY EFFECT ON TWO-PHASE HEAT TRANSFER FOR SUBCOOLED WATER FLOWING IN ZERO GRAVITY ENVIRONMENT
NASA-TN-D-2259 N64-33083 24-13

ABLATION FROM LEXAN SPHERES AND CONES AT HYPERSONIC SPEED - RELATION BETWEEN MASS AND HEAT TRANSFER RATES FROM ANALYSES OF BOUNDARY LAYER
CARDE-TR-511/64 N64-33143 24-13

HEAT TRANSFER TESTS ON SHOCK WAVE GENERATORS & THERMOCOUPLE AND STAINLESS STEEL FINS IN HYPERSONIC WIND TUNNEL
NASA-CR-58836 N64-33219 24-13

LAMINAR, TURBULENT, AND TRANSITIONAL BOUNDARY LAYER HEAT TRANSFER DATA FROM MARK II REENTRY BOD
N64-33262 24-13

CONTACT HEAT EXCHANGE BETWEEN FLAT METAL PLATES AS FUNCTION OF PRESSURE, SURFACE PROPERTIES, AND HEAT CONDUCTIVITY COEFFICIENT
RSIC-272 N64-33421 24-13

PRESSURE AND HEAT TRANSFER MEASUREMENTS FOR HYPERSONIC FLOW OVER EXPANSION CORNERS AND AHEAD OF RAMPS
ASD-TDR-63-679, PT. IV N64-33529 24-02

TURBULENT HEAT TRANSFER, LEAKAGE, AND PRESSURE TESTS ON X-20 AIRCRAFT IN HYPERSONIC SHOCK TUNNEL
D2-80910 N64-33574 24-13

HEAT-TRANSFER COEFFICIENT
HEAT TRANSFER COEFFICIENTS IN NOZZLE WITH HIGH SPEED LAMINAR FLOW
AEDC-TDR-64-61 N64-18606 11-13

METHOD FOR CALCULATING SURFACE TEMPERATURE OF WALLS UNDER AERODYNAMIC HEATING WITH GIVEN HEAT TRANSFER COEFFICIENT AND WALL TEMPERATURE
WRE-TN-HSA-95 N64-19072 11-13

WIND TUNNEL TESTS FOR HEAT TRANSFER COEFFICIENTS IN BOUNDARY LAYER-SHOCK WAVE INTERACTION REGION
USCEC-65-41 N64-19073 11-13

ELECTROSTATIC FIELDS APPLIED TO INCREASE HEAT TRANSFER COEFFICIENT IN CONDENSATION OF VAPOR
RTD-TDR-63-4008 N64-21178 14-13

HEAT TRANSMISSION
EFFECT OF JOULE HEATING ON HEAT TRANSMISSION AT CRITICAL POINT - HYPERSONIC SPEEDS
N64-17184 09-13

CONVECTION LIQUID METAL HEAT TRANSMISSION IN ROCKET NOZZLE
ABL/Z-69 N64-18791 11-13

HEAT TREATMENT
SA HARDENING
SA QUENCHING
ELECTROSLAG WELDING OF SHIP PARTS WITHOUT SUBSEQUENT HEAT TREATMENT
JPRS-21485 N64-10325 01-17

EFFECTS OF TWO NICKEL ALLOY BRAZE COATINGS, HEAT TREATMENTS, AND PROCESSING VARIABLES ON RUPTURE STRENGTH OF SHEET METALS
NASA-TN-D-1880 N64-10334 01-18

HEAT TREATMENT OF ELECTRODEPOSITED CHROMIUM BASE CERMET COATINGS FOR SOLID PROPELLANT ROCKET NOZZLE
AD-407973 N64-11027 02-26

CHANGES IN MODULUS OF ELASTICITY AND TEMPERATURE IN FERROMAGNETIC SOLID SOLUTIONS ON NICKEL BASE ALLOY DURING HEAT TREATMENT N64-11145 02-18

ELECTRON BEAM WELDING & A NONMELTING POSTHEAT TREATING PASS EMBRACING ONLY FUSION & HEAT AFFECTED ZONES
WAL-TR-401.54/2-5 N64-11185 02-17

HEAT TREATMENT OF NIOBIUM
JPRS-22404 N64-12008 03-17

EFFECT OF OXYGEN ON PROPERTIES & HEAT TREATMENT OF TITANIUM ALLOY
JPRS-22595 N64-12151 03-18

TANTALUM CRYSTAL SURFACE STRUCTURE AS FUNCTION OF HEAT TREATMENT AND ION BOMBARDMENT
NASA-CR-52930 N64-12398 03-23

DURABILITY AND INTERNAL FRICTION OF SINTERED ALUMINUM POWDER CRYSTALS DURING CYCLIC HEAT TREATMENT N64-13737 05-18

PYROLYTIC GRAPHITE STRUCTURAL CHANGES AS FUNCTION OF HEAT
SSD-TDR-63-340 N64-14345 06-19

CURRENT, VOLTAGE, AND ELECTROLYTE COMPOSITION FOR ELECTROLYTIC HEAT TREATMENT OF METALS
NAEC-AML-1835 N64-16449 08-17

HOT FORMING AND HEAT TREATMENT OF CERAMICS
FTD-TT-63-146/1 N64-16479 08-17

MACHINABILITY OF STEEL PARTS IN ANNEALED AND HEAT TREATED CONDITIONS
A463 N64-16782 08-18

HEAT TREATMENT OF MAGNETICALLY SOFT ALLOYS IN VACUUM N64-18533 11-17

METALLURGICAL HEAT TREATMENT OPTIMIZATION - RESULTS AND HYDROBURST PROCEDURE IN TESTING MARAGING STEEL CAPABILITIES FOR ROCKET MOTOR CASES
WADR-407-3 N64-18741 11-34

AGING AND HOMOGENIZING HEAT EFFECT ON MECHANICAL PROPERTIES OF 17-4PH STEEL
FTDM-3226 N64-20068 13-18

EFFECT OF COMPOSITION, HEAT, AND ELECTROLYTIC TREATMENT ON DIELECTRIC PROPERTIES OF STEATITE CERAMICS
FTD-TT-62-1800/1&2&4 N64-21926 15-19

ELONGATION MEASUREMENTS OF HEAT TREATED ALUMINUM ALLOY CASTINGS
A728 N64-22574 15-18

DRILLING, REAMING, AND TAPPING TECHNIQUES FOR MACHINING HEAT TREATED STEEL
A732 N64-22578 15-17

THERMAL TREATMENT OF POLYETHYLENE TEREPHTHALATE IN VACUUM
NASA-TT-F-8889 N64-23129 16-07

SOLID ELECTROLYTE TANTALUM CAPACITORS AND HEAT TREATMENT EFFECTS ON THIN OXIDE FILMS
QR-1 N64-24076 16-09

OXYGEN PERMEATION THROUGH VITREOUS SILICA AT HIGH TEMPERATURES
REPT.-63-RL-3515X N64-25837 18-19

CHEMICAL HEAT TREATMENT OF STEEL
JPRS-25521 N64-26258 18-18

CARBON CONTENT EFFECT ON MAGNETIC PERMEABILITY OF IRON-ALUMINUM ALLOYS AND HEAT TREATMENT EFFECTS ON

MAGNETIC PROPERTIES OF ALLOYS
FTD-TT-63-2/1&2&4 N64-26723 18-18

IMPREGNATION AND SUBSEQUENT HEAT TREATMENT OF GRAPHITE TO INCREASE STRENGTH AND DENSITY
WADD-TR-61-72, VOL. XXXI N64-26882 18-19

CORROSION-RESISTANCE, WELDABILITY, HEAT TREATMENT, AND DIFFUSION RATE TESTING OF ALUMINUM-MAGNESIUM-SILICON, ALUMINUM-MAGNESIUM, AND ALUMINUM-ZINC-MAGNESIUM ALLOYS
JPRS-25642 N64-27265 19-18

HEAT TREATMENT EFFECT ON MICROSTRUCTURE AND HARDNESS IN CAST GOLD ALLOY
NEL-1211 N64-27868 19-18

METALLURGICAL HEAT TREATMENT TECHNIQUES & FURNACES
JPRS-25901 N64-28241 20-17

METALLURGICAL HEAT TREATMENT TECHNIQUES
N64-28242 20-17

IMPROVEMENTS IN METALLURGICAL HEAT TREATMENT FURNACES N64-28243 20-17

HEAT TREATMENT OF MAGNESIUM ALLOY CASTINGS
N64-29050 21-18

EFFECT OF ALLOY COMPOSITION, DEFORMATION TEMPERATURE, HEAT TREATMENT, AND INTERSTITIAL CONTAMINATION ON TWINNING TENDENCY OF NIOBIUM-VANADIUM ALLOYS
ORNL-3678 N64-29953 21-18

GROWTH OF METASTABLE LIQUID IMMISCIBILITY IN GLASS AS FUNCTION OF HEAT TREATMENT TIME - SMALL ANGLE X-RAY SCATTERING MEASUREMENT METHOD
TR-4 N64-30115 21-25

HEAT TREATMENT FOR IMPROVING MECHANICAL PROPERTIES OF WELDED JOINTS IN HIGH STRENGTH ALUMINUM ALLOYS
REPT.-2-64-16 N64-32622 23-18

FIELD ION MICROSCOPY OF HEAT TREATED TUNGSTEN ALLOYS AND OF POINT DEFECTS IN IRRADIATED PLATINUM WIRE
NASA-CR-58771 N64-32889 24-18

HEATER
SA FURNACE
CF HEATING EQUIPMENT
MAGNETICALLY ROTATED ELECTRIC ARC AIR HEATER USING STRONG MAGNETIC FIELD AND COPPER ELECTRODES
NASA-TN-D-2032 N64-10347 01-10

PERFORMANCE OF COMPRESSION HEATER FOR HYPER-VELOCITY ACCELERATOR N64-13514 05-23

EQUILIBRIUM SONIC FLOW METHOD OF EVALUATING ELECTRIC ARC AIR HEATER PERFORMANCE
NASA-TN-D-2132 N64-17154 09-24

GRAPHITE HEATER AS BASIS FOR AIR HEATING DEVICE
ARL-63-188 N64-17846 10-19

INCREASING ENTHALPY AND POWER OBTAINABLE FROM ARC AIR HEATERS AT VARIED PRESSURES
RTD-TDR-63-4055 N64-18011 10-13

HEAT TRANSFER OF PEBBLE BED HEATER
NAL-TR-52 N64-22134 15-13

GRAPHITE HEATER FOR HIGH PRESSURE NITROGEN OPERATION
AFOSR-63-5440 N64-23137 16-19

HIGH TEMPERATURE HEATERS FORMED BY VACUUM DEPOSITION ON PLASMA-FLAME SPRAYED DIELECTRIC SUBSTRATES OF ALUMINUM OXIDE
ASD-TDR-62-662 N64-24097 16-13

THERMOELECTRIC GENERATOR-HEATER DESIGN
AD-438410 N64-25277 17-13

HIGH TEMPERATURE HEATER FOR MAGNETOPLASMADYNAMIC LOOP N64-30433 22-10

HEATING
SA AERODYNAMIC HEATING
SA ARC HEATING
SA AUTOCLAVE PROCESS
SA BASE HEATING
SA GAS HEATING
SA INDUCTION HEATING
SA JOULE HEATING
SA KINETIC HEATING
SA PLASMA HEATING
SA RADIANT HEATING
SA RADIATION HEATING
SA RESISTANCE HEATING
SA SHOCK HEATING
SA SUPERHEATING
SA TRANSIENT HEATING
ACOUSTIC HEATING OF POLAR NIGHT MESOSPHERE
NASA-TN-D-1912 N64-10398 01-12

WEATHER CONTROL AND CLOUD PRODUCTION BY HIGH SPEED AIR HEATING, AND EXPLORATION OF EARTH MANTLE AND CRUST INTERIOR BY BOREHOLES
JPRS-18235 N64-10573 01-01

FORMATION & DISPERSION OF INSOLUBLE PRECIPITATES FORMED ON HEATING OILS
JPRS-17760 N64-10718 02-26

INITIAL HEATING RATE & ENERGY INPUT FOR EXPLODING WIRES
BRL-MEMO-1506 N64-12169 03-23

BONDING FOAM PLASTICS BY INTERNAL HEATING IN HIGH FREQUENCY FIELD
RSIC-85 N64-12920 04-19

HYPERVELOCITY LIGHT GAS ACCELERATOR USING ARC DISCHARGE HEATING OF DRIVER GAS
N64-13516 05-23

45 WATT THERMIONIC GENERATOR HEATED BY LEADED GASOLINE AND AIR COMBUSTION N64-17387 09-06

TEMPERATURES ON SURFACES AT SLIDING CONTACT - FRICTION HEATING
RSIC-142 N64-18645 11-17

APPLICATION OF THERMOELECTRIC SYSTEM FOR HEATING, REFRIGERATION, TEMPERATURE CONTROL, AND DISTILLATION N64-19382 12-06

TRANSIENT TEMPERATURE CALCULATION FOR MULTILAYER SLAB WITH TIME DEPENDENT CONVECTION HEATING
TN-R-97 N64-25551 17-13

TESTS OF ELECTRICALLY HEATED FLIGHT CLOTHING
FPRC/MEMO-200 N64-25844 18-16

ELECTRON BOMBARDMENT HEATING FOR BOILING LIQUID METALS
ANL-6869 N64-26483 18-13

DIABATIC HEATING AND COOLING IN SYNOPTIC SCALE WEATHER SYSTEMS
CIR-4042 N64-26694 18-21

FREE CONVECTION OF LOW PRANDTL NUMBER FLUID IN CONTACT WITH UNIFORMLY HEATED VERTICAL PLATE
ANL-6835 N64-26771 18-11

REENTRY HEATING EXPERIMENT TO BE FLOWN BY SCOUT LAUNCH VEHICLE TO TEST ABLATING MATERIALS FOR USE IN APOLLO PROJECT FLIGHT N64-27657 19-02

TRANSIENT BODY TEMPERATURES IN HOLLOW CYLINDERS WITH HEATED INTERIOR AND INSULATED EXTERIOR SURFACE - CYLHEAT HANDBOOK
ABL/X-123 N64-29895 21-13

EFFECTS OF ELECTRON BOMBARDMENT HEATING ON SURFACE OF POLISHED TUNGSTEN SHEET AND FOIL
NRL-6119 N64-29957 21-18

HEATING RELATED TO IMPINGEMENT OF ROCKET EXHAUST ON SPACE SUIT SURFACES AND PERFORMANCE OF INERT HEATED GASES AS PROPELLANTS
ASD-TDR-63-729 N64-32645 23-26

HEATING EQUIPMENT
SA FILAMENT
SA FURNACE
CF HEATER
DIGITAL COMPUTER ANALYSIS OF ELECTRIC HEATING ELEMENT PRODUCTION PROCESSES
JPRS-23041 N64-14525 06-20

ELECTRICAL HEATER ERROR IN ROCKING-BOMB SOLUTION CALORIMETERS
UCRL-7992 N64-31057 22-13

THERMAL RESISTANCES IN CONTACT AREAS OF HEATING ELEMENTS
NASA-TT-F-8839 N64-31448 23-13

HEAVY ELEMENT
NEUTRON AND ALPHA SOLID STATE DETECTOR USED AS COUNTER DURING COLUMN SEPARATION OF PLUTONIUM AND VARIOUS HEAVY ELEMENTS
UCRL-11300 N64-17980 10-23

DATA REVIEW OF HEAVY METAL REFRACTORY COMPOUNDS
N64-18823 11-19

VARIATION OF PERIODICITY OF MAGNETIC STRUCTURE WITH DILUTION AND TEMPERATURE FOR HEAVY RARE-EARTH METALS
AFCRL-64-199 N64-21713 15-25

HEIGHT
S GEOPOTENTIAL HEIGHT
S PULSE HEIGHT
S SCALE HEIGHT

HELICAL ANTENNA
RADIATION DISTRIBUTION CHARACTERISTICS OF SIDE FIRE HELICAL ANTENNA
RADC-TDR-63-360 N64-11757 03-08

EFFICIENCIES OF S-BAND HELICAL ANTENNAS AT HIGH TEMPERATURE
CAL-UB-1807-E-5 N64-33477 24-08

HELICAL WINDING
CF WIRE
METALLURGICAL EVALUATION, HYDROBURST AND STATIC TESTING OF HELICAL WRAPPED ROCKET MOTOR CASES
N64-11962 03-34

HELICOPTER
SA CH-21 HELICOPTER
SA CRANE HELICOPTER
SA DRONE
SA RH- 2 HELICOPTER
SA ROTARY WING AIRCRAFT
SA UH- 1 HELICOPTER
CF AIRCRAFT
CF FLIGHT VEHICLE
MATHEMATICAL MODEL FOR UNDERSTANDING DYNAMIC STABILITY OF HELICOPTERS IN HOVERING
MP-220 N64-12918 04-04

PILOTAGE OF HELICOPTERS WITH REACTION CONTROL
N64-13499 05-14

DESIGN OF HELICOPTER VIBRATION MEASURING APPARATUS
TRECOM-TR-63-44 N64-13847 05-04

FLIGHT TEST TO DETERMINE ALTITUDE EFFECT ON HEIGHT-VELOCITY DIAGRAM OF SINGLE ENGINE HELICOPTER
FAA-ADS-1 N64-16290 08-04

ELECTRIC EQUIPMENT FOR HELICOPTERS TO MEASURE AEROLOGIC CONDITIONS
FTD-TT-63-632/1&2 N64-16381 08-15

LABORATORY INVESTIGATIONS OF HELICOPTER AIRSPEED SYSTEMS FOR OPERATING RANGE OF VEHICLE
CAL-IH-1470-F-1 N64-16487 08-04

AIRSPEED INDICATOR FOR HELICOPTERS
CAL-IH-1470-F-3 N64-16488 08-04

HELICOPTER DESIGN STUDY - STRUCTURAL CHANGE, PROPULSION SYSTEMS, PERFORMANCE, & ECONOMIC CONSIDERATIONS - FLIGHT MODELS N64-17552 09-04

ADJUSTABLE TIP WEIGHTS ON MAIN ROTOR BLADES FOR IMPROVEMENT OF HELICOPTER STABILITY THROUGH INCREASED DAMPING
HTC-AD-63-16 N64-17801 09-04

MATHEMATICAL MODEL TO STUDY DYNAMIC STABILITY OF HELICOPTERS IN HOVERING
AGARD-470 N64-19891 12-04

HIGH PERFORMANCE ELECTROSTATIC DISCHARGER FOR HELICOPTER
DCR-113 N64-21237 14-06

SIMULATION OF HELICOPTER & V/STOL AIRCRAFT - V/STOL ANALYSIS AND DERIVATION OF MOTION EQUATIONS
NAVTRADEVCEN-1205-2 N64-21244 14-10

FLIGHT TEST OF UH-1E HELICOPTER
REPT.-204-099-171 N64-21993 15-04

HELICOPTER GEAR LUBRICATION
S-131914 N64-24014 16-04

MOTION EQUATIONS FOR COMPUTER SIMULATION OF HELICOPTER IN ALL FLIGHT CONDITIONS
NAVTRADEVCEN-1205-1 N64-25214 17-10

AERODYNAMIC CONTROL OF FLYING PLATFORM TYPE HELICOPTER
FTD-MT-63-287 N64-25470 17-03

V/STOL AIRCRAFT - HELICOPTERS AND CONFIGURATIONS OF PROPELLERS, DUCTED FANS, AND JETS
N64-27070 19-04

FEASIBILITY OF HARMONIC DRIVE SPEED REDUCTION GEARS FOR USE IN GAS-TURBINE POWERED HELICOPTER
TRECOM-TR-64-12 N64-27856 19-17

SUPERCRITICAL OPERATION OF HIGH SPEED POWER TRANSMISSION SHAFTS, DESIGN FOR HELICOPTER USE
ASD-TDR-62-728 N64-28226 20-17

V/STOL AIRCRAFT - HELICOPTER, PROPELLER, DUCTED FAN, AND TURBOJET AIRCRAFT HANDLING QUALITIES
NASA-RP-286 N64-28229 20-04

DYNAMIC MODEL ROTOR BLADES FOR HIGH SPEED HELICOPTER RESEARCH N64-29265 21-33

HELICOPTER FLIGHT INVESTIGATION OF EFFECTS OF GROSS CHANGES IN STATIC DIRECTIONAL STABILITY ON V/STOL HANDLING
NASA-TN-D-2477 N64-31081 22-04

SONIC BOOM EFFECTS ON LIGHT AIRCRAFT, HELICOPTERS, AND GROUND STRUCTURES
AD-602175 N64-31101 22-04

AERONAUTICS - 25TH AIR EXPOSITION, HELICOPTER PROGRAM, RADIO ALTIMETERS AND MONITORS, AND XH-51 HELICOPTER N64-31520 23-04

CONFORMAL GEAR FOR HELICOPTER POWER TRANSMISSION
TRECOM-TR-64-28 N64-31954 23-17

MECHANIZING MOTION EQUATIONS OF HELICOPTERS & V/STOL AIRCRAFT BY DIGITAL COMPUTERS
NAVTRADEVCEN-1205-3 N64-33525 24-10

HELICOPTER ROTOR
SPANWISE LOADING OF HELICOPTER ROTOR BLADES IN FORWARD FLIGHT
ARC-R&M-3318 N64-13383 04-03

AERODYNAMIC CHARACTERISTICS OF HELICOPTER ROTORS AND CONTRIBUTIONS TO STABILITY PARAMETERS OF HELICOPTERS
REPT.-659 N64-17741 09-03

HELICOPTER ROTOR-BLADE DIFFERENTIAL PRESSURES, STRESSES, AND MOTIONS AS MEASURED IN FLIGHT
NASA-TM-X-952 N64-17832 09-03

HELICOPTER-TYPE ROTORS FOR DECELERATION, TRAJECTORY CONTROL, GLIDING DESCENT, AND RECOVERY OF AEROSPACE PAYLOADS
ASD-TDR-63-514 N64-20360 13-04

HELICOPTER MAIN ROTOR BLADE TRACKING DEVICE
NAVTRADEVCEN-9U96-2 N64-21572 15-15

FEASIBILITY OF USING HELICOPTER ROTOR BLADE AS RADAR ANTENNA
TR-299-099-251 N64-25091 17-09

ELECTROSTATIC CHARGING CURRENTS IN HELICOPTER ROTOR BLADES
TRECOM-TR-64-14 N64-31952 23-04

STRUCTURAL DYNAMICS OF ROTOR AND BEARINGS IN HELICOPTER WITH BLADE MOUNTED TURBOJET ENGINES
FTD-MT-63-264 N64-32397 23-27

HELIOCENTRIC ORBIT
HELIOCENTRIC EARTH MARS RENDEZVOUS ORBITS AND PLANET-CENTERED ESCAPE TRAJECTORIES
NASA-CR-56975 N64-27451 19-29

HELIOCENTRICITY
CURRENT VALUES AND INTERRELATIONSHIPS OF ASTRODYNAMIC CONSTANTS - HELIOCENTRIC, GEOCENTRIC, SELENOCENTRIC, AND PLANETOCENTRIC VALUES
AFCRL-63-705 N64-15813 07-29

HELIOGRAPHY
SA SUN
CF PHOTOGRAPHY
SPECTROHELIOGRAM STUDY OF OPTICAL PHENOMENA ASSOCIATED WITH SOLAR FLARES
DGO-11.162 N64-11500 03-28

ENGINEERING PSYCHOLOGY
JPRS-23448 N64-16667 08-14

SPECTROHELIOGRAPHIC STUDY OF MOVING MATERIAL ACCOMPANYING SOLAR FLARE OF JULY, 1959
N64-30253 22-28

X-RAY LINE SPECTRUM, SPECTROHELIOGRAPH RESULTS, & FAN BEAM SCANS OF SOLAR X-RAY EMISSION
N64-30270 22-28

HELIOGRAPHIC LONGITUDE OF SOLAR FLARES PRODUCING ENERGETIC PARTICLES
NASA-TM-X-55086 N64-33628 24-28

HELIOMETER
HELIOMETRIC OBSERVATIONS OF COORDINATES OF LUNAR CENTER OF MASS
MH-TRANS-430 N64-14546 06-05

HELIPORT
CF AIRPORT
BIBLIOGRAPHY - PLANNING, MANAGEMENT, OPERATIONS, AND SAFETY OF AIRPORTS AND HELIPORTS
N64-17490 09-10

BIBLIOGRAPHY ON DESIGN, CONSTRUCTION AND MAINTENANCE OF AIRPORTS AND HELIPORTS
N64-20810 14-10

HELIUM
SA LIQUID HELIUM
CF RARE GAS
HELIUM ATOM WAVE FUNCTION EXPANSIONS IN LEGENDRE FUNCTIONS
NASA-CR-52696 N64-11231 02-23

ENERGY VALUES AND ISOTOPE SHIFTS OF ONE P AND THREE P LEVELS OF HELIUM AND LITHIUM
NASA-CR-52694 N64-11380 02-23

HELIUM CONTENT OF METALLIC METEORITES
N64-11394 02-05

MASS & ENERGY TRANSFER, FLOW CHARACTERISTICS, KINETICS OF VARIOUS SYSTEMS, AND STATE EQUATIONS FOR HELIUM AND OXYGEN
JPRS-22321 N64-11965 03-01

STATE EQUATION FOR HELIUM N64-11971 03-23

K-BAND PHOTOIONIZATION CROSS-SECTION OF GASEOUS HELIUM MEASURED BY SOFT X-RAYS
ARDD-2810-13 N64-12601 04-19

VISCOSITY OF NEON-HELIUM & NEON-ARGON MIXTURES AND THREE PURE COMPONENTS - SQUID PROJECT
BRN-8-P N64-12931 04-19

GASEOUS LASER USING NEON-HELIUM OR OXYGEN TO PRODUCE OPTICAL RADIATION
NASA-CR-55276 N64-13929 05-25

ELECTRODYNAMICS OF HELIUM SUPERFLUID FLOW AND ELECTRIC FIELD INVESTIGATION OF LIQUID AND SOLID HELIUM STRUCTURES
NASA-CR-55303 N64-14277 06-23

EFFECT OF HELIUM SOUND FIELD ON BURNING RATE OF AMMONIUM PERCHLORATE-POLYURETHANE TYPE SOLID PROPELLANT
AIAA PAPER-64-108 N64-14853 06-26

FLUX AND ENERGY SPECTRUM MEASUREMENTS OF HYDROGEN, HELIUM, AND HEAVY NUCLEI FROM SOLAR FLARES
NASA-RP-19 N64-14857 06-28

PLANETARY GEOLOGY, ESCAPE OF HELIUM FROM EARTH ATMOSPHERE, AND HYDROMAGNETIC WAVES IN SPACE
NASA-CR-55384 N64-15182 07-01

ESCAPE OF HELIUM FROM EARTH ATMOSPHERE
N64-15184 07-12

MONTE CARLO METHOD OF INVESTIGATING EARLY STAGES OF IONIZATION OF NEUTRAL HELIUM PRODUCED BY LARGE AMPLITUDE MAGNETIC PUMPING IN STELLARATOR
MATT-211 N64-16562 08-24

QUANTUM ELECTRODYNAMIC THEORY OF ELECTRON INTERACTIONS USING HELIUM ISOELECTRONIC SEQUENCE
AFCRL-64-224 N64-16564 08-23

OPERATION MODES OF CONFINED KILOWATT DC ARGON PLASMA JET IN HELIUM OR ARGON
AS-64-2 N64-16615 08-24

REACTOR HIGH TEMPERATURE HELIUM SEALS
HW-76008 N64-17297 09-17

SPECTRUM OF HELIUM CATHODE DISCHARGE TUBE IN VISIBLE AND VACUUM ULTRAVIOLET REGIONS
MATT-236 N64-17495 09-24

ABSORPTION CROSS SECTIONS OF HELIUM, NEON, ARGON, KRYPTON, AND XENON FROM PHOTOIONIZATION THRESHOLDS TO 280 ANGSTROM UNITS
GCA-TR-64-3-N N64-17671 09-23

HYDROGEN-HELIUM LIQUID-VAPOR EQUILIBRIUM
NASA-CR-53343 N64-17791 09-19

LAMINAR BOUNDARY LAYER DISPLACEMENT EFFECTS ON HEMISPHERES IN HELIUM FLOW
NASA-TN-D-2193 N64-17813 09-02

PROPERTIES OF HELIUM DIFFUSION FILL DEVICE AND APPLICATION IN ULTRAHIGH VACUUM SYSTEMS
USAELRDL-TR-2420 N64-18367 10-23

INTENSITY MEASUREMENT OF PROTON BEAM OF SYNCHROCYCLOTRON WITH THIN HELIUM PLATE IONIZATION CHAMBERS
NASA-CR-53566 N64-18427 10-23

MOTION EQUATIONS FOR HYDROGEN AND HELIUM IONIC DIFFUSION IN GEOMAGNETIC FIELD
AFCRL-64-75 N64-18635 11-12

HEAT TRANSFER AND AVERAGE FRICTION COEFFICIENTS FOR HYDROGEN AND HELIUM FLOWING IN TUNGSTEN TUBE
NASA-TN-D-2280 N64-18962 11-13

HELIUM-NEON GASEOUS BODY IRRADIATOR
N64-19448 12-25

STATIC STABILITY OF BLUNT BODY OF REVOLUTION AT HYPERSONIC SPEED IN HELIUM
NASA-TN-D-2282 N64-19478 12-02

DIFFUSION OF MESONS IN HELIUM - QUANTUM MECHANICS
FTD-TT-63-1093/1&2 N64-19756 12-23

DIRECT MEASUREMENT OF HYDROGEN AND HELIUM ION DISTRIBUTION IN UPPER ATMOSPHERE

NASA-RP-168 N64-19994 12-12

NANOSECOND PULSE BREAKDOWN OF AIR, HELIUM, AND NITROGEN - STUDY OF GASEOUS BREAKDOWN PHENOMENA FOR DESIGNING HIGH RESOLUTION RADAR SYSTEM
RADC-TDR-64-38 N64-21072 14-24

TECHNIQUE FOR MEASURING ISOTOPICALLY RESOLVED ENERGY SPECTRA OF HIGH ENERGY PARTICLES - HYDROGEN AND HELIUM ISOTOPES
ATN-64/9234/-2 N64-21368 14-23

DISTRIBUTION OF HELIUM, NITROGEN AND ARGON IN EARTH ATMOSPHERE AT HIGH ALTITUDES
N64-21636 15-12

OBSERVING TWILIGHT BURST OF HELIUM EMISSION WITH FABRY-PEROT STANDARD N64-21887 15-12

HELIUM EMISSION IN UPPER ATMOSPHERE
N64-21900 15-12

MERCURY, POTASSIUM, ARGON, NEON, AND HELIUM GAS DISCHARGE STUDY AT VERY LOW PRESSURES
FTD-TT-62-1238/1&2 N64-21918 15-11

GRAPHIC STUDY OF PHYSICAL, THERMODYNAMIC AND QUANTUM MECHANICAL PROPERTIES OF HELIUM-3 AND HELIUM-4
MLM-1161 N64-22103 15-07

CHEMICAL REACTION OF HELIUM WITH DEUTERON
FTD-TT-63-991/1&2 N64-22140 15-24

HYDROGEN, HELIUM, AMMONIA, AND ARGON GAS FLOW THROUGH ELECTRIC ARC HOT GAS CONTAINMENT LIMITS
ARL-64-49 N64-22306 15-24

EXCITATION RESONANCE IN HELIUM ION-ATOM COLLISIONS
N64-22367 15-24

CONDENSING HELIUM
FTD-TT-62-1669/1&2 N64-22628 15-13

DISTRIBUTION OF HELIUM, NITROGEN, AND ARGON IN EARTH ATMOSPHERE TO 430 KILOMETERS
NASA-TT-F-8566 N64-23038 16-12

ISOTOPIC COMPOSITION AND ENERGY SPECTRUM OF LOW ENERGY HELIUM NUCLEI IN PRIMARY COSMIC RADIATION
URPA-31 N64-23173 16-28

COSMIC RAY HYDROGEN AND HELIUM NUCLEI DURING SOLAR QUIET TIME
NASA-RP-203 N64-24083 16-29

HELIUM AND ATOMIC HYDROGEN IN PERIOD OF SOLAR ACTIVITY MINIMUM
NASA-TT-F-8625 N64-24158 16-29

SEEDING SHOCK WAVES IN ARGON AND HELIUM WITH POTASSIUM AND CESIUM
MT-51 N64-24872 17-24

TRANSPORT PROPERTIES OF MIXTURES OF HELIUM AND PARTLY IONIZED ARGON
AEL-673 N64-25034 17-24

HELIUM-NEON VISIBLE LASER
AD-437650 N64-25036 17-25

EFFECTS OF ADDING HELIUM AND ARGON TO CESIUM VAPOR THERMIONIC CONVERTERS
AD-425081 N64-25193 17-13

HELIUM-NEON GAS LASER AS LIGHT SOURCE FOR PHOTOGRAPHIC CONTACT PRINTERS
RADC-TDR-64-120 N64-25232 17-15

PRANDTL NUMBER MEASUREMENTS AND THERMOCONDUCTIVITY AND VISCOSITY PREDICTIONS FOR AIR, HELIUM, AND AIR-HELIUM MIXTURES
NASA-CR-55273 N64-25659 17-13

PHYSIOLOGICAL EFFECTS OF ARGON, HELIUM, AND RARE GASES ON CELLULAR SYSTEMS
AD-600641 N64-25925 18-16

USE OF HELIUM MASS SPECTROMETER LEAK DETECTOR
NASA-TM-X-978 N64-26091 18-15

THERMODYNAMIC PROPERTIES OF HIGH TEMPERATURE HELIUM
REPT.-0-71000/3R-11 N64-26802 18-13

LOW ENERGY ELECTRON SCATTERING FROM METASTABLE HELIUM
N64-27555 19-23

VELOCITY DEPENDENCE OF TOTAL CROSS SECTION FOR METASTABLE HELIUM SCATTERING BY HELIUM, ARGON, AND KRYPTON
N64-27557 19-23

RESONANCES IN ELASTIC SCATTERING CROSS SECTION OF ELECTRONS ON HELIUM, NEON, KRYPTON, AND XENON
TR-24 N64-27792 19-23

LOW FIELD HELIUM MAGNETOMETER FOR MARINER C SPACECRAFT
NASA-CR-56557 N64-27898 20-15

EFFECT OF PROLONGED BREATHING OF HELIUM-OXYGEN ON SPEECH INTELLIGIBILITY
AD-602545 N64-28298 20-14

SPUTTERING OF METEORITES BY POSITIVE HELIUM, NEON, AND ARGON IONS N64-28302 20-23

LIQUID VAPOR EQUILIBRIUM IN HYDROGEN-HELIUM SYSTEMS
NASA-CR-58687 N64-29214 21-11

COMPARISON OF THEORY AND EXPERIMENTAL DATA FOR ANALYSIS OF TURBULENT BOUNDARY LAYER WITH AIR OR HELIUM INJECTION
REPT.-61SD49 N64-29524 21-11

DEPOSITION OF FISSION PRODUCTS FROM HELIUM GAS STREAM AT HIGH TEMPERATURES AND FLOWING AT HIGH VELOCITIES
BMI-1688 N64-30024 21-11

COOLING OF NOSE CONE BY EJECTION OF HYDROGEN AND HELIUM FROM ITS APEX AT MACH 7
NASA-TN-D-2478 N64-30098 21-13

SPECTRUM OF DIATOMIC HELIUM MOLECULE
N64-30307 22-23

PURIFICATION OF HELIUM FOR MAGNETOPLASMADYNAMIC LOOP N64-30434 22-10

THEORY OF SUPERFLUID HELIUM BASED ON ELEMENTARY EXCITATIONS OF MANY-BODY SYSTEM OF BOSONS
AROD-2813-4 N64-30558 22-23

ENERGY LOSS IN FAST IONS OF RARE GASES AFTER COLLISION WITH HELIUM AND NEON ATOMS
NASA-TT-F-8941 N64-30835 22-11

POST-LUMINESCENCE OF HYDROGEN IMPURITY IN HELIUM OR NEON PLASMA EXCITED IN PULSES
NASA-TT-F-8959 N64-30852 22-24

SEPARATION OF PURE HELIUM FROM NATURAL GASES BY DEEP COOLING
RSIC-226 N64-30966 22-07

SOUND ATTENUATION IN ATMOSPHERES OF AIR, NITROGEN, OXYGEN, HELIUM AND 50-50 HELIUM-OXYGEN MIXTURES AT LOW PRESSURES
SAM-TDR-64-43 N64-31051 22-16

SPECTROPHOTOMETRIC DETECTION OF METASTABLE HELIUM ATOMS EXCITED BY ULTRAVIOLET RADIATION
RPL-TDR-64-96 N64-31076 22-23

POWER BALANCE MEASUREMENTS FOR HELIUM DISCHARGES IN C STELLARATOR
MATT-268 N64-31472 23-24

NUCLEAR EMULSION OF LOW-ENERGY GALACTIC COSMIC-RAY HYDROGEN AND HELIUM NUCLEI
NASA-RP-336 N64-31720 23-28

SOURCE OF POLARIZED ELECTRONS FOR HIGH ENERGY ACCELERATOR AND PRECISION MEASUREMENT OF THE TRIATOMIC HELIUM NUCLEAR MAGNETIC MOMENT
N64-32248 23-23

IONIZATION CROSS SECTIONS FOR NEUTRAL HELIUM ATOMS ON IMPACT WITH HELIUM, NEON AND NITROGEN
N64-32384 23-11

ENERGY REQUIREMENT FOR ION PRODUCTION BY ELECTRON BOMBARDMENT IN HELIUM, ARGON, AND CESIUM GASES
NASA-TM-X-52064 N64-32438 23-24

EXCITATION OF HELIUM EMISSION AT TWILIGHT RELATED TO ALTITUDE AND SOLAR DEPRESSION ANGLE
N64-32712 24-12

STATIC MAGNETIC FIELD EFFECTS ON CHARACTERISTICS OF HELIUM-NEON LASER
PIBMRI-1222-64 N64-33004 24-23

ACTIVATED COCONUT CHARCOAL APPARATUS FOR DETERMINING HELIUM CONTENT OF GAS MIXTURES
BH-RI-6545 N64-33018 24-07

MASS SPECTROSCOPY AND GAS ANALYZER FOR OXYGEN AND OTHER IMPURITIES IN ARGON AND HELIUM
NASA-CR-59004 N64-33035 24-07

SPECULAR REFLECTION OF PHONONS IN SUPERFLUID HELIUM
NASA-CR-59293 N64-33333 24-23

FLOW OF SUPERFLUID HELIUM - DAMPING OF SOLIDS OSCILLATING IN VISCOUS FLUID
QPR-6 N64-33660 24-11

HELIUM COMPOUND
COMBUSTION TEST TO DEVELOP SPARK IGNITION SYSTEM OF STOICHIOMETRIC OXYGEN-HYDROGEN AND HELIUM MIXTURE FOR HYPERSONIC SHOCK TUNNEL
REPT.-64-12 N64-33071 24-26

HELIUM PLASMA
THREE-BODY ELECTRON-ION RECOMBINATION IN DENSE PLASMA OF HELIUM WITH TRACE OF ARGON
N64-14221 06-24

ABSORPTION COEFFICIENT, ELECTRON DENSITY, AND COLLISION RATE OF HELIUM PLASMA WITH ARGON TRACE AT HIGH MICROWAVE FIELD INTENSITIES
N64-14222 06-24

MICROWAVE HORN ANTENNA CHARACTERISTICS IN PRESENCE OF PLASMA SHEATH GENERATED IN HELIUM
AFCRL-63-541 N64-14368 06-09

ELECTRON TEMPERATURE AND DENSITY DETERMINATION IN HELIUM PLASMA USING THOMSON-SCATTERED RADIATION FROM RUBY LASER
N64-19066 11-24

ENERGY REQUIREMENTS FOR VOLUME ION PRODUCTION IN TENUOUS HELIUM PLASMA
NASA-TN-D-2324 N64-20193 13-24

ELECTRON INTERACTIONS IN GASEOUS HELIUM PLASMA UNDER CRYOGENIC CONDITIONS
AFCRL-64-67 N64-20860 14-24

SPECTROSCOPIC DETERMINATION OF ELECTRON TEMPERATURE AND PERCENTAGE IONIZATION IN HELIUM PLASMA
NASA-RP-195 N64-22070 15-24

DIAMAGNETIC PERPENDICULAR TEMPERATURE MEASUREMENT OF HELIUM DISCHARGE IN STELLARATOR
MATT-278 N64-28420 20-24

KADOMTSEV INTERACTION OF HYDROMAGNETIC WAVE AND ELECTRIC CURRENT IN HIGHLY IONIZED HELIUM PLASMA
ATN-64/9230/-2 N64-30007 21-24

HELIUM 3
HELIUM-3 NEUTRON GROUND STATE REACTION ON CARBON-12 AND 13 INCLUDING ANGULAR DISTRIBUTIONS AND EXCITATION CURVES
URPA-7 N64-10192 01-23

TEMPERATURE & DENSITY DEPENDENCE OF ION MOBILITY IN LIQUID HELIUM 3
LNF-63/83 N64-14454 06-23

GRAPHIC STUDY OF PHYSICAL, THERMODYNAMIC AND QUANTUM MECHANICAL PROPERTIES OF HELIUM-3 AND HELIUM-4
MLM-1161 N64-22103 15-07

HELIUM 3 SPECTROMETER FOR NEUTRON SPECTRA AND ATTENUATION MEASUREMENTS
BRL-MEMO-1545 N64-26621 18-25

NUCLEAR MAGNETIC RESONANCE AND SPIN LATTICE RELAXATION TIMES OF LIQUID AND SOLID HELIUM-3
AD-601582 N64-27689 19-23

NUCLEAR REACTION OF LITHIUM 6 UNDER PROTON IRRADIATION TO YIELD HELIUM 3 & ALPHA PARTICLE
N64-30662 22-23

NUCLEAR MAGNETIC SUSCEPTIBILITY AND SPIN-LATTICE RELAXATION TIME MEASUREMENTS OF LIQUID HELIUM 3
AD-420098 N64-31157 22-23

DETERMINATION OF NEUTRON FIELDS USING HELIUM-3 SOLID STATE SPECTROMETER
BRL-1505 N64-33350 24-23

ANNOTATED BIBLIOGRAPHY ON HELIUM 3
MLM-1190 N64-33718 24-23

HELMET
ACOUSTIC NOISE ELIMINATION DEVICE FOR DONE OF SPACE SUIT HELMET
C30-31 N64-14650 06-23

DESIGN AND FABRICATION OF MASK AND HELMET FOR CHIMPANZEE RESPIRATORY SYSTEM RESEARCH
ARL-TDR-64-3 N64-21311 14-16

REMOTE MONITOR FOR HELMET POSITION
N64-29884 21-22

CRITICAL VISUAL FIELD OF EXPLOSIVE-ACTUATED LENS FILTER /ELF/ HELMET AND VISOR SYSTEM FOR FLASH BLINDNESS PREVENTION
MR-64-1 N64-32299 23-16

HELMHOLTZ EQUATION
CF TIME DEPENDENCY
CF WAVE EQUATION
ITERATIVE SOLUTIONS OF HELMHOLTZ EQUATION
AFCRL-64-684 N64-32112 23-20

HEMATITE
MAGNETIC STUDIES OF IRRADIATED HEMATITE CRYSTALS
AD-412429 N64-27710 19-18

HEMATOLOGY
SA BLOOD
HIGH TEMPERATURE ENVIRONMENT EFFECTS ON HUMAN AND ANIMAL BLOOD COMPOSITION AND PROPERTIES
JPRS-21405 N64-10002 01-16

PERMEABILITY OF HEMATOENCEPHALIC BARRIER TO INORGANIC PHOSPHATE IN ACUTE RADIATION SICKNESS
JPRS-21628 N64-10119 01-16

EFFECT OF PROLONGED & REPEATED IONIZING RADIATION ON HEMATOLOGIC ORGANS AND BLOOD
N64-11609 03-16

HEMATOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL RESPONSE FROM MASSIVE DOSES OF MIXED GAMMA AND NEUTRON IRRADIATION IN GOATS
RTD-TDR-63-3077 N64-13827 05-16

HEMATOLOGIC CHANGES FOLLOWING TOOTH EXTRACTION
SAM-TR-63-82 N64-30498 22-16

SEARCH FOR HEMATOLOGICAL PARAMETER INDICATING EFFECT OF COLD ACCLIMATIZATION ON FORMED ELEMENTS IN MOUSE PERIPHERAL BLOOD
AAL-TDR-63-3 N64-31934 23-16

PH VALUES, BICARBONATE CONTENTS AND CARBONIC ACID PRESSURE OF HUMAN BLOOD IN SHORT TERM OXYGEN DEFICIENCY
DVL-225 N64-32326 23-16

HEMATOLOGICAL, BIOCHEMICAL, AND MORPHOLOGICAL CHANGES IN DOGS DURING RECOVERY PERIOD FROM RADIATION SICKNESS
N64-32780 24-16

HEMATOPOIETIC SYSTEM
INFLUENCE OF SOLAR ACTIVITY ON THE CIRCULATORY & HEMATOPOIETIC SYSTEMS AND BLOOD COMPOSITION OF MAN
JPRS-18960 N64-11121 02-16

INFLUENCE OF SPACE FLIGHT FACTORS ON HEMATOPOIETIC ORGANS IN MICE N64-11677 03-16

EFFECT OF SPACE FLIGHT ON HEMATOPOIETIC ORGANS OF MICE N64-11679 03-16

LUMINESCENT MICROSCOPY OF HEMATOPOIETIC SYSTEMS USING IONIZING RADIATION
JPRS-22915 N64-14148 05-16

FUNCTION OF ADRENAL GLAND AND HEMATOPOIETIC SYSTEM UNDER TEMPORARY AND PROLONGED HYPOXIA DURING MOUNTAIN CLIMBING - MEDICAL STUDY
N64-15202 07-16

RESTORATION OF ALBINO RAT HEMATOPOIETIC SYSTEM AFTER GAMMA RADIATION EXPOSURE N64-25309 17-16

CYCLIC RADIATION DOSE RATE EFFECT ON RAT HEMATOPOIETIC SYSTEM N64-25310 17-16

CHANGES OF HEMATOPOIETIC TISSUE IN DOG WITH ACUTE RADIATION SICKNESS AFTER BONE MARROW TRANSPLANT
JPRS-25251 N64-26055 18-16

CHRONIC EFFECTS OF IONIZING RADIATION ON HEMATOPOIETIC SYSTEM
AD-602135 N64-29673 21-16

RESTORATIVE PROCESSES IN HEMATOPOIETIC ORGANS AFTER RADIATION EXPOSURE
JPRS-26921 N64-31556 23-16

HEMATURIA
S URINE

HEMISPHERE
SA NORTHERN HEMISPHERE
SOVIET CATALOGING OF FAINT STARS IN SOUTHERN HEMISPHERE
JPRS-19252 N64-10653 01-05

IONIZED FLOW FIELD ABOUT HEMISPHERE CYLINDER AND EFFECT ON RADIATION PATTERN OF SLOT ANTENNA
AFCRL-63-339 N64-12195 03-09

MEAN MERIDIONAL CIRCULATION IN SOUTHERN HEMISPHERE
AFCRL-63-763 N64-12616 04-21

TRAPPED PROTONS IN SOUTHERN ATLANTIC MAGNETIC ANOMALY
SSD-TDR-63-342 N64-14643 06-12

HEAT TRANSFER AND PRESSURE DISTRIBUTION ON HEMISPHERE-CONE MODELS - OPTIMUM LEADING EDGES AT HIGH SPEEDS N64-15627 07-03

AEROLOGICAL EXPLANATION OF AIR FLOW IN TROPICS BETWEEN NORTHERN AND SOUTHERN HEMISPHERES
E-T-R-63-12 N64-16486 08-21

LAMINAR BOUNDARY LAYER DISPLACEMENT EFFECTS ON HEMISPHERES IN HELIUM FLOW
NASA-TN-D-2193 N64-17813 09-02

DISTRIBUTION OF FISSION PRODUCT DEBRIS IN SOUTHERN CONJUGATE AREA FROM HIGH ALTITUDE NUCLEAR TEST
NASA-CR-53592 N64-18428 10-12

SEASONAL VARIATION OF IONOSPHERIC DISTURBANCES AT HIGH LATITUDES OF NORTHERN & SOUTHERN HEMISPHERES
NASA-TT-F-8878 N64-23049 16-12

METEOROLOGIC SATELLITE OBSERVATION OF SOUTHERN HEMISPHERE CLOUD PATTERNS - ANTARCTICA RESUPPLY OPERATIONS
ARA-F-9228-2 N64-30566 22-21

APPROXIMATE SOLUTION FOR BURSTING STRENGTH OF THIN-WALLED CYLINDERS WITH HEMISPHERICALLY CAPPED ENDS
IITRI-528-20 N64-31595 23-34

HEMISPHERICAL SHELL
S BODY OF REVOLUTION

HEMODYNAMIC RESPONSE
CF BLOOD
CHANGES OF MORPHOLOGICAL & FUNCTIONAL PROPERTIES OF BLOOD & HEMODYNAMICS DURING USE OF EXTRACORPORAL CIRCULATION SYSTEMS
JPRS-22914 N64-14133 05-16

MECHANISMS OF INTRARENAL HEMODYNAMIC CHANGES FOLLOWING ACUTE ARTERIAL OCCLUSION
CARI-63-22 N64-16574 08-16

HEMODYNAMIC RESPONSES TO VESTIBULAR STIMULATION BY ROTATION
FTD-TT-64-32/1&2 N64-22365 15-16

PHYSIOLOGICAL DATA AND INSTRUMENT DEVELOPMENT FOR AUTOMATIC MEASUREMENT OF HEMODYNAMIC AND METABOLIC PARAMETERS ON PRIMATES DURING WEIGHTLESSNESS
NASA-CR-56348 N64-25768 17-16

HEMOGLOBIN
CF PROTEIN
EFFECTS OF MILD HYPOXIA ON HEMOGLOBIN FRACTION CHANGES IN BLOOD OF PILOTS
REPT.-63-2 N64-10433 01-16

ENZYME ACTIVATION DETERMINATION OF OXYGEN DEFICIENCY EFFECT ON BIOSYNTHESIS OF HEME FORMATION N64-15043 07-16

CYTOPHOTOMETRIC METHOD FOR MEASURING HEMOGLOBIN AND NUCLEIC ACID IN ERYTHROCYTE PRECURSORS
N64-15214 07-16

ANTIBODIES TO HUMAN A1 HEMOGLOBIN AND THEIR REACTION WITH CERTAIN OTHER HEMOGLOBINS
N64-25491 17-16

WATER TOXICITY STUDIES - ERYTHROCYTE AND HEMOGLOBIN RESISTANCE, AND CARBON DIOXIDE CONTENT OF BLOOD PLASMA
NASA-TT-F-9125 N64-33401 24-16

HERMETIC SEAL
ELECTRON BEAM WELDING AND HERMETIC SEALING OF MICROMINIATURIZED ELECTRONIC MODULES
SCL-7686 N64-21119 14-17

HERMETICALLY SEALED TANTALUM FOIL ELECTROLYTIC CAPACITORS FOR OPERATION IN SPACE ENVIRONMENT
AD-430355 N64-21325 14-09

HERMETIC SEALING OF PROPELLANT CONTAINERS BY PRESSURE WELDING
TM-1373 N64-21782 15-17

ULTRASONIC WELDING OF ALUMINUM ALLOY SHEET AND CAPSULES FOR HERMETIC SEALING
RR-61-99 N64-22551 15-17

HERMETICALLY SEALED LIGHTWEIGHT FOAM INSULATION FOR LIQUID HYDROGEN TANKS OF LAUNCH VEHICLES
N64-25048 17-30

PRESSURE WELD CARTRIDGE SEAL FOR PROPELLANT ACTUATED DEVICES IN FLIGHT VEHICLES
R-1666 N64-29399 21-17

PRODUCTION METHODS FOR HERMETIC PACKAGING AND INTERCONNECTING OF MICROCIRCUITS
HSER-2884 N64-29819 21-17

HERMETICAL SEAL
THERMAL ANALYSIS OF HERMETICALLY SEALED NICKEL CADMIUM CELLS FOR SPACE APPLICATION
AIAA PAPER-64-751 N64-28849 20-06

HERMITIAN POLYNOMIAL
S VECTOR SPACE

HERTZSPRUNG-RUSSELL DIAGRAM
S STELLAR EVOLUTION

HETERODYNE
DEVICES AND TECHNIQUES FOR MILLIMETER WAVELENGTH SUPERHETERODYNE RECEIVERS FOR USE AS RADIOMETERS

NASA-CR-2 N64-14937 05-08

MULTIPLE HETERODYNE CIRCUITS OF FREQUENCY-MODULATED RADARS FOR SINGLE TARGET DETECTION
N64-15142 07-08

MULTICHANNEL SUPERHETERODYNE RECEIVER SYSTEM FOR SEARCH AND MONITOR OF AMPLITUDE AND FREQUENCY MODULATION SIGNALS
EDL-G200 N64-17287 09-08

HETERODYNE DEEP SPACE OPTICAL COMMUNICATION SYSTEM
NASA-CR-53636 N64-19990 12-08

HETERODYNE SIGNAL DETECTION IN OPTICAL COMMUNICATION
RADC-TDR-64-130 N64-27426 19-08

EFFECT OF WAVE FRONT DISTORTION ON OPTICAL HETERODYNE DETECTION SYSTEM
TM-118 N64-32759 24-08

HETEROGENEITY
APPLICATIONS OF CALCULUS FOR FACTORIAL ARRANGEMENTS - TWO WAY ELIMINATION OF HETEROGENEITY
MRC-410 N64-12331 03-20

DILUTE DIFFUSION FLAME OF SPHERICAL SYMMETRY MAINTAINED BY HETEROGENEOUS REACTION - SQUID PROJECT
CAL-89-P N64-13717 05-26

DOPPLER EFFECT DURING RECEIVER MOVEMENT THROUGH HETEROGENEOUS MEDIUM
FTD-TT-63-673/1&2 N64-16385 08-23

HETEROMETALLIC PHENOMENA IN LIQUID METAL SYSTEMS
N64-20793 14-18

VISCOELASTIC BEHAVIOR OF HETEROGENEOUS SUSPENSIONS
TR-4 N64-32270 23-25

HEXAGONAL CELL
FERROMAGNETIC RESONANCE MEASURED ON CRYSTAL ORIENTED HEXAGONAL FERRITES
HDL-TR-1227 N64-27933 20-25

HEXAMETHYLENETETRAMINE
CHEMICAL REACTION OF AMINO NITROGEN - NITROLYSIS OF HEXAMETHYLENETETRAMINE
PA-TR-3116 N64-24952 17-07

HIGH ALTITUDE
MEASUREMENTS OF SHOCK WAVE OVERPRESSURES FROM AIRPLANES AT ALTITUDES TO 75,000 FEET & SUPERSONIC SPEED
NASA-TN-D-2021 N64-10451 01-04

RELATIONSHIP BETWEEN INSPIRED OXYGEN CONCENTRATION AND AIRCRAFT CABIN ATMOSPHERIC PRESSURE IN HIGH ALTITUDE FLIGHT
FPRC-1214 N64-25848 18-16

FLIGHT INFORMATION SENSORS, DISPLAY SYSTEM, AND CONTROL OF X-15 AIRCRAFT FOR HIGH ALTITUDE FLYING
NASA-TN-D-2407 N64-26629 18-15

HIGH ALTITUDE SOUNDING PROJECTILE /HASP/
AERODYNAMIC AND AEROTHERMODYNAMIC STUDY ON HIGH ALTITUDE SOUNDING PROJECTILE /HASP/
NOLTR-63-210 N64-28875 20-02

HIGH ALTITUDE TESTING
MAGNETIC DISTURBANCES AT HIGH ALTITUDE
NASA-TT-F-9017 N64-23132 16-12

FACILITY FOR TESTING ROCKET ENGINE PERFORMANCE AT HIGH ALTITUDE SIMULATED CONDITIONS
NASA-TM-X-969 N64-23329 16-30

HIGH ALTITUDE MAN SEAT STABILIZATION STUDY
CEPE-1681 N64-26348 18-16

HIGH ENERGY ELECTRON
ENERGY DEPOSITED IN SHIELDED SOLAR CELLS BY HIGH-ENERGY ELECTRONS N64-12535 04-23

INELASTIC SCATTERING OF HIGH ENERGY ELECTRONS FROM CARBON, OXYGEN, AND CALCIUM
AD-424383 N64-12924 04-23

COMPUTER CALCULATION OF HIGH ENERGY SECONDARY ELECTRON EMISSIONS WITH RESPECT TO INTENSITY, ENERGY LOSS, AND ENERGY & EMISSION SPECTRA
AFSWC-TDR-63-50 N64-13774 05-23

HIGH ENERGY PROTON OR ELECTRON BEAM FOR ATMOSPHERIC RESEARCH N64-17114 09-21

PRODUCTION OF BREMSSTRAHLUNG BY INTERACTION OF HIGH ENERGY ELECTRONS WITH BULK MATTER
NASA-CR-58178 N64-27893 20-23

ACCELERATION MECHANISMS FOR HIGH ENERGY ELECTRONS IN THETA PINCH
NUP-64-8 N64-30640 22-24

X-RAY EMISSION OF PROTON FLARES - PECULIARITIES AND SPECTRUM HARDENING
NASA-TT-F-8956 N64-30849 22-28

X-RAYS PRODUCED BY BREMSSTRAHLUNG ON THICK TARGET WITH 1.2 MEV ELECTRONS - INTENSITY DISTRIBUTION AROUND VAN DE GRAAFF ACCELERATOR
LFEN.7 /GAMMA, DELTA/ N64-31032 22-23

INTERACTIONS OF HIGH ENERGY PHOTONS AND ELECTRONS WITH MATTER IN GAS PHASE AND MASS CHARGE SPECTRA MEASUREMENTS PRODUCED BY X-RAY & HIGH ENERGY ELECTRON IONIZATION
ML-TDR-64-169 N64-31893 23-07

SOURCE OF POLARIZED ELECTRONS FOR HIGH ENERGY ACCELERATOR AND PRECISION MEASUREMENT OF THE TRIATOMIC HELIUM NUCLEAR MAGNETIC MOMENT
N64-32248 23-23

HIGH ENERGY INTERACTION
QUANTUM ELECTRODYNAMICS - HIGH ENERGY INTERACTIONS OF ELECTRONS AND POSITRONS
JPRS-17999 N64-10494 01-23

INTRANUCLEAR CASCADE CALCULATIONS FOR INCIDENT PARTICLE ENERGIES TO 2-GEV N64-12539 04-23

NOMENCLATURE SCHEME FOR HIGH-ENERGY NUCLEAR CROSS SECTIONS N64-12543 04-23

SPECTRA OF GAMMA RAYS PRODUCED BY HIGH-ENERGY PROTON INTERACTION WITH BERYLLIUM, CARBON, COBALT, OXYGEN, ALUMINUM, & BISMUTH
ORNL-3506, SUMMARY N64-12544 04-23

ENERGY DEPOSITION DISTRIBUTION IN WATER-FILLED PHANTOM BY INTERACTIONS OF 160-MEV PROTON BEAM
ORNL-3457 N64-12546 04-23

INCOMPATIBILITY OF EXACT & APPROXIMATE SOLUTIONS TO BOOTSTRAP THEORY USING SOLVABLE MODEL - THEORETICAL PHYSICS OF HIGH ENERGY INTERACTIONS
N64-13044 04-23

HIGH ENERGY PHASE SHIFT ANALYSIS OF PION-PION INTERACTION AT 970 MEV
RIFP-31 N64-15773 07-23

CARBON 13-OXYGEN 16 ALPHA-NEUTRON REACTION BETWEEN 5.9 AND 8.4 MEV
UR-875-8 N64-17981 10-23

POSSIBLE INSERTIONS OF FUNDAMENTAL INTERMEDIATE BOSON-CURRENT INTERACTION INTO UNITARY SYMMETRY GROUP - WEAK INTERACTIONS N64-18006 10-23

RADIOACTIVITY INDUCED IN MATERIALS BY HIGH ENERGY PARTICLES
CERN-64-9 N64-18144 10-23

BROKEN UNITARY SYMMETRY IN AXIAL VECTOR CURRENT FOR LEPTONIC DECAYS OF STRONGLY INTERACTING PARTICLES
UR-875-34 N64-22113 15-23

DETECTOR ARRAY FOR COSMIC RAY INVESTIGATIONS OF PRODUCTION, NATURE, AND INTERACTION OF HIGH ENERGY PARTICLES
AROD-2427-1 N64-23138 16-23

EFFECTIVE MASS SPECTRA OF TWO-BODY PRODUCTS IN HIGH ENERGY NUCLEAR REACTION
LNF-64/7 N64-23897 16-23

TRILINEAR COUPLINGS FORBIDDEN BY NONET SYMMETRY FOR VECTOR MESONS - HIGH ENERGY INELASTIC PROCESS
TH-60 N64-26265 18-23

ANTIHYPERON-NUCLEON SCATTERING CROSS SECTION CALCULATIONS
UR-875-28 N64-26686 18-23

EXPONENTIAL DAMPING OF LARGE TRANSVERSE MOMENTA OF PARTICLES PRODUCED IN HIGH ENERGY COLLISION
TH-58 N64-27219 19-23

NUCLEON TRANSPORT CODE WRITTEN FOR IBM 7090 COMPUTER - CALCULATION OF AVALANCHE BEHAVIOR IN HIGH ENERGY INTERACTIONS OF NUCLEONS USING MONTE CARLO METHOD
ORNL-3610 N64-28786 20-23

THEORY OF HIGH ENERGY DIFFRACTION - COLLISIONS OF FAST PARTICLES WITH NUCLEI N64-29069 21-23

MEASUREMENT OF PARTICLES PRODUCED IN HIGH ENERGY INTERACTIONS, AND TEMPORAL AND SPATIAL VARIATIONS OF COSMIC RAYS WITH NEUTRON MONITORS
AD-601938 N64-30484 22-28

HIGH ENERGY PROPELLANT
ROCKET ENGINE EXHAUST PRODUCTS FROM HIGH ENERGY SOLID, LIQUID, & HYBRID PROPELLANT SYSTEMS
QR-7414-9 N64-14627 06-27

CONTROL OF BERYLLIUM DURING PRODUCTION AND TESTING OF HIGH ENERGY PROPELLANTS CONTAINING BERYLLIUM - INDUSTRIAL SAFETY
RPL-TDR-64-10, VOL. 2 N64-18013 10-17

BIBLIOGRAPHY - HIGH ENERGY PROPELLANTS
NASA-SP-7002 N64-21785 15-26

'IQUID HYDROGEN USE AS SPACE FUEL
N64-23909 16-26

PERFORMANCE IMPROVEMENT OF SPHERICAL ROCKET MOTOR USING HIGH ENERGY POLYURETHANE PROPELLANT
MPR-17 N64-32676 23-27

HIGH FLUX ISOTOPE REACTOR
NUCLEAR RESEARCH, INCLUDING WORK ON HIGH TEMPERATURE MATERIALS, ZIRCONIUM METALLURGY, HIGH FLUX ISOTOPE REACTOR, GAS COOLED REACTOR, AND THORIUM UTILIZATION PROGRAM
ORNL-3670 N64-32700 24-23

HIGH FREQUENCY
HIGH FREQUENCY AND VERY HIGH FREQUENCY ROCKETBORNE SHROUD ANTENNAS
NASA-TM-X-51059 N64-10109 01-09

SHORT-CIRCUITED-RING ELECTRODYNAMIC AMMETER FOR ESTABLISHING ACCURATE ABSOLUTE STANDARD OF CURRENT AT HIGH FREQUENCIES N64-10463 01-09

CIRCUIT RELIABILITY, FREQUENCY UTILIZATION, AND FORECASTING IN HIGH FREQUENCY COMMUNICATIONS BAND
N64-15450 07-08

STATISTICAL STUDY TO ASCERTAIN VALIDITY OF AMR RADIO CIRCUIT PERFORMANCE SUMMARIES FOR HF RADIO OUTAGE
TOR-269/A4306/-6 N64-16877 08-08

HIGH FREQUENCY TREATMENT OF CADMIUM SULFIDE SINGLE CRYSTAL TO INCREASE CONDUCTIVITY
N64-17968 10-25

HIGH FREQUENCY TECHNIQUE FOR MEASURING BULK CARRIER LIFETIME IN SILICON SAMPLES WITHOUT ELECTRODES
AD-433623 N64-18225 10-25

RADIO PROPAGATION EFFECTS ABOVE 10 GC/S AND ANTENNA NOISE ABOVE 1000 MC/S - INCREASED IMPORTANCE OF TROPOSPHERIC EFFECTS
N64-18243 10-08

MINUTEMAN ICBM HIGH FREQUENCY RADIO COMMUNICATIONS SYSTEM TEST
T2-3188-1 N64-19915 12-08

HIGH FREQUENCY UNIPOLAR FIELD EFFECT TRANSISTOR
REPT.-4 N64-19963 12-09

CONSTRUCTION AND TESTS OF HIGH FREQUENCY WIRE GRID LENS ANTENNA
RD-64-33 N64-20272 13-09

SPACE ENVIRONMENT AND HIGH FREQUENCY EFFECTS ON BREAKDOWN STRENGTHS OF DIELECTRIC MATERIALS
NASA-CR-56034 N64-20605 13-13

DIFFRACTION OF HIGH FREQUENCY PLANE ELECTROMAGNETIC WAVE BY CONDUCTING CIRCULAR DISC
EM-189 N64-23337 16-23

HIGH FREQUENCY INDUCTION HEATING FOR ROCK DEFORMATION TESTING
AFCRL-64-215 N64-25478 17-13

BINAURAL MASKING-LEVEL DIFFERENCES AT HIGH FREQUENCIES N64-26026 18-08

POWER SPECTRAL DENSITY ESTIMATES OF FADING OF HIGH FREQUENCY RADIO WAVES
D1-82-0244 N64-26549 18-08

ENERGY METHOD FOR PREDICTION OF HIGH FREQUENCY NOISE AND VIBRATION TRANSMISSION
N64-27403 19-33

SIGNAL TO NOISE RATIO REQUIREMENTS FOR MILITARY COMMUNICATION SYSTEMS OPERATING IN HIGH FREQUENCY BAND
TR-4 N64-27526 19-08

HIGH FREQUENCY ELECTRON BEAM PARAMETRIC AMPLIFIER DEVELOPMENT
QPR-8 N64-27709 19-09

GAS DISCHARGES IN SUPER HIGH FREQUENCY FIELDS
N64-29054 21-11

HIGH FREQUENCY JUNCTION TRANSISTORS
N64-29072 21-01

DISPERSION, ATTENUATION, AND PROPAGATION OF HIGH FREQUENCY SIGNALS IN IONOSPHERE
RADC-TDR-64-219 N64-29827 21-12

POLAR HIGH FREQUENCY RADIO PROPAGATION
RR-64-16-46 N64-29832 21-08

COMPARISON OF LOG PERIODIC ANTENNA WITH RHOMBIC ANTENNA FOR HIGH FREQUENCY BAND
EDL-M548 N64-29927 21-08

REFRACTED ARRIVAL FROM HIGH SPEED LAYER EMBEDDED IN INFINITE MEDIUM INVESTIGATED BY HIGH FREQUENCY GEOMETRIC RAY THEORY
AFCRL-64-608 N64-30003 21-23

MEASUREMENT OF CONDUCTIVITY OF WEAKLY IONIZED PLASMA BY HIGH FREQUENCY SOUND
TP-111 /1964/ N64-30478 22-24

HIGH FREQUENCY DIGITAL COMMUNICATION SYSTEM OPERATING UNDER MULTIPATH PROPAGATION AND DOPPLER SHIFT
NCR-3F N64-30736 22-08

THREE-PHASE SYNCHRONOUS GENERATOR WITH MAGNETIC FLUX THROWOVER AS SOURCE OF HIGH FREQUENCY ELECTRIC ENERGY
FTD-TT-64-486/1&2 N64-30878 22-06

FIELD STRENGTH MEASUREMENTS AT HIGH FREQUENCY
RADC-TDR-64-106 N64-32116 23-08

FLUORESCENCE DURATION MEASUREMENT WITH PHASE FLUOROMETER - EXCITATION BY HIGH FREQUENCY MODULATED LIGHT
TR-413 N64-32275 23-23

STIMULATING EFFECT OF HIGH FREQUENCY ULTRASONICS ON YEAST CELL REPRODUCTION N64-32955 24-16

HIGH GRAVITY ENVIRONMENT
FEASIBILITY OF GYROSCOPE SUITABLE FOR OPERATION IN HIGH GRAVITY ENVIRONMENTS
RG-431712 N64-16981 09-15

HIGH SPEED
FREE FLIGHT MOUNTING SYSTEM FOR HIGH SPEED WIND TUNNEL FLUTTER TESTING OF DYNAMIC MODELS
N64-29257 21-33

HIGH SPEED CAMERA
ELECTRIC ARCS, HIGH SPEED PHOTOGRAPHY, ACOUSTIC NOISE SPECTROMETRY, TEMPERATURE MEASUREMENTS, AND SPECTROMETER CONSTRUCTION - PLASMA PHYSICS
LAS-SR-239-3 N64-14777 06-24

HIGH SPEED IMAGE CONVERTER CAMERA ELUCIDATION OF FORMATION OF DETONATION WAVES IN STOICHIOMETRIC MIXTURE OF HYDROGEN AND OXYGEN
NASA-TN-D-2242 N64-18732 11-26

HIGH SPEED CAMERA FOR METALLOGRAPHIC AND CRACK PROPAGATION STUDIES
ARL-64-69 N64-23969 16-18

ANALOGY OF SHOCK WAVE INTERACTION TO INTERACTION OF SHOCK WAVE WITH WALL SHOWN BY HIGH SPEED PHOTOGRAPHY
FTD-MT-64-19 N64-30151 21-24

HIGH STRENGTH ALLOY
STRESS CORROSION CRACKING OF HIGH STRENGTH ALLOYS
REPT.-0414-01-9 N64-10542 01-33

DURABILITY AND HIGH-STRENGTH OF TITANIUM BASE ALLOYS PREPARED AT TWO INTERSTITIAL LEVELS
WAL-TR-401/303-2 N64-10554 01-18

STRESS CORROSION CRACKING IN HIGH STRENGTH FERROUS ALLOYS
FZM-2690 N64-12665 04-18

WELDABLE HIGH-STRENGTH ALUMINUM ALLOYS - LITERATURE REVIEW AND BIBLIOGRAPHY
NASA-CR-52372 N64-13067 04-18

STRESS-CORROSION CRACKING OF HIGH STRENGTH ALLOYS - TITANIUM AND NICKEL ALLOYS
L0414-01-21 N64-13591 05-18

HIGH STRENGTH AND FRACTURE TOUGHNESS IN STEEL THROUGH STRAIN-INDUCED TRANSFORMATION
WAL TR-323.4/2-31 N64-13868 05-18

CRYOGENIC STRETCH-FORMING OF HIGH STRENGTH ALLOYS
QTR-2 N64-13894 05-18

STRESS-CORROSION CRACKING OF HIGH STRENGTH ALUMINUM ALLOYS
NASA-CR-55857 N64-16734 08-18

ENDURANCE OF TOOLS IN MACHINING OF HIGH STRENGTH METALS N64-17103 09-17

EXTRUSION TECHNOLOGY OF HIGH STRENGTH TITANIUM ALLOY
ASD-TR-8-103, VOL. 2 N64-19112 11-17

HIGH STRENGTH LIGHTWEIGHT TITANIUM ALLOY PRESSURE VESSEL FOR SOLID FUEL ROCKET MOTOR CASES
WAL-TR-766.2/1-13 N64-20383 13-33

DELAYED FAILURE IN HIGH STRENGTH METALS WETTED BY EMBRITTLING LIQUID METALS
IITRI-8183-16 N64-20566 13-18

STRESS CORROSION CRACKING OF HIGH STRENGTH NICKEL ALLOYS & STEELS
REPT.-0414-02-3 N64-20572 13-18

THERMOMECHANICAL TREATMENT AND STRENGTHENING OF ALLOYS
JPRS-24942 N64-21286 14-18

ACOUSTIC DETECTION OF CRACK INITIATION IN SHARPLY NOTCHED SPECIMENS OF HIGH STRENGTH ALLOYS
NASA-RP-180 N64-21304 14-33

EFFECT OF CHEMICAL COMPOSITION ON ARTIFICIAL AGE HARDENING & STRESS CORROSION CRACKING OF HIGH STRENGTH ALUMINUM-ZINC-MAGNESIUM-COPPER ALLOYS
RSIC-177 N64-21912 15-18

HIGH STRENGTH ALPHA-BETA TITANIUM BASE ALLOYS
WAL-TR-401-303-4 N64-22106 15-18

WELDING HIGH STRENGTH ALUMINUM ALLOYS IN PLATE THICKNESSES SUITABLE FOR APPLICATION AT CRYOGENIC TEMPERATURES
NASA-CR-58616 N64-28846 20-18

WELDING TECHNIQUES AND FILLER METALS FOR HIGH STRENGTH ALUMINUM ALLOYS
NASA-CR-58536 N64-29705 21-18

MANUFACTURING PROCESS TO PRODUCE HIGH STRENGTH BERYLLIUM WIRE
TR-360-243 N64-30818 22-18

PROCESSING OF HIGH STRENGTH NIOBIUM ALLOY FOR SHEET ROLLING
AD-606291 N64-33427 24-18

HIGH STRENGTH STEEL
PLANE STRAIN FRACTURE TOUGHNESS OF QUENCHED AND TEMPERED STEEL
WAL-TR-310.24/5-4 N64-10245 01-18

BRAZING OF HIGH STRENGTH STEELS ALLOYED WITH SPECIAL ELEMENTS AND USING HIGH TEMPERATURE, CORROSION RESISTANT BRAZES
JPRS-22033 N64-11267 02-18

TENSION FATIGUE TESTING OF HIGH STRENGTH STEEL
ASD-TDR-63-645 N64-11442 03-18

EFFECT OF WATER & WATER VAPOR IN STABLE CRACK EXTENSION AND DELAYED FRACTURE IN HIGH STRENGTH STEEL
NRL-TM-240 N64-12077 03-18

INVESTMENT CASTING OF THIN WALLED LARGE CASTINGS & WHOLLY CAST DISKS WITH BLADES FROM HEAT RESISTANT & HIGH STRENGTH STEELS
JPRS-22509 N64-12143 03-17

HIGH STRENGTH STEEL - HYDROGEN CAUSED EMBRITTLEMENT AND FAILURE
DMIC-MEMO-180 N64-12309 03-18

FORGED NICKEL-COBALT-MOLYBDENUM MARAGING STEEL EVALUATION FOR USE IN AIRCRAFT COMPONENTS
FZM-2731 N64-12375 03-18

IMPROVING CORROSION RESISTANCE OF CHROMIUM PLATING ON HIGH STRENGTH STEEL
FTDM-2960 N64-12602 04-18

BEHAVIOR OF STEEL PRESSURE VESSELS UNDER BIAXIAL STRESS IN PRESENCE OF SURFACE CRACKS
RRL-TM-242 N64-12609 04-33

HIGH-STRENGTH, ELEVATED-TEMPERATURE, CORROSION-RESISTANT STEEL - PRECIPITATION REACTIONS, MECHANICAL, PHYSICAL, & METALLURGICAL PROPERTIES
ASD-TDR-63-766 N64-12658 04-18

PHYSICAL & MECHANICAL PROPERTIES OF ALLOYED HIGH-STRENGTH STEELS FOR SOLID PROPELLANT ROCKET MOTOR CASES
AD-424490 N64-12934 04-18

STRESS-CORROSION CRACKING TESTS AND RESULTS OF VACUUM CAST NICKEL-COBALT-STEEL WITH LOW CARBON
L0414-01-24 N64-13121 04-18

EVALUATION OF HIGH-STRENGTH, LIGHTWEIGHT LAMINATED PRESSURE VESSELS OF LAP-JOINT CONSTRUCTION
WAL-TR-766.2/3-4 N64-13241 04-33

CORROSION FATIGUE TEST OF SURFACE-TREATED HIGH STRENGTH STEELS
NEL-102 N64-13342 04-18

STRESS CORROSION CHARACTERISTICS OF HIGH STRENGTH NICKEL MARAGING STEELS
REPT.-0414-02-1 N64-13867 05-18

STATISTICAL ANALYSIS OF VACUUM MELTING AND ARC REMELTING OF HIGH STRENGTH STEEL
ASD-TR-7-678/V/ N64-14503 06-18

STRESS-CORROSION CRACKING OF HIGH STRENGTH NICKEL ALLOY STEELS
FZM-2951 N64-14617 06-18

ULTRAHIGH STRENGTH BAINITE AND SHEAR SPINNING & STRENGTHENING OF MARAGING STEEL
N64-15666 07-18

DELTA TITANIUM-CADMIUM PLATING FOR HIGH STRENGTH STEELS
A464 N64-17130 09-17

HIGH STRENGTH STEEL - MARTENSITIC STEEL HEAT TREATMENT
N64-17209 09-18

COMPOSITIONS OF AUSTENITIC STAINLESS STEELS FOR ACHIEVEMENT OF ULTRAHIGH STRENGTH BY CRYOGENIC STRETCH-FORMING
QTR-3 N64-17372 09-18

SURFACE CRACK TOUGHNESS OF TWO HIGH STRENGTH SHEET STEELS
NRL-5895 N64-17373 09-19

ENVIRONMENTAL EFFECTS ON CRACK PROPAGATION IN HIGH STRENGTH STEEL
RTD-TDR-63-4225 N64-17524 09-18

DENDRITIC MORPHOLOGY OF UNIDIRECTIONALLY SOLIDIFIED AISI 4340 STEEL CASTINGS
AMRA-CR-63-04/2 N64-18194 10-18

DEGASSING CHROMIUM STEEL AND CASTING MARAGING STEEL
ASD-TDR-63-708 N64-18260 10-18

ELECTRON-MICROSCOPIC FRACTOGRAPHIC STUDY OF INTERGRANULAR FRACTURE IN HIGH STRENGTH STEELS
DMIC-MEMO-187 N64-18596 11-18

STRESS CORROSION CRACKING OF HIGH STRENGTH STEELS
LO414-02-6 N64-18622 11-18

MAGNETOSTRICTIVE RESPONSE OF HIGH STRENGTH STEELS TO CYCLIC FATIGUE TESTING
RA-254/63 N64-19318 12-18

FRACTURE TOUGHNESS IN HIGH STRENGTH 4335-V STEEL
ASD-TDR-62-868, PT. 2 N64-20085 13-18

CRACK FORMATIONS IN WELDED JOINTS OF HIGH STRENGTH STEEL - BIBLIOGRAPHY
DMIC-197 N64-20378 13-18

STRESS CORROSION CRACKING OF HIGH STRENGTH NICKEL ALLOYS & STEELS
REPT.-0414-02-3 N64-20572 13-18

STATISTICAL ANALYSIS EVALUATION OF MELTING AND TRANSVERSE PROPERTIES OF HIGH STRENGTH STEEL
ASD-TR-7-678/VI/ N64-20843 14-18

SOLIDIFICATION OF HIGH STRENGTH STEEL - COOLING EFFECT ON DENDRITE ARM SPACING, MICROSEGREGATION, AND DENDRITE MORPHOLOGY OF IRON-NICKEL ALLOY
AMRA-CR-63-04/1 N64-21354 14-18

PLASTIC DESIGN IN HIGH STRENGTH STEEL - DUCTILITY
REPT.-297.5 N64-21772 15-34

STRESS CORROSION CRACKING OF HIGH STRENGTH STEEL
LO414-02-7 N64-22532 15-18

MECHANICAL PROPERTIES OF HIGH STRENGTH STEEL FORGINGS
RTD-TDR-63-4050 N64-22568 15-18

STATIC FATIGUE PROPERTIES OF DIFFUSED NICKEL CADMIUM PLATED HIGH STRENGTH STEELS
A733 N64-22579 15-18

VACUUM DEGASSING IN MANUFACTURE OF HIGH STRENGTH STEEL
DMIC-200 N64-23250 16-18

FRACTURE TOUGHNESS OF 18 PERCENT NICKEL MARAGING STEEL N64-24361 17-18

MECHANICAL PROPERTIES OF 18 PERCENT NICKEL MARAGING STEEL AT LOW AND CRYOGENIC TEMPERATURES
N64-24363 17-18

ORIENTATION DEPENDENCE OF TENSILE STRENGTH AND FRACTURE TOUGHNESS OF 25 PERCENT NICKEL MARAGING STEEL PREPARED BY UNIDIRECTIONAL SOLIDIFICATION
N64-24364 17-18

TENSILE STRENGTH AND FATIGUE TESTS OF 18 PERCENT NICKEL MARAGING STEEL AND 9 PERCENT NICKEL STEEL
N64-24365 17-18

MECHANICAL PROPERTIES AND TENSILE STRENGTH OF 18 PERCENT NICKEL MARAGING STEEL PRODUCED BY INVESTMENT CASTING N64-24366 17-17

FRACTURE TOUGHNESS AND STRESS CORROSION OF 9 PERCENT AND 18 PERCENT NICKEL MARAGING STEELS AND OTHER HIGH STRENGTH STEELS N64-24367 17-33

MECHANICAL PROPERTIES OF 18 PERCENT NICKEL MARAGING STEEL AT NORMAL AND HIGH TEMPERATURES
N64-24369 17-18

LOW CYCLE FATIGUE CHARACTERISTICS OF ULTRAHIGH STRENGTH STEELS
R-1707 N64-24847 17-18

STRESS CORROSION CRACKING OF NICKEL MARAGING AND MARTENSITIC HIGH STRENGTH STEELS
LO414-02-8 N64-26873 18-33

EFFECT OF SECTION SIZE ON NOTCH TENSILE STRENGTH OF HIGH STRENGTH STEEL, ALUMINUM ALLOYS, AND PLEXIGLASS
SURI-MET-1078-664-12 N64-27083 19-17

EFFECTS OF THERMOMECHANICAL TREATMENTS ON MECHANICAL PROPERTIES OF HIGH STRENGTH STEELS
AD-603346 N64-27847 19-18

NEW HIGH STRENGTH STEELS WITH GOOD WELDING AND MECHANICAL PROPERTIES N64-29037 21-18

EFFECT OF COMPLEX REDUCING AGENT IN SMELTING ON MECHANICAL PROPERTIES OF CAST LOW-ALLOY MANGANESE STEEL N64-29038 21-18

HOT CRACKING TENDENCIES OF HIGH STRENGTH STEELS SUBJECTED TO THERMAL CYCLING
MEL-90-64 N64-29438 21-33

EFFECT OF URANIUM ON ISOTHERMAL TRANSFORMATION AND HARDENING ABILITY OF LOW ALLOY STEEL
BM-RI-6515 N64-30066 21-18

ULTRAHIGH STRENGTH CASES FOR SOLID PROPELLANT ROCKET ENGINES OF MARAGING STEEL
WAD-R-407F N64-30969 22-17

URANIUM ADDITION EFFECT ON HYDROGEN EMBRITTLEMENT SUSCEPTIBILITY OF HIGH STRENGTH STEEL
NAEC-AML-1759 N64-31626 23-18

STRESS-CORROSION CRACKING OF MARAGING, LOW ALLOY MARTENSITIC, AND HOT WORKED DIE STEELS
REPT.-2914 N64-32533 23-18

TRANSITION FROM DUCTILE FLOW TO BRITTLE FRACTURE BEHAVIOR IN MODERATELY HIGH STRENGTH STEELS MEASURED BY REVERSE BEND METHOD
AD-444554 N64-33367 24-18

FLOW AND FRACTURE MICROMECHANICS IN HIGH STRENGTH STEELS AND TITANIUM ALLOYS
ML-TDR-64-182 N64-33373 24-18

HIGH TEMPERATURE AIR

AXIAL COMPRESSION TEST OF EFFECT OF HIGH VELOCITY AND HIGH TEMPERATURE AIR ON WHEEL BUMP FAIRING MATERIALS
A487 N64-17145 09-02

RADIATION PROPERTIES OF AIR AT 2000-8000 DEG K
RM-3997-ARPA N64-19561 12-23

CONTINUUM RADIATION FROM HIGH TEMPERATURE AIR AND NITROGEN
NASA-CR-53637 N64-19623 12-24

SPECTRAL DISTRIBUTION OF ENERGY RADIATED BY HIGH TEMPERATURE EQUILIBRIUM AIR
DASA-1435 N64-21592 15-13

THERMAL RADIATION FROM HIGH TEMPERATURE AIR
TR-1225 N64-25342 17-13

HIGH TEMPERATURE EQUILIBRIUM THERMODYNAMIC PROPERTIES OF AIR N64-28177 20-13

FAR INFRARED MEASUREMENT OF HIGH TEMPERATURE AIR FROM ARC HEATED PLASMA TUNNEL
REPT.-1565-7 N64-28457 20-24

PHOTOMETER MEASUREMENTS OF CONTINUUM RADIATION EMITTED FROM HIGH TEMPERATURE AIR IN EQUILIBRIUM REGION BEHIND INCIDENT AND REFLECTED SHOCK WAVES
AVCO-EVERETT RES. NOTE-486 N64-32072 23-11

HIGH TEMPERATURE ALLOY
PROPERTIES OF ALLOYS BRAZED WITH HIGH TEMPERATURE SOLDERS
JPRS-21927 N64-10354 01-17

INFLUENCE OF CERIUM, LANTHANUM, AND NEODYMIUM ON PROPERTIES OF HIGH-TEMPERATURE NICKEL-BASE ALLOYS
JPRS-21895 N64-10382 01-18

RADIATION EFFECT ON TIME, TEMPERATURE, AND STRESS PROPERTIES OF REFRACTORY METALS AND HIGH TEMPERATURE ALLOYS N64-16997 09-18

HIGH TEMPERATURE ALLOYS AND ALLOY MICROSTRUCTURE
FTS-9848/1&2&4 N64-17026 09-18

CHANGES IN MICROSTRUCTURE, HARDNESS, AND ELECTRIC CONDUCTIVITY DURING CREEP IN HIGH TEMPERATURE STEELS N64-17027 09-18

RESISTANCE OF HIGH TEMPERATURE ALLOYS TO SMALL PLASTIC DEFORMATIONS N64-17028 09-18

ALLOYING TUNGSTEN AND MOLYBDENUM WITH PEARLITIC STEEL - HIGH TEMPERATURE ALLOY N64-17029 09-18

STRAIN AGING OF HIGH TEMPERATURE ALLOYS WITH RESISTANCE TO PLASTIC DEFORMATION N64-17030 09-18

HEAT OF SUBLIMATION AND HIGH TEMPERATURE YIELD STRENGTH OF ALLOYS N64-17031 09-18

MACHINING WEAR-RESISTANT ALLOYS & HIGH TEMPERATURE CORROSION-RESISTANT ALLOYS N64-17095 09-17

FATIGUE AND OXIDATION OF HIGH TEMPERATURE ALLOYS
JPRS-24826 N64-24530 17-18

STRENGTH AND WORKABILITY OF HIGH TEMPERATURE NICKEL-BASE, COBALT-BASE, AND COBALT-REFRACTORY METAL SUPERALLOYS
NASA-TN-D-2495 N64-31001 22-18

TENSILE & STRESS-RUPTURE DATA ON HIGH TEMPERATURE NICKEL ALLOY
REPT.-2-53431/3R-478 N64-31708 23-18

STRONG, DUCTILE TANTALUM ALLOYS FOR HIGH TEMPERATURE SERVICE
QPR-1 N64-32378 23-18

ANNOTATED BIBLIOGRAPHY ON HIGH TEMPERATURE SUPERALLOYS AND PROTECTIVE COATINGS
PDC-SEARCH-63-050 N64-32409 23-18

HIGH TEMPERATURE ENVIRONMENT
CF THERMAL ENVIRONMENT
HIGH TEMPERATURE ENVIRONMENT EFFECTS ON HUMAN AND ANIMAL BLOOD COMPOSITION AND PROPERTIES
JPRS-21405 N64-10002 01-16

ABSORPTION COEFFICIENT OF NITROGEN DIOXIDE FOR WAVELENGTHS BETWEEN 2500 AND 8000 ANGSTROMS AT HIGH TEMPERATURES
DASA-1416 N64-11463 03-23

TENSILE STRENGTH AT HIGH TEMPERATURE AND PHASE IDENTIFICATION FOR TANTALUM-TUNGSTEN-HAFNIUM-CARBON ALLOY SHEETS
WANL-PR-M-007 N64-14639 06-18

THERMODYNAMIC PROPERTIES OF PHENOL FORMALDEHYDE RESIN AT TEMPERATURES TO 6000 DEGREES KELVIN AND PRESSURES TO 100,000 ATMOSPHERES
RM-3988-PR N64-14979 06-13

HIGH TEMPERATURE SORPTION OF OXYGEN AND NITROGEN BY NIOBIUM IN ULTRAHIGH VACUUM
TID-19489 N64-16069 07-18

RAREFIED HIGH TEMPERATURE HYPERSONIC SLIP FLOW OVER FLAT PLATE WITH SHARP LEADING EDGE
AD-432130 N64-16854 08-02

HIGH TEMPERATURE MATERIALS AND SLOTTED ANTENNAS TO OPERATE IN HIGH TEMPERATURE ENVIRONMENT
CAL-UB-1807-E-2 N64-16855 08-09

HIGH TEMPERATURE STRESS AGING ON FATIGUE STRENGTH OF RIVETED LAP JOINTS N64-16914 09-18

LAP SHEAR PROPERTIES OF LOW TEMPERATURE CURING, HIGH TEMPERATURE RESISTANT ADHESIVE AFTER EXPOSURE TO ELEVATED TEMPERATURES
A481 N64-17139 09-18

FOUR-TUBE PREAMPLIFIER FOR AMPLIFYING PULSE OUTPUT OF FISSION COUNTERS IN HIGH TEMPERATURE AND NUCLEAR RADIATION ENVIRONMENT
PWAC-427 N64-18142 10-09

INTERMITTENT CREEP AND STABILITY TEST OF EXPOSURE TO HIGH TEMPERATURE, AND FRACTURE TOUGHNESS
FPR-007/4/ N64-19159 11-18

HEAT CAPACITY CALCULATIONS FOR HIGH TEMPERATURES AND APPLICATIONS IN GAS DYNAMICS
R-83 N64-19977 12-13

CALIBRATING WATER COOLED HIGH TEMPERATURE ACCELEROMETER N64-20238 13-15

COMBINED HIGH TEMPERATURE-VIBRATION TESTING TECHNIQUES N64-20254 13-33

CHANGES IN WORK FUNCTION OF LANGMUIR PROBE IN LOW DENSITY DISCHARGE TUBE AT HIGH TEMPERATURES
NASA-CR-56170 N64-20817 14-24

COMPOSITE STRUCTURAL MATERIALS WITH HIGH STRENGTH-TO-WEIGHT RATIOS AT ELEVATED TEMPERATURES
AD-439813 N64-21182 14-18

EFFECT OF DEGREE OF VACUUM ON SLOW-BEND CREEP OF NIOBIUM-ZIRCONIUM ALLOY AT HIGH TEMPERATURE
ORNL-3569 N64-21298 14-18

THERMOPHYSICAL PROPERTIES OF GRAPHITE TO HIGH TEMPERATURES - BULK DENSITY & RADIOGRAPHY, SAMPLE PREPARATION & INSTRUMENT CHECKOUT
AD-438206 N64-21322 14-19

CREEP CHARACTERISTICS OF TENSION MEMBERS IN HIGH TEMPERATURES BY USING PHOTO-SCREEN METHOD
FTR-3/5-12-1963 N64-21392 14-18

ANTENNAS FOR HIGH TEMPERATURE ENVIRONMENT
CAL-UB-1807-E-4 N64-21559 15-09

EFFECT OF HIGH THERMAL RADIATION FLUX ON SEVERAL METAL ALLOYS
AL-TDR-64-27 N64-21802 15-18

VARIATION OF LATERAL CONTRACTION RATIO OF LOW-CARBON STEEL AT ELEVATED TEMPERATURE N64-22001 15-18

EVALUATION OF RESISTANCE AND RADIANT HEATING METHODS FOR HIGH TEMPERATURE TENSILE TESTING
REPT.-9347 N64-22053 15-13

SPECIFIC HEAT AND SOUND VELOCITY FOR IMPERFECT NITROGEN AT HIGH TEMPERATURES
AEDC-TDR-64-113 N64-22605 15-11

ELECTRIC PROPERTIES OF GRAPHITE AT HIGH TEMPERATURES
FTD-TT-62-1708/1&2 N64-22630 15-19

HIGH TEMPERATURE OXIDATION OF DISPERSED ALUMINUM
FTD-TT-62-1833/1&2&4 N64-22640 15-07

EFFECT OF HYDROGEN ON HIGH TEMPERATURE FLOW AND FRACTURE CHARACTERISTICS OF METALS
ORNL-3600 N64-23015 16-18

COATINGS FOR HIGH TEMPERATURE ENVIRONMENTS
N64-23213 16-18

MATHEMATICAL PREDICTION OF TEMPERATURE RISE WITHIN SEMI-INFINITE WOOD SLAB SUBJECTED TO HIGH TEMPERATURE CONDITIONS
WSS/CI PAPER-64-5 N64-24374 17-26

THERMOPHYSICAL PROPERTIES OF SODIUM AND POTASSIUM AT HIGH TEMPERATURES
NRL-6004 N64-25335 17-18

HIGH TEMPERATURE OXIDATION RESISTANT COATING
N64-25414 17-19

HYPERTHERMAL RESEARCH FACILITY N64-25427 17-10

HIGH TEMPERATURE AND HIGH ENERGY RATE METAL FORMING
ASD-TR-8-143/III/ N64-25877 18-17

PLASMA IN HIGH TEMPERATURE FLOW SURROUNDING HYPERSONIC PROJECTILE IN FLIGHT
N64-26146 18-24

CAVITATION DAMAGE TESTING OF REFRACTORY MATERIALS IN LIQUID SODIUM AT HIGH TEMPERATURE
NASA-CR-56724 N64-26353 18-25

FLUORINATION OF COPPER AT HIGH TEMPERATURES
NASA-RP-265 N64-26590 18-07

NOTCH STRENGTH OF LOW-ALLOY STEELS AT HIGH TEMPERATURES
NRL-1523 N64-26703 18-18

EMISSIVITY OF COATINGS SUBJECTED TO HIGH VACUUM AND HIGH TEMPERATURE ENVIRONMENTS
NASA-CR-58054 N64-26808 18-25

EFFECT OF HIGH TEMPERATURE AND VEHICLE MANEUVERS ON DOPPLER ANTENNAS FOR LIFTING REENTRY VEHICLE
P-64-15 N64-26902 18-08

INORGANIC REFRACTORY COMPOSITES FOR USE IN HIGH TEMPERATURE ENVIRONMENTS
RTD-TDR-63-4131, VOL. 2 N64-27020 19-01

THERMAL DISSOCIATION OF CARBON DIOXIDE FOR TEMPERATURES FROM 6000 TO 10000 DEG K - HIGH TEMPERATURE PROPERTIES OF MARS & VENUS ATMOSPHERES
NASA-CR-56537 N64-27302 19-07

ANALOG-TO-DIGITAL CONVERTER FOR HIGH TEMPERATURE ENVIRONMENT
NASA CR-56668 N64-27306 19-09

EQUILIBRIUM OF HYDROCARBONS IN HIGH TEMPERATURE ENVIRONMENT AND TEMPERATURE MEASUREMENT IN ELECTRIC ARCS N64-28178 20-13

HIGH TEMPERATURE ENVIRONMENT FOR HYDRAULIC FLUIDS, ELECTRONIC COOLANTS, FUELS, AND LUBRICANTS
N64-28180 20-26

PLASTICS FOR HIGH TEMPERATURE ENVIRONMENTS
N64-28188 20-19

THERMOCONDUCTIVITY AND RADIANT ENERGY MEASURING APPARATUS FOR NONELECTRIC CONDUCTORS AT HIGH TEMPERATURES
NASA-CR-58132 N64-28966 20-15

HIGH TEMPERATURE BEHAVIOR OF BOMBARDED AND UNBOMBARDED SILICON AND GALLIUM ARSENIDE CELLS OF VARIOUS RESISTIVITIES N64-29168 21-06

BINARY HAFNIUM-TANTALUM ALLOY FOR OXIDATION-PROTECTIVE COATING OF TUNGSTEN & TUNGSTEN-ALLOY SUBSTRATES AT VERY HIGH TEMPERATURES
REPT.-25116, VOL. 10 N64-29233 21-18

MECHANICAL RELIABILITY AND THERMOELECTRIC STABILITY OF NOBLE METAL THERMOCOUPLES AT VERY HIGH TEMPERATURES & UNDER INTENSE NUCLEAR RADIATION
SEG-TDR-64-7 N64-29651 21-15

HIGH TEMPERATURE ALKALI METAL RESISTANT INSULATION
WAED-64-39-E N64-30053 21-17

PHOSPHONITRILE POLYMERS WITH HIGH TEMPERATURE STABILITY
QR-3 N64-30535 22-07

HIGH TEMPERATURE MAGNETOGASDYNAMICS, GAS DYNAMICS OF REAL AND CHEMICALLY REACTING GASES, AND DYNAMICS OF RAREFIED GASES
AD-601730 N64-31100 22-24

PACK SILICIDE AS HIGH TEMPERATURE OXIDATION PROTECTIVE COATING FOR VANADIUM ALLOYS
IITRI-86019-5 N64-32200 23-17

PERFORMANCE OF HIGH TEMPERATURE SOLAR THERMIONIC GENERATOR
QTPR-4 N64-32365 23-06

COMPATIBLE MATERIALS FOR VAPOR-PRESSURE-OPERATED HIGH-TEMPERATURE SENSOR DEVICE
NASA-CR-50001 N64-32631 23-15

DEVELOPMENT OF HIGH CURRENT, HIGH TEMPERATURE, ALKALI METAL VAPOR-FILLED CERAMIC THYRATRONS AND RECTIFIERS
NASA-CR-54181 N64-32690 23-09

MECHANICAL PROPERTIES OF GRAPHITE AT HIGH TEMPERATURES
JPRS-27097 N64-33302 24-19

PHYSIOLOGY & PATHOLOGY OF WATER & SALT METABOLISM AND FLUID BALANCE OF WORKERS IN HOT ENVIRONMENTS
NASA-TT-F-9120 N64-33399 24-16

EFFICIENCIES OF S-BAND HELICAL ANTENNAS AT HIGH TEMPERATURE
CAL-UB-1807-E-5 N64-33477 24-08

HIGH TEMPERATURE FLUID
THERMAL STABILITY OF HIGH TEMPERATURE FLUIDS AND INTERMIXTURES
RIA-64-231 N64-26198 18-17

PROPERTIES OF HIGH TEMPERATURE GASES AND FLUIDS, COMBUSTION AND PROPULSION PROCESSES, AND COMBUSTION STUDIES IN SOLID AND LIQUID PROPELLANT ROCKET ENGINES N64-28176 20-11

HIGH TEMPERATURE ENVIRONMENT FOR HYDRAULIC FLUIDS, ELECTRONIC COOLANTS, FUELS, AND LUBRICANTS
N64-28180 20-26

HIGH TEMPERATURE GAS
SHOCK RELATIONS AND HEATING EFFECTS IN VERY DENSE, VERY-HIGH-TEMPERATURE GAS AND SIGNIFICANCE IN SUPERNOVA PHENOMENON AND WHITE DWARF STARS
AFCRL-63-898 N64-12298 03-23

CHEMICAL KINETICS IN HIGH TEMPERATURE GASES - SQUID PROJECT N64-13486 05-24

PARTITION FUNCTIONS AND THERMODYNAMIC PROPERTIES OF HIGH TEMPERATURE GASES AT EQUILIBRIUM
AEDC-TDR-64-22 N64-14370 06-13

THERMODYNAMIC PROPERTIES OF NITROGEN IN CHEMICAL EQUILIBRIUM INCLUDING SECOND VIRIAL CORRECTIONS AT VERY HIGH TEMPERATURES
AEDC-TDR-63-162 N64-17127 09-23

THERMODYNAMIC AND TRANSPORT PROPERTIES OF GASES AT HIGH TEMPERATURES AND PRESSURES - SQUID PROJECT
N64-18856 11-24

KINETICS OF CHEMICAL REACTIONS IN HIGH TEMPERATURE GAS BY DILUTE DIFFUSION FLAME - SQUID PROJECT

N64-18860 11-24

HIGH TEMPERATURE CHEMISTRY AND PHYSICS OF GASES AND GAS-CONDENSED PHASE REACTIONS - BIBLIOGRAPHY
REPT.-11 N64-19811 12-07

THERMODYNAMIC PROPERTIES OF DISSOCIATED AND IONIZED ARGON, NITROGEN, & OXYGEN GASES FOR TEMPERATURES TO 35,000 DEG K N64-19828 12-23

THERMODYNAMIC PROPERTIES OF HIGH TEMPERATURE HELIUM
REPT.-0-71000/3R-11 N64-26802 18-13

LUMINOUS SHOCK TUBE FOR SPECTROSCOPIC INVESTIGATION OF HIGH TEMPERATURE GASES
AFCRL-64-257 N64-29429 21-11

THERMODYNAMIC PROPERTIES OF ARGON AT HIGH TEMPERATURES
FTD-TT-64-461/1 N64-31800 23-24

ALUMINUM OXIDE REDUCTION BY PROPELLANT COMBUSTION GASES AT HIGH TEMPERATURE
SSD-TDR-64-160 N64-31982 23-26

HIGH TEMPERATURE MATERIAL
SINTERED ALUMINUM POWDER HIGH-TEMPERATURE MATERIAL
JPRS-17818 N64-10635 01-18

HIGH TEMPERATURE MATERIALS - IRRADIATION AND TESTS OF PHYSICAL PROPERTIES
GEMP-29A N64-12389 03-18

HIGH-STRENGTH, ELEVATED-TEMPERATURE, CORROSION-RESISTANT STEEL - PRECIPITATION REACTIONS, MECHANICAL, PHYSICAL, & METALLURGICAL PROPERTIES
ASD-TDR-63-766 N64-12658 04-18

DIELECTRIC CONSTANT AND LOSS MEASUREMENTS ON HIGH TEMPERATURE MATERIALS
MIT-TR-182 N64-12814 04-09

STRUCTURAL AND HIGH TEMPERATURE TENSILE PROPERTIES OF BORON PYROLYTIC GRAPHITE
NASA-CR-53013 N64-13267 04-19

HIGH TEMPERATURE MATERIALS TESTING
GEMP-30A N64-13318 04-19

DIELECTRIC MATERIALS FOR HIGH TEMPERATURE APPLICATIONS
RMD-5026-Q1 N64-13952 05-19

PHYSICAL AND CHEMICAL PROPERTIES OF HIGH TEMPERATURE MATERIALS FOR ROCKET NOZZLES
AD-426741 N64-14101 05-19

HIGH TEMPERATURE REACTOR MATERIAL STRESS RUPTURE CREEP TESTING, AND EFFECT OF RADIATION ON CREEP-RUPTURE PROPERTIES OF HIGH TEMPERATURE ALLOYS
GEMP-31A N64-14420 06-18

TENSILE STRENGTH AT HIGH TEMPERATURE AND PHASE IDENTIFICATION FOR TANTALUM-TUNGSTEN-HAFNIUM-CARBON ALLOY SHEETS
WANL-PR-M-007 N64-14639 06-18

HIGH TEMPERATURE MATERIALS FOR ROCKET NOZZLES AND INSERTS
REPT.-9-64 N64-16501 08-27

ULTRAHIGH TEMPERATURE PYROLYTIC GRAPHITE THERMO-COUPLE
ASD-TDR-63-844 N64-16594 08-25

HIGH TEMPERATURE MATERIALS AND SLOTTED ANTENNAS TO OPERATE IN HIGH TEMPERATURE ENVIRONMENT
CAL-UB-1807-E-2 N64-16855 08-09

HIGH TEMPERATURE MATERIALS AND REACTOR FUELS
GEMP-270A N64-16995 09-23

THEORY OF CREEP RESISTANCE AT HIGH TEMPERATURES
N64-17061 09-18

DURABILITY, CREEP, AND THERMAL FATIGUE OF HEAT RESISTANT & REFRACTORY MATERIALS SUCH AS CERMETS & ALLOYS
JPRS-24166 N64-18296 10-18

REINFORCED HIGH TEMPERATURE ELASTOMERS
AD-432322 N64-18894 11-19

THERMOPHYSICAL PROPERTIES OF SODIUM AND POTASSIUM AT HIGH TEMPERATURES
NRL-5964 N64-20849 14-18

COMPOSITE STRUCTURAL MATERIALS WITH HIGH STRENGTH-TO-WEIGHT RATIOS AT ELEVATED TEMPERATURES
AD-439813 N64-21182 14-18

GENERAL CHARACTERISTICS OF HIGH TEMPERATURE FERROELECTRIC MATERIALS
ML-TDR-64-24 N64-21509 15-19

HIGH TEMPERATURE PROPERTIES OF NUCLEAR MATERIALS FOR THERMIONIC CONVERSION SYSTEMS
N64-22979 16-09

HIGH TEMPERATURE MATERIALS
GEMP-36A N64-23264 16-26

HIGH TEMPERATURE MAGNESIUM ALLOYS
JPRS-25069 N64-23628 16-18

AIR PLASMA ARC MATERIALS TESTING FOR REENTRY
SSD-TDR-64-75 N64-24347 17-24

MECHANICAL PROPERTIES OF 18 PERCENT NICKEL MARAGING STEEL AT NORMAL AND HIGH TEMPERATURES
N64-24389 17-18

COMPOSITE MATERIAL FOR HIGH TEMPERATURE STRUCTURAL APPLICATION N64-25413 17-17

HIGH TEMPERATURE REACTOR MATERIAL FABRICATION
N64-25423 17-18

CHEMICAL ENGINEERING, NUCLEAR FUELS, NEUTRON CROSS SECTIONS, THERMOELECTRICITY, AND HIGH TEMPERATURE MATERIALS
ANL-6875 N64-25521 17-01

HIGH TEMPERATURE CHEMICAL & PHYSICAL PROPERTIES OF ROCKET NOZZLE MATERIALS
AD-442218 N64-25554 17-11

PROCESSING TECHNIQUES FOR HIGH TEMPERATURE OXIDATION RESISTANT PROTECTIVE COATING SYSTEMS
N64-27006 19-17

HIGH TEMPERATURE PROTECTIVE COATINGS FOR REFRACTORY METALS N64-27009 19-17

HIGH TEMPERATURE PROTECTIVE COATING FOR REFRACTORY METALS - TUNGSTEN N64-27010 19-17

HIGH TEMPERATURE PROTECTIVE COATINGS FOR TANTALUM AND NIOBIUM ALLOYS - REFRACTORY METALS
N64-27012 19-17

HIGH TEMPERATURE OXIDATION RESISTANT PROTECTIVE COATINGS N64-27018 19-17

HIGH TEMPERATURE OXIDATION RESISTANT PROTECTIVE COATINGS FOR REFRACTORY ALLOYS, COMPOSITE MATERIAL DEVELOPMENT, AND THERMAL RADIATION MEASUREMENT
N64-27025 19-18

HIGH TEMPERATURE MATERIALS - EVALUATION OF COATED REFRACTORY ALLOYS USING ARC-PLASMA-JET
N64-27031 19-19

NONMETALLIC MATERIALS FOR HIGH TEMPERATURE STRUCTURAL APPLICATIONS
SSD-TDR-64-10 N64-27541 19-18

PHYSICAL AND THERMODYNAMIC PROPERTIES OF MATERIALS AT HIGH TEMPERATURES
JPRS-26065 N64-27762 19-18

HIGH TEMPERATURE OXIDATION RESISTANT PROTECTIVE COATINGS FOR VANADIUM ALLOYS
IITRI-B6019-4 N64-27861 19-18

LABORATORIES IN GREAT BRITAIN CONDUCTING RESEARCH ON CONDENSED PHASES AT HIGH TEMPERATURE

N\ -29112 20-18

SYNTHESIS OF HIGH TEMPERATURE RESISTANT POLYMERS - CHLORALUMINUM PHTHALOCYANINE
QPR-2 N64-29637 21-07

ARC PLASMA JET FOR EVALUATING HIGH TEMPERATURE MATERIALS
ML-TDR-64-73 N64-29926 21-17

HIGH TEMPERATURE MATERIALS EVALUATION - COATINGS FOR REFRACTORY ALLOYS AND ARC-PLASMA-JET
ML-TDR-64-62 N64-30110 21-17

HIGH TEMPERATURE RESISTANT METAL REINFORCED REFRACTORY CERAMIC COATING FOR INSULATION OF SUBSTRUCTURES
ML-TDR-64-81 N64-30928 22-17

METAL-CERAMIC COMPOSITE MATERIALS FOR HIGH TEMPERATURE STRUCTURAL APPLICATION TO REENTRY VEHICLES
ML-TDR-64-583 N64-30929 22-18

REFRACTORY MATERIALS FOR HIGH TEMPERATURE OXIDATION-RESISTANT GRAPHITE COATINGS
WADD-TR-61-72, VOL. XXXIV N64-31307 22-17

HIGH TEMPERATURE MATERIALS - REACTOR MATERIALS FABRICATION, THERMOCOUPLE, AND ELECTRICAL MATERIALS
GEMP-39A N64-31374 23-25

HIGH TEMPERATURE SYNCHROS - ORGANIC AND INORGANIC INSULATING MATERIALS N64-31477 23-17

HIGH TEMPERATURE EXTRUSION LUBRICANTS - MAGNESIUM BORATE-GRAPHITE LUBRICANT FOR STEEL AND MOLYBDENIUM ALLOY EXTRUSION
ML-TDR-64-256 N64-32151 23-17

PHYSICAL AND CHEMICAL PROPERTIES AFFECTING HIGH TEMPERATURE MATERIALS FOR ROCKET NOZZLES
AD-448482 N64-32547 23-07

OPTIMIZATION OF ELECTRODEPOSITED HIGH TEMPERATURE PROTECTIVE COATINGS FOR ROCKET NOZZLES N64-32697 24-17

NUCLEAR RESEARCH, INCLUDING WORK ON HIGH TEMPERATURE MATERIALS, ZIRCONIUM METALLURGY, HIGH FLUX ISOTOPE REACTOR, GAS COOLED REACTOR, AND THORIUM UTILIZATION PROGRAM
ORNL-3670 N64-32700 24-23

GRAPHITE AS HIGH TEMPERATURE STRUCTURAL MATERIAL
AGARDOGRAPH-51 N64-33057 24-19

COMPOSITES OF CERAMIC OXIDES & REFRACTORY METAL AS LOW DENSITY, LOW THERMAL CONDUCTIVITY INSULATORS - HIGH TEMPERATURE THERMAL CONDUCTIVITY APPARATUS
NASA-CR-59210 N64-33121 24-17

FILLER-RUBBER SYSTEMS WITH CHEMICAL MODIFICATIONS OF SILICA & FIBROUS TALC EVALUATED AS HIGH TEMPERATURE ELASTOMERS
AD-447815 N64-33673 24-19

HIGH TEMPERATURE PLASMA
PLASMA DIAGNOSTIC METHODS FOR HIGH TEMPERATURE PLASMA RESEARCH
ARL-64-6 N64-17453 09-24

STEADY STATE CONDITIONS OF HIGH TEMPERATURE AND PINCH EFFECT IN LONGITUDINAL MAGNETIC FIELD
FTD-TT-63-373/1&2&4 N64-19218 11-24

MAGNETIC MIRROR FOR CONTAINMENT OF HIGH TEMPERATURE PLASMAS FOR STUDY OF PLASMA STABILITY, COMPRESSION, HEATING, TRANSPORT, AND DYNAMICS
RTD-TDR-63-4143 N64-20115 13-24

COLLISION DAMPING OF LONG WAVELENGTH ELECTROSTATIC OSCILLATIONS IN HIGH TEMPERATURE PLASMA N64-20651 13-24

METHODS OF RETAINING DENSE, HIGH TEMPERATURE PLASMA FOR LONG TIME PERIODS
FTD-TT-62-1788/1&2 N64-22400 15-24

INSTRUMENTATION AND DIAGNOSTIC TECHNIQUES FOR HIGH TEMPERATURE PLASMAS AND GASES HEATED WITH ARC-JET HEATERS
ARL-64-80 N64-22681 15-24

LOW FREQUENCY ELECTROMAGNETIC CONDUCTIVITY OF LOW DENSITY HIGH TEMPERATURE PLASMA
RM-3755-PR N64-26049 18-24

HIGH TEMPERATURE PROPELLANT
PROPELLANT ACTUATED DEVICES - THRUSTERS, CATAPULTS, INITIATORS, AND STRUCTURAL MATERIALS
PAD-94-1 N64-32597 23-04

HIGH TEMPERATURE RESEARCH
CONDUCTIVITY OF ROCKS AT HIGH TEMPERATURES
JPRS-21649 N64-10070 01-19

PHYSICAL PROPERTIES OF MATERIALS AT HIGH TEMPERATURES
JPRS-18497 N64-10455 01-13

MULTICHAMBER VACUUM CALORIMETER FOR MEASUREMENT OF HEMISPHERICAL EMITTANCE OF HIGH TEMPERATURE RADIATOR COATINGS N64-10957 02-15

INSTRUMENTATION FOR SIMULTANEOUS MEASUREMENT OF SPECTRAL AND NORMAL EMITTANCE OF MATERIALS IN AMBIENT AND VACUUM ENVIRONMENT AT HIGH TEMPERATURE
WADD-TR-60-102 N64-10958 02-15

THERMAL RADIATION PROPERTIES FOR SOLIDS & COATINGS AT HIGH TEMPERATURES N64-10963 02-23

TOTAL NORMAL EMITTANCE MEASUREMENT TECHNIQUE FOR OPAQUE SOLID MATERIALS OVER 1000- TO 3000-DEG F RANGE N64-10964 02-13

EMITTANCE MEASUREMENT FOR TEMPERATURES TO 3000-DEG F TO PROVIDE DATA ON THERMAL RADIATION OF CERAMICS FOR REENTRY VEHICLE USE
ASD-TR-61-706, VOL. 2 N64-10965 02-13

EMITTANCE MEASURING APPARATUS FOR TEMPERATURES UP TO 4000-DEG F N64-10966 02-13

EMITTANCE MEASUREMENT FOR REFRACTORY MATERIALS TO 5000 DEG F - TEMPERATURE & STRUCTURE DEPENDENCE N64-10968 02-13

ENTHALPY OF MOLYBDENUM AT TEMPERATURES OF 700- TO 2337-DEG C N64-11017 02-18

COMBUSTION DRIVEN SHOCK TUBE INVESTIGATION OF TOTAL RADIANCE OF AIR AT HIGH TEMPERATURES
LMSC-6-90-63-97 N64-11240 02-02

DEVELOPMENT OF REFRACTORY METAL-BASE ALLOYS FOR HIGH-TEMPERATURE REACTOR APPLICATIONS
NMI-1258 N64-11287 02-18

BIBLIOGRAPHY - REFRACTORY INORGANIC COATINGS FOR TEMPERATURES OVER 2500-DEG C
NASA-TM-X-51209 N64-11338 02-33

DESIGN CRITERIA FOR GRADE CFZ GRAPHITE AND PREPARATION FOR THERMOPHYSICAL PROPERTY DETERMINATION AT HIGH TEMPERATURES
AD-523744 N64-11929 03-19

PROBE-TYPE CAPACITANCE TEMPERATURE SENSOR FOR HIGH TEMPERATURE USE
GEMP-80 N64-11948 03-15

THERMODYNAMIC & TRANSPORT PROPERTIES OF GASES AT HIGH TEMPERATURES AND PRESSURES - SQUID PROJECT N64-13480 05-24

MASS SPECTROMETRY OF HIGH TEMPERATURE SYSTEMS AND ION SOURCES
SSD-TDR-63-349 N64-15687 07-07

HIGH TEMPERATURE TEST OF CHROMIUM-TITANIUM COATED COLUMBIUM ALLOY BOLT AND NUT
A474 N64-16787 08-18

HIGH TEMPERATURE CHEMISTRY AND PHYSICS OF MATERIALS IN SOLID STATE N64-17265 09-25

THERMAL DECOMPOSITION PRESSURE OF BORON PHOSPHIDE USING HYDROGEN AS CARRYING GAS N64-17345 09-07

HIGH TEMPERATURE AND HIGH EMITTANCE COATINGS
NASA-CR-53234 N64-17588 09-19

COMPRESSIVE CRIPPLING TESTS OF CLOSE COLUMN MEMBERS OF RENE 41, INCONEL X, AND TITANIUM ALLOY AT ROOM AND ELEVATED TEMPERATURES
SM-44540 N64-17668 09-33

HIGH TEMPERATURE THERMODYNAMICS AND THERMOPHYSICS
JPRS-24143 N64-18295 10-13

BIBLIOGRAPHY ON HIGH TEMPERATURE CHEMISTRY AND PHYSICS OF MATERIALS IN CONDENSED STATE
N64-19810 12-07

COMBINING INDUCTION HEATERS WITH EXISTING ENVIRONMENTAL TEST FACILITIES FOR CONDUCTING TESTS AT REENTRY TEMPERATURES N64-20255 13-10

PROPANE FURNACE AS HEAT SOURCE IN HIGH TEMPERATURE VIBRATION TESTING N64-20257 13-10

HIGH PRESSURE, HIGH TEMPERATURE METALLURGY
ASD-TDR-63-90, VOL. II N64-22266 15-18

HIGH TEMPERATURE REACTIONS IN REFRACTORY MATERIALS
N64-25415 17-18

HYPERTHERMAL RESEARCH FACILITY N64-25427 17-10

HIGH TEMPERATURE PHENOMENA IN HYPERSONIC FLOWS
AEDC-TDR-64-143 N64-25794 17-13

SOURCE OF PROTONS WITH THERMAL DISSOCIATION OF HYDROGEN MOLECULE
FTD-TT-64-522/1&2 N64-26162 18-23

BIBLIOGRAPHY ON HIGH TEMPERATURE CHEMISTRY AND PHYSICS OF MATERIALS IN CONDENSED STATE
N64-26900 18-07

BIBLIOGRAPHY OF GAS AND CONDENSED PHASE REACTIONS OF HIGH TEMPERATURE CHEMISTRY AND PHYSICS
N64-28694 20-07

BEHAVIOR OF GERMANIUM OXIDE, SILICON OXIDE, AND THEIR MIXTURES AT HIGH TEMPERATURES AND VERY HIGH PRESSURES
TR-8 N64-29021 21-25

DIELECTRIC MATERIALS FOR HIGH TEMPERATURE EVALUATION
RMD-5038-F N64-29525 21-07

HIGH TEMPERATURE LIQUID METAL TECHNOLOGY
BNL-801/PR-2/ N64-29749 21-18

HIGH TEMPERATURE LABORATORY FOR CREEP TESTING AND STRAIN MEASURING AND RECORDING
AD-602230 N64-32067 23-10

ELECTRIC DEFLECTION AND MASS SPECTROMETRIC STUDY OF HIGH TEMPERATURE THERMODYNAMICS OF LIGHT METAL COMPOUNDS
C-64362 N64-32809 24-13

OXIDIZING, NEUTRAL, REDUCING, OR EVACUATED ATMOSPHERIC ENVIRONMENT CHARACTERISTICS OF HIGH TEMPERATURE X-RAY DIFFRACTOMETER FOR RESEARCH STUDIES
ARL-64-82 N64-33021 24-15

KRYPTONATED METALS FOR STUDY OF HIGH TEMPERATURE OXIDATION KINETICS OF REFRACTORY METALS
AD-450355 N64-33972 24-18

HIGH VACUUM
ELECTROMAGNETIC WAVE SCATTERING AND SUPER-HIGH VACUUM FROM SEMICONDUCTORS
JPRS-17532 N64-11001 02-01

TITANIUM OXIDES PULVERIZATION AND CONDENSATION BY ELECTRON BOMBARDMENT TO OBTAIN SUPER-HIGH VACUUM
N64-11003 02-23

APPARATUS FOR TESTING FATIGUE OF MACHINED METALLIC SPECIMENS IN HIGH VACUUM SIMULATING SPACE
EM-13-11 N64-12901 04-15

RELIABILITY OF FLANGE CLOSURE AS FUNCTION OF FLANGE AND GASKET DESIGN FOR OPTIMUM PERFORMANCE IN HIGH VACUUM REGION
ORNL-3509 N64-17501 09-17

HIGH VACUUM LUBRICATION OF SOLID CARBON MATERIALS
NASA-RP-146 N64-17565 09-17

OXYGEN DETECTOR WHICH OPERATES BY CHEMISORPTION AND DESORPTION FROM TUNGSTEN FILAMENT IN HIGH VACUUM N64-19500 12-07

ANNOTATED BIBLIOGRAPHY ON HIGH VACUUM LIQUID METAL DISTILLATION
IS-799 N64-26029 18-18

EMISSIVITY OF COATINGS SUBJECTED TO HIGH VACUUM AND HIGH TEMPERATURE ENVIRONMENTS
NASA-CR-58054 N64-26808 18-25

CONTAMINATION OF REFRACTORY METALS AND ALLOYS BY RESIDUAL GASES IN HIGH VACUUM SYSTEMS
ORNL-3674 N64-28983 20-18

PROPULSION ENGINE TEST CELL AS COMBINATION EJECTOR - DIFFUSER AND HIGH VACUUM CHAMBER FOR PROPULSION TESTING
AEDC-TDR-64-138 N64-31137 22-10

CESIUM VAPOR-FILLED THERMIONIC CONVERTERS FOR HIGH VACUUM WORK FUNCTION EMITTER MATERIALS
MND-3100 N64-31198 22-06

HIGH VOLTAGE
LITERATURE SURVEY & BIBLIOGRAPHY OF HIGH VOLTAGE BREAKDOWN IN VACUUM AND IN OIL - APPLICATION TO HIGH POWER VACUUM TUBES
BMI-197-12-1 N64-13602 05-19

HIGH VOLTAGE PULSE MODE OF PENNING ION SOURCE
FTD-MT-63-65/1&2 N64-18675 11-23

HIGH POWER, HIGH VOLTAGE, AUDIOFREQUENCY TRANSFORMER DESIGNING
QR-6 N64-18885 11-09

GLASSES FOR HIGH VOLTAGE INSULATORS
FTD-TT-63-256/1&2&4 N64-19183 11-19

COMPACT HIGH-VOLTAGE SILICON RECTIFIER STACKS - PRODUCTION ENGINEERING
QPR-8 N64-31182 22-09

HIGH CURRENT AND HIGH VOLTAGE SILICON CONTROLLED RECTIFIERS
QPR-5 N64-31226 22-09

HIGH VOLUME ELECTROSTATIC SAMPLER /HIVES/
S VOLUME

HILBERT SPACE
DIRECT SUM DECOMPOSITIONS OF HESTENES ALGEBRAS OF MATRICES & HILBERT SPACES
ONR-RM-82 N64-12327 03-20

FRACTIONAL POWERS & SEMIGROUPS OF OPERATORS FOR EXISTENCE THEOREMS OF THREE-DIMENSIONAL FLOWS IN HILBERT SPACE - NAVIER-STOKES EQUATION
TR-121 N64-13082 04-20

INEQUALITIES COMPLEMENTARY TO SCHWARZ INEQUALITY IN HILBERT SPACE - MATHEMATICS
NOLTR-64-26 N64-18583 11-20

OPERATOR-VALUED FUNCTIONS IN HILBERT SPACE
MRC-458 N64-22599 15-20

QUADRATIC EQUATIONS IN BOUNDED LINEAR OPERATORS IN HILBERT SPACE
CIT-ORD-16-TR-9 N64-30540 22-20

HILL EQUATION
S DIFFERENTIAL EQUATION

HILL METHOD
MODIFICATION OF HILL METHOD OF GENERAL PLANETARY PERTURBATIONS
NASA-TN-D-2375 N64-24823 17-29

HISTAMINE
EFFECT OF HISTAMINE AND CYSTEINE ON NITROGEN EXCRETION FROM LIVER OF IRRADIATED FROG
NIJS-R-423 N64-21049 14-14

EFFECT OF HIGH FREQUENCY ELECTROMAGNETIC RADIATION ON BLOOD HISTAMINE CONTENT AND CHOLINESTERASE ACTIVITY IN HUMAN BODY N64-31540 23-16

HISTOLOGY
NERVE-REFLEX PROCESSES AND HOMEOSTATIC MECHANISMS IN PERMEABILITY CHANGES OF HISTOHEMATIC BARRIERS IN RADIATION SICKNESS
JPRS-21492 N64-10066 01-16

EFFECT OF GAMMA RADIATION ON HISTOLOGICAL AND HISTOCHEMICAL STRUCTURES OF RAT SEX GLANDS
JPRS-22017 N64-10664 01-16

MORPHOLOGICAL & HISTOLOGICAL INVESTIGATION OF VESTIBULAR APPARATUS OF ANIMALS IN CHANGING GRAVITATIONAL FIELD N64-11862 03-16

ENZYME HISTOCHEMISTRY OF NERVOUS SYSTEM N64-14608 06-16

HISTOLOGICAL STUDIES ON INNER EARS OF SQUIRREL MONKEYS
NASA-CR-55517 N64-16328 08-16

HISTOCHEMICAL AND ELECTRON MICROSCOPIC STUDIES OF GRAVITY RECEPTOR CELLS OF UTRICLE OF GUINEA PIGS SUBJECTED TO RADIAL ACCELERATION
JPRS-23837 N64-18084 10-16

HISTOLOGICAL STUDY OF CHIMPANZEE MIDDLE AND INNER EAR
ARL-TDR-64-1 N64-18650 11-16

HISTOPHYSIOLOGICAL CHANGES IN TISSUES AND INTERNAL ORGANS OF EXPERIMENTAL ANIMALS UNDER G-FORCES N64-23764 16-16

HISTORY
HISTORY OF SCIENCE AND TECHNOLOGY - AIRCRAFT, ROCKETS, AND SPACE FLIGHT
NASA-TM-X-51269 N64-11896 03-01

MACHINE RECORD CARDS FOR RECORDING MEDICAL HISTORY - DEVELOPMENT & USE IN ASTRONAUT SELECTION N64-13466 05-16

HYPERVELOCITY IMPACT - HISTORY OF EXPERIMENTATION N64-13544 05-01

EARTH MEASUREMENT - HISTORY, TRIANGULATION, LEVEL GAUGE, ASTRONOMIC-GEODETIC SURVEYING, DETERMINING GEOID, AND GRAVIMETRY N64-16201 08-12

HISTORY OF MARSHALL SPACE FLIGHT CENTER - DOCUMENTATION
NASA-TM-X-51524 N64-17797 09-01

HISTORY OF ATTEMPTS AT LUNAR EXPLORATION AND POSSIBILITY OF SOFT LANDING ON MOON
JPRS-24009 N64-18319 10-29

HISTORY OF THEORIES ON ORIGIN OF SOLAR SYSTEM - ANGULAR MOMENTUM & EDDY DIFFUSION IN HYPOTHETICAL MODEL SOLAR NEBULA
AFCRL-64-167 N64-20391 13-29

HISTORICAL REVIEW OF SPACE EXPLORATION & GROWTH OF NASA N64-24956 17-29

HISTORY OF BIODYNAMICS
ARL-TDR-63-10 N64-25331 17-16

HISTORY OF ROCKET ENGINE DEVELOPMENT IN U.S.S.R. FROM 1932 TO 1942
FTD-TT-63-612/1&2 N64-29026 21-27

DYNAMIC MODELING - HISTORY AND PROJECTED FUTURE USES N64-29252 21-33

HISTORICAL BACKGROUND OF MAGNITUDE SCALES FOR INVESTIGATION OF EARTHQUAKES - SEISMOLOGICAL PHENOMENA N64-30379 22-13

HISTORY, FACILITIES, & RESEARCH PROJECTS OF ORGANIZATION FOR STUDY OF AERODYNAMICS, MATERIALS SCIENCE, FLIGHT MECHANICS, STRUCTURES, COMBUSTION, PROPULSION, AND MATHEMATICS N64-30477 22-10

HODGKINSONITE
SINGLE CRYSTAL X-RAY DIFFRACTION PATTERN FOR HODGKINSONITE MINERAL
SC-4964/RR/ N64-10427 01-12

HODOGRAPH
ACCELERATION HODOGRAPH USED TO OBTAIN TRANSFORMED EQUATIONS OF MOTION FOR SPACE VEHICLES UNDER GRAVITATIONAL ATTRACTION
NASA-CR-52873 N64-11262 02-29

HOHMANN ORBITAL TRANSFER
CF EULER-LAMBERT EQUATION
HOHMANN TRANSFERS FOR MULTIPLE IN-PLANE ORBITAL RENDEZVOUS
SSD-TDR-63-179 N64-15120 07-29

SOLUTION TO EULER-LAMBERT EQUATION FOR FLIGHT ORBITS CLOSE TO HOHMANN ORBITS N64-21628 15-29

HOLDER
CF FASTENER
FIXTURE HOLDER FOR LATHE OR JIG BORE N64-33615 24-17

HOLMIUM
BIBLIOGRAPHY ON HOLMIUM
UCRL-7919 N64-29655 21-25

HOMING
S GUIDANCE
S MISSILE CONTROL
S NAVIGATION AND GUIDANCE

HOMING DEVICE
CF GUIDANCE SYSTEM
AUTOMATIC HOMING AND COMBINED ROCKET GUIDANCE SYSTEMS
FTD-TT-64-84/1&2&3&4 N64-22157 15-22

HOMING SYSTEMS FOR GUIDED MISSILES N64-24598 17-22

TARGET SEEKERS & HOMING DEVICES FOR GUIDED MISSILES N64-24599 17-22

TRACKING TARGET SEEKERS & HOMING DEVICE N64-24600 17-22

RADIANT ENERGY DETECTORS FOR HOMING DEVICES N64-24601 17-15

OPTICAL SYSTEMS OF TARGET SEEKERS & HOMING DEVICES N64-24602 17-15

MAGNITUDE OF ENERGY RADIATED FROM TARGETS AND DETECTED BY HOMING DEVICES IN GUIDED MISSILES N64-24603 17-22

INFRARED HOMING DEVICES N64-24604 17-22

TERMINAL GUIDANCE SYSTEMS WITH RADAR AND HEAT HOMING DEVICES - OPTICAL, INFRARED, INERTIAL, AND CELESTIAL SYSTEM DESIGNS
SB-63-34 N64-24883 17-22

HOMING DEVICE WITH INTEGRATED DIPOLE ANTENNA AND RADOME CIRCUITRY - DIRECTION FINDER
REPT.-1566-12 N64-33645 24-08

HOMING DEVICES - GUIDANCE PRINCIPLES, SYSTEMS, AND METHODS
FTD-MT-64-198 N64-33935 24-22

HOMOGENEITY
PHOTOVOLTAIC EFFECT STUDY OF HOMOGENEITY OF GERMANIUM
E-T-P-63-1 N64-11936 03-25

BENDING MAGNET WITH NONSATURATING SHIMMING TO

PROVIDE A HOMOGENEOUS MAGNETIC FIELD
SLAC-19 N64-13364 04-23

HOMOGENEITY OF LARGE APERTURE PARALLEL GLASS PLATES N64-15301 07-23

HOMOGENIZATION OF GALLIUM-STABILIZED DELTA PHASE PLUTONIUM
LA-2989 N64-17237 09-18

COMPARISON BETWEEN CODES FOR CALCULATION OF THERMAL SPECTRA IN HOMOGENEOUS MEDIA
EUR-1605.E N64-20869 14-13

BOGOLIUBOV THEORY OF IRREVERSIBLE PROCESSES IN CLASSICAL GASES AND HOMOGENEOUS SYSTEMS
AD-429541 N64-25087 17-07

CYLINDRICAL INHOMOGENEITY IN RECTANGULAR WAVEGUIDE N64-31356 23-09

HOMOGENEITY OF CADMIUM SELENIDE-CADMIUM SULFIDE SOLID SOLUTIONS BY X-RAY FLUORESCENCE
GNE/PHYS/64-6 N64-33759 24-25

HOMOLOGY
EQUIVALENCE OF CERTAIN HOMOLOGICAL DETERMINATIONS IN TOPOLOGY
FTD-MT-63-348 N64-33519 24-20

HONEYCOMB
INSTRUMENT FOR MEASURING THERMAL CONDUCTANCE OF HONEYCOMB STRUCTURAL MATERIALS AT HIGH TEMPERATURE
ASD-TDR-63-359 N64-12869 04-13

METAL-TO-METAL BONDING AND BONDING OF COVER PLATES ON HONEYCOMB PLATES TESTED WITH SUPERSONIC-IMPULSE-ECHO APPARATUS
DFL-217 N64-15023 07-17

PRESTRESSED CELLULAR CERAMICS - STRENGTH, UNIAXIAL AND BIAXIAL PRESTRESSING EFFECTS, LOAD DEFLECTION OF SLAB AND DOME FABRICATION
NASA-CR-55661 N64-15539 07-19

EFFECT OF EXPOSURE TO WEATHERING UNDER SEASHORE CONDITIONS ON STRENGTH AND SERVICE LIFE OF BRAZED STAINLESS STEEL HONEYCOMB SANDWICH PANELS
FGT-2948 N64-15574 07-34

RELATIVE STRENGTH OF DOUBLE REVERSED CORRUGATED ALUMINUM CORES AND ALUMINUM HONEYCOMBS
ERR-FW-197 N64-16629 08-33

BRAZING ALLOYS FOR FABRICATION OF NICKEL-BASED HONEYCOMB SANDWICH PANELS
A469 N64-17131 09-18

ALUMINUM HONEYCOMB ENERGY ABSORPTION PROPERTIES
A483 N64-17141 09-19

LARGE AREA SOLAR CELLS FROM SILICON SHEETS USING ALUMINUM HONEYCOMB SUBSTRATE N64-17378 09-06

THERMAL STRESS, AND DESIGN ANALYSIS OF S-1C HEAT SHIELD PANELS USING BRAZED STAINLESS STEEL HONEYCOMB SANDWICH CONSTRUCTION
NASA-CR-53315 N64-17765 09-13

MANUFACTURING METHODS AND DESIGN PROCEDURES OF BRAZED REFRACTORY METAL HONEYCOMB SANDWICH PANELS
ASD-TDR-63-767 N64-20361 13-07

PHOTOGRAPHIC EVALUATION OF BRAZED METALLURGICAL HONEYCOMB SANDWICH PANEL JOINTS
A729 N64-22575 15-18

EXPANDABLE SELF-RIGIDIZING HONEYCOMB STRUCTURES N64-23708 16-33

HYDROSTATIC PRESSURE CYLINDER - ALUMINUM HONEYCOMB CASE
AD-439657 N64-24573 17-33

THREE-LAYER AXISYMMETRIC HONEYCOMB AND CORRUGATED SHELLS N64-24633 17-34

CHEMICAL MILLING PROCESS FOR ALUMINUM HONEYCOMB ASSEMBLIES
ADR-08-17-64.1 N64-25920 18-17

MECHANICAL PROPERTIES OF PLASTIC FOAMS AND HONEYCOMBS FOR USE AS BACKUP CONFIGURATIONS FOR CENTAUR INTERMEDIATE BULKHEAD
MRG-312 N64-27212 19-19

DROP TESTING OF LIGHTWEIGHT ALUMINUM HONEYCOMB CASE
PR-4 N64-30050 21-34

EVALUATION OF ELECTRICALLY CURED STRUCTURAL ADHESIVES FOR METAL-TO-METAL BONDING AND HONEYCOMB SANDWICH CONSTRUCTION
NA64H-377-1 N64-32221 23-19

QUALIFICATION TESTS ON ELECTRICALLY CURED STRUCTURAL ADHESIVES FOR METAL-TO-METAL BONDING AND HONEYCOMB SANDWICH PANELS
NA64H-377-2 N64-32513 23-19

INTERCELLULAR FLUID MOBILITY WITHIN HONEYCOMB REINFORCED COMMON BULKHEAD FOR SATURN S- IV LAUNCH VEHICLE - BULKHEAD PURGING
NASA-TM-X-53094 N64-33185 24-11

EFFECTS OF SCREENS AND HONEYCOMB ON SKIN FRICTION VARIATIONS IN LOW SPEED WIND TUNNELS
TN-64-7 N64-33734 24-10

METAL HONEYCOMB ELEMENTS USED AS AXIAL ENERGY ABSORBERS - GEOMETRY, UNIT WEIGHT, MATERIAL THICKNESS & DENSITY
NASA-CR-59371 N64-33903 24-34

EXPLOSIVE FORMING & WELDING OF HONEYCOMB SANDWICH PLATE
NASA-CR-59395 N64-33922 24-17

HORIZON
OPTICAL, MECHANICAL, & ELECTRONIC PARAMETERS OF LUNAR AND PLANETARY HORIZON SENSOR SCANNING DEVICES
NASA-CR-55106 N64-12397 03-15

EFFECT OF BODY POSITION, VISUAL REFERENCE CUES, AND TIME UPON JUDGEMENT OF VISUAL HORIZON
NASA-CR-55618 N64-15351 07-16

ATTEMPT TO COLLECT INFRARED HORIZON DATA BY BALLOON
AFCRL-64-210 N64-17862 10-12

HORIZON SENSING FOR SPACECRAFT ATTITUDE DETERMINATION
NASA-TM-X-956 N64-23902 16-15

THEORETICAL ANALYSIS OF UTILIZING OXYGEN HORIZON FOR VERTICAL SENSING
AFCRL-64-141 N64-25598 17-30

INFRARED HORIZON OF EARTH AND EFFECT ON DESIGN OF HORIZON SENSORS FOR SPACECRAFT
NASA-TM-X-51732 N64-27275 19-12

HORIZON SENSING FOR ATTITUDE DETERMINATION
NASA-TM-X-51826 N64-27316 19-22

SOUNDING ROCKET DATA ON INFRARED SPECTRAL RADIANCE OF NIGHT HORIZON AND SKY
NAVWEPS-8552 N64-33724 24-12

DETECTION OF LUNAR HORIZON FROM SPACECRAFT - THERMOPILE TEST PROGRAM
NASA-CR-58762 N64-33807 24-29

HORMONE
SA ADRENOCORTICOTROPIN
SA INSULIN
EFFECT OF SEX HORMONES ON ACUTE RADIATION SICKNESS IN RATS AND MICE
JPRS-22000 N64-10392 01-16

MEDICAL USE OF HORMONES FOR OVEREXPOSURE TO IONIZING RADIATIONS

JPRS-19066 N64-11063 02-16

FLIGHT MEDICINE - VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN, HYPOXIA & METABOLISM, FAT EMBOLISM DURING DECOMPRESSION
DVL-273 N64-12751 04-16

VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN FOLLOWING STRESS ADAPTATION - EOSINOPHILE COUNT IN BLOOD & ADRENO-CORTICAL HORMONE LEVEL IN PLASMA
N64-12753 04-16

PROTECTIVE AND THERAPEUTIC EFFECT OF SOMATOTROPIC HORMONE IN RADIATION SICKNESS N64-12769 04-16

PATHOLOGICAL STUDIES ON STEROID SEX HORMONES, RADIATION EFFECT ON METABOLISM, LEUKEMIA, PARATHYROID, AND HYPOTHYROIDISM
ARCH-20 N64-15398 07-16

EFFECT OF STRONG STRESS AND HIGH DOSES OF ADRENOCORTICOTROPIN HORMONE ON MORPHOPHYSIOLOGICAL REORGANIZATION OF RAT ADRENAL GLAND
N64-31345 23-16

DYNAMICS OF PHYSICAL AND CHEMICAL SYSTEMS IN MAMMALS - THERMOREGULATION, CARDIOVASCULAR SYSTEMS, HORMONES, AND BEHAVIOR
NASA-CR-129 N64-32833 24-16

VITAMIN AND HORMONE EFFECTS ON HEMORRHAGIC DISEASE IN RATS CAUSED BY IRRADIATED FOOD
PR-14 N64-33993 24-16

HORN ANTENNA
MECHANICAL DESIGN OF HORN-REFLECTOR ANTENNA AND RADOME N64-10883 02-08

CONICAL HORN-REFLECTOR ANTENNA FOR SATELLITE COMMUNICATIONS GROUND STATION N64-10884 02-08

SERVOMECHANISM FOR POINTING HORN-REFLECTOR ANTENNA
N64-10887 02-08

AUTOTRACK SYSTEM FOR HORN-REFLECTOR ANTENNA - ERROR CORRECTING DEVICE N64-10888 02-08

PRECISION TRACKER FOR DIRECTING HORN-REFLECTOR ANTENNA, LOCATING SATELLITE, AND TO PROVIDE DATA FOR ORBIT PARAMETER PREDICTION N64-10889 02-08

MICROWAVE HORN ANTENNA CHARACTERISTICS IN PRESENCE OF PLASMA SHEATH GENERATED IN HELIUM
AFCRL-63-541 N64-14368 06-09

MEANS OF CONTROLLING UNDESIRED RADIATION FOR HORN, PARABOLIC REFLECTOR, AND LUNEBERG LENS ANTENNAS FOR REDUCING RADIO FREQUENCY INTERFERENCE
RADC-TDR-63-549 N64-21071 14-09

AIR SHOCK LOADING OF INVERTED HORN REFLECTOR-TYPE ANTENNA MODEL
BRL-1515 N64-30476 22-08

HOT GAS
TEMPERATURE MEASUREMENT OF EQUILIBRIUM, NONRADIANT HOT GAS STREAMS
NASA-RP-75 N64-10523 01-13

DISPERSAL OF SOUND WAVES BY RADIATIVE HEAT TRANSFER IN HOT GAS
CAL-AF-1285-A-11 N64-19409 12-23

HYDROGEN, HELIUM, AMMONIA, AND ARGON GAS FLOW THROUGH ELECTRIC ARC HOT GAS CONTAINMENT LIMITS
ARL-64-49 N64-22306 15-24

RADIATIVE TRANSPORT FROM HOT GASES SIMULATING MARS-VENUS ATMOSPHERIC COMPOSITION
NASA-RP-174 N64-22413 15-13

HOT GAS JET REACTION VALVE USING BOUNDARY LAYER CONTROL TECHNIQUE OF HIGH PRESSURE & TEMPERATURE GAS STREAM N64-23829 16-33

HIGH FREQUENCY CONDUCTIVITY TENSOR OF HOT, DILUTE, ELECTRON GAS NEAR EQUILIBRIUM
RM-4109-PR N64-25985 18-24

ASTROPHYSICS AND QUANTITATIVE COMBUSTION SPECTROSCOPY WITH REFERENCE TO RADIATIVE PROPERTIES OF HOT GASES N64-26339 18-26

HEAT TRANSFER CHARACTERISTICS OF HOT GAS IGNITION
RM-1063/362 N64-30202 21-18

SULFUR EFFECT ON HOT GAS CORROSION OF SUPERALLOYS IN MARINE ENVIRONMENT
REPT.-3824-64R N64-31631 23-18

ROCKET NOZZLE AND HOT GAS DUCT MATERIAL TESTING
U-2577 N64-32511 23-17

HOT GAS SYSTEM
LINEAR PROPORTIONAL CONTROL HOT GAS VALVE FOR LIQUID ROCKET CHAMBER BLEED SYSTEM
TR-3137 N64-21678 15-17

HOT SPOT
TWO-DIMENSIONAL HYDRODYNAMIC HOT SPOT FORMED BY SHOCK WAVE INTERACTION WITH SPHERICAL VOID IN NITROMETHANE
LA-3077 N64-23890 16-11

HOT-WIRE
TURBULENT GAS FLOW IN PISTON ENGINES - HOT-WIRE ANEMOMETER MEASUREMENTS N64-13416 05-26

FLAME REACTOR PRODUCTION OF DEUTERIUM FLUORIDE BY HOT NICKEL WIRE IGNITION OF PURE GASES
K-1585 N64-14713 06-07

MATHEMATICAL HEAT TRANSFER MODEL FOR DETERMINING SENSITIVITY OF HOT WIRE INITIATOR TO INPUT CURRENT
NWL-1919 N64-29877 21-13

EDDY-SHEDDING HOT-WIRE ANEMOMETER FOR MEASUREMENT OF LOW WIND SPEEDS
ERDA-185 N64-32038 23-15

HOT-WIRE MEASUREMENT
HOT-WIRE STILLWELL LIQUID LEVEL SENSOR SYSTEM FOR USE WITH CRYOGENIC FLUIDS
NASA-TN-D-2074 N64-10466 01-15

HOVERING
IMPROVEMENT OF VTOL AIRCRAFT CONTROL FOR HOVERING FLIGHT
EWR-89-63 N64-10900 02-04

MATHEMATICAL MODEL FOR UNDERSTANDING DYNAMIC STABILITY OF HELICOPTERS IN HOVERING
MP-220 N64-12918 04-04

AUTOMATIC CONTROL OF VTOL AIRCRAFT IN HOVERING FLIGHT N64-13925 05-04

HOVERING FLIGHT CONTROL REQUIREMENTS FOR VTOL AIRCRAFT
AGARD-472 N64-19855 12-04

MATHEMATICAL MODEL TO STUDY DYNAMIC STABILITY OF HELICOPTERS IN HOVERING
AGARD-470 N64-19891 12-04

DISTURBANCE AND SPRAY CAUSED BY VTOL AIRCRAFT HOVERING ABOVE WATER
REPT.-012-26 N64-22907 16-04

MOVING COCKPIT PILOTED SIMULATOR TEST OF VTOL AIRCRAFT ALTITUDE CONTROL REQUIREMENTS DURING HOVER
NASA-TN-D-2451 N64-28059 20-11

AERODYNAMIC CHARACTERISTICS OF SELF-PROPELLED MODEL OF AIR CUSHION VEHICLE IN HOVERING FLIGHT - GROUND EFFECT TAKEOFF AND LANDING /GETOL/ MODEL
UTIASTN-74 N64-33650 24-03

ESTIMATING ROTARY WING AERODYNAMIC CHARACTERISTICS AT HOVER AND HIGH FORWARD SPEEDS
NASA-CR-114 N64-34014 24-03

HUB
INFLUENCE OF WIDE HUB ON ROOM TEMPERATURE BURST-STRENGTH OF MODEL STEAM TURBINE ROTORS
ARC-CP-661 N64-13910 05-17

WRINKLING OF STRETCHED MEMBRANE SUBJECTED TO TORQUE LOADING THROUGH ATTACHED HUB
NASA-TN-D-2456 N64-28336 20-33

HUB-TIP RATIO
BLADE ELEMENT PERFORMANCE OF 0.7 HUB-TIP RADIUS RATIO AXIAL-FLOW-PUMP ROTOR
NASA-TN-D-2481 N64-28415 20-11

HUGONIOT EQUATION OF STATE
S ELASTICITY
S LOADING
S LOW PRESSURE
S PLASTICITY
S STATE EQUATION
S YIELD POINT

HUMAN
HUMAN BIOCHEMICAL GENETICS
JPRS-26577 N64-32163 23-16

HUMAN BEHAVIOR
SA PERSONALITY
BIOCHEMICAL ANALYSIS OF PSYCHOLOGICAL EFFECT ON BRAIN ACTIVITY - HUMAN BEHAVIOR
JPRS-18315 N64-10756 02-16

NERVOUS SYSTEM DATA - ANALYSIS OF HUMAN BEHAVIOR DURING SPACEFLIGHT N64-10757 02-16

HUMAN REACTIONS IN SIMULATED SPACE ENVIRONMENT
JPRS-19953 N64-11131 02-14

INFORMATION THEORY & HUMAN BEHAVIOR - LINEAR RELATIONSHIP BETWEEN REACTION TIME AND UNCERTAINTY IN INFORMATION PROCESSING TASKS
AMRL-TDR-63-89 N64-11439 03-16

BEHAVIORAL TESTING IN SIMULATED SPACE CABIN DURING SEVEN-DAY CONFINEMENT - DATA PROCESSING
NASA-TN-D-1973 N64-11548 03-14

BEHAVIORAL TESTING DURING 7-DAY CONFINEMENT IN SIMULATED SPACE CAPSULE - PATTERN RECOGNITION TASK
NASA-TN-D-1974 N64-11549 03-14

GAMES SIMULATING SIMPLE COLLECTIVE BEHAVIOR WITH PAYOFF FUNCTION DETERMINED BY NEIGHBOR PLAYERS STRATEGIES
JPRS-22519 N64-12066 03-20

COMPARISON OF SYMPTOMATOLOGY IN HEALTHY PERSONS AND SUBJECTS WITH LOSS OF LABYRINTHINE FUNCTION WHEN EXPOSED TO UNUSUAL CENTRIPETAL FORCES
NASA-CR-55621 N64-15347 07-14

ACCELERATION STRESS ON HUMAN PSYCHOPHYSIOLOGICAL BEHAVIOR
NADC-MA-6305 N64-15753 07-14

TERM EXPECTATION AND UNCERTAINTY IN HUMAN DECISION BEHAVIOR
AMRL-TDR-63-118 N64-16799 08-14

SELECTION OF SPACE CREWS FOR EXTENDED JOURNEYS - APPLICATION OF PSYCHOLOGICAL CRITERIA
JPRS-23853 N64-17536 09-14

HUMAN BEHAVIOR - NONLINEAR OSCILLATIONS AND ELECTROENCEPHALOGRAPHY
AFCRL-63-364 N64-18581 11-14

PREDICTION OF PERFORMANCE OF AIR FORCE PERSONNEL REFERRED FOR PSYCHIATRIC EVALUATION
PRL-TDR-63-23 N64-18785 11-14

HUMAN BEHAVIOR - DISCRIMINATION OF PRIMARY AND SECONDARY VISUAL VIGILANCE TASKS
AD-437334 N64-20318 13-14

STRESS AND FATIGUE IN HUMAN BEHAVIOR DURING ISOLATION FROM EXTERNAL STIMULI
JPRS-24961 N64-21288 14-16

HUMAN ADAPTATION TO CHANGING ENVIRONMENTAL FACTORS DURING SPACE FLIGHT
JPRS-20673 N64-22258 15-14

HUMAN BEHAVIOR IN FUNGUS EATER GAMES
ESD-TDR-64-237 N64-22267 15-14

EMPIRICAL STUDY OF HUMAN BELIEFS
ESD-TDR-64-238 N64-22567 15-14

ASTRONAUT BEHAVIOR ABOARD SATELLITE - REACTION TO WEIGHTLESSNESS, ACCELERATION, AND RADIATION HAZARD
N64-23638 16-16

HUMAN BEHAVIOR N64-24342 17-16

HUMAN PERCEPTION OF ENVIRONMENTAL SPACE-TIME RELATIONSHIPS N64-25078 17-16

HUMAN BEHAVIOR - VISUAL PERCEPTION OF MOTION
FPRC/MEMO-191 N64-25842 18-16

HUMAN BEHAVIOR - RELATION OF CONSISTENCY AND STRENGTH OF LATERAL PREFERENCE IN ONE-HAND TASKS TO AIRCRAFT PILOT PERFORMANCE
FPRC/MEMO-203 N64-26000 18-14

HUMAN BEHAVIOR - EVOLUTION OF PERCEPTUAL REFERENCE SYSTEMS
AD-600319 N64-27094 19-14

PSYCHOPHYSICAL JUDGEMENTS REFLECTING FORMATION OF INTERNAL NORM FROM FOCAL STIMULUS, RESIDUAL STIMULATION, & BACKGROUND - ADAPTATION-LEVEL THEORY
TR-17 N64-27095 19-14

INFORMATION INPUT RATE EFFECT ON SHORT TERM HUMAN MEMORY
NAVTRADEVCEN-1303-2 N64-29871 21-14

HUMAN BEHAVIOR - PSYCHOLOGICAL RESEARCH ON DISPLAY VARIABLES
RADC-TDR-64-266 N64-31695 23-14

EFFECT OF SLEEP DEPRIVATION AND DEMANDING WORK-REST SCHEDULE ON CREW PERFORMANCE
AMRL-TDR-64-63 N64-31827 23-14

HUMAN BODY
SIX-CHANNEL ELECTROCARDIOGRAPH FOR RECORDING BIOPHYSICAL PARAMETER OF HUMAN SYSTEM
JPRS-18859 N64-10799 02-15

PERCEPTRON - MACHINE FOR LEARNING SIMILAR IN OPERATION TO HUMAN BRAIN N64-10827 02-20

ATMOSPHERIC POLLUTION DAMAGE - MATERIAL LOSSES, DIRECT & INDIRECT LOSSES, AND EFFECT OF POLLUTANTS ON HUMANS N64-11048 02-21

EFFECT OF IONIZING RADIATION ON WOUNDS - SURGERY TEXTBOOK
JPRS-19278 N64-11066 02-16

ELECTROCARDIOGRAPHIC FUNCTIONS IN CLINICAL MEDICINE OF HUMAN BODY ELECTRIC FIELDS
JPRS-19030 N64-11123 02-16

STRESS ON HUMAN BODY BY ACCELERATION AND WEIGHTLESSNESS
JPRS-20345 N64-11137 02-14

ACID STABILITY OF BLOOD ERYTHROCYTES IN HUMAN BODIES BY IONIZING RADIATION
JPRS-18938 N64-11317 02-16

BIOLOGICAL EFFECT OF COSMIC AND SOLAR RADIATIONS ON HUMAN BODY AT HIGH ALTITUDES N64-11700 03-16

GRAVITATIONAL EFFECT ON COORDINATION OF HUMAN BODY N64-11709 03-14

INDIVIDUAL BLOOD CONSTITUENTS & BLOOD SUBSTITUTES FOR TRANSFUSION
JPRS-22401 N64-11959 03-16

IONIZING RADIATION EFFECT ON DEVELOPMENT OF LEUKEMIA IN MAN
JPRS-22520 N64-12145 03-16

EXTREMELY HOT ENVIRONMENT EXPOSURE EFFECT ON THE TYMPANIC, ESOPHAGEAL, AND RECTAL TEMPERATURE OF

MAN
AMRL-TDR-63-85 N64-12215 03-16

THERMAL EXCHANGES OF HUMAN BODY IN EXTREME HEAT
AMRL-TDR-63-86 N64-12216 03-16

VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN FOLLOWING STRESS ADAPTATION - EOSINOPHILE COUNT IN BLOOD & ADRENO-CORTICAL HORMONE LEVEL IN PLASMA
N64-12753 04-16

HUMAN SKIN REACTION TO ACUTE LOCAL EXPOSURE TO RADIATION N64-12784 04-16

SECOND ANNUAL REPORT OF BRAIN RESEARCH INSTITUTE INCLUDING BIBLIOGRAPHY OF PUBLICATIONS
N64-12967 04-16

SMOKING AND HEALTH OF HUMANS N64-13017 04-16

ANIMAL AND HUMAN CALORIMETRY, HUMAN RESPONSES TO COLD SKIN AND TO HIGH CORTICAL TEMPERATURE, HUMAN THERMOREGULATOR
ASAE PAPER 62-422 N64-13149 04-16

ACOUSTIC PARAMETERS & ULTRASONIC VISUALIZATION OF ORGANS & TISSUES OF MAN & ANIMALS
JPRS-22840 N64-13350 04-16

ELECTROMYOGRAPHY OF HUMAN MUSCLE TONE IN NORMAL & PATHOLOGICAL STATES
JPRS-22782 N64-13376 04-16

FACTORS AFFECTING VISUAL & AUDITORY SYSTEMS IN MAN
JPRS-22735 N64-13582 04-16

EFFECT OF PHYSICAL STRAIN, HIGH TEMPERATURE, & HIGH OXYGEN CONTENT IN INSPIRED AIR ON EXCITABILITY OF VISUAL MECHANISM IN MAN
N64-13583 05-16

CLIMATIC EFFECT ON EXCITABILITY OF VISUAL & AUDITORY ORGANS IN MAN N64-13584 05-16

MICROORGANISMS IN HUMAN GINGIVAL TISSUES
SAM-TDR-63-88 N64-13865 05-16

DERMO-OPTICAL SENSE IN MAN
JPRS-23068 N64-14542 06-16

MATHEMATICAL MODEL OF HUMAN BODY FOR ASSESSMENT OF LOADS ON BODY DURING ACCELERATION
TECH. REPT.-115-2 N64-14779 06-16

ANALOG COMPUTER SIMULATION OF THERMOREGULATORY MECHANISMS OF HUMAN BODY
AMRL-TDR-63-116 N64-14966 06-16

PATTERNS OF HIGH- AND LOW-DENSITY ULTRACENTRIFUGAL LIPOPROTEIN DISTRIBUTION IN HEALTHY HUMAN POPULATION N64-15213 07-16

TEMPERATURE REACTION OF SKIN DURING LOW INTENSITY MICROWAVE IRRADIATION
JPRS-23287 N64-15335 07-16

EFFECTS OF SPACE ENVIRONMENT ON PLANTS & HUMANS
FTD-TT-62-1609/1 N64-16053 07-14

VERY HIGH FREQUENCY RADIOTELEMETRY IN SIMULATED ANIMAL INTERIOR ENVIRONMENT, AND TRANSPARENCY OF HUMAN BODY TO RADIO WAVES
SAM-TDR-63-80 N64-16642 08-16

FUNCTIONS OF CIRCULATORY, RESPIRATORY, & NERVOUS SYSTEMS IN HUMAN BODY
AMRL-TDR-63-105 N64-16807 08-16

EFFECTS OF CHRONIC EXPOSURE TO ORGANOPHOSPHATE INSECTICIDES ON CENTRAL NERVOUS SYSTEM OF HUMAN BODY
CARI-63-24 N64-17252 09-09

MEASUREMENT OF BLOOD PRESSURE IN HUMAN BODY
NASA-SP-5006 N64-17838 09-16

GAS EXCHANGE IN LUNGS OF MAN N64-17941 10-16

PERFUSION OF LUNGS OF HUMAN WITH ASTHMA
N64-17945 10-16

GAS TRANSPORT ACROSS SKIN IN MAN AND EFFECT OF AMBIENT TEMPERATURE ON TRANSFER RATE
N64-17949 10-16

DYNAMICS OF CHANGES IN CARBON DIOXIDE IN BODY AND BLOOD N64-17950 10-16

OXYGEN STORAGE IN HUMAN BODY N64-17951 10-16

PHYSIOLOGICAL MECHANISMS FOR STUDYING HUMAN BODY
JPRS-24183 N64-18966 11-16

RECORDING ELECTROPLETHYSMOGRAMS OF PARTS AND ORGANS OF HUMAN BODY
NASA-TT-F-203 N64-20194 13-16

DISTRIBUTION OF BLOOD FLOW IN HUMAN SKIN
AD-405777 N64-20445 13-16

ELECTROENCEPHALOGRAPHIC CHANGES IN HUMANS DURING BLACKOUTS INDUCED BY ACCELERATION
NADC-ML-6402 N64-20450 13-16

PHOTOSCANNING OF HUMAN LUNG WITH MACROAGGREGATES OF HUMAN SERUM RADIOALBUMIN
UCLA-12-521 N64-20672 13-16

CORTICOSTEROIDS IN HUMAN PAROTID FLUID FOLLOWING ORAL HYDROCORTISONE DOSAGE
SAM-TDR-63-12 N64-21101 14-16

MICROORGANISM TRANSMISSION BETWEEN TWO HUMAN BODIES IN SIMULATED SPACE CABIN
SAM-TDR-64-3 N64-21595 15-16

ACUTE RADIATION SICKNESS IN MAN
FTD-TT-63-558/1&2 N64-21645 15-16

TRACE METAL - ESSENTIAL OR DETRIMENTAL TO LIFE
BNL-828-/T-323/ N64-21733 15-16

SIMULTANEOUS STUDY OF EYE BLINKING REFLEXES AND FUNCTIONAL STATE OF CARDIOVASCULAR SYSTEM IN HUMANS
JPRS-24967 N64-21783 15-16

PHYSIOLOGICAL REACTION OF HUMAN BODY DURING ACCELERATION DIRECTED ALONG SPINE-BREAST AXIS
FTD-TT-63-1095/1&2 N64-21941 15-16

HUMAN BODY TEMPERATURE CONTROL AND MECHANISM OF BIOLOGICAL SYNTHESIS OF CHEMICAL COMPOUNDS
NASA-CR-56293 N64-22470 15-16

RADIATION PROTECTION OF PERSONS WORKING NEAR GAMMA RADIATION THERAPEUTIC UNITS
N64-22731 16-16

MEDICAL RESEARCH ON HUMAN BODY
JPRS-25241 N64-22744 16-16

DISTRIBUTION OF BONE MARROW IN SKELETON OF HUMAN BODY, RABBIT, AND RAT, USING RADIOACTIVE IRON ISOTOPE AND POSITRON SCINTILLATION CAMERA
N64-22853 16-16

PROPERTIES OF SERUM FROM RABBITS IMMUNIZED WITH HUMAN URINARY ERYTHROPOIETIN - HUMAN PHYSIOLOGY
N64-22854 16-16

LIPID TRANSFER BETWEEN HIGH DENSITY AND VERY LOW DENSITY LIPOPROTEINS N64-22864 16-16

REACTION OF HUMAN AND ANIMAL CARDIOVASCULAR SYSTEM UNDER CONDITIONS OF WEIGHTLESSNESS
NASA-TT-F-8895 N64-22941 16-16

EFFECTS OF COSMIC FLIGHTS ON HUMAN ORGANISM
FTD-TT-63-719/1&2 N64-23309 16-16

METHODS OF PHYSIOLOGICAL TESTING IN HUMANS
FTD-TT-63-916/1 N64-23428 16-16

MEASUREMENT OF FORCES ON HUMAN BODY DUE TO AIR MOVEMENT
CARI-63-9 N64-23617 16-16

MEDICAL AND BIOLOGICAL PROBLEMS OF SPACE FLIGHT AND EFFECT OF WEIGHTLESSNESS ON HUMANS
N64-23639 16-14

PHYSIOLOGICAL RESPONSE OF HUMAN BODY TO ACCELERATION
N64-23697 16-16

EXCITABILITY OF HUMAN VESTIBULAR ANALYZER UNDER CONDITIONS OF SHORT TERM WEIGHTLESSNESS
N64-23749 16-16

EFFECT OF STATOKINETIC STIMULI ON HUMAN BODY FUNCTIONS
N64-23760 16-16

FLUCTUATIONS IN ELECTROENCEPHALOGRAM OF MAN UNDER EXTENDED ISOLATION
N64-23867 16-16

AEROSPACE MEDICINE - WEIGHTLESSNESS AND ARTIFICIAL GRAVITY EFFECTS ON PLANTS, ANIMALS, AND HUMAN PERFORMANCE
FTD-TT-64-140/1&4 N64-24012 16-16

PROTECTION OF HUMAN EYE FROM LASER BEAM
TR-1153 N64-24092 16-14

MECHANICS OF HUMAN BODY
AMRL-TDR-63-123 N64-24339 17-16

KINETICS OF JOINT SYSTEMS AND STATE OF MOTION & EQUILIBRIUM IN MAN
N64-24341 17-16

PERFORMANCE OF SEATED HUMAN BODY IN SPACE ENVIRONMENT
N64-24343 17-16

BIOINSTRUMENTATION FOR MONITORING STUDY IN HUMAN PHYSIOLOGY IN CLOSED ECOLOGICAL SYSTEMS
N64-24622 17-15

MEASURED VARIATION IN TRANSFER FUNCTION OF HUMAN PILOT
NASA-RP-206 N64-25000 17-16

DYNAMICS OF SPATIAL ATTRIBUTES OF MOVEMENTS IN PROCESS OF FORMATION OF IMAGES OF GYMNASTIC EXERCISES
N64-25155 17-16

DISTRIBUTION OF BLOOD FLOW IN HUMAN SKIN
AD-411171 N64-25383 17-16

ANTIBODIES TO HUMAN A1 HEMOGLOBIN AND THEIR REACTION WITH CERTAIN OTHER HEMOGLOBINS
N64-25491 17-16

ELECTRODE FOR RECORDING OF PSYCHOPHYSIOLOGICAL AND PHYSIOLOGICAL PHENOMENA IN HUMANS
NASA-CR-56205 N64-25767 17-16

THRESHOLD OF ACCELERATION SENSATION IN MAN
JPRS-25929 N64-26880 18-16

METABOLIC INTERCHANGES OF MAN FOR DESIGN OF SPACE VEHICLES
SM-45905 N64-27338 19-16

PHYSIOLOGICAL RESPONSE OF HUMAN BODY DURING SPACEFLIGHT - EFFECTS OF WEIGHTLESSNESS
FTD-TT-64-258/1&2&4 N64-27844 19-16

BALLISTIC MOVEMENT OF LOWER LIMBS OF HUMANS
N64-28039 20-16

REACTION OF CARDIOVASCULAR SYSTEM OF MAN AND ANIMALS UNDER WEIGHTLESSNESS
N64-29090 21-16

PAROTID FLUID AND SERUM RESPONSES TO INTRAMUSCULAR INJECTION OF ADRENOCORTICOTROPIN /ACTH/ IN YOUNG ADULT MALES
SAM-TDR-64-37 N64-29286 21-16

METABOLIC CHANGES IN HUMANS FOLLOWING TOTAL BODY IRRADIATION
OASA-1422 N64-29941 21-16

INTERRELATIONSHIPS AMONG CONDITIONED RESPONSES IN ANIMALS AND HUMANS
FTD-TT-64-282/1&2 N64-30156 21-16

USE OF HUMAN THERMOREGULATORY PROPERTIES FOR QUARTZ CRYSTAL OSCILLATORS
USAELRDL-TR-2380 N64-31231 22-09

RADON TOLERANCE OF HUMAN GASTROINTESTINAL SYSTEM
UR-648 N64-31319 22-16

PHYSIOLOGY OF NERVOUS SYSTEMS OF HUMANS & ANIMALS
JPRS-26427 N64-31457 23-16

INDIVIDUAL DIFFERENCES AS FACTORS IN RESPONSES OF HUMAN BRAIN POTENTIALS TO RHYTHMIC LIGHT STIMULATION
N64-31458 23-14

WHOLE-BODY VIBRATION EFFECT ON PLASMA AND URINARY CORTICOSTEROID LEVELS IN MAN
AMRL-TDR-64-53 N64-31942 23-16

HUMAN BIOCHEMICAL GENETICS
JPRS-26577 N64-32163 23-16

PHYSICAL EFFECTS ON HUMAN BODY OF VIBRATIONS AND SOUND CAUSED BY MECHANICAL AND ELECTRICAL TOOLS
JPRS-26922 N64-32305 23-33

EXPONENTIAL MODEL FOR DETERMINING ABSORBED DOSAGE OF RADIOISOTOPE IN HUMAN BODY
FTD-TT-63-923/1&2 N64-32662 23-16

PHYSIOLOGICAL PROBLEMS OF ANIMALS - EFFECTS OF AGING, ULTRASONIC MEDICINE, MOBILITY OF NERVE PROCESSES, AND WEIGHTLESSNESS IN WATER ON HUMAN BODY
JPRS-26990 N64-33486 24-16

EFFECT OF ROTATIONAL STIMULUS ON HUMAN RESPIRATION
T-84-J N64-33496 24-16

HUMAN ENGINEERING
SA CYBERNETICS
SA MAN-MACHINE SYSTEM
OUTLINE OF SOVIET LITERATURE ON HUMAN ENGINEERING - PHYSIOLOGY, PSYCHOLOGY, AND HYGIENE
JPRS-18772 N64-10505 01-14

CYBERNETIC FEATURES OF HUMAN OPERATORS IN AUTOMATIC CONTROL SYSTEMS
JPRS-17544 N64-10695 02-16

PROBLEMS ON HUMAN ENGINEERING PSYCHOLOGY AND VISUAL AND SPATIAL PERCEPTION
JPRS-18719 N64-10786 02-16

PROBLEMS IN HUMAN ENGINEERING AND CYBERNETICS
N64-10787 02-16

MATHEMATICAL ANALYSIS OF RELATION OF VISUAL PERCEPTION TO PERCEPTION OF SPATIAL OBJECTS
N64-10788 02-11

HUMAN ENGINEERING IN AUTOMATIC DATA PROCESSING FOR INFORMATION RETRIEVAL
JPRS-19100 N64-10814 02-16

FUNCTIONAL ANALYSIS OF HUMAN ENGINEERING - PSYCHOLOGY
JPRS-21976 N64-10852 02-14

SPACE PROGRAM, HUMAN ENGINEERING, AND MEDICAL RESEARCH
N64-11516 03-16

HUMAN ENGINEERING IN MONITORING AND CHECKOUT EQUIPMENT
WDL-TR-1968 N64-13972 05-14

HUMAN ENGINEERING, TOLERANCE, AND PERFORMANCE IN SIMULATED SPACE FLIGHTS AND HIGH ALTITUDES
N64-15107 07-16

HUMAN ENGINEERING IN POWER GENERATOR AND VOICE COMMUNICATION LINK SUBSYSTEMS OF MOBILE AIR TRAFFIC CONTROL & COMMUNICATION SYSTEM, AN/TSQ-47
ESD-TDR-63-656 N64-15752 07-14

BIBLIOGRAPHY OF HUMAN FACTORS ENGINEERING - SYSTEM SAFETY, MAINTAINABILITY, PERSONNEL SUBSYSTEM, LIFE SCIENCES, QUALITY CONTROL, AND RELIABILITY
RH-3398B N64-18490 10-14

QUEUING MODEL FOR DETERMINING MANPOWER AND TRAINING - HUMAN ENGINEERING

AMRL-TDR-64-21 N64-19101 11-14

HUMAN ENGINEERING - BIBLIOGRAPHY
EETC-7, REV. A N64-20559 13-14

LOGIC SYSTEMS - THEORY OF STRUCTURES AND FUNCTION IN SCIENCE OF BEHAVIOR
ESD-TDR-64-193 N64-21533 15-16

EFFECT OF ENVIRONMENTAL TEMPERATURE, OXYGEN CONTENT, AND PHYSICAL EXERTION ON VISUAL PERCEPTION
FTD-TT-63-980/1&2 N64-23312 16-16

BIBLIOGRAPHY ON HUMAN FACTOR ENGINEERING
RH-3398-E N64-27351 19-14

HUMAN ENGINEERING CRITERIA FOR USE IN SPACE SYSTEMS ENGINEERING, ESPECIALLY IN MAINTENANCE AND REPAIR OF ADVANCED SPACE SYSTEMS
NASA-CR-58575 N64-29557 21-16

BIBLIOGRAPHY ON HUMAN ENGINEERING
ONR-ACR-86 N64-29676 21-14

TRAINING, MOTIVATION, AND HUMAN ENGINEERING
AD-446448 N64-29918 21-14

HUMAN FACTOR
SA MAN-MACHINE SYSTEM
HUMAN FACTORS OF PHOTO INTERPRETATION
RADC-TDR-63-324 N64-10526 01-14

HUMAN FACTOR PROBLEMS IN PHOTO INTERPRETATION
N64-10528 01-14

INFORMATION USED FOR HUMAN FACTORS PROBLEMS FREQUENTLY ENCOUNTERED IN DEVELOPMENT OF WEAPONS SYSTEM TRAINER
NAVTRADEVCEN-1103-1 N64-16887 08-10

HUMAN FACTORS RELIABILITY ANALYSIS OF MAN-MACHINE SYSTEM
SCR-685 N64-17267 09-14

BIBLIOGRAPHY OF HUMAN FACTORS ENGINEERING - SYSTEM SAFETY, MAINTAINABILITY, PERSONNEL SUBSYSTEM, LIFE SCIENCES, QUALITY CONTROL, AND RELIABILITY
RH-3398B N64-18490 10-14

HUMAN FACTORS & CONTROL SYSTEM
FTD-TT-63-331/1&2 N64-21945 15-14

EFFECT OF ENVIRONMENTAL TEMPERATURE, OXYGEN CONTENT, AND PHYSICAL EXERTION ON VISUAL PERCEPTION
FTD-TT-63-980/1&2 N64-23312 16-16

PSYCHOPHYSIOLOGY OF ILLUSIONS OF SPATIAL POSITION OF AIRCRAFT IN INSTRUMENT FLYING
N64-25158 17-16

SPATIAL PERCEPTIONS AS FACTOR IN HUMAN CAPACITY FOR WORK
N64-25162 17-16

BIOMEDICAL AND HUMAN FACTORS FOR MANNED EARTH ORBITING STATION
NASA-CR-56021 N64-25950 18-14

TRANSFER FUNCTIONS OF HUMAN PILOT IN VARIOUS MODEL
NASA-TN-D-2394 N64-26544 18-14

BIBLIOGRAPHY ON HUMAN FACTOR ENGINEERING
RH-3398-E N64-27351 19-14

ANNOTATED BIBLIOGRAPHY ON HUMAN SCIENCES IN INDUSTRY - ERGONOMICS
N64-28104 20-14

GIBSON THEORY ON VISUAL PERCEPTION AND HUMAN FACTORS - SENSORY CUES AND DYNAMIC DISTORTION IN HELICOPTER FLIGHT SIMULATOR
NAVTRADEVCEN-294-5 N64-28636 20-14

HUMAN FACTORS IN LIGHT PLANE ACCIDENTS
CARI-63-35 N64-29850 21-14

HUMAN FACTORS ENGINEERING STUDY OF DESIGN CONFIGURATIONS FOR LASER RANGE FINDER
R-1664 N64-32024 23-15

HUMAN FACTORS PROBLEMS OCCURRING DURING TESTING OF AIR TRAFFIC CONTROL/COMMUNICATIONS SYSTEMS
REPT.-353-R-6 N64-32162 23-08

HUMAN FACTORS INFORMATION REQUIREMENTS FOR SPACE SYSTEM DEVELOPMENT
NASA-CR-59050 N64-33208 24-14

HUMAN PATHOLOGY
HUMAN PHYSIOLOGY AND PATHOLOGY IN HIGH-ALTITUDE AREAS
N64-10516 01-16

LONG-RANGE CONSEQUENCES OF ACUTE CARDIAC ARREST IN SUCCESSFULLY RESUSCITATED PATIENTS
JPRS-22012 N64-11226 02-16

HUMAN PERFORMANCE
HUMAN PILOT CONTROL OF AIRCRAFT - BIBLIOGRAPHY
N64-10147 01-14

LABORATORY STUDIES OF ABILITY OF OBSERVERS TO PERFORM THREE VISUAL TASKS REQUIRED OF PILOTS IN APPROACH AND LANDING
HSR-RR-63/7-MK-X N64-10444 01-14

ABILITY OF HUMAN SUBJECTS TO PERFORM VISUAL TASKS REQUIRED IN APPROACH AND LANDING
N64-10445 01-14

ABILITY OF HUMAN SUBJECTS TO PERCEIVE SIX BASIC GEOMETRIC DESIGNS AT VARIOUS ANGLES
HSR-RR-61/13-MK-X N64-10446 01-14

ABILITY OF HUMAN SUBJECTS TO ALIGN WITH LINEAR STIMULI
HSR-RR-62/9-MK-X N64-10447 01-14

HUMAN PERFORMANCE IN ADJUSTING LINEAR STIMULUS TO HORIZONTAL POSITION
HSR-RR-63/2-MK-X N64-10448 01-14

FUTURE HUMAN PERFORMANCE IN COMPUTER PROGRAMMING
AMRL-TDR-63-78 N64-11177 02-14

PREDICTOR TO AID HUMAN OPERATOR IN REMOTE CONTROL OF VEHICLE OPERATING WITH SIGNAL TRANSMISSION LAG
NASA-TN-D-2229 N64-11993 03-22

COMPARISON OF HUMAN & MACHINE SOLUTION TO DECISION PROBLEM WHERE PROBABILITY OF REINFORCEMENT
VARIES - CYBERNETICS N64-12527 04-16

HUMAN PERFORMANCE DURING FLIGHTS OF VOSTOK V AND VI SPACECRAFT
N64-12891 04-32

CONDITIONS AFFECTING VIGILANCE BEHAVIOR AND RELATION TO VARIATION IN DETECTION RESPONSE
HUMRRO-RB-10 N64-13106 04-16

VISUAL PERCEPTION OF ALPHANUMERIC SYMBOLS
L8-31403 N64-13108 04-14

HUMAN CENTRIFUGES & PHYSIOLOGICAL EFFECTS OF ACCELERATION - HUMAN PERFORMANCE & TOLERANCE, AND ANIMAL STUDIES
AGARDOGRAPH-48 N64-13451 05-01

HUMAN CENTRIFUGE FOR TESTING EFFICIENCY IMPAIRMENT UNDER ACCELERATION
N64-13452 05-16

ACCELERATION TOLERANCES ON CENTRIFUGE - ABILITY OF MAN TO PERFORM TOTAL TASK IN TOTAL ENVIRONMENT
N64-13458 05-16

ERROR ANALYSIS OF HUMAN PERFORMANCE ON TRACKING TASKS UNDER STRESS
AD-428112 N64-14168 05-14

WOLFF-PARKINSON-WHITE SYNDROME AS AVIATION RISK - ELECTROCARDIOGRAPHIC ANOMALY
REPT.-15 N64-14778 06-14

HUMAN BEHAVIOR DURING SPACE TRAVEL - MAINTENANCE OF HEALTH
ENG. REPT.-11133 N64-14943 06-14

INFLIGHT VERTIGO AND LOSS OF CONSCIOUSNESS - ELECTROENCEPHALOGRAPHIC STUDIES
CARI-63-21 N64-14952 06-16

OXYGEN DEFICIENCY INFLUENCE ON HUMAN PERFORMANCE AND METABOLIC FUNCTIONS - AVIATION MEDICINE
DVL-205 N64-15034 07-16

HUMAN PERFORMANCE IN ROTATING ENVIRONMENT AT THREE REVOLUTIONS PER MINUTE
NASA-CR-55622 N64-15349 07-14

HUMAN GROUP PERFORMANCE DURING CONFINEMENT
ER-6024 N64-15747 07-14

WHOLE-BODY VIBRATION EFFECT ON VISUAL PERFORMANCE
03-3512-4 N64-15855 07-14

HUMAN INFORMATION PROCESSING UNDER TASK STRESS
ESD-TDR-63-657 N64-16088 07-14

PERFORMANCE DECREMENT IN VEHICLE DRIVING SKILL
REPT.-597 N64-16089 07-14

MANUAL CONTROL SYSTEMS AND HUMAN OPERATOR PERFORMANCE
NASA-CR-55514 N64-16111 07-14

REDUCTION OF NYSTAGMUS, DISORIENTATION, AND NAUSEA IN HUMAN SUBJECTS
NASA-CR-55756 N64-16330 08-14

HUMAN EFFICIENCY, PERFORMANCE, AND COMMUNICATION DURING FLIGHTS OF VOSTOK III AND VOSTOK IV
N64-16399 08-14

INFORMATION REQUIREMENTS AND PERFORMANCE CAPABILITES OF HUMAN OPERATOR FOR CONTROLLING AIRCRAFT IN LOW ALTITUDE TERRAIN FOLLOWING FLIGHT
CAL-IH-1715-E-5 N64-16489 08-14

HUMAN TRACKING PERFORMANCE & TOLERANCE TO ACCELERATION
NASA-CR-21 N64-16534 08-14

SIMULATOR STUDY OF HUMAN PERFORMANCE DURING LOW ALTITUDE, HIGH SPEED FLIGHT
TRECOM-TR-63-52 N64-16648 08-14

HUMAN PERFORMANCE AND LINEAR COMPUTER PROGRAMMING FOR PROBLEM SOLVING
AD-430035 N64-16653 08-01

WORK CAPACITY AS RELATED TO PHYSIOLOGICAL AND CHRONOLOGICAL AGING
CARI-63-18 N64-16728 08-14

EFFECTS OF MODIFIED TASK FEEDBACK DURING TRAINING ON PERFORMANCE OF SIMULATED ATTITUDE CONTROL TASK AFTER THIRTY DAYS
AMRL-TDR-63-125 N64-16811 08-14

LONG TERM SKILL TRANSFER AND FEEDBACK CONDITIONS DURING TRAINING AND REHEARSAL
AMRL-TDR-63-136 N64-16813 08-14

EFFECTS OF CURVILINEAR AND DISCRETE TRANSFORMATIONS OF ERROR INFORMATION ON HUMAN TRACKING PERFORMANCE
AMRL-TDR-63-137 N64-17510 09-14

SENSORY AIDS FOR BLIND AND BLIND-DEAF PEOPLE
N64-17886 10-15

SIGNAL DETECTION BY HUMAN OBSERVERS - PSYCHO-PHYSICS
ESD-TDR-64-174 N64-18588 11-14

ADAPTIVE DYNAMIC RESPONSE OF HUMAN OPERATOR IN SIMPLE MANUAL CONTROL
NASA-TN-D-2255 N64-18734 11-14

HUMAN PERFORMANCE AS MONITOR AND CONTROLLER OF MULTIDEGREE-OF-FREEDOM SYSTEMS N64-18796 11-14

SELF-ORGANIZING SYSTEMS INVOLVED IN HUMAN LEARNING AND PERFORMANCE - INTERACTION BETWEEN MAN AND ADAPTIVE MACHINE N64-18841 11-16

SHORT TERM MEMORY - NONEQUIVALENCE OF QUERY AND MESSAGE ITEMS
ESD-TDR-64-254 N64-19670 12-14

PERFORMANCE OF HUMAN OPERATORS OF TRACKING SYSTEMS
AD-428192 N64-19909 12-14

NONLINEAR ADAPTATION OF HUMAN OPERATOR IN PURSUIT TRACKING SYSTEM
NASA-CR-53879 N64-19955 12-14

BIOMEDICAL PROBLEMS OF ALTITUDE ACCLIMATIZATION FOR MAINTENANCE OF PHYSICAL AND MENTAL PERFORMANCE OF TROOPS AT 10,000 FEET OR ABOVE
AD-428100 N64-19965 12-14

EFFECT OF REFERENCE DISPLAY ON HUMAN DETECTION PERFORMANCE IN VISUAL VIGILANCE TASK
TR-750-2 N64-20409 13-14

EFFECT OF HORIZONTAL SINUSOIDAL OSCILLATION ON PSYCHOMOTOR PERFORMANCE OF HUMANS SERVICING SATURN V LAUNCH VEHICLE
NASA-TM-X-53011 N64-20591 13-14

HUMAN PERFORMANCE IN LONG TESTS OF VIGILANCE USING SIMULATED RADAR SCREEN
ESD-TDR-63-320 N64-21081 14-14

IMPROVEMENT OF HUMAN OPERATOR TRACKING PERFORMANCE IN MAN-MACHINE CONTROL SYSTEMS BY OPTIMUM FILTERING AND PREDICTION N64-21122 14-14

HUMAN PERFORMANCE - NYSTAGMUS FLUCTUATION DURING ADAPTATION TO LIVING IN ROTATING ROOM
N64-22433 15-14

SPATIAL PERCEPTION AS FACTOR IN HUMAN PERFORMANCE, LEARNING, AND WORK ACTIVITY
NASA-TT-F-164 N64-25132 17-16

THRESHOLDS OF SPATIAL DISCRIMINATION BY HUMAN FINGERS N64-25142 17-14

INTERACTION OF SPATIAL, DYNAMIC, AND TEMPORAL COMPONENTS OF WORKING MOVEMENTS IN LEARNING TO FILE METAL N64-25156 17-16

ROLE OF SPATIAL PERCEPTION IN WORKING AT CONVEYER
N64-25157 17-16

ROLE OF SPATIAL CONCEPTS IN MAP READING AND INTERPRETATION OF AERIAL PHOTOGRAPHS
N64-25159 17-16

PROCESS OF SPATIAL CONCEPTUALIZATION IN STUDENTS OF DRAWING AND DESIGNING N64-25161 17-16

HUMAN PERFORMANCE - TROUBLESHOOTING STRATEGY
AMRL-MEMO-P-54 N64-26852 18-14

ENHANCEMENT OF WORK PERFORMANCE BY ORALLY PRESENTED RESULTS
TR-18 N64-27096 19-14

RELATION OF HUMAN PERFORMANCE IN AUDITORY VIGILANCE TO CHANGES IN REINFORCEMENT
TR-19 N64-27097 19-14

AUTOMATIC COMPUTER METHODS FOR DETERMINING PARAMETERS OF HUMAN PILOT PERFORMANCE DESCRIBED BY LINEAR TIME-INVARIANT MODEL
NASA-CR-56373 N64-27385 19-14

MODEL MATCHING TECHNIQUES FOR DETERMINATION OF HUMAN PERFORMANCE IN TWO-AXIS TRACKING TASK
NASA-CR-56372 N64-27033 19-08

HARMONIC ANALYSIS OF HUMAN PERFORMANCE OF TRACKING IN T-33 AIRCRAFT, IN CENTRIFUGE SIMULATION, AND IN STATIONARY SIMULATION
NADC-AC-6406 N64-28696 20-14

HUMAN CAPABILITIES AND LIMITATIONS IN OPERATION, MAINTENANCE, AND CONTROL OF TACTICAL METEOROLOGICAL INSTRUMENTS
ESD-TDR-64-437 N64-29751 21-14

ENGINEERING ANALOGY FOR PREDICTING HUMAN TRACKING PERFORMANCE
AD-602861 N64-29762 21-14

REHEARSAL EFFECTS ON HUMAN PERFORMANCE - SHORT

TERM RECALL OF BRIEFLY EXPOSED DISPLAYS
NAVTRADEVCEN-1303-1 N64-29814 21-14

EFFECT OF REPEATED MILD ANGULAR ACCELERATIONS IN TOTAL DARKNESS ON HUMAN VESTIBULAR NYSTAGMUS WHILE SUBJECTS PERFORM ATTENTION-DEMANDING TASKS
CARI-63-29 N64-29847 21-14

MATHEMATICAL MODEL OF PERFORMANCE OF HUMAN OPERATOR IN VISUAL-MANUAL TRACKING SITUATION
TR-EE64-15 N64-30018 21-14

ROLE OF PINNA IN HUMAN LOCALIZATION
AD-600151 N64-30491 22-14

BIBLIOGRAPHY ON MAINTENANCE PERSONNEL PERFORMANCE MEASUREMENT
AMRL-MEMO-P-45 N64-30500 22-14

INFORMATION ASSIMILATION FROM ALPHA-NUMERIC DISPLAYS - HUMAN PERCEPTION
AD-601973 N64-30646 22-14

LECTURES IN AEROSPACE MEDICINE - LIFE SUPPORT SYSTEMS, HUMAN PERFORMANCE, AND LANDING SIMULATION FOR MANNED LUNAR LANDING, ORBITING LABORATORY, AND MARS MISSIONS
AD-445253 N64-30712 22-16

CREW TRAINING AND HUMAN PERFORMANCE ON SPACE MISSIONS N64-30718 22-14

SATELLITE TO EARTH VISIBILITY OF CREWMAN - HUMAN PERFORMANCE N64-30720 22-14

SATELLITE TO SATELLITE VISIBILITY OF CREWMEN - HUMAN PERFORMANCE N64-30721 22-14

GEOGRAPHICAL ORIENTATION, OPERATIONAL PROBLEMS, HUMAN PERFORMANCE DURING VIBRATION, AND PHYSICAL AND GEOMETRIC PARAMETERS AFFECTING VISIBILITY IN LOW ALTITUDE HIGH SPEED FLIGHT
ACR-95 N64-31508 23-14

EFFECTS OF PHYSICAL AND GEOMETRIC PARAMETERS AND HUMAN VISUAL LIMITATIONS ON VISIBILITY DURING LOW ALTITUDE HIGH SPEED FLIGHT N64-31511 23-14

HUMAN PERFORMANCE DURING SINUSOIDAL AND RANDOM VIBRATION IN LOW SPEED, HIGH ALTITUDE FLIGHT N64-31512 23-14

AUTO-INSTRUCTIONAL PROGRAM OF FIRST WEEK OF BASIC ELECTRONICS COURSE
AD-601681 N64-31702 23-09

VIBRATION EFFECTS ON HUMAN PERFORMANCE OF DIAL READING
CAL-VH-1838-E-1 N64-32208 23-14

HUMAN ELECTRORETINOGRAPHY AND VISUAL PERFORMANCE
APR-2 N64-32379 23-16

HUMAN PERFORMANCE UNDER EXTENDED WEIGHTLESSNESS DURING VOSTOK II SPACECRAFT FLIGHT
FTD-TT-64-147/164 N64-32457 22-32

BIBLIOGRAPHY ON HUMAN PERFORMANCE IN TRACKING SYSTEMS
CAL-131 N64-32606 23-14

UPPER EXTREMITY PROSTHETICS, SENSORY MOTOR CONTROL AND HUMAN PERFORMANCE IN TRACKING
REPT.-64-30 N64-33689 24-14

REPLACEMENT OF MOTOR RESPONSES WITH VERBAL RESPONSES IN HUMAN PERFORMANCE
JPRS-27172 N64-33960 24-14

HUMAN REACTION
ELECTRIC BREAKDOWN AND ARCING IN ION THRUSTORS FOR POWER SUPPLIES
AIAA PAPER-63-057 N64-20713 13-27

HUMAN REACTIONS TO SLOW ROTATIONAL MOTION
NASA-CR-53988 N64-20731 13-16

PROBLEMS IN STUDYING EFFECT OF WEIGHTLESSNESS ON HUMANS N64-23738 16-16

HUMAN REACTION TO WEIGHTLESSNESS N64-23748 16-16

ACCELERATION CART TO STUDY HUMAN VESTIBULAR REACTION TO SMALL LINEAR ACCELERATIONS
NASA-CR-58128 N64-26596 18-10

HUMAN REACTION TO TORQUE REQUIRED FOR SUPPORT OF MASS ON ROD WITH EXTENDED ARM AND HAND
TR-20 N64-27098 19-14

HUMAN REACTION TO SONIC BOOM N64-30466 22-14

INSTRUMENT TO PREDICT PHYSIOLOGICAL & SUBJECTIVE RESPONSE OF HUMANS TO TEMPERATURE DIFFERENCES
REPT.-6 N64-30629 22-15

PSYCHOLOGICAL RESPONSES AND HUMAN ADAPTIBILITY TO HEAT AND COLD - INSTRUMENTATION
AD-603074 N64-30859 22-16

PLETHYSMOGRAPHY OF HUMAN VASCULAR SYSTEM RESPONSE TO COLD STIMULUS IN NOSE CAVITY N64-31104 22-16

HUMAN REACTIONS TO FEARED ELECTRIC SHOCK AND TO PRETENDED PAINFUL STIMULUS SHOWN BY HEART RATE & OTHER PHYSIOLOGICAL CHANGES N64-31459 23-14

PHYSIOLOGICAL SIGNIFICANCE OF HUMAN VOICE AS OBSERVED IN CHILDREN N64-31461 23-14

HUMAN REACTIONS TO COLD ENVIRONMENT
AD-444482 N64-33366 24-14

HUMAN TOLERANCE
SA HEAT TOLERANCE
ADAPTATION OF HUMANS TO SPACE FLIGHT CONDITIONS, AND EFFECTS OF SPACE ENVIRONMENT ON MAN N64-10146 01-16

EFFECTS OF SPACE ENVIRONMENT CONDITIONS ON MAN - SELECTION & TRAINING OF ASTRONAUTS, AND NUTRITION PROBLEMS
JPRS-21586 N64-10197 01-16

ACCLIMATIZATION OF MAN TO FAR NORTH AND SOUTH
JPRS-21481 N64-10597 01-16

PHYSIOLOGICAL RESPONSES OF MAN UNDER CONDITIONS OF ALTERNATING OVERLOAD AND WEIGHTLESSNESS N64-10703 02-14

HUMAN SURVIVABILITY OF EXTREME IMPACTS IN FREE FALL
CARI-63-15 N64-11995 03-16

INFLUENCE OF RADIATION EXPOSURES ON PLANT EMPLOYEES
ANL-6688 N64-12132 03-16

TIME-CONCENTRATION EFFECTS OF OXYGEN TOXICITY IN MAN N64-12864 04-16

HUMAN CENTRIFUGES & PHYSIOLOGICAL EFFECTS OF ACCELERATION - HUMAN PERFORMANCE & TOLERANCE, AND ANIMAL STUDIES
AGARDOGRAPH-48 N64-13451 05-01

HUMAN TOLERANCE AND LIMITATIONS TO ACCELERATION N64-13455 05-16

ACCELERATION TOLERANCES ON CENTRIFUGE - ABILITY OF MAN TO PERFORM TOTAL TASK IN TOTAL ENVIRONMENT N64-13458 05-16

RESTRAINT & PROTECTION OF HUMAN EXPERIENCING

SMOOTH OR OSCILLATING ACCELERATIONS SIMULATING SPACE FLIGHT N64-13459 05-16

HUMAN TOLERANCE - RESPIRATORY IMPAIRMENT FROM FORWARD ACCELERATION N64-13460 05-16

RESPIRATORY PHYSIOLOGY DURING FORWARD ACCELERATION AND PROTECTIVE MEASURES N64-13461 05-16

CARDIOVASCULAR RESPONSE IN MAN DURING FORWARD ACCELERATION N64-13463 05-16

CENTRIFUGES FOR STUDYING LONG TERM ACCELERATION STRESS ON MAN AND ANIMALS N64-13465 05-16

THERMAL & METABOLIC RESPONSE OF MEN TO MODERATE COLD EXPOSURE AT NIGHT
AAL-TDR-62-44 N64-13645 05-16

HUMAN TOLERANCE AND PILOT PERFORMANCE DURING LONG ACCELERATIONS IN CENTRIFUGE N64-15106 07-14

HUMAN ENGINEERING, TOLERANCE, AND PERFORMANCE IN SIMULATED SPACE FLIGHTS AND HIGH ALTITUDES N64-15107 07-16

HUMAN AND ANIMAL TOLERANCE OF HEAT
FTD-TT-63-650/1&4 N64-16383 08-16

VIBRATION ENVIRONMENT, HUMAN TOLERANCE TO EXTREME VIBRATIONAL STRESS, & EFFECT OF VIBRATION ON OPERATOR PERFORMANCE - ABSTRACTS N64-16674 08-16

PHOTOELECTRIC RECORDING APPARATUS AND MEASUREMENT OF ACCELERATION TOLERANCE OF HUMAN HEAD
AMRL-TDR-63-106 N64-16808 08-16

EFFECTIVE MEANS OF INCREASING HUMAN ENDURANCE UNDER CONDITIONS OF ACCELERATION STRESS
FTD-MT-63-20/1 N64-18665 11-16

HUMAN TOLERANCE TO EXTENDED PERIODS OF WEIGHTLESSNESS
JPRS-24308 N64-18973 11-14

EFFECTS OF AMBIENT PRESSURE ON TOLERANCE OF MICE TO AIR BLAST
DASA-1483 N64-21078 14-16

HUMAN TOLERANCE TO TRANSVERSE ACCELERATION AND DECELERATION FORCES N64-22075 15-16

HUMAN TOLERANCE TO ENVIRONMENT IN ROTATING SPACE STATION - SPACE FLIGHT SIMULATION
ADN-04-09-63.1 N64-23474 16-30

TOLERANCE TO VEHICLE ROTATION OF ASTRONAUTS USING TURNING AND NODDING MOTION OF HEAD WHILE PERFORMING SIMPLE TASKS
AIAA PAPER-64-218 N64-23608 16-14

PHYSIOLOGICAL EFFECTS AND HUMAN TOLERANCES - INFLUENCE ON DESIGN OF LIFE SUPPORT SYSTEMS FOR SUBMARINES OR SPACECRAFT N64-24610 17-16

VISUAL CONTROL OF ACCLIMATIZATION TO COMPLEX VESTIBULAR STIMULATION IN MAN
NASA-CR-56896 N64-27889 20-14

WORK CAPACITY AND TOLERANCE INFLUENCED BY AGE AND ALTITUDE - PHYSIOLOGY
CARI-63-33 N64-29849 21-14

RADON TOLERANCE OF HUMAN GASTROINTESTINAL SYSTEM
UR-648 N64-31319 22-16

HUMAN WASTE
SA URINE
MEDICAL CLINIC INVESTIGATION OF WATER RECOVERED FROM HUMAN URINE
AMRL-TDR-63-70 N64-11445 03-16

CHEMICAL CHANGES OF HUMAN WASTE UNDERGOING THERMAL DECOMPOSITION AND GROWTH OF CHLORELLA ON ASH FROM VOLATILIZATION PROCESS
TN-62-13 N64-19556 12-16

COMBUSTION OF HUMAN WASTE AND PRODUCT RECOVERY BY CHLORELLA
TN-62-16 N64-21554 15-16

TOXIC GASEOUS PRODUCTS EXCRETED BY HUMANS ENCLOSED IN AIRTIGHT CHAMBER N64-23755 16-16

BIOCHEMICAL FUEL CELLS FOR DEGRADING HUMAN WASTE AND PRODUCING ELECTRICAL ENERGY
NASA-CR-56231 N64-25769 17-06

BIOCHEMICAL FUEL CELLS FOR DEGRADING HUMAN WASTE AND PRODUCING ELECTRICAL ENERGY USING MICROORGANISMS
NASA-CR-56448 N64-27908 20-06

MICROBIAL AND ENZYMATIC PROCESSES FOR REDUCING HUMAN URINE AND FECES TO ELECTROCHEMICAL FUELS
NASA-CR-54077 N64-27930 20-06

PHYSIOLOGY OF PREDOMINATING TYPE CULTURES ISOLATED FROM HUMAN WASTE /FECES/
NASA-CR-58287 N64-29194 21-16

ELECTROCHEMICAL POWER OUTPUT OF HUMAN WASTE AS BIOCHEMICAL FUEL CELL
NASA-CR-58715 N64-29220 21-06

ELECTROCHEMICAL DEGRADATION OF HUMAN WASTES - BIOASSAY WITH CHLORELLA
AD-605724 N64-30569 22-16

WATER RECOVERY FROM SEA WATER AND FROM HUMAN URINE
REPT.-3 N64-30696 22-16

FACTORS AFFECTING CHLORELLA GROWTH IN ELECTROCHEMICALLY DEGRADED HUMAN WASTE
AD-447801 N64-31315 22-16

TREATMENT OF UNDILUTED HUMAN WASTE BY ACTIVATED SLUDGE PROCESS
AAL-TDR-63-36 N64-32115 23-16

HUMIDITY
CF MOISTURE
CF WATER VAPOR
ABSORPTION AND EMISSION SPECTRUM OF ATMOSPHERIC WATER VAPOR IN K-BAND N64-10915 02-21

ATMOSPHERIC POLLUTION - DEFINITION, PARAMETERS, & CHARACTERISTICS OF AIR AND ATMOSPHERIC POLLUTANTS AND CLASSIFICATION OF DUSTS AND MISTS N64-11046 02-21

WATER TRANSFER FROM SOIL TO ATMOSPHERE AS RELATED TO SOIL PROPERTIES, PLANT CHARACTERISTICS, AND WEATHER N64-12988 04-12

VISCOSITY MEASUREMENTS OF DRY AND HUMID AIR - SQUID PROJECT
TR-BRN-12-P N64-16096 07-11

SATELLITE MEASUREMENT OF HIGH ALTITUDE WATER VAPOR AND ATMOSPHERIC MOISTURE
NASA-CR-53937 N64-20004 13-12

CLIMATOLOGY - TEMPERATURE AND HUMIDITY TABLES FOR TROPICS AND TEMPERATE REGIONS
AD-600318 N64-22517 15-21

MOISTURE ANALYZER FOR DETERMINING TEMPERATURE OF MARS ATMOSPHERE
NASA-CR-56454 N64-24042 16-29

WARM FOG PROPERTIES AND FOG MODIFICATION CONCEPTS
NASA-CR-72 N64-24829 17-21

CLIMATOLOGY FROM TIROS SATELLITE RADIOMETRY DATA - ATMOSPHERIC MOISTURE AND HEAT BALANCE
NASA-TM-X-55088 N64-33637 24-12

HUMIDITY MEASUREMENT
STEAM-HYDROGEN SYSTEM - HEAT CONTENT AND HUMIDITY DIAGRAM
RSIC-106 N64-13813 05-23

DEW POINT TEMPERATURE AND ATMOSPHERIC ELECTRICITY MEASUREMENTS IN UPPER ATMOSPHERE N64-15665 07-21

ENGINEERING AND TESTING OF TEMPERATURE-HUMIDITY MEASURING SET AN/TMQ-11-A
AFCRL-63-595 N64-18607 11-15

HUNGARY
TRIANGULATION IN GEODETIC SURVEYING OF HUNGARY
JPRS-21748 N64-10120 01-12

GEODESY AND CARTOGRAPHY IN HUNGARY
JPRS-19587 N64-11128 02-12

HURRICANE
CF CYCLONE
CF STORM
DYNAMIC MODELS WITH CORIOLIS EFFECT TO EXPLAIN FORMATION OF SPIRAL CLOUD BANDS IN HURRICANES AND CYCLONES
GCA-TR-63-4-G N64-11945 03-21

WEATHER RADAR RESEARCH AND ANALYSIS OF HURRICANE AND TORNADO DYNAMICS
AFCRL-64-202 N64-16977 09-21

TROPICAL METEOROLOGY - LOW LATITUDE ATMOSPHERIC DISTURBANCES AS CAUSES OF HURRICANES
AD-428604 N64-19936 12-21

NUMERICAL COMPUTATION OF STORM SURGE OF HURRICANE CARLA 1961 IN GULF OF MEXICO
TR-10 N64-21744 15-21

HURRICANE DETECTION BY INFRARED RADIATION MEASUREMENT OF TIROS WEATHER SATELLITE
N64-25013 17-32

SATELLITE METEOROLOGY ANALYSES - DATA FOR TROPICAL STORMS AND HURRICANES, AND TERRESTRIAL FEATURES
AFCRL-63-843 N64-31156 22-21

OPTIMUM PARAMETERS AND OPERATION MODES FOR AIRBORNE WEATHER-RECONNAISSANCE RADAR AND ANALYSIS OF RADAR ECHO MOTION ABOUT HURRICANE
AD-421622 N64-31256 22-21

HURRICANE MODIFICATION
NASA-CR-59080 N64-33092 24-21

HUYGEN PRINCIPLE
FORMULATION OF HUYGENS PRINCIPLE AND INTEGRAL EQUATIONS FOR ELECTROMAGNETIC WAVES AND DIFFRACTION PROBLEMS N64-20425 13-23

THEORY OF HIGH ENERGY DIFFRACTION - COLLISIONS OF FAST PARTICLES WITH NUCLEI N64-29069 21-23

HYBRID ROCKET
THERMODYNAMIC CALCULATIONS FOR LIQUID OXIDIZER AND SOLID FUEL COMBINATIONS IN HYBRID ROCKETS
FA-R-1715 N64-22274 15-27

HYDRA PROJECT
PROJECT HYDRA-IRIS - TWO-STAGE ROCKET
NOTS-TP-3391 N64-21589 15-04

HYDRATE
STRUCTURE OF TETRA N-BUTYL AMMONIUM FLUORIDE HYDRATE CRYSTALS N64-10978 02-28

LATTICE TYPE & IONIC DISTRIBUTION OF PER-ALKYL AMMONIUM, PHOSPHONIUM, AND SULFONIUM SALT HYDRATE CRYSTALS N64-10979 02-25

LOW TEMPERATURE MAGNETIC SUSCEPTIBILITY OF HYDRATED NICKEL NITRATES
TR-19 N64-25509 17-23

SYNTHESIS OF ALUMINUM FLUORIDE BY REACTING ALUMINA HYDRATE WITH DILUTE AQUEOUS FLUORIDE SOLUTIONS
BM-RI-6524 N64-29946 21-07

HYDRATION
CF HYDROLYSIS
THERMOGRAVIMETRIC STUDY OF PROTEIN HYDRATION
RSIC-260 N64-32494 23-07

HYDRAULIC EQUIPMENT
TRANSMISSION OF HYDRAULIC POWER USING PULSATING FLOW - PISTON TRANSFORMER WITH FLUID REPLENISHMENT UNIT
RAC-933-3 N64-14107 05-11

HYDRAULIC POWER TRANSMISSION BY PULSATING FLOW OR PRESSURE - COMPONENT DESIGN AND ANALOG COMPUTER PROGRAM
RAC-933-5 N64-25924 18-11

HYDRAULIC TENSION-COMPRESSION FATIGUE TESTING MACHINE
D1-82-0268 N64-28712 20-10

SPONTANEOUS IGNITION OF HYDRAULIC FLUIDS DURING COMPRESSION PROCESSES
AD-602888 N64-30554 22-26

ROCK STRESS MEASUREMENT WITH HYDRAULIC EQUIPMENT AND FLAT SLOTS
BM-RI-6537 N64-31254 22-15

TEST PLAN FOR X-22A AIRCRAFT - DESCRIPTIONS AND SPECIFICATIONS FOR PROPULSION SYSTEM, FLIGHT CONTROL, HYDRAULIC SYSTEM, ELECTRIC SYSTEM, AND INSTRUMENTATION
REPT.-2127-931001 N64-31306 22-04

HYDRAULIC FLUID
SA MINERAL OIL
SA OIL
HYDRAULIC LUBRICATING FLUID EVALUATION
FTDN-2907 N64-12330 03-17

ANALYSIS OF HYDRAULIC FLUID FOR GELATINOUS AND POLYMERIZED CONTAMINATION
FZM-4045 N64-20073 13-07

NONFLAMMABLE HYDRAULIC FLUIDS & LUBRICANTS
BMPR-3 N64-24152 16-19

FIRE RESISTANT, WATER-BASE LUBRICANT AND HYDRAULIC FLUID - ESTER SYNTHESIS, BLENDING FORMULAS, AND VISCOSITY
AD-600568 N64-25984 18-19

FIRE RESISTANT WATER BASE HYDRAULIC FLUID
BR-1 N64-26429 18-17

DEVELOPING NONFLAMMABLE HYDRAULIC FLUIDS AND LUBRICANTS
BMPR-4 N64-28130 20-17

HIGH TEMPERATURE ENVIRONMENT FOR HYDRAULIC FLUIDS, ELECTRONIC COOLANTS, FUELS, AND LUBRICANTS
N64-28180 20-26

SPONTANEOUS IGNITION OF HYDRAULIC FLUIDS DURING COMPRESSION PROCESSES
AD-602888 N64-30554 22-26

METHODS OF SIZE PERCEPTION AND COUNTING PARTICLES IN HYDRAULIC FLUIDS AND LUBRICANTS
ML-TDR-64-72 N64-30652 22-15

HYDRAULIC SHOCK
DYNAMIC RESPONSE OF SPACECRAFT ELECTRONIC PACKAGING TO HYDRAULIC SHOCKS N64-18553 11-33

HYDRAULIC SYSTEM
HIGH TEMPERATURE ELASTOMERIC AND METALLIC SEALS FOR AIRCRAFT HYDRAULIC SYSTEM N64-19022 11-19

PISTON MOTION OF HYDRAULIC SERVOSYSTEM
N64-23558 16-11

HYDRAULICS
CF FLUID MECHANICS
CF HYDRODYNAMICS
THERMAL & HYDRAULIC CHARACTERISTICS OF ROD BUNDLES COOLED BY FORCED FLOW OF WATER WITH BULK BOILING AT HIGH PRESSURE
DP-857 N64-11777 03-13

ELECTRICAL PROSPECTING IN HYDRAULIC CONSTRUCTION SURVEY OF PERENNIALLY FROZEN ROCK
JPRS-22701 N64-13087 04-12

SEMINAR ON HYDRAULICS AND FLUID MECHANICS
N64-13922 05-11

HYDRAULIC PULSATION CONCEPTS
RAC-933-2 N64-14095 05-06

BIBLIOGRAPHY ON TWO-PHASE GAS-LIQUID SYSTEMS - HEAT TRANSFER AND HYDRAULICS
ANL-6734 N64-15799 07-13

HYDRAULIC PROPERTIES OF POROUS MATERIAL -

RELATIONSHIPS AMONG SATURATION, PRESSURE DIFFERENCE, AND PERMEABILITIES OF AIR AND LIQUID
HYDROL. PAPER-3 N64-28120 20-11

HYDRAULICS AND GAS DYNAMICS
NASA-TT-F-146 N64-28504 20-11

HIGH HEAD KAPLAN TURBINE RESEARCH - HYDRAULIC EFFICIENCY AND CAVITATION PERFORMANCE
REPT.-144 N64-31433 23-11

EFFECTS OF DEPOSITS IN TUBES ON HYDRAULIC PRESSURE DROP
RSIC-269 N64-32496 23-11

TRANSMISSION AND UTILIZATION OF HYDRAULIC POWER THROUGH USE OF PULSATING PRESSURE OR FLOW
APL-TDR-64-109 N64-33928 24-17

HYDRAZINE
SA DIMETHYL HYDRAZINE
SA TETRAFLUORONYDRAZINE
HYDROLYSIS & SYNTHESIS OF TETRAZINEDICARBOXYLIC ACID AND BENZALHYDRAZINOOXALIC ACID
RSIC-95 N64-12604 04-07

SEMI-OXAMAZIDE PREPARED BY REACTION OF HYDRAZINE & OXAMIC ACID
RSIC-96 N64-12605 04-07

LIQUID HYDRAZINE-OXYGEN FUEL CELL FOR AEROSPACE APPLICATION N64-17409 09-06

POLAROGRAPHIC MEMBRANE FOR DETECTING PENTABORANE GAS - INFRARED DETECTOR - ANALYSIS OF CRYOGENIC PROPELLANTS & PENTABORANE-HYDRAZINE FIRING RESIDUE
R-5462 N64-21061 14-26

MECHANISM OF ACUTE TOXIC EFFECTS OF HYDRAZINE AND HYDRAZINE COMPOUNDS
AMRL-TDR-64-26 N64-22373 15-16

DIPHENYL-PICRYLHYDRAZINE AS RADICAL SCAVENGER
RSIC-214 N64-27050 19-07

X-RAY IRRADIATION 1,1-DIMETHYHYDRAZINE AND HYDRAZINE AT ROOM TEMPERATURE
NASA-TN-D-2452 N64-27225 19-26

RAPID SCREENING TECHNIQUE IN VIVO FOR METABOLIC STUDY OF CHEMICAL TOXICITY OF HYDRAZINE AND ITS DERIVATIVES IN RATS N64-28947 20-16

DECOMPOSITION KINETICS OF HYDRAZINE USING SINGLE-PULSE SHOCK TUBE
PSU-12-P N64-29799 21-26

SUPERCOOLING OF HYDRAZINE IN THIN-WALLED CAPILLARIES AND AS DROPLETS SUSPENDED IN SILICONE OIL
NRL-6130 N64-29960 21-13

THERMAL DECOMPOSITION OF HYDRAZINE USING SHOCK TUBE COUPLED TO MASS SPECTROMETER
AR-35-63 N64-33413 24-26

HYDRAZINE ENGINE /NIMPHE/
S ROCKET ENGINE

HYDRAZOIC ACID
SYNTHESIS AND EXPERIMENTAL INVESTIGATION OF HYDRAZOIC ACID
RSIC-94 N64-12603 04-07

REACTION KINETICS OF NITROGEN DIOXIDE WITH HYDRAZOIC ACID IN GAS PHASE
TIL/T-5369 N64-28805 20-07

HYDRIDE
SA BORANE
SA DECABORANE
SA DIBORANE
SA LITHIUM HYDRIDE
SA PENTABORANE
TITANIUM HYDRIDE METAL TO CERAMIC SEAL
MATT-228 N64-12091 03-17

COMPLEX TRANSITION METAL HYDRIDES AND PROBABLE MECHANISM REQUIRED FOR STABILITY
SSD-TDR-63-283 N64-12583 04-19

ISOLATION OF BORON HYDRIDE ION - SALT FORMATION WITH TETRAMETHYLAMMONIUM CHLORIDE & SEPARATION BY POTASSIUM HYDROXIDE REACTION N64-14433 06-07

DESIGN & SAFETY OPTIMIZATION OF HYDRIDE FUEL SNAP REACTORS N64-14558 06-06

REENTRY BURNUP OF HYDRIDED ZIRCONIUM-URANIUM ALLOY N64-14576 06-18

HYDROGEN CONCENTRATION AND HYDRIDE MORPHOLOGY EFFECTS ON TENSILE PROPERTIES OF ANNEALED AND QUENCHED ZIRCALOY
WAPD-TM-275 N64-15392 07-18

REACTION KINETICS OF IRON CYANIDE/FERRIC WITH BOROHYDRIDE IN AQUEOUS SOLUTION
UCRL-11252 N64-17979 10-07

QUANTITATIVE METALLOGRAPHY OF HYDRIDE PHASE IN ZIRCALOY-2 PROCESS TUBES FROM NUCLEAR REACTOR
HW-74949 N64-19038 11-07

ELECTROSYNTHESIS OF OZONE AND POLAROGRAPHIC STUDY OF BOROHYDRIDES OF ALKALI METALS
FTD-TT-62-1462/1&2&4 N64-23662 16-07

POLAROGRAPHIC STUDY OF BOROHYDRIDES OF LITHIUM, SODIUM, POTASSIUM, AND CESIUM N64-23664 16-07

INELASTIC SCATTERING OF COLD NEUTRONS MEASURED ON VANADIUM HYDRIDE
EUR-522.D N64-26067 18-23

NEUTRON IRRADIATION EFFECTS ON MECHANICAL PROPERTIES OF HYDRIDED ZIRCONIUM ALLOYS
AECL-1986 N64-30906 22-18

CHEMICAL KINETICS OF BOROHYDRIDE ION FORMATION
QSR-6 N64-31317 22-07

PREPARATION AND CHEMICAL AND PHYSICAL PROPERTY STUDY OF BORANE AND TRIBOROHYDRIDE DERIVATIVES OF METHYLATED POLYAMINES
UCRL-7973 N64-33237 24-07

HYDROBAROPHONE
HYDROBAROPHONE FOR MEASURING INCREMENTAL PRESSURE FLUCTUATION
NOLTR-62-174 N64-14300 06-15

HYDROBIOLOGY
RADIOACTIVE CARBON-14 FOR AQUATIC ECOLOGY STUDY - HYDROBIOLOGY
JPRS-20614 N64-10593 01-16

HYDROCARBON
INSTRUMENT FOR MEASURING LOW CONCENTRATIONS OF HYDROCARBONS AND CARBON DIOXIDE IN GASES
WRE-TN-CPD-63 N64-10411 01-15

MECHANISMS OF RADIATIONAL-CHEMICAL REACTIONS FOR CONVERSION OF ORGANIC COMPOUNDS - HYDROCARBONS AND CONDENSED PHASES
JPRS-19876 N64-10834 02-07

BEHAVIOR OF CARBONYLAZIDE TOWARD AROMATIC HYDROCARBONS AND DECOMPOSITION OF CARBAZIDE
RSIC-93 N64-12921 04-07

ABSORPTION SPECTRUM OF CESIUM IN PRESENCE OF ISOMERIC HYDROCARBONS N64-13159 04-23

HYDROCARBON, AMMONIA, AND COAL GAS FUEL CELL
SAE-PAPER-783A N64-13332 04-06

SURVIVAL TIME OF MICE PROTECTED WITH NITRO-SUBSTITUTED HYDROCARBONS AFTER LETHAL DOSE OF X-RAYS N64-13507 05-16

GAS CHROMATOGRAPHIC ANALYSIS OF LOW MOLECULAR WEIGHT TRACE HYDROCARBONS PRESENT IN OXYGEN AND NITROGEN
WRE-TN-CPD-73 N64-15565 07-07

THREE-CARBON HYDROCARBONS IN FUEL CELLS WITH ACID ELECTROLYTES USING PLATINUM CATALYZED ELECTRODES

N64-17395 09-06

ECONOMIC AND LOGISTIC IMPACT OF HYDROCARBON-AIR OXIDATION FUEL CELLS ON TRACTION VEHICLE OPERATION
N64-17404 09-06

HYDROCARBONS IN TERRESTRIAL SAMPLES AND ORGUEIL METEORITE
N64-17567 09-05

GROWTH AND NONGROWTH OF VARIOUS MICROORGANISMS IN JET FUELS, LUBRICANTS, AND HYDROCARBONS
RTD-TDR-63-4117, PT. 1 N64-18029 10-26

ELEMENTARY HYDROCARBON MICROBIOLOGY
ASD-TDR-63-752 N64-21501 15-16

RADIATION DECOMPOSITION OF SEVERAL AROMATIC HYDROCARBONS & FREE RADICALS
USNRDL-TR-718 N64-21806 15-07

HYDROCARBON TRACES IN ATMOSPHERE AND LIQUID OXYGEN
FTD-TT-62-1665/1&2&4 N64-22627 15-07

HYDROCARBON ANALYSIS FOR DETECTION OF LIFE IN SPACE - GAS CHROMATOGRAPHY OF ALKANES
NASA-CR-50703 N64-22761 16-16

TOXICOLOGY OF ALIPHATIC AMINES N64-23370 16-16

BIOTIC AND ABIOTIC HYDROCARBON ANALYSIS FOR DETECTION OF LIFE IN SPACE
NASA-CR-53096 N64-23392 16-16

CARBON-HYDROGEN BONDING IN HYDROCARBON COMPOUNDS - METHYL HALIDES
AFCRL-64-486 N64-26184 18-07

EQUILIBRIUM OF HYDROCARBONS IN HIGH TEMPERATURE ENVIRONMENT AND TEMPERATURE MEASUREMENT IN ELECTRIC ARCS N64-28178 20-13

KINETICS AND MECHANISM OF PYROLYSIS OF HYDROCARBONS N64-28181 20-07

HYDROCARBON ANALYSIS AS MEANS OF DETECTING LIFE IN SPACE - ABIOTIC, BIOLOGICAL, SEDIMENTAL, AND METEORITIC ALKANES
NASA-CR-58500 N64-29202 21-16

THERMAL REACTIVITY OF AROMATIC HYDROCARBONS
WADD-TR-61-72, VOL. X, SUPPL. N64-29807 21-07

IGNITION AND COMBUSTION PROPERTIES OF ACTIVATED CARBON CONTAINING ADSORBED HYDROCARBONS FOR SUBMARINE AIR FILTERS
NRL-6090 N64-29955 21-26

CATALYSIS IN ELECTROCHEMICAL ENERGY CONVERSION AND ELECTROCHEMICAL OXIDATION OF HYDROCARBON PARALLEL REACTIONS
NASA-CR-59094 N64-33197 24-07

ELECTROCHEMICAL OXIDATION OF MOLECULAR PARALLEL REACTIONS N64-33199 24-07

HYDROCARBONS, ESTER BASE OIL, AND POLYPHENYL ETHER FOR LUBRICATING VACUUM MELTED STEEL BALL BEARINGS AT HIGH SPEEDS AND TEMPERATURES
NASA-CR-59283 N64-33330 24-17

CHARACTERISTICS OF HYDROCARBONS FROM LOW FREQUENCY ELECTRIC DISCHARGE IN METHANE
NASA-RP-361 N64-33991 24-29

HYDROCARBON FUEL
NONSULFUROUS FUEL FROM UNSATURATED SULFUROUS DISTILLATES BY THERMAL TREATMENT OF PETROLEUM RESIDUES WITH HYDROGEN FLUORIDE
FTD-TT-63-782/1&2 N64-11152 02-07

RAPID SOLIDIFICATION METHODS FOR HYDROCARBON FUELS
TRECOM-TR-63-50 N64-14977 06-26

THERMOELECTRIC GENERATOR WHICH USES LEAD GASOLINE FUEL N64-17385 09-06

ENERGY CONVERSION PROBLEMS OF HIGH TEMPERATURE HYDROCARBON FUEL CELLS N64-17396 09-06

VAPOR PRESSURE DETERMINATION OF HYDROCARBON FUELS AT HIGH TEMPERTURE - EXPERIMENTATION & CALCULATION
APL-TDR-64-37 N64-19653 12-19

MECHANICAL TECHNIQUES FOR KILLING, REMOVING OR CONTROLLING MICROORGANISMS IN HYDROCARBON FUELS
ASD-TDR-63-242 N64-19892 12-16

FEASIBILITY OF VAPORIZING HYDROCARBON FUELS IN VAPORIZING HEAT EXCHANGER PRIOR TO COMBUSTION FOR INCREASING HEAT SINK CAPACITY
ASD-TDR-62-920, PT. 2 N64-20125 13-26

SYNTHESIS AND EVALUATION OF DIISOCYNANATES AND AMINES FOR RAPID SOLIDIFICATION OF HYDROCARBON FUELS N64-25086 17-07

PHYSICAL PROPERTIES OF INDUSTRIAL FUEL MIXTURE OF HYDROCARBON COMPOUNDS FOR HEAT TRANSFER
EUR-1619.E N64-25543 17-13

SOLIDIFICATION OF HYDROCARBON FUELS - GELS
AD-439722 N64-26688 18-19

RELATION OF RADIANT ENERGY FROM FLAME TO MOLECULAR STRUCTURE OF HYDROCARBON FUELS
RDR-3752-64R N64-28690 20-26

CHELATE CATALYST FOR ELECTROCHEMICAL OXIDATION OF HYDROCARBON FUELS AT MODERATE TEMPERATURE
MRB-4012SA1 N64-31112 22-07

CATALYTIC REACTIONS AND THERMAL STABILITIES OF HYDROCARBON HEAT SINK FUELS
APL-TDR-64-100, PT. 1 N64-31741 23-26

THERMAL DECOMPOSITION AND PARTICLE FORMATION OF HYDROCARBON FUELS
ASD-TDR-63-102, PT. II N64-31820 23-26

RAPID SOLIDIFICATION OF DIISOCYANATE AND AMINE HYDROCARBON FUELS USING POLYUREA GELLING AGENTS
AD-447956 N64-32175 23-07

ENDOTHERMIC FUEL FOR ATLAS ROCKET MOTOR - TETRAISOBUTYLENE
RM-1084/362 N64-32959 24-26

THERMOSTABILITY OF HYDROCARBON FUELS
APL-TDR-64-89, PT. I N64-33304 24-26

EFFECT OF AVIATION TURBINE HYDROCARBON FUEL PROPERTIES ON CORROSION OF SUPERALLOYS AND ON FLAME RADIATION IN COMBUSTOR
RDR-3753-64R N64-33849 24-26

CHELATE CATALYST FOR ELECTROCHEMICAL OXIDATION OF HYDROCARBON FUELS AT MODERATE TEMPERATURES
AD-434194L N64-33983 24-07

HYDROCHLORIC ACID
EUDIOMETRIC METHOD USING FLUORIDE-CATALYZED HYDROCHLORIC ACID FOR DETERMINATION OF METALLIC THORIUM IN SLURRIES
AEET/ANAL/20 N64-10124 01-13

PROTACTINIUM EXTRACTION FROM HYDROCHLORIC ACID BY DIISOBUTYLCARBINOL N64-15660 07-07

BEHAVIOR OF PROTACTINIUM IN HYDROCHLORIC-HYDROFLUORIC ACID SOLUTIONS N64-15662 07-07

CORROSION BY HYDROGEN CHLORIDE GAS AND SOLUTIONS OF HYDROCHLORIC ACID N64-24267 17-07

ALLOYS WITH CORROSION RESISTANCE TO HYDROCHLORIC ACID AND SODIUM CHLORIDE SOLUTIONS
N64-24268 17-07

PLASTICS WITH RESISTANCE TO HYDROCHLORIC ACID ATTACK N64-24269 17-07

USE OF RUBBER PROTECTIVE COATINGS ON METAL TO PREVENT CORROSION BY HYDROCHLORIC ACID
N64-24271 17-07

RESISTANCE OF VITREOUS ENAMELS /CERAMIC COATINGS/ TO CORROSION AND LEACHING BY HYDROCHLORIC ACID
N64-24273 17-11

PAINTS AS PROTECTIVE COATING OF MASONRY AGAINST CORROSION BY HYDROCHLORIC ACID ATMOSPHERES
N64-24274 17-19

INHIBITORS TO REDUCE OR PREVENT CORROSION OF METAL BY HYDROCHLORIC ACID
N64-24275 17-07

NONMETALLIC STRUCTURAL MATERIALS FOR PROTECTION AGAINST CORROSION BY HYDROCHLORIC ACID
N64-24276 17-19

GROTTHUSS COMPONENT OF PROTONIC CONDUCTION IN AQUEOUS HYDROCHLORIC ACID SOLUTIONS
TR-1 N64-25624 17-09

VANADIUM AND URANIUM SEPARATION FROM HYDROCHLORIC ACID SOLUTIONS USING ANIONITES
N64-31419 23-07

PAPER ELECTROCHROMATOGRAPHIC SEPARATION OF RHENIUM AND MOLYBDENUM IN HYDROCHLORIC ACID
N64-31576 23-07

HYDRODYNAMIC EQUATION
FORECASTING ATMOSPHERIC PRESSURE FIELDS USING HYDRODYNAMIC EQUATIONS
JPRS-22648 N64-12903 04-21

SUPERSONIC FLOW PAST WEDGE, HYDRODYNAMIC EQUATIONS WITH RADIATION, AND PROTON SYNCHROTRON THEORY
FTD-TT-62-958/1&2 N64-20363 13-01

HYDRODYNAMIC EQUATIONS INCORPORATING RADIATION EFFECTS
N64-20365 13-11

HYDRODYNAMIC EQUATIONS OF RAREFIED PLASMA FOR CASES OF CYLINDRICAL SYMMETRY
N64-23482 16-24

SOLUTION OF HYDRODYNAMIC EQUATIONS FOR FLAME FRONT CHEMICAL REACTIONS
N64-23654 16-11

HYDRODYNAMIC EQUATIONS FOR HORIZONTAL WIND EFFECTS ON DISPERSION AND AMPLITUDE OF ATMOSPHERIC ACOUSTI GRAVITY WAVES
RAD-TR-64-33 N64-33930 24-23

HYDRODYNAMIC STABILITY
HYDRODYNAMIC STABILITY OF TWO-DIMENSIONAL UNSTEADY INCOMPRESSIBLE LAMINAR BOUNDARY LAYER
AD-600102 N64-21363 14-11

GALERKIN METHOD APPLIED TO SELF-ADJOINT, NON-POSITIVE DEFINITE EIGENVALUE PROBLEMS IN HYDRODYNAMIC STABILITY
RPI-MATH-REP.-66 N64-22713 15-11

EVOLUTION OF H II REGION AROUND EARLY STARS, FORMATION OF PERIPHERAL STRUCTURE IN DIFFUSE NEBULA, AND HYDRODYNAMIC STABILITY
STL-TRANS-79 N64-26450 18-05

HYDRODYNAMIC STABILIZATION OF PLASMA IN TOROIDAL SYSTEMS
MATT-279 N64-26457 18-24

HYDRODYNAMICS
SA FLOW THEORY
SA FLUID MECHANICS
SA HYDRAULICS
SA KROOK EQUATION
SA MECHANICS /GEN/
CF HYDRODYNAMIC STABILITY
ELASTOHYDRODYNAMIC LUBRICATION IN ROLLING CONTACT BEARING FATIGUE
NASA-RP-43 N64-10175 01-33

EQUATION OF STATE FOR ELASTIC, ELASTIC-PLASTIC, & HYDRODYNAMIC FLOW
UCRL-7322 N64-11095 02-23

HYDRODYNAMIC THEORY OF HEAT EXCHANGE APPLIED TO TRANSONIC FLOW
N64-11969 03-11

SOVIET SCIENCE - OPTIMAL CONTROL, RADICALS, RESONANCE SPECTRA, DETRITUS ANALYSIS, BONE REGENERATION, & MAGNETIC FIELD EFFECT ON BIOLOGY
JPRS-20231 N64-12493 04-01

HYDRODYNAMIC PHASE OF AXISYMMETRIC HYPERVELOCITY IMPACT
GA-3827 N64-13522 04-23

HYDRODYNAMICS OF SHIP SLAMMING
AD-425897 N64-13617 05-11

NUMERICAL TECHNIQUE FOR SOLUTION OF MULTIDIMENSION HYDRODYNAMIC PROBLEMS
RM-2628-PR N64-14005 05-20

HYDRODYNAMIC PRESSURE FIELD FORECASTING AT ATMOSPHERIC MIDLEVEL FOR ENTIRE EARTH
JPRS-23108 N64-14535 06-21

HYDRODYNAMICS OF STELLAR CORONAS AND WINDS - INTEGRATION OF MOMENTUM EQUATION
N64-16773 08-28

PRESSURE, TEMPERATURE, AND FILM THICKNESS BETWEEN TWO LUBRICATED ROLLING AND SLIDING CYLINDERS - THERMOELASTOHYDRODYNAMICS
MTI-63TR48 N64-16792 08-17

HYDRODYNAMIC CHARACTERISTICS OF TRANSCAVITATING AND SUPERCAVITATING HYDROFOIL MODELS
XAR-A-45 N64-16862 08-03

SOLUTION TO HYDRODYNAMIC PROBLEMS ON LAMINAR AND TURBULENT FLOW - FLUID MECHANICS
AD-430718 N64-17472 09-11

HYDRODYNAMIC PHASE OF HIGH VELOCITY SOLID-SOLID IMPACT INTERACTION WITH ATTENTION TO LATE STAGE EQUIVALENCE
GA-5119 N64-19130 11-23

DIFFERENTIAL EQUATIONS FOR HYDRODYNAMIC PROBLEM OF SHOCK WAVES AND TWO RAREFACTION WAVES MOVING IN OPPOSITE DIRECTIONS
LA-3007 N64-19282 11-24

HYDRODYNAMICS OF TURBULENT FLOW OF AIR IN GAP ROTATING COAXIAL CYLINDERS
FTD-TT-63-18/1&2 N64-19741 12-11

HYDRODYNAMIC THEORY OF DETONATION OF CONDENSED EXPLOSIVES
FTD-TT-63-1112/1&2 N64-19759 12-26

HYDRODYNAMICS AND AERODYNAMICS OF OSCILLATING WING PROPULSION IN UNIFORM FLOW
AD-436778 N64-20137 13-03

WAVE DISPERSION IN COLD MAGNETOPLASMA FROM HYDRODYNAMIC TO WHISTLER FREQUENCIES
N64-20433 13-24

HYDRODYNAMICS OF LOW ASPECT RATIO WING
N64-20777 14-02

HYDRODYNAMIC FORCES AND MOMENTS ON SHIP HULLS IN MOTION WITH DRIFT ANGLE AND ANGULAR VELOCITY
N64-20778 14-11

ELASTOHYDRODYNAMIC LUBRICATION FOR ROLLING CONTACT BEARINGS, GEARS, AND CAMS
MTI-64TR6 N64-21121 14-17

HYDRODYNAMIC EFFECTS OF LOW ENERGY SPHERICAL UNDERWATER EXPLOSIONS
UTIAS-96 N64-21166 14-11

NUMERICAL SOLUTION TO THERMAL-ELASTOHYDRODYNAMIC LUBRICATION OF ROLLING AND SLIDING CYLINDERS
MTI-64TR7 N64-21223 14-17

HYDRODYNAMICS OF RELAXING MEDIA & THERMODYNAMICS OF NONEQUILIBRIUM FLOW
N64-23652 16-11

TWO-DIMENSIONAL HYDRODYNAMIC HOT SPOT FORMED BY SHOCK WAVE INTERACTION WITH SPHERICAL VOID IN NITROMETHANE
LA-3077 N64-23890 16-11

HYDRODYNAMIC FORCES FROM SLOSHING LIQUID PROPELLANTS IN MISSILE FUEL TANKS
ONERA-TP-136 N64-24004 16-11

PROPELLERS, CAVITATION, SHIP MANEUVERABILITY, AND HYDRODYNAMICS RESEARCH IN SWEDEN

SSPA-AR-8 N64-24961 17-10

HYDRODYNAMICS OF FREE JET IN FLUID JET AMPLIFIER
N64-25263 17-11

NONSTEADY HYDRODYNAMIC CHARACTERISTICS OF SUPERCAVITATING HYDROFOIL UNDER FREE SURFACE
TR-463-2 N64-25703 17-04

COMPUTER CODE FOR SIMULATING INTERACTION BETWEEN REENTRY VEHICLE AND SHOCK WAVE FROM NUCLEAR EXPLOSION - HYDRODYNAMICS
TO-B-64-10 N64-25958 18-11

SHIP STABILIZING SYSTEMS, PURE FLUID SYSTEMS, AND PROJECTED DEVELOPMENTS IN MECHANICS, AERODYNAMICS, THERMODYNAMICS, AND HYDRODYNAMICS
DME/NAE-1964 /1/ N64-26284 18-06

HYDRODYNAMICS OF TWO-PHASE HEAT TRANSFER WITH GAS INJECTION THROUGH POROUS BOUNDARY SURFACE
ANL-6862 N64-27654 19-13

HYDRODYNAMICS OF CAVITATION AND MECHANISMS OF CAVITATION DAMAGE
TR-233-1 N64-27853 19-18

HYDRODYNAMIC EQUATIONS OF GASEOUS IONIZATION
N64-28186 20-11

FLOW PAST HYDRODYNAMIC FEATURE ON BOUNDARY OF TWO FLUIDS OF DIFFERENT DENSITIES
N64-28476 20-11

HYDRODYNAMICS OF EXPLOSIONS - SHOCK WAVE PROPAGATION, EXPLOSION IN UNBOUNDED MEDIUM, BOUNDARY PROBLEMS, & PROBLEM OF EXTERNAL FORCES
FTD-TT-63-381/1&2, N64-29321 21-11

ELASTOHYDRODYNAMICS - PRESSURE AND SURFACE TEMPERATURE DISTRIBUTION AND DEFORMATION PROFILE IN CONCENTRATED LUBRICATED ROLLING-SLIDING CONTACT
MTI-64TR37 N64-29349 21-17

HYDRODYNAMIC LONG RANGE WEATHER FORECASTING
JPRS-26176 N64-29666 21-21

HYDRODYNAMIC THEORY OF CLIMATE AND LONG RANGE WEATHER FORECASTING N64-29667 21-21

RESEARCH PROJECTS IN MECHANICS, HYDRODYNAMICS, AERODYNAMICS AND THERMODYNAMICS
DME/NAE 1963/4/ N64-30369 22-17

HYDRODYNAMIC CHARACTERISTICS OF BASE-VENTED AND SUPERCAVITATING STRUTS FOR HYDROFOIL SHIPS - PHOTOGRAPHS AND GRAPHS
REPT.-2796, VOL. II N64-30593 22-11

HYDRODYNAMIC CHARACTERISTICS OF BASE-VENTED AND SUPERCAVITATING STRUTS FOR HYDROFOIL BOATS
REPT.-2796, VOL. I N64-30597 22-11

NORMAL AND LONGITUDINAL HYDRODYNAMIC FORCE COEFFICIENTS FOR SYSTEMATIC SERIES OF TEE HYDROFOILS
DTMB-1801 N64-30918 22-11

HYDRODYNAMICS OF SUPERCAVITATING HYDROFOILS
XAR-A-45 N64-31304 22-03

HYDRODYNAMIC FORCE AND SPRAY TESTS ON WING END PLATES PENETRATING WATER SURFACE
GD/C-64-100 N64-32463 23-11

RADIATIVE HYDRODYNAMICS AND HEAT TRANSFER RELATING TO REENTRY VEHICLES
KN-684-64-12 N64-33001 24-13

APPROXIMATION TECHNIQUES FOR PROBLEMS INVOLVING RADIATIVE TRANSFER OF ENERGY AND HYDRODYNAMIC PROCESSES
DASA-1522 N64-33709 24-11

HYDROFLUORIC ACID
RAMAN AND INFRARED SPECTROSCOPY DETERMINATION OF PROTACTINIUM SPECIES IN PROTACTINIUM-HYDROFLUORIC ACID SYSTEM N64-15657 07-07

BEHAVIOR OF PROTACTINIUM IN HYDROCHLORIC-HYDROFLUORIC ACID SOLUTIONS N64-15662 07-07

DETERMINATION OF YTTRIUM IN TANTALUM-YTTRIUM ALLOYS - ADDITION OF HYDROFLUORIC ACID TO ALLOY SAMPLES TO DISSOLVE TANTALUM AND CONVERT YTTRIUM TO INSOLUBLE FLUORIDE
LA-3123 N64-33467 24-07

HYDROFOIL
SA HYDROPLANE
CF SHIP
MASS-DENSITY RATIO IN HYDROFOIL FLUTTER PREDICTION
ADR-06-12-62.1 N64-10263 01-04

VENTILATION INCEPTION ON SURFACE-PIERCING DIHEDRAL HYDROFOIL WITH PLANE-FACE WEDGE SECTION
AD-423951 N64-12239 03-11

FORCES PRODUCING SELF-LOCOMOTION IN RIGID, SINGLE-HINGED, & DOUBLE-HINGED SWIMMING HYDROFOILS
NOTS-TP-3342 N64-13649 05-11

LIFT AND DRAG FORCES ON SUPERVENTILATED HYDROFOILS OF FINITE SPAN BELOW FREE SURFACE
PR-66 N64-14767 06-03

OSCILLATORY LIFT & MOMENT DISTRIBUTION OF SURFACE-PIERCING FLEXIBLE CANTILEVER SUBCAVITATING HYDROFOILS
AD-422754 N64-15595 07-03

CAVITATION FLOW PAST HYDROFOILS WITH LARGE CAMBER AT ARBITRARY ANGLES OF ATTACK
T.R. 17 N64-15944 07-03

HYDRODYNAMIC CHARACTERISTICS OF TRANSCAVITATING AND SUPERCAVITATING HYDROFOIL MODELS
XAR-A-45 N64-16862 08-03

ZERO-DIHEDRAL SUPERCAVITATING HYDROFOILS WITH SPLIT TRAILING-EDGE FLAPS
GD/C-63-210 N64-17337 09-03

EXPERIMENTAL DATA OF SUPERCAVITATING HYDROFOILS WITH FLAPS
GD/C-63-210, APP. A N64-17338 09-03

LOW DRAG BASE VENTED HYDROFOILS WITH CHORDWISE PRESSURE DISTRIBUTION FOR OPERATION NEAR FREE SURFACE
AD-432976 N64-17485 09-03

HEAVE AND PITCH RESPONSE OF FULLY WETTED SURFACE-PIERCING DIHEDRAL HYDROFOIL IN IRREGULAR SEAS
AD-436567 N64-18911 11-03

WATER TUNNEL OBSERVATIONS ON PLANO-CONVEX HYDROFOIL FLOW UNDER NONCAVITATING AND CAVITATING CONDITIONS
E-79-6 N64-20567 13-02

PERFORMANCE CHARACTERISTICS OF THREE TYPES OF SUPERCAVITATING HYDROFOILS WITH AND WITHOUT FORCED VENTILATION
DTMB-1828 N64-21103 14-03

LIFT AND DRAG MEASUREMENTS ON SUPERCAVITATING HYDROFOIL
TR-343-1 N64-21357 14-03

FLUTTER ANALYSIS FOR HYDROFOIL STRUTS WITH LOW SWEEP ANGLES
DA-NONR-3989.3 N64-21515 15-03

AERONAUTICAL ENGINEERING AND HYDROFOIL DEVELOPMENT
AGARD-473 N64-22059 15-34

FLUID MECHANICS - CAVITY PRODUCTION AND FLOW FIELD DUE TO CAVITATING HYDROFOIL UNDER FREE SURFACE
TR-001-12 N64-22535 15-11

PURE FLUID HYDROFOIL CONTROL SYSTEM
N64-23828 16-11

MOTION MEASURING INSTRUMENTATION FOR HYDROFOIL CRAFT
MPD-47-135/R/ N64-24338 17-15

NOISE REDUCTION IN HYDROFOIL BOATS AND SHIP HULLS
JPRS-24818 N64-24579 17-34

NOISE REDUCTION ON DIESEL ENGINE DRIVEN HYDROFOIL BOAT N64-24580 17-34

FORCE, MOMENT, AND HINGE-MOMENT CHARACTERISTICS OF SURFACE-PIERCING DIHEDRAL HYDROFOILS
REPT.-964 N64-25302 17-03

HYDROFOIL INSTABILITY AT LOW MASS DENSITY RATIOS
AD-437679 N64-25575 17-11

FLUTTER OF FULLY SUBMERGED SUBCAVITATING HYDROFOIL
TR-4 N64-25634 17-03

NONSTEADY HYDRODYNAMIC CHARACTERISTICS OF SUPERCAVITATING HYDROFOIL UNDER FREE SURFACE
TR-463-2 N64-25703 17-04

HYDROELASTIC STABILITY OF PARTIALLY CAVITATED HYDROFOILS BY APPLICATION OF QUASI-STEADY FLOW
REPT.-64-10 N64-27708 19-11

STRUCTURAL VIBRATION CHARACTERISTICS AND RESONANT FREQUENCIES FOR HYDROFOIL CONFIGURATIONS
AD-602544 N64-28286 20-33

CAVITATION EROSION RESISTANCE AND RELATED MECHANICAL PROPERTIES OF HYDROFOIL STRUCTURAL ALLOYS AND COATINGS
USNASL-9110-P-14 N64-29578 21-18

NORMAL AND LONGITUDINAL HYDRODYNAMIC FORCE COEFFICIENTS FOR SYSTEMATIC SERIES OF TEE HYDROFOILS
DTMB-1801 N64-30918 22-11

UNSTEADY CAVITY FLOW ABOUT THIN HYDROFOILS
TR-119-5 N64-31028 22-11

HYDRODYNAMICS OF SUPERCAVITATING HYDROFOILS
XAR-A-45 N64-31304 22-03

LINEARIZED THEORY OF FLAT TWO-DIMENSIONAL PLANING HYDROFOIL IN CHANNEL OF FINITE DEPTH
REPT.-110.2 N64-31308 22-03

SUPERCAVITATING HYDROFOILS - CASCADE FLOW, CONVECTIVE HEAT TRANSFER, WALL EFFECTS, AND PRESSURE DISTRIBUTION N64-31429 23-11

HYDROFOIL PROFILE CAVITATION TESTS TO ACCELERATE FLOW CASCADE
REPT.-142 N64-31431 23-11

TWO-DIMENSIONAL THEORY OF WALL AND BOUNDARY EFFECTS ON SUPERCAVITATING HYDROFOIL PERFORMANCE
REPT.-145 N64-31434 23-11

SUPERCAVITATING FLOW THROUGH ARBITRARY FORM HYDROFOIL
REPT.-146 N64-31435 23-11

COMPUTER PROGRAM SUBROUTINES FOR INVERSE PROBLEM OF LINEARIZED FULLY CAVITATING HYDROFOIL THEORY
RM-3563-PR N64-31971 23-20

NEOPRENE PROTECTIVE COATINGS FOR HYDROFOILS
TM-1 N64-32461 23-17

HYDROELASTIC FLUTTER OF FINITE SPAN CAVITATING HYDROFOILS
REPT.-64-12 N64-32584 23-33

LINEARIZED THEORY FOR SUPERCAVITATING HYDROFOIL OPERATION IN FLUID OF FINITE DEPTH
TR-119-7 N64-33651 24-11

HYDROFOIL BOAT
HYDRODYNAMIC CHARACTERISTICS OF BASE-VENTED AND SUPERCAVITATING STRUTS FOR HYDROFOIL SHIPS - PHOTOGRAPHS AND GRAPHS
REPT.-2796, VOL. II N64-30593 22-11

HYDRODYNAMIC CHARACTERISTICS OF BASE-VENTED AND SUPERCAVITATING STRUTS FOR HYDROFOIL BOATS
REPT.-2796, VOL. I N64-30597 22-11

HYDROGEN
SA DEUTERIUM
SA LIQUID HYDROGEN
SPECTROGRAPHIC OBSERVATION OF HYDROGEN IN EARTHS ATMOSPHERE N64-10285 01-12

EXHAUST NOZZLE RECOMBINATION OF HYDROGEN FUEL IN SUBSONIC RAMJET ENGINES AT HYPERSONIC SPEEDS
NASA-RP-56 N64-10291 01-02

EFFECT OF HYDROGEN ON CREEP PROPERTIES OF ANNEALED ZIRCALOY-2
AECL-1826 N64-10378 01-18

SHOCK TESTING FOR EFFECT OF HYDROGEN ON TITANIUM ALLOYS
JPRS-17990 N64-10730 02-18

STATIC MOISTURE REMOVAL SYSTEM FOR CAPILLARY HYDROGEN-OXYGEN FUEL CELL
NASA-CR-52652 N64-11120 02-06

FUEL CELLS - ELECTROCHEMICAL COMBUSTION, HYDROGEN-OXYGEN ELEMENTS & BATTERIES
JPRS-22148 N64-11275 02-06

GENERAL EXPRESSION FOR EXPANSION COEFFICIENTS CONNECTING STARK AND FIELD-FREE WAVE FUNCTIONS FOR HYDROGEN
UCRL-7493 N64-11581 03-23

CORRELATION OF PRESSURE-DENSITY-TEMPERATURE AND SPECIFIC HEAT DATA FOR PARAHYDROGEN
NBS-R-45 N64-11637 03-19

NEUTRAL HYDROGEN IN EARTH ATMOSPHERE AND INTERPLANETARY SPACE
JPRS-22331 N64-11785 03-12

PERMEABILITY OF HYDROGEN THROUGH VARIOUS METALS & PERFORMANCE OF SOLAR POWERED CONVERSION SYSTEM - SUNFLOWER
NASA-CR-52962 N64-11800 03-06

HYDROGEN-OXYGEN ELECTROLYTIC REGENERATIVE FUEL CELLS
NASA-CR-55059 N64-11809 03-06

ROCKET PERFORMANCE FOR ISENTROPIC PROCESS OF CHEMICALLY FROZEN HYDROGEN THROUGH CONVERGING-DIVERGING NOZZLE
NASA-TN-D-2080 N64-11904 03-27

GENERALIZED VISCOUS MULTICOMPONENT-MULTIPHASE FLOW WITH APPLICATION TO LAMINAR & TURBULENT HYDROGEN JETS
AIAA PAPER-63-507 N64-12017 03-11

HIGH STRENGTH STEEL - HYDROGEN CAUSED EMBRITTLEMENT AND FAILURE
DMIC-MEMO-180 N64-12309 03-18

ABSORPTION OF NITROGEN, HYDROGEN, AND CARBON GASES BY NIOBIUM TANTALUM
FTD-TT-62-1764/1&2 N64-12313 03-23

GAS, LIQUID, & CHEMICAL SOURCES OF HYDROGEN FOR USE WITH FUEL CELL BATTERIES - BIBLIOGRAPHY
TR-1168 N64-12661 04-19

RHEOLOGIC & THERMODYNAMIC PROPERTIES OF SOLID AND SLUSH HYDROGEN
AD-423643 N64-13081 04-11

LATTICE HEAT CAPACITY AND THERMODYNAMIC PROPERTIES OF SOLID HYDROGEN AT SMALL MOLAR VOLUME
UCRL-10757 N64-13212 04-19

PION-PRODUCTION RATE IN HYDROGEN AND BERYLLIUM
SLAC-21 N64-13380 04-23

KINETICS OF ELEMENTARY REACTIONS OF HYDROGEN AND FLUORINE - SQUID PROJECT N64-13485 05-24

IODIDE REFINING OF ZIRCONIUM AND ZIRCONIUM IODIDE FOR REDUCTION OF NONMETALLIC IMPURITIES - CARBON, OXYGEN, NITROGEN, AND HYDROGEN N64-13727 05-17

HYDROGEN AND NITROGEN EFFECT ON CORROSION

RESISTANCE OF ZIRCONIUM METAL IN WATER VAPOR
N64-13728 05-07

INPUT AND OUTPUT COUPLING CAVITY STRUCTURE IN ELECTRON BEAM-HYDROGEN PLASMA SYSTEM
N64-13794 05-24

STEAM-HYDROGEN SYSTEM - HEAT CONTENT AND HUMIDITY DIAGRAM
RSIC-106 N64-13813 05-23

BIOCHEMICAL FUEL CELLS - ELECTRO-OXIDATION OF HYDROGEN AND FORMIC ACID
QPR-5 N64-13968 05-16

PARAMETER AND GRAPHIC COMPARISON OF TWO MELTING EQUATIONS FOR GASES AND METALS - HYDROGEN, OXYGEN, SODIUM, & POTASSIUM
NASA-CR-55331 N64-14291 06-23

PARA-ORTHO HYDROGEN CONVERSION BY CATALYSTS INCLUDING RADIOACTIVE MATERIALS
RTD-TDR-63-4106 N64-14308 06-19

FLUX AND ENERGY SPECTRUM MEASUREMENTS OF HYDROGEN, HELIUM, AND HEAVY NUCLEI FROM SOLAR FLARES
NASA-RP-19 N64-14857 06-28

REACTION RATES OF HYDROGEN, AMMONIA, & METHANE IN MIXTURES OF ATOMIC & MOLECULAR OXYGEN
NASA-RP-120 N64-14860 06-07

STEADY-STATE ANALYSIS OF LAMINAR INSTABILITY PROBLEM DUE TO HEATING PARA-HYDROGEN IN LONG, SLENDER TUBES
NASA-TN-D-2084 N64-14939 06-11

GENERATION AND UTILIZATION OF HYDROGEN BY MICRO-ORGANISMS - BIOCHEMICAL FUEL CELLS
AD-428050 N64-15090 07-06

PHYSICAL PROPERTIES OF PALLADIUM CONTAINING ADSORBED HYDROGEN N64-15110 07-19

INTERACTION ENERGY LEVELS AND TRANSPORT COEFFICIENTS OF LITHIUM-HYDROGEN AND OXYGEN-HYDROGEN GAS MIXTURES AT HIGH TEMPERATURES
N64-15275 07-23

HYDROGEN CONCENTRATION AND HYDRIDE MORPHOLOGY EFFECTS ON TENSILE PROPERTIES OF ANNEALED AND QUENCHED ZIRCALOY
WAPD-TM-275 N64-15392 07-18

ELASTIC SCATTERING OF CHARGED K-MESON PARTICLE IN HYDROGEN BUBBLE CHAMBER
UCRL-11155 N64-15400 07-23

ELECTRIC CELL RESEARCH - HYDROGEN ELECTRODES, SILVER OXIDE ELECTRODES, AND OXYGEN ELECTRODES FOR REGENERATIVE FUEL CELLS
NASA-CR-55664 N64-15536 07-06

MOLTEN CARBONATE HYDROGEN FUEL CELLS
TI-08-63-108 N64-15562 07-06

PRODUCTION OF OXYGEN-FLUORINE COMPOUNDS BY COBALT AND HYDROGEN BOMBARDMENT
AD-428142 N64-15688 07-07

AIR, NITROGEN, AND HYDROGEN GAS-SIDE CONVECTIVE HEAT TRANSFER TO NUCLEAR ROCKET NOZZLES USING SHOCK TUBE TECHNIQUES
NASA-CR-55712 N64-15893 07-13

PRESSURE, TEMPERATURE, PLATINUM-PALLADIUM CATALYST, AND ELECTROLYTIC PURITY EFFECTS ON HYDROGEN AND OXYGEN ELECTRODES
NASA-CR-55299 N64-15905 07-06

PERFORMANCE OF HYDROGEN AND NONCRYOGENIC GASES OF AMMONIA, LITHIUM-HYDRIDE, METHANE, ETHANE, & WATER AS ELECTROTHERMAL THRUSTOR PROPELLANTS
NASA-TN-D-2253 N64-16120 08-27

VAPOR PRESSURE CONTROL TECHNIQUE FOR REMOVAL OF BYPRODUCT WATER FROM HYDROGEN-OXYGEN FUEL CELLS
NASA-CR-55778 N64-16274 08-06

PARA-ORTHO SHIFT OF HYDROGEN ENDOTHERMIC HEAT CONVERSION
ASD-TDR-62-833, PT. 2 N64-16608 08-19

TURBULENT MIXING PROCESS BETWEEN CARBON DIOXIDE AND HYDROGEN CENTRAL JETS EXHAUSTING INTO MOVING CONCENTRIC AIRSTREAM
PIBAL-789 N64-16657 08-11

SPACE STORABILITY OF PRESSURIZED NITROGEN AND HYDROGEN
NASA-CR-55841 N64-16714 08-06

MOLECULAR ORBITAL STUDY OF EXCITED STATES OF HYDROGEN MOLECULE
NASA-CR-53081 N64-16752 08-23

HYDROGEN-SILVER OXIDE REGENERATIVE FUEL CELLS
NASA-CR-55849 N64-16766 08-06

HYDROGEN-SILVER OXIDE REGENERATIVE FUEL CELLS
NASA-CR-55848 N64-16767 08-06

PHOTOIONIZATION CROSS SECTION OF MOLECULAR HYDROGEN N64-17009 09-23

HYDROGEN GENERATOR FOR HYDROGEN-OXYGEN FUEL CELL
N64-17397 09-06

HYDROGEN-OXYGEN FUEL CELLS FOR SPACE MISSIONS
N64-17401 09-06

HYDROGEN-OXYGEN SOLID-ELECTROLYTE FUEL CELL BATTERIES FOR SPACE APPLICATION
N64-17410 09-06

NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY - LONG RANGE PHOSPHORUS-HYDROGEN SPIN-SPIN COUPLING
AROD-2276-6 N64-17482 09-23

REGENERATIVE HYDROGEN-OXYGEN FUEL CELL
NASA-CR-55847 N64-17682 09-06

HYDROGEN DETECTOR
NASA-CR-55954 N64-17686 09-15

HYDROGEN-HELIUM LIQUID-VAPOR EQUILIBRIUM
NASA-CR-53343 N64-17791 09-19

IONIZATION OF HYDROGEN GAS AT LOW PRESSURE BY RADIO FREQUENCY FIELD
AFCRL-63-948 N64-17863 10-23

CONVECTIVE ENERGY TRANSFER BETWEEN PARALLEL PLATES OF PARTIALLY IONIZED MONATOMIC HYDROGEN AT DIFFERENT TEMPERATURES
ATN-64/9232/-1 N64-17896 10-24

TRITIUM, HYDROGEN, AND NITROGEN CONVERSION
NASA-CR-53424 N64-18121 10-12

METHOD FOR COMPUTING REACTION RATES FOR HYDROGEN-AIR MIXTURES IN RAMJET ENGINE N64-18137 10-24

VIBRATIONAL EXCITATION OF NITROGEN, CARBON MONOXIDE, AND HYDROGEN BY ELECTRON IMPACT
AD-433190 N64-18267 10-23

SLOW NEUTRON SCATTERING CROSS SECTIONS OF MOLECULAR HYDROGEN AND DEUTERIUM
NASA-CR-54001 N64-18279 10-23

THERMODYNAMIC PROPERTIES AND MOLLIER DIAGRAM FOR HYDROGEN AT HIGH TEMPERATURES
NASA-SP-3002 N64-18507 10-19

MOTION EQUATIONS FOR HYDROGEN AND HELIUM IONIC DIFFUSION IN GEOMAGNETIC FIELD
AFCRL-64-75 N64-18635 11-12

FREQUENCY RANGES FOR EXISTENCE OF WAVES IN COLD, COLLISIONLESS, HYDROGEN PLASMA
NASA-TN-D-2273 N64-18737 11-24

ELECTROMAGNETIC WAVE PROPAGATION IN COLD, COLLISIONLESS ATOMIC HYDROGEN PLASMA
NASA-TN-D-2071 N64-18954 11-24

HEAT TRANSFER AND AVERAGE FRICTION COEFFICIENTS

FOR HYDROGEN AND HELIUM FLOWING IN TUNGSTEN TUBE
NASA-TN-D-2280 N64-18962 11-13

RADIATIVE TRANSITION PROBABILITIES IN HYDROGEN
UCRL-7088, REV. 1 N64-18996 11-24

MONTE CARLO METHOD APPLIED TO HYDROGEN DIFFUSION IN THERMOSPHERE
NASA-RP-159 N64-19149 11-12

EFFECT OF CARBON CONTENT ON DIFFUSION OF HYDROGEN IN CARBON STEELS
JPRS-24383 N64-19238 11-18

RADIATION EFFECT ON NITROUS OXIDE-HYDROGEN REACTION AND ULTRASONIC INSPECTION OF SHEET STEEL
N64-19264 11-01

RADIATION-INDUCED CHAIN REACTION BETWEEN NITROUS OXIDE AND HYDROGEN IN AQUEOUS SOLUTIONS
N64-19265 11-07

PERFORMANCE OF TWO TYPES OF RESISTANCE-HEATED HYDROGEN THRUSTORS - TUBULAR AND WIRE-COIL HEAT EXCHANGERS
NASA-TN-D-2281 N64-19293 11-27

COMPILING OBJECTIVE FORECASTS FOR MAPS OF MEAN VALUE OF HIGH ALTITUDE HYDROGEN IN SYNOPTIC PERIOD
N64-19434 12-21

INTENSITY OF 4-0 QUADRUPOLE BAND OF MOLECULAR HYDROGEN N64-19581 12-23

MULTICOMPONENT MULTIPHASE VISCOUS FLOW WITH APPLICATIONS TO LAMINAR AND TURBULENT JETS OF HYDROGEN
NASA-CR-53509 N64-19985 12-11

EFFECTS OF CONCENTRATION AND VIBRATIONAL RELAXATION ON INDUCTION PERIOD OF OXYGEN AND HYDROGEN CHEMICAL REACTIONS
NASA-TM-X-52022 N64-20548 13-23

RADIATION MEASUREMENTS OF COMBUSTION OF LIQUID OXYGEN JETS IN HIGH PRESSURE HYDROGEN ATMOSPHERE
NASA-TM-X-52023 N64-20576 13-26

DERIVATION OF SECOND AND THIRD VIRIAL COEFFICIENTS FOR COMPUTATION OF THERMODYNAMIC AND TRANSPORT PROPERTIES OF HYDROGEN N64-20595 13-23

NITROGEN AND HYDROGEN IMPURITIES IN LIQUID METAL CORROSION OF SOLID METALS N64-20790 14-07

HYDROGEN EMBRITTLEMENT OF ALPHA-TITANIUM ALLOYS DURING CATHODE POLARIZATION N64-20916 14-18

CURRENT DENSITY EFFECT ON HYDROGEN EMBRITTLEMENT AND CORROSION OF TITANIUM ALLOYS
N64-20917 14-18

HYDROGEN EMBRITTLEMENT AND CORROSION OF TITANIUM ALLOYS UNDER STRESS N64-20918 14-18

PRESSURE OSCILLATIONS INDUCED BY FORCED CONVECTION HEAT TRANSFER TO TWO-PHASE AND SUPERCRITICAL HYDROGEN
LAMS-3070 N64-21055 14-13

RADIOCHEMICAL EXCHANGE TECHNIQUES FOR DETECTING HYDROGEN VAPORS IN SPACE VEHICLES
APL-TDR-64-51 N64-21107 14-15

CRYOSORPTION PUMPING OF HYDROGEN WITH MOLECULAR SIEVES OR CHARCOAL AS ADSORBENTS
AEDC-TDR-64-100 N64-21290 14-23

DEPOSITION OF TUNGSTEN BY HYDROGEN REDUCTION OF TUNGSTEN HEXAFLUORIDE IN VAPOR PHASE
N64-21347 14-18

TECHNIQUE FOR MEASURING ISOTOPICALLY RESOLVED ENERGY SPECTRA OF HIGH ENERGY PARTICLES - HYDROGEN AND HELIUM ISOTOPES
ATN-64/9234/-2 N64-21368 14-23

ELECTROCHEMICAL STUDY OF CATALYTIC ACTIVITY ON HYDROGEN ELECTRODE IN FUEL CELL
AD-432973 N64-21398 14-07

PRODUCTION ENGINEERING MEASURE FOR PHASE II SUPER POWER HYDROGEN THYRATRON TUBE
AD-431962 N64-21549 15-09

FLAME PROPAGATION IN MIXTURE OF HYDROGEN AND CHLORINE
FTD-TT-62-1687/1&2&4 N64-21647 15-26

OBTAINING ELEMENTAL BORON BY HYDROGEN REDUCTION OF BORON HALIDES
FTD-TT-62-1638/1&2&4 N64-21656 15-07

COMPILATION OF THERMODYNAMIC PROPERTIES AND FUNCTIONS OF PARA HYDROGEN AT LOW TEMPERATURE AND HIGH PRESSURE
R-315 N64-21843 15-13

PROFILES OF AURORAL HYDROGEN EMISSION OBTAINED BY SPECTROGRAPH N64-21880 15-12

SPECTROELECTROPHOTOMETRY OF HYDROGEN EMISSION IN AURORAE N64-21898 15-12

CATALYTIC IGNITION OF HYDROGEN-OXYGEN PROPELLANT COMBINATION
RR-63-9 N64-21901 15-26

HYDROGEN CELL AND ION CHAMBER FOR OBTAINING PHOTOELECTRIC DATA ON RESONANCE SCATTERING AT LYMAN ALPHA LINE
NASA-TN-D-2148 N64-22018 15-23

EFFECT OF REACTOR IRRADIATION UPON HYDROGEN ADSORPTION BY ALUMINUM OXIDE CATALYST
BNL-845/T-332/ N64-22045 15-07

MATHEMATICAL EQUATIONS FOR DIFFUSION COEFFICIENT OF HYDROGEN PERMEATION THROUGH METAL STRIPS
QR-1 N64-22051 15-07

PERMEATION OF HYDROGEN THROUGH EMITTER SURFACE OF THERMIONIC CONVERTER
USAELRDL-2431 N64-22098 15-06

ELECTROCHEMISTRY OF FUEL CELL ELECTRODES - HYDROGEN EVOLUTION AT DROPPING INDIUM AMALGAM ELECTRODE
TM-10 N64-22119 15-06

LAMINAR BOUNDARY LAYER WITH HYDROGEN INJECTION - MULTICOMPONENT DIFFUSION AND TRANSPORT PROPERTIES
ARL-64-40 N64-22300 15-11

HYDROGEN, HELIUM, AMMONIA, AND ARGON GAS FLOW THROUGH ELECTRIC ARC HOT GAS CONTAINMENT LIMITS
ARL-64-49 N64-22306 15-24

HYDROGEN-INDUCED DELAYED BRITTLE FAILURES OF HIGH STRENGTH STEEL
DMIC-196 N64-22452 15-33

THERMAL VALUES AND EQUATION OF STATE FOR HYDROGEN
FTD-TT-62-1569/1&2&4 N64-22625 15-13

MECHANISM AND LIMITS OF SPONTANEOUS CHAIN IGNITION OF HYDROGEN-OXYGEN MIXTURES IN SHOCK WAVES
JPRS-25103 N64-22737 16-23

EFFECTS OF HIGH PRESSURE, HIGH TEMPERATURE HYDROGEN ON STEEL
DMIC-202 N64-22917 16-18

EFFECT OF HYDROGEN ON HIGH TEMPERATURE FLOW AND FRACTURE CHARACTERISTICS OF METALS
ORNL-3600 N64-23015 16-18

PERMEATION OF HYDROGEN THROUGH MATERIALS FOR SUNFLOWER POWER SYSTEM
NASA-CR-54004 N64-23206 16-18

KINETICS AND THERMODYNAMICS OF CHLORINE-HYDROGEN MIXTURE COMBUSTION
FTD-TT-62-1688/1&2 N64-23476 16-26

KINETICS OF THERMAL REACTION OF CHLORINE-HYDROGEN MIXTURE - COMBUSTION N64-23477 16-26

HYDROGEN COUPLING IN METHYLENIMINO COMPOUNDS
NASA-CR-56464 N64-23932 16-23

COSMIC RAY HYDROGEN AND HELIUM NUCLEI DURING SOLAR QUIET TIME
NASA-RP-203 N64-24083 16-29

MEASUREMENTS AND IMPROVEMENTS OF TWO HYDROGEN MASERS
NASA-CR-56549 N64-24103 16-25

FREQUENCY STABILITY & PRECISION OF HYDROGEN MASER
NASA-CR-56550 N64-24108 16-25

RELATIVE ABUNDANCES OF ENERGETIC HYDROGEN ISOTOPES PRODUCED IN SOLAR FLARES
TR-CR-71 N64-24877 17-28

HYDROGEN GENERATION BY THERMAL ENERGY
EDR-3714, VOL. II, SUPPL. A N64-24895 17-09

STELLAR EVOLUTION - HYDROGEN-BURNING PHASE OF STAR OF 7.0 SOLAR MASSES
NASA-TT-F-8741 N64-25283 17-29

CONCEPTUAL DESIGN OF COMPACT MOBILE ELECTROLYSIS UNIT FOR PRODUCTION OF HYDROGEN FROM WATER
EDR-3714, VOL. 1 N64-25524 17-06

CATALYTIC REDUCTION OF CARBON MONOXIDE WITH HYDROGEN
NASA-CR-57 N64-25603 17-07

DEACTIVATION OF NEON METASTABLES BY INELASTIC COLLISIONS WITH HYDROGEN
AFOSR-64-0571 N64-25742 17-19

VISCOSITY OF ISOTOPES OF HYDROGEN AND THEIR INTERMOLECULAR FORCE POTENTIALS - SQUID PROJECT
BRN-11-P N64-25797 17-19

COMPARATIVE STUDY OF EXPRESSIONS FOR HYDROGEN IONIZATION CROSS SECTION AND COEFFICIENT OF IONIZATION BY ELECTRON IMPACT
NASA-TT-F-8911 N64-25867 18-23

EXPLOSION SAFETY PRECAUTIONS AND STANDARDS FOR HYDROGEN, HYDROGEN DETECTOR, AND DETONATION IN HYDROGEN-OXYGEN MIXTURES N64-26035 18-19

USE OF INTENSITY RATIO OF COHERENT TO INCOHERENT SCATTERING OF X-RAYS FOR DETERMINATION OF CARBON TO HYDROGEN RATIO IN ORGANIC COMPOUNDS
EUR-488.F N64-26100 18-07

SOURCE OF PROTONS WITH THERMAL DISSOCIATION OF HYDROGEN MOLECULE
FTD-TT-64-522/1&2 N64-26162 18-23

HIGH RESOLUTION MICROWAVE SPECTRA OF HYDROGEN AND HYDROXYL ABSORPTION LINES OF CASSIOPEIA A N64-26301 18-05

GAS DYNAMICAL EFFECTS OF RADIATION & TRANSITION TO ESTABLISHMENT OF IONIZED GAS REGION - RADIATIVE IONIZATION FRONTS IN HYDROGEN N64-26338 18-11

EFFECT OF RECOMBINATION RATE ON FLOW OF DISSOCIATED HYDROGEN IN SHOCK HEATED HYDROGEN-ARGON MIXTURES IN SUPERSONIC NOZZLE EXPANSION FLOW
NASA-CR-58137 N64-26367 18-02

COMBINED SOLAR HYDROGEN PROPULSION AND ELECTRIC POWER SYSTEM
NASA-CR-58181 N64-26578 18-27

PERMEABILITY OF ADHESIVES BY LIQUID AND GASEOUS HYDROGEN
NASA-TM-X-53066 N64-26591 18-19

PHOTOELECTRIC ATLAS OF INTENSE LINES OF HYDROGEN MOLECULAR EMISSION SPECTRUM
ATN-64/9233/-2 N64-26761 18-23

THERMODYNAMIC AND TRANSPORT PROPERTIES FOR HYDROGEN-OXYGEN SYSTEM
NASA-SP-3011 N64-26785 18-26

CHEMICAL STUDY OF HYDROGEN-AIR REACTIONS IN PROPULSIVE DEVICES
AFOSR-1378 N64-26825 18-07

PRODUCTION OF TRITIUM BY CONTAINED NUCLEAR EXPLOSIONS IN SALT - REDUCTION OF ALKALINE EARTH SULFATES BY HYDROGEN
ORNL-3334, PT. II N64-27041 19-07

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON DIOXIDE
AMRL-TDR-64-35 N64-27432 19-16

CATALYST DEVELOPMENT FOR LOW TEMPERATURE PARA-ORTHO CONVERSION REACTION OF HYDROGEN
APL-TDR-64-48 N64-27459 19-07

EFFECT OF HYDROGEN CONTENT ON MECHANICAL PROPERTIES OF TITANIUM-6 ALUMINUM-4 VANADIUM BAR AT MINUS 423 DEG F
SM-44661 N64-27516 19-18

KINETICS OF REACTIONS IN HYDROGEN /CARBON MONOXIDE/ OXYGEN SYSTEM
R64SD37 N64-27567 19-07

ELECTROCHEMISTRY OF FUEL CELL ELECTRODES - HYDROGEN EVOLUTION AT SOLID INDIUM ELECTRODE
TM-11 N64-27623 19-07

MISSION ANALYSIS OF HYDROGEN FUELED HYPERSONIC TRANSPORTS
AIAA PAPER-64-605 N64-27753 19-04

EFFECT OF ACCUMULATED HYDROGEN ON CIRCUITRY IMBEDDED IN POLYURETHANE FOAM N64-28220 20-09

INTERNAL STRUCTURE AND CHARACTERISTICS OF HYDROGEN PLANETS - EQUATIONS OF STATE OF HYDROGEN AT HIGH PRESSURES N64-28377 20-29

HYDROGEN OXYGEN FUELED 3-KILOWATT INTERNAL COMBUSTION ENGINE
AIAA PAPER-64-756 N64-28410 20-06

MORPHOLOGY OF HYDROGEN LINES AND GEOMETRY AND DYNAMICS OF AURORA
AFCRL-64-601 N64-28536 20-12

NUCLEAR MAGNETIC RESONANCE IN SOLID HYDROGEN AND DEUTERIUM AT CRYOGENIC TEMPERATURES AND HIGH PRESSURES
TR-3 N64-28622 20-25

SUPER-POWER HYDROGEN THYRATRON
REPT.-8 N64-28663 20-09

HYDROGEN MASER TO OPERATE BETWEEN TWO HYPERFINE LEVELS IN HYDROGEN-LIKE ATOMS
NASA-CR-58525 N64-28881 20-23

PLANE GAS DYNAMIC AND TRANSVERSE MAGNETOGASDYNAMIC SHOCK WAVE IN FULLY IONIZED HYDROGEN
NASA-CR-58338 N64-28940 20-24

HYDROGEN EMISSION IN AURORAL SPECTRA - INTERACTION OF SOLAR CORPUSCULAR STREAM WITH ATMOSPHERE N64-29070 21-12

BINARY COUETTE FLOW WITH HYDROGEN INJECTED INTO CARBON DIOXIDE AND NITROGEN STREAMS FOR REENTRY COOLING SYSTEM
NASA-CR-58497 N64-29200 21-11

LIQUID VAPOR EQUILIBRIUM IN HYDROGEN-HELIUM SYSTEMS
NASA-CR-58687 N64-29214 21-11

ENGINE-INTEGRATED SECONDARY INJECTION SIDE-FORCE GENERATION FOR HYDROGEN-FUELED ROCKET ENGINE
NASA-TM-X-51919 N64-29227 21-27

THERMOCONDUCTIVITY TENSORS FOR FULLY IONIZED LORENTZ-TYPE HYDROGEN GAS
AFCRL-64-615 N64-29289 21-13

MOUNTING AND TUNING MECHANISM FOR INCORPORATING SOLID CAVITY INTO HYDROGEN MASERS

NASA-CR-58644 N64-29401 21-25

EVAPORATIVE MASS LOSS FROM IONIZED HYDROGEN GAS AND APPLICATION TO SOLAR CORONA
AFCRL-64-617 N64-29440 21-05

TWO ENERGY STORAGE SYSTEMS - STORAGE IN HIGH INTENSITY MAGNETIC FIELDS AND BY ELECTROLYSIS OF WATER STORING HYDROGEN AT HIGH PRESSURE
N64-29490 21-06

CONSTRUCTION & TEST OF HYDROGEN-OXYGEN ELECTROLYTIC REGENERATIVE FUEL CELLS
NASA-CR-58583 N64-29521 21-06

COMPONENTS AND STABILITY OF HYDROGEN MASERS
NASA-CR-58542 N64-29697 21-25

DIFFERENCE IN VERDET CONSTANT BETWEEN ATOMIC AND MOLECULAR HYDROGEN USED TO DETERMINE ATOMIC CONCENTRATION IN MIXTURE AND DERIVATION OF ELECTRIC SUSCEPTIBILITY FOR HYDROGEN
NOLTR-64-87 N64-30040 21-23

ZERO GRAVITY CONTROL OF CESIUM AND HYDROGEN BY ELECTRICAL PHENOMENA
APL-TDR-64-46 N64-30075 21-24

CATALYTIC IGNITION OF OXYGEN/HYDROGEN SYSTEMS
NASA-CR-54086 N64-30086 21-26

SATURN S- IV STAGE EXPLOSION CAUSED BY HYDROGEN FUEL DETONATION
NASA-TN-D-563 N64-30089 21-10

COOLING OF NOSE CONE BY EJECTION OF HYDROGEN AND HELIUM FROM ITS APEX AT MACH 7
NASA-TN-D-2478 N64-30098 21-13

SOLAR FLARES IN LIGHT OF HYDROGEN LYMAN ALPHA RADIATION MONITORED BY ORBITING SOLAR OBSERVATORY /OSO/
N64-30258 22-28

NONADIABATIC THEORY FOR DIATOMIC MOLECULES AND APPLICATION TO HYDROGEN MOLECULE
N64-30309 22-23

POST-LUMINESCENCE OF HYDROGEN IMPURITY IN HELIUM OR NEON PLASMA EXCITED IN PULSES
NASA-TT-F-8959 N64-30852 22-24

ACCELERATION FACTOR OF THERMONUCLEAR REACTIONS IN COMPRESSED HYDROGEN PLASMA
NASA-TT-F-8961 N64-30854 22-24

ISOTOPIC COMPOSITION OF LOW ENERGY HYDROGEN NUCLEI IN PRIMARY COSMIC RADIATION
URPA-45 N64-30957 22-28

PHASE II SUPER POWER HYDROGEN THYRATRON TUBE WITH AIR COOLED ANODE AND CONTROL GRID
REPT.-5 N64-31200 22-09

LIGHTWEIGHT METAL FOIL HEAT EXCHANGERS FOR HYDROGEN PRECOOLING IN AEROSPACE VEHICLES
ITR-5 N64-31268 22-13

URANIUM ADDITION EFFECT ON HYDROGEN EMBRITTLEMENT SUSCEPTIBILITY OF HIGH STRENGTH STEEL
NAEC-AML-1759 N64-31626 23-18

INTERACTION POTENTIAL DETERMINATION FOR COLLISION INVOLVING PROTON APPROACHING AXIS OF HYDROGEN MOLECULE
NOLTR-64-85 N64-31673 23-23

NUCLEAR EMULSION OF LOW-ENERGY GALACTIC COSMIC-RAY HYDROGEN AND HELIUM NUCLEI
NASA-RP-336 N64-31720 23-28

RADIATION ACTIVATION OF ORTHO-PARA HYDROGEN CATALYSTS
QPR-1 N64-32357 23-07

THOMSON SCATTERING OF LASER BEAM FROM LABORATORY HYDROGEN PLASMA
RR-187 N64-32448 23-24

NONEQUILIBRIUM RECOMBINATION IN NOZZLES FOR LIQUID OXYGEN-HYDROGEN, FLUORINE-HYDROGEN, AND FLUORINE-LIQUID OXYGEN-HYDROGEN PROPELLANTS
TDR-269/4210-10/-6 N64-32482 23-26

CONVERSION RATE OF PARA-ORTHO HYDROGEN CAUSED BY PARAMAGNETIC ION ON CATALYST SURFACE
QPR-2 N64-32515 23-23

CHEMICAL PROPERTIES & SOLUBILITY OF OZONE FLUORIDE IN LIQUID OXYGEN AND HYPERGOLIC IGNITION BETWEEN HYDROGEN AND LIQUID OXYGEN
NASA-CR-54072 N64-32632 23-26

SILVER-ZINC SECONDARY BATTERIES - HYDROGEN EVOLUTION AND PALLADIUM ADDITIONS TO SILVER PLATE
QTPR-4 N64-32883 24-06

PERFORMANCE OF HIGH SPECIFIC IMPULSE LIQUID-COOLED ARC JET ENGINE USING HYDROGEN AS PROPELLANT
AIAA PAPER-64-669 N64-33144 24-27

LABORATORY APPARATUS TO STUDY REDUCTION OF IGNEOUS ROCK WITH CARBON, HYDROGEN, AND METHANE - UTILIZATION OF LUNAR RESOURCES
NASA-CR-59197 N64-33161 24-07

STATIC MOISTURE REMOVAL SYSTEM FOR CAPILLARY MEMBRANE HYDROGEN-OXYGEN FUEL CELL
NASA-CR-58852 N64-33209 24-06

ANNOTATED BIBLIOGRAPHY ON ORTHO AND PARA HYDROGEN AND CONVERSIONS
APL-TDR-64-81 N64-33303 24-07

DETECTION TECHNIQUES FOR TENUOUS PLANETARY ATMOSPHERES - CHEMISORPTION DETECTORS FOR HYDROGEN AND WATER VAPOR
NASA-CR-59285 N64-33336 24-07

ENERGY SPECTRUM OF HYDROGEN PLASMA IN TRANSVERSE MAGNETIC FIELD
NASA-TT-F-8970 N64-33370 24-24

HIGH FREQUENCY INTERNAL FRICTION MEASUREMENTS OF HYDROGEN AND CARBON MOVEMENTS IN STEEL
D6-9586TN N64-33442 24-18

HYDROGENIC RECOMBINATION GAUNT FACTORS
N64-33457 24-05

HYDROGEN EMBRITTLEMENT FROM CORROSION, CATHODIC PROTECTION, ELECTROPLATING AND PERMEATION RATES
AD-446525 N64-33713 24-07

ELECTROCATALYSIS - HYDROGEN EVOLUTION AT DILUTE PLATINUM & PALLADIUM AMALGAM FUEL CELL ELECTRODES
TR-7 N64-33757 24-06

INDUCED INFRARED ABSORPTION OF DILUTE SOLUTIONS OF HYDROGEN AND DEUTERIUM IN LIQUID ARGON
JPL-TR-32-586 N64-33763 24-23

LEAKAGE DETECTORS AND COMBUSTION FACTORS IN HYDROGEN SAFETY PRACTICES
PR-3 N64-33829 24-26

HYDROGEN ATOM

HYDROGEN ATOM RECOMBINATION CATALYSIS FOR INCREASE IN PROPELLANT SPECIFIC IMPULSE - ARC JET PROPULSION UNIT APPLICATION
NASA-CR-52376 N64-13061 04-23

HYDROGEN ATOM IONIZATION BY ELECTRON IMPACT
FTD-TT-63-868 N64-13921 05-23

CATALYSIS OF HYDROGEN ATOM RECOMBINATION IN NOZZLE FLOWS
AIAA PAPER-64-98 N64-14066 05-11

HYDROGEN ATOM, GASEOUS DIFFUSION, COSMIC RAY, SCINTILLATION, AND WIND DISTRIBUTION STUDIES
ANL-6769 N64-17107 09-23

HYDROGEN ATOM OSCILLATOR STRENGTH DISTRIBUTION
N64-17108 09-23

ATOMIC HYDROGEN EMISSION LINE OBSERVATIONS OF GALAXIES
HRAP-111 N64-18471 10-05

MODEL DISTRIBUTIONS OF ATOMIC HYDROGEN IN GALAXIES
HRAP-112 N64-18472 10-05

RELATION OF QUANTUM TRANSITION OF ELECTRON IN HYDROGEN ATOM TO PHYSICS OF PLANETARY NEBULAE
N64-19332 12-05

NONADIABATIC THEORY OF INELASTIC SCATTERING OF ELECTRONS FROM ATOMIC HYDROGEN
NASA-TM-X-51667 N64-20594 13-23

EVALUATION OF 3X3 CROSS SECTION MATRIX INVOLVED IN ELECTRON IMPACT EXCITATION OF GROUND STATE HYDROGEN ATOM TO 2S AND 2P LEVELS
NASA-TN-D-2145 N64-21266 14-23

RESONANCE ABSORPTION SPECTROPHOTOMETRY OF HYDROGEN ATOM BEHIND SHOCK WAVES
NASA-CR-56290 N64-22481 15-11

HELIUM AND ATOMIC HYDROGEN IN PERIOD OF SOLAR ACTIVITY MINIMUM
NASA-TT-F-8625 N64-24158 16-29

AIRGLOW & REACTION BETWEEN ATOMIC HYDROGEN & OZONE IN ATMOSPHERE N64-24473 17-21

NONADIABATIC THEORY OF INELASTIC ELECTRON SCATTERING FROM ATOMIC HYDROGEN
NASA-RP-269 N64-26251 18-23

2S AND 2P ELECTRON IMPACT EXCITATION IN ATOMIC HYDROGEN
NASA-RP-305 N64-29341 21-23

CHEMICAL REACTIVITY OF HYDROGEN, NITROGEN, AND OXYGEN ATOMS AT CRYOGENIC TEMPERATURES
NASA-CR-58968 N64-32892 24-07

HYDROGEN ATOM IONIZATION BY ELECTRON COLLISION
NASA-TM-X-55081 N64-33633 24-24

EXCITATION OF HYDROGEN ATOM BY ELECTRON COLLISION
NASA-TM-X-55082 N64-33634 24-24

HYDROGEN BOMB
S NUCLEAR WARFARE

HYDROGEN BOND
HYDROGEN BOND AS PREDOMINANT FACTOR IN INTER- AND INTRAFIBER BONDING IN CELLULOSE
N64-16918 09-19

CAPTURE COEFFICIENT FOR GASES AT 77 DEG K AS FUNCTION OF MOLECULAR WEIGHT, HEAT CONDENSATION, & DEBYE TEMPERATURE - HYDROGEN BONDING EFFECT
AEDC-TDR-64-37 N64-20076 13-23

INFRARED ABSORPTION BANDS FOR NITROGEN-HYDROGEN AND PHOSPHORUS-HYDROGEN BONDS
AD-434269 N64-21321 14-07

PRESSURE EFFECTS ON INFRARED SPECTRA OF HYDROGEN BONDED SOLIDS N64-29344 21-25

HYDROGEN BONDING IN THIOL & AMINOTHIOL COMPOUNDS
AD-603220 N64-30781 22-07

HYDROGEN COMPOUND
HAZARDS OF PLUTONIUM OXIDE - HYDROGENOUS COMPACT CRITICAL MASS EXPERIMENTS
HW-66266, SUPPL. 1, REV. N64-14922 06-23

CHEMICAL REACTION OF HYDROXYLAMINE WITH ISONITROACETOPHENONE
RSIC-167 N64-21585 15-07

KINETICS OF HYDROGEN BROMIDE AND METHYL BROMIDE FLAME INHIBITION
SR-6-3 N64-25183 17-07

EFFECT OF SOLVENTS ON SILICON HYDROGEN STRETCHING VIBRATION STUDIED WITH INFRARED SPECTROPHOTOMETER
GNE/PHYS/64-17 N64-33817 24-07

HYDROGEN FLUORIDE
NONSULFUROUS FUEL FROM UNSATURATED SULFUROUS DISTILLATES BY THERMAL TREATMENT OF PETROLEUM RESIDUES WITH HYDROGEN FLUORIDE
FTD-TT-63-782/1&2 N64-11152 02-07

CRYSTAL STRUCTURE OF SODIUM HYDROGEN FLUORIDE
IS-678 N64-13194 04-23

PASSIVATION OF ALUMINUM ELECTRODES IN ANHYDROUS HYDROGEN FLUORIDE
TRACOR-63-278-U N64-13313 04-07

HIGH ENERGY OXIDIZERS IN SOLUTION - HYDROGEN FLUORIDE AND NITROGEN FLUORIDE
AD-430938 N64-16888 08-07

INSTRUMENTATION FOR MEASURING FREEZING POINTS OF URANIUM HEXAFLUORIDE-HYDROGEN FLUORIDE SAMPLES
K-1590 N64-17530 09-15

IONIZATION OF HIGH ENERGY OXIDIZERS - MEASUREMENT OF CONDUCTIVITY OF NITROGEN FLUORIDE IN HYDROGEN FLUORIDE
AD-439413 N64-20851 14-26

FAR INFRARED SPECTRUM OF HYDROGEN FLUORIDE
AFCRL-63-863 N64-28917 20-23

ELECTRODE FOR ELECTROCHEMICAL FLUORINATION - SYNTHESIS OF NITROGEN-FLUORINE COMPOUNDS IN ANHYDROUS HYDROGEN FLUORIDE
TRACOR-64-228-U N64-29897 21-07

ONE-CENTER SELF-CONSISTENT FIELD MOLECULAR ORBITAL WAVE FUNCTIONS FOR GROUND STATES OF HYDROGEN FLUORIDE, METHANE, AND SILANE N64-30315 22-23

HYDROGEN ION
HYDROGEN ION DISTRIBUTION IN UPPER ATMOSPHERE
N64-12406 03-12

ANOMALIES IN BEHAVIOR OF GAMMA-RAY RESONANCES INDUCED BY HYDROGEN MOLECULAR ION & PROTON BEAMS
NRL-5897 N64-14505 06-23

SOLAR WIND BOMBARDMENT OF LUNAR SURFACE - SIMULATION WITH HYDROGEN ION BEAM
N64-15175 07-28

HYDROGEN ION BOMBARDMENT OF BASALT POWDERS IN INVESTIGATING EFFECT OF SOLAR WIND ON LUNAR SURFACE
NASA-CR-55720 N64-15891 07-29

INFRARED ABSORPTION OF HYDROGEN AND DEUTERIUM IONS IN CALCIUM FLUORIDE
AFCRL-64-284 N64-18878 11-25

DIRECT MEASUREMENT OF HYDROGEN AND HELIUM ION DISTRIBUTION IN UPPER ATMOSPHERE
NASA-RP-168 N64-19994 12-12

VISCOSITY, CONDUCTIVITY, AND HYDROGEN ION CONCENTRATIONS IN WATER SOLUTIONS OF VINYLPYRIDINE COPOLYMER WITH METHACRYLIC ACID
FTD-TT-62-1572/1&2&4 N64-22149 15-07

MOLECULAR HYDROGEN ION ABSORPTION AS SOURCE OF CONTINUOUS OPACITY IN STELLAR ATMOSPHERES
SUI-64-4 N64-24896 17-29

RATE CONSTANTS OF IONIZATION AND RECOMBINATION REACTIONS IN HEATED AIR YIELDING HYDROGENIC IONS
TR-3153 N64-33465 24-24

HYDROGEN PERCHLORATE
EXTRACTION OF HYDROGEN PERCHLORATE AND NITRIC ACID INTO TRIOCTYLPHOSPHINE OXIDE FROM CARBON TETRACHLORIDE AND NITROBENZENE SOLUTIONS
UCRL-10971 N64-15243 07-07

HYDROGENATION
CF CHEMICAL REACTION
CONSERVATION AND PREPARATION OF ARTIFICIAL STEROIDS BY HYDROGENATION WITH SELENIUM DIOXIDE
EUR-412.F N64-17542 09-07

INTEGRATED CARBON DIOXIDE HYDROGENATION SYSTEM FOR OXYGEN RECOVERY
ASD-TDR-62-581, PT. 2 N64-19791 12-07

CATALYSIS CHROMATOGRAPHY OF PROPYLENE

HYDROGENATION ON NICKEL-SILICON DIOXIDE
N64-20927 14-07

HYDROGENOLYSIS
ASYMMETRIC SYNTHESIS OF ALPHA-AMINO ACIDS BY STRECKER SYNTHESIS, INCLUDING PRODUCTION OF OPTICALLY ACTIVE L-ANILINE
N64-18321 10-07

HYDROGRAPHY
LAND HYDROGRAPHY, SOIL CHARACTERISTICS, SEMICONDUCTOR MATERIALS, AND FLUID MECHANICS
JPRS-25016 N64-26410 18-23

HYDROGRAPH PRECALCULATION BY WATER BALANCE METHOD USING ELECTRONIC ANALOG COMPUTER
N64-28402 20-12

HYDROLOGY
CF METEOROLOGY
WATER TEMPERATURE DISTRIBUTION, TEMPERATURE ANOMALY EFFECT ON ARCTIC ICE COVER, BAROCLINIC DEPTH, METEOROLOGY & HYDROLOGY BIBLIOGRAPHY
JPRS-20398 N64-10843 02-21

ATMOSPHERIC SCIENCES - RELATION OF METEOROLOGY, HYDROLOGY & OCEANOGRAPHY, HIGH ATMOSPHERE & ATMOSPHERIC CHEMISTRY STUDY, & WEATHER PREDICTION
NAS-NRC-PUBL.-1085 N64-12109 03-21

METEOROLOGY & HYDROLOGY - CLOUD STRUCTURE & ATMOSPHERIC TURBULENCE
JPRS-20146 N64-12785 04-21

FUNDAMENTAL METEOROLOGICAL PROCESSES AND APPLICATION TO PROBLEMS IN AGRICULTURE AND WATER USE
N64-14759 06-21

LONG-TERM EFFECT OF SOLAR ACTIVITY ON CLIMATE AND HYDROLOGIC CYCLES
N64-15620 07-21

ATMOSPHERIC CIRCULATION, COMPOSITION, AND CONDENSATION - METEOROLOGY AND HYDROLOGY
JPRS-23246 N64-16145 08-21

OCEANOGRAPHY & HYDROLOGY - THERMAL REGIME AND TEMPERATURE OF NORTHEASTERN PACIFIC OCEAN
JPRS-24609 N64-20234 13-12

IMPROVED METHODS IN HYDROLOGY AND METEOROLOGY
JPRS-26139 N64-28401 20-12

SHORT PERIOD FORECASTING OF HIGH WATER HYDROGRAPHS
N64-28403 20-12

MATHEMATICAL METHODS AND ELECTRONIC COMPUTERS FOR SOLVING HYDROLOGICAL PROBLEMS
N64-28404 20-12

QUANTUM MEASUREMENT OF TIME, ELECTRONICS, CLIMATOLOGY, HYDROLOGY, AND MIXING EFFECT OF DISPERSION BETWEEN LIQUIDS
JPRS-26128 N64-28433 20-01

HYDROLYSIS
SA HYDRATION
CF CHEMICAL REACTION
CF DECOMPOSITION
CF EXTRACTION
HYDROLYSIS & SYNTHESIS OF TETRAZINEDICARBOXYLIC ACID AND BENZALHYDRAZINOOXALIC ACID
RSIC-95 N64-12604 04-07

HYDROLYSIS OF NITROGEN-FLUORINE COMPOUND WITH SODIUM HYDROXIDE
HQ-76-3 N64-13077 04-07

PYROHYDROLYSIS FOR RECOVERY OF BORON-10 FROM SCRAP
NBL-206 N64-14248 06-07

HYDROLYSIS AND RESIDUE ADSORPTION METHODS FOR SEPARATION OF PROTACTINIUM-231 & PROTACTINIUM-231 DECAY PRODUCTS
N64-15661 07-07

HYDROLYSIS OF NITROGEN TRIFLUORIDE
HQ-76-4 N64-16337 08-07

VAPOR PHASE HYDROLYSIS OF PENTABORANE-9
AMRL-TDR-63-129 N64-16800 08-07

FORMATION OF HEPTAFLUOROPROPYLPHOSPHINE BY HYDROLYSIS
A63-14 N64-18631 11-07

KINETICS OF HYDROLYSIS OF MAGNESIUM FLUORIDE AT HIGH TEMPERATURES - CHEMICAL REACTION
UCRL-11103 N64-19098 11-07

CHEMICAL REACTIONS AND HYDROLYSIS OF NITROGEN-FLUORINE COMPOUNDS
HQ-76-5 N64-21461 14-07

BORON PARTICLE SIZE, SPECTROCHEMICAL ANALYSIS, PYROHYDROLYSIS, MOLYBDENUM AND TECHNETIUM HYDROLYSIS
NBL-210 N64-23061 16-23

MECHANISMS OF HYDROLYSIS OF PHOSPHONATE ESTERS
AD-437607 N64-24226 16-07

HYDROLYSIS OF AMINO ACYL-BETA-NAPHTHYLAMIDES BY PLASMA AMINOPEPTIDASES
NASA-RP-236 N64-26710 18-16

HYDROLYSIS OF ORGANOCHLOROSILANES IN CONTINUOUS COUNTERFLOW SPRAY COLUMN
FTD-TT-64-132/1&2&4 N64-27842 19-07

SYNTHESIS OF DIMETHYL-BIS-PERFLUOROPROPYL-SILANE AND STUDY OF PYROLYTIC AND HYDROLYTIC STABILITY
N64-29173 21-07

SYNTHESIS OF THERMALLY AND HYDROLYTICALLY STABLE ELASTOMERS BASED ON CHAINS OF SILICON ATOMS BONDED TO NITROGEN
QPR-9 N64-30582 22-07

HYDROLYTIC STABILITY OF AMINE SALT ASHLESS RUST INHIBITORS IN TWO-PHASE WATER-BENZENE SYSTEMS WITH CARBON DIOXIDE PRESENT
NRL-6081 N64-32531 23-07

HYDROMAGNETIC STABILITY
EFFECTS OF BODY FORCE & FINITE ELECTRICAL CONDUCTIVITY ON HYDROMAGNETIC STABILITY OF DISCONTINUOUS SHEAR FLOW
RTD-TDR-63-1100 N64-13105 04-24

STABILITY AGAINST RESISTIVE INTERCHANGE MODES OF HYDROMAGNETIC SYSTEM
MATT-220 N64-13155 04-24

INFLUENCE OF GYRATION RADIUS AND COLLISIONS ON HYDROMAGNETIC STABILITY
MATT-218 N64-18338 10-24

HYDROMAGNETIC PLASMA STABILITY STUDIES - BIBLIOGRAPHY AND SUMMARY
SIT-P104/11/63/ N64-19161 11-24

SPACE CHARGE AND HYDROMAGNETIC INSTABILITIES IN AURORAL ARC DEFORMATIONS
N64-20674 13-12

HYDROMAGNETIC STABILITY OF VELOCITY DISCONTINUITY BETWEEN TWO INVISCID, COMPRESSIBLE FLUIDS
N64-22497 15-11

STABILITY OF INTERFACE BETWEEN SOLAR WIND AND MAGNETOSPHERE USING HYDROMAGNETIC EQUATIONS
NASA-RP-297 N64-28232 20-28

HYDROMAGNETIC INSTABILITY IN ORIGIN OF SOLAR FLARES
N64-30296 22-28

HYDROMAGNETIC INSTABILITY IN STELLARATOR
MATT-262 N64-32854 24-24

HYDROMAGNETIC WAVE
PROPAGATION OF HYDROMAGNETIC WAVES IN A COLLISIONLESS PLASMA
IPPJ-11 N64-11248 02-24

HYDROMAGNETIC WAVE TUBE - ENERGY COUPLING, WAVE PROPAGATION, AND CROSS MODULATION BETWEEN ELECTROMAGNETIC AND HYDROMAGNETIC WAVES
AFCRL-63-779 N64-12043 03-24

HYDROMAGNETIC WAVE PROPAGATION IN PLASMA
UCRL-10990 N64-13215 04-24

HYDROMAGNETIC WAVE PROPAGATION IN ATMOSPHERE OF ARBITRARY ELECTRIC CONDUCTIVITY
N64-15119 07-23

PLANETARY GEOLOGY, ESCAPE OF HELIUM FROM EARTH ATMOSPHERE, AND HYDROMAGNETIC WAVES IN SPACE
NASA-CR-55384 N64-15182 07-01

HYDROMAGNETIC WAVES IN SPACE N64-15185 07-28

SPECTRUM OF HYDROMAGNETIC WAVES IN EXOSPHERE DUE TO MAGNETIC STORMS
NASA-TR-R-143 N64-16006 07-12

PROPAGATION EQUATIONS FOR HYDROMAGNETIC SIGNALS IN ANISOTROPIC IONOSPHERE
RM-3830-PR N64-16048 07-12

REFRACTIVE INDICES FOR HYDROMAGNETIC WAVE PROPAGATION IN EARTH UPPER ATMOSPHERE
AFCRL-64-228 N64-16978 09-12

WHISTLER AND HYDROMAGNETIC WAVE PROPAGATION IN MAGNETOIONIC MEDIUM
AFCRL-63-929 N64-18308 10-12

WAVE MEASUREMENTS OF HYDROMAGNETIC EMISSIONS AT LOW GEOMAGNETIC LATITUDE
AD-437332 N64-20317 13-12

WAVE PROPAGATION PERPENDICULAR TO MAGNETIC FIELD IN IONIZED GAS - HYDROMAGNETIC WAVE GENERATION
US-36 N64-20387 13-24

DISSIPATION OF HYDROMAGNETIC WAVE ENERGY IN IONOSPHERE N64-21834 15-12

ELLIPTICALLY POLARIZED HYDROMAGNETIC WAVES IN EARTH MAGNETOSPHERE AND MAGNETIC FIELD
NASA-CR-58130 N64-26375 18-12

KADOMTSEV INTERACTION OF HYDROMAGNETIC WAVE AND ELECTRIC CURRENT IN HIGHLY IONIZED HELIUM PLASMA
ATN-64/9230/-2 N64-30007 21-24

TRANSMISSION OF PLANE HYDROMAGNETIC WAVES THROUGH UPPER ATMOSPHERE
REPT.-134 N64-30188 21-12

IONOSPHERIC HYDROMAGNETIC AND ACOUSTIC WAVES
N64-32264 23-12

CYCLOTRON FREQUENCY HYDROMAGNETIC WAVE EXCITATION
NASA-CR-59199 N64-33160 24-12

HYDROMAGNETIC WAVE PROPAGATION IN MAGNETOSPHERE
NASA-TM-X-55092 N64-33565 24-24

HYDROMAGNETISM
SA HYDROMAGNETIC STABILITY
SA HYDROMAGNETIC WAVE
SA MAGNETOHYDRODYNAMICS
SA PLASMA
COMPUTATION OF SOLAR MAGNETIC FIELD FROM HYDROMAGNETIC EQUATIONS FOR VELOCITY FIELDS IN LOW PHOTOSPHERE N64-11590 03-28

VARIATIONAL PRINCIPLE OF HAMILTON APPLIED TO HYDROMAGNETIC SYSTEM WITH EQUATIONS IN HAMILTONIAN FORM
RTI/FI/62/6 N64-12574 04-24

ASYMPTOTIC DESCRIPTION OF CUSPS OF HYDROMAGNETIC EQUILIBRIUM CONFIGURATION
NYO-10435 N64-19285 11-24

EXTREMELY LOW FREQUENCY MAGNETIC FIELD WAVES IN INHOMOGENOUS HYDROMAGNETIC MEDIUM
N64-19700 12-12

HYDROMAGNETICS AND PLASMA PHYSICS
AFCRL-63-907 N64-20107 13-24

STATISTICAL STUDIES OF HYDROMAGNETIC EMISSION
REPT.-8-08-64-1, VOL. II N64-24063 16-12

ORIGIN OF SOLAR NEBULA - PROBLEM OF SOLAR MOMENTUM AND HYDROMAGNETIC MOMENTUM TRANSFER
N64-24762 17-05

HYDROMETEOROLOGY
AUTOMATIC TELEMETERING HYDROMETEOROLOGICAL SYSTEM TO INCREASE ACCURACY IN WEATHER FORECASTING
N64-10283 01-12

STRATOSPHERE INVESTIGATION BY METEOROLOGICAL ROCKETS - AIR TEMPERATURE MEASUREMENT, OCEANOGRAPHY, & HYDROMETEOROLOGY
JPRS-18306 N64-10754 02-21

HYDROMETEOROLOGICAL DISCUSSION OF CUMULUS CLOUDS, FORECASTING AND MEASUREMENTS OF LONG-WAVE BALANCE
JPRS-19879 N64-10835 02-21

PLANS AND SERVICES OF HYDROMETEOROLOGICAL, GEOPHYSICAL, & GEODETIC ORGANIZATIONS
JPRS-22378 N64-12007 03-21

HYDROMETEOROLOGY PROGRAM MANAGEMENT & PLANNING IN SOVIET UNION
JPRS-24528 N64-20231 13-12

HYDROMETEOROLOGICAL SERVICE IN USSR
N64-24402 17-21

HISTORY OF HYDROMETEOROLOGICAL SERVICE IN USSR
N64-24403 17-21

RADIATION EFFECTS & RADIOACTIVE MATERIALS - FORECASTING STUDIES IN HYDROMETEOROLOGY
JPRS-24860 N64-24799 17-21

HYDROMETEOROLOGICAL NETWORK - AUTOMATION AND RADIOTELEMETRY N64-32331 23-21

RADIOACTIVE ISOTOPES FOR HYDROMETEOROLOGICAL MEASUREMENTS - NUCLEAR RADIATION PROBLEMS
N64-32333 23-21

HYDROMETEOROLOGICAL STATIONS FOR OCEANOGRAPHIC SYNOPTIC SURVEYS
JPRS-26999 N64-33958 24-12

HYDROPHONE
CALIBRATION OF INFRASONIC HYDROPHONES BY NULL METHOD
JPRS-18422 N64-10765 02-23

HYDROPHONES TO DETECT SEISMIC ENERGY ON OCEAN BOTTOM
SCI. REPT. 25 N64-17462 09-12

HYDROPLANE
CF HYDROFOIL
PNEUMATIC TIRE HYDROPLANING
NASA-TN-D-2056 N64-10521 01-04

HYDROSPHERE
HYDROSPHERE UNDER MARTIAN CONDITIONS - DETECTION OF WATER VAPOR WITH OCEANOGRAPHIC TECHNIQUES
N64-24774 17-29

HYDROSTATIC PRESSURE
INSTABILITY EQUILIBRIUM EQUATIONS OF ORTHOTROPIC CIRCULAR CONICAL SHELL SUBJECTED TO HYDROSTATIC PRESSURE AND COMPRESSIVE AXIAL FORCE
NASA-CR-52883 N64-11337 02-33

HYDROSTATIC PRESSING, IMPREGNATION, AND CRACKING OF METAL POWDERS AND RADIATION METHOD FOR PREPARING FINE PARTICLES
JPRS-18407 N64-11478 03-01

HYDROSTATIC PRESSING OF COPPER, IRON, NICKEL, AND MOLYBDENUM POWDERS N64-11479 03-17

HYDROSTATIC PRESSING VESSEL FAILURE DUE TO CRACK FORMATION
NASA-RP-92 N64-13198 04-17

APPLICATION OF ULTRAHIGH HYDROSTATIC PRESSURE TO METAL FORMING
DMIC-199 N64-21102 14-25

HYDROSTATIC PRESSURE CYLINDER - ALUMINUM HONEYCOMB CASE
AD-439657 N64-24573 17-33

HYDROSTATIC PRESSURE TESTS OF RING-STIFFENED

CYLINDER OF OVAL CROSS-SECTION
DTMB-1788 N64-25121 17-33

EFFECT OF HYDROSTATIC PRESSURE ON ELECTRON PARAMAGNETIC RESONANCE SPECTRUM OF CHROMIUM AND VANADIUM IONS IN SAPPHIRE
REPT.-06029-1-T N64-27858 19-25

NONLINEAR THEORY OF ELASTICITY - DEFORMATION OF PRE-STRESSED CIRCULAR PLATES AND RINGS BY HYDROSTATIC PRESSURES
NASA-CR-58572 N64-29688 21-33

PRODUCTION & HYDROSTATIC PRESSURE TEST OF GLASS FIBER FILAMENT WOUND CYLINDER
GR-8 N64-30464 22-34

PLASTIC GENERAL-INSTABILITY OF TRANSVERSE RING-STIFFENED CYLINDRICAL SHELLS SUBJECTED TO EXTERNAL HYDROSTATIC PRESSURE
DTMB-1587 N64-31704 23-34

ELECTROHYDRAULIC EXTRUSION DEVICE TO OPERATE AT HIGH HYDROSTATIC PRESSURES
RAC-2638 N64-33101 24-17

HYDROSTATICS
DESIGN, DEVELOPMENT, ASSEMBLY, AND CALIBRATION OF HYDROSTATIC OMNIDIRECTIONAL ACCELEROMETERS
NASA-CR-55091 N64-12070 03-15

HYDROSTATIC TESTING OF STRUCTURAL STABILITY OF FILAMENT WOUND SPHERICAL CHAMBERS - POLARIS MISSILE PROJECT
AD-424062 N64-12339 03-33

HYDROSTATIC TESTING FOR COMPARATIVE STUDY BETWEEN CHAMBER WINDING PATTERNS AND CHAMBER BEHAVIOR - FILAMENT WOUND PRESSURE VESSELS
REPT.-0627-I-4 N64-15696 07-34

EQUATIONS DESCRIBING BEHAVIOR OF DENSITY IN HYDROSTATIC ATMOSPHERES
ARL-1357-3 N64-22687 15-21

HYDROSTATIC STABILITY OF LIQUID-VAPOR INTERFACE IN LOW-ACCELERATION FIELD
NASA TN D-2444 N64-27124 19-11

MULTIPARAMETRIC THEORY OF SPHEROIDS IN HYDROSTATIC EQUILIBRIUM
AD-603073 N64-33483 24-23

HYDROX FUEL CELL
STATIC MOISTURE REMOVAL SYSTEM FOR CAPILLARY HYDROGEN-OXYGEN FUEL CELL
NASA-CR-52652 N64-11120 02-06

FUEL CELLS - ELECTROCHEMICAL COMBUSTION, HYDROGEN-OXYGEN ELEMENTS & BATTERIES
JPRS-22148 N64-11275 02-06

DESIGN OF ORBITAL HYDROGEN-OXYGEN CAPILLARY TYPE FUEL CELL - OPERATION AND VIBRATION TESTING OF PACKAGE AND COMPONENTS
AD-423722 N64-13104 04-06

INORGANIC ZEOLITE MEMBRANES USED IN HYDROGEN-OXYGEN FUEL CELL
NASA-CR-55746 N64-15875 07-06

VAPOR PRESSURE CONTROL TECHNIQUE FOR REMOVAL OF BYPRODUCT WATER FROM HYDROGEN-OXYGEN FUEL CELLS
NASA-CR-55778 N64-16274 08-06

HYDROGEN-OXYGEN CAPILLARY-TYPE FUEL CELL
AD-404661 N64-17305 09-06

HYDROGEN GENERATOR FOR HYDROGEN-OXYGEN FUEL CELL
N64-17397 09-06

HYDROGEN-OXYGEN FUEL CELLS FOR SPACE MISSIONS
N64-17401 09-06

HYDROGEN-OXYGEN SOLID-ELECTROLYTE FUEL CELL BATTERIES FOR SPACE APPLICATION
N64-17410 09-06

CATALYST & ELECTRODE STUDIES FOR HIGH PERFORMANCE LIGHTWEIGHT HYDROGEN-OXYGEN FUEL CELL
NASA-CR-54022 N64-18162 10-06

CAPILLARY TYPE HYDROX FUEL CELL FOR ENERGY SOURCE ON SPACE VEHICLES
AD-439670 N64-21093 14-30

HYDROGEN-OXYGEN CAPILLARY FUEL CELL
AD-432239 N64-21063 14-06

CEROLYTE FUEL CELLS - SOLID ELECTROLYTE HYDROGEN-OXYGEN POWER PLANT
AD-601817 N64-24941 17-06

CAPILLARY TYPE HYDROGEN-OXYGEN FUEL CELL
APL-TDR-64-54 N64-25576 17-06

HYDROGEN-OXYGEN FUEL CELL STUDIES - CATALYSTS, ELECTRODES, AND ELECTROLYTES
APL-TDR-64-88 N64-28575 20-06

HIGH PRESSURES AND LIQUID-GAS INTERFACE PROBLEMS IN HYDROX FUEL CELL USED FOR ENERGY CONVERSION AND STORAGE
N64-29488 21-06

HIGH PRESSURE ELECTROLYSIS AND HYDROX FUEL CELL FOR HIGH EFFICIENCY ENERGY CONVERSION AND STORAGE
N64-29489 21-06

NONSTEADY HYDROGEN-OXYGEN FUEL CELL OPERATIONS UNDER PULSED LOAD CONDITIONS
NASA-CR-54163 N64-30047 21-06

HYDROXYL
RADIO OBSERVATIONS OF HYDROXYL ABSORPTION SPECTRUM FROM CASSIOPEIA A
NASA-CR-52852 N64-11379 02-28

RADIO OBSERVATION OF HYDROXYL RADICAL IN ABSORPTION SPECTRUM OF CASSIOPEIA A
N64-15157 07-05

VARIATIONS OF HYDROXYL AND OXYGEN EMISSIONS IN INFRARED AIRGLOW N64-17006 09-23

CHEMICAL REACTION OF HYDROXYLAMINE WITH ISONITROACETOPHENONE
RSIC-167 N64-21585 15-07

VARIATIONS IN POPULATIONS OF VIBRATIONAL LEVELS OF HYDROXYL MOLECULE N64-21878 15-12

LATITUDINAL AND PLANETARY VARIATIONS OF HYDROXYL EMISSION N64-21879 15-12

ROTATIONAL TEMPERATURE OF HYDROXYL BANDS IN AIRGLOW N64-21883 15-12

HYDROXYL EMISSION AND ATMOSPHERIC BAND OF OXYGEN MOLECULE N64-21884 15-12

OBSERVATIONS OF HYDROXYL EMISSION IN AIRGLOW SPECTRUM N64-21890 15-12

INTENSITY OF HYDROXYL BANDS AS FUNCTION OF ROTATIONAL TEMPERATURE N64-21891 15-12

WAVELENGTHS OF ROTATIONAL-VIBRATIONAL HYDROXYL BANDS N64-21892 15-12

MICROWAVE DETECTION OF HYDROXYL RADICAL IN INTERSTELLAR MEDIUM N64-22366 15-29

HYDROXYL ABSORPTION SPECTRUM IN SAGITTARIUS REGION OF GALAXY
HRAP-114 N64-24222 16-05

HIGH RESOLUTION MICROWAVE SPECTRA OF HYDROGEN AND HYDROXYL ABSORPTION LINES OF CASSIOPEIA A
N64-26301 18-05

HYDROXYL EMISSION WITH DIFFERENT VIBRATIONAL EXCITATION N64-32706 24-12

HYDROXYL EMISSION IN UPPER ATMOSPHERE
N64-32707 24-12

HYGIENE
SEE HEALTH

CF SANITATION
OUTLINE OF SOVIET LITERATURE ON HUMAN ENGINEERING - PHYSIOLOGY, PSYCHOLOGY, AND HYGIENE
JPRS-18772 N64-10505 01-14

HYGIENE & SANITATION - EFFECT OF LOW CONCENTRATION OF FLUORINE, SANITARY INDICES FOR WATER RESERVOIR, AND AIR IONIZATION
JPRS-19067 N64-11064 02-16

HYGIENE & SAFETY FACTORS FOR WORKING CONDITIONS
JPRS-19068 N64-11856 03-01

HYGIENIC PROBLEMS IN RADIOACTIVE CONTAMINATION OF OUTER SPACE
JPRS-23284 N64-15397 07-16

BERYLLIUM TOXICOLOGY, SYMPTOMATOLOGY OF AFFECTIONS, AND INDUSTRIAL HYGIENE FOR BERYLLIUM PRODUCTION
FTD-TT-63-578/1&2 N64-22352 15-16

HYGIENIC CHARACTERISTICS OF INDUSTRIAL RHENIUM AEROSOL
JPRS-26069 N64-27671 19-16

HYGIENE AND SANITATION IN USSR
JPRS-26305 N64-28430 20-16

HYGROMETER
AUTOMATIC FROST POINT HYGROMETER FOR MEASUREMENT OF STRATOSPHERIC DISTRIBUTION OF WATER VAPOR
R-RD-6300 N64-25830 17-15

HYSTERESIS-FREE AND THEORETICALLY PREDICTABLE LIQUID PHASE ABSORPTION HYGROMETER
AFCRL-64-493 N64-29981 21-15

DESIGN CONSIDERATIONS FOR SHORT PATH, OPEN SAMPLE INFRARED HYGROMETER - ATMOSPHERIC ABSORPTION AND PHOTOCONDUCTORS N64-31848 23-15

THERMODYNAMIC PROPERTIES OF WATER VAPOR UNDER LOW ATMOSPHERIC TEMPERATURES AND PRESSURES - HYGROMETRIC TABLES
RM-4244-PR N64-32177 23-21

HYPERBOLIC ORBIT
CONVERGENCE OF COORDINATE EXPANSIONS OF UNDISTURBED ELLIPTICAL AND HYPERBOLIC MOTIONS
MH-TRANS-422 N64-11568 03-20

PARABOLIC, HYPERBOLIC AND ELLIPTICAL BALLISTIC TRAJECTORY CALCULATIONS
NASA-CR-53850 N64-19603 12-05

OPTIMUM LAUNCHING OF BODY INTO HYPERBOLIC ORBIT BY TWO UNEQUAL IMPULSES
PIBAL-824 N64-22680 15-29

APPROXIMATE ANALYSIS OF OPTIMUM LOW THRUST TRANSFER BETWEEN COPLANAR HYPERBOLIC ORBITS
VKI-TN-15 N64-23675 16-22

HYPERBOLIC POSITION LINE
GEOMETRY AND FIRST-ORDER ERROR STATISTICS FOR THREE- AND FOUR-STATION HYPERBOLIC POINT LOCATIONS ON SPHERICAL EARTH
AFCRL-64-461 N64-31805 23-12

HYPERBOLIC SYSTEM
GRAPHIC METHOD OF CALCULATING AND PLOTTING HYPERBOLIC NET FOR RADIOGEODETIC OPERATIONS
JPRS-17874 N64-10490 01-12

HYPERBOLIC SYSTEM OF EXTRAPOLATION FOR ITERATIVE SOLUTION TO EQUATIONS
RM-3975-PR N64-21917 15-20

FLIGHT TESTS OF OMEGA VERY LOW FREQUENCY LONG-RANGE HYPERBOLIC RADIO NAVIGATION SYSTEM
NRL-MR-1543 N64-30739 22-08

HYPERCHAIN EQUATION OF STATE
S COMPRESSIBILITY
S MONTE CARLO METHOD
S PRESSURE

HYPERGOLIC PROPELLANT
RELATION OF CHEMICAL COMPOSITION TO IGNITION CHARACTERISTICS OF HYPERGOLIC LIQUID BIPROPELLANTS
N64-10005 01-24

IGNITION DELAYS OF HYPERGOLIC LIQUID ROCKET PROPELLANTS
WSS/CI PAPER-64-12 N64-24376 17-24

FACILITY FOR TESTING ROCKET PROPULSION SYSTEMS USING HIGH ENERGY, TOXIC, HYPERGOLIC PROPELLANTS UNDER SIMULATED SPACE ENVIRONMENT
RTD-TDR-63-1083 N64-31171 22-10

HYPERON
FREE HYPERON INTERACTIONS, BUBBLE CHAMBER & NUCLEAR EMULSION STUDIES, HYPERFRAGMENTS, AND HYPERNUCLEAR PHYSICS
CERN-64-1 N64-19061 11-23

NONLEPTONIC DECAYS OF HYPERONS
TH-45 N64-19244 11-23

ANGULAR DISTRIBUTION AND POLARIZATION MEASUREMENTS OF HYPERON REACTION USING PHENOMENOLOGICAL MODEL
N64-21344 14-23

S-WAVE AMPLITUDES FOR NONLEPTONIC DECAYS OF HYPERONS
UR-875-32 N64-25549 17-23

PHENOMENOLOGICAL MODEL APPLIED TO KAON-SIGMA HYPERON PHOTOPRODUCTION
TH-63 N64-28932 20-23

HYPEROXIA
LIPID PEROXIDES ROLE IN HYPEROXIA EFFECT ON RAT CENTRAL NERVOUS SYSTEM N64-14607 06-16

ENDOCRINE & METABOLIC EFFECTS OF SHORT DURATION HYPEROXIA
SAM-TDR-64-6 N64-18917 11-16

HYPERPLANE
RIGIDITY OF MOTION IN SLIDING HYPERPLANE FOR AUTOMATIC CONTROL SYSTEMS WITH VARIABLE STRUCTURE - CYBERNETICS N64-12466 04-20

HIGHEST DEGREE OF STABILITY AND RIGIDITY OF MOTION OF SLIDING HYPERPLANE N64-12467 04-20

HYPERSONIC AIRCRAFT
COMPUTER PROGRAMS FOR BOUNDARY LAYERS AND INVISCID FLOW FIELD AROUND HYPERSONIC AIRCRAFT
NASA-CR-53397 N64-18134 10-11

AERODYNAMIC DESIGN AND LAUNCH CONCEPTS FOR HYPERSONIC AIRCRAFT
FTD-TT-62-1304/1 N64-19421 12-04

AERODYNAMICS AND DESIGN OF HYPERSONIC AIRCRAFT
N64-19422 12-04

AIR LAUNCHED HIGH ALTITUDE HYPERSONIC AIRCRAFT
N64-19423 12-04

X-15A HYPERSONIC AIRCRAFT AND APPLICATION TO SPACE EXPLORATION
NASA-RP-139 N64-20017 13-04

HYPERSONIC PROPULSION & HYPERSONIC AIRCRAFT
NASA-TM-X-56001 N64-20549 13-04

EFFECT OF EXHAUST NOZZLE RECOMBINATION ON HYPERSONIC RAMJET PERFORMANCE
AIAA PAPER-63-118 N64-23271 16-11

SPECIFICATIONS FOR HEAT SINK FUELS FOR HYPERSONIC AIRCRAFT
S-13911 N64-25780 17-24

RECOVERABLE HYPERSONIC AIRCRAFT AS BOOSTER SYSTEM
AIAA PAPER-64-543 N64-26409 18-21

MISSION ANALYSIS OF HYDROGEN FUELED HYPERSONIC TRANSPORTS
AIAA PAPER-64-605 N64-27753 19-04

HYPERSONIC FLIGHT
HYPERSONIC STABILITY AND CONTROL UNDER TRIMMED FLIGHT CONDITIONS
R-63-011-104 N64-18706 11-04

ABLATION PROPERTIES OF TEFLON ON BLUNTED CYLINDER FLARE CONFIGURATION DURING HYPERSONIC FLIGHT
NASA-TN-D-2354 N64-25189 17-30

PLASMA IN HIGH TEMPERATURE FLOW SURROUNDING HYPERSONIC PROJECTILE IN FLIGHT
N64-26146 18-24

RADIATION TRANSFER REGIMES IN HYPERSONIC FLIGHT
N64-26335 18-13

CALIBRATION OF RADIOMETERS USED ON HYPERSONIC FREE FLIGHT RANGES
CARDE-TR-500/64 N64-29394 21-15

BODY FLAPS, SPOILERS, & COLD GAS REACTION JETS FOR CONTROL IN HYPERSONIC FLIGHT
OR-3719 N64-30761 22-02

LOW DENSITY EFFECTS ON CONVECTIVE HEAT TRANSFER IN HYPERSONIC FLIGHT
REPT.-615045 N64-33838 24-13

HYPERSONIC FLOW
REAL GAS HYPERSONIC NOZZLE FLOW PARAMETERS FOR NITROGEN IN THERMODYNAMIC EQUILIBRIUM
NASA-TN-D-2019 N64-10057 01-02

HYPERSONIC AREA RULE FOR BLUNT BODIES - MASS OF GASES CONCENTRATED IN THIN LAYER CONTIGUOUS TO SHOCK WAVE
FTD-TT-62-1311/1&2&4 N64-10248 01-02

APPROXIMATION OF HYPERSONIC NONEQUILIBRIUM AIRFLOWS PAST BLUNT BODIES
CARDE-TR-458/63 N64-10472 01-11

SEPARATION & CONTROL CHARACTERISTICS OF HYPERSONIC FLOW - PRESSURE DISTRIBUTIONS
ASD-TDR-63-755 N64-10539 01-03

ASYMPTOTIC FLOW PAST BLUNT BODIES AT HYPERSONIC SPEEDS WITH SHOCK WAVE PROFILES
NPL-AERO-1051 N64-11238 02-03

APPROXIMATE SOLUTION FOR FLOW OVER AXISYMMETRIC CONES AT HYPERSONIC VELOCITIES
RM-221 N64-11239 02-02

FLUID DYNAMICS, ELECTRONICS, AERODYNAMICS, HYPERSONICS, VERTICAL TAKEOFF, AND SEPARATED FLOW STUDIES N64-11878 03-01

PRESSURE & HEAT TRANSFER DATA FOR HYPERSONIC FLOWS OVER EXPANSION CORNERS AND AHEAD OF RAMPS
ASD-TDR-63-679, PT. 1 N64-12228 03-13

HYPERSONIC FLOW OF IDEAL OR REAL GAS PAST BLUNT BODIES OF GIVEN SHAPE N64-12484 04-02

APPROXIMATE CALCULATION OF HYPERSONIC CONICAL FLOW PARAMETERS FOR AIR IN THERMODYNAMIC EQUILIBRIUM
NASA-TN-D-2058 N64-12716 04-11

MATHEMATICAL DESCRIPTION OF GAS FLOW AROUND THIN BODIES WITHOUT IONIZATION OR DISSOCIATION AT HYPERSONIC VELOCITIES
FTD-TT-63-899/1&2 N64-12850 04-02

HYPERSONIC FLOW WITH NONEQUILIBRIUM DISSOCIATION AROUND BLUNT BODIES IN FLOW FACILITIES & FREE FLIGHT
NASA-CR-55138 N64-13055 04-11

NONEQUILIBRIUM HYPERSONIC FLOW OF AIR IN HYPERSONIC NOZZLES & AROUND BLUNT BODIES
NASA-CR-55139 N64-13188 04-02

FLAT PLATE SKIN FRICTION NEAR SHARP LEADING EDGES IN LOW DENSITY HYPERSONIC FLOW
ARL-63-224 N64-14693 06-11

NONEQUILIBRIUM THERMAL IONIZATION OF AIR IN HYPERSONIC FLOWS OVER SHARP CONES
BSD-TDR-63-231 N64-14780 06-11

MAGNETIZED BODY HYPERSONIC FLOW EQUATIONS NEAR STAGNATION POINT
RM-3970-PR N64-15360 07-24

PROBLEMS IN HYPERSONIC FLOWS AND WIND TUNNELS
ARL-63-227 N64-15517 07-11

HYPERSONIC FLOW THEORY - BIBLIOGRAPHY
AFOSR-4785 N64-15617 07-11

HYPERSONIC FLOW PAST AXISYMMETRIC BODIES FLYING AT ANGLE OF ATTACK
FTD-TT-63-406/1&2&4 N64-16366 08-02

HYPERSONIC AND SUPERSONIC FLOW WITH SEPARATION ZONES
AD-430303 N64-16388 08-02

AERODYNAMIC FORCES ON BODY SURROUNDED BY HYPERSONIC FLOW WITH SEPARATION ZONE
N64-16390 08-02

HYPERSONIC VISCOUS INTERACTION ON FLAT PLATE WITH MASS TRANSFER AT PLATE SURFACE
RM-3000-PR N64-16473 08-02

PRESSURE & HEAT TRANSFER MEASUREMENTS FOR HYPERSONIC FLOW OVER FLAT PLATES
ASD-TDR-63-679, PT. 3 N64-16775 08-02

RAREFIED HIGH TEMPERATURE HYPERSONIC SLIP FLOW OVER FLAT PLATE WITH SHARP LEADING EDGE
AD-432130 N64-16854 08-02

PRESSURE DISTRIBUTIONS FOR HYPERSONIC FLOWS OVER SHARP EXPANSION CORNER AND RAMPS ON INTERNALLY COOLED MODEL
RTD-TDR-63-4044, PT. I N64-16872 08-02

INVISCID REACTING FLOW FIELD ABOUT AXIALLY SYMMETRIC BODY SHAPE AT HYPERSONIC FLOW
R63SD90 N64-16982 09-38

INDUCED PRESSURES AND SHOCK SHAPES ON BLUNT CONES IN HYPERSONIC FLOW - EXTENSION OF BLAST-WAVE PARAMETERS
NASA-TN-D-2182 N64-17158 09-02

LOCAL LEADING EDGE HEAT TRANSFER ON FLAT PLATE IN RAREFIED HYPERSONIC FLOW
AS-63-8 N64-17281 09-09

MODEL FOR TRANSITION REGIME IN HYPERSONIC RAREFIED GAS DYNAMICS
R63SD85 N64-17435 09-11

PRESSURE MEASUREMENTS FOR HYPERSONIC FLOWS OVER BLUNT PYRAMID CONFIGURATION COMPOSED OF SWEPTBACK DELTA WING & TWO DIHEDRAL SURFACES
RTD-TDR-63-4239 N64-17525 09-02

PRESSURE & HEAT TRANSFER DATA FOR HYPERSONIC FLOW OVER BLUNT PYRAMID CONFIGURATION COMPOSED OF SWEPTBACK DELTA WING & TWO DIHEDRAL SURFACES
FDL-TDR-64-2, PT. 1 N64-17526 09-02

PRESSURE DATA FOR MACH 5 FLOWS OVER WINGED REENTRY CONFIGURATION COMPOSED OF DELTA WING MOUNTED, CONICALLY CAPPED CYLINDRICAL CABIN
RTD-TDR-63-4179, PT. 2 N64-17654 09-04

RAREFIED HYPERSONIC FLOW ABOUT BLUNT AXISYMMETRIC BODIES, CYLINDERS NORMAL TO & INCLINED TO STREAM, AND POINTED CONES
ARL-64-27 N64-18019 10-11

PRESSURE MEASUREMENTS FOR HYPERSONIC FLOW OVER WINGED REENTRY CONFIGURATION COMPOSED OF CABIN ON SWEPTBACK DELTA WING
RTD-TDR-63-4179, PT. 1 N64-18025 10-30

MEASUREMENTS OF RADIO NOISE PRODUCED BY HYPERSONIC PLASMA SHEATH
AD-429411 N64-18354 10-24

SUPERSONIC DIFFUSER PERFORMANCE IN HYPERSONIC, LOW DENSITY FLOW

AEDC-TDR-64-47 N64-18602 11-02

LECTURE NOTES FOR COURSE ON HYPERSONIC FLOW THEORY
SUDAER-154 N64-18825 11-11

SUPERSONIC AND HYPERSONIC FLOW BEHIND CURVED SHOCK WAVES
REPT.-64-2 N64-19027 11-02

AERODYNAMIC DRAG OF BLUNT CONES IN HYPERSONIC RAREFIED FLOW OF NITROGEN AND ARGON
AEDC-TDR-64-60 N64-19067 11-02

NUMERICAL ANALYSIS FOR SOLVING BLUNT BODY PROBLEM IN HYPERSONIC FLOW BEHIND AXISYMMETRIC SHOCK WAVE
CARDE-TR-480 N64-19288 11-02

INTERACTION OF OBLIQUE SHOCK WAVES OF VARIED INTENSITIES IN HYPERSONIC FLOW
ARL-63-146 N64-19391 12-11

HYPERSONIC PLANE AND AXISYMMETRIC FLOW AROUND BLUNT BODY
ARL-64-26 N64-19648 12-11

WEAK INTERACTION EFFECT ON CONICAL BODIES IN HYPERSONIC FLOW
ARL-64-37 N64-19668 12-02

PRESSURE, HEAT TRANSFER & FORCE DISTRIBUTION ON SLAB DELTA WING IN AIR AND HELIUM HYPERSONIC FLOW
NASA-TR-R-153 N64-19721 12-02

AERODYNAMIC FORCES ACTING ON RANDOM BODIES WITH FRONTAL DISRUPTION ZONE IN HYPERSONIC FLOWS
FTD-TT-63-1206/1&2 N64-19764 12-02

NORMAL AND OBLIQUE SHOCK WAVE PARAMETERS WITH DISSOCIATED AMBIENT CONDITIONS IN HYPERSONIC FLOW
U-RD-6333 N64-20697 13-11

RADIATION EMISSION IN NONEQUILIBRIUM SHOCK LAYERS OF BLUNT REENTRY BODIES IN HYPERSONIC FLOW
CARDE-TR-496/64 N64-20883 14-02

LAMINAR BOUNDARY LAYER TRANSITION ON TEN-DEGREE CONE IN HYPERSONIC FLOW
REPT.-64-RL-/3622C/ N64-21057 14-11

FREE FLIGHT MEASUREMENTS OF HYPERSONIC FLOW AROUND ABLATING AND NONABLATING SPHERES, SPHERE-CAPPED CYLINDERS, AND CONES
GTR-63-224 N64-21170 14-02

VERY LOW ASPECT RATIO WINGS IN HYPERSONIC FLOW
NOLTR-63-239 N64-21453 14-03

APPROXIMATION METHOD OF COMPUTING THREE-DIMENSIONAL LAMINAR BOUNDARY LAYER FOR BLUNT BODY IN HYPERSONIC FLOW
FTD-TT-63-1136/1 N64-21663 15-11

PRESSURE AND HEAT TRANSFER MEASUREMENTS FOR HYPERSONIC FLOWS OVER BLUNT BODY WITH AERODYNAMIC CONTROL
FDL-TDR-64-2, PT. IV N64-22682 15-02

NUMERICAL CALCULATIONS OF HYPERSONIC AIR FLOWS OVER POINTED AND SPHERICALLY TIPPED BODIES AT SMALL ANGLES OF YAW
AIAA PAPER-64-430 N64-23328 16-02

HYPERSONIC & SUPERSONIC FLOWS, BOUNDARY LAYERS, STAGNATION REGIONS, PLASMA ACCELERATION, AND SHOCK TUNNEL EQUATION
FTD-TT-63-79/1&2 N64-23676 16-01

HYPERSONIC FLOW PAST SLENDER BLUNT ELLIPTIC CONES
N64-23677 16-11

HYPERSONIC FLOWS OVER FULL SPAN RAMPS MOUNTED ON FLAT PLATE
RTD-TDR-63-4044, PT. III N64-24143 16-11

REAL AIR HYPERSONIC SHOCK-HEATED FLOW PARAMETERS AT HIGH SPEEDS AND HIGH ALTITUDES
NASA-TR-R-163 N64-24592 17-13

HYPERSONIC FLOW PAST AIRFOILS AT LARGE ANGLES OF ATTACK
NASA-TT-F-8696 N64-25051 17-03

HEAT TRANSFER DATA FOR DELTA WING SURFACE IN HYPERSONIC FLOW
FDL-TDR-64-2, PT. III N64-25394 17-13

PARAMETRIC STUDY OF HYPERSONIC FLOW FIELDS ABOUT BLUNT-NOSED CYLINDERS AT ZERO ANGLE OF ATTACK
NASA-TN-D-2342 N64-25711 17-02

HIGH TEMPERATURE PHENOMENA IN HYPERSONIC FLOWS
AEDC-TDR-64-143 N64-25794 17-13

EFFECT OF AMBIENT DISSOCIATION OF FROZEN HYPERSONIC STAGNATION FLOW
AEDC-TDR-64-142 N64-25795 17-11

HYPERSONIC MAGNETOHYDRODYNAMICS WITH OR WITHOUT BLUNT BODY
NASA-CR-88 N64-25968 18-24

HIGH TEMPERATURE ASPECTS OF HYPERSONIC FLOW
AGARDOGRAPH-68 N64-26126 18-01

HYPERSONIC FLOW AERODYNAMIC CHARACTERISTIC PROBLEMS OF THE FUTURE N64-26127 18-13

THEORETICAL STUDIES OF INVISCID HYPERSONIC FLOWS WITH CHEMICAL REACTIONS N64-26133 18-02

HYPERSONIC FLOW FIELD CALCULATIONS - THREE DIMENSIONAL AND REAL GAS FLOWS N64-26134 18-02

MASS FLOW PROBE FOR SHORT DURATION HYPERSONIC FLOW N64-26139 18-13

STUDIES OF HOT HYPERSONIC FLOWS BY EXTERIOR METHODS N64-26151 18-13

DROPLET EVAPORATION AND COMBUSTION IN HYPERSONIC STREAM N64-26480 18-11

CONICAL BODIES OF LEAST RESISTANCE IN HYPERSONIC GAS FLOW
NASA-TT-F-8920 N64-26770 18-02

BOUNDARY LAYER ON SEMI-INFINITE FLAT PLATE WITH BLUNT LEADING EDGE IN HYPERSONIC FLOW
NASA-TT-F-9022 N64-27136 19-11

MOTION EQUATIONS FOR HYPERSONIC FLOW OF MAGNETOGASDYNAMIC MEDIUM
DVL-347 N64-27221 19-11

NONEQUILIBRIUM ELECTRON DENSITY DISTRIBUTIONS IN HYPERSONIC FLOWS OF AIR AROUND BLUNT BODIES
CARDE-TR-503/64 N64-27414 19-11

AERODYNAMIC DRAG ON SPIKED BLUNT BODIES IN LOW DENSITY HYPERSONIC FLOW
AEDC-TDR-64-160 N64-28605 20-02

INFRARED EMISSION FROM HYPERSONIC AIR FLOWS AND REENTRY FLOW FIELD ANALYSIS
CAL-QM-1626-A-15 N64-29649 21-11

USE OF SHOCK TUBES IN STUDY OF CHEMICAL REACTIONS AND HYPERSONIC FLOW
PSU-11-P N64-29798 21-11

NEWTON-BUSEMANN PRESSURE LAW FROM EQUATIONS GOVERNING UNSTEADY HYPERSONIC FLOW OVER STATIONARY BODIES
TDR-269/4230-30/-6 N64-29821 21-11

CHEMICAL REACTIONS IN LAMINAR BOUNDARY LAYERS IN HYPERSONIC FLOW
PIBAL-835 N64-29963 21-11

ANALOG DATA ON HYPERSONIC FLOW OF PERFECT FLUID ABOUT BLUNT BODIES
FDL-TDR-64-92 N64-30926 22-02

RADIATIVE HEATING OF BLUNT BODY IN HYPERSONIC FLOW BY SHOCK WAVE EMISSION N64-31529 23-13

HYPERSONIC FLOW PERTURBATIONS AS SOLUTION TO FLOW PROBLEMS AROUND SLENDER BLUNT BODIES

FTD-MT-64-59 N64-31772 23-02

TURBULENCE IN BLUNT- AND SLENDER-BODY HYPERSONIC WAKE FLOWS
TR-64-02H N64-32027 23-11

PRESSURE GRADIENT AND REYNOLDS NUMBER EFFECTS ON BOUNDARY LAYER TRANSITION IN HYPERSONIC FLOW
RAE-TRANS.-1073 N64-33439 24-11

PRESSURE AND HEAT TRANSFER MEASUREMENTS FOR HYPERSONIC FLOW OVER EXPANSION CORNERS AND AHEAD OF RAMPS
ASD-TDR-63-679, PT. IV N64-33529 24-02

PARAMETERS TO BE SIMULATED IN DYNAMIC TESTING OF SUBLIMING BODIES IN HYPERSONIC FLOW
TR-453 N64-33586 24-02

HYPERSONIC HEAT TRANSFER
HEAT TRANSFER AND PRESSURE DISTRIBUTION ON FIN PLATE INTERFERENCE MODEL AT MACH 6
NASA-TN-D-2028 N64-25806 17-13

HYPERSONIC HEAT TRANSFER IN AIR LAMINAR BOUNDARY LAYER N64-26156 18-13

HYPERSONIC NOZZLE
CHEMICAL & IONIZATION PROCESSES IN HYPERSONIC NOZZLE AND AXISYMMETRIC BLUNT BODY FLOWS
ASD-TDR-62-1078 N64-12599 04-24

NONEQUILIBRIUM HYPERSONIC FLOW OF AIR IN HYPERSONIC NOZZLES & AROUND BLUNT BODIES
NASA-CR-55139 N64-13188 04-02

PITOT PRESSURE SURVEY OF LOW DENSITY, HYPERSONIC GAS FLOWS FROM EACH OF TWO CONICAL HYPERSONIC, CRYOGENIC PUMPING NOZZLES
ERR-AN-349 N64-16856 08-02

VIBRATIONAL RELAXATION AND RECOMBINATION OF NITROGEN AND AIR IN HYPERSONIC NOZZLE FLOWS
REPT.-63-RL-/3429C/ N64-21734 15-11

NOZZLE AND TEST SECTION FOR HYPERSONIC GUN TUNNEL
AU-II-166-1 N64-22100 15-02

EFFECTS OF VIBRATIONAL RELAXATION ON HYPERSONIC NOZZLE FLOWS N64-26129 18-02

HYPERSONIC SHOCK
DESCRIPTION OF HYPERSONIC SHOCK TUNNEL AND EXPERIMENTAL AND THEORETICAL PROGRAMS IN MAGNETOHYDRODYNAMICS
ARL-64-5 N64-19735 12-24

LIMITS ON BINARY SCALING OF HYPERSONIC SHOCK LAYER CHARACTERISTICS FROM MODEL TO FULL SCALE SIZE
CARDE-TR-499/64 N64-20884 14-02

SIMULATION OF MOVING SHOCK WAVE INTERACTION WITH HYPERSONIC SHOCK WAVE
FDL-TDR-64-9 N64-21444 14-23

DESIGN AND CONSTRUCTION OF HYPERSONIC SHOCK TUNNEL
REPT.-64-3 N64-25367 17-10

HYPERVELOCITY SHOCK TUNNEL
NASA-CR-56969 N64-25773 17-10

TEMPERATURE MEASUREMENTS IN HYPERSONIC SHOCK TUNNEL N64-26138 18-13

HYPERSONIC SHOCK TUNNEL FACILITIES EMPLOYING HEATED DRIVER GASES
NASA CR-56517 N64-26582 18-10

CAPABILITIES AND LIMITATIONS OF HYPERSONIC SHOCK TUNNEL FACILITIES AND INSTRUMENTATION
NOLTR-63-259 N64-31670 23-10

INSTRUMENTATION AND CALIBRATION OF HYPERSONIC SHOCK TUNNEL - LOADING SYSTEM IN COMBUSTION CHAMBER
REPT.-64-5 N64-32802 24-10

FLOW IN LOW PRESSURE HYPERSONIC SHOCK TUNNEL USING ELECTRON BEAM DENSITOMETER
NAL-TR-37T N64-32933 24-11

COMBUSTION TEST TO DEVELOP SPARK IGNITION SYSTEM OF STOICHIOMETRIC OXYGEN-HYDROGEN AND HELIUM MIXTURE FOR HYPERSONIC SHOCK TUNNEL
REPT.-64-12 N64-33071 24-26

TURBULENT HEAT TRANSFER, LEAKAGE, AND PRESSURE TESTS ON X-20 AIRCRAFT IN HYPERSONIC SHOCK TUNNEL
D2-80910 N64-33574 24-13

HYPERSONIC SPEED
PRESSURE DISTRIBUTION AND SHOCK STANDOFF DISTANCE FOR BLUNT CYLINDERS IN AIR AT HYPERSONIC SPEEDS
NASA-TN-D-1979 N64-10056 01-02

PRESSURE AND FORCE MEASUREMENT ON A SLENDER, BLUNT, CONE-CYLINDER-FLARE CONFIGURATION AT HYPERSONIC SPEED
ARC-CP-657 N64-10138 01-02

SOLUTIONS FOR NONADIABATIC SHOCK LAYER IN BLUFF BODY STAGNATION REGION AT HYPERSONIC SPEEDS
NASA-TR-R-159 N64-11560 03-13

EXACT SOLUTIONS FOR WINGS HAVING ONE AND TWO ATTACHED PLANE SHOCK WAVES AT HYPERSONIC SPEEDS
RAE-TRANS-1044 N64-12904 04-03

ROCKET MOTOR CASE OF REENTERING SPACECRAFT AT HYPERSONIC SPEED IN HELIUM
NASA-TN-D-2057 N64-12959 04-30

FLIGHT PRESSURE AND WIND TUNNEL DATA FOR FUSELAGE OF X-15 AIRCRAFT AT TRANSONIC TO HYPERSONIC SPEEDS
NASA-TN-D-2241 N64-12961 04-04

CYLINDRICALLY BLUNTED WEDGES TESTED AT HYPERSONIC SPEED AT VARIOUS ANGLES OF ATTACK N64-15634 07-03

SHOCK FRONT STRUCTURE IN OXYGEN IN SHOCK TUBE AT HYPERSONIC SPEEDS - DEFENDER PROJECT
AVCO-EVERETT RES. REPT.-169 N64-15939 07-24

SURFACE PRESSURE AND HEAT TRANSFER DISTRIBUTION ON BLUNT DELTA WINGS OF ELLIPTIC CROSS SECTION AT HYPERSONIC SPEED
ARL-63-231 N64-16061 07-03

WIND TUNNEL MEASUREMENT OF AERODYNAMIC CHARACTERISTICS OF AIRCRAFT MODEL AT HYPERSONIC VELOCITY
AEDC-TDR-64-31 N64-16062 07-04

HEAT TRANSFER AND SHADOWGRAPH TESTS OF ELLIPTICAL LIFTING BODIES WITH SHARP & BLUNT NOSE SHAPES AT HYPERSONIC SPEEDS
AEDC-TDR-64-19 N64-16075 07-02

FLOW FIELD ABOUT HEMISPHERE-CYLINDER BODY AT HYPERSONIC SPEED
FFA-92 N64-16975 09-02

EFFECT OF JOULE HEATING ON HEAT TRANSMISSION AT CRITICAL POINT - HYPERSONIC SPEEDS N64-17184 09-13

AERODYNAMIC CHARACTERISTICS OF TWO PLANETARY ENTRY CONFIGURATIONS IN AIR & CARBON DIOXIDE/NITROGEN MIXTURES AT HYPERSONIC SPEED
NASA-CR-53232 N64-17575 09-02

PITCHING AND YAWING MOTION OF SPINNING SYMMETRIC BLUNT-NOSED MISSILE AT HYPERSONIC SPEED
NASA-TN-D-2135 N64-17734 09-30

WALL TEMPERATURE MEASUREMENTS MADE ON 15-DEG CONE AT HYPERSONIC SPEEDS - AERODYNAMIC HEATING
ARC-R&M-3357 N64-18154 10-02

WIND-TUNNEL TESTING OF DYNAMICS OF BLUNT BODY SEPARATION AT HYPERSONIC SPEEDS
ORA-63-13 N64-18644 11-02

PROPULSION, AERODYNAMICS, TURBULENT FLOW, AND COMBUSTION AT HYPERSONIC SPEEDS N64-18719 11-27

AERODYNAMIC AND ROCKET BRAKING OF BLUNT NONLIFTING VEHICLES DURING ATMOSPHERIC ENTRY AT HYPERSONIC SPEEDS
NASA-TN-D-2239 N64-18731 11-30

EFFECTS OF CONTROLLED SURFACE ROUGHNESS ON BOUNDARY LAYER TRANSITION AND HEAT TRANSFER AT HYPERSONIC SPEEDS
NASA-TN-D-2054 N64-18953 11-11

ULTRAVIOLET AND VISIBLE RADIATION FROM SHOCK CAP REGION FOR LEXAN AND ALUMINUM SPHERES TRAVELING AT HYPERSONIC SPEEDS IN AIR
CARDE-TR-491/64 N64-19325 12-24

STATIC STABILITY OF BLUNT BODY OF REVOLUTION AT HYPERSONIC SPEED IN HELIUM
NASA-TN-D-2282 N64-19478 12-02

AIRCRAFT CONFIGURATIONS FOR SUPERSONIC & HYPERSONIC FLIGHT N64-20292 13-04

FREE FLIGHT TESTS OF SUBLIMING ABLATORS AND TRANSPIRATION COOLING AS THERMAL PROTECTION AT HYPERSONIC SPEEDS N64-20295 13-13

CONTROL SURFACE INTERACTION EFFECTS ON DELTA WING WINDWARD PRESSURES AT HYPERSONIC SPEEDS AND HIGH ANGLES OF ATTACK
NASA-TN-D-2332 N64-23028 16-03

PERFORMANCE OF SUPERSONIC COMBUSTION RAMJETS AT HYPERSONIC FLIGHT SPEED
AIAA PAPER-64-248 N64-23346 16-27

COMPUTER PROGRAM FOR TURBULENT BOUNDARY LAYER OF INVISCID FLOW AT HYPERSONIC SPEEDS
NASA-CR-56368 N64-23996 16-11

HEAT-TRANSFER RATES AND ABLATION ON BLUNT FLARED CYLINDER IN FREE FLIGHT AT HYPERSONIC AND LOWER SPEEDS
NASA-TN-D-2383 N64-27505 19-13

PREDICTING GASEOUS RADIATION CHARACTERISTICS OF BLUNT BODIES AT HYPERSONIC SPEEDS - ULTRAVIOLET EMISSION
CARDE-TR-504/64 N64-28015 20-11

EFFECTS OF SURFACE PERTURBATIONS ON PRESSURE DISTRIBUTIONS ABOUT BLUNT TWO-DIMENSIONAL BODIES AT HYPERSONIC SPEEDS
FDL-TDR-64-17 N64-28549 20-02

MINIMUM DRAG SHAPES FOR BODIES WITH CROSS SECTIONAL ELLIPTICITY AT HYPERSONIC SPEEDS AND ZERO ANGLE OF ATTACK
NASA-TN-D-2432 N64-28722 20-02

STATIC AERODYNAMIC CHARACTERISTICS OF BLUNTED CONES AND ROUNDED CYLINDERS AT SUPERSONIC AND HYPERSONIC SPEEDS
NASA-CR-58666 N64-29212 21-02

FLOW EFFECTS ON AERODYNAMIC CHARACTERISTICS OF SEVERAL CONFIGURATIONS OF CONICAL CONTOURED NOZZLES AT HYPERSONIC SPEED
NASA-TN-D-2489 N64-29496 21-02

SUBLIMATION OF GRAPHITE AT HYPERSONIC SPEEDS
R64SD55 N64-31036 22-19

AERODYNAMIC ABLATION OF METAL SPHERE AT HYPERSONIC SPEEDS
NRL-5953 N64-31689 23-13

TRANSITION FROM LAMINAR FLOW TO TURBULENT FLOW IN BOUNDARY LAYER OF WIND TUNNEL MODEL AT HYPERSONIC SPEED
REPT.-64[illegible] N64-32141 23-11

SURFACE PRESSURES ON BLUNT PLATE WING AT SUPERSONIC AND HYPERSONIC SPEEDS
FDL-TDR-/4/-102 N64-32481 23-03

CHARTS OF EQUILIBRIUM REAL-GAS STAGNATION POINT CONDITIONS ON SPHERE FOR HIGH ALTITUDES AND HYPERSONIC SPEEDS
NOLTR-64-41 N64-32537 23-13

ABLATION FROM LEXAN SPHERES AND CONES AT HYPERSONIC SPEED - RELATION BETWEEN MASS AND HEAT TRANSFER RATES FROM ANALYSES OF BOUNDARY LAYER
CARDE-TR-511/64 N64-33143 24-13

HYPERSONIC TEST APPARATUS
HYPERSONIC FREE-PISTON TUNNEL
RAC-1884 N64-15344 07-16

DESIGN, PERFORMANCE, AND OPERATION OF HYPERSONIC GUN TUNNEL
CP-3 N64-15853 07-10

HYPERSONIC VEHICLE
CALCULATED RADIO ATTENUATION DUE TO PLASMA SHEATH ON HYPERSONIC BLUNT-NOSED CONE N64-11900 03-24

HORIZONTAL LANDING TECHNIQUES FOR HYPERSONIC VEHICLES
AGARD-428 N64-13882 05-04

CYLINDER DRAG FORCES IN HYPERSONIC FREE JET OF RAREFIED AIRSTREAM
AS-64-3 N64-17280 09-02

FLOW IN WAKE OF HYPERSONIC VEHICLES
RAD-TM-63-33, REV. 1 N64-21557 15-11

RADIATION MEASUREMENTS FROM PLASMA SHEATH SURROUNDING HYPERSONIC PROJECTILE N64-26154 18-24

REAL GAS EFFECT ON KEROSENE FUELED HYPERSONIC RAMJET PERFORMANCE N64-26330 18-27

TERRESTRIAL, LONG DISTANCE, HYPERSONIC, REUSABLE AEROSPACE TRANSPORTER N64-32878 24-30

HYPERSONIC STATIC AND DYNAMIC STABILITY OF OGIVE AND OGIVE-CYLINDER FUSELAGES, AND OF RECTANGULAR AND DELTA WINGS
C910188-12 N64-33296 24-02

TRAJECTORY OF HYPERSONIC AERODYNAMIC LIFTING REENTRY VEHICLE IN BALLISTIC RANGE
CARDE-TR-512/64 N64-33471 24-02

HYPERSONIC WAKE
EQUILIBRIUM TURBULENT HYPERSONIC WAKE CHARACTERISTICS OF SLENDER CONE WITH DIFFERENT EDDY VISCOSITY COEFFICIENTS
R63SD71 N64-11292 02-02

HYPERSONIC CONE WAKE VELOCITIES FROM STREAK PICTURES
BSD-TDR-63-199 N64-12233 03-02

SPARK SCHLIEREN PHOTOGRAPHS OF FREE & SUPPORTED CONE AND SPHERE MODEL SUPERSONIC & HYPERSONIC WAKES
NASA-CR-53014 N64-13270 04-02

ANALYTICAL MODEL FOR INVESTIGATING ELECTROMAGNETIC SCATTERING PROPERTIES OF HYPERSONIC WAKES
RM-3649-ARPA N64-15379 07-23

HYPERSONIC CYLINDER WAKE N64-15636 07-02

HYPERSONIC LOW DENSITY WAKES N64-15637 07-02

FINITE DIFFERENCE CALCULATION OF HYPERSONIC AIR WAKES N64-15643 07-11

TURBULENT SCATTERING OF ELECTROMAGNETIC WAVES BY HYPERSONIC WAKE FLOWS
R63SD58 N64-15942 07-23

GAS DYNAMICS AND CHEMICAL KINETIC EQUATIONS FOR HYPERSONIC CONTAMINATED NONEQUILIBRIUM WAKE SOLVED BY FINITE-DIFFERENCE SCHEME
R63SD68 N64-15959 07-24

LAMINAR HYPERSONIC WAKE LENGTH DURING BALLISTIC REENTRY OF BLUNT OBJECTS N64-16570 08-30

HYPERSONIC LAMINAR AND TURBULENT VISCOUS WAKE AT CHEMICAL EQUILIBRIUM
R63SD01 N64-17368 09-11

HYPERSONIC WAKE BRIGHTNESS TEMPERATURE MEASUREMENT FOR BLUNT BODIES
GDA63-0506 N64-20139 13-24

ELECTRON DENSITY IN WAKE OF HYPERVELOCITY PELLET
TR-307 N64-21145 14-24

AIR RADIATION FROM NONEQUILIBRIUM WAKES OF BLUNT HYPERSONIC REENTRY VEHICLES
RM-4071-ARPA N64-22616 15-11

AIR IONIZATION IN HYPERSONIC LAMINAR WAKE OF SHARP CONES
BSD-TDR-64-81 N64-25245 17-03

BASE PRESSURE AND AXIAL DISTRIBUTIONS OF DENSITY AND TEMPERATURE IN LAMINAR HYPERSONIC NEAR WAKES
R64SD35 N64-25532 17-11

MEASUREMENT OF DIAMETER OF ELECTRONIC WAKE OF HYPERSONIC PELLETS
TR-342 N64-25992 18-24

CORRELATION OF HYPERSONIC WAKE TRANSITION LENGTH DATA
ESD-TDR-64-424 N64-27642 19-11

REENTRY PHYSICS RESEARCH - CHEMICAL REACTIONS IN SHOCK HEATED GAS MIXTURES, HYPERVELOCITY WAKE STUDIES, AND LIGHT GAS GUN AND SHOCK TUBE FACILITY DEVELOPMENT
GDA-DBE64-034 N64-27692 19-23

TEMPERATURE MEASUREMENTS OF NEAR WAKE GENERATED BY HYPERVELOCITY PROJECTILE
CARDE-TR-502/64 N64-29423 21-13

BALLISTIC MISSILE REENTRY STUDIES - NONEQUILIBRIUM TURBULENT WAKE FLOW, BASE FLOW, INJECTION AND ABLATION, AND INVISCID NONEQUILIBRIUM FLOW
STL-6433-6007-SU-000 N64-30644 22-11

MODEL FOR CALCULATION OF RADAR BACKSCATTER FROM UNDERDENSE HYPERSONIC TURBULENT WAKES
AD-449234 N64-32603 23-11

NITROGEN INJECTION IN HYPERSONIC WAKE BASE REGION
MEMO-71 N64-33476 24-11

HYPERSONIC WIND TUNNEL
MEASUREMENT OF DIFFUSER PERFORMANCE, BLOCKAGE, STARTING LOADS, AND HUMIDITY IN HYPERSONIC WIND TUNNEL
ARC-CP-663 N64-10323 01-10

HIGH SPEED FLOW IN LOW-DENSITY, HYPERSONIC WIND TUNNELS WITH PLASMA GENERATORS
AEDC-TDR-63-241 N64-11440 03-24

WIND TUNNEL TEST SECTION CONDITIONS - DISSOCIATION OF OXYGEN AND STAGNATION LINE OF SPHERE
AEDC-TDR-63-243 N64-11450 03-02

TRAVERSING PROBE FOR PITOT-PRESSURE MAPPING IN HYPERSONIC WIND TUNNEL
SUDAER-170 N64-12320 03-15

WIND TUNNEL CAPABLE OF HYPERSONIC SPEEDS USING AIR AS WORKING FLUID
AFOSR-5329 N64-12645 04-10

HYPERSONIC WIND TUNNEL FOR STUDY OF REENTRY HEATING
SUDAER-164 N64-13975 05-10

HYPERSONIC WIND TUNNEL PRESSURE CONTROL SYSTEM
SUDAER-168 N64-13977 05-10

LARGE BLOW-DOWN HYPERSONIC WIND TUNNEL WITH METHANE-OXYGEN FIRED ZIRCONIUM OXIDE BED
ARL-63-223 N64-14682 06-10

HYPERSONIC FREE-PISTON TUNNEL
RAC-1884 N64-15344 07-16

PROBLEMS IN HYPERSONIC FLOWS AND WIND TUNNELS
ARL-63-227 N64-15517 07-11

DESIGN, PERFORMANCE, AND OPERATION OF HYPERSONIC GUN TUNNEL
CP-3 N64-15853 07-10

CALCULATING RETARDATION TEMPERATURE IN HYPERSONIC WIND TUNNEL WITH MOVABLE PISTONS
FTD-TT-63-312/1&2 N64-16364 08-10

HYPERSONIC AND SUPERSONIC WIND TUNNELS, GROUND EFFECT MACHINE, AND V/STOL MODEL TESTS
N64-17013 09-01

HYPERSONIC WIND TUNNEL STAGNATION CHAMBER TEMPERATURE STUDIES
SC-4976/RR/ N64-17596 09-10

IONIZATION IN HYPERSONIC WIND TUNNELS
NASA-CR-53363 N64-17816 09-24

AERODYNAMIC OPERATION OF HYPERSONIC VON KARMAN GAS DYNAMIC TUNNEL FACILITY
AD-435787 N64-18632 11-16

OPERATING RANGES AND CALIBRATION TESTS RESULTS OF HYPERSONIC WIND TUNNEL
ARL-63-189 N64-19306 12-10

DIFFUSER CONFIGURATION FOR HIGH TEMPERATURE HYPERSONIC WIND TUNNEL
FDL-TDR-64-4 N64-19632 12-02

HYPERSONIC WIND TUNNEL TESTS OF FORCE AND MOMENT CHARACTERISTICS OF SIMPLE WING SERIES IN AIR AND HELIUM
NASA-TN-D-2328 N64-22672 15-03

HYPERSONIC WIND TUNNEL FACILITIES
TOR-169/3305/-1 N64-22913 16-10

GRAPHS USED WITH HYPERSONIC WIND TUNNELS
ARL-64-56 N64-24202 16-02

REENTRY SIMULATION IN ARC HEATED HYPERSONIC WIND TUNNEL
NASA-TN-D-2344 N64-25188 17-10

STAGNATION-POINT GAS INJECTION COOLING ON HEMISPHERE-CONE IN HYPERSONIC ARC TUNNEL
NASA-TM-X-983 N64-25789 17-13

DIFFUSER PERFORMANCE AND MODEL BLOCKAGE EFFECTS IN HYPERSONIC OPEN-JET TUNNEL
NASA-TN-D-2384 N64-26002 18-02

BASE PRESSURE COEFFICIENTS FOR X-15 AIRCRAFT FOR MACH NUMBERS TO SIX COMPARED TO WIND TUNNEL DATA, SEMIEMPIRICAL ESTIMATES, AND THEORY
NASA-TN-D-2420 N64-27122 19-04

PERFORATED PLATE TECHNIQUE FOR IMPROVED OPERATION OF HYPERSONIC GUN TUNNEL
CP-6 N64-27349 19-10

PISTON MOTION IN HYPERSONIC GUN TUNNEL
CP-5 N64-27371 19-10

VIBRATIONAL RELAXATION OF NITROGEN IN HYPERSONIC WIND TUNNEL
NOLTR-63-221 N64-27955 20-11

BOUNDARY LAYER MEASUREMENT IN HYPERSONIC WIND TUNNEL CONICAL NOZZLE
ARL/A-215 N64-28419 20-11

FLOW VISUALIZATION IN HYPERSONIC WIND TUNNELS
AEDC-TDR-64-108 N64-31046 22-10

COMPONENTS, PERFORMANCE, AND OPERATION OF HYPERSONIC WIND TUNNEL
NOLTR-62-47 N64-31668 23-10

HYPERSONIC WIND TUNNEL TESTS OF MODELS IN AIR-CARBON DIOXIDE MIXTURES
NASA-CR-59033 N64-33196 24-02

HYPERSONIC WIND TUNNEL TEST OF BLUNT-NOSE FLARED CYLINDER MODEL FOR AERODYNAMIC CHARACTERISTICS IN AIR-CARBON DIOXIDE MIXTURES
NASA-CR-59186 N64-33218 24-02

HEAT TRANSFER TESTS ON SHOCK WAVE GENERATORS & THERMOCOUPLE AND STAINLESS STEEL FINS IN HYPERSONIC WIND TUNNEL
NASA-CR-58836 N64-33219 24-13

AERODYNAMIC BLAST SIMULATION IN HYPERSONIC WIND TUNNELS
SSD-TDR-64-175 N64-33349 24-10

HYPERTHERMIA
CHANGES IN CEREBRAL METABOLIC PARAMETERS OF DOGS DURING PROGRESSIVE HYPOTHERMIA
SAM-TDR-64-44 N64-29288 21-16

HYPERVELOCITY
SA HYPERSONIC SPEED
CALIBRATION OF HYPERVELOCITY IMPULSE TUNNEL
SM-43060 N64-14089 05-10

INVISCID NONADIABATIC FLOW AROUND BLUNT BODIES AT HYPERVELOCITIES
REPT.-6-90-64-1 N64-20680 13-02

RAIL-TYPE MAGNETOHYDRODYNAMIC ACCELERATOR - FEASIBILITY STUDY FOR HYPERVELOCITY GUN
NASA-CR-54028 N64-20723 13-23

HIGH VELOCITY GUNS FOR FREE FLIGHT RANGES
N64-26145 18-02

MEASUREMENT OF SHOCK DETACHMENT DISTANCE ON SPHERES FIRED IN AIR AT HYPERVELOCITIES
N64-26152 18-02

LEADING EDGE BLUNTNESS AND SLIP FLOW EFFECT IN HIGH TEMPERATURE HYPERVELOCITY FLOW OVER FLAT PLATE N64-26161 18-02

COMBUSTION PROCESSES OCCURING IN IMPLOSION DRIVEN HYPERVELOCITY LAUNCHER COMBUSTION CHAMBER
UTIAS-TN-71 N64-27563 19-26

RADIATIVE HEAT TRANSFER GAUGE FOR HYPERVELOCITY SHOCK TUBE
NASA-CR-58668 N64-29007 20-15

TRACER-SPARK TECHNIQUE FOR STUDY OF HYPERVELOCITY FLOW FIELDS
SUDAER-190 N64-32969 24-10

HYPERVELOCITY ACCELERATOR
ACCELERATORS AND LAUNCHERS FOR HYPERVELOCITY IMPACTS - SYMPOSIUM
AD-423798 N64-13511 05-23

HYPERVELOCITY IMPACT ACCELERATOR TECHNIQUES
N64-13512 05-23

LIGHT GAS TWO-STAGE HYPERVELOCITY ACCELERATOR
N64-13513 05-23

PERFORMANCE OF COMPRESSION HEATER FOR HYPER-VELOCITY ACCELERATOR N64-13514 05-23

HYPERVELOCITY ACCELERATOR - FACILITY, DESIGN, AND DESCRIPTION OF LIGHT GAS GUN N64-13515 05-23

HYPERVELOCITY LIGHT GAS ACCELERATOR USING ARC DISCHARGE HEATING OF DRIVER GAS
N64-13516 05-23

LIGHT GAS HYPERSONIC ACCELERATOR WITH CONSTRICTED BORE ACCELERATION AUGMENTATION N64-13517 05-23

MAGNETOHYDRODYNAMIC HYPERVELOCITY ACCELERATOR
N64-13518 05-23

INHIBITED JET CHARGE HYPERVELOCITY ACCELERATOR
N64-13519 05-23

HYPERVELOCITY ACCELERATORS - SHAPED CHARGE & TARGET PLATE ACCELERATORS N64-13520 04-23

HYPERVELOCITY IMPACT
PHENOMENA OF HYPERVELOCITY IMPACT INCLUDING METEOROID HAZARDS
NASA-CR-55266 N64-13393 04-23

MECHANICAL PROPERTIES OF SOLIDS, WAVE PROPAGATION & STRUCTURAL RESPONSE, HYPERVELOCITY IMPACT, AND FRACTURE
ASD-TDR-63-140 N64-13431 05-01

HYPERVELOCITY IMPACT - CRATERING IN SEMI-INFINITE TARGETS & PENETRATION OF SINGLE THIN TARGET
N64-13441 05-23

ACCELERATORS AND LAUNCHERS FOR HYPERVELOCITY IMPACTS - SYMPOSIUM
AD-423798 N64-13511 05-23

HYPERVELOCITY IMPACT ACCELERATOR TECHNIQUES
N64-13512 05-23

HYPERVELOCITY IMPACT STUDIES
AD-423063 N64-13521 05-23

HYDRODYNAMIC PHASE OF AXISYMMETRIC HYPERVELOCITY IMPACT
GA-3827 N64-13522 04-23

VISCOPLASTIC SOLUTION OF HYPERVELOCITY IMPACT CRATERING PHENOMENON N64-13523 05-23

STRESS WAVES IN SOLIDS - CALCULATIONS FOR HYPERVELOCITY IMPACTS N64-13524 05-23

MATHEMATICAL MODEL OF CRATER FORMATION BY HYPERVELOCITY IMPACT N64-13525 05-23

SPHERICAL SHOCK WAVES AND CAVITY FORMATION IN METALS WITH HYPERVELOCITY IMPACT
N64-13526 05-23

PROPERTIES OF SPHERICAL SHOCK WAVES CAUSED BY HYPERVELOCITY IMPACT N64-13527 05-23

SHOCK FRONT VARIATION IN TIME FOR HIGH SPEED IMPACT INTO WATER N64-13528 04-23

HYPERVELOCITY IMPACT - SYMPOSIUM
AD-423802 N64-13543 05-01

HYPERVELOCITY IMPACT - HISTORY OF EXPERIMENTATION
N64-13544 05-01

TWO-DIMENSIONAL ANALYSIS OF HYPERVELOCITY IMPACT ON VISCOPLASTIC PLATE N64-13545 04-23

METEOR BUMPER FOR PROTECTION AGAINST HYPERVELOCITY IMPACT N64-13546 05-34

HYPERVELOCITY IMPACT AND PENETRATION OF METAL TARGETS N64-13548 05-23

THIN PLATE PERFORATION AND PROTECTION - HYPERVELOCITY IMPACT N64-13551 05-23

HYPERVELOCITY IMPACT OF COPPER FILAMENTS INTO ALUMINUM TARGETS
NASA-TN-D-1981 N64-14726 06-02

HYPERVELOCITY IMPACT DATA FOR METEOROID PROTECTION
AE62-0092 N64-14899 06-02

HYPERVELOCITY IMPACT FLASH OF ALUMINUM SPHERES IMPINGING ON ALUMINUM PLATE AT LOW PRESSURE
NASA-TN-D-2232 N64-16118 08-23

TEMPERATURE-YIELD STRENGTH CORRELATION OF CRATER SIZE IN ALUMINUM BY HYPERVELOCITY IMPACT OF ALUMINUM SPHERES
NOLTR-63-142 N64-16649 08-23

ACCELERATION OF SPHERICAL & CYLINDRICAL PARTICLES AND HYPERVELOCITY IMPACT
NASA-CR-55899 N64-16712 08-23

SHOCK, PARTICLE VELOCITIES, AND BLAST WAVE EFFECTS OF PELLET IMPACT ON WAX TARGETS
BRL-1226 N64-17842 10-23

HYPERVELOCITY IMPACT CALCULATIONS USING PICWICK COMPUTER CODE
ATL-TDR-64-8 N64-18641 11-23

HYDRODYNAMIC PHASE OF HIGH VELOCITY SOLID-SOLID IMPACT INTERACTION WITH ATTENTION TO LATE STAGE

EQUIVALENCE
GA-5119 N64-19130 11-23

HYPERVELOCITY IMPACT STUDIES - METEOROID HAZARD TO AEROSPACE MATERIALS AND STRUCTURES
N64-19363 12-23

HYPERVELOCITY IMPACT OF SMALL GLASS SPHERES ON COMPOSITE SPACE STRUCTURES N64-19372 12-23

HYPERVELOCITY IMPACT ON TRANSPARENT PLASTICS - PROJECTILE CRATERING, SHOCK WAVES, & FRACTURING
AEDC-TDR-64-49 N64-20035 13-23

RADIOGRAPHIC STUDY OF CRATER GROWTH IN WAX UNDER HYPERVELOCITY IMPACT
BRL-1526 N64-20347 13-23

FABRICATION OF BERYLLIUM-CLAD TUBULAR HYPERVELOCITY IMPACT TARGETS BY GAS PRESSURE BONDING
NASA-CR-54058 N64-21008 14-17

TRANSMISSION STUDY OF SHOCK WAVES GENERATED BY HYPERVELOCITY IMPACT ON METALLIC AND NON-METALLIC TARGETS
AD-439301 N64-21576 15-23

FLUID IMPACT CRATERS AND HYPERVELOCITY - HIGH VELOCITY IMPACT EXPERIMENTS IN METALS AND ROCKS
NASA-CR-56359 N64-22459 15-12

METEOROID PUNCTURE DETECTION BY MEASUREMENT OF VISIBLE AND INFRARED RADIATION PRODUCED BY HYPERVELOCITY IMPACT PUNCTURE FLASH
NASA-CR-56562 N64-23518 16-30

MICROMETEORITE HYPERVELOCITY IMPACT
NASA-CR-54057 N64-24989 17-05

RECORDING METHODS FOR X-RAY OR GAMMA RADIATION HYPERVELOCITY IMPACT STUDIES
REPT.-4728-1200-VI N64-25243 17-15

ENERGY PARTITIONING IN HIGH VELOCITY IMPACT IN LEAD AND COPPER
UU-14 N64-25345 17-23

TRANSIENT-HYPERVELOCITY IMPACT PHENOMENA IN TRANSPARENT TARGET
BRL-MEMO-1567 N64-28157 20-33

HYPERVELOCITY IMPACT DAMAGE CHARACTERISTICS IN ARMORED SPACE RADIATOR TUBES - METEOROID HAZARD
NASA-TN-D-2472 N64-28985 20-33

DETECTION OF FLASH FROM HYPERVELOCITY IMPACT IN SPACE
ATL-TDR-64-24 N64-29098 21-28

HYPERVELOCITY IMPACT ON STRUCTURAL MATERIAL USING EXPLODING CONDUCTOR CIRCUIT - MEASUREMENT OF MASS, VELOCITY, AND CRATERING OF PARTICLES
ML-TDR-64-161 N64-29427 21-33

BEHAVIOR OF MATERIALS SUBJECTED TO HYPERVELOCITY IMPACT
SID-64-656 N64-29646 21-33

EFFECT OF SPRAY PARTICLES FROM PENETRATION OF THIN TARGETS BY HYPERVELOCITY PARTICLES
APL-TDR-64-60 N64-29943 21-33

ATTENUATION OF STRONG PLANE SHOCK PRODUCED IN SOLIDS BY HYPERVELOCITY IMPACT
DIT-125-5 N64-30203 21-33

APPLIED MECHANICS - HYPERVELOCITY IMPACT AND THERMAL RADIATION IN TURBULENT BOUNDARY LAYER
FTD-MT-63-262 N64-30361 22-11

COLLISION OF TWO PLATES AT HIGH SPEED - HYPERVELOCITY IMPACT N64-30362 22-11

HYPERVELOCITY IMPACT OF ALUMINUM PROJECTILES ON VARIOUS METAL TARGETS
ATL-TDR-64-51 N64-30707 22-33

PENETRATION DEPTH OF METAL PARTICLES IN HYPERVELOCITY IMPACT
ATL-TR-64-64 N64-31120 22-33

HYPERVELOCITY PROJECTILE
PENETRATION, PERFORATION, & SPALLING OF THIN TARGETS BY HYPERVELOCITY PROJECTILES
DRL-TR63-208 N64-13304 04-23

HYPERVELOCITY PROJECTORS FOR ACCELERATION OF PROJECTILES FOR IMPACT STUDIES N64-13442 05-23

PROTECTIVE ABILITY OF THIN SHIELD AGAINST HYPERVELOCITY PROJECTILES N64-13547 05-33

THIN PLATE PERFORATION STUDIES WITH HYPERVELOCITY PROJECTILES N64-13549 05-23

PENETRATION OF HYPERVELOCITY PROJECTILES INTO COMPOSITE LAMINATES N64-13550 05-33

STREAK-FRAMING PHOTOGRAPHY OF HYPERVELOCITY PARTICLES
TO-B-63-89 N64-14829 06-15

REDUCTION OF ELECTROMAGNETIC BACKSCATTER FROM PLASMA SHEATHED CONDUCTING BODY - HYPERVELOCITY PROJECTILE
ESD-TDR-63-589 N64-17364 09-24

ELECTRON DENSITY IN WAKE OF HYPERVELOCITY PELLET
TR-307 N64-21145 14-24

RADIATION MEASUREMENTS IN STAGNATION REGION AND WAKE OF HYPERVELOCITY PROJECTILES - TRANSMISSION AND REFLECTION COEFFICIENTS OF PLASMA SLABS
TR-63-202 N64-21159 14-02

PRECURSOR ELECTRON DENSITY IN FRONT OF SHOCK WAVES OF HYPERSONIC PROJECTILES
TR63-217E N64-22288 15-11

REENTRY PHYSICS RESEARCH - CHEMICAL REACTIONS IN SHOCK HEATED GAS MIXTURES, HYPERVELOCITY WAKE STUDIES, AND LIGHT GAS GUN AND SHOCK TUBE FACILITY DEVELOPMENT
GDA-DBE64-034 N64-27692 19-23

TEMPERATURE MEASUREMENTS OF NEAR WAKE GENERATED BY HYPERVELOCITY PROJECTILE
CARDE-TR-502/64 N64-29423 21-13

HYPERVELOCITY-PROJECTOR FACILITIES DIRECTORY - DEFENSE PROGRAMS
BAT-197-21-4 N64-31111 22-10

NONEQUILIBRIUM RADIATION FROM STAGNATION REGION OF HYPERVELOCITY PROJECTILES IN FREE FLIGHT
TR-64-026 N64-31115 22-11

MULTIPLEX ANTENNA SYSTEM FOR SIMULTANEOUS MEASUREMENTS OF NOSE-ON RADAR CROSS SECTION OF HYPERSONIC PROJECTILE
CTN64-01 N64-31126 22-08

HYPERVELOCITY WIND TUNNEL
HYPERVELOCITY WIND TUNNEL TESTS FOR DYNAMIC STABILITY OF CONE WITH NITROGEN GAS INJECTION INTO FLOW FIELD AT NOSE
REPT.-2-59740/3R-479 N64-15343 07-16

HYPERVELOCITY WIND TUNNEL WITH MAGNETOHYDRODYNAMIC ACCELERATOR
SSD-TDR-64-11 N64-17900 10-24

WATER-COOLED NOZZLE THROAT SECTIONS FOR HIGH PRESSURE & HIGH TEMPERATURE OPERATION IN HYPERVELOCITY WIND TUNNEL
AEDC-TDR-64-51 N64-20036 13-24

VENUS AND MARS ATMOSPHERE ENTRY SIMULATED BY COMBUSTION HEATED HYPERVELOCITY WIND TUNNEL
NASA-CR-56461 N64-25690 17-13

PERFORMANCE CHARACTERISTICS AND TEST PROGRAM FOR HYPERVELOCITY SHOCK TUBES
NASA-CR-56390 N64-33776 24-10

HYPERVENTILATION
HYPERVENTILATION-ALKALOSIS AND BICARBONATE

CONCENTRATION EFFECT ON ACID-BASE EQUILIBRIUM FOR OXYGEN TRANSFER AND CONSUMPTION
N64-15037 07-16

HYPOTHALAMUS
S BRAIN

HYPOTHERMIA
HYPOTHERMIA & ARTIFICIAL HIBERNATION FOR SPACE TRAVEL - ANNOTATED BIBLIOGRAPHY
SID-63-354 N64-11821 03-16

CATECHOLAMINES IN VARIOUS ORGANS OF DOGS UNDER CONDITIONS OF DEEP HYPOTHERMIA
FTD-TT-63-1096/1&2 N64-22142 15-16

HYPOTHERMIA AND CESSATION OF VITAL ACTIVITY IN ORGANS OF NONHIBERNATING MAMMALS
JPRS-25650 N64-27503 19-16

HYPOXIA, HYPOTHERMIA, AND RADIATION RESPONSE OF POCKET MICE
NASA-CR-58526 N64-28838 20-16

HYPOTHESIS
S NULL HYPOTHESIS
S SIMILARITY HYPOTHESIS

HYPOXIA
CF ANOXIA
CF OXYGEN DEFICIENCY
CEREBRAL HYPOXIA IN RESPONSE TO GRAVITY EFFECT WHILE BREATHING OXYGEN
JPRS-21984 N64-10388 01-16

EFFECTS OF MILD HYPOXIA ON HEMOGLOBIN FRACTION CHANGES IN BLOOD OF PILOTS
REPT.-63-2 N64-10433 01-16

BIOELECTRIC CURRENT POTENTIALS AND OXYGEN PRESSURE IN BRAIN TISSUES DURING HYPOXIA OF SPACE FLIGHT
N64-11708 03-16

FLIGHT MEDICINE - VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN, HYPOXIA & METABOLISM, FAT EMBOLISM DURING DECOMPRESSION
OVL-273 N64-12751 04-16

INTERMEDIARY METABOLISM - INFLUENCE OF CHRONIC HYPOXIA ON TRANSAMINASE ACTIVITY IN BLOOD
N64-12754 04-16

SELECTIVE VULNERABILITY OF BRAIN IN HYPOXEMIA
N64-14580 06-16

BRAIN CIRCULATION, OXYGEN SUPPLY, AND ANOXIC SURVIVAL N64-14584 06-16

MEASUREMENT OF POST-MORTEM LACTIC ACID CONCENTRATIONS IN ASSESSING ANTE-MORTEM HYPOXIA
N64-14586 06-16

ION EXCHANGE OF ISOTOPIC SODIUM-24 AND POTASSIUM-32 BETWEEN BLOOD AND CENTRAL NERVOUS SYSTEM DURING HYPOXIA N64-14588 06-16

PASSAGE OF TRYPAN BLUE, PRONTOSIL, AND RADIOACTIVE CHROMIUM IN CITRATE BUFFER SOLUTION THROUGH BLOOD-BRAIN BARRIER IN HYPOXIA AND HYPOCAPNIA
N64-14589 06-16

ELECTRON MICROSCOPIC STUDY OF EARLY CHANGES IN NEURONS DUE TO HYPOXIDOSIS AND ULTRASTRUCTURAL ASPECTS OF NEURONAL NECROSIS IN CEREBRAL CORTEX
N64-14592 06-16

CENTRAL NERVOUS SYSTEM TISSUE AND CELLULAR PATHOLOGY IN HYPOXEMIC STATE N64-14594 06-16

PATTERN AND MODE OF DISTRIBUTION OF LESIONS IN CHRONIC CASES OF HYPOXEMIC AND BILIRUBIN ENCEPHALOPATHY N64-14597 06-16

INFLUENCE OF HYPOXIA ON VARIOUS PATHOLOGICAL CHANGES - HYPOXEMIC LESIONS N64-14598 06-16

HYPOXIC AND ISCHEMIC FACTORS OF BRAIN DAMAGE - SYMMETRIC LESIONS N64-14599 06-16

LAMINAR LESIONS IN CEREBELLAR CORTEX AND HYPOXEMIA EFFECT ON CEREBRAL NUCLEI N64-14601 06-16

BLOOD PRESSURE MEASUREMENTS OF OXYGEN UPTAKE AND RESPIRATORY RATE OF RAT LIVER - HYPOXIA
N64-14602 06-16

CHANGE IN METABOLIC PATTERN OF BRAIN DUE TO OXYGEN TENSION REDUCTION IN BLOOD - HYPOXIA
N64-14603 06-16

GLUCOSE UTILIZATION OF BRAIN CORRELATED WITH INSUFFICIENT OXYGEN CONSUMPTION IN LIVER - HYPOXIA
N64-14604 06-16

LYSOMES, MITOCHONDRIA, AND GOLGI APPARATUS ALTERATION PATTERN STUDIES DURING AUTOLYSIS AND ANOXIC NECROBIOSIS CONDUCTED ON RAT LIVER LESION
N64-14605 06-16

HISTOCHEMICAL DETERMINATION OF OXIDATIVE AND HYDROLYTIC ENZYMES ON RAT BRAIN TISSUE AND AMINO ACID CONSUMPTION IN MONKEYS AFTER HYPOXEMIA
N64-14606 06-16

ENZYMATIC REACTION BETWEEN IRON & PROTOPORPHYRIN UNDER OXYGEN DEFICIENCY CONDITIONS - HYPOXIA
N64-15038 07-16

FUNCTION OF ADRENAL GLAND AND HEMATOPOIETIC SYSTEM UNDER TEMPORARY AND PROLONGED HYPOXIA DURING MOUNTAIN CLIMBING - MEDICAL STUDY
N64-15202 07-16

EFFECTS OF ALCOHOL AND HYPOXIA ON HETEROPHORIAS - REVIEW OF EXPERIMENTAL STUDIES
AD-433129 N64-17924 10-16

TISSUE MECHANISMS - ADAPTATION OF ANIMALS TO REDUCED OXYGEN CONTENT IN ENVIRONMENT
JPRS-16105 N64-21480 14-16

HYPOXIA - TREATMENT METHODS FOR HIGH ALTITUDE PULMONARY EDEMA
AD-433546 N64-21816 15-16

ACTIVITY OF BLOOD SERUM ENZYME DUE TO HYPOXIA, ASPHYXIA, AND BURN SHOCK STIMULI
N64-24562 17-16

ADAPTATION AND ACCLIMATIZATION OF HUMAN ORGANISM TO HYPOXIA
JPRS-25796 N64-28076 20-16

HYPOXIA, HYPOTHERMIA, AND RADIATION RESPONSE OF POCKET MICE
NASA-CR-58526 N64-28838 20-16

ADAPTATION OF ORGANISMS TO CHRONIC OXYGEN STARVATION - ACCLIMATIZATION OF HUMANS TO ALTITUDE AND HYPOXIA CHAMBER CONDITIONS N64-31539 23-16

HYSTERESIS
CF DAMPING
CF ELECTRIC PROPERTY
CF MAGNETIC PROPERTY
DIRECT CURRENT POWER SUPPLY FOR TRACING HYSTERESIS LOOP OF FERROELECTRIC CERAMIC MATERIALS
SC-RR-260-63 N64-11631 03-08

CAVITATION HYSTERESIS IN FLOWING LIQUID
AD-436602 N64-25014 17-11

MICROSTRAIN AND LOW FREQUENCY HYSTERETIC DISLOCATION DAMPING IN COPPER SINGLE CRYSTALS
NASA-CR-58586 N64-28999 20-25

HYSTERESIS-FREE AND THEORETICALLY PREDICTABLE LIQUID PHASE ABSORPTION HYGROMETER
AFCRL-64-493 N64-29981 21-15

ANGULAR VARIATION OF COERCIVITY IN ORTHOFERRITE SINGLE CRYSTALS - HYSTERESIS CURVE RECORDING WITH VIBRATING SAMPLE MAGNETOMETER
TN-6 N64-31814 23-25

I

IBM 650 COMPUTER
ONE-DIMENSIONAL, TIME DEPENDENT, OR STEADY STATE HEAT CONDUCTION CODE FOR IBM 650
IDO-16867 N64-12940 04-20

ALGORITHM FOR DOCUMENTARY ANALYSIS & COMPUTER PROGRAMS FOR IBM 650
N64-14914 06-20

IBM 704 COMPUTER
IBM 704 CODE FOR FOLDING MAXWELLIAN VELOCITY INTO SUMS OF RESONANCE FORMULAS
LAMS-3075 N64-22110 15-20

IBM 704 FORTRAN COMPUTER PROGRAM TO DETERMINE COMBUSTION EFFICIENCY FOR HYDROGEN AND AIR SYSTEM
APL-TDR-64-69 N64-30009 21-26

IBM 704 COMPUTER PROGRAM LASS - LINEAR ANALYSIS OF SYSTEM STABILITY
DP-894 N64-32744 24-20

IBM 709 COMPUTER
CYCLOTRON ORBIT - IBM 709 COMPUTER PROGRAM FOR TRACING SECONDARY BEAMS OUT OF CYLINDRICALLY SYMMETRIC MAGNETIC FIELD
UCRL-11044 N64-11584 03-23

MAGNETIC TAPE UNIT FOR FERRANTI MERCURY COMPUTER TO PERMIT READING AND WRITING TO IBM MAGNETIC TAPE SPECIFICATIONS
CERN-63-32 N64-13050 04-09

CRYSTAL STRUCTURE CALCULATIONS SYSTEM - X-RAY 63 FOR THE IBM 709, 7090, AND 7094 COMPUTER
NASA-CR-56479 N64-22419 15-25

IBM 1401 COMPUTER
IBM 1401 COMPUTER PROGRAMMING OF AIRLINE FLIGHTS - AIR TRAFFIC CONTROL N64-15670 07-10

PRINTER PLOTTING SYSTEM CONSISTING OF IBM 7090 & 1401 COMPUTER SUBROUTINES - USERS MANUAL
NASA-TN-D-2174 N64-18728 11-20

PRINTER PLOTTING SYSTEM CONSISTING OF IBM 7090 & 1401 COMPUTER SUBROUTINES - INSTRUCTION MANUAL
NASA-TN-D-2175 N64-18729 11-20

IBM 1620 COMPUTER
IBM 1620 DIGITAL COMPUTER PROGRAMS FOR DESIGN OF COAXIAL DIPOLE PARAMETRIC AMPLIFIER ANTENNA
AFCRL-64-447 N64-30001 21-08

IBM 1620 COMPUTER PROGRAM FOR SOLUTION OF HEAT CONDUCTION EQUATIONS IN NOSE OF BLUNT HYPERSONIC PROJECTILE
CARDE-TN-1593/64 N64-33821 24-13

IBM 7070 COMPUTER
MODIFICATION OF IBM 7070 SERIES COMPILER SYSTEM - FORTRAN PROGRAM FOR ADDSTORAGE MODE
IS-721 N64-10221 01-20

MACROPROGRAMMING TO GENERATE AUTOCODER INSTRUCTIONS FOR FREE FORMAT SCAN OF CORE AREA - IBM 7070 COMPUTER
IS-765 N64-14418 06-20

INSTRUCTION MANUAL FOR PROGRAMMER ORIENTED GENERALIZED OPERATOR /POGO/ DATA HANDLING SYSTEM FOR IBM 7070 COMPUTER
IS-893 N64-30757 22-32

IBM 7074 COMPUTER
SOLUTION OF ALGEBRAIC EIGENPROBLEM FOR IBM 7074 COMPUTER
IS-748 N64-10222 01-20

FORTRAN PROGRAM FOR IBM 7074 COMPUTER PROCESSING OF CRYTALLOGRAPHIC DATA
IS-876 N64-33249 24-20

IBM 7090 COMPUTER
SOLUTION TO N-BODY SPACE MECHANICS PROBLEMS VIA NUMERICAL INTEGRATION - IBM 7090 - FORTRAN PROGRAM
NASA-TN-D-1730 N64-10174 01-20

HIGH ENERGY ELECTRON-PHOTON CASCADE SHOWER CALCULATIONS BY IBM 7090 - MONTE CARLO METHOD
N64-12532 04-23

IBM 7090 CODE FOR COMPUTATION OF ROOTS OF INHOUR EQUATION
IDO-16904 N64-13135 04-23

ONE-DIMENSIONAL CODING SYSTEM FOR IBM 7090 ANALYSIS OF REACTOR FUEL DEPLETION
WCAP-6058 N64-14732 06-23

PROPELLER BLADE VIBRATION AND STRESS ANALYSIS - IBM 7090 PROGRAM
TECH. REPT.-283 N64-15421 07-03

IBM 7090 COMPUTER PROGRAM FOR OPTIMAL SHIMMING AND TRIMMING OF MAGNETS TO OBTAIN SPECIFIED MAGNETIC FIELDS
CERN-64-3 N64-15610 07-23

COMPUTER PROGRAMMING FOR HARD POINT DEFENSE AND OTHER FLYING SPOT SCANNING DEVICES USING 7090 COMPUTERS
CERN-63-34 N64-15615 07-20

IBM 7090 FORTRAN PROGRAM TO DETERMINE TRANSIENT AERODYNAMIC HEATING AND ABLATION OF VEHICLES IN ARBITRARY FLIGHT TRAJECTORIES
SSD-TDR-63-159 N64-15960 07-13

MONTE CARLO ANALYSIS ON IBM 7090 AND 7094 COMPUTER USING AUTOMATED STATISTICAL ANALYSIS PROGRAM
NASA-CR-55835 N64-16735 08-20

MACRO OUTPUT-INPUT PROGRAMMING COMPONENT FOR IBM 7090 COMPUTER /MOIST/
NASA-CR-53080 N64-16753 08-20

MAGNETOHYDRODYNAMIC WAVE PROPAGATION AND BOUNDARY VALUE PROBLEMS IN LOWER IONOSPHERE
ARA-T-9197-12 N64-16837 08-12

LIFTING-SURFACE PROPELLER DESIGN METHOD FOR IBM 7090 COMPUTER
NAVWEPS-8442 N64-16964 09-03

SOPHIST-5 - IBM 7090 AND 7094 FORTRAN II COMPUTER CODE WHICH CALCULATES ENERGY TRANSFER MATRICES FOR NEUTRON ELASTIC SCATTERING
UCRL-7624 N64-17074 09-20

TURBO - IBM COMPUTER CODE FOR SOLUTION TO NEUTRON DIFFUSION EQUATIONS
WCAP-6059 N64-17264 09-20

IBM 7090 COMPUTER PROGRAM FOR STRESSES AND DEFORMATIONS OF CROSS SECTIONS OF BEAMS DUE TO MECHANICAL OR THERMAL LOADING
ASRMDS-TM-62-35 N64-17366 09-20

IBM 7090 COMPUTER PROGRAM FOR MULTICAVITY KLYSTRON STUDIES
AD-420687 N64-17664 09-20

IBM 7090 FORTRAN SUBROUTINE FOR MAKING LINEAR, LOGARITHMIC, & SEMILOGARITHMIC GRAPHS
ORNL-3581 N64-17717 09-20

LOUISE III - FORTRAN IBM 7090 PROGRAM FOR CALCULATING CRITICALITY CONSTANT & CRITICAL FLUX OF MULTIREGION REACTOR - NEUTRON DIFFUSION CODE
EUR-532.E N64-17812 09-20

7090 COMPUTER ANALYSIS OF WIND VELOCITY - SATURN VEHICLE FLIGHT SIMULATION
NASA-TM-X-51542 N64-18101 10-20

FORTRAN III /IBM 7090 COMPUTER/ PROGRAM FOR THREE-SUBLATTICE MAGNETIZATION CALCULATIONS
NOLTR-63-32 N64-18589 11-20

PRINTER PLOTTING SYSTEM CONSISTING OF IBM 7090 & 1401 COMPUTER SUBROUTINES - USERS MANUAL
NASA-TN-D-2174 N64-18728 11-20

PRINTER PLOTTING SYSTEM CONSISTING OF IBM 7090 & 1401 COMPUTER SUBROUTINES - INSTRUCTION MANUAL
NASA-TN-D-2175 N64-18729 11-20

IBM 7090 COMPUTER PROGRAM FOR DETERMINING PLASMA

DENSITY FROM EXPERIMENTAL HYDROGEN SPECTRAL LINE SHAPES
ATN-64/9233/-8 N64-18924 11-24

IBM 7090 COMPUTER PROGRAM TO CONTROL PRESCRIBED CHANGES IN MANNED ORBITAL SPACECRAFT
NASA-TN-D-2237 N64-18957 11-29

IBM 7090 COMPUTER PROGRAM FOR BEAM OPTICS PROBLEMS ON SYNCHROCYCLOTRON
CERN-64-15 N64-19493 12-20

IBM 7090 COMPUTER PROGRAM FOR THERMAL UTILIZATION FACTOR IN REACTOR LATTICE CELL
EUR-1606.E N64-20880 14-23

HYTHEST - IBM 7090 COMPUTER PROGRAM USING MONTE CARLO METHOD FOR EVALUATING CORRECTION FACTORS FOR NUCLEAR REACTOR CORES
EURAEC-987 N64-21193 14-23

IBM 7090 COMPUTER PROGRAM IN FORTRAN FOR PERFORMING POWER SPECTRAL DENSITY ANALYSIS
SRI-MR-8 N64-21336 14-20

EVALUATING LOGICAL DESIGN OF PROBLEM-ORIENTED SYMBOL PROCESSOR - ADAM AND IBM 7090 PROGRAM ASSEMBLIES
AFCRL-64-198 N64-21770 15-20

STORAGE AND RETRIEVAL OF INFRARED SPECTRAL DATA USING IBM 7090 COMPUTER
RTD-TDR-63-4265 N64-21779 15-01

CRYSTAL STRUCTURE CALCULATIONS SYSTEM - X-RAY 63 FOR THE IBM 709, 7090, AND 7094 COMPUTER
NASA-CR-56479 N64-22419 15-25

X-RAY CRYSTALLOGRAPHY - PROGRAM FOR IBM 709, 7090, & 7094 COMPUTERS
NASA-CR-56472 N64-22426 15-25

IBM 7090 COMPUTER CALCULATION OF PROPELLANT THERMODYNAMIC PROPERTIES
NOLTR-63-202 N64-22706 15-20

IBM 7090 COMPUTER CODE USING MONTE CARLO METHOD /FANTASIA II AND TRIPROD II/ FOR NEUTRON TRANSMISSION THROUGH LAMINATED SLABS
ML-TDR-64-52 N64-24387 17-23

IBM 7090 COMPUTER PROGRAM FOR ANALYSIS OF SOLAR REFLECTORS
EDR-3666 N64-26832 18-06

IBM 7090 AND 7094 PROGRAMS FOR COST ESTIMATES AND OPERATION OF COMMUNICATIONS SATELLITE SYSTEMS
NASA-CR-55888 N64-27262 19-10

SOLUTION OF LARGE SYSTEMS OF ALGEBRAIC EQUATIONS USING IBM 7090 COMPUTER
TR-33 N64-29020 21-20

CALCULATION OF ELECTRON-PRODUCED BREMSSTRAHLUNG RADIATION DOSE THROUGH SEVERAL SLABS OF SHIELD MATERIAL USING IBM 7090 FORTRAN COMPUTER PROGRAM
NASA-CR-58275 N64-29366 21-23

IBM 7090 DIGITAL COMPUTER SIMULATION OF RADIATION PATTERNS OF ULTRAHIGH FREQUENCY ANTENNA ARRAYS ABOVE FINITELY-CONDUCTING PLANE SURFACES
GE/EE/63-16 N64-32100 23-08

IBM 7094 COMPUTER
MONTE CARLO ANALYSIS ON IBM 7090 AND 7094 COMPUTER USING AUTOMATED STATISTICAL ANALYSIS PROGRAM
NASA-CR-55835 N64-16735 08-20

ACCURACY OF IBM 7094 FORTRAN IV SUBROUTINES
N64-18231 10-20

OPTIMUM THRUST PROGRAMMING TO DETERMINE COMPOSITION OF MULTICOMPONENT PROPELLANTS - IBM 7090 AND 7094 COMPUTER PROGRAM
U-2502 N64-19414 12-20

CRYSTAL STRUCTURE CALCULATIONS SYSTEM - X-RAY 63 FOR THE IBM 709, 7090, AND 7094 COMPUTER
NASA-CR-56479 N64-22419 15-25

EDITING TRACKING DATA FOR IBM 7094 COMPUTER PROGRAM FOR ORBIT DETERMINATION
NASA-CR-58488 N64-29203 21-08

ICE
CF WATER
PHASE CHANGES IN ICE SOLUTIONS - INVESTIGATION USING ELECTRICAL RESISTIVITY MEASUREMENTS
EER-FW-173 N64-11754 03-23

HYDRONIUM ION MOBILITY IN ICE CRYSTALS
NIJS-R-414 N64-12134 03-23

BACKSCATTERING CROSS SECTION MIXTURES OF ICE & WATER - RADAR ECHO
AFCRL-63-760 N64-12294 03-23

GEOPHYSICAL INVESTIGATIONS OF ARCTIC ICE PACK
AFCRL-63-693 N64-12426 04-21

GEOPHYSICAL INVESTIGATION OF ARCTIC ICE PACK - SOUND PROPAGATION N64-12427 04-21

ICE AGES - POSTGLACIAL UPLIFT, EXTENT OF GLACIATION IN NORTHERN HEMISPHERE, AND SEA LEVEL CHANGES N64-12428 04-21

METEOROLOGY AND OCEANOGRAPHY - SOLAR ACTIVITY EFFECTS ON TROPOSPHERIC REACTION - ICE STUDIES
JPRS-23074 N64-14532 06-21

GEOLOGICAL ACTIVITY OF ICE SHEET ON BEDROCK SURFACE OF ANTARCTICA N64-16455 08-12

ELEVATIONS ON ICE SHEET OF SOUTHERN GREENLAND
AD-430062 N64-16507 08-12

BIBLIOGRAPHY ON SNOW, ICE, AND PERMAFROST
CRREL-12, VOL. 17 N64-17633 09-21

TIROS I PICTURES OF MOUNTAIN PHENOMENA, ICE, SUN GLITTER, GULF STREAM, AND SOUTHERN HEMISPHERE CLOUDS N64-17918 10-21

HEAT TRANSFER IN ICE DURING MELTING
JPRS-24019 N64-17971 10-13

THEORY OF STRENGTH OF CIRCULAR PLATES ON ELASTIC SEALED FOUNDATIONS - OBSERVATIONS OF NEWLY FROZEN ICE SHEETS ON POOLS OF WATER
CRREL-118 N64-18364 10-33

ELECTRIC PROPERTIES OF SEA-WATER ICE
AFCRL-64-52 N64-18790 11-19

ATMOSPHERIC CONDITION EFFECT ON PRECIPITATION FROM CLOUD SEEDING WITH HYGROSCOPIC AND ICE NUCLEI N64-20648 13-21

HYDRONIUM ION ENERGY BANDS IN ICE CRYSTALS
NIJS-R-424 N64-21207 14-25

AERIAL PHOTOGRAPHY OF ANTARCTIC ICE IN LUTZOW-HOLM BAY VICINITY N64-23057 16-12

INTERNAL FRICTION OF ICE AND FROZEN HEAVY WATER N64-23898 16-13

CALCULATION OF LIFETIME OF ICE IN NUCLEI OF COMETS IN SOLAR RADIATION FIELD N64-25065 17-05

ELECTRICAL PHENOMENA AT ICE/WATER INTERFACE
TR-1 N64-25778 17-09

DYNAMIC LOAD ON PROPELLER BLADES OF SHIP IN ICE CONDITIONS
JPRS-26033 N64-27616 19-33

HISTORY OF LUNAR ATMOSPHERE AND POSSIBILITY OF ICE AND ORGANIC COMPOUNDS EXISTING ON MOON
NASA-TT-F-232 N64-29497 21-05

BIBLIOGRAPHY ON SNOW, ICE, AND PERMAFROST
CRREL-12 N64-29866 21-12

VERTICAL VARIATION OF STRENGTH OF SEA & SALT ICE
RR-113 N64-29867 21-12

PALEOCLIMATOLOGY OF ICE AGES N64-30511 22-12

ELECTRON PARAMAGETIC RESONANCE SPECTRUM OF IRRADIATED SINGLE CRYSTALS OF ICE AT CRYOGENIC TEMPERATURES N64-30784 22-07

EQUATIONS FOR CALCULATING DENSITY OF ICE AS FUNCTION OF TEMPERATURE AND STRESS
SR-64 N64-32519 23-25

PROFILE AND HEAT BALANCE AT BOTTOM SURFACE OF ICE SHEET FRINGED BY MOUNTAIN RANGE
CRREL-RES. REPT.-134 N64-32520 23-12

ANNOTATED BIBLIOGRAPHY ON SNOW, ICE, & PERMAFROST
CRREL-12, VOL. XVIII N64-32521 23-12

ORIGIN OF AIRBORNE DUST PARTICLES - ICE NUCLEI
RPR-149 N64-33015 24-21

ICE FORMATION
PREDICTION OF AERODYNAMIC PENALTIES CAUSED BY ICE FORMATIONS ON VARIOUS AIRFOILS
NASA-TN-D-2166 N64-15162 07-03

LAKE ICE FORMATION IN TEMPERATE CLIMATE
CRREL-107 N64-18848 11-21

ADHESION PROBLEMS - DYNAMICS OF CATALYTIC CHROMATOGRAM - CRYSTAL STRUCTURE OF COMPLEX IONS OF TRANSITION METALS - MECHANISM OF ICE FORMING NUCLEI
JPRS-26193 N64-28434 20-03

EFFECT OF LAKE DEPTH AND SIZE ON HEAT BALANCE AND ICE FORMATION
TR-13 N64-30810 22-21

GROWTH AND SHRINKAGE RATES OF NONEQUILIBRIUM ICE FORMATIONS
CRREL RES. REPT.-145 N64-33108 24-12

ICING
ESTIMATED FREQUENCIES OF POTENTIAL AIRCRAFT ICING CONDITIONS AT SPECIFIED ALTITUDES
AD-448047 N64-32029 23-21

FORECASTING GUIDE ON AIRCRAFT ICING
AWSM-105-39 N64-33105 24-21

IDEAL GAS
SUPERSONIC FLOW OF IDEAL GAS PAST PLANE TRIANGULAR WING WITH POSITIVE ANGLE OF ATTACK N64-12485 04-03

COMPUTER PROGRAM FOR SOLUTION OF NORMAL SHOCK WAVES IN IDEAL GAS MIXTURES
LA-2980 N64-15179 07-20

IDEAL-GAS TABLES FOR OBLIQUE-SHOCK FLOW PARAMETERS IN AIR AT MACH NUMBERS FROM 1.05 TO 12.0
NASA-TN-D-2221 N64-17160 09-11

REAL GAS FLOW PARAMETERS USING DATA ON IDEAL GAS FLOW AROUND INFINITE PLATE N64-23073 16-11

SUPERSONIC FLOW OF NONVISCOUS PERFECT GAS PAST BLUNT BODIES N64-23599 16-02

NUMERICAL CALCULATION OF SUPERSONIC FLOW OF PERFECT GAS OVER BODY OF REVOLUTION AT SMALL ANGLE OF REVOLUTION
NASA-TN-D-2390 N64-25809 17-02

SIMILARITY RULES OF FLOW OF PERFECTLY CONDUCTING GAS WITH ALIGNED MAGNETIC FIELD
ARL-64-113 N64-27468 19-24

TABLES FOR ISENTROPIC EXPANSION OF IDEAL GASES WITH CONSTANT SPECIFIC HEAT RATIO OF 1.400
RPE-TN-304 N64-27682 19-11

NUMERICAL SOLUTION AND PROGRAMMING FOR PROBLEMS INVOLVING INTERSECTION OF SHOCKS AND SHOCK-BOUNDARY LAYER INTERACTIONS FOR REAL AND IDEAL GAS
NASA-CR-56414 N64-27905 20-11

MOTIONS OF IDEAL, PERFECT, AND HEAT CONDUCTIVE GASES N64-28489 20-11

STRONG PLANE SHOCK DECAY IN IDEAL GAS
NASA-CR-107 N64-29204 21-11

ORDINARY DIFFERENTIAL EQUATIONS FOR AXISYMMETRIC FLOWS OVER CONES OF LIGHTHILL DISSOCIATING GAS UNDER THERMODYNAMIC EQUILIBRIUM
DI-82-0350 N64-30044 21-11

OBLIQUE SHOCK-WAVE ANGLE CHARTS FOR PERFECT GAS REGIME
NASA-CR-59341 N64-33774 24-11

IDENTIFICATION
BIBLIOGRAPHY ON SATELLITE IDENTIFICATION
LB-BIB-63-5 N64-10418 01-32

FLASH AND REAL-TIME IDENTIFICATION OF HIGH PRIORITY TARGETS - PHOTO INTERPRETATION N64-10535 01-14

INFORMATION SYSTEM FOR IDENTIFICATION & RAID RECOGNITION IN AEROSPACE DEFENSES
ESD-TDR-64-189, VOL. 1 N64-21091 14-01

RESPONSE AND FEEDBACK TECHNIQUES FOR AUTOMATED TRAINING OF VISUAL IDENTIFICATION SKILLS
NAVTRADEVCEN-789-3 N64-32037 23-14

IE-A
LAUNCH OF IONOSPHERE EXPLORER-A /IE-A/ SATELLITE STRUCTURE, ORBIT, SCOUT LAUNCH VEHICLE, TRACKING AND DATA AQUISITION, AND SCIENTIFIC EXPERIMENTS N64-29601 21-32

IGNITER
IGNITERS AND IGNITION PROCESS OF COMPOSITE SOLID PROPELLANTS IN SMALL ROCKET MOTOR
AERONAUTICAL ENG. REPT.-662 N64-13260 04-26

SOLID PROPELLANT IGNITION CHARACTERISTICS IN ROCKET ENGINES
NOLTR-64-107 N64-31048 22-26

IGNITION
SA SOLID PROPELLANT IGNITION
RELATION OF CHEMICAL COMPOSITION TO IGNITION CHARACTERISTICS OF HYPERGOLIC LIQUID BIPROPELLANTS N64-10005 01-26

ANALYSES OF EXPLOSIONS, DETONATIONS, FLAMMABILITY LIMITS, GAS IGNITION, HETEROGENEOUS BURNING, AND EXPLOSION PREVENTION - HIGH ENERGY REACTIONS
AGARDOGRAPH-31 N64-12125 03-26

IGNITION PROPERTIES OF GASEOUS FUEL-AIR MIXTURES WITH APPLICATION TO EXPLOSION-PROOF TESTING
ASD-TDR-62-1081 N64-12227 03-26

FLAMMABILITY OF METHANE MIXTURES WITH OXYGEN & INERT DILUENTS - DEPENDENCE OF IGNITION DELAY ON TEMPERATURE, PRESSURE, & CONCENTRATION
FTD-MT-63-101/1&2&3&4 N64-14384 06-26

FLAME REACTOR PRODUCTION OF DEUTERIUM FLUORIDE BY HOT NICKEL WIRE IGNITION OF PURE GASES
K-1585 N64-14713 06-07

SPARK FORMATION IN SPARK CHAMBER - PULSED FIELD ACROSS HIGH PRESSURE GAS N64-15511 07-23

AUTOIGNITION OF DOWTHERM IN AIR AT ELEVATED PRESSURES
NASA-CR-55932 N64-17683 09-26

FACTORS IN IGNITION AND COMBUSTION OF SECONDARY EXPLOSIVES
FTD-TT-63-325/1 N64-19215 11-26

IGNITION CHARACTERISTICS OF FUELS AND LUBRICANTS
APL-TDR-64-25 N64-21317 14-26

CATALYTIC IGNITION OF HYDROGEN-OXYGEN PROPELLANT COMBINATION
RR-63-9 N64-21901 15-26

IGNITION DELAYS OF HYPERGOLIC LIQUID ROCKET PROPELLANTS
WSS/CI PAPER-64-12 N64-24376 17-26

SELF-IGNITION FLAME AND DETONATION GASES

NASA-TT-F-125 N64-25875 18-26

ELECTRIC IGNITION ELEMENT TESTING FOR USE IN PROPELLANT ACTUATED ESCAPE SYSTEMS
FA-R-1725 N64-26202 18-06

PERFORMANCE CHARACTERISTICS OF STRATIFIED CHARGE TWO STROKE SPARK IGNITION ENGINE
TR-S-1 N64-26660 18-27

CHAMBER ROTATION SPEED AND IGNITION POINT LOCATION EFFECTS ON COMBUSTION DURATION AND FLAME DURATION IN CYLINDRICAL FORCE FIELD
TR-2 N64-26856 18-26

ARC IGNITION TECHNIQUES FOR SOLID PROPELLANTS
RPL-TDR-64-116 N64-28236 20-26

ROCKET ENGINE IGNITION TIME DELAY
N64-28592 20-26

IGNITION AND COMBUSTION PROPERTIES OF ACTIVATED CARBON CONTAINING ADSORBED HYDROCARBONS FOR SUBMARINE AIR FILTERS
NRL-6090 N64-29955 21-26

CATALYTIC IGNITION OF OXYGEN/HYDROGEN SYSTEMS
NASA-CR-54086 N64-30086 21-26

HEAT TRANSFER CHARACTERISTICS OF HOT GAS IGNITION
RM-1063/362 N64-30202 21-10

SPONTANEOUS IGNITION OF HYDRAULIC FLUIDS DURING COMPRESSION PROCESSES
AD-602888 N64-30554 22-26

INTERNAL COMBUSTION ENGINES - GAS FLOW AND FLAME STABILITY AFTER SPARK IGNITION
FTD-MT-64-03 N64-31755 23-27

FLAME DEVELOPMENT AFTER IGNITION BY STABILIZED AND NONSTABILIZED ELECTRIC SPARK - RECIPROCATING ENGINE ECONOMY N64-31757 23-27

DIFFUSION CONTROLLED IGNITION OF ORGANIC SOLIDS BY INTENSE RADIANT ENERGY
WSS/CI PAPER-64-7 N64-32518 23-26

CHEMICAL PROPERTIES & SOLUBILITY OF OZONE FLUORIDE IN LIQUID OXYGEN AND HYPERGOLIC IGNITION BETWEEN HYDROGEN AND LIQUID OXYGEN
NASA-CR-54072 N64-32632 23-26

IGNITION AND ABLATION RESPONSES OF CELLULOSIC MATERIALS TO HIGH RADIANT HEAT LOADS
WSS/CI PAPER-64-8 N64-32930 24-26

COMBUSTION TEST TO DEVELOP SPARK IGNITION SYSTEM OF STOICHIOMETRIC OXYGEN-HYDROGEN AND HELIUM MIXTURE FOR HYPERSONIC SHOCK TUNNEL
REPT.-64-12 N64-33071 24-26

IGNITION SYSTEM
ELECTROSTATIC IGNITION IN CARBURETOR-TYPE ENGINES
FTD-TT-63-822 N64-13920 05-06

IGNITION TEMPERATURE
MECHANISM AND LIMITS OF SPONTANEOUS CHAIN IGNITION OF HYDROGEN-OXYGEN MIXTURES IN SHOCK WAVES
JPRS-25103 N64-22737 16-23

ILLUMINANCE
VISUAL RECOVERY FROM EXPOSURES TO VERY HIGH ILLUMINANCE FLASHES
TDR-2 N64-33459 24-14

ILLUMINATION
SA FLARE
CF LIGHT TRANSMISSION
OPTIMIZATION OF ILLUMINATION AND TEMPERATURE EFFECT ON CHLOROPHYLL CONCENTRATION OF DUNALIELLA SALINA CELLS N64-23657 16-16

EFFECT OF WALL ILLUMINATION ON PERFORMANCE OF ANECHOIC CHAMBER IN MICROWAVE REGION IN MEASURING RADAR REFLECTION PROPERTIES OF MATERIALS & OBJECTS
N64-24288 17-08

TAIL CONE AND CANDLE CASE COMPONENTS OF
ILLUMINATING CARTRIDGE FOR PARACHUTE-SUSPENDED CANDLE
SR-251-1-63 N64-26670 18-04

PHYSICAL MECHANISMS OF GASES - ELECTRICAL BREAKDOWN UNDER INTENSE OPTICAL ILLUMINATION FROM LASER
C-920088-2 N64-27562 19-24

ADSORPTIVITY CHANGE OF SEMICONDUCTOR SURFACE INFLUENCED BY ILLUMINATION
FTD-MT-64-205 N64-32611 23-25

ENHANCEMENT DEPENDENCE ON SHORT WAVE AND FAR RED ILLUMINATIONS - PHOTOSYNTHESIS RATES
N64-33261 24-16

ENHANCEMENT OF PHOTOSYNTHESIS OF CHLORELLA PYRENOIDOSA AS FUNCTION OF FAR-RED AND SHORT WAVE ILLUMINATIONS N64-33456 24-16

VIDICON PERFORMANCE CHARACTERISTICS FOR PICTURE TRANSMISSION AT VARIOUS ILLUMINATION LEVELS
N64-33800 24-15

ILLUSION
CF IMAGERY
CONTRIBUTING FACTORS IN PERCEPTION OF OCULOGRAVIC ILLUSION N64-22434 15-14

HUMAN EYE REFLEX RESPONSE TO VERTICAL ACCELERATION AND RELATIONSHIP TO LABYRINTH - ELEVATOR ILLUSION
FPRC-1213 N64-25846 18-16

VISUAL ILLUSIONS DUE TO ACCELERATION AND EYE MOTION
FPRC-1207 N64-25847 18-16

FREQUENCY AND DIRECTION OF MOVEMENT IN AUTOKINETIC ILLUSION
TR-10 N64-26278 18-14

ELEVATOR ILLUSION - APPARENT MOTION OF VISUAL TARGET DURING VERTICAL ACCELERATION
NASA-CR-59180 N64-33159 24-14

ILMENITE
CARBON REDUCTION OF RUTILE AND ILMENITE IN NITROGEN AND AMMONIA ATMOSPHERES - CONVERSION TO TITANIUM NITRIDE
BM-RI-6447 N64-22120 15-07

ILYUSHIN IL-62 AIRCRAFT
LIFE SUPPORT SYSTEMS, IL-62 TURBOJET AIRCRAFT, MARS-I SPACECRAFT, AND GYRATING ENGINES
JPRS-18565 N64-10773 02-01

AERODYNAMIC AND ECONOMIC CHARACTERISTICS OF IL-62 TURBOJET PASSENGER AIRCRAFT N64-10775 02-04

IMAGE
SA RADAR REFLECTION
IMAGE QUALITY CATEGORIZATION OF AERIAL PHOTOGRAPHY
N64-10530 01-14

RELATIONSHIPS BETWEEN PSYCHOPHYSICAL JUDGMENTS OF IMAGE QUALITY AND PHYSICAL IMAGE VARIABLES
N64-10531 01-14

IMAGE QUALITY AND MILITARY TARGET RECOGNITION PERFORMANCE N64-10532 01-14

APPLICATION OF COMPACTNESS HYPOTHESIS TO VISUAL IMAGE RECOGNITION BY GENERAL-PURPOSE DIGITAL COMPUTER
JPRS-18126 N64-10742 02-14

COMPUTER PROGRAMS, IMAGE SCANNING LEARNING SYSTEMS AND PRINCIPLES OF THEIR DESIGN
JPRS-18181 N64-11029 02-01

FAST DERIVATION OF IMAGE POINT BEYOND LIMITS OF GIVEN PHASE PLANE REGION - CYBERNETICS
N64-12465 04-20

IMAGE CONSTRUCTION FOR CONCAVE GRATINGS AT GRAZING INCIDENCE BY RAY TRACING
NASA-RP-91 N64-12948 04-23

DESCREENING OF IMAGES AS MEANS OF OPTIMAL UTILIZATION OF INFORMATION N64-15463 07-23

APPLICATION OF DOUBLE CLAMSHELL ARC IMAGING SYSTEM TO THERMAL EXPANSION & OTHER PHYSICAL PROPERTY MEASUREMENTS OF ALUMINA AND ZIRCON
AFCRL-63-591 N64-15571 07-15

EXPOSURE OF POLYMERIC MATERIALS TO HEAT FLUXES USING ARC IMAGING FURNACE
NASA-CR-53256 N64-17494 09-19

PREDICTING DIFFICULTY ENCOUNTERED IN LOCATING TARGETS USING AERIAL PHOTOGRAPHY
AMRL-TDR-64-19 N64-22566 15-14

GAMMA RAY DETECTION EFFICIENCY AND IMAGE RESOLUTION IN SODIUM IODIDE N64-22859 16-23

IMAGE INCLINATION AND ROTATION IN OPTICAL INSTRUMENTS N64-23545 16-15

IMAGE-PLANE REFLECTIVITY RANGE N64-24729 17-08

AIRBORNE IMAGE SENSORS FOR INTELLIGENCE
RADC-TDR-64-181 N64-26168 18-08

CYBERNETIC APPROACH TO PROBLEM OF SENSUAL IMAGE AND PERCEPTION
JPRS-25761 N64-26765 18-14

PHOTOSENSITIVE IMAGE DETECTOR TO RESPOND TO MODULATION AT MICROWAVE FREQUENCY
RADC-TDR-64-221 N64-27457 19-15

MATHEMATICAL MODEL FOR CALCULATING PERFORMANCE OF RECONNAISSANCE SYSTEMS DEVELOPED FROM IMAGE EVALUATION STUDY
ITEK-9048-9 N64-27786 19-15

IMAGERY PRODUCED BY LONG FOCAL LENGTH OPTICAL SYSTEMS UNDER DIFFERENT ATMOSPHERIC CONDITIONS
WRE-TN-ISD-39 N64-28027 20-15

APPLICATION OF LIGHT AND IMAGE INTENSIFICATION
MTER-7 N64-28196 20-25

EFFECT OF DIRECTION AND SPEED OF IMAGE MOTION ON TARGET RECOGNITION BY OBSERVER OF SIDE-LOOKING RADAR
AMRL-TDR-64-45 N64-28604 20-14

COMPUTER PROGRAMS FOR ANALYSIS OF CONNECTIVITIES AND SHAPES OF REGIONS IN DIGITIZED IMAGES
NASA-CR-58608 N64-28836 20-15

FABRICATION TECHNIQUES AND EQUIPMENT FOR FIBER OPTICS IMAGE DEVICE
RADC-TDR-64-217 N64-31945 23-15

SPECTRAL SLIT WIDTH OF SMALL PRISM MONOCHROMATOR FOR IMAGE INTENSITY DISTRIBUTIONS
GDA-DBE-64-054 N64-32679 23-15

IMAGE CONVERTER
SCANNABLE PHOTOSENSITIVE IMAGE DETECTOR FOR COHERENT LIGHT
RADC-TDR N64-14352 06-09

ORBITING ASTRONOMICAL OBSERVATORY IMAGE CONVERTERS
NASA-CR-55425 N64-14840 06-15

HIGH SPEED IMAGE CONVERTER CAMERA ELUCIDATION OF FORMATION OF DETONATION WAVES IN STOICHIOMETRIC MIXTURE OF HYDROGEN AND OXYGEN
NASA-TN-D-2242 N64-18732 11-26

PERFORMANCE OF THIN FILM IMAGE CONVERTERS
AD-435788 N64-19122 11-25

OPTICAL IMAGE CONVERTERS - BIBLIOGRAPHY
SB-64-5 N64-20498 13-15

IMAGE CONVERTER TUBE USING ULTRAHIGH FREQUENCY SOUND - ACOUSTIC EQUIVALENT OF TELEVISION CAMERA
AERE-R-4356 N64-27047 19-15

OPTICAL PERFORMANCE OF TWIN ASPHERIC MIRROR SYSTEM FOR THERMAL IMAGE CONVERTER
WRE-TN-CPD-78 N64-27676 19-23

H-ALPHA LINE EMISSION IN NIGHT AIRGLOW AND HELIUM EMISSION OF NIGHT AIRGLOW WITH FABRY-PEROT INTERFEROMETER AND ELECTRONIC IMAGE CONVERTER
N64-32709 24-12

ULTRAVIOLET SPECTROSCOPY AND PHOTOGRAPHY USING SPECTRALLY SELECTIVE IMAGE CONVERTER
NASA-TM-X-55072 N64-32857 24-15

IMAGE INTENSIFIER
SA LASER
EVALUATION OF IMAGE INTENSIFIERS
N64-15461 07-23

SOLID STATE SANDWICH-TYPE IMAGE INTENSIFIER CONSISTING OF PHOTOCONDUCTIVE LAYER AND PHOTOGRAPHIC EMULSION IN ELECTRIC FIELD
AFCRL-64-133 N64-18598 11-25

FLIGHT PERFORMANCE OF DELFT IMAGE AMPLIFIER CAMERA FOR NIGHT AERIAL RECONNAISSANCE PHOTOGRAPHY
RTD-TDR-63-4079 N64-19656 12-15

PHOTOCONDUCTIVE CADMIUM SULFIDE AND SELENIDE MATERIALS FOR SOLID STATE IMAGE INTENSIFIER PANEL
MTER-1 N64-24898 17-25

COMPUTER PROGRAM FOR CIRCUIT PARAMETERS OF ELECTROLUMINESCENT PHOTOCONDUCTOR - IMAGE INTENSIFIER
MTER-4 N64-24901 17-25

MATHEMATICAL ANALYSIS OF PHOTOCONDUCTOR ELECTROLUMINESCENCE CIRCUIT FOR IMAGE INTENSIFIER
MTER-6 N64-26862 18-09

IMAGE ORTHICON TUBE
IMAGE ORTHICON UTILIZATION FOR STUDYING AURORAL AND NIGHT AIRGLOW ACTIVITY
AFCRL-64-209 N64-17444 09-12

PERFORMANCE EVALUATION OF TRAP PROGRAM ORTHICON TUBE SYSTEM
R63SD1042 N64-22221 15-15

TELEVISION CAMERA TUBE FOR ASTRONOMICAL IMAGE INTEGRATION SYSTEM N64-30064 21-15

IMAGE ORTHICON AND VIDICON TELEVISION CAMERA TUBES
NASA-TT-F-9103 N64-31330 22-15

IMAGERY
SA HALLUCINATION
IMAGE INTERPRETATION CELL TO GENERATE MILITARY INTELLIGENCE DATA IN FORM OF FLASH AND IMMEDIATE PHOTOGRAPH INTERPRETATION REPORTS
SME-AA-101 N64-33294 24-15

IMAGING TECHNIQUE
LIMITS OF IMAGING AT LOW BRIGHTNESS LEVELS
N64-15455 07-23

ULTRAVIOLET IMAGING FROM SATELLITES
N64-15456 07-23

PHOTOCONDUCTOR IMAGING TECHNIQUE WITH THERMOPLASTIC STORAGE
RL-64-6 N64-22273 15-15

OPTICAL PROJECTION IMAGE EVALUATION FOR TERMINAL GUIDANCE SIMULATOR
NOR-64-78 N64-24449 17-15

APPLICATION OF LIGHT AND IMAGE INTENSIFICATION
MTE-5 N64-24897 17-25

CONTRAST MODULATION FOR IMAGE ENHANCEMENT
AFSC-TDR-64-45 N64-25986 18-19

CRITICAL PROBLEM AREAS IN PRESENTATION OF MULTISENSOR INTELLIGENCE IMAGERY
RADC-TDR-64-160 N64-26167 18-08

MATHEMATICAL MODEL OF RECONNAISSANCE SYSTEM, SIMULATED AERIAL PHOTOGRAPHY STUDY, AND THEORY AND CONSTRUCTION OF IMAGE ANALYZER UNIT

ITEK 9048-7 N64-27694 19-15

IMBEDDING
DYNAMIC PROGRAMMING, INVARIANT IMBEDDING, AND QUASI-LINEARIZATION
RM-4038-PR N64-21546 15-20

TWO-POINT NONLINEAR BOUNDARY VALUE PROBLEM SOLVED BY DYNAMIC PROGRAMMING, INVARIANT IMBEDDING, AND QUASI-LINEARIZATION
RM-4069-PR N64-21620 15-20

INVARIANT IMBEDDING APPROACH TO STUDY OF PROCESSES - CONVERSION OF BOUNDARY VALUE PROBLEMS TO INITIAL VALUE PROBLEMS
RM-3806-PR N64-21723 15-09

APPLICATION OF PRINCIPLE OF INVARIANT IMBEDDING TO PROBLEMS IN TRANSPORT THEORY - HAMILTON EQUATION OF MOTION
RM-3538-PR N64-25740 17-23

IMIDE
POLYMER CHEMISTRY - MECHANICAL STRENGTHS OF HEAT RESISTANT POLYIMIDE AND POLYBENZIMIDAZOLE RESINS
SM-44660 N64-18710 11-19

THERMAL DEGRADATION OF PYROMELLITIMIDE POLYMER IN AIR AND VACUUM BY THERMOGRAVIMETRY - RATES AND ACTIVATION ENERGIES
TG-529 N64-32099 23-07

IMMERSION
CF SUBMERSION
EFFECTS OF HAND IMMERSION IN COLD WATER ON DIGITAL BLOOD FLOW
AAL-TDR-63-35 N64-33524 24-16

IMMUNOLOGY
IMMUNOLOGICAL REMOVAL OF IODINE-131 LABELED RABBIT ANTIBODY TO RAT FIBRINOGEN IN NORMAL AND TUMOR-BEARING RATS
UR-634 N64-10190 01-16

LOWERING THE IMMUNOBIOLOGICAL RESISTANCE OF ORGANISMS AS MANIFESTATION OF IRREVERSIBLE COMPONENT OF RADIATION SICKNESS
JPRS-19152 N64-11127 02-16

EFFECTS OF VARIOUS SERA ON MALIGNANT GROWTHS - IMMUNOLOGY & RADIATION SICKNESS
JPRS-20040 N64-11354 02-16

IMMUNOLOGY OF ACUTE RADIATION INJURY
JPRS-18620 N64-11829 03-16

RADIATION EFFECT ON ANTIMICROBIAL IMMUNITY
N64-11830 03-16

NONINFECTIOUS IMMUNOLOGY OF RADIATION SICKNESS
N64-11832 03-16

RADIATION MEDICINE - RADIATION EFFECTS, LIPID METABOLISM, IMMUNOLOGY, AND DIAGNOSIS
ORINS-43 N64-16945 09-16

IMMUNOLOGICAL & PROTECTIVE FUNCTIONS OF ORGANISMS
FTD-TT-62-1097/1&2 N64-17167 09-16

ROLE OF HYPOPHYSEAL-ADRENAL SYSTEM IN IMMUNOLOGICAL AND INFECTION PROCESSES
N64-17168 09-16

DISRUPTIONS OF NATURAL IMMUNITY IN IRRADIATED ANIMALS AND METHODS OF REESTABLISHING
N64-17169 09-16

INFLUENCE OF CHEMOTHERAPEUTIC AGENTS ON PROTECTIVE FUNCTIONS OF ORGANISMS N64-17170 09-16

INFLUENCE OF PHYSICAL AGENTS ON PHYSIOLOGICAL MECHANISMS WHICH PROTECT ORGANISMS FROM DISEASE
N64-17171 09-16

ROLE OF ANAEROBIC & OXIDATIVE PHOSPHORYLATION PROCESSES IN PROTECTIVE FUNCTIONS OF ORGANISMS
N64-17172 09-16

PROPERTIES OF SERUM FROM RABBITS IMMUNIZED WITH HUMAN URINARY ERYTHROPOIETIN - HUMAN PHYSIOLOGY
N64-22854 16-16

EXPERIMENTAL BIOLOGY, IMMUNOLOGY, WEIGHTLESSNESS, AND ACCELERATION STRESS
FTD-TT-62-1164/1&2&4 N64-23454 16-16

ACTION OF ANTIBACTERIAL IMMUNITY ON RESISTANCE TO RADIATION
FTD-TT-63-933/1&2 N64-26722 18-16

REMOTE IMMUNOLOGICAL CONSEQUENCES OF EFFECT OF IONIZING RADIATION N64-30246 22-16

PREPARATION, SEDIMENTATION, ELECTROPHORETIC PROPERTIES, AMINO ACID COMPOSITION, IMMUNOLOGY, AND CRYSTALLIZATION OF TRIOSE PHOSPHATE DEHYDROGENASE N64-32048 23-16

IMMUNOLOGY AND THERAPY FOR IONIZING RADIATION
JPRS-27203 N64-33577 24-16

IMMUNOLOGY STUDIES - PREVENTION OF RADIATION SICKNESS, ANTHRAX VACCINE, LENGTH OF IMMUNITY TO SMALLPOX, AND EFFECTIVENESS OF PROPHYLACTIC VACCINATION
JPRS-27281 N64-33961 24-16

IMPACT
SA ELECTRON IMPACT
SA HYPERVELOCITY IMPACT
SA PENETRATION
CF SHOCK
INTERPLANETARY DUST PARTICLE IMPACT ON LUNAR SURFACE
NASA-TN-D-2100 N64-11906 03-29

HUMAN SURVIVABILITY OF EXTREME IMPACTS IN FREE FALL
CARI-63-15 N64-11995 03-16

TENSILE AND IMPACT PROPERTIES OF STRUCTURAL MATERIALS FROM 20- TO 300-DEG K
NBS-MONOGRAPH-63 N64-12003 03-18

PROPAGATION OF WAVES OF PLASTIC DEFORMATION IN RODS UNDERGOING FREE FLIGHT IMPACT WITH DIFFRACTION GRATING STRAIN GAGES
N64-13438 05-23

DYNAMIC RESPONSE OF TWO-DIMENSIONAL STRUCTURES TO IMPULSE LOADING N64-13440 05-23

HYPERVELOCITY PROJECTORS FOR ACCELERATION OF PROJECTILES FOR IMPACT STUDIES N64-13442 05-23

EQUATION FOR ACCELERATION OF LONGITUDINAL, ROTARY, AND LATERAL VIBRATION OF SHOCK ABSORBER BY IMPACT LOAD N64-13576 04-15

NET SEAT ACCELERATION CHARACTERISTICS DURING GROUND IMPACT
FDFR-TM-63-25 N64-14623 06-04

IMPACT AND FLEXURE PROPERTIES OF PLASTIC FACED PANELS OF SANDWICH CONSTRUCTION
PSNS-MAT-LABS-P-565 N64-14631 06-19

ELASTIC & PLASTIC DEFORMATION OF METALS BY IMPACT AND EXPLOSIVE LOADING N64-15108 07-33

IMPACT RADIATION ON COLLISION BETWEEN PROJECTILE & TARGET
NASA-CR-55783 N64-15876 07-23

COLD HARDENING AND RECRYSTALLIZATION OF STEEL ALLOY UNDER IMPACT DEFORMATION
FTD-TT-62-1318/1&2 N64-16346 08-11

EVALUATION OF EARTH SOIL IMPACT BY CYLINDRICAL PROJECTILES FROM NUCLEAR POWER SUPPLY SYSTEMS
SC-RR-316-63 N64-17260 09-30

MICROPULSATION FROM METEORS, NUCLEAR EXPLOSION, AND MANMADE SOURCES
AD-433505 N64-17634 09-12

GAS MOVEMENT UNDER ACTION OF CONCENTRATED IMPACT ON ITS SURFACE

FTD-MT-63-80/1&2&3&4 N64-18525 11-23

ANALYSIS OF IMPACT ON QUASI-INFINITE, FINITE, THIN PLATE, AND SHIELDED TARGETS
ASRL-99-2 N64-19126 11-23

METEOR IMPACTS AND EXPLOSIONS AS FACTOR IN FORMATION OF LUNAR SURFACE N64-19452 12-05

PEAK SHOCK VELOCITY RECORDER FOR STUDYING TRANSPORTATION SHOCK CONDITIONS N64-20241 13-15

EXPLOSION INITIATION MECHANISM IN STANDARD IMPACT SENSITIVITY TESTER - PROPYL NITRATE STUDIES
RPL-TDR-64-61 N64-21408 14-26

BIOMEDICAL RESEARCH IN ACCELERATION, IMPACT, WEIGHTLESSNESS, VIBRATION, AND EMERGENCY ESCAPE AND RESTRAINT SYSTEM - BIBLIOGRAPHY
CARI-63-30 N64-22711 15-16

OBTAINING IMPACT DEFORMING FORCES BY MEANS OF ELECTROHYDRAULIC SHOCKS
FTD-TT-63-25/1&2 N64-23413 16-23

LANDING IMPACT STRESS ON ANIMALS IMMERSED IN WATER N64-23763 16-16

INTERACTION OF HIGH-SPEED PARTICLES WITH GASEOUS TARGETS - IMPACT LIGHT FLASH & IONIZATION EFFECTS
NASA-CR-56620 N64-23994 16-23

ELASTIC AIRBAG RESTRAINT SYSTEMS FOR VIBRATION AND IMPACT PROTECTION OF ASTRONAUTS OR AIRCRAFT PASSENGERS
AIAA PAPER-64-220 N64-24972 17-16

EFFECT OF GEOPHYSICAL AND GEODETIC UNCERTAINTIES AT LAUNCH AREA ON BALLISTIC MISSILE IMPACT ACCURACY
BSD-TDR-63-256, REISSUE A N64-25244 17-29

INTERNAL ENERGY AND DEFORMATION IN ROD-TO-ROD IMPACT N64-25347 17-23

PREDICTING IMPACT POINT OF BALLISTIC ROCKET USING DIGITAL IMPACT COMPUTER
WRE-TN-TRD-12 N64-25654 17-04

CONCEPTS OF MULTIPLE-IMPACT STUDY OF ENERGY ABSORPTION - CYCLIC STRAIN ENERGY IMPACT DEVICE
NASA-CR-56445 N64-25770 17-15

IMPACT OF EQUIPMENT LIFE CHARACTERISTICS ON MISSILE TEST PLANNING
RM-4102-PR N64-26199 18-17

ANALYSIS OF PLASTIC WAVE PROPAGATION IN A FINITE LENGTH BAR IN HIGH VELOCITY TENSION - IMPACT LOAD N64-28101 20-33

IMPACT VELOCITY EFFECT ON RESISTANCE OF METALS TO PLASTIC FLOW
FTD-MT-64-217 N64-30155 21-18

TRACKING FEASIBILITY, LUNAR TRANSPONDER DESIGN AND FABRICATION, AND LUNAR IMPACT POINT MARKER
GD/A-63-0933 N64-30200 21-15

INTERACTION POTENTIAL DETERMINATION FOR COLLISION INVOLVING PROTON APPROACHING AXIS OF HYDROGEN MOLECULE
NOLTR-64-85 N64-31673 23-23

TRANSMISSION OF OSCILLATIONS THROUGH NONLINEAR RUBBER SHOCK ABSORBER UNDER IMPACT N64-31872 23-15

TEST FACILITY FOR SIMULATION OF LIQUID IMPACT IN SPACE VEHICLE AND BOOSTER TANK
NASA-CR-59016 N64-32897 24-11

INITIATION OF DETONATION BY IMPACT OF NITROMETHANE JET ON PLEXIGLASS, MAGNESIUM, AND ALUMINUM
QR-2 N64-33929 24-26

IMPACT PREDICTION
PREFIRING DATA FROM ADVANCED MODEL OF AUTOMATIC ROCKET IMPACT PREDICTOR
ERDA-82 N64-12593 04-20

METEOROLOGICAL DATA FOR AEROBEE ROCKET LAUNCHING AND IMPACT CALCULATION
ERDA-101 N64-14347 06-21

METEOROLOGICAL DATA FOR AEROBEE ROCKET LAUNCHING AND IMPACT CALCULATION
ERDA-102 N64-14348 06-21

RATIONAL METHOD FOR PREDICTION OF GEAR LOADS DURING LANDING OF V/STOL AIRCRAFT
ASD-TDR-62-555, VOL. 1 N64-14485 08-04

IMPACT PREDICTION OF SYMMETRICAL AND ASYMMETRICAL LANDING OF AIR AND SPACE VEHICLES WITH SPIKE, ARTICULATED, & CANTILEVERED GEAR
ASD-TDR-62-555, VOL. 2 N64-14486 06-04

WIND MEASUREMENT & IMPACT PREDICTION FOR UNGUIDED SOUNDING ROCKETS
NASA-TN-D-2142 N64-15972 07-30

IMPACT RESULTS OF AEROBEE 150A LAUNCHINGS AT WALLOPS ISLAND
NASA-TM-X-51579 N64-18500 10-29

REGRESSION EQUATIONS FOR IMPACT PREDICTION OF AEROBEE-HI ROCKET
ERDA-126 N64-18891 11-32

PARTIAL DERIVATIVES FOR COMPUTING ERRORS IN ELLIPTICAL ORBIT AND IMPACT PREDICTION
SSD-TDR-63-255 N64-21085 14-29

IMPACT PREDICTION FOR AEROBEE HI ROCKET
ERDA-138 N64-21692 15-29

IBM 7044 COMPUTER PROGRAM IN FORTRAN FOR DETERMINING LAUNCH ANGLES FOR UNGUIDED ROCKETS
ERDA-148 N64-24344 17-20

MISSILE IMPACT LOCATING SYSTEM/BROAD OCEAN AREA - POST-TEST CALIBRATION N64-29110 21-08

REAL TIME COMPUTER SYSTEM FOR PREDICTING MISSILE IMPACT POINT N64-29118 21-08

METEOROLOGICAL DATA AND BALLISTIC STUDIES FOR AEROBEE 4.67 NP LAUNCH AND IMPACT PREDICTION
ERDA-151 N64-31912 23-21

IMPACT TEST
IMPACT AND THERMAL TESTS ON TRANSPORT CONTAINERS FOR FISSIONABLE MATERIAL
LAMS-2983 N64-13166 04-01

STATIC & DYNAMIC TESTS ON LEAD-SHIELDED STEEL CASK USED FOR RAIL SHIPMENT OF RADIOACTIVE FUEL
DP-843 N64-13372 04-33

CHARPY IMPACT STRENGTH TESTING OF D6AC AND 4330-V ALLOY STEEL AT ROOM TEMPERATURE AND MINUS 65 DEG F
FTDM-3135 N64-20054 13-18

ALUMINUM ALLOY CASTINGS WITH HIGH IMPACT STRENGTH AT LOW TEMPERATURES
NASA-CR-58 N64-21254 14-18

PRODUCTION OF COMPOSITES OF BERYLLIUM ON STAINLESS STEEL AND NIOBIUM TUBING FOR IMPACT TARGETS IN METEOROID COLLISION SIMULATION TESTS
NASA-CR-54144 N64-28460 20-18

IMPACT TESTING MACHINE
AIR-ACCELERATED IMPACT MECHANICAL SHOCK MACHINE - SHOCK TESTING N64-20246 13-06

IMPACT TOLERANCE
TENSILE, IMPACT, AND AXIAL FATIGUE PROPERTIES OF STEEL B-58 WING PYLON BOXES AFTER REPAIR WELDING
FGT-2956 N64-20038 13-18

BIRD IMPACT RESISTANCE OF WINDSHIELDS FOR HIGH PERFORMANCE TRANSPORT AIRCRAFT
FAA-ADS-8 N64-20628 13-04

WELD HEAT-AFFECTED ZONE OF CAST STEEL - EFFECT OF THERMAL CYCLING ON IMPACT STRENGTH
WVT-ID-6316 N64-33898 24-18

IMPACTOR
SEISMIC MODEL IMPACTER FOR PHOTOELASTIC STUDIES OF PROPAGATING WAVES
AFCRL-63-790 N64-12858 04-15

PARTICLE SIZE DISTRIBUTIONS ON CASCADE IMPACTOR USED TO SAMPLE AEROSOLS
LF-12 N64-12939 04-15

IMPEDANCE
CF ELECTRIC PROPERTY
CF RESISTANCE
SURFACE IMPEDANCE OF THIN PLASMA SHEETS
TDR-269/4280-10/-1 N64-12580 04-24

MULTILOBE DIRECTIVITY PATTERN IN SURFACE-WAVE ANTENNA BY MODULATION OF IMPEDANCE PLANE
N64-12744 04-08

IMPEDANCE OF VERTICAL MONOPOLE ANTENNA OVER RADIAL GROUND WIRE ON IMPERFECTLY CONDUCTING EARTH
REPT.-8900-11-89422 N64-14683 06-09

CANCELLATION OF RESPIRATION EFFECTS ON TRANS-THORACIC IMPEDANCE
SAM-TDR-63-99 N64-15745 07-16

EQUATIONS FOR MUTUAL SELF-RADIATION IMPEDANCES BETWEEN ARRAY OF ELEMENTS WITH FREE-FLOODING, COAXIAL, SPACE RING TRANSDUCERS
U-178-48 N64-19133 11-23

IMPEDANCE OF COMMERCIAL LECLANCHE DRY CELLS AND BATTERIES
NBS-TN-190 N64-20515 13-06

TISSUE RESISTIVITY IN VIVO AND TRANSTHORACIC IMPEDANCE
SAM-TDR-64-5 N64-21803 15-16

HIGH IMPEDANCE CATHODE FOLLOWERS FOR PIEZOELECTRIC PRESSURE GAUGE RECORDING
BRL-1474 N64-22523 15-09

FILTER INSERTION LOSS AS FUNCTION OF GENERATOR LOAD AND FILTER IMPEDANCES N64-22833 16-09

STRONG VERTICALLY POLARIZED HIGH IMPEDANCE FIELDS OF DRIVEN VERTICAL MONOPOLE ANTENNAS
N64-22849 16-09

MECHANICAL IMPEDANCE SIMULATION IN SHOCK AND VIBRATION TESTING N64-23152 16-23

WAVE PROPAGATION IN NONUNIFORM WAVEGUIDES WITH IMPEDANCE WALLS
AD-440499 N64-27144 19-08

BEVERAGE ANTENNA PERFORMANCE AS FUNCTION OF ELEVATION ANGLE, FREQUENCY, ARRAY RADII, AND GROUND CONSTANTS
REPT.-3 N64-27525 19-08

RADIATION PATTERN AND DRIVE POINT IMPEDANCE OF TRAVELING WAVE ANTENNA FOR RADIO ASTRONOMY
NASA-CR-56937 N64-27882 20-08

DEVICES FOR MEASURING MECHANICAL IMPEDANCE
DTMB-1584 N64-28708 20-15

DISTRIBUTION OF CURRENT AND ADMITTANCE OF CYLINDRICAL ANTENNA CONSTRUCTED OF IMPERFECT CONDUCTORS
TR-440 N64-29430 21-08

DRIVING-POINT IMPEDANCE OF ELECTRICALLY SHORT CYLINDRICAL ANTENNA IN IONOSPHERE - SATELLITE RADIO COMMUNICATION SYSTEMS
TR-EE-109 N64-30734 22-08

ELECTROMAGNETIC WAVE PROPAGATION IN IONOSPHERE - SCATTER AND IMPEDANCE
JPRS-27125 N64-33226 24-08

IMPEDANCE MATCHING
S ANTENNA COUPLER

IMPEDANCE MEASUREMENT
CF PRESSURE MEASUREMENT
MEASURING IMPEDANCE CHANGE IN PEAK-TO-PEAK AMPLITUDE ACROSS THORAX & HEART RATE AS BEAT-TO-BEAT DIRECT CURRENT VOLTAGE
SAM-TDR-63-69 N64-11773 03-16

THORACIC RESPIRATION AND MODE OF INSPIRATION INFLUENCE ON IMPEDANCE PNEUMOGRAPH CALIBRATION
SAM-TDR-63-100 N64-17312 09-16

DIPOLE ANTENNA INPUT IMPEDANCE CHANGE DUE TO GROUND EFFECT
NBS-MONOGRAPH-72 N64-21211 14-08

IMPEDANCE MEASUREMENT OF CARDIAC OUTPUT - THORACIC CAGE IMPEDANCE MEASUREMENTS
SAM-TDR-64-15 N64-21597 15-16

CRACK PROPAGATION SPEED IN ALUMINUM SHEET USING IMPEDANCE MEASUREMENTS
FF-HE-988 N64-25194 17-33

IMPEDANCE PNEUMOGRAPH SIGNAL CONDITIONER
NASA-CR-56834 N64-25572 17-16

IMPEDANCE PLETHYSMOGRAM MEASUREMENT OF HEART OUTPUT
SAM-TDR-64-23 N64-27493 19-16

IMPEDANCE MEASUREMENT BASED ON THREE POSITION SAMPLING OF TRANSMISSION LINE STANDING WAVE
USRL-74 N64-27745 19-08

DEVICES FOR MEASURING MECHANICAL IMPEDANCE
DTMB-1584 N64-28708 20-15

ANTENNA IMPEDANCE DETERMINATION FROM SLOTTED LINE MEASUREMENTS - LINE ATTENUATION
AFCRL-64-682 N64-31997 23-08

IMPEDANCE PROBE
RADIATION HARDENING PROCESS FOR STANDING WAVE IMPEDANCE PROBE
AFCRL-63-753 N64-15728 07-23

IMPELLER
SA ROTOR BLADE
SA STATOR
SA TURBINE WHEEL
CASTING IMPELLERS IN CHILL MOLDS WITH CERAMIC CORES N64-23510 16-19

CASTING IMPELLER BLADES OF HEAT RESISTANT STEEL FOR TURBOCOMPRESSOR N64-29045 21-18

IMPINGEMENT
INTERPLANETARY DUST AND DEBRIS NEAR EARTH AND IMPINGEMENT ON EARTH N64-18460 10-05

HIGHLY UNDEREXPANDED FREE JETS IMPINGING ON FLAT SURFACE
NASA-TN-D-2326 N64-23374 16-11

JET IMPINGEMENT FORCES ON CYLINDER IN EXHAUST FLOW OF CONICAL NOZZLE ISSUING INTO VACUUM ENVIRONMENT
U-2634 N64-28960 20-11

IMPLANTATION
CATHETER FOR RIGHT HEART AND PULMONARY ARTERY IMPLANTATION
SAM-TDR-64-10 N64-18918 11-16

P-N JUNCTION FORMATION BY ION IMPLANTATION AND PLASMA DEPOSITION TECHNIQUES
REPT.-2 N64-25661 17-24

IMPLOSION
CENTRIPETAL ENERGY TRANSPORT DURING SPHERICALLY SYMMETRIC IMPLOSIONS IN FLUIDS
DVL-306 N64-15031 07-11

COMBUSTION PROCESSES OCCURING IN IMPLOSION DRIVEN HYPERVELOCITY LAUNCHER COMBUSTION CHAMBER
UTIAS-TN-71 N64-27563 19-26

IMPREGNATED MATERIAL
IMPREGNATION AND SUBSEQUENT HEAT TREATMENT OF GRAPHITE TO INCREASE STRENGTH AND DENSITY
WADD-TR-61-72, VOL. XXXI N64-26882 18-19

IMPREGNATION
HYDROSTATIC PRESSING, IMPREGNATION, AND CRACKING OF METAL POWDERS AND RADIATION METHOD FOR PREPARING FINE PARTICLES
JPRS-18407 N64-11478 03-01

WETTING & IMPREGNATION OF TITANIUM AND ZIRCONIUM NITRIDE BRIQUETS BY MOLTEN COBALT AND NICKEL TO PRODUCE HEAT- AND WEAR-RESISTANT MATERIALS
N64-11481 03-18

IMPULSE
THRUST-TO-WEIGHT RATIOS AND SPECIFIC IMPULSES ON TRAJECTORY PARAMETERS FOR INTERPLANETARY MISSIONS
NASA-TM-X-51104 N64-11300 02-27

THRUST-WEIGHT RATIO AND SPECIFIC IMPULSE EFFECT ON TRAJECTORY PARAMETERS & TRAJECTORY REQUIREMENTS FOR INTERPLANETARY MISSIONS
NASA-TN-D-1829 N64-13054 04-27

FIRST AND SECOND ORDER BEAM OPTICS OF CURVED, INCLINED MAGNETIC FIELD BOUNDARY IN IMPULSE APPROXIMATION
SLAC-24 N64-15396 07-23

TRAJECTORY PARAMETERS FOR ESCAPING FROM & BRAKING INTO EARTH ORBIT UTILIZING SINGLE VEHICLE STAGE WITH HIGH SPECIFIC IMPULSE
NASA-TM-X-53002 N64-15623 07-27

MATHEMATICAL METHOD FOR INVESTIGATING IMPULSE ACTIVITY OF CENTRAL NEURONS OF BRAIN
N64-19440 12-16

DYNAMIC ANALYSIS OF GENERAL PURPOSE RELAYS AND APPLICATION TO IMPROVEMENT OF IMPULSE RELAYS
N64-19531 12-09

MECHANICS AND GEOMETRY OF GENERAL ORBIT CHANGE OF EARTH SATELLITE ORBIT CAUSED BY SINGLE IMPULSE - DIGITAL COMPUTER PROGRAM
ESD-TDR-63-481 N64-19772 12-29

ELASTIC DEUTERON REACTIONS IN IMPULSE APPROXIMATION
TH-46 N64-22043 15-23

OPTIMUM LAUNCHING OF BODY INTO HYPERBOLIC ORBIT BY TWO UNEQUAL IMPULSES
PIBAL-824 N64-22680 15-29

DEVELOPMENT OF GEOMAGNETIC STORMS AFTER NEGATIVE SUDDEN IMPULSE N64-26295 18-12

STRESS ANALYSIS OF EXPLOSIVE FORMING TANK BY IMPULSE METHOD
NASA-CR-58365 N64-29224 21-33

IMPULSE NOISE INTERFERENCE IN COMMUNICATIONS CHANNELS - INTEGRAL FUNCTION DEFINITION OF STOCHASTIC PROCESS
RR-63-3 N64-30748 22-08

TOTAL IMPULSE MEASURING SYSTEM FOR SOLID PROPELLANT ROCKET ENGINE
RPL-TDR-64-111 N64-31826 23-15

PARAMETRIC MISSION ANALYSIS FOR PRELIMINARY DESIGN OF HIGH SPECIFIC IMPULSE NUCLEAR ROCKETS
NASA-TN-D-2760 N64-32637 23-29

HIGH SPECIFIC IMPULSE HALL CURRENT PLASMA ACCELERATOR
NASA-CR-54062 N64-32858 24-27

PERFORMANCE OF HIGH SPECIFIC IMPULSE LIQUID-COOLED ARC JET ENGINE USING HYDROGEN AS PROPELLANT
AIAA PAPER-64-669 N64-33144 24-27

MOTION OF SINGLE DEGREE OF FREEDOM VISCOELASTIC SYSTEM SUBSEQUENT TO INITIAL IMPULSE
ML-TDR-64-244 N64-33272 24-18

IMPULSE ORBITAL TRANSFER
ONE AND TWO IMPULSE ORBITAL TRANSFER - OPTIMAL N-IMPULSE PROBLEM INCLUDING COPOLAR ELLIPTICAL ORBITS
SPEC. REPT.-4 N64-20956 14-29

IMPULSE ORBITAL TRANSFER FOR NEARLY TANGENT COPLANAR ELLIPTICAL ORBITS
SPEC. REPT.-5 N64-20957 14-29

IMPURITY
CF PURITY
EVALUATION OF SCAVENGER ELEMENTS FOR REMOVAL OR STABILIZATION OF INTERSTITIAL IMPURITIES IN CHROMIUM
ARL/MET-50 N64-11386 02-18

INFLUENCE OF DIFFUSION OF RADIATING IMPURITIES ON CONVECTIVE HEAT EXCHANGE FOR AXISYMMETRIC BLUNT-NOSED BODY N64-11715 03-13

IMPURITIES IN SILICON & GERMANIUM DISCOVERED BY ELECTRON SPIN RESONANCE AND INFRARED ABSORPTION
HP-9 N64-13036 04-18

RANDOM SPACE DISTRIBUTION OF IMPURITY ATOMS NEAR P-N JUNCTION, AND EXCESS NOISE IN SEMICONDUCTORS
AD-423372 N64-13130 04-09

DISPERSION OF ATMOSPHERIC POLLUTION - CALCULATIONS
JPRS-22598 N64-13227 04-21

EFFECTS OF IMPURITIES & NEUTRON IRRADIATION ON PROPERTIES & STRUCTURE OF POLYCRYSTALLINE & SINGLE CRYSTAL MOLYBDENUM, NICKEL, AND RHENIUM
N64-14227 06-18

MASS SPECTROGRAPHY AND OTHER METHODS OF DETECTION AND QUANTITATIVE ANALYSIS OF MINUTE IMPURITIES IN BERYLLIUM
AD-410234 N64-14969 06-07

IMPURITY CONDUCTION IN SEMICONDUCTORS
NIJS-R-419 N64-15962 07-25

IMPURITY EFFECT ON HEAT RESISTANCE OF ALUMINUM-BASED COPPER ALLOYS
FTD-MT-63-148 N64-18686 11-18

INTERPRETATION OF ULTRAVIOLET SPECTRUM OF BORON FLUORIDE WITH IMPURITIES
AD-433692 N64-18888 11-23

PROBABILITY OF PHONONLESS TRANSITION IN CENTERS OF IMPURITY IN CRYSTALS
RSIC-156 N64-20459 13-25

OXYGEN IMPURITY EFFECTS ON LIQUID METAL CORROSION OF SOLID METALS N64-20789 14-07

NITROGEN AND HYDROGEN IMPURITIES IN LIQUID METAL CORROSION OF SOLID METALS N64-20790 14-07

CARBON IMPURITY EFFECTS ON LIQUID METAL CORROSION PROCESSES N64-20791 14-07

EFFECTS OF IMPURITIES ON PHOTOTHERMOTROPIC PROPERTIES OF ALKALINE EARTH TITANATES
NASA-TN-D-2306 N64-21270 14-07

EFFECTS OF INTERSTITIAL IMPURITIES ON LOW TEMPERATURE TENSILE PROPERTIES OF TUNGSTEN
NASA-TN-D-2287 N64-22750 16-18

DETERMINATION OF METALLIC IMPURITIES IN WATER BY ATOMIC ABSORPTION SPECTROMETRY
DP-879 N64-26487 18-07

SPECTROGRAPHIC METHODS FOR IMPURITY ANALYSIS OF REFRACTORY ELEMENTS N64-27591 19-07

IMPURITY ANALYSIS OF REFRACTORY ELEMENTS
N64-27592 19-07

ANIONIC IMPURITIES IN SURFACE REGION OF SODIUM CHLORIDE CRYSTALS
NASA-TN-D-2434 N64-27944 20-07

EFFECT OF ZINC IMPURITIES ON PHOTOELECTRONIC

CHARACTERISTICS OF SINTERED CADMIUM SELENIDE LAYERS
MTER-8 N64-28197 20-25

ENERGY LEVELS OF TRANSITION METAL IMPURITIES IN SEMICONDUCTORS N64-28667 20-25

EFFECT OF BORON ON RECOVERY AND RECRYSTALLIZATION OF PURE IRON & EFFECT OF PRECIPITATED IMPURITIES AND STRAIN ON GRAIN GROWTH IN PURE IRON
AD-602137 N64-28863 20-25

OPEN-CYCLE FUEL CELL SYSTEM - STATIC VAPOR PRESSURE CONTROL, PURGING OF INERT IMPURITIES FROM REACTANT GASES, AND TESTS ON GAS COOLED FUEL CELL SYSTEM MOCKUP
NASA-CR-58313 N64-28955 20-06

IMPURITY STRIATIONS IN GALLIUM ARSENIDE CRYSTALS GROWN FOR USE IN LASERS
AD-442598 N64-29641 21-25

IMPURITY EFFECTS ON ZIRCALOY-2 MICROSTRUCTURE, MECHANICAL PROPERTIES, AND CORROSION RATES
BM-RI-6536 N64-30398 22-18

EFFECT OF IMPURITIES ON RADIATION DAMAGE IN SILICON SOLAR CELLS
NASA-RP-314 N64-30659 22-06

IMPURITY EFFECTS ON RESISTIVITY RECOVERY SPECTRUM OF COLD WORKED CADMIUM
TR-6 N64-30678 22-18

ESTIMATION OF TRACE IMPURITIES BY FLUORIMETRIC METHODS - LITERATURE SURVEY AND EXPERIMENTS WITH FLUORESCENCE REAGENTS AND SEPARATION TECHNIQUES
FTR/1/GE, PT. 1 N64-31322 22-07

ESTIMATION OF TRACE IMPURITIES BY FLUORIMETRIC METHODS - FLUORESCENCE REAGENT SELECTION AND INSTRUMENTATION
FTR/2/GE, PT. 2 N64-31323 22-07

IMPURITY ASSAY METHODS, AND EFFECT OF CARBON AND OXYGEN ON WORKING AND MECHANICAL PROPERTIES OF MOLYBDENUM
REPT.-4 N64-32076 23-18

QUANTITATIVE EMISSION SPECTROGRAPHIC METHODS FOR DETERMINATION OF IMPURITIES IN PLUTONIUM
NBL-215 N64-32171 23-07

MASS SPECTROSCOPY AND GAS ANALYZER FOR OXYGEN AND OTHER IMPURITIES IN ARGON AND HELIUM
NASA-CR-59004 N64-33035 24-07

ANALYTICAL METHODS FOR OXYGEN, NITROGEN, AND CARBON IMPURITIES IN CESIUM METAL - NEUTRON ACTIVATION, GAS CHROMATOGRAPHY, PHOTOMETRY, AND INFRARED ANALYZER TECHNIQUES
ML-TDR-64-199 N64-33912 24-07

MASS SPECTROMETRIC ANALYSIS OF GASEOUS IMPURITIES EVOLVED FROM CESIUM SUBJECTED TO HIGH TEMPERATURE REFLUX DISTILLATION
ML-TDR-64-200 N64-33913 24-07

IN FLIGHT THRUST MEASUREMENT
IN-FLIGHT THRUST MEASUREMENT METHODS FOR COCKPIT PRESENTATION OF JET ENGINE PERFORMANCE
F-A2495-8 N64-25741 17-27

INCANDESCENCE
S FILAMENT
S LAMP

INCIDENCE
ASYMPTOTIC DIRECTION OF APPROACH OF VERTICALLY INCIDENT COSMIC RAYS IN GEOMAGNETIC FIELD SIMULATION - COMPUTER CALCULATION
AECL-1824 N64-10377 01-28

EFFECT ON BACK SCATTERING BY SIMPLE PLASMA CONFIGURATION OF INCIDENT ELECTROMAGNETIC WAVE PATTERNS
GASL-TR-372 N64-15749 07-24

GRAPHIC METHOD FOR DETERMINING ANGLES OF INCIDENCE AND POLARIZATION OF RADAR ANTENNA RADIATION INPINGING ON RADOME WALL
NADC-EL-6368 N64-19876 12-08

BEHAVIOR OF THREE-DIMENSIONAL TURBULENT BOUNDARY LAYER ON ANNULAR WING AT VARIOUS INCIDENCES
AD-428671 N64-19928 12-20

FORMULAS FOR TRANSMITTED COMPONENT OF PILE-OF-PLATES POLARIZER IN TERMS OF ANGLE OF INCIDENCE, INDEX OF REFRACTION, & NUMBER OF PLATES
NASA-CR-55526 N64-20735 13-29

FREQUENCY AND INCIDENCE OF LIGHT WINDS IN STRATOSPHERE
REPT.-1064 N64-23918 16-12

AZIMUTHAL TELESCOPE FOR INVESTIGATION OF VARIATIONS OF COSMIC RAYS DEPENDENT ON DIRECTION OF PRIMARY RADIATION N64-25930 18-15

FIXED AND VARIABLE FREQUENCY PULSE TRANSMISSION AT OBLIQUE IONOSPHERIC INCIDENCE
IIB-8 N64-26224 18-08

INCINERATOR
S FURNACE

INCLINATION
CF SLOPE
CRITICAL INCLINATION OF CLOSE EARTH SATELLITES FOR CASE OF ASYMMETRICAL POTENTIAL OF MAIN BODY AND SMALL ECCENTRICITY - PECULIAR LIBRATION
NASA-RP-54 N64-10177 01-22

FR-1 SATELLITE ORBIT INCLINATION
NASA-TT-F-9145 N64-33406 24-29

INCOMPRESSIBLE FLOW
INCOMPRESSIBLE FLOWS AND SOUND RADIATION
AGARD-460 N64-16295 08-23

LINEAR THEORY FOR SEPARATED AND NONSEPARATED TWO-DIMENSIONAL, INCOMPRESSIBLE, IRROTATIONAL FLOW ABOUT LIFTING BODIES
AD-423579 N64-16466 08-02

FORMATION OF VORTICES BEHIND CIRCULAR CYLINDERS IN INCOMPRESSIBLE FLOW
AGARD-463 N64-16539 08-23

VELOCITY VARIATION ACROSS MIXING ZONE BETWEEN TWO STREAMS OF DIFFERENT VELOCITY IN ARBITRARY PRESSURE GRADIENT - INCOMPRESSIBLE SHEAR LAYER
MD-9 N64-17855 10-11

EXACT SOLUTION TO NONLINEAR EQUATIONS OF LAMINAR FLOW FOR VISCOUS INCOMPRESSIBLE FLUIDS IN ENTRANCE REGION OF ANNULAR PIPES
MRC-477 N64-18378 10-11

SOLUTIONS OF INCOMPRESSIBLE LAMINAR BOUNDARY LAYER EQUATIONS N64-19160 11-11

SOLUTION OF PRANDTL EQUATIONS FOR INCOMPRESSIBLE LAMINAR BOUNDARY LAYERS N64-19162 11-11

INTEGRAL INVARIANCE OF CLASS OF STEADY STATE VISCOUS INCOMPRESSIBLE FLOWS
MD-63-3 N64-19268 11-11

INCOMPRESSIBLE LAMINAR AXISYMMETRIC WAKE BEHIND SLENDER CYLINDRICAL BODY IN AXIAL FLOW
AS-64-5 N64-20083 13-11

STABILITY PROBLEM OF VISCOUS INCOMPRESSIBLE FLOW BETWEEN ROTATING COAXIAL CIRCULAR CYLINDERS WITH ADDED AXIAL FLOW
DVL-290 N64-20426 13-02

NONSTATIONARY FORCE ON FINITE WING SPAN IN INCOMPRESSIBLE FLOW
DFL-236 N64-21230 14-03

HYDRODYNAMIC STABILITY OF TWO-DIMENSIONAL UNSTEADY INCOMPRESSIBLE LAMINAR BOUNDARY LAYER
AD-600102 N64-21363 14-11

LIFT & MOMENT ON AIRFOIL OSCILLATING IN PITCH

ABOUT QUARTER CHORD LINE IN INCOMPRESSIBLE NONCAVITATING FLOW
TM-607-2441-02 N64-21587 15-02

PRESSURE DISTRIBUTION IN TWO-DIMENSIONAL INCOMPRESSIBLE FLOW
AVA-42-A-20 N64-23209 16-11

VISCOUS INCOMPRESSIBLE FLOW INSIDE CONE
AD-432196 N64-25635 17-11

INCOMPRESSIBLE FLOW IN CONICAL DIFFUSER
AROD-4332-1 N64-33575 24-11

INCOMPRESSIBLE FLUID
NON-NEWTONIAN FLOW IN INCOMPRESSIBLE FLUIDS - TRANSIENT FLOW IN POLYMER SOLUTIONS & MELTS
COA-N-149 N64-10417 01-11

EXTENDED BOUNDARY LAYER THEORY FOR LAMINAR FLOW OF INCOMPRESSIBLE FLUIDS N64-15646 07-11

PERTURBATION ANALYSIS OF STATIONARY FLOW FIELD OF OBJECT MOVING IN VISCOUS, INCOMPRESSIBLE FLUID
NASA-CR-53055 N64-15784 07-11

LOW & HIGH PRANDTL NUMBER APPROACHES FOR HEAT TRANSFER IN LAMINAR FLOW OF INCOMPRESSIBLE FLUIDS WITH CONSTANT MATERIAL PROPERTIES
NASA-TM-X-54568 N64-15887 07-11

HYDRODYNAMICS AND HEAT TRANSFER OF TURBULENT FLOW OF INCOMPRESSIBLE FLUID IN GAP BETWEEN ROTATING COAXIAL CYLINDERS
FTD-TT-62-1743/1&2&4 N64-22394 15-13

NAVIER-STOKES EQUATIONS FOR STEADY FLOW MOTION OF VISCOUS INCOMPRESSIBLE FLUIDS AROUND CONICAL SURFACES
NWL-1922 N64-22707 15-11

STEADY MOTION AND MUTUAL INTERFERENCE OF ANNULAR WING AND INFINITE CYLINDRICAL BODY IN IDEAL INCOMPRESSIBLE FLUID N64-23079 16-03

PULSATING MAGNETOHYDRODYNAMIC FLOW SUPERPOSED ON STEADY LAMINAR FLOW OF INCOMPRESSIBLE VISCOUS FLUID IN ANNULAR CHANNEL
MRC-379 N64-29030 21-24

OSCILLATIONS OF SPHERE IN INCOMPRESSIBLE VISCOUS FLUID ROTATING WITH CONSTANT ANGULAR VELOCITY
NASA-RP-313 N64-31443 23-11

INCONEL
WELDING TESTS OF INCONEL AT ROOM TEMPERATURE BY AGE CONDITION METHOD
A249 N64-11927 03-18

EVALUATION OF INCONEL WELDING OF AGE HARDENABLE NICKEL-CHROMIUM ALLOY AT ROOM TEMPERATURE
A250 N64-11928 03-18

TENSILE, RUPTURE, CREEP, FATIGUE, AND OTHER MECHANICAL PROPERTIES OF INCONEL X
QR-7 N64-13895 05-20

ENGINEERING PROPERTIES OF AGE HARDENING NICKEL-CHROMIUM ALLOY - INCONEL N64-17258 09-18

COMPRESSIVE CRIPPLING TESTS OF CLOSE COLUMN MEMBERS OF RENE 41, INCONEL X, AND TITANIUM ALLOY AT ROOM AND ELEVATED TEMPERATURES
SM-44540 N64-17668 09-33

EVALUATION OF DUCTILE FILLER METALS FOR WELDING INCONEL
A735 N64-22580 15-17

PHYSICAL AND MECHANICAL PROPERTIES OF INCONEL HONEYCOMB CORE
A736 N64-22581 15-18

EFFECTS OF TREATMENT METHODS ON SPECTRAL NORMAL & TOTAL NORMAL EMISSION OF INCONELS AND STAINLESS STEEL
NASA-TN-D-2300 N64-25911 18-18

ELEVATED TEMPERATURE, TENSILE, AND CREEP PROPERTIES OF INCONEL AND OTHER NICKEL BASE ALLOYS
ML-TDR-64-79 N64-31968 23-18

INDENTATION
BALL INDENTATION TECHNIQUE FOR SHEAR COMPLIANCE VARIATION MEASUREMENT IN POLYSTYRENE
ONR-TR-RLT-69 N64-16889 08-19

ROTATIONALLY SYMMETRIC STRESSES AND DEFORMATIONS IN ELASTIC MEMBRANE BY SPHERICAL INDENTER
SUDAER-102 N64-22504 15-33

INDEPENDENT VARIABLE
MIXED BOUNDARY VALUE PROBLEM FOR LINEAR HYPERBOLIC PARTIAL DIFFERENTIAL EQUATIONS IN TWO INDEPENDENT VARIABLES
NOLTR-63-278 N64-15763 07-20

INDEPENDENT SAMPLES AND STANDARD DEVIATION CONFIDENCE LEVELS OF RAYLEIGH-DISTRIBUTED PROCESS
AFCRL-64-737 N64-32114 23-23

CHEBYSHEV TYPE INEQUALITY FOR SUMS OF INDEPENDENT RANDOM VARIABLES N64-32949 24-20

INDEX
S INFORMATION RETRIEVAL

INDIA
METEOROLOGICAL INVESTIGATIONS IN INDIA N64-16301 08-21

THUNDERSTORM ACTIVITY OVER INDIA N64-16305 08-21

SYNOPTIC OSCILLATIONS OF HIGH PRESSURE AREAS OVER INDIA DURING TRANSITION SEASON N64-16306 08-21

EQUATORIAL EXTENSION OF TROUGHS IN UPPER WESTERLIES AND RELATION OF TROPOSPHERIC FLOW TO ONSET OF MONSOON RAINS OVER INDIA N64-16307 08-21

THEORY OF SEA BREEZE AT AND NEAR BOMBAY N64-16308 08-21

WIND CIRCULATION MODEL FOR EXPLAINING BAY OF BENGAL MONSOONS N64-16310 08-21

DEFINITIONS OF MONSOON - CONCEPTS AND LIMITATIONS N64-16311 08-21

INDICATOR
SA DETECTOR
CF ANALYZER
CF METER
FLOW DIRECTION AND PITOT PRESSURE SENSOR
NASA-CR-52286 N64-10098 01-06

ELECTRONIC ANEMO-FLUCTUATION METER TO MEASURE STRUCTURAL PARAMETERS OF FLOW DIRECTION IN VERTICAL AND HORIZONTAL PLANES N64-20220 13-15

SELF-CONTAINED OPTICAL SYSTEM FOR POSITION DETERMINATION IN INTERPLANETARY SPACE
NASA-CR-53989 N64-20586 13-22

ENVIRONMENTAL TESTS ON CRASH POSITION INDICATOR
ATL-TDR-64-20 N64-22272 15-15

THERMOLUMINESCENT DOSIMETER COMPUTER-INDICATOR SYSTEM
S-248-R N64-27915 20-15

DISCRETE INDICATOR OF LIMITING VALUE OF PRODUCT OF TWO CONTINUOUS VOLTAGES N64-28347 20-09

INDICATOR MODULE AND INTEGRATED MODULAR PROGRAMMER
MPR-8 N64-29603 21-15

PRECISION POSITION DETERMINATION BY DISTANCE MEASURING TECHNIQUES USING ELECTRONIC METHODS AND OSCILLATORS
REPT.-2900-453-T N64-32674 23-23

INDIUM
AGE OF FISSION NEUTRONS TO INDIUM RESONANCE ENERGY IN WATER
NAA-SR-8621 N64-11956 03-23

VAPOR PRESSURE OF INDIUM AS FUNCTION OF TEMPERATURE
LA-2995 N64-14402 06-19

DISLOCATION EFFECTS ON MICROSTRUCTURE OF INDIUM FUSED INTO GERMANIUM N64-15016 07-25

NUCLEAR REACTOR INDIUM-GALLIUM RADIATION LOOP
FTD-TT-63-553/1626A N64-16051 07-23

ELECTROCHEMISTRY OF FUEL CELL ELECTRODES - HYDROGEN EVOLUTION AT DROPPING INDIUM AMALGAM ELECTRODE
TM-10 N64-22119 15-06

CHEMICAL COMPOUNDS OF INDIUM WITH GLYCINE
FTD-MT-63-279 N64-26732 18-07

ELECTROCHEMISTRY OF FUEL CELL ELECTRODES - HYDROGEN EVOLUTION AT SOLID INDIUM ELECTRODE
TM-11 N64-27623 19-07

SOLID SOLUTIONS OF QUASI-BINARY SYSTEM INDIUM PHOSPHIDE-GALLIUM PHOSPHIDE - CRYSTALLINE LATTICE IDENTIFICATION
FTD-TT-64-151/1&2 N64-28528 20-25

AGE OF FISSION NEUTRONS TO INDIUM RESONANCE ENERGY
NAA-SR-9503 N64-30034 21-25

SUPERCONDUCTIVITY OF INDIUM AND TIN UNDER UNIFORM COMPRESSION
NASA-TT-F-9152 N64-33409 24-25

INDIUM ALLOY
EFFECTS OF LIQUID-HELIUM-TEMPERATURE PLASTIC DEFORMATION ON SUPERCONDUCTIVITY TRANSITIONS IN LEAD-INDIUM ALLOYS
NASA-CR-58135 N64-26594 18-23

RESISTIVITY CHANGES DURING QUENCHING OF DILUTE BINARY GOLD ALLOYS OF SILVER AND INDIUM
N64-30792 22-25

INDIUM ANTIMONIDE
HALL EFFECT IN INDIUM ANTIMONIDE FILMS ON GLASS
NAVWEPS-8148 N64-10555 01-09

PHOTOELECTRIC MILLIMETER WAVE DETECTION IN INDIUM ANTIMONIDE
RADC-TDR-63-502 N64-13789 05-25

PROPERTIES AND APPLICATIONS OF INTERMETALLIC THIN FILMS OF INDIUM ANTIMONIDE IN HALL EFFECT DEVICES
N64-15115 07-25

PREPARATION OF LOW-ANGLE GRAIN BOUNDARIES IN INDIUM ANTIMONIDE AND STUDY OF ELECTRICAL AND GALVANOMAGNETIC PROPERTIES
REPT.-2404 N64-21359 14-25

EFFECTS OF PLASTIC DEFORMATION, ANNEALING, AND FATIGUE ON ELECTRICAL PROPERTIES OF INDIUM ANTIMONIDE
AD-600256 N64-21583 15-25

INDIUM ANTIMONIDE THIN FILM PREPARATION FOR SEMICONDUCTOR DEVICES
AFCRL-64-278 N64-25976 18-25

HALL EFFECT IN INDIUM ANTIMONIDE THIN FILMS VAPOR-DEPOSITED ON ALUMINUM OR TANTALUM SUBSTRATES
NAVWEPS-8167 N64-31166 22-25

DOPING OF INDIUM ANTIMONIDE & GERMANIUM DETECTORS
NRL-MEMO-1550 N64-33730 24-25

INDIUM COMPOUND
MASS SPECTROMETRIC DETERMINATION OF DISSOCIATION ENERGIES OF GASEOUS INDIUM-SULFUR COMPOUNDS
WADD-TR-60-782, PT. 12 N64-11171 02-18

GROWTH OF MIXED CRYSTALS OF GALLIUM ANTIMONIDE & GALLIUM INDIUM ANTIMONIDE FOR DIODES
N64-13752 05-25

INDIUM PHOSPHATE
DIODE FLUORESCENCE DETECTION OF ZINC DIFFUSION INTO RARE-EARTH DOPED GALLIUM ARSENIDE AND INDIUM PHOSPHATE N64-17875 10-25

INDIUM SULFIDE
VAPOR PRESSURE OF INDIUM SULFIDES AS FUNCTIONS OF COMPOSITION AND TEMPERATURE - X-RAY DIFFRACTION & MASS SPECTROMETRIC DETERMINATION
UCRL-10857 N64-13213 04-19

INDUCED FLUID FLOW
INDUCED FLOW IN AND BEHIND TWO-DIMENSIONAL JET SHEETS BOUNDING CAVITY - GROUND EFFECT PHENOMENON
UTIA-94 N64-15801 07-11

INDUCER
INDUCER - PUMP RUNNER TO REDUCE NET POSITIVE SUCTION HEAD
NASA-CR-56315 N64-27880 20-17

INDUCTION
CF ELECTRIC PROPERTY
CF INITIATION
CF MAGNETIC PROPERTY
METAL DEFORMATION AND INDUCTION HEATING DURING ROLLING OF GEARS - COMPARISON WITH MACHINED GEARS
JPRS-19273 N64-10509 01-17

COGNITIVE HYBRID INTELLIGENT LEARNING DEVICE - TWO TYPES OF LEARNING SYSTEMS BASED ON INDUCTIVE AND DEDUCTIVE METHODS OF COGNITION N64-11038 02-20

INDUCTION AND DIPOLE ELECTROMAGNETIC METHODS FOR DETECTING COVERED, INCLINED CONDUCTING SHEETS - GEOLOGICAL SURVEY N64-11492 03-23

TRANSFORMERLESS AND CANONICAL INDUCTANCE-CAPACITANCE, RESISTANCE-CAPACITANCE, AND RESISTANCE-INDUCTANCE LINEAR PASSIVE NETWORKS
AFCRL-63-506 N64-12288 03-09

INDUCTION TIMES IN ONE-DIMENSIONAL DETONATION
FLIGHT SCI. LAB. REPT.-87 N64-14129 05-26

MEASUREMENT OF METAL TEMPERATURE BY ELECTRO-MAGNETIC INDUCTION
HW-79621 N64-15834 07-15

EFFECTS OF MAGNETICALLY INDUCED EDDY-CURRENT TORQUES ON SPIN OF EARTH SATELLITE
NASA-TN-D-2198 N64-18956 11-29

COMBINING INDUCTION HEATERS WITH EXISTING ENVIRONMENTAL TEST FACILITIES FOR CONDUCTING TESTS AT REENTRY TEMPERATURES N64-20255 13-10

EFFECTS OF CONCENTRATION AND VIBRATIONAL RELAXATION ON INDUCTION PERIOD OF OXYGEN AND HYDROGEN CHEMICAL REACTIONS
NASA-TM-X-52022 N64-20548 13-23

TOROIDAL INDUCTORS WITH DIRECT CURRENT BIAS
NASA-TN-D-2320 N64-23027 16-09

HIGH FREQUENCY INDUCTION HEATING FOR ROCK DEFORMATION TESTING
AFCRL-64-215 N64-25478 17-15

MAGNETICALLY INDUCED IONIZATION IN XENON
AD-600531 N64-26532 18-23

ELECTROMAGNETIC INDUCTION ON EXPANDING CONDUCTING SPHERE
TR-421 N64-26940 18-11

INSTRUMENT FOR MEASURING ROOT-MEAN-SQUARE CURRENT IN ELECTRIC FIRING CIRCUITS FOR ASSESSMENT OF INDUCED CURRENT HAZARD
WRE-TN-EID-56 N64-28718 20-15

TRANSISTORIZED CONVERTER FOR SYNCHRONIZATION OF INDUCTION MOTORS
LFEN.13 /ALPHA, ZETA/ N64-29886 21-09

TURBULENCE IN AN ARC PLASMA JET USING ELECTRO-MAGNETIC INDUCTION
SSD-TDR-64-122 N64-30112 21-24

POWER EFFICIENCY OF MAGNETIC INDUCTION PLASMA ENGINE
NASA-CR-54063 N64-31010 22-27

INDUCED VOLTAGE TECHNIQUE FOR EXPLODING PLASTIC PROJECTILE IN BALLISTIC SHOCK TUNNEL
NOLTR-62-173 N64-31075 22-01

INDUCTION SYSTEM
MINIATURE THIN FILM INDUCTORS - FABRICATION TECHNIQUES
REPT.-4003-3 N64-18609 11-09

MINIATURE THIN-FILM INDUCTOR FABRICATION
WF4003 N64-27733 19-09

USE OF ANALOGOUS INDUCTION DEVICES AT CONJUGATE POINTS OF MIDDLE LATITUDES FOR OBSERVATIONS OF MAGNETIC MICROPULSATIONS IN FREQUENCY BAND
NASA-TT-F-8979 N64-33386 24-12

INDUSTRIAL SAFETY
PAPERS ON INDUSTRIAL SAFETY INCLUDING TOXIC AGENTS, CHRONIC IRRADIATION EFFECTS, AND X-RAY WORKERS SAFETY
JPRS-22154 N64-12747 04-16

MAXIMUM PERMISSIBLE CONCENTRATIONS OF NEW CHEMICAL GASES, VAPORS, DUSTS, AND AEROSOLS ALLOWING FOR INDUSTRIAL HYGIENIC SAFETY FROM TOXIC SUBSTANCES N64-12748 04-16

EFFECTS OF CHRONIC IRRADIATION ON CIRCULATION IN WORKERS EXPOSED TO OVERDOSES OF X-RAYS AND GAMMA RAYS - INDUSTRIAL SAFETY N64-12749 04-16

PROTECTION AND INDUSTRIAL SAFETY FOR WORKERS WITH X-RAY MACHINES - RADIATION HAZARD N64-12750 04-16

INDUSTRIAL SAFETY - CARE AND OBSERVATION OF PERSONS WORKING WITH RADIATION SOURCES, AND ANALYSIS OF MEDICAL OBSERVATIONS N64-15677 07-16

PERSONNEL PROTECTION AND SHIELDING FROM RADIATION AND TOXICANTS - POLICY IMPLEMENTATION IN INDUSTRIAL SAFETY PROGRAM AT REACTOR PLANT
Y-1401 N64-15994 07-01

ELECTROSTATIC PRECIPITATOR FOR AEROSOLS - INDUSTRIAL SAFETY
FTD-TT-63-639/1 N64-16382 08-23

CONTROL OF BERYLLIUM DURING PRODUCTION AND TESTING OF HIGH ENERGY PROPELLANTS CONTAINING BERYLLIUM - INDUSTRIAL SAFETY
RPL-TDR-64-10, VOL. 2 N64-18013 10-17

SURVIVAL RATES OF PERSONS IN RADIUM INDUSTRY
NYO-2762 N64-20485 13-16

ELECTRONICS AND INDUSTRIAL SAFETY
FTD-TT-63-1200/1&4 N64-22160 15-16

BERYLLIUM TOXICOLOGY, SYMPTOMATOLOGY OF AFFECTIONS, AND INDUSTRIAL HYGIENE FOR BERYLLIUM PRODUCTION
FTD-TT-63-578/1&2 N64-22352 15-16

INDUSTRIAL SAFETY IN PRODUCTION OF METALLIC THALLIUM AND ITS SALTS
JPRS-25206 N64-23257 16-16

BERYLLIUM AND ITS RELATION TO INDUSTRIAL SAFETY
JPRS-27031 N64-33058 24-16

INDUSTRY
SA INDUSTRIAL SAFETY
EUROPEAN SPACE PROGRAM - EUROSPACE REPORT
JPRS-21879 N64-10209 01-01

FACILITIES AT INSTITUTE OF INDUSTRIAL SCIENCE, UNIVERSITY OF TOKYO N64-10301 01-01

ROLE OF INDUSTRY IN NATIONAL SPACE PROGRAM N64-10351 01-01

DESIGN OF INDUSTRIAL ALUMINUM PROCESSING PLANT
JPRS-17484 N64-10681 02-18

ROLE OF COMPUTERS IN INDUSTRY & ECONOMICS
JPRS-21839 N64-10845 02-20

RATE OF DEVELOPMENT OF USSR ELECTRONICS INDUSTRY
JPRS-18816 N64-11214 02-09

SPACE PROGRAM ECONOMIC ASPECTS - INDUSTRY, SPACE SCIENCE & TECHNOLOGY, EDUCATION, AND METHODS FOR CLOSING GOVERNMENT-INDUSTRY GAP N64-11480 02-01

CHANGES IN INDUSTRY AND ECONOMICS N64-11508 03-01

SCIENCE, TECHNOLOGY, GROWTH OF INDUSTRY, AND SOCIOECONOMIC PROBLEMS N64-11509 03-01

INTEGRATION OF EDUCATION, INDUSTRY, GOVERNMENT, & RESEARCH TO SOLVE SOCIOECONOMIC PROBLEMS N64-11512 03-01

EFFECT OF SCIENTIFIC DEVELOPMENTS ON TRANSPORTATION, COMMUNICATION, POWER RESOURCES, AND CONSTRUCTION INDUSTRIES N64-11514 03-01

COMMUNICATION CHANNEL BETWEEN THE LABORATORY, INDUSTRY, AND THE COMMUNITY TO SOLVE SOCIOECONOMIC PROBLEMS N64-11517 03-03

EFFECTS OF AEROSPACE INDUSTRY MANPOWER AND PRODUCTION DEMANDS ON CIVIL INDUSTRY AND THE COMMUNITY N64-11519 03-01

CHALLENGE OF SPACE RESEARCH & DEVELOPMENT PROGRAM AND IMPACT ON GOVERNMENT, INDUSTRY, & UNIVERSITIES N64-11732 03-01

CYBERNETICS APPLIED TO CHEMICAL INDUSTRY
JPRS-22645 N64-13026 04-07

REACTOR TECHNOLOGY WITH CIVILIAN APPLICATIONS - MATERIALS, FUELS, & RADIOISOTOPES
BMI-1655/DEL./ N64-14159 05-23

IDENTIFICATION OF INDUSTRY-GOVERNMENT PROBLEMS IN AEROSPACE FIELD - SUGGESTED REMEDIAL ACTION N64-16114 08-10

GEIGER COUNTER FOR MEDICINAL AND INDUSTRIAL APPLICATIONS N64-23149 16-09

APPLICATION OF INFRARED ABSORPTION SPECTROSCOPY TO CHEMICAL INDUSTRY N64-27130 19-07

CYBERNETICS - ELECTRONIC MACHINES APPLIED TO INDUSTRIAL PROBLEMS
JPRS-25927 N64-27266 19-17

MEASUREMENT TECHNIQUES AND SOURCES OF INFRARED RADIATION AND PRACTICAL APPLICATIONS IN INDUSTRY
M-004/64 N64-27510 19-15

ANNOTATED BIBLIOGRAPHY ON HUMAN SCIENCES IN INDUSTRY - ERGONOMICS N64-28104 20-14

USE OF CYBERNETIC METHODS IN CHEMISTRY AND CHEMICAL INDUSTRY N64-28349 20-07

BIBLIOGRAPHY ON CREATIVITY, INNOVATION, AND INVENTION FOR INDUSTRY N64-28451 20-01

USE OF AEROSPACE MANAGEMENT TECHNIQUES IN OTHER INDUSTRIES
P-2927 N64-28816 20-01

DYNAMIC AUTOMATIC CONTROLLING, STABILIZING, AND ORGANIZING OF ADAPTIVE SYSTEMS IN INDUSTRIAL CYBERNETICS
FTD-TT-64-231/1&2 N64-29593 21-09

ANNOTATED BIBLIOGRAPHY OF RADIOISOTOPES IN WORLD INDUSTRY
TID-6613, SUPPL. 5 N64-29779 21-07

SPACE PROGRAM EFFECT UPON NEW ENGLAND INDUSTRY AND ECONOMY N64-30328 22-01

SPACE TECHNOLOGY TRANSFER TO CIVILIAN APPLICATION N64-30348 22-01

COMPETING FOR SPACE PROGRAM BUSINESS - MARKETING FACTOR N64-30349 22-01

NASA TECHNOLOGY TRANSFER TO INDUSTRY AND BUSINESS
N64-32041 23-01

PHYSIOCHEMICAL PROCESSES IN BIOCHEMISTRY AND APPLICATIONS IN INDUSTRY
JPRS-27063 N64-33344 24-16

INELASTIC BODY
RESPONSE OF VARIOUS ELASTIC AND INELASTIC BODIES TO DYNAMIC LOADING
AROD-2951-9 N64-26819 18-33

INELASTIC SCATTERING
SA NEUTRON SCATTERING
SA NUCLEAR SCATTERING
CF ELASTIC SCATTERING
OPTICAL MODEL ANALYSIS OF INELASTIC SCATTERING OF NEUTRONS BY HEAVY NUCLEI
BNL-818/T-317/ N64-11643 03-23

CROSS SECTIONS FOR INELASTIC NUCLEAR PROCESSES AT 1.96 BEV/C - PRODUCTION OF TWO RESONANCES
UCRL-11068 N64-11990 03-23

INELASTIC SCATTERING OF HIGH ENERGY ELECTRONS FROM CARBON, OXYGEN, AND CALCIUM
AD-424383 N64-12924 04-23

INELASTIC SCATTERING OF MONOENERGETIC NEUTRONS IN ZIRCONIUM HYDRIDE, POLYETHYLENE, LIQUID METHANE, AND LIQUID PARA-HYDROGEN
GA-4434 N64-16128 08-23

QUASIFREE PROTON-DEUTERON INELASTIC SCATTERING CORRECTIONS NEAR 210-MEV
UR-875-21 N64-17261 09-23

NONADIABATIC THEORY OF INELASTIC SCATTERING OF ELECTRONS FROM ATOMIC HYDROGEN
NASA-TM-X-51667 N64-20594 13-23

INELASTIC SCATTERING OF COLD NEUTRONS MEASURED ON VANADIUM HYDRIDE
EUR-522.D N64-26067 18-23

NONADIABATIC THEORY OF INELASTIC ELECTRON SCATTERING FROM ATOMIC HYDROGEN
NASA-RP-269 N64-26251 18-23

INELASTIC ELECTRON-PROTON, POSITRON-PROTON, AND MUON-PROTON SCATTERING
SLAC-25, PT. 2 N64-31058 22-23

INELASTIC NEUTRON SCATTERING AND INDUCED RADIOACTIVITY FOR CARBON QUALITY APPRAISAL
N64-31791 23-12

INELASTICITY
CORRELATION OF RESONANCE & INELASTIC THRESHOLD INVOLVING UNSTABLE PARTICLES
NUP-63-13 N64-10311 01-23

VERTICAL MOTION OF STRESS WAVE AT VARIOUS SOIL DEPTHS DUE TO VISCOSITY AND INELASTICITY
N64-12413 04-12

MATRIX ANALYSIS METHODS FOR INELASTIC STRUCTURES
RTD-TDR-63-4032 N64-16829 08-33

COMPUTER PROGRAMS FOR INELASTIC KINEMATICS AND DENSITY OF PARTICLES ON PLANE
CERN-64-8 N64-18205 10-23

INERT GAS
VELOCITY DECREMENT OF DETONATION WAVE IN GASEOUS EXPLOSIVE BOUNDED BY INERT GASEOUS MEDIUM
AROD-3559-1 N64-14323 06-26

CLEANUP AND THERMAL RECOVERY OF INERT GASES AT INTERFACE BETWEEN HIGH POWER MICROWAVE DISCHARGE AND QUARTZ SURFACES
SCL-5794 N64-16852 08-09

INERT-GAS SHIELDED ARC WELDING OF HEAT RESISTANT ALLOYS N64-17092 09-17

OPTIMUM SYSTEM OF WELDING CONTROLS TO INTEGRATE TRAVEL SPEED & WIRE FEED IN METAL INERT GAS WELDING PROCESS
NASA-CR-53246 N64-17572 09-17

ABSORPTION OF INERT GASES FROM SUBCUTANEOUS GAS POCKETS IN RATS DURING RESPIRATION
N64-17947 10-16

SURVIVAL OF MICE IN ABSENCE OF INERT GAS
N64-17953 10-16

ELECTRIC ARC WELDING OF TITANIUM IN INERT GAS STREAM
FTD-MT-63-31/1&2 N64-18748 11-17

STATIC PRESSURES OF SODIUM VAPOR EXPANSION WITH INERT-GAS-INJECTION PRESSURE-MEASURING TECHNIQUE
NASA-TN-D-2276 N64-18961 11-02

GAS IONIZATION FOR REMOVAL OF INERT GASES FROM TITANIUM GETTER PUMP
AEDC-TDR-64-83 N64-23974 16-09

SPIN RELAXATION OF OPTICALLY PUMPED CESIUM VAPOR AS FUNCTION OF BUFFER GAS PRESSURE FOR VARIOUS INERT GASES
R-202 N64-25862 18-23

RADIATOR AREA POTENTIAL OF OUT-OF-PILE THERMIONIC SPACE POWER SYSTEM USING INERT GAS AS HEAT TRANSFER MEDIUM
NASA-TN-D-2429 N64-26781 18-06

ANTIRADIATION EFFECT OF INERT GASES AND LOW-MOLECULAR NARCOTICS ON BEAN SPROUTS
JPRS-25703 N64-27055 19-16

WEAK INTERACTION MODEL FOR GAS PHASE REACTION BETWEEN DIATOMIC MOLECULES AND INERT GAS
TN-6 N64-31297 22-07

INERTIA
SA INERTIAL FORCE
SA INERTIAL GUIDANCE
INERTIAL OSCILLATION OF EQUATORIAL STRATOSPHERE - SOLAR ACTIVITY EFFECT N64-11722 03-21

ROTARY INERTIA & SHEAR FORCE EFFECT ON FREE BENDING VIBRATIONS OF ROTATING BARS
FTD-TT-62-1477/1&2 N64-12376 03-33

RIGID BODY VIBRATIONS OF ROCKET SLEDS AND SHAKE TEST METHOD OF OBTAINING INERTIA AND ELASTIC CONSTANTS
MDC-TDR-63-1 N64-12938 04-33

LATERAL MOTION OF AIRCRAFT WITH INERTIALLY SLENDER CONFIGURATION
ARC-R&M-3334 N64-13384 04-04

SOLUTION FOR INERTIAL ENERGY SPECTRUM OF ISOTROPIC TURBULENCE
TR-64-02F N64-30528 22-11

EXPLOITATION OF INERTIAL COUPLING IN PASSIVE GRAVITY-GRADIENT-STABILIZED SATELLITES
NASA-RP-339 N64-31216 22-30

GENERALIZATION OF PERRON-FROBENIUS THEOREM ON POSITIVE ELEMENT MATRICES TO PROVE INERTIA THEOREM
MRC-484 N64-31957 23-20

SHEAR & ROTARY INERTIA EFFECTS ON BEAM VIBRATION
DTMB-1822 N64-32294 23-33

INERTIAL COORDINATE SYSTEM
EQUATIONS OF MOTION FOR THREE BODY PROBLEM IN HAMILTONIAN FORM
NASA-CR-110 N64-31206 22-23

INERTIAL FORCE
RESONANCE EFFECT OF SPHERIC INERTIA ON VEHICLE ROTATING AROUND SPHERICAL PLANET
MH-TRANS-431 N64-11575 03-29

EFFECT OF LONGITUDINAL INERTIA FORCES ON NATURAL TRANSVERSE VIBRATIONAL FREQUENCIES OF BEAM WITH CONSTANT ACCELERATION BY FORCE AT ONE END
TDR-169/3560-30/TN-6 N64-14994 06-33

EFFECTS OF UNUSUAL GRAVITATIONAL AND INERTIAL

FORCE ENVIRONMENT ON VESTIBULAR AND VISUAL SYSTEMS
NASA-CR-56080 N64-20729 13-16

INERTIA PUMP FOR USE IN EXTRATERRESTRIAL ENVIRONMENT
ASD-TDR-63-374 N64-21571 15-17

GYROSCOPIC SYSTEMS UNPERTURBED BY INERTIA
N64-23388 16-15

PREDICTION OF INERTIAL, GRAVITATIONAL, AND AERODYNAMIC FORCE EFFECTS ON VEHICLE SPIN MOTION
FZE-4-059 N64-25019 17-23

EFFECTS OF LATERAL INERTIA ON PROPAGATION OF PLASTIC STRAIN IN CYLINDRICAL ROD
LAMS-3081 N64-26486 18-33

INERTIAL NAVIGATION
LOW-COST INERTIAL NAVIGATION SYSTEMS FOR AIRCRAFT
N64-10127 01-22

MICROELECTRONICS APPLICATIONS TO INERTIAL NAVIGATION SYSTEMS N64-18001 10-09

RECALIBRATION OF RANDOM GYRO DRIFT RATES AND INACCURACY OF INERTIAL NAVIGATION SYSTEMS
PUBL. 552-A-27 N64-18157 10-22

ORBITAL CALCULATION ERROR ANALYSIS - INERTIAL NAVIGATION COMPUTATION, FIRST ORDER ORBITAL ERROR ANALYSIS, AND SECOND ORDER GRAVITATIONAL EFFECTS
SMFD-2-1 N64-19861 12-29

OPTIMIZATION OF VELOCITY INERTIAL NAVIGATION SYSTEM
AD-600140 N64-21098 14-22

INERTIAL NAVIGATION - SYSTEM THEORY AND COMPONENTS
FTD-TT-63-474/1&2 N64-21931 15-22

ERROR ANALYSIS OF INERTIAL NAVIGATION SYSTEMS
N64-26396 18-22

ERRORS ARISING IN INERTIAL NAVIGATION SYSTEM
N64-30229 22-22

EVALUATION OF INERTIAL NAVIGATION SYSTEMS CLASSIFIED BY PLATFORM STABILIZATION OR ATTACHMENT
N64-31862 23-22

NOMOGRAMS FOR REDUCTION OF CIRCULAR ERROR OF POSITION DATA IN INERTIAL AND RADAR NAVIGATION SYSTEMS
NADC-AI-6361 N64-32325 23-22

INFECTION
INFECTION PROCESSES IN IRRADIATED ANIMALS - RADIATION EFFECT N64-11831 03-16

ROLE OF HYPOPHYSEAL-ADRENAL SYSTEM IN IMMUNOLOGICAL AND INFECTION PROCESSES
N64-17168 09-16

INFLUENCE OF CHEMOTHERAPEUTIC AGENTS ON PROTECTIVE FUNCTIONS OF ORGANISMS N64-17170 09-16

INFECTION PREVENTION OF WOUNDS AND BURNS IN MASS CASUALTY SITUATIONS N64-30754 22-16

INFLUENCE OF HIBERNATION ON COXSACKIE VIRUS INFECTIONS IN ALASKAN GROUND SQUIRREL
AAL-TDR-63-25 N64-31935 23-16

INFINITE SPAN WING
FLUTTER STUDY OF TWO-BAY FLAT PANELS AT SUPERSONIC SPEED TO DETERMINE INFLUENCE OF STRUCTURAL AND AERODYNAMIC COUPLING
SSD-TDR-64-164 N64-31983 23-33

INFLATABLE DEVICE
CF INFLATABLE STRUCTURE
SUBLIMING COMPOUND USED AS INFLATION SYSTEM FOR ECHO I SATELLITE
NASA-TN-D-2194 N64-22020 15-32

INFLATABLE SPACE ANTENNA SYSTEM
N64-23729 16-09

INFLATABLE GLIDER
S AIRCRAFT

INFLATABLE SPACECRAFT
RIGID INFLATABLE SOLAR ENERGY CONCENTRATOR
NASA-CR-53298 N64-17768 09-06

INFLATABLE STRUCTURE
SA BALLOON
CF AIRCRAFT
CF INFLATABLE DEVICE
ADVANCED CONCEPT INFLATABLE PARAGLIDER MODEL - MATERIAL AND STRUCTURAL TESTING AND EVALUATION
NASA-CR-55722 N64-15890 07-34

HEAT ACTIVATED RIGIDIZERS FOR INFLATABLE SOLAR ENERGY CONCENTRATOR
NASA-CR-55798 N64-16271 08-06

RIGID INFLATABLE SOLAR ENERGY CONCENTRATOR
NASA-CR-53316 N64-17767 09-06

RIGID INFLATABLE SOLAR ENERGY CONCENTRATOR
NASA-CR-53299 N64-17769 09-06

RIGID INFLATABLE SOLAR ENERGY CONCENTRATOR
NASA-CR-53300 N64-17770 09-06

MINIMIZING OPTICAL DISTORTIONS OF GEL COATS USED IN FABRICATION OF RIGIDIZED INFLATABLE SOLAR ENERGY CONCENTRATORS
NASA-CR-53356 N64-17823 09-06

METHODS FOR FABRICATING INFLATABLE REENTRY VEHICLE OF ROGALLO WING PARAGLIDER CONFIGURATION CAPABLE OF HYPERSONIC SPEEDS - FIRST PROJECT
SGC-335-1 N64-18065 10-17

METHODS OF EVALUATION OF INFLATABLE STRUCTURES FOR SPACE APPLICATIONS N64-19370 12-34

INFLATABLE MATERIAL OR EXPANDABLE STRUCTURES FOR SPACECRAFT DESIGN WITH EMPHASIS ON MANNED SPACE STATIONS N64-23714 16-31

INFLATED PARAGLIDER FOR ESCAPE FROM MANNED ORBITING SPACE STATION N64-23715 16-32

INFRARED AND ULTRAVIOLET RADIATION FOR RIGIDIZING INFLATABLE SPACE STRUCTURES N64-23717 16-19

EXPANDED ALUMINUM MESH FOR INFLATABLE RIGID REFLECTING DEVICE N64-23718 16-09

DESIGN AND FABRICATION OF INFLATABLE AND RIGIDIZABLE PASSIVE COMMUNICATION SATELLITES
N64-23728 16-32

INFLATABLE MATERIAL REQUIREMENTS FOR PASSIVE COMMUNICATION SATELLITE N64-23730 16-32

STRUCTURAL BEHAVIOR OF INFLATED FABRIC CYLINDERS UNDER VARIOUS LOADING CONDITIONS
N64-23732 16-33

MATERIALS, INFLATABLE STRUCTURES, AND RIGID STRUCTURES FOR RADOMES
USAADEA-TR-14-1 N64-24806 17-08

INFLATABLE WIND TUNNEL FLUTTER MODELS
N64-29258 21-33

ELEMENTARY MECHANICS OF FLEXIBLE MEMBRANES OF EXPANDABLE INFLATABLE STRUCTURES
SM-45750 N64-33733 24-33

INFLUENCE COEFFICIENT
INFLUENCE SURFACES OF ORTHOTROPIC PLATES
N64-26084 18-33

INFORMATION
CF DATA PROCESSING
DESCREENING OF IMAGES AS MEANS OF OPTIMAL UTILIZATION OF INFORMATION N64-15463 07-23

INFORMATION USED FOR HUMAN FACTORS PROBLEMS FREQUENTLY ENCOUNTERED IN DEVELOPMENT OF WEAPONS SYSTEM TRAINER
NAVTRADEVCEN-1103-1 N64-16887 08-10

MAINTENANCE OF HABITS OF INFORMATION TRANSMISSION UNDER LONG TERM ISOLATION CONDITIONS
N64-23759 16-16

FLIGHT INFORMATION SENSORS, DISPLAY SYSTEM, AND CONTROL OF X-15 AIRCRAFT FOR HIGH ALTITUDE FLYING
NASA-TN-D-2407 N64-26629 18-15

DIRECT VIEW STORAGE TUBE FOR INFORMATION DISPLAY IN TWO COLORS
AD-600385 N64-27540 19-09

INFORMATION ASSIMILATION FROM SYMBOLIC DISPLAYS - EFFECT OF AMOUNT OF INFORMATION PRESENTED AND EFFECT OF UPDATING
USAPRO-TR-N-139 N64-28452 20-08

ORGANIZATION MODELS FOR MILITARY COMMAND POST INFORMATION SYSTEMS
ESD-TDR-64-438 N64-28572 20-10

CERTITUDE JUDGEMENT AND ACCURACY OF INFORMATION ASSIMILATION FROM VISUAL DISPLAYS
USAPRO-TRN-145 N64-29947 21-14

INFORMATION MATRIX AND EQUIVALENT LINEAR MODEL FOR INVESTIGATING ACCURACY AND RESOLUTION OF RADAR SIGNALS
AD-601986 N64-32063 23-08

DATA CONTROL SYSTEM FOR SCIENTIFIC INFORMATION CENTER
NASA-TM-X-54765 N64-33203 24-10

INFORMATION RETRIEVAL
SEARCH AND DISPLAY UNIT FOR TIMING CODE - COMPUTER PROGRAM FOR DATA RETRIEVAL
PAD-73 N64-10224 01-15

AUTOMATIC SEARCH METHODS FOR DIGITAL COMPUTER IN ESTIMATE OF OPTIMUM MISSILE MODEL PARAMETERS - DATA RETRIEVAL
SAD-129 N64-10273 01-04

HUMAN ENGINEERING IN AUTOMATIC DATA PROCESSING FOR INFORMATION RETRIEVAL
JPRS-19100 N64-10814 02-16

FAULT-DETECTING SEARCH SYSTEM - DATA RETRIEVAL
N64-11835 03-20

INFORMATION RETRIEVAL SYSTEM FOR ELECTRICAL AND ELECTRONIC PROPERTIES OF MATERIALS
ASD-TDR-62-539, PT. II N64-12637 04-01

INFORMATION STORAGE, RETRIEVAL, AND DISSEMINATION FOR NASA PROGRAM - DATA PROCESSING
N64-16729 08-01

CONTRACT NUMBER INDEX OF SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS - INFORMATION RETRIEVAL
NASA-SP-7001 N64-17262 09-01

INFORMATION RETRIEVAL AND COMPUTER PROGRAMS AS APPLIED TO AERODYNAMICS
CPIA-PUBL-45 N64-17523 09-01

SEARCHING TECHNIQUE FOR AUTOMATIC STORAGE AND RETRIEVAL OF LANGUAGE INFORMATION
CACL-3 N64-18196 10-20

ABSTRACTS OF TECHNICAL & SCIENTIFIC INFORMATION - INFORMATION RETRIEVAL
OAR-016, VOL. 4 N64-18652 11-01

COORDINATE INDEXING SYSTEM FOR INFORMATION RETRIEVAL
RTD-TDR-63-4263 N64-20187 13-01

BIBLIOGRAPHY OF BIBLIOGRAPHIES IN INFORMATION RETRIEVAL SYSTEM
SB-64-7 N64-20533 13-01

AUTOMATED COMPUTER ORIENTED INFORMATION CLASSIFICATION SYSTEM
RADC-TDR-64-14 N64-21180 14-01

STORAGE AND RETRIEVAL OF INFRARED SPECTRAL DATA USING IBM 7090 COMPUTER
RTD-TDR-63-4265 N64-21779 15-01

PHOTOELECTRIC APPARATUS FOR STORING INFORMATION ON NICKEL AND COPPER TAPES
A-51035ARID N64-22495 15-09

INFORMATION RETRIEVAL AND DISPERSION FOR INDUSTRY
NASA-CR-56225 N64-23998 16-01

LINGUISTIC AND STATISTICAL STUDIES OF INFORMATION RETRIEVAL TECHNIQUES - DATA PROCESSING
RADC-TDR-64-190 N64-27442 19-09

ADVANCED NASA SCIENTIFIC AND TECHNICAL INFORMATION SYSTEM
NASA-CR-58480 N64-28270 20-08

MEMORY CIRCUITS FOR REDUCTION OF PRINTED INFORMATION BY DIGITAL COMPUTERS
N64-29740 21-20

COMPUTER PROGRAMMING TECHNIQUES - STATISTICAL ANALYSIS, INFORMATION RETRIEVAL, GRAPHIC INPUT AND DISPLAY, AND AUTOMATED DEBUGGING
RADC-TDR-64-233 N64-29932 21-18

ADAPTIVE SCREENING TECHNIQUES FOR DATA RETRIEVAL SYSTEMS
RADC-TDR-64-206 N64-29968 21-20

INFORMATION EXTRACTION AND VISUAL DISPLAY DURING COMPUTER OPERATION
FTD-TT-64-236/1&264 N64-30162 21-09

COMPUTER PROGRAMMING - CONTROL THEORY - DIGITAL STRUCTURE AND INFORMATION STORAGE AND RETRIEVAL
JPRS-26013 N64-30413 22-20

METHODS OF INFORMATION SYSTEM DESIGN
RADC-TDR-63-486 N64-30471 22-20

COMPUTER PROGRAMS FOR SYSTEMS DESIGN, FILE ORGANIZATION, DOCUMENT ACTIVITY SIMULATION, AND WORD ASSOCIATION FOR INFORMATION RETRIEVAL
RADC-TDR-63-486, APPEND. N64-30553 22-20

NOMOGRAPHIC ELECTRONIC COMPUTATION - APPLICATION TO MEMORY STORAGE AND DATA RETRIEVAL DEVICES
RADC-TDR-62-274, VOL. II N64-30940 22-09

STATISTICAL DECISION THEORY AND BAYESIAN EFFECTIVENESS OF INFORMATION SYSTEMS
ORD-64-112 N64-31967 23-20

INFORMATION STORAGE AND RETRIEVAL SYSTEM FOR PLASTICS DATA
I-B2104-1 N64-32064 23-19

ELECTRIC PROPERTIES OF PYROCERAM INSULATING MATERIAL
DS-130 N64-32202 23-25

DATA RETRIEVAL AND STORAGE OF MECHANICAL PROPERTY INFORMATION OF METALS AND REINFORCED PLASTICS
ASD-TDR-63-566, PT. I N64-32610 23-10

INFORMATION THEORY
CF COMMUNICATION THEORY
INFORMATION THEORY - IDEALIZED AND PRACTICAL PANDEMONIUM WITH APPLICATION TO DISTINCTION OF MORSE CODE
JPRS-17432 N64-10475 01-20

NEURONS & NERVE NETWORKS, INFORMATION CODING & STORAGE NETWORKS, AND ANALYZERS & PERCEPTORS - CYBERNETICS
JPRS-18372 N64-10759 02-16

INFORMATION THEORY & HUMAN BEHAVIOR - LINEAR RELATIONSHIP BETWEEN REACTION TIME AND UNCERTAINTY IN INFORMATION PROCESSING TASKS
AMRL-TDR-63-89 N64-11439 03-16

INFORMATION THEORY - TECHNIQUE FOR ANALYSIS OF SEMANTIC AMBIGUITIES
EUR-193.F N64-11651 03-01

GNOSIOLOGICAL NATURE OF INFORMATION MODELING

JPRS-22518 N64-12144 03-16

INFORMATION THEORY, CONTROL PROCESSES, AND COMPUTING SYSTEMS - CYBERNETICS
JPRS-22224 N64-12451 04-01

INFORMATION REMOVED FROM SOURCE DUE TO FLUCTUATION NOISES PRESENT IN RECEIVER WITH UNIFORM FREQUENCY SPECTRUM - CYBERNETICS N64-12457 04-08

COMPUTER PROGRAMMING - STRONG CONVERSE TO CODING THEOREM FOR CONTINUOUS MEMORYLESS CHANNELS N64-17166 09-20

SPACE COMMUNICATION - ELECTROMAGNETISM, INFORMATION THEORY, MAGNETOSPHERE, & PLASMA WAVES
NASA-CR-53170 N64-17194 09-08

MESSAGE CODING, SIGNAL FILTERING, AND INFORMATION THEORY FOR SPACE COMMUNICATIONS N64-17196 09-08

INFORMATION PROCESSING BY BIOLOGICAL SYSTEMS AND MACHINES - BIONICS
ASD-TDR-63-946 N64-18826 11-16

INFORMATION THEORY - LOGIC OF MECHANISM AND THEORY OF SIMPLIFICATION - BIONICS N64-18828 11-16

USE OF ANATOMICAL & PHYSIOLOGICAL EVIDENCE FOR CONSTRUCTING THEORIES OF INFORMATION PROCESSING OR SENSORY DISCRIMINATION - AUDITORY SYSTEM N64-18830 11-16

PROBABILITY STATE VARIABLE SYSTEMS - MONOTYPE SYSTEM THEORY & CONSIDERATIONS FROM AUTOMATA THEORY N64-19934 12-20

INFORMATION SYSTEM FOR IDENTIFICATION & RAID RECOGNITION IN AEROSPACE DEFENSES
ESD-TDR-64-189, VOL. 1 N64-21091 14-01

PROBABILISTIC INFORMATION PROCESSING IN COMMAND AND CONTROL SYSTEMS
ESD-TDR-62-345 N64-21092 14-20

POSSIBLE MECHANISM OF INFORMATION PROCESSES IN ORGANISMS - CYBERNETICS
JPRS-24816 N64-21125 14-16

EDUCATION - ACCEPTANCE OF ATTITUDE DISCREPANT INFORMATION - REVERSING COGNITIONS
TR-2 N64-21186 14-08

OPTIMIZATION OF ANTENNA SYSTEMS BY EXTENSION OF TEMPORAL INFORMATION THEORY TO SPACE-TIME DOMAIN
AD-600479 N64-21454 14-09

STATISTICAL OPTICS AND INFORMATION THEORY
AROD-3157-6 N64-21578 15-23

INFORMATION CAPACITY AND QUANTUM EFFECTS IN ELECTROMAGNETIC WAVE PROPAGATION CIRCUITS
ESD-TDR-64-23 N64-24811 17-08

COHERENCE FUNCTION AND INFORMATION THEORY FOR CONTROLLED ELECTROMAGNETIC RADIATIVE SOURCES IN ANTENNA OR OPTICAL SYSTEMS
SR-3 N64-24969 17-08

SPACE SCIENCE - SOLAR RADIATION, FLAME REACTION KINETICS, STRATOSPHERIC PLANETARY OBSERVATORY, INFORMATION SYSTEMS, AND SPACE BIOLOGY N64-25186 17-28

EUROPEAN COMMUNITY PROGRAM FOR INFORMATION AND DOCUMENTATION IN NUCLEAR SCIENCE FIELD
EUR-494.E N64-26474 18-01

POSITIVE VISUAL AFTER-IMAGE OF DISPLAY MATERIAL FOR RECALL INFORMATION
NAVTRADEVCEN-1303-3 N64-26953 18-14

PROBABILISTIC CIRCUIT THEORY - INFORMATION THEORY
RADC-TDR-64-180 N64-27456 19-09

INFORMATION THEORY - LENIN CONCEPT OF CAUSALITY
JPRS-26012 N64-27669 19-14

CYBERNETICS - CONTROL SYSTEMS, INFORMATION THEORY, AND GAME THEORY
JPRS-26341 N64-29733 21-20

INFORMATION THEORY APPLIED TO CODING SYSTEMS N64-29736 21-20

INTERWORD CORRELATION OF AMOUNT OF INFORMATION CONTAINED IN A COMMUNICATION N64-29737 21-20

INFORMATION ASSIMILATION FROM ALPHA-NUMERIC DISPLAYS - HUMAN PERCEPTION
AD-601973 N64-30646 22-14

INFORMATION THEORY AND HUMAN THINKING, INFORMATION PERCEPTION, & ELECTROENCEPHALOGRAM ANALYSIS USING PROBABILITY THEORY
JPRS-26839 N64-33010 24-14

INFRARED DETECTOR

BLACK BODY RADIATION DETECTOR FOR USE AS STANDARD IN EVALUATION OF INFRARED DETECTORS
NOLC-594 N64-13820 05-13

INFRARED DETECTORS N64-15454 07-23

HIGH SENSITIVITY, LONG RANGE DETECTOR IN INFRARED SPECTRUM N64-15479 07-23

SITOMETER - APPARATUS DESIGNED TO MEASURE ANGLE OF ELEVATION OF INFRARED SOURCE MOVING AT HIGH SPEED N64-18207 10-08

EVALUATION OF MERCURY TELLURIDE-CADMIUM TELLURIDE ALLOY SYSTEM AND OTHER MATERIALS FOR USE IN INFRARED DETECTION
AD-429997 N64-18655 11-25

VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE DEDUCED FROM INFRARED OBSERVATIONS
AFCRL-64-89 N64-20089 13-21

POLAROGRAPHIC MEMBRANE FOR DETECTING PENTABORANE GAS - INFRARED DETECTOR - ANALYSIS OF CRYOGENIC PROPELLANTS & PENTABORANE-HYDRAZINE FIRING RESIDUE
R-5462 N64-21061 14-26

PRODUCTION AND TESTING OF GOLD DOPED GERMANIUM INFRARED DETECTORS
AD-431917 N64-21753 15-17

LEAD SELENIDE INFRARED DETECTORS
QPR-5 N64-22715 15-17

INFRARED HOMING DEVICE FOR GUIDED MISSILES
JPRS-24947 N64-24597 17-22

INFRARED HOMING DEVICES N64-24604 17-22

LEAD SELENIDE INFRARED DETECTOR
REPT.-5527-Q4 N64-25095 17-01

INTEGRATED INTENSITIES OF FUNDAMENTAL AND FIRST OVERTONE BANDS OF NITRIC OXIDE BETWEEN 1400 AND 2400 DEGREES KELVIN - INFRARED DETECTOR
GDA-DBE-64-039 N64-27575 19-13

ENVIRONMENTAL TESTING OF PREPRODUCTION UNITS OF LEAD SELENIDE INFRARED DETECTOR
QPR-6 N64-28548 20-15

FABRICATION AND TESTING OF P-TYPE GOLD-DOPED GERMANIUM INFRARED DETECTORS HAVING BARIUM FLUORIDE WINDOWS
QPR-5 N64-28691 20-15

GLOBAL SILICON CARBIDE BLACK MATERIAL APPLIED TO UNIMMERSED TIROS RADIOMETER TYPE INFRARED DETECTORS
NASA-CR-60003 N64-28925 20-15

INFRARED BOND DEFECT DETECTION SYSTEM FOR LAMINATES OF DISSIMILAR MATERIALS
AMRA-TR-63-14 N64-32984 24-17

PREPRODUCTION ENGINEERING METHODS FOR GOLD-DOPED GERMANIUM INFRARED DETECTORS
QPR-6 N64-33339 24-17

INFRARED HORIZON SCANNER
RADIATION BANDS FROM CARBON DIOXIDE AND WATER - EARTH INFRARED HORIZON SCANNER ON SPACE VEHICLE AND SATELLITE ORIENTATION SYSTEM
N64-14999 06-12

INFRARED HORIZON SCANNER FOR ATTITUDE CONTROL
N64-15478 07-22

INFRARED HORIZON SCANNER FOR FLY-BY PLANETARY PROBES OF MARS & VENUS
NASA-CR-56511 N64-27910 20-15

INFRARED INSTRUMENT
NEAR-INFRARED MODULATION RADIOMETER USING PHOSPHORUS RECEIVER
FTD-TT-63-180/1&2 N64-12372 03-25

MARINER II INFRARED RADIOMETER EXPERIMENT
NASA-CR-53078 N64-15964 07-32

USE OF INFRARED INSTRUMENTS IN SPACE EXPLORATION
FTD-TT-63-444/1 N64-16422 08-23

DATA PROCESSING USING NIMBUS SATELLITE INFRARED RADIOMETER
NASA-CR-55901 N64-16705 08-21

HOT PRESSED ZINC SELENIDE USED AS LONG WAVELENGTH INFRARED DOMES
AL-TDR-64-9 N64-18020 10-19

INFRARED INSTRUMENT FOR QUANTITATIVE ANALYSIS OF CARBON DIOXIDE
NASA-CR-53359 N64-18119 10-15

DESIGN CRITERIA FOR RADIOMETRIC EQUIPMENT TO OBTAIN REPRODUCIBLE INFRARED MEASUREMENTS OF PYROTECHNIC FLARES
ATL-TDR-64-10 N64-18179 10-26

METEOROLOGY - INFRARED RADIOMETER FOR SURFACE AND CLOUD TEMPERATURE MEASUREMENTS
USAELRDL-TR-2373 N64-19406 12-15

SATELLITE MEASUREMENTS OF ATMOSPHERIC RADIATION DURING TWILIGHT HOURS - DEVELOPMENT OF INFRARED SATELLITE TRACKING RADIOMETER
AFCRL-64-302 N64-21240 14-32

STANDARDIZATION OF INFRARED OPTICAL MEASUREMENTS
NBS-8302 N64-21670 15-23

DESIGN CONSIDERATIONS FOR SHORT PATH, OPEN SAMPLE INFRARED HYGROMETER - ATMOSPHERIC ABSORPTION AND PHOTOCONDUCTORS N64-31848 23-15

INFRARED PHOTOGRAPHY
PLANETARY AND LUNAR RESEARCH IN THE PHOTOGRAPHIC INFRARED, VISIBLE, AND ULTRAVIOLET SPECTRA
SAR-5 N64-14359 06-05

FIELD FLATTENING LENS DESIGNED FOR PARTIALLY CORRECTED INFRARED SCHMIDT SYSTEM
WRE-TN-CPD-84 N64-28128 20-15

PLANETARY AND LUNAR PHOTOGRAPHY IN INFRARED, VISIBLE, AND ULTRAVIOLET
FR-7 N64-29577 21-05

SPECTROSCOPIC OBSERVATION EXTENSION OF SYMBIOTIC STARS BY INCREASING RESOLUTION IN WAVELENGTH RANGE AND EXTENDING SPECTROSCOPIC INVESTIGATION TO PHOTOGRAPHIC INFRARED
NASA-RP-268 N64-31569 23-05

INFRARED PHOTOGRAPHY AND SPECTROSCOPIC AND VISUAL OBSERVATIONS OF PLANETS AND MOON
SAR-6 N64-31592 23-29

INFRARED RADIATION
CF THERMAL RADIATION
TEMPERATURE MEASUREMENT OF MOLTEN URANIUM USING INFRARED RADIATION PYROMETER
NLCO-890 N64-10134 01-01

TIROS SATELLITE THERMAL FLUX INFRARED DATA
NASA-RP-80 N64-10620 01-23

INFRARED RADIATION AND THERMAL RADIATION RESULTS OF ROCKET MEASUREMENTS OF EARTH RADIATION
JPRS-17588 N64-10701 02-23

CALORIMETRIC DEVICE FOR DETERMINATION OF SOLAR ABSORPTION & INFRARED EMITTANCE RATIO OF MATERIALS AT ROOM TEMPERATURE N64-10945 02-13

OPTICAL PROPERTIES OF HIGH TEMPERATURE INFRARED TRANSMITTING GLASSES
TI-08-63-167 N64-12336 03-19

MEASURING INFRARED AND VISIBLE ELECTROMAGNETIC RADIATION EMANATING FROM MISSILE EXHAUST PLUMES
AFCRL-63-846 N64-13000 04-30

RADIATIVE CHARACTERISTICS OF SHIELDED INFRARED SOURCES
TRECOM-TR-63-45 N64-13723 05-13

TRANSMISSION OF INFRARED RADIATION THROUGH LIQUID WATER AND WATER VAPOR NEAR SATURATION LIMITS
N64-15003 07-23

INFRARED RADIATION IN SOLAR & TERRESTRIAL ATMOSPHERES - FIREFLY PROJECT
AFCRL-64-200 N64-15085 07-01

RADIOMETER AND LEAD SULFIDE DETECTOR FOR STUDYING INFRARED RADIATION FROM CHEMILUMINESCENT HIGH ALTITUDE CHEMICAL RELEASES DURING FIREFLY PROJECT
N64-15086 07-23

HIGH ALTITUDE OBSERVATIONS WITH CORONAGRAPH AND INFRARED SPECTROMETER OF RADIATION FROM SOLAR ATMOSPHERE N64-15087 07-28

ATMOSPHERIC ABSORPTION OF SOLAR INFRARED RADIATION RELATED TO ZENITH ANGLE, AS DETERMINED WITH INFRARED SPECTROMETER N64-15088 07-12

INFRARED ABSORPTION CHARACTER OF UPPER ATMOSPHERE
N64-15411 07-21

INFRARED AND MICROWAVE RADIOMETRY
N64-15457 07-23

INFRARED RADIATION MODULATING METHODS
N64-15468 07-23

DETECTION OF SATELLITES AND SPACE PROBES BY ULTRAVIOLET, VISIBLE, & INFRARED RADIATION
N64-15475 07-23

TIROS II INFRARED RADIATION MEASUREMENTS TAKEN IN ORBIT OVER NEW ZEALAND
NASA-TN-D-1910 N64-15970 07-12

INFRARED TRANSMISSION AND REFLECTION MEASUREMENTS OF SEMICONDUCTING MAGNESIUM STANNIDE SINGLE CRYSTALS OF VARYING IMPURITY CONCENTRATIONS
AFCRL-63-534 N64-16091 07-25

NATURE AND TRANSMISSION OF INFRARED RADIATION THROUGH ATMOSPHERIC COMPOSITION
SSD-TDR-63-238 N64-18250 10-23

TIROS III OBSERVATION OF INFRARED RADIATION PATTERNS IN 8-12 MICRON RANGE OVER CARIBBEAN SEA
AFCRL-64-236 N64-18896 11-21

ABSOLUTE INTENSITIES AND MEAN REFRACTIVE INDICES FROM INFRARED DISPERSION DATA
AFCRL-64-217 N64-18912 11-23

SYNOPTIC INTERPRETATION OF TIROS III MEASUREMENTS OF INFRARED RADIATION
NASA-CR-53851 N64-19604 12-21

INFRARED REFLECTION BY THIN FILMS OF DIELECTRICS DEPOSITED BY EVAPORATION COATING
AD-429240 N64-19874 12-23

COMPARISON OF INFRARED REFLECTION SPECTRA OF INORGANIC & ORGANIC COMPOUNDS WITH INFRARED SPECTRUM OF MARS N64-19879 12-29

MEASUREMENT OF EARTH ALBEDO, RADIATION BELT ENERGY DISTRIBUTIONS, ELECTRON PRECIPITATION, AND

INFRARED RADIATION - SPACE PHYSICS PROGRAM
TDR-169/3260-01/TN-2 N64-19998 12-12

PHYSICS & ELECTRONICS RESEARCH - SEMICONDUCTORS, INFRARED RADIATION, COMPUTER DESIGN, MASERS, LASERS, RADIO ASTRONOMY, & RADIO METEOROLOGY
ONRL-9-64 N64-20308 13-01

INFRARED RADIATION FROM STARS IN NIGHT SKY
AD-404717 N64-21158 14-05

INFRARED PHYSICS - ATMOSPHERIC CONSTITUENTS EFFECT ON INFRARED TECHNIQUES USED IN AEROSPACE SYSTEMS
REPT.-4-WGP-80-3-1 N64-21492 14-21

INFRARED ABSORPTION AND DISPERSION, ULTRASONICS, AND MOLECULAR STRUCTURE STUDIES
AFCRL-64-368 N64-22268 15-07

INFRARED RADIATION MEASUREMENT OF LAMINAR WAKE OF HYPERSONIC NYLON SPHERE
BSD-TDR-64-32 N64-22309 15-13

INFRARED STUDY OF EMISSION CHARACTERISTICS OF ORGANIC SOLIDS WITH STRONG ABSORPTION BANDS
NASA-CR-56284 N64-22456 15-07

INFRARED RADIATION PROPERTIES OF FLAME SPRAYED CERAMIC COATINGS, OXIDES OF ALUMINUM, CHROMIUM, AND ZIRCONIUM, AND SOLID BORON NITRIDE
AMRA-TR-64-03 N64-22710 15-25

INFRARED EXCITATION OF CALCIUM FLUORIDE CRYSTALS WITH DYSPROSIUM AND FLUORESCENT EMISSION
N64-23002 16-25

INFRARED EXCITATION OF CALCIUM FLUORIDE CRYSTALS CONTAINING URANIUM AND FLUORESCENT EMISSION
N64-23003 16-25

INFRARED RADIATION SPECTRUM OF COMETS
N64-23179 16-29

INFRARED AND ULTRAVIOLET RADIATION FOR RIGIDIZING INFLATABLE SPACE STRUCTURES N64-23717 16-19

INFRARED RADIATION FLUX DETERMINATION BY ARTIFICIAL EARTH SATELLITES N64-23862 16-21

MATERIALS FOR USE IN INFRARED OPTICAL SYSTEMS
RSIC-193 N64-23980 16-06

CALIBRATION OF ACTINOMETRIC INSTRUMENTS USING INFRARED RADIATION N64-24787 17-23

HURRICANE DETECTION BY INFRARED RADIATION MEASUREMENT OF TIROS WEATHER SATELLITE
N64-25013 17-32

ATMOSPHERIC ABSORPTION OF INFRARED RADIATION IN SOLAR SPECTRUM AND ATMOSPHERIC COMPOSITION
CARDE-TR-475/64 N64-25481 17-29

HIGH TEMPERATURE INFRARED TRANSMITTING GLASSES
TI-08-64-78 N64-25829 17-19

SMOOTHED VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE FROM OBSERVATIONS OF INFRARED ABSORPTION AND EMISSION
AFCRL-64-88 N64-25857 18-05

LONG WAVELENGTH INFRARED DOMES - RAW & HOT-PRESSED ZINC SELENIDE DEVELOPMENT
IER-1 N64-26311 18-18

MEASUREMENT TECHNIQUES AND SOURCES OF INFRARED RADIATION AND PRACTICAL APPLICATIONS IN INDUSTRY
M-004/64 N64-27510 19-15

STELLAR INFRARED RELATIVE MAGNITUDES
REPT.-5 N64-27614 19-05

ERRORS IN USE OF AIRBORNE INFRARED RADIATION THERMOMETER FOR OCEAN SURFACE TEMPERATURE MEASUREMENT
AD-601473 N64-27622 19-15

MATERIALS, FIBER PRODUCTION, AND PROPERTIES OF INFRARED FIBER OPTICS COMPONENTS
AL-TDR-64-98 N64-27681 19-23

SCATTERING OF INFRARED RADIATION BY AEROSOL CLOUD OF FINE PARTICLES
ARL-64-109 N64-28557 20-23

PHOTOCONDUCTIVITY OF CADMIUM SULFIDE EXCITED BY QUENCHING INFRARED RADIATION
RADC-TDR-64-3479 N64-28561 20-25

INFRARED EMISSION FROM HYPERSONIC AIR FLOWS AND REENTRY FLOW FIELD ANALYSIS
CAL-QM-1626-A-15 N64-29649 21-11

TECHNIQUES OF OBTAINING POPULATION INVERSIONS IN MOLECULAR VIBRATIONAL ENERGY LEVELS TO BE USED TO GENERATE COHERENT INFRARED RADIATION
VARIAN-314-15 N64-30159 21-25

INFRARED BACKGROUND MEASUREMENTS MADE BY AUTOMATIC PROGRAMMED RADIOMETER SYSTEM DURING BALLOON FLIGHT OF 29 OCTOBER 1962
AD-421461 N64-31154 22-21

INFRARED RADIOMETER MEASUREMENTS OF FIREFLY PROJECT ARTIFICIAL CLOUDS N64-31386 23-12

ATMOSPHERIC ATTENUATION OF INFRARED RADIATION OVER SHORT DISTANCES - ABSORPTION AND SCATTERING
SSD-TDR-64-167 N64-32566 23-12

INDUCED INFRARED ABSORPTION OF DILUTE SOLUTIONS OF HYDROGEN AND DEUTERIUM IN LIQUID ARGON
JPL-TR-32-586 N64-33763 24-23

INFRARED SCANNER
NEAR INFRARED POLARIMETER OBSERVATIONS OF PLANETS BY RADIO TELESCOPE
AFCRL-64-693 N64-32477 23-05

INFRARED SPECTROMETER
MOIRE FRINGE MEASURING SYSTEM FOR FAR INFRARED INTERFEROMETRIC SPECTROMETER
AFCRL-63-735 N64-12048 03-15

INFRARED ANALYSIS OF GASES PRODUCED DURING MOLTEN SALT ELECTROLYSIS OF METALS
BM-RI-6476 N64-23242 16-23

EVALUATION, TEST, AND CALIBRATION OF INFRARED INTERFERENCE SPECTROMETER
NASA-CR-61 N64-23344 16-15

STRUCTURE OF DIALLYL PHTHALATE POLYMERS BY INFRARED SPECTROMETRY N64-24130 16-19

DATA ACQUISITION FROM INFRARED SPECTROMETER SYSTEM FOR QUALITATIVE ANALYSIS N64-27132 19-07

INFRARED SPECTRUM OF MARS USING DIFFRACTION AND PRISM TYPE SPECTROMETERS
NASA-TT-F-9010 N64-27135 19-05

HIGH RESOLUTION INFRARED SPECTROMETER FOR STUDYING FERMI RESONANCE AND OTHER PHENOMENA IN ISOTOPIC NITROUS OXIDES
AFCRL-64-324 N64-31677 23-15

OPTICAL CONSTANTS OF MAGNESIUM OXIDE AND CALCIUM TUNGSTATE USING FAR INFRARED SPECTROMETER
NASA-CR-59302 N64-33694 24-25

INFRARED SPECTROPHOTOMETER
ANALYSIS OF URETHANE COMPOUNDS BY INFRARED SPECTROPHOTOMETRY
SCR-322 N64-14431 06-07

INFRARED SPECTROPHOTOMETRY FOR MICRODETERMINATION OF SERUM TRIGLYCERIDES AND CHOLESTERYL ESTERS
N64-22862 16-16

ULTRAVIOLET, VISIBLE, & INFRARED SPECTROPHOTOMETRY FOR ANALYSIS OF MANNED SPACECRAFT
N64-24621 17-15

EFFECT OF SOLVENTS ON SILICON HYDROGEN STRETCHING VIBRATION STUDIED WITH INFRARED SPECTROPHOTOMETER
GNE/PHYS/64-17 N64-33817 24-07

ANALYSIS OF TETRAFLUOROHYDRAZINE BY GAS CHROMATOGRAPHY AND INFRARED SPECTROPHOTOMETRY
REPT.-144-QR N64-33971 24-26

INFRARED SPECTROSCOPY
MINERALOGICAL SATELLITE - MAPPING OF MINERALOGY & TEMPERATURE OF LUNAR SURFACE BY REMOTE INFRARED SPECTRAL MEASUREMENTS
IAC PAPER-94 N64-12351 03-15

IMPURITIES IN SILICON & GERMANIUM DISCOVERED BY ELECTRON SPIN RESONANCE AND INFRARED ABSORPTION
HP-9 N64-13036 04-18

NEAR-ULTRAVIOLET, VISIBLE AND INFRARED SPECTROSCOPY OF SODIUM AND POTASSIUM THIOCYANATE
N64-14912 06-07

RAMAN AND INFRARED SPECTROSCOPY DETERMINATION OF PROTACTINIUM SPECIES IN PROTACTINIUM-HYDROFLUORIC ACID SYSTEM
N64-15657 07-07

INFRARED SPECTROSCOPIC STUDY OF TRIBUTYL PHOSPHATE NITRIC ACID WATER SOLVENT EXTRACTION SYSTEM
IS-728 N64-15671 07-07

QUANTITATIVE INFRARED METHOD FOR ANALYSIS OF PIGMENTED PHTHALIC ALKYD-NITROCELLULOSE LACQUERS WITHOUT SEPARATION OF NITROCELLULOSE
CCL-154 N64-17460 09-07

MASS SPECTROMETRY, INFRARED AND ULTRAVIOLET SPECTROSCOPY, MICROANALYSIS, AND POLYMER CHEMISTRY
ASD-TDR-63-620 N64-18259 10-07

MATERIALS SCIENCE - THERMAL AND MECHANICAL PROPERTIES, MORPHOLOGY, & INFRARED SPECTROSCOPY
NASA-CR-56129 N64-20709 13-19

SOLAR RADIATION MONITORING AND INFRARED SPECTROSCOPIC STUDY
N64-21817 15-01

ATTENUATED TOTAL REFLECTANCE TECHNIQUE FOR OBTAINING INFRARED SPECTRA OF MATERIALS WITHOUT MODIFYING SAMPLE
N64-21819 15-07

IDENTIFICATION OF CRYSTALLINE MINERALS IN ATMOSPHERIC DUST BY X-RAY DIFFRACTION AND INFRARED ABSORPTION
ERDA-141 N64-24336 17-23

INSTRUMENT FOR STUDYING SPECTRAL REFLECTANCE OF DISPERSING MATERIALS IN LONG WAVE INFRARED REGION
N64-24550 17-15

INFRARED SPECTROSCOPY AND USE IN CHEMICAL ANALYSIS
JPRS-25356 N64-27129 19-07

APPLICATION OF INFRARED ABSORPTION SPECTROSCOPY TO CHEMICAL INDUSTRY
N64-27130 19-07

INFRARED ABSORPTION SPECTROSCOPY FOR QUANTITATIVE AND QUALITATIVE ANALYSIS
N64-27131 19-07

SPECTROSCOPIC OBSERVATION EXTENSION OF SYMBIOTIC STARS BY INCREASING RESOLUTION IN WAVELENGTH RANGE AND EXTENDING SPECTROSCOPIC INVESTIGATION TO PHOTOGRAPHIC INFRARED
NASA-RP-268 N64-31569 23-05

SPECTRAL MOLECULAR ANALYSIS OF CIS-BUTADIENE RUBBER BY INFRARED SPECTROSCOPY
FTD-TT-64-459/162 N64-31799 23-19

QUANTITATIVE DETERMINATION OF DOUBLE BONDS IN UNSATURATED SILICO-ORGANIC COMPOUNDS BY INFRARED ABSORPTION SPECTROSCOPY
FTD-TT-64-458 N64-31978 23-07

INFRARED GAS SPECTROSCOPY OF ALKYL HALIDES
AROD-3895-3 N64-32025 23-23

SPECTRAL EMITTANCE MEASUREMENTS OF COMMERCIAL, TRANSPARENT, AND OPAQUE SOLIDS FOR INFRARED APPLICATIONS
NOLC-TM-43-14 N64-32373 23-23

MOLECULAR STRUCTURE FROM BOND STRETCHING FREQUENCY IN POLYETHYLENE COMPOUNDS BY INFRARED SPECTROSCOPY
AFCRL-64-744 N64-32666 23-07

INFRARED SPECTRAL DISCRIMINATION
REPT.-5698-1-T N64-32673 23-23

INFRARED SPECTRUM
FREE RADICALS IN RAT LIVER LIPIDS & ELECTRON PARAMAGNETIC RESONANCE SIGNALS FROM LIGHT IN CRYSTALLINE CHLOROPHYLL & ITS INFRARED SPECTRA
JPRS-18213 N64-10572 01-07

LONG WAVE INFRARED SPECTRUM OF QUARTZ MERCURY LAMP
TIL/T-5375 N64-10859 02-23

VISIBLE AND INFRARED ABSORPTION SPECTRA OF SINGLE CRYSTAL AND POLYCRYSTALLINE URANIUM DIOXIDE
HW-79033 N64-11209 02-23

DIRECT INFRARED ABSORPTION DETERMINATION OF URANYL FLUORIDE IN URANIUM FLUORIDE
MCW-1468 N64-11289 02-07

INFRARED SPECTRUM AND STRUCTURE OF SODIUM NITROMETHANE
AFCRL-63-757 N64-12273 03-23

INFRARED SPECTRA OF METHOXYACETONITRILE AND METHYL-CHLOROMETHYL-ETHER IN SOLUTION AND IN VAPOR AND LIQUID STATES
AFCRL-63-758 N64-12293 03-19

INFRARED SPECTRUM OF LITHIUM FLUORIDE, ALUMINUM FLUORIDE, AND LITHIUM METABORATE BY MATRIX ISOLATION METHOD
IITRI-C6013-2 N64-13634 05-23

STELLAR PHOTOMETER AND SPECTROMETER FOR INFRARED REGION
N64-13688 05-15

RAMAN SPECTRA & INFRARED ABSORPTION SPECTRUM OF ETHYLENIMINE AND ITS ALKYL SUBSTITUTES
RSIC-5 N64-13811 05-07

CHANGES IN INFRARED SPECTRA OF POLYMERS AFTER GAMMA RAY IRRADIATION
N64-14082 05-23

SOLVENT-INDUCED INFRARED FREQUENCY SHIFTS
NRL-5906 N64-14647 06-07

HIGH SENSITIVITY, LONG RANGE DETECTOR IN INFRARED SPECTRUM
N64-15479 07-23

FAR INFRARED SPECTRA OF CRYSTALS AND SOLIDS AT CRYOGENIC AND ROOM TEMPERATURES
AFCRL-64-22 N64-16822 08-23

DEPENDENCE OF INFRARED ABSORPTANCE ON PARTIAL PRESSURE FOR CARBON DIOXIDE & WATER - COMBUSTION GAS ANALYSIS FOR PROPULSION RESEARCH
NASA-CR-54002 N64-17598 09-26

INFRARED ABSORPTION SPECTRUM ANALYSIS OF LIQUID AND SOLID METHANE AND HEAVY METHANE
NASA-CR-53569 N64-18446 10-23

ASTROPHYSICS - SPECTROSCOPY, INFRARED EMISSION, AND ABSORPTION SPECTRUM OF STARS, PLANETS, AND COMETS
N64-18483 10-23

INFRARED SPECTRAL PROPERTIES OF HIGH ALTITUDE CLOUDS
AD-428979 N64-18781 11-21

INFRARED ABSORPTION SPECTRUM ANALYSIS OF INORGANIC MOLECULES USING MATRIX ISOLATION TECHNIQUE
N64-18803 11-07

INFRARED SPECTRUM ANALYSIS OF MOLECULES VAPORIZED FROM OXIDES OF ZIRCONIUM, HAFNIUM, AND THORIUM BY MATRIX ISOLATION
N64-18804 11-07

INFRARED SPECTRUM ANALYSIS OF LITHIUM FLUORIDE, ALUMINUM FLUORIDE, AND LITHIUM BORATE BY MATRIX ISOLATION
N64-18805 11-07

STUDIES OF FAR INFRARED REGION OF SPECTRUM
AFCRL-64-73 N64-18936 11-23

INFRARED ABSORPTION SPECTRUM OF CERIUM /VALENCE 3/

IN SILICA AND BORAX GLASS N64-20928 14-23

INFRARED ABSORPTION BANDS FOR NITROGEN-HYDROGEN AND PHOSPHORUS-HYDROGEN BONDS
AD-434269 N64-21321 14-07

HORIZONTAL ATMOSPHERIC TRANSMISSION MEASUREMENTS IN INFRARED SPECTRUM
DRCL-420 N64-21777 15-21

STORAGE AND RETRIEVAL OF INFRARED SPECTRAL DATA USING IBM 7090 COMPUTER
RTD-TDR-63-4265 N64-21779 15-01

INFRARED STUDY OF EMISSION CHARACTERISTICS OF ORGANIC SOLIDS WITH STRONG ABSORPTION BANDS
NASA-CR-56284 N64-22456 15-07

INFRARED SPECTRUM OF MARS - THEORY OF PRESENCE OF EXTRATERRESTRIAL LIFE
NASA-CR-50208 N64-22764 16-16

INSTRUMENT FOR MEASURING SPECTRAL EMITTANCE OF SOLIDS IN INFRARED REGION AT LOW TEMPERATURES
NOLC-589 N64-22912 16-23

STRATOSPHERIC AND TROPOSPHERIC THERMAL RADIATION FIELDS IN INFRARED REGION OF SPECTRUM
NASA-TT-F-8815 N64-22933 16-12

INFRARED TRANSMISSION SPECTRA OF RUBIDIUM BORATES OF VARYING COMPOSITION
USNRDL-TR-705 N64-22952 16-19

INFRARED ABSORPTION SPECTRUM OF WATER IN LIQUID STATE
NASA-TT-F-211 N64-24834 17-07

INFRARED SPECTRA OF POLYMERS, RESINS, AND RELATED MATERIALS
ASD-TDR-63-712 N64-26320 18-07

FLAT FIELD, WIDE ANGLE, REFLECTING TELESCOPE FOR USE IN 8-14 MICRON WAVELENGTH RANGE OF INFRARED SPECTRUM
WRE-TN-CPD-79 N64-28127 20-15

INFRARED SPECTRA OF ORGANIC FLUORINE COMPOUNDS - PERFLUOROCYCLOPROPANE AND CIS AND TRANS FORMS OF PERFLUOROBUTENE-2
SSD-TDR-64-144 N64-28538 20-07

FAR INFRARED SPECTRA OF COPPER HALIDES, CUPRITE, RUBY, & ALKALI HALIDES OVER WIDE TEMPERATURE RANGE
AFCRL-64-489 N64-28552 20-25

FAR INFRARED SPECTRUM OF HYDROGEN FLUORIDE
AFCRL-63-863 N64-28917 20-23

PRESSURE EFFECTS ON INFRARED SPECTRA OF HYDROGEN BONDED SOLIDS N64-29344 21-25

PRINCIPAL INFRARED ABSORPTION BANDS OF DERIVATIVES OF DINITROBENZENE AND TRINITROBENZENE
NOLTR-64-62 N64-29621 21-07

PREPARATION, PURIFICATION, AND INFRARED SPECTRA OF DIFLUOROACETYLENE
TDR-269/4240-20/-6 N64-29800 21-07

CHARACTERISTIC ABSORPTION BAND FEATURES IN INFRARED SPECTRA OF TRANSITION METAL ALKOXIDES
ML-TDR-64-124 N64-29901 21-07

EMISSION SPECTRUM OF VIBRATION-ROTATION BANDS OF NITRIC OXIDE IN NEAR INFRARED REGION
AFCRL-64-583 N64-30011 21-07

INFRARED SPECTRA OF PLASTICS AND ELASTOMERS AFTER NUCLEAR IRRADIATION N64-30461 22-19

FAR INFRARED SPECTRA OF HALOGENATED TOLUENE, BUTADIENE, AND GLYOXAL MOLECULES
ML-TDR-64-158, PT. 1 N64-30931 22-07

PRESSURE INDUCED SHIFTS OF ABSORPTION LINES IN INFRARED SPECTRUM
AFCRL-64-629 N64-32150 23-07

INFRARED EMISSION SPECTRUM OF ATMOSPHERE AND EARTH
AFCRL-64-567 N64-32205 23-12

STARK EFFECTS IN NEAR INFRARED SPECTRA OF POLYATOMIC MOLECULES, HINDERED ROTATION IN HYDROGEN PEROXIDE, AND INFRARED ABSORPTION OF MATRIX ISOLATED AMMONIA
AFCRL-64-668 N64-32581 23-07

PHOTOELECTRIC RECORDING OF INFRARED SPECTRUM OF NIGHT SKY N64-32711 24-12

INFRARED ABSORPTION SPECTRA & PROTON NUCLEAR MAGNETIC RESONANCE SPECTRA OF METALLIC ACETATE COMPLEXES
NASA-CR-59032 N64-33167 24-07

SPECTROPHOTOMETRY OF ATMOSPHERIC PHENOMENA - LOW BRIGHTNESS PULSATING AURORAS, RESONANCE EMISSION DURING TWILIGHT, AND INFRARED ATMOSPHERIC SPECTRUM
UAG-R153 N64-33437 24-12

SOUNDING ROCKET DATA ON INFRARED SPECTRAL RADIANCE OF NIGHT HORIZON AND SKY
NAVWEPS-8552 N64-33724 24-12

ELECTRICAL AND INFRARED PROPERTIES OF GLASS IN BISMUTH OXIDE-TELLURIUM OXIDE SYSTEM
NASA-TM-X-53110 N64-33869 24-25

METAL SEALED GAS CELL FOR DETERMINING INFRARED SPECTRA OF REACTIVE GASES
TR-3 N64-33949 24-10

INFRARED SPECTRAL STUDIES OF GERMANIUM COMPLEXES
TR-1 N64-34001 24-07

INFRASONIC FREQUENCY
CALIBRATION OF INFRASONIC HYDROPHONES BY NULL METHOD
JPRS-18422 N64-10765 02-23

GEOMETRICAL ASPECTS OF DIFFUSION PROPAGATION WHICH GOVERN ACOUSTIC BEHAVIOR OF GAS-FILLED CHAMBERS AT INFRASONIC FREQUENCIES
NOLTR-63-139 N64-16882 08-20

PULSATING AURORAS AS SOURCE OF INFRASONIC WAVES ASSOCIATED WITH GEOMAGNETIC ACTIVITY
NASA-TM-X-54620 N64-17690 09-21

INFRASONIC WAVES FROM AURORAL ZONE
NASA-TN-D-2138 N64-23372 16-23

PULSATING AURORAE AS SOURCE OF INFRASONIC WAVES ASSOCIATED WITH GEOMAGNETIC ACTIVITY
NASA-RP-216 N64-24085 16-12

INFRASONIC WAVE PROPAGATION IN IONOSPHERE - EXTENSION OF METHOD OF NORMAL MODES TO WAVE PROPAGATION IN ALMOST-STRATIFIED MEDIUM
AFCRL-64-526 N64-28533 20-08

INFRASONIC PRESSURE MICROPHONE WITH SOLION TRANSDUCER FOR STUDYING ATMOSPHERIC ACOUSTICS
N64-32258 23-15

BELLOWSPHONE CALIBRATOR FOR DETERMINING FREQUENCY AND PHASE RESPONSE OF INFRASONIC PRESSURE MICROPHONES N64-32260 23-15

INGESTION
INGESTION OF GAS OR STONES INTO THRUST REVERSER OF JET TRANSPORT POWERPLANT
AGARD-415 N64-11908 03-27

ASSIMILATION OF LARGE SUDDENLY INGESTED QUANTITIES OF WATER BY PATIENTS
NASA-TT-F-9114 N64-33396 24-16

INHALATION
CF RESPIRATION
PROCESSING DATA ON DISTRIBUTION & EXCRETION OF INHALED FISSION PRODUCTS WITH AUTOMATIC READOUT COUNTING SYSTEM
LF-13 N64-14750 06-16

EFFECT OF INHALED RADON ON SURVIVAL, BODY WEIGHT, AND HEMOGRAM OF MOUSE AFTER SEVERAL EXPOSURES

UR-624 N64-18409 10-16

INHALATION HAZARDS OF EXPOSURE TO ATMOSPHERIC CONTAMINANTS N64-24615 17-16

OXYGEN INHALATION EFFECTS ON COLD RESPONSE THRESHOLDS AND ON GAS TRANSPORT AND ACID-BASE BALANCE OF BLOOD
AD-600077 N64-26550 18-16

INHIBITION
FLAME INHIBITION BY DISPERSED SOLID PARTICLES AND ADDITIVES
RTD-TDR-63-4011 N64-11462 03-26

MATHEMATICAL MODEL FOR NERVOUS DEFENSES AGAINST STIMULATION AND INHIBITION N64-12515 04-16

DIRECT-CURRENT EFFECT ON ULTRABOUNDARY INHIBITION IN DOGS N64-12725 04-16

INHIBITING ACTION OF DEOXYRIBONUCLEASE ON ADENOVIRUSES
JPRS-22050 N64-12883 04-16

INHIBITING CAPACITY OF DEOXYRIBONUCLEASE ON ADENOVIRUSES IN TISSUE CULTURE N64-12884 04-16

THERAPEUTIC VALUE OF DEOXYRIBONUCLEASE IN TREATMENT OF PATIENTS WITH ADENOVIRUS CONJUNCTIVITIS N64-12885 04-16

CONDITIONED REFLEX TO MAGNETISM IN FISH
NASA-TT-F-190 N64-12962 04-16

KINETICS OF HYDROGEN BROMIDE AND METHYL BROMIDE FLAME INHIBITION
SR-6-3 N64-25183 17-07

INHIBITED DISSOLUTION OF SURFACES OF SINGLE CRYSTALS OF LITHIUM FLUORIDE
TR-2 N64-26021 18-07

INHIBITION OF THIOL-ACTIVATED AMINOPEPTIDASE ENZYME BY BACTERIA-PUROMYCIN
NASA-RP-252 N64-26711 18-16

INHIBITOR
SENSITIZATION OF TUMOR CELLS TO ACTION OF IONIZING RADIATION BY RADICAL-REACTION INHIBITORS N64-12896 04-16

REACTION OF IRRADIATED PROTEIN RADICALS WITH RADICAL-REACTION INHIBITORS N64-12897 04-16

INHIBITED JET CHARGE HYPERVELOCITY ACCELERATOR N64-13519 05-23

COMPILER FOR THREE-ADDRESS MACHINE - OPTIMAL RATE CONTROL FOR LINEAR SYSTEM - INHIBITOR CIRCUIT DESIGN
JPRS-24055 N64-18964 11-20

EFFECT OF INHIBITORS ON CARBON-REDUCTION CYCLE IN CHLORELLA N64-19470 12-16

CORROSION INHIBITOR - SILVER-COPPER-LITHIUM BRAZED STEEL SANDWICH PANELS
FGT-3066 N64-20043 13-18

INHIBITORS TO REDUCE OR PREVENT CORROSION OF METAL BY HYDROCHLORIC ACID N64-24275 17-07

TREATMENT OF HOT-SPRING WATER WITH SOLID INHIBITORS TO REDUCE SCALING AND CORROSION N64-24278 17-07

HYDROLYTIC STABILITY OF AMINE SALT ASHLESS RUST INHIBITORS IN TWO-PHASE WATER-BENZENE SYSTEMS WITH CARBON DIOXIDE PRESENT
NRL-6081 N64-32531 23-07

INHOMOGENEITY
DYADIC GREEN FUNCTION FOR RADIALLY INHOMOGENEOUS SPHERICAL DIELECTRIC MEDIUM
USEC 82-212 N64-11460 03-20

ELECTRON TEMPERATURE EFFECT IN PLASMA HEATED BY STRONG INHOMOGENEOUS ELECTRIC FIELD
AFCRL-63-377 N64-12197 03-24

ATMOSPHERIC REFRACTIVE INDEX INHOMOGENITIES AS FUNCTION OF SIGHTLINE ELEVATION
OID-35 N64-13090 04-23

MUTUAL COHERENCE OF PLANE QUASI-MONOCHROMATIC SOURCE IN INHOMOGENEOUS MEDIUM N64-13430 05-23

SOLUTION FOR PROPAGATION OF ELECTROMAGNETIC WAVES IN INHOMOGENEOUS THIN FILM SHEATH N64-15256 07-24

EXTREMELY LOW FREQUENCY MAGNETIC FIELD WAVES IN INHOMOGENOUS HYDROMAGNETIC MEDIUM N64-19700 12-12

TECHNIQUE OF NUMERICAL INVERSION OF LAPLACE TRANSFORMS AS APPLIED TO HEAT EQUATION FOR INHOMOGENEOUS MEDIUM
RM-3974-NIH N64-19973 12-20

RATES OF CHEMICAL REACTIONS AND DISSIPATION OF CHEMICAL SPECIES IN TURBULENT FLOW FIELDS WITH LARGE INHOMOGENEITIES
BSD-TDR-64-59 N64-20864 14-07

CORRESPONDENCE PRINCIPLE FOR LINEARIZED THEORY OF WAVE PROPAGATION THROUGH ANISOTROPIC AND INHOMOGENEOUS VISCOELASTIC SOLIDS
TR-25 N64-21183 14-23

FIELD INHOMOGENEITIES IN PHOTOCONDUCTOR
AD-600830 N64-26620 18-25

SCATTERING FROM PLANE INFINITE INHOMOGENEOUS LAYERS UNDER NORMAL OBLIQUE OR INCIDENCE
TN-3 N64-29684 21-23

APPROXIMATION FOR SHEAR AND BOUSSINESQ TURBULENCE YIELDING STATISTICAL EQUATION FOR INHOMOGENEOUS FLOW
AD-601159 N64-32194 23-11

CHARGED PARTICLE MOTION IN AN INHOMOGENEOUS MAGNETIC FIELD
GSP/PHYS/64-15 N64-33878 24-24

INHOUR EQUATION
IBM 7090 CODE FOR COMPUTATION OF ROOTS OF INHOUR EQUATION
IDO-16904 N64-13135 04-23

INITIAL VALUE PROBLEM
INITIAL FUNCTIONS METHOD TO DETERMINE SYMMETRICAL, SKEW-SYMMETRICAL, & NONSYMMETRICAL OSCILLATIONS OF RECTANGULAR PLATES
FTD-TT-63-740/1&2 N64-12848 04-33

SOLUTION OF INITIAL VALUE PROBLEM INVOLVING TIME-DEPENDENT NEUTRON TRANSPORT EQUATION IN FINITE SLAB
TID-18884 N64-13951 05-23

INVARIANT IMBEDDING APPROACH TO STUDY OF PROCESSES - CONVERSION OF BOUNDARY VALUE PROBLEMS TO INITIAL VALUE PROBLEMS
RM-3806-PR N64-21723 15-09

SOLUTION TO INITIAL VALUE PROBLEM FOR LINEARIZED NAVIER-STOKES EQUATIONS
REPT.-562/07/56 N64-22552 15-11

HYBRID METHODS FOR INTEGRATION OF INITIAL VALUE PROBLEMS IN ORDINARY DIFFERENTIAL EQUATIONS
REPT.-164 N64-28512 20-20

EXPANSION THEORY FOR SOLVING LINEAR INITIAL VALUE PROBLEMS IN PARTIAL DIFFERENTIAL EQUATIONS
NASA-CR-59322 N64-33685 24-20

INITIATION
SA STARTING
CF INDUCTION
INADEQUACY OF THERMAL INITIATION THEORY IN INTERPRETING RESULTS OF FISSION FRAGMENT IRRADIATION OF EXPLOSIVES AT ELEVATED TEMPERATURES
PA-TR-3157 N64-25349 17-26

FEASIBILITY OF INITIATING ROCKET MOTOR THROUGH BARRIER USING HIGH EXPLOSIVES WITHOUT PERFORATING BARRIER
TR-3085 N64-31264 22-27

FRESH, AGED, GROWN-IN, AND HIGH TEMPERATURE DISLOCATIONS IN INITIATION OF PLASTIC FLOW IN MAGNESIUM OXIDE SINGLE CRYSTALS
TR-24 N64-32061 23-25

SHOCK STIMULUS EFFECT ON GROWTH & STABILITY IN INITIATION MECHANISMS OF LOW VELOCITY DETONATIONS IN LIQUID EXPLOSIVES
AD-443796 N64-33978 24-26

INJECTION
CF BLOWING
LOWERING INJECTION ENERGY IN HIGH ENERGY ACCELERATORS WITH QUADRUPOLE LENSES
JPRS-18723 N64-10578 01-23

INTERACTION EFFECTS FROM INJECTION OF LIQUID OR GASEOUS NITROGEN PERPENDICULAR TO SUPERSONIC STREAM - ROCKET-THRUST VECTOR CONTROL
NASA-CR-53063 N64-15788 07-11

UNSTEADY BURNING OF LIQUID FUEL DROPLETS AND PERIODIC SOLUTIONS OF FUEL INJECTION PROCESSES
NASA-CR-55516 N64-15904 07-26

LAW OF WALL FLOW FOR TURBULENT BOUNDARY LAYERS WITH SUCTION OR INJECTION
COA-AERO-166 N64-19323 12-11

MODIFIED VELOCITY DEFECT LAW FOR TURBULENT BOUNDARY LAYER WITH INJECTION
COA-AERO-170 N64-19324 12-11

DISTRIBUTION OF DROPS OF FUEL ATOMIZED THROUGH LOW PRESSURE INJECTORS
FTD-TT-63-29/1&2&3&4 N64-19742 12-26

SECONDARY INJECTION THRUST VECTOR CONTROL - BIBLIOGRAPHY
HREC/LMSC-A033127 N64-21214 14-27

LAMINAR BOUNDARY LAYER WITH HYDROGEN INJECTION - MULTICOMPONENT DIFFUSION AND TRANSPORT PROPERTIES
ARL-64-40 N64-22300 15-11

SEPARATED FLOW IN CURVED CHANNELS WITH SECONDARY INJECTION
ARD-TR-020-01 N64-27536 19-02

PLASMA HEATING BY INJECTION OF CHARGED PARTICLES
REPT.-64-5 N64-27962 20-24

EFFECTS OF ATOMIZATION AND INJECTION PROCESSES ON PERFORMANCE OF LIQUID PROPELLANT ROCKET ENGINE
N64-28182 20-26

EFFECT OF AIR INJECTION THROUGH PORUS SURFACE AND SLOTS ON TURBULENT SKIN FRICTION AT MACH 3
NASA-TN-D-2427 N64-28327 20-11

SWIRL ATOMIZER FOR FUEL INJECTION IN GAS TURBINE COMBUSTION CHAMBER N64-28586 20-26

HYPERGOLIC FUEL INJECTION IN ROCKET COMBUSTION CHAMBERS N64-28587 20-26

BINARY COUETTE FLOW WITH HYDROGEN INJECTED INTO CARBON DIOXIDE AND NITROGEN STREAMS FOR REENTRY COOLING SYSTEM
NASA-CR-58497 N64-29200 21-11

ENGINE-INTEGRATED SECONDARY INJECTION SIDE-FORCE GENERATION FOR HYDROGEN-FUELED ROCKET ENGINE
NASA-TM-X-51919 N64-29227 21-27

COMPARISON OF THEORY AND EXPERIMENTAL DATA FOR ANALYSIS OF TURBULENT BOUNDARY LAYER WITH AIR OR HELIUM INJECTION
REPT.-61SD49 N64-29524 21-11

RADIAL DIAPHRAGM SEPARATED INJECTION METHOD FOR VARIABLE THRUST LIQUID ROCKET ENGINES WITH CONSTANT MIXTURE RATIO
AGRR-TB-11 N64-30468 22-27

COMPUTER PROGRAM FOR GAIN AND LOSS CHARACTERISTICS OF LASERS, GALLIUM ARSENIDE LASER DIODES, AND SWITCHING IN INJECTION LASERS
QPR-4 N64-30534 22-25

REDUCTION OF SKIN FRICTION WITH LOW ENERGY AIR INJECTION THROUGH DISCRETE SLOTS INTO TURBULENT BOUNDARY LAYER
NASA-TN-D-2102 N64-34018 24-11

INJUN I SATELLITE
SOLAR X-RAY OBSERVATIONS BY INJUN I SATELLITE
SUI-64-27 N64-27860 19-32

INJUN III SATELLITE
PHOTOMETRIC OBSERVATION OF AURORAS BY INJUN III SATELLITE
NASA-CR-55159 N64-13058 04-12

ELECTRON PRECIPITATION MEASUREMENT BY GEIGER COUNTER TUBE ON INJUN III SATELLITE
NASA-CR-55173 N64-13059 04-28

VERY LOW FREQUENCY ELECTROMAGNETIC RADIATION MEASUREMENTS MADE BY INJUN III SATELLITE
N64-14998 06-12

AURORAS AND THEIR EXCITATION STUDIED BY INJUN III
N64-15155 07-12

UPPER ATMOSPHERE HEATING IN AURORAL ZONES DURING GEOMAGNETIC PERTURBATIONS - ANALYSIS OF ATMOSPHERIC DRAG DATA FROM INJUN III SATELLITE
N64-20725 20-32

DATA FROM ALOUETTE AND INJUN III SATELLITES - AVERAGE PRECIPITATION RATE OF ELECTRONS IN AURORAL ZONE AS FUNCTION OF ENERGY
NASA-TM-X-55057 N64-28898 20-12

LARGE DIURNAL VARIATIONS IN ELECTRON INTENSITIES OF GEOMAGNETICALLY TRAPPED AND PRECIPITATED ELECTRONS OBSERVED IN DATA FROM LOW ALTITUDE INJUN III SATELLITE N64-29386 21-12

INJURY
SA BURN INJURY
SA PATIENT
BIOLOGICAL CELL SUBSTANCE CHANGES FROM INJURY AND EXCITATION - STAINABILITY
JPRS-21894 N64-10517 01-16

CRASH INJURIES IN AIRCRAFT ACCIDENTS
AVSER-63-8 N64-22967 16-04

ANIMAL METABOLISM AND DETOXIFICATION OF METABOLIC PRODUCTS DURING RADIATION INJURIES
JPRS-26500 N64-30742 22-16

NERVOUS SYSTEM SENSITIVITY TO INJURY IN RADIATION THERAPY
JPRS-27289 N64-33975 24-16

INLET
CF DUCT
PRESSURE-DRAG EFFECTS OF ROUNDING LEADING EDGES OF HYPERSONIC INLETS
NASA-RP-49 N64-10072 01-02

ULTRAHIGH-VACUUM GAS INLET VALVE IN PRODUCTION OF NONSTATIONARY PRESSURE DISTRIBUTIONS IN THE C-STELLARATOR
NATT-225 N64-12090 03-06

FORCE BALANCE STUDY OF COMBUSTION INLETS FOR ADVANCED VEHICLE APPLICATIONS
ASD-TDR-63-701 N64-13805 05-02

HIGH VACUUM GAS INLET FOR INTRODUCING MICROMOLAR GAS SAMPLES INTO GAS CHROMATOGRAPH
USNRDL-TR-692 N64-15075 07-17

FLOW PATTERN ANALYSES FOR TWO FORCE-BALANCE HYPERSONIC INLET CONFIGURATION DESIGNS
FDL-TDR-64-19 N64-20182 13-27

FORTRAN PROGRAM FOR COMPUTING INVISCID FLOW FIELD OF HYPERSONIC INLET
REPT.-6011 N64-21958 15-02

FLOW OVER TURBINE INLET LATTICES AND TEMPERATURE DISTRIBUTION IN ROOT JOINT OF COOLED GAS TURBINE BLADE
FTD-MT-63-202 N64-26729 18-11

DESIGN DESCRIPTION OF TURBINE WITH VARIABLE PARAMETERS AT INLET
FTD-MT-63-294 N64-33703 24-27

INNER RADIATION BELT
S ARTIFICIAL RADIATION BELT
S OUTER RADIATION BELT
S VAN ALLEN BELT

INORGANIC CHEMISTRY
THERMODYNAMIC STUDIES OF FLUORIDES AND REFRACTORY COMPOUNDS - INORGANIC CHEMISTRY
N64-18810 11-13

NUCLEAR, INORGANIC, ISOTOPE, RADIATION, & ORGANIC CHEMISTRY - AQUEOUS SYSTEMS, ELECTROCHEMICAL KINETICS, CHEMICAL PHYSICS, AND WATER RESEARCH
ORNL-3679 N64-30664 22-07

INORGANIC COATING
TEMPERATURE CONTROL AND INORGANIC OPTICAL COATINGS
N64-27019 19-17

INORGANIC COMPOUND
PERMEABILITY OF HEMATOENCEPHALIC BARRIER TO INORGANIC PHOSPHATE IN ACUTE RADIATION SICKNESS
JPRS-21628 N64-10119 01-16

POLYMERS WITH INORGANIC MAIN CHAINS
JPRS-20272 N64-12805 04-07

REACTIONS FOR FORMING HIGH MOLECULAR WEIGHT POLYMERS WITH INORGANIC AND ORGANIC-INORGANIC CHAINS
N64-12806 04-07

PHYSICAL AND CHEMICAL PROPERTIES, CHARACTERISTICS, INORGANIC AND ORGANIC COMPOUNDS OF POLONIUM
MLM-1165 N64-13381 04-23

INORGANIC INSULATION - BIBLIOGRAPHY
N64-14192 06-19

POLYMERS, PLASTIC MATERIALS, SYNTHETIC FIBERS, ORGANIC & INORGANIC COMPOUNDS, METALS, AND ALLOYS
CRDL-SP-5-3 N64-14815 06-19

DETERMINATION OF TRACE AMOUNTS OF INORGANIC COMPOUNDS IN POLYPHENYLS BY X-RAY SPECTROGRAPHY
EUR-478.F N64-16926 09-07

PHOTOVOLTAIC EFFECTS IN ORGANIC AND INORGANIC CRYSTALS AND THIN FILMS
AFCRL-63-432 N64-17511 09-25

HIGH TEMPERATURE NONREFLECTIVE EROSION RESISTANT FINISH FOR ALUMINUM ALLOYS USING SOLUBLE INORGANIC COMPOUNDS & ANODIZING PROCESS
AD-432321 N64-18770 11-19

INFRARED ABSORPTION SPECTRUM ANALYSIS OF INORGANIC MOLECULES USING MATRIX ISOLATION TECHNIQUE
N64-18803 11-07

COMPARISON OF INFRARED REFLECTION SPECTRA OF INORGANIC & ORGANIC COMPOUNDS WITH INFRARED SPECTRUM OF MARS N64-19879 12-29

REFRACTORY-CERAMIC PROPERTIES OF NONMETALLIC INORGANIC CRYSTALLINE MATERIALS FOR SPACE APPLICATIONS
RTD-TDR-63-4102, SUPPL. 1 N64-22314 15-19

EVOLUTION OF INORGANIC, ORGANIC, AND BIOLOGICAL MATERIALS AND ORIGIN OF LIFE
NASA-TM-X-54008 N64-22754 16-16

CORROSION AND ANTIWEAR TESTING OF INORGANIC SALTS FOR HIGH TEMPERATURE LUBRICANTS
FTD-TT-63-1151/1&2 N64-23443 16-17

INORGANIC BINARY COMPOUND SYNTHESIS BY EXPLODING WIRE TECHNIQUE N64-24128 16-06

MECHANICAL PROPERTIES OF REFRACTORY INORGANIC NONMETALLIC MATERIALS
ASD-TDR-63-431, PT. III N64-28573 20-25

HIGH PURITY INORGANIC MATERIALS FOR SOLID STATE RESEARCH
ORNL-RMIC-2 N64-29095 21-25

MAGNETIC PROPERTIES OF SOLID INORGANIC COMPOUNDS IN FIELD OF INTENSE GAMMA RADIATION
FTD-TT-63-424/1&2&4 N64-29276 21-25

INPUT
MATHEMATICAL STUDY OF LINEAR FILTER DEVICES FOR TRANSFORMING INPUT INTO OUTPUT
MH-TRANS-425 N64-11571 03-09

EFFICIENCY DETERMINATION OF COINCIDENCE CIRCUITS FOR COUNTING SIMULTANEOUS EVENTS - INPUT SIGNAL DELAY VARIATION N64-12554 04-23

INPUT, OUTPUT, AND TRANSFER FUNCTION RELATIONS OF LINEAR TRANSDUCERS N64-16238 08-15

TIME ADJUSTMENT AND AMBIGUITY RESOLUTION OF MINIVAR INPUT DATA - TRACKING DATA
N64-18230 10-08

SHADOW TIME AND HEAT INPUT OF EGO SATELLITE
NASA-TM-X-55014 N64-27251 19-32

MATHEMATICAL HEAT TRANSFER MODEL FOR DETERMINING SENSITIVITY OF HOT WIRE INITIATOR TO INPUT CURRENT
NWL-1919 N64-29877 21-13

INSECT
RESISTANCE OF INSECT METABOLISM AT ULTRALOW TEMPERATURE
JPRS-18218 N64-10752 02-16

PATHOGENIC EFFECT OF LOW & MEDIUM DOSES OF GAMMA RADIATION ON CARRION FLIES AND THEIR PROGENY
JPRS-22107 N64-11272 02-16

SPACE FLIGHT EFFECT ON INCIDENCE OF LETHAL GENETIC MUTATION OF DROSOPHILA MELANOGASTER INSECTS
N64-11680 03-16

INCIDENCE OF DOMINANT LETHAL MUTATIONS IN MALE DROSOPHILA DURING SATELLITE FLIGHT
N64-11681 03-16

SPACE FLIGHT EFFECT ON NONDISJUNCTION OF CHROMOSOMES IN DROSOPHILA INSECT
N64-11684 03-16

VARIATIONS OF RNA IN GIANT CHROMOSOMES OF LARVAE DURING METAMORPHOSIS
JPRS-22666 N64-13229 04-16

CHROMOSOMAL ABERRATIONS IN CHIRONOMUS TENTANS LARVAE EXPOSED TO CHRONIC LOW LEVEL RADIATION
ORNL-3531 N64-14442 06-16

MAGNETIC FIELD INFLUENCE ON RADIATION EFFECT IN INSECT WING DEVELOPMENT N64-15207 07-16

BIOLOGICAL EFFECT OF MAGNETIC FIELD ON DROSOPHILA
NASA-CR-55625 N64-15346 07-16

NAVIGATION & GUIDANCE OF INSECT BY SENSE OF SMELL
LAMS-3027 N64-17241 09-16

IMPREGNATION, REPRODUCTION, AND DEVELOPMENT OF DROSOPHILA UNDER CONDITIONS OF WEIGHTLESSNESS
N64-29092 21-16

GERM CELL MORTALITY IN DROSOPHILA AFTER VOSTOK III AND IV SPACE FLIGHTS N64-29093 21-16

INSECTICIDE
EXPERIMENTAL TOXICOLOGY OF CERTAIN ORGANIC PHOSPHORUS INSECTICIDES
JPRS-22450 N64-11874 03-16

TOXICOLOGY - EFFECTS OF ENDRIN INSECTICIDE ON DOG CARDIOVASCULAR SYSTEM
CARI-63-16 N64-16541 08-16

EFFECTS OF CHRONIC EXPOSURE TO ORGANOPHOSPHATE

INSECTICIDES ON CENTRAL NERVOUS SYSTEM OF HUMAN BODY
CARI-63-24 N64-17252 09-09

RADIOCHEMICAL METHOD FOR ANALYSIS OF PESTICIDE CONTAMINATION IN FOOD PROCESSING
SAN-1022 N64-21590 15-07

INSERT
HIGH TEMPERATURE MATERIALS FOR ROCKET NOZZLES AND INSERTS
REPT.-9-64 N64-16501 08-27

THERMAL SHOCK EVALUATION OF REFRACTORY MATERIALS AS ROCKET NOZZLE INSERTS
NRL-6005 N64-16589 08-27

THERMAL SHOCK EVALUATION OF REFRACTORY MATERIALS AS ROCKET NOZZLE INSERTS N64-16590 08-27

METALLURGICAL EXAMINATION OF FIRED TUNGSTEN ROCKET NOZZLE INSERTS N64-16591 08-27

METALLURGICAL EXAMINATION OF TUNGSTEN ROCKET NOZZLE INSERTS N64-16592 08-27

METALLOGRAPHIC AND FRACTURE STUDIES OF INFILTRATED TUNGSTEN NOZZLE INSERTS N64-16593 08-27

INSERTION
EFFECT OF INSERTION POINT ON PERFORMANCE OF FUSELAGE-MOUNTED, PULSE-DURATION-MODULATED, ATTITUDE CONTROL DEVICE N64-10171 01-04

FILTER INSERTION LOSS AS FUNCTION OF GENERATOR LOAD AND FILTER IMPEDANCES N64-22833 16-09

INSOMNIA
INDUCED SLEEP FOR CURE OF CHRONIC INSOMNIA, BRONCHIAL ASTHMA, ULCERS, AND HYPERTENSION
JPRS-18021 N64-11621 03-16

INSPECTION
SA DETECTION
SA ULTRASONIC INSPECTION
CF QUALITY CONTROL
THERMAL NONDESTRUCTIVE EVALUATION OF METALLIC AND CERAMIC STRUCTURES - INFRARED DETECTION
ASD-TDR-62-385 N64-10251 01-23

PROBABILITY OF COLLAPSE OF FAIL-SAFE AIRCRAFT STRUCTURES OF 6 PARALLEL ELEMENTS - FUNCTION OF SERVICE LIFE FOR VARIOUS INSPECTION INTERVALS
HU-961 N64-17150 09-09

THERMAL NONDESTRUCTIVE TESTING BY INFRARED RADIOMETRIC MEASUREMENT OF HEAT TRANSFER RATES
ASD-TDR-62-385, PT. II N64-30922 22-25

FACTORS AND PROCEDURES FOR APPLICATION OF NEW STANDARDS IN LIFETIME AND RELIABILITY INSPECTION
TR-10 N64-31168 22-17

ULTRASONIC TRANSDUCER FOR NONDESTRUCTIVE INSPECTION OF RESISTANCE SPOT WELDS DURING FORMATION
R-1729 N64-32929 24-17

INSTABILITY
SA SPUTTERING
CF STABILITY
INSTABILITY EQUILIBRIUM EQUATIONS OF ORTHOTROPIC CIRCULAR CONICAL SHELL SUBJECTED TO HYDROSTATIC PRESSURE AND COMPRESSIVE AXIAL FORCE
NASA-CR-52883 N64-11337 02-33

DRIFT-WAVE INSTABILITY OF WEAKLY INHOMOGENEOUS, FULLY IONIZED PLASMA CONFINED BY STRONG MAGNETIC FIELD
MATT-234 N64-13020 04-24

POSSIBLE CLASS OF GALACTIC RADIO SOURCES - ROTATIONAL INSTABILITY OF LOW MASS STARS
NASA-CR-55340 N64-14179 06-05

OSCILLATORY INSTABILITIES OF EVAPORATION IN TWO PARALLEL HEATED CHANNELS
AERE-M-1105 N64-15391 07-11

TENSILE INSTABILITY OF HOLLOW ROTATING DISKS OF UNIFORM THICKNESS
ARC-CP-692 N64-16938 09-33

LONGITUDINAL PLASMA OSCILLATIONS - DISPERSION, VELOCITY DISTRIBUTION, AND PHYSICAL MECHANICS OF PLASMA INSTABILITY
NASA-CR-53821 N64-19314 12-24

STRATOSPHERIC INSTABILITY STUDY USING ATMOSPHERE MODEL N64-24460 17-21

HYDROFOIL INSTABILITY AT LOW MASS DENSITY RATIOS
AD-437679 N64-25575 17-11

FLAME FRONT INSTABILITY IN STEADY FLOW, VIBRATORY FLOW, AND SHOCK WAVES N64-26006 18-26

BIBLIOGRAPHY ON MAGNETIC DIFFUSION & DRIFT INSTABILITIES OF PLASMAS
MATT-285 N64-28421 20-24

CONFIGURATION OF STELLARATOR CORRUGATION FIELD TO REDUCE LOCALIZED INSTABILITIES
MATT-281 N64-28505 20-24

CLASSIFICATION OF MEDIA IN WAVE PROPAGATION - BOUNDARY CONDITIONS FOR EVANESCENCE AND ABSOLUTE INSTABILITY
DI-82-0347 N64-30022 21-23

PLASTIC GENERAL-INSTABILITY OF TRANSVERSE RING-STIFFENED CYLINDRICAL SHELLS SUBJECTED TO EXTERNAL HYDROSTATIC PRESSURE
DIMB-1587 N64-31704 23-34

POINT OF INSTABILITY OF GENERAL RELATIVISTIC FLUID SPHERE WITH CONSTANT ENERGY DENSITY AND HEAT CAPACITY
MRC-487 N64-31960 23-23

INSTABILITY OF THREE ROW VORTEX STREETS ON LEEWARD SIDE OF ISLAND GROUPS
PIBAL-784 N64-32135 23-11

GENETIC INSTABILITY IN BACTERIA AND PRESENCE OF CONTROLLING EPISOMES
QTSR-1 N64-32514 23-16

INSTABILITY EFFECT ON TWO-PHASE HEAT TRANSFER FOR SUBCOOLED WATER FLOWING IN ZERO GRAVITY ENVIRONMENT
NASA-TN-D-2259 N64-33083 24-13

FINITE LARMOR ORBIT RADIUS EFFECT ON INSTABILITY OF ALFVEN IONIC WAVE
IPPJ-28 N64-33498 24-24

NONLINEAR PROPERTIES OF ELECTRON-HOLE PLASMAS SUSTAINING HELICAL INSTABILITY
DI-82-0339 N64-33598 24-25

INSTALLATION
S CONSTRUCTION

INSTRUCTION
CF TRAINING
COMPUTER MODEL FOR ANIMAL BEHAVIOR STUDY AND INSTRUCTION FOR RECOGNITION - CYBERNETICS N64-12525 04-16

INSTRUCTIONS FOR AUTOMATIC FLIGHT PROGRESS STRIP LOADER - DATA PROCESSING & DISPLAY SYSTEM N64-19251 11-17

PROGRAMMED INSTRUCTION AND CYBERNETIC TEACHING MACHINES
JPRS-24933 N64-21694 15-08

REQUIREMENTS FOR HARDWARE COMPUTER USING IPL-V INSTRUCTION SET
ANL-6888 N64-28449 20-08

MODELING IN TEACHING FOREIGN LANGUAGES AND PROBLEMS OF PROGRAMMED INSTRUCTION USING PSYCHOLOGY
JPRS-27166 N64-33485 24-14

INSTRUMENT
SA APPROACH AND LANDING INSTRUMENT
SA METEOROLOGICAL INSTRUMENT
SA RECORDING INSTRUMENT
MEASUREMENT OF ION CONCENTRATION AND TOTAL ION DENSITY IN EXOSPHERE USING MASS SPECTROMETER AND ELECTROSTATIC PROBE
NASA-RP-63 N64-10357 01-12

INSTRUMENTATION ERRORS DUE TO ATMOSPHERIC REFRACTION N64-15323 07-15

ELECTROSTATIC SEPARATION OF HIGH CONDUCTIVITY MINERALS
BM-RI-6404 N64-17299 09-17

TESTING OF BANSHEE PROJECT ELECTROMAGNETIC MEASURING INSTRUMENTS
EG&G-B-2687 N64-20096 13-23

HIGH PERFORMANCE ELECTROSTATIC DISCHARGER FOR HELICOPTER
DCR-113 N64-21237 14-06

APPLICATION, CALIBRATION, AND SOURCES OF ERRORS OF HIGH VACUUM MEASURING INSTRUMENTATION
FDL-TDR-64-68 N64-22559 15-15

MEASUREMENT AND INSTRUMENT ERRORS IN STATIC-PRESSURE ALTIMETER SYSTEM
AIAA PAPER-64-344 N64-23230 16-15

SAFETY FACTOR AND COMPUTATION FOR ELECTROMAGNETIC DEVICE OF GIVEN DEPENDABILITY
FTD-TT-63-37/1&2 N64-23295 16-16

ERROR DETERMINATION OF FREE GYROSCOPE SET ON UNIFORMLY ROTATING BASE N64-23542 16-15

KINETIC THEORY OF SPHERICAL ELECTROSTATIC PROBE IN SLIGHTLY IONIZED PLASMA
AD-441726 N64-25727 17-23

HELEOTROPIC ORIENTATION DEVICE FOR CONCENTRATOR IN SOLAR POWER GENERATION SYSTEMS
NASA CR-56410 N64-26581 18-06

ELECTROMAGNETIC MEASURING INSTRUMENT FOR RADIO INTERFERENCE - MICROWAVE ASSEMBLY, MULTIPLEXER AND FILTERS, DATA HANDLING, AND CIRCUIT DESIGN
QTR-4 N64-30592 22-08

ELECTRICAL HEATER ERROR IN ROCKING-BOMB SOLUTION CALORIMETERS
UCRL-7992 N64-31057 22-13

QUIET SYNCHROS - MATHEMATICAL COMPUTATIONS AND EXPERIMENTAL INVESTIGATIONS IN ACOUSTICAL NOISE REDUCTION N64-31478 23-17

BRUSHLESS ELECTROMAGNETIC PHASE SHIFTING DEVICE N64-31503 23-09

ERRORS AND OTHER CONSIDERATIONS IN INSTRUMENT CONSTRUCTION
JPRS-26528 N64-31851 23-15

END-CUTTERS AND TECHNIQUES FOR CUTTING GROOVES N64-31875 23-17

MULTIPURPOSE INSTRUMENT FOR ELECTROCHEMICAL STUDIES
DP-903 N64-32084 23-15

INSTRUMENT LANDING SYSTEM
PILOTED SIMULATOR STUDY OF ALTITUDE LOSS BY JET TRANSPORT IN GO-AROUND FROM INSTRUMENT LANDING APPROACH
NASA-TN-D-2060 N64-10267 01-04

MINIMUM PERFORMANCE STANDARDS FOR AIRBORNE INSTRUMENT LANDING SYSTEM LOCALIZER RECEIVING EQUIPMENT
RTCA-20-63/DO-115 N64-10420 01-08

STANDARD PERFORMANCE CRITERIA FOR AIRBORNE AUTOPILOT/COUPLER EQUIPMENT FOR USE WITH INSTRUMENT LANDING SYSTEMS
RTCA-31-63/DO-118 N64-10421 01-22

AUTOMATIC FLAREOUT PERFORMANCE - BLIND LANDING SYSTEM
AGARD-424 N64-13880 05-04

INSTRUMENT LANDING SYSTEM GLIDE SLOPE ANTENNA SYSTEMS EVALUATION
RD-64-11 N64-18087 10-09

RADAR SENSOR AND VERTICAL DISPLAY FOR AIRBORNE INSTRUMENT LANDING SYSTEM
AD-435558 N64-19776 12-08

AIR TRAFFIC CONTROL - INSTRUMENT LANDING SYSTEM ON RUNWAYS AT KENNEDY AIRPORT & LAGUARDIA AIRPORT
RD-64-87 N64-23240 16-10

ANALOG COMPUTER STUDIES OF ALL-WEATHER INSTRUMENT LANDING SYSTEMS - LOW APPROACH DECISION REGIONS AND GLIDE PATH EXTENSION N64-26950 18-22

FLIGHT TEST OF MODIFIED GROUND BEACON AND DISTANCE MEASURING EQUIPMENT FOR INSTRUMENT LANDING SYSTEM
AD-602743 N64-33068 24-22

INSTRUMENTATION
SA BIOINSTRUMENTATION
SA METER
SA SATELLITE INSTRUMENTATION
SURFACE GEOPHYSICAL INSTRUMENT FOR SURVEYOR SPACECRAFT PROJECT
NASA-CR-52133 N64-10097 01-15

LAYOUT AND INSTRUMENTATION IN EUROPEAN NUCLEAR PHYSICS LABORATORIES
TID-18275 N64-10320 01-10

SATELLITE TRACKING INSTRUMENTS, LUN-3 AND SEMIAUTOMATIC TELESCOPE
JPRS-17775 N64-10719 02-08

DESCRIPTION OF NEW SATELLITE TRACKING INSTRUMENT, LUN-3 N64-10720 02-08

INSTRUMENTATION FOR SIMULTANEOUS MEASUREMENT OF SPECTRAL AND NORMAL EMITTANCE OF MATERIALS IN AMBIENT AND VACUUM ENVIRONMENT AT HIGH TEMPERATURE
WADD-TR-60-102 N64-10958 02-15

SEISMOGRAPHIC INSTRUMENTS
JPRS-22038 N64-11268 02-12

INSTRUMENT FOR DETERMINING CRUSHING STRENGTH OF FUEL PARTICLES
ORNL-3512 N64-11385 02-26

METHODS FOR RECORDING PHYSIOLOGICAL DATA IN DOG LAYKA DURING SOVIET SPACE FLIGHT N64-11690 03-16

DEVICE FOR MEASURING SMALL TIME INTERVALS
FTD-TT-63-149/1&2 N64-11765 03-07

AUTOMATION IN INDUSTRY AND INSTRUMENTATION FOR REMOTE CONTROL NAVIGATION OF SHIPS - CYBERNETICS
JPRS-22345 N64-11917 03-16

FLIGHT CHARACTERISTICS, INSTRUMENTATION, AND CONSTRUCTION OF L-29 SINGLE TURBOJET TRAINING AIRCRAFT
FTD-TT-63-299/1 N64-12084 03-04

PILOT BIOMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR MONITORING PERFORMANCE DURING CENTRIFUGE SIMULATIONS OF SPACE FLIGHT
NADC-MA-6308 N64-12256 03-16

INSTRUMENTATION EVALUATION AND OBSERVATION OF PHENOMENA ASSOCIATED WITH ATMOSPHERIC REENTRY AT ORBITAL VELOCITIES
AFSWC-TDR-63-58 N64-12937 04-30

TRANSISTORIZED INSTRUMENTATION FOR MEASUREMENTS IN HEALTH PHYSICS
RSIC-87 N64-12997 04-16

APPARATUS FOR DIFFERENTIAL THERMAL ANALYSIS OF EXPLOSIVE MATERIALS
LAMS-2988 N64-13294 04-26

ANNOTATED BIBLIOGRAPHY - MECHANICS OF HEAT PUMPS AND ABSORPTION REFRIGERATION FOR SPACECRAFT
SB-62-16 N64-13327 04-13

HUMAN CENTRIFUGE - INSTRUMENTATION IN ACCELERATION STRESS TESTING N64-13456 05-15

GYROSCOPIC, ELECTRONIC, AUTOMATIC, OPTIC, AND THERMAL INSTRUMENTS
JPRS-22479 N64-13565 05-01

REACTOR & NUCLEAR PHYSICS, INSTRUMENTATION, APPLIED MATHEMATICS, & MACHINE COMPUTATIONS - MATERIALS TESTING REACTOR
IDO-16917 N64-13900 05-18

SCIENTIFIC INSTRUMENTS IN SPACE EXPLORATION
NASA-CR-55314 N64-13914 05-29

ROCKET-BORNE NITRIC OXIDE DETECTOR USING SELECTIVE PHOTOIONIZATION
DASA-1419 N64-14010 05-12

BIBLIOGRAPHY ON INSTRUMENTATION AND MEASUREMENTS OF ELECTRICAL INTEGRATED CIRCUIT - DIELECTRICS
N64-14183 06-25

SPACE COMMUNICATIONS & PASSIVE SATELLITES - INSTRUMENTATION DEVELOPMENT
RADC-TDR-63-611, SUPPL. 1 N64-14350 06-15

ELECTROACOUSTIC TEMPERATURE-FREQUENCY CONVERTER
FTD-MT-63-99/1&2&3&4 N64-14382 06-09

INSTRUMENTATION SYSTEM FOR MEASURING IONOSPHERIC CROSS-MODULATION
REPT.-205/E/ N64-14654 06-12

TESTING NUCLEAR REACTOR INSTRUMENTATION WITH EXPONENTIAL SIGNALS
HW-79127 N64-14884 06-15

ASTROPHYSICAL RESEARCH WITH HIGH DISPERSION INSTRUMENTS N64-15278 07-05

SATELLITE SYSTEM FOR CALIBRATION OF RANGE INSTRUMENTATION N64-15325 07-15

COMPARISON OF FERRELECTRIC BOLOMETER WITH OTHER THERMAL DETECTORS FOR SPACE INSTRUMENTATION
NASA-CR-55542 N64-15386 07-15

DIMENSIONS OF INSTRUMENTS FOR MEASURING TEMPERATURE, PRESSURE, QUANTITY, AND RATE OF FLOW OF LIQUIDS, GASES, AND VAPORS
FTD-TT-63-16 N64-15575 07-15

NUCLEAR PHYSICS RESEARCH IN ISOTOPES, SEPARATION, AND INSTRUMENTATION OF RADIOACTIVE ELEMENTS
MLM-1160 N64-16266 08-23

INSTRUMENT FOR VECTORCARDIOGRAPHIC AND SCALAR ELECTROCARDIOGRAPHIC MEASUREMENTS
AD-412814 N64-16567 08-16

INSTRUMENTATION FOR MEASURING FREEZING POINTS OF URANIUM HEXAFLUORIDE-HYDROGEN FLUORIDE SAMPLES
K-1590 N64-17530 09-15

INSTRUMENTATION FOR FAR ULTRAVIOLET ROCKET SPECTROPHOTOMETRY
NASA-TN-D-2250 N64-17992 10-15

INORGANIC SOLIDS FOR HIGH TEMPERATURE LUBRICANTS
JPRS-23893 N64-18091 10-01

WATER FLOW CHANNEL AND INSTRUMENTATION AND APPLICATION TO AERODYNAMIC DECELERATION
RTD-TDR-63-4024 N64-18938 11-10

INSTRUMENTATION, EQUIPMENT, AND METHODS IN ENVIRONMENTAL TESTS - WEAPON SYSTEM MANAGEMENT
SC-4452B/M/ N64-19713 12-10

INSTRUMENTATION FOR REMOTE MICROWAVE PROBING OF ATMOSPHERE
NBS-7698 N64-20327 13-15

RADIO FREQUENCY INTERFERENCE AT ORBITAL ALTITUDES AND IN-FLIGHT MONITORING INSTRUMENTATION DESIGN
SSD-TDR-64-33 N64-20465 13-08

MARINER II SPACE PROBE INSTRUMENT FOR MEASURING INTERPLANETARY SOLAR PLASMA
NASA-CR-56038 N64-20603 13-15

INSTRUMENTATION AND CONTROL SYSTEMS FOR RADIATION DETECTION, MONITORING, REACTOR CONTROL, DATA HANDLING, COMPUTATION, AND ACCELERATOR PROGRAMS
ORNL-3578 N64-21112 14-15

INSTRUMENTED HIGH ALTITUDE SOUNDING PROJECTILE FOR ATMOSPHERIC TEMPERATURE AND WIND VELOCITY DETERMINATION
NOLTR-63-272 N64-21181 14-32

RADIO FREQUENCY SPECTRUM PARAMETERS FOR INSTRUMENTATION TIMING SYSTEMS
IRIG-105-63 N64-21600 15-08

INSTRUMENTATION TO AID PILOT PERFORMANCE IN AIRCRAFT GUIDANCE
NOTS-TP-3330 N64-21811 15-10

PACIFIC MISSILE RANGE - FACILITY AND INSTRUMENTATION
PMR-MP-63-7 N64-21999 15-10

OPTICAL INSTRUMENTS AND OTHER PRECISION MEASURING APPARATUS
FTD-TT-62-909/1&2&3&4 N64-22476 15-23

APPLICATION, CALIBRATION, AND SOURCES OF ERRORS OF HIGH VACUUM MEASURING INSTRUMENTATION
FDL-TDR-64-68 N64-22559 15-15

SCINTILLATION COUNTER FOR GAMMA DEFECTOSCOPY
FTD-TT-63-696/1 N64-22656 15-15

IMPROVEMENT OF BIOCHEMICAL INSTRUMENTATION
NASA-CR-51095 N64-22774 16-16

INSTRUMENTATION TO INCREASE FREQUENCY RANGE OF FIELD INTENSITY METER N64-22825 16-09

HIGH SPEED BASIN AND INSTRUMENTATION SYSTEMS FOR TESTING TORPEDOES, HYDROFOILS, PLANING BOATS, PUMPJETS, PROPELLERS, AND OTHER HIGH SPEED VEHICLES
DTMB-1660 N64-22903 16-10

RANGE INSTRUMENT CALIBRATION
ESD-TDR-64-188 N64-23203 16-15

INSTRUMENTATION PROBLEMS ASSOCIATED WITH ANALYSIS OF LUNAR CRUST AND ATMOSPHERE BY MASS SPECTROMETRY
NASA-CR-56545 N64-23528 16-29

RADIO, COMPUTER, GYROSCOPIC, NAVIGATIONAL, OPTICAL, AND THERMAL INSTRUMENTATION
JPRS-23033 N64-23532 16-04

INSTRUMENTATION FOR DETERMINATION OF DISTRIBUTION FUNCTIONS OF RANDOM SIGNALS N64-23533 16-20

ATMOSPHERIC COMPOSITION INSTRUMENTATION FOR TEMPERATURE DETERMINATION OF MARS ATMOSPHERE
NASA-CR-56453 N64-24043 16-15

STATIC RADAR REFLECTIVITY SYSTEM AND TECHNIQUE MEASUREMENT - ANECHOIC CHAMBER REQUIREMENTS
N64-24284 17-08

MOTION MEASURING INSTRUMENTATION FOR HYDROFOIL CRAFT
MPD-47-135/R/ N64-24338 17-15

INSTRUMENT BUILDING
JPRS-24617 N64-24536 17-09

INSTRUMENTATION FOR ANALYSIS OF MANNED SPACECRAFT CONTAMINATION N64-24620 17-15

ULTRAVIOLET, VISIBLE, & INFRARED SPECTROPHOTOMETRY FOR ANALYSIS OF MANNED SPACECRAFT
N64-24621 17-15

GEOMETRY AND INSTRUMENTATION CONSIDERATIONS FOR

DYNAMIC REFLECTIVITY MEASUREMENTS
N64-24725 17-08

ANALYSIS OF CARDIAC ACTIVITY BY CENTER OF GRAVITY VARIATIONS IN HUMAN THORAX - DYNAMOCARDIOGRAPH
NASA-TT-F-205 N64-25206 17-16

DESIGN ANALYSIS, INSTRUMENTATION, CONTROL, AND SAFETY OF SODIUM COOLED FAST BREEDER REACTOR
CEND-200, VOL. 2 N64-25561 17-23

IMPULSE ACCELEROMETER - INSTRUMENT INDICATING MAGNITUDE OF ACCELERATION AND TIME DURATION OF ACCELERATION PULSES
UCRL-7766 N64-25890 18-15

INSTRUMENTATION SYSTEM OF BLACK BRANT MISSILE
CARDE-TN-1611/64 N64-26069 18-06

AURICULAR ELECTROMYOGRAM - DIAGNOSTIC METHOD FOR HEMODYNAMIC DISORDERS AND CARDIAC DISEASES
FTD-TT-64-271/1&2&3&4 N64-26092 18-16

ARC CHAMBERS AND INSTRUMENTATION DEVELOPMENT OF HOTSHOT TUNNEL N64-26143 18-13

INSTRUMENTATION FOR AIRCRAFT PILOT TRAINING IN SPECIAL WEAPON DELIVERY TECHNIQUES
NOTS-TP-3346 N64-26235 18-14

HIGH FREQUENCY PHASE COMPARATOR USING DIODE VECTOR RECTIFIERS FOR ROCKET INSTRUMENTATION
NASA-CR-58057 N64-26360 18-15

SCIENTIFIC EXPERIMENTS, INSTRUMENTATION, AND DATA FROM MARINER VENUS MISSION
NASA-RP-271 N64-26516 18-32

INSTRUMENTATION, OPERATION, AND PERFORMANCE OF ACTIVE SEISMIC SYSTEMS FOR COMMUNICATION OR SURVEILLANCE
USAELRDL-TR-2446 N64-26585 18-15

AEROLOGICAL OBSERVATORY PROCEEDINGS - METHODS AND INSTRUMENTATION FOR ATMOSPHERIC COMPOSITION STUDIES WITH EMPHASIS ON MASS SPECTROMETRY
NASA-TT-F-141 N64-26961 19-15

INSTRUMENTATION FOR SIMULTANEOUS RECORDING OF BLOOD PRESSURE CURVE, PHONOCARDIOGRAM, AND ELECTROCARDIOGRAM
JPRS-25897 N64-27125 19-16

AUTOMATIC COLLECTION OF GEOMAGNETIC DATA IN DIGITAL FORM - INSTRUMENTATION
AFCRL-64-470 N64-27435 19-15

METHODOLOGY AND ELECTRONIC INSTRUMENTATION FOR ANALYSIS OF GEOGRAPHIC PHENOMENA
AD-601222 N64-27641 19-12

SENSORS FOR NUCLEAR REACTOR INSTRUMENTATION AND CONTROL PROGRAMS
GEMP-83 N64-28029 20-15

LOCAL OSCILLATOR DEVELOPMENT, COMPONENT EVALUATION, AND DESIGN PLAN FOR RADIO INTERFERENCE MEASURING INSTRUMENT
REPT.-2 N64-28227 20-08

MEDIUM RESOLUTION ELECTROLUMINESCENT DISPLAY PACKAGE FOR SPACECRAFT VISUAL INSTRUMENTATION
N64-28308 20-09

INSTRUMENTATION FOR LUNAR SOFT LANDING
N64-28407 20-29

METEOROLOGICAL OBSERVATIONS AND INSTRUMENTATION
JPRS-25718 N64-28436 20-21

TECHNIQUES AND INSTRUMENTATION FOR MEASURING OSCILLATORY DERIVATIVES IN WIND TUNNELS
ARC-R&M-3319 N64-28521 20-33

INSTRUMENT FOR MEASURING ROOT-MEAN-SQUARE CURRENT IN ELECTRIC FIRING CIRCUITS FOR ASSESSMENT OF INDUCED CURRENT HAZARD
WRE-TN-EID-56 N64-28718 20-15

INSTRUMENT FOR MEASURING ION COMPOSITION OF UPPER ATMOSPHERE N64-28856 20-15

MATERIAL SPECIFICATIONS AND INSTRUMENT TEST MEASUREMENT STANDARDS FOR BOILER AND TURBINE RESEARCH FACILITY
AD-602036 N64-28869 20-15

PRINCIPLES OF ELECTROSTATIC PROPULSION, TYPES OF THRUSTORS, POWER GENERATION SYSTEMS, AND INSTRUMENTATION
NASA-TM-X-51766 N64-28953 20-27

CONDENSED INSTRUMENTATION AND CONSTRUCTION DATA FOR UNDERSNOW RADAR STATION
CRREL-132 N64-29022 21-10

HIGH PRECISION MASS SPECTROMETER
N64-29066 21-23

DESIGN, CONSTRUCTION, CALIBRATION, AND OPERATION OF INSTRUMENTS
JPRS-26079 N64-29126 21-15

AUTOMATIC INSTRUMENTS AND SYSTEMS WITH STEP-BY-STEP CONTROL SYSTEMS N64-29140 21-15

VERTICAL AND HORIZONTAL SOLION SEISMOMETERS
QSR-3 N64-29421 21-15

PERIPHERAL EQUIPMENT AND MEASURING INSTRUMENTS FOR CLOSED LOOP SYSTEM
QTPR-9 N64-29437 21-24

STANDARD TECHNIQUES FOR DETERMINING ACCURACY ESTIMATES FOR RANDOM, SYSTEMATIC, AND PROPAGATED ERRORS IN INSTRUMENTATION SYSTEMS
IRIG-103-64 N64-29611 21-15

INTERNATIONAL COOPERATION ON TEST EQUIPMENT, INSTRUMENTATION, POWER SUPPLY, AND ANALYSIS FOR PROGRAM ON TWO-PHASE FLOW
GEAP-4367 N64-29622 21-11

STELLAR ASTRONOMY AND ASTROPHYSICS, ASTRONOMICAL INSTRUMENTATION, SATELLITE TRACKING, AND SEISMOLOGY N64-29945 21-05

INSTRUMENTATION, TEST PROGRAMS, FACILITY STATUS, AND CONE LAUNCH DEVELOPMENT PROGRAM
BSR-984 N64-30020 21-15

MEASUREMENT OF FORCES AND MOMENTS ACTING ON VEHICLE MOVING AT HIGH SPEED WITHIN TUBE - FACILITY AND INSTRUMENTATION N64-30405 22-02

INSTRUMENTATION FOR PHYSICAL MEASUREMENTS IN MAGNETOPLASMADYNAMIC CLOSED LOOP
N64-30437 22-15

PREDICTIVE INSTRUMENTATION TECHNIQUES FOR MANUAL AIRCRAFT CONTROL
HB-9202-0027 N64-30559 22-15

TRANSISTORIZED INSTRUMENTATION SYSTEM FOR ACOUSTICAL DATA ACQUISITION
NASA-TN-D-2485 N64-30611 22-15

DIGITAL COMPUTER PROGRAM FOR SPACE FLIGHT CONTROL AND INSTRUMENTATION PROBLEMS
ASD-TDR-63-259 N64-30823 22-20

ESTIMATION OF TRACE IMPURITIES BY FLUORIMETRIC METHODS - FLUORESCENCE REAGENT SELECTION AND INSTRUMENTATION
FTR/2/GE, PT. 2 N64-31323 22-07

ELECTROMETRIC AMPLIFIER FOR USE WITH HIGH RESISTANCE GLASS MICROELECTRODES IN MEASURING IONIC ACTIVITY IN MUSCLE AND NERVE CELLS
N64-31545 23-16

CAPABILITIES AND LIMITATIONS OF HYPERSONIC SHOCK TUNNEL FACILITIES AND INSTRUMENTATION
NOLTR-63-259 N64-31670 23-10

RAPID RESPONSE INSTRUMENTATION FOR TURBULENT FLUX MEASUREMENT IN BOUNDARY LAYER AND FILM READER SYSTEM - ANALOG STATISTICAL ANALYZER

AFCRL-64-147 N64-31846 23-15

APPLICATION OF METHOD OF DIFFERENTIAL COMPLEX FOR INVESTIGATION OF FLAT ENGAGEMENTS
N64-31873 23-17

INSTRUMENTATION DATA ON REENTRY FLIGHT VEHICLE DEMONSTRATION
SC-RR-64-502 N64-32070 23-30

SURVEY DATA OF RANGE INSTRUMENTATION STATIONS
AD-442881 N64-32291 23-12

INSTRUMENTATION - SENSORS, INFORMATION PROCESSING, AND CONTROL SYSTEMS N64-32775 24-15

VEHICLE RANGE EXTRACTION UNIT FOR AUTOMATIC RANGING & ORBIT DETERMINATION SYSTEM
NASA-CR-58885 N64-33204 24-08

ATMOSPHERIC ELECTRICITY STUDIES AND CORRELATION WITH IONOSPHERIC IRREGULARITIES - AIRBORNE INSTRUMENTATION FOR ELECTRIC FIELD MEASUREMENTS
AFCRL-64-678 N64-33309 24-12

PRECISE LATERAL-ADJUSTMENT INSTRUMENT SUPPORT
N64-33609 24-17

INSULATING MATERIAL
FIBERGLASS AND FIBERGLASS PRODUCTS UTILIZED AS BUILDING MATERIALS FOR INSULATION
JPRS-18380 N64-10641 01-19

PROPERTIES OF INSULATING MATERIALS FOR LIGHTWEIGHT THERMAL PROTECTION SYSTEMS
ASD-TDR-63-596, VOL. 2 N64-11772 03-13

CONDUCTION MECHANISMS IN VERY THIN INSULATING FILMS - TUNNEL ELECTRON PRODUCTION
AD-424628 N64-13031 04-09

INSULATING MATERIAL FOR FLIGHT VEHICLE
A260 N64-13251 04-17

DIELECTRIC PROPERTIES OF INSULATING LIQUIDS - BIBLIOGRAPHY N64-14191 06-19

INORGANIC INSULATION - BIBLIOGRAPHY
N64-14192 06-19

APPLICATION OF INSULATING MATERIALS AND DIELECTRICS TO ELECTRICAL MACHINERY AND DEVICES
N64-14193 06-01

POROUS INSULATING MATERIALS FOR CRYOGENIC USE
REPT.-0782-01-1 N64-14823 06-13

GLASS CLOTH-PHENOLIC LAMINATES FOR INSULATION OF CORROSION RESISTANT STEEL RUB-STRIP FACE PLATES
FGT-2735, ADD. 1 N64-15683 07-19

GAMMA RADIATION EFFECTS ON POLYMERS USED AS POTTING AND INSULATING COMPOUNDS
NASA-TM-X-54615 N64-16701 08-19

REFRACTORY METALS, INSULATING MATERIALS, AND CESIUM RESISTANT SEALS FOR THERMIONIC CONVERTER
AD-430112 N64-19245 11-06

MYLAR INSULATION IN RELAY MANUFACTURING
N64-19506 12-17

QUALITY CONTROL OF LIGHTWEIGHT INSULATION PANELS FOR CENTAUR VEHICLE
MR-SS-014 N64-20342 13-13

HEAT DIFFUSION RATE IN INSULATING MATERIALS USING VERY SHORT IMPULSES
EUR-1822.F N64-28253 20-13

ABLATING CORK AS THERMAL PROTECTION MATERIAL
NASA-TN-D-2438 N64-28330 20-19

DIELECTRIC PROPERTIES OF ELECTRICAL INSULATING MATERIALS AT VERY LOW FREQUENCIES
N64-28518 20-07

STRUCTURAL DESIGN OF HIGH TEMPERATURE INSULATING MATERIAL SYSTEMS FOR REENTRY VEHICLES
N64-30911 22-34

HIGH FIELD TRANSPORT IN ALKALI HALIDE INSULATORS
AROD-4017-4 N64-31118 22-25

MECHANISM OF CONDUCTION IN VERY THIN FILMS OF INSULATING MATERIAL
IER-3 N64-31229 22-25

HIGH TEMPERATURE SYNCHROS - ORGANIC AND INORGANIC INSULATING MATERIALS N64-31477 23-17

ELECTRIC PROPERTIES OF PYROCERAM INSULATING MATERIAL
DS-130 N64-32202 23-25

INSULATION
SA ELECTRIC INSULATION
SA THERMAL INSULATION
CF PROTECTION
CF TEMPERATURE CONTROL
INSULATING STATE THEORY FOR FREE METAL PARTICLE ELECTRON WAVE FUNCTION
AD-419913 N64-11455 03-23

RADIATIVE INSULATION SYSTEM FOR STRUCTURAL PROTECTION IN REENTRY ENVIRONMENT
ERR-FW-120 N64-18921 11-13

LOW TEMPERATURE OPERATION AND INSULATION OF BATTERIES
QR-5 N64-19081 11-06

LOW DENSITY POLYURETHANE FOAM WITH MYLAR AND ALUMINUM FOIL THIN-FILM SEAL AS INSULATION SYSTEM FOR LIQUID HYDROGEN TANKS OF ROCKET VEHICLES
N64-19371 12-13

QUALITY CONTROL OF LIGHTWEIGHT INSULATION PANELS FOR CENTAUR VEHICLE
MR-SS-014 N64-20342 13-13

STRENGTH TEST OF SANDWICH CONSTRUCTION LIGHTWEIGHT INSULATION PANELS FOR CENTAUR VEHICLE TO DETERMINE DESIGN ALLOWABLE STRESSES
SSR-1-63 N64-20343 13-13

EFFECT OF DIFFUSION FACTORS ON FLAME STABILITY - HEAT EXCHANGE IN HORIZONTAL SURFACES OF HEAT INSULATING STRUCTURES
FTD-TT-62-1804/1&2&4 N64-21927 15-23

HERMETICALLY SEALED LIGHTWEIGHT FOAM INSULATION FOR LIQUID HYDROGEN TANKS OF LAUNCH VEHICLES
N64-25048 17-30

EFFECT OF ELECTRICAL INSULATION MATERIALS ON PROTECTIVE METAL FINISHES UNDER CONDITIONS OF HEAT AND MOISTURE
RIA-64-728 N64-25513 17-09

METAL INSULATION, FINISHING, PLATING, AND HERMETIC SEALING PROCESSES IN PRODUCTION OF RADIO AND ALLIED ELECTRONIC EQUIPMENT
OTS-61-31204 N64-26352 18-08

AXIAL FLOW FROM END OF METALLIC CYLINDER BOUNDED BY INSULATING WALL UNDER CAPACITOR DISCHARGE CONDITIONS
SID-64-874 N64-26465 18-24

TRANSIENT BODY TEMPERATURES IN HOLLOW CYLINDERS WITH HEATED INTERIOR AND INSULATED EXTERIOR SURFACE - CYLHEAT HANDBOOK
ABL/X-123 N64-29895 21-13

HIGH TEMPERATURE ALKALI METAL RESISTANT INSULATION
WAED-64-39-E N64-30053 21-17

INSULATOR
STRESS EFFECTS ON INSULATOR TO METAL TRANSITIONS IN VANADIUM COMPOUNDS
HP-11 N64-16956 09-25

PLASMA GENERATION, ELECTRON TRANSPORT, AND CESIUM INTERACTION WITH METAL SURFACE AND INSULATORS IN VAPOR-FILLED THERMIONIC CONVERTER
NASA-CR-54009 N64-17222 09-23

GLASSES FOR HIGH VOLTAGE INSULATORS
FTD-TT-63-256/1&2&4 N64-19183 11-19

FABRICATION AND PERFORMANCE OF VIDICON TARGET WITH THIN INSULATOR LAYER
AL-TDR-64-93 N64-21414 14-25

HIGH STRENGTH CERAMICS FOR HIGH VOLTAGE INSULATORS
N64-23095 16-09

EFFECTS OF RING, BRUSH, & INSULATOR MATERIALS ON ELECTRICAL NOISE AND MECHANICAL WEAR IN MINIATURE SLIP-RING ASSEMBLIES
NASA-CR-58666 N64-29693 21-17

INSULIN
CF HORMONE
BIOLOGICAL ACTIVITIES OF INSULIN UNDER ULTRASONIC TREATMENT N64-10798 02-16

WATER AND MINERAL METABOLIC WASTE IN INSULIN EDEMA
NASA-TT-F-9112 N64-33395 24-16

INTAKE
ENGINE INTAKE AND NOZZLE STUDIES FOR SUPERSONIC TRANSPORT APPLICATION
RAE-TRANS-1043 N64-13232 04-02

INTAKE EFFICIENCY PARAMETERS FOR SUPERSONIC COMBUSTION RAMJET ENGINE
ASRPR-TM-62-68 N64-24215 16-27

GROWTH DETERMINATION OF TURBULENT BOUNDARY LAYER ON RAMJET AIR INTAKES USING MASS ENTRAINMENT CONCEPT
REPT.-64-14 N64-32801 24-11

INTEGRAL
SA ELLIPTIC INTEGRAL
SA INTEGRAL OPERATOR
FOURIER CONVOLUTION THEOREM APPLIED TO INTEGRALS FOR TWO-ELECTRON SYSTEM ABOUT ONE OR TWO BODIES
NASA-CR-52462 N64-10443 01-23

NONLINEAR PROBLEM OF ROCKET DYNAMICS - OPTIMUM CONTROL STRUCTURE AND FIRST INTEGRALS
N64-11611 03-20

INDEFINITE INTEGRALS INVOLVING PRODUCTS OF EXPONENTIAL BESSEL FUNCTIONS
AFCRL-63-513 N64-12857 04-20

BOUNDS /MAXIMA & MINIMA/ FOR INTEGRALS APPLIED TO STATISTICAL PROBLEMS IN LIFE TESTING & RELIABILITY
ORC-63-27-/RR/ N64-14763 06-20

INTEGRAL-MOMENT METHOD OF SOLVING BOLTZMANN KINETIC EQUATION
FTD-TT-63-1033/1&2 N64-21966 15-11

ZERO FIELD SPLITTING ONE AND TWO CENTER COULOMB TYPE INTEGRALS
NASA-CR-56782 N64-25508 17-20

CONVERGENCE FACTOR OF ASYMPTOTIC METHOD FOR EXPONENTIAL INTEGRALS
DTMB-1535 N64-25691 17-20

TRUNCATION AND ROUNDOFF ERRORS, AND COMPUTATION TIME COMPARISONS OF FOUR METHODS OF ESTIMATING INTEGRALS
MRC-469 N64-27714 19-20

INTEGRAL RELATIONS METHOD APPLIED TO SUPERSONIC NONEQUILIBRIUM FLOW PAST WEDGES AND CONES
NASA-TR-R-205 N64-28011 20-11

TRANSMISSION OF ENCODED INFORMATION IN DISCRETE COMMUNICATIONS SYSTEMS
JPRS-25674 N64-28018 20-08

COMPUTATION OF SUPERSONIC FLOW PAST YAWED CONES BY METHOD OF INTEGRAL RELATIONS
AS-64-7 N64-28559 20-11

LINE & SURFACE INTEGRALS, VOLUMES, CENTROIDS OF VOLUME, AND MOMENTS OF INERTIA FOR THIN-WALLED SHELLS OF REVOLUTION
NASA-CR-89 N64-30084 21-20

TWO-CENTER INTEGRALS FOR CALCULATION OF DIATOMIC MOLECULAR STRUCTURES N64-30314 22-23

APPLICATION OF THEORY OF STRONG RIESZ LIMITS TO INTEGRALS ASSOCIATED WITH DIRICHLET SERIES FOR CARLSON NU FUNCTION OF SERIES - STRONG RIESZ SUMMABILITY OF INTEGRALS
AD-420953 N64-32035 23-20

EVALUATION OF TWO-CENTER COULOMB INTEGRALS
NASA-CR-59382 N64-33904 24-23

INTEGRAL EQUATION
SA VOLTERRA EQUATION
CF TRANSPORT THEORY
SOLUTION OF SYSTEM OF INTEGRAL EQUATIONS FROM HEAT PROBLEMS - NUMERICAL RESOLUTION AND APPLICATIONS
EUR-249.I N64-10033 01-13

NUMERICAL RESOLUTION OF INTEGRAL TRANSFER EQUATION /MILNES PROBLEM/ IN NONNEUTRON-ABSORBING MEDIUM
EUR-371.I N64-10036 01-20

PARTIAL ELLIPTICAL AND PARABOLIC DERIVATIVES AND CURVILINEAR SINGULAR INTEGRALS
JPRS-18087 N64-10497 01-20

NUMERICAL SOLUTION OF INTEGRAL TRANSFER EQUATIONS AND DETERMINATION OF MINIMUM EIGENVALUE
EUR-372.I N64-10982 02-20

INTEGRABILITY OF MOTION EQUATIONS OF PARTICLE UNDER ACTION OF NEWTONIAN FORCE & ADDITIONAL PERTURBATION FORCE N64-11426 02-20

ZEROS OF AN ENTIRE FUNCTION OF A DIFFERENCE-INTEGRAL EQUATION
MRC-414 N64-12241 03-20

ITERATIVE SOLUTION OF GOVERNING EQUATION FOR INVISCID, RADIATION RESISTED SHOCK WAVES
NASA-TN-D-2128 N64-12690 04-11

DIGITAL COMPUTER APPROXIMATION OF AUTOMATIC CONTROL PIECEWISE LINEAR SYSTEMS BY INTEGRAL EQUATIONS N64-14261 06-20

INTEGRAL EQUATIONS AND INEQUALITIES IN THEORY OF FLUIDS N64-15176 07-11

EXCEPTIONAL INTEGRAL EQUATIONS OF CONVOLUTION THEORY
FTD-TT-63-181/1&2&4 N64-16359 08-20

SINGULAR INTEGRALS IN WAVE DIFFRACTION PROBLEMS WITH SOLUTION OF PROBLEM OF SCATTERING BY DIELECTRIC WEDGE
MRC-440 N64-16621 08-23

SINGULAR SOLUTION OF INTEGRAL DIFFERENTIAL EQUATIONS IN RADIATIVE TRANSFER THEORY
RM-3575-PR N64-16790 08-20

MOMENTUM-INTEGRAL SOLUTIONS FOR LAMINAR BOUNDARY LAYER PRODUCED BY ROTATING FLOW OF VISCOUS FLUID OVER FINITE STATIONARY DISK
ATN-63/9227/-3 N64-16836 08-11

NONLINEAR INTEGRAL EQUATIONS OF RADIATIVE TRANSFER
P-2736 N64-16973 09-20

FIELD ANALYSIS BY INTEGRALS APPLIED WITH ELECTRONIC COMPUTER TO TEST FIELDS OVER SURFACE OF SPHERE
NASA-CR-53470 N64-18171 10-12

NUMERICAL INTEGRATION OF INTEGRAL EQUATION IN MIXED-BOUNDARY ELASTICITY PROBLEM - STRESS FIELD IN CYLINDER WITH PENNY-SHAPED CRACK
AD-437920 N64-20305 13-20

FORMULATION OF HUYGENS PRINCIPLE AND INTEGRAL EQUATIONS FOR ELECTROMAGNETIC WAVES AND DIFFRACTION PROBLEMS N64-20425 13-23

INTEGRAL EQUATION TRANSFORM ANALYSIS OF ONE-DIMENSIONAL WAVE MOTIONS IN POINT LATTICES
AD-439609 N64-20906 14-25

BOUNDARY & INITIAL VALUE PROBLEMS FOR SINGULAR LINEAR INTEGRO-DIFFERENTIAL EQUATIONS
M-50 N64-21436 14-20

FLUID MECHANICS - INTEGRAL EQUATIONS FOR TWO-DIMENSIONAL LATTICE GAS INTERACTION
TH-53/15 N64-21530 15-20

APPROXIMATION METHODS FOR SOLUTION OF LINEAR AND INTEGRAL EQUATIONS FOR THERMOCONDUCTIVITY AND DIRICHLET PROBLEMS
FTD-TT-63-808/1&2 N64-23688 16-23

APPROXIMATION METHOD FOR SOLUTION OF INTEGRAL EQUATIONS FOR DIRICHLET PROBLEMS
N64-23690 16-23

CONVERSION OF INTEGRAL EQUATION FOR PRESSURE DISTRIBUTION ON CIRCULAR DISC IN AXISYMMETRIC SOUND WAVE INTO SINGULAR INTEGRAL EQUATION
EM-188 N64-23878 16-23

INTEGRAL EQUATIONS FOR FLOW AND VORTEX DISTRIBUTIONS IN PROPELLER-TYPE JET NOZZLES
DVL-277 N64-24060 16-11

INTEGRAL EQUATIONS FOR THEORY OF CLASSICAL FLUIDS
TH-55116 N64-24891 17-11

SOLUTION OF SECOND ORDER DIFFERENTIAL EQUATION OF HYPERBOLIC TYPE BY REDUCTION TO SYSTEM OF INTEGRAL EQUATIONS
NASA-TT-F-8738 N64-25280 17-20

SOLUTION OF ABLATION PROBLEM - NONLINEAR INTEGRAL EQUATION
RM-4067-PR N64-25580 17-20

SINGULAR INTEGRAL EQUATION THEORY APPLIED TO LINEARIZED PROBLEM IN COUETTE FLOW DERIVED FROM KROOK STATISTICAL MODEL FOR INTERMOLECULAR COLLISIONS
RM-4027-PR N64-26498 18-11

MOMENT METHOD FOR SOLUTION OF SCHWARZSCHILD-MILNE INTEGRAL EQUATION
NASA-CR-60001 N64-27911 20-20

INTEGRAL EQUATIONS FOR PROBLEM OF IRREGULAR FUSION OF GLASSY MATERIALS N64-30418 22-13

AXISYMMETRIC EXCITATION OF CONE OF FINITE LENGTH - INTEGRAL EQUATION N64-31368 23-23

RELATIVISTIC INTEGRAL KINETIC EQUATIONS
N64-31750 23-11

INTEGRAL EQUATIONS WITH DIFFERENT KERNEL FUNCTIONS ON FINITE INTERVALS
RM-3942-PR N64-31816 23-20

MATRIX OPERATIONS, LINEAR INTEGRAL EQUATIONS THEORY, AND DIFFERENTIAL EQUATIONS FOR DYNAMIC STABILITY OF RODS AND ELASTIC SYSTEMS
TDR-169/3560-30/TR-2, VOL. 4 N64-32303 23-20

CHARACTERISTIC VALUES FROM NEW APPROACH TO PHASE INTEGRAL APPROXIMATION
AFCRL-64-638 N64-32630 23-23

INTEGRAL FUNCTION
ZERO ENERGY LOSS DIRAC-COULOMB INTEGRALS EVALUATED USING CONTOUR INTEGRATION TECHNIQUE
AD-427692 N64-13932 05-09

MULTIPLIERS OF P-INTEGRABLE FUNCTIONS IN COMPACT ABELIAN GROUP
AD-429515 N64-15750 07-20

COMPUTER EVALUATION OF INFINITE INTEGRALS OF CIRCULAR CYLINDRICAL SURFACE WITH BESSEL FUNCTIONS
DTMB-1580 N64-20341 13-20

IMPULSE NOISE INTERFERENCE IN COMMUNICATIONS CHANNELS - INTEGRAL FUNCTION DEFINITION OF STOCHASTIC PROCESS
RR-63-3 N64-30748 22-08

INTEGRAL OPERATOR
SOLUTION TO PROBLEM OF FINDING EIGENVALUES AND EIGENFUNCTIONS OF LINEAR INTEGRAL OPERATOR WITH SYMMETRIC KERNEL
FTD-MT-63-303 N64-31733 23-20

INTEGRATED CIRCUIT
INTEGRATED CIRCUITS - AMPLIFIERS, TRANSRECEIVERS & DIGITAL COMMUNICATIONS SYSTEM
AD-423906 N64-14090 05-09

BIBLIOGRAPHY ON INSTRUMENTATION AND MEASUREMENTS OF ELECTRICAL INTEGRATED CIRCUIT - DIELECTRICS
N64-14183 06-25

COMPATIBLE TECHNIQUES FOR INTEGRATED CIRCUITRY
QPR-9 N64-14633 06-09

SILICON SOLID STATE DEVICES FOR INTEGRATED CIRCUITS
AL-TDR-64-29 N64-18376 10-09

ELECTRO-OPTICS - ELECTRONIC PULSE AMPLIFIER & SEMICONDUCTOR INVESTIGATION TO EXTEND APPLICABILITY OF INTEGRATED CIRCUITS
AD-434170 N64-18844 11-09

HIGH POWER INTEGRAL CIRCUITED TETRODE
AD-426012 N64-19071 11-09

COMPATIBLE INTEGRATED CIRCUITS AND THIN FILM TECHNIQUES - APPLICATIONS TO ELECTRONIC AMPLIFIERS AND DIGITAL COMMUNICATIONS SYSTEMS
QR-10 N64-19119 11-09

LOW POWER INTEGRATED DIGITAL GATE CIRCUITS
NASA-CR-53512 N64-19980 12-09

FLIP-FLOP DESIGN, PACKAGING, AND PERFORMANCE WITH VARIATIONS OF POWER SUPPLY FOR INTEGRATED MICROPOWER CIRCUITS
NASA-CR-53511 N64-19981 12-09

FAILURE MODES IN INTEGRATED AND DISCRETE COMPONENT MICROELECTRONIC CIRCUITS N64-20997 14-09

DIRECTION FINDER SYSTEM USING INTEGRATED CIRCUITS AND ANTENNAS
REPT.-1566-9 N64-21333 14-09

SYNTHESIS OF LARGE-SCALE LOGIC FUNCTIONS ON ARRAY OF INTEGRATED MICROCIRCUITS
AFCRL-63-528 N64-22692 15-09

CONTROL OF ANTENNA RADIATION PATTERN BY INTEGRATED ANTENNA CIRCUIT DESIGN
REPT.-1566-10 N64-22955 16-09

INTEGRATED CIRCUITS - TRANSCEIVERS AND CIRCUITS FOR DIGITAL COMMUNICATION SYSTEM
AD-600961 N64-24390 17-09

SEVERE TEMPERATURE AND NUCLEAR ENVIRONMENTAL EFFECTS ON SILICON INTEGRATED CIRCUITS FOR SWITCHING AND MULTIPLEXING EQUIPMENT
USAELRDL-TR-2447 N64-25298 17-09

APPLICATION OF INTEGRATED CIRCUITS TO TELEMETRY SYSTEMS
NASA-TN-D-1905 N64-25909 18-09

TRANSMISSION-TYPE TRANSISTORS AND INTEGRATED CIRCUITS
REPT.-14 N64-26506 18-09

GEOMETRIC DESIGN AND CONFIGURATION OF MICROMODULES
AD-437877 N64-26668 18-09

DESIGN, FABRICATION, AND PACKAGING OF PULSE AMPLIFIER INTEGRATED MICROCIRCUIT
IR-11 N64-27195 19-09

THIN FILM INTEGRATED CIRCUIT STAIRCASE GENERATORS
NASA-CR-56795 N64-27270 19-09

RADIATION RESISTANCE OF THERMIONIC INTEGRATED MICROMODULES N64-28680 20-09

BRIDGING MATERIALS AND TECHNIQUES FOR RELIABLE

INTERCONNECTIONS OF THIN FILM MICROCIRCUITS AND SILICON INTEGRATED CIRCUITS
REPT.-1 N64-28961 20-09

ELECTROLYTIC PREPARATION OF HIGH DIELECTRIC THIN FILMS FOR CAPACITIVE ELEMENTS IN INTEGRATED CIRCUITRY
NASA-CR-58503 N64-29186 21-07

INDICATOR MODULE AND INTEGRATED MODULAR PROGRAMMER
MPR-8 N64-29603 21-15

THERMIONIC INTEGRATED MICROMODULE /TIMM/ - MATERIALS EVALUATED FOR OPERATION IN SEVERE MECHANICAL, THERMAL, AND RADIATION ENVIRONMENTS
AL-TDR-64-187 N64-29964 21-09

EVALUATION OF SILICON INTEGRATED CIRCUITS, THIN FILM DEVICES, AND HYBRID DEVICES FOR DIGITAL COMPUTER DESIGN
EF-3765-6 N64-30196 21-25

SEMICONDUCTOR SUBSTRATE AND ACTIVE DEVICE FOR SILICON THIN FILM INTEGRATED CIRCUIT
ISR-1 N64-30898 22-25

FABRICATION AND TESTING OF HIGH-POWER INTEGRAL CIRCUITED TETRODES
QITR-6 N64-31194 22-09

PULSE WIDTH MODULATOR FOR SILICON INTEGRATED CIRCUITS
GE/EE/63-27 N64-31275 22-09

PHYSICAL, ELECTRICAL, THERMAL, AND OPTICAL PROPERTIES OF SILICON FOR INTEGRATED CIRCUIT APPLICATIONS
ASD-TDR-63-316, VOL. V N64-31940 23-25

INTEGRATED LOGIC NETS - METAL OXIDE SEMICONDUCTING TRANSISTOR ANALYSIS
AFCRL-64-649 N64-31996 23-09

CONTINUOUS FABRICATION PROCESSES FOR INTEGRATED CIRCUITS AND PLANAR SEMICONDUCTOR DEVICES - WAFER CLEANING, OXIDATION, DIFFUSION, PHOTOMASKING, AND MEASUREMENT AND CONTROL SYSTEMS
ASD-TDR-8-133-2 N64-32191 23-17

INTEGRATED CIRCUIT DESIGN FOR LOW COST INERTIAL GUIDANCE SYSTEM - MICROMINIATURIZATION TECHNIQUES
T4-1448/32 N64-32522 23-09

SEMICONDUCTOR THIN FILMS AND INTEGRATED CIRCUITS
AD-449605 N64-32658 23-09

INTEGRATION

INTEGRATION OF FIRST-ORDER PERTURBED WAVE EQUATION FOR EXCITED STATES OF ONE-DIMENSIONAL SYSTEMS
NASA-CR-52965 N64-14897 06-20

PHASE SHIFT DEVICE AND INTEGRATION OF TRANSISTOR AMPLIFIER INTO SLOTTED AND SPIRAL ANTENNAS
REPT.-1566-7 N64-16071 07-09

FORTRAN COMPUTER PROGRAM AND TEST INTEGRATIONS OVER TRIANGLES
CERN-64-32 N64-26560 18-20

HYBRID METHODS FOR INTEGRATION OF INITIAL VALUE PROBLEMS IN ORDINARY DIFFERENTIAL EQUATIONS
REPT.-164 N64-28512 20-20

INTEGRATION OF ACTIVE ELEMENTS INTO ANTENNAS AND ANTENNA STRUCTURES
REPT.-1566-11 N64-30485 22-08

POWER SERIES INTEGRATION APPLIED TO THREE BODY PROBLEM AND ELECTRON MOTION IN MAGNETIC FIELD
NASA-TN-D-2356 N64-32638 23-20

INTEGRATOR

CF FREQUENCY MODULATION
TIME-TEMPERATURE INTEGRATOR WITH SENSING ELEMENTS OF PALLADIUM AND PLATINUM FOIL LAYERS FOR CHECKING ENGINE DETERIORATION
AD-434147 N64-22000 15-15

FRICTION IN BEARINGS AND GEAR TRAIN OF FLYWHEEL ACCELERATION INTEGRATOR
NOLTR-63-127 N64-26239 18-17

MECHANICAL INTEGRATION METHOD FOR OBTAINING TRANSVERSE MOMENTS OF INERTIA
PA-TM-1423 N64-27695 19-02

TELEVISION CAMERA TUBE FOR ASTRONOMICAL IMAGE INTEGRATION SYSTEM N64-30064 21-15

INTELLIGENCE

ADAPTIVE MEMORIES AND PATTERN RECOGNITION TECHNIQUES FOR RECONNAISSANCE
RADC-TDR-63-371 N64-14309 06-20

ARTIFICIAL INTELLIGENCE - SYSTEM FOR INSTRUCTING COMPUTER AND PROGRAMMING LANGUAGE FOR MANIPULATING SYMBOLIC EXPRESSIONS N64-17881 10-20

ARTIFICIAL INTELLIGENCE - EXAMINATION OF PHYSICAL, MATHEMATICAL, & LOGICAL MODELS OF BRAIN FUNCTION - BIBLIOGRAPHY
NASA-CR-53830 N64-19616 12-20

CRITICAL PROBLEM AREAS IN PRESENTATION OF MULTISENSOR INTELLIGENCE IMAGERY
RADC-TDR-64-160 N64-26167 18-08

AIRBORNE IMAGE SENSORS FOR INTELLIGENCE
RADC-TDR-64-181 N64-26168 18-08

NETWORK SYNTHESIS, PHASE LOCKED OSCILLATORS, AND COMPUTER PROGRAMS FOR INTELLIGENCE EFFORT
EDL-M636 N64-32550 23-09

INTENSITY

SA LIGHT INTENSITY
SA NOISE INTENSITY
SA RADIATION INTENSITY
MEASUREMENT OF INTENSITY OF SHORT SOUND SIGNAL AT PRIMARY NEURON LEVEL OF AUDITORY SYSTEM
JPRS-18659 N64-11414 02-16

MAGNETIC FIELD INTENSITY GRADIENT IN SOLAR PHOTOSPHERE
NASA-TT-F-138 N64-14405 06-12

SPECTRAL EMISSIVITIES AND INTENSITIES OF WATER 1.87 MICRON BAND
GD/A-63-1219 N64-14480 06-13

HIGH INTENSITY MUON BEAM WITH LOW PION CONTAMINATION AT THE CERN SYNCHROCYCLOTRON
CERN-63-35 N64-15616 07-23

COMPUTER PROGRAM FOR PROCESSING INTENSITY DATA COLLECTED ON SINGLE CRYSTAL ORIENTER
LA-3043 N64-19018 11-25

TWO-DIMENSIONAL PROBLEM OF RECONSTRUCTING TRUE LUMINANCE INDICATRIX FROM MEASURED SMOOTHED CURVE
NASA-TT-F-8813 N64-23123 16-20

INTENSITY AND POLARIZATION OF FORBIDDEN BANDS OF SOLAR CORONA SPECTRUM
NASA-TT-F-8930 N64-27363 19-20

SPECTRAL SLIT WIDTH OF SMALL PRISM MONOCHROMATOR FOR IMAGE INTENSITY DISTRIBUTIONS
GDA-DBE-64-054 N64-32679 23-15

INTERACTION

$ ELECTROMAGNETIC INTERACTION
$ ELECTRON INTERACTION
$ ELECTRON PHONON INTERACTION
$ GAS-ION INTERACTION
$ GAS-LIQUID INTERACTION
$ GAS-METAL INTERACTION
$ HIGH ENERGY INTERACTION
$ ION-ATOM INTERACTION
$ MESON-NUCLEON INTERACTION
$ MOLECULAR INTERACTION
$ NUCLEAR INTERACTION
$ PLASMA PARTICLE INTERACTION
$ SHOCK WAVE INTERACTION
$ SPIN ORBIT INTERACTION

INTERCEPTION

DIGITAL SIMULATION PROGRAM FOR STUDYING BOOST,

MIDCOURSE, & HONING PHASE OF TARGET INTERCEPTION BY INTERCEPTOR USING PROPORTIONAL NAVIGATION
SSD-TDR-64-7 N64-17615 09-01

INTERCEPTOR
CONCEPTUAL DESIGN OF MANNED ORBITAL INSPECTION SYSTEM - ANTISATELLITE DEFENSE N64-15266 07-32

COMPUTER PROGRAMMING OF OPTIMUM VEHICLE TRAJECTORY FOR INTERCEPTION OF ORBITING TARGET
SSD-TDR-63-402, VOL. 2 N64-17336 09-20

CIRCULAR AND ELLIPTICAL TARGET ORBITS FOR MULTIPLE FLYBY INTERCEPTOR VEHICLES
TDR-269/4130-13/-1 N64-31055 22-29

INTERCONTINENTAL BALLISTIC MISSILE /ICBM/
SA ATLAS ICBM
SA MINUTEMAN ICBM
PRELIMINARY ORBITAL ELEMENTS OF SATELLITES AND INTERCONTINENTAL BALLISTIC MISSILES N64-27205 19-29

INTERFACE
POTENTIAL DISTRIBUTION OF POINT SOURCE FIELD IN PRESENCE OF TWO INTERFACES BETWEEN THREE HORIZONTAL LAYERS - GEOLOGICAL SURVEY N64-11495 03-23

EFFECT OF INTERFACIAL BONDING ON STRENGTH OF TWO-PHASE SYSTEM CONSISTING OF TUNGSTEN IN GLASSY MATRIX
UCRL-11011 N64-11583 03-19

RAYLEIGH WAVE ANALYSIS OF PARTICLE MOTION IN SOLID-LIQUID INTERFACE N64-12408 04-11

INTERFERENCE PROPERTIES OF PHOTONS
AFCRL-63-788 N64-13665 05-23

PROPAGATION OF SPHERICAL SHOCK WAVE THROUGH ALUMINUM-GLASS INTERFACE N64-16261 08-23

RESISTANCE OF MASS TRANSFER AT INTERFACE OF FLOWING GAS & LIQUID AND MECHANISM OF PRODUCTION N64-16912 09-11

EFFECTS OF WAVE ULTRASONIC PROPAGATION IN LIQUID-LIQUID INTERFACES ON ATTENUATION AND BOUNDARY WAVES
HW-78701 N64-17701 09-23

EFFECT OF MODIFYING GAS-ELECTROLYTE INTERFACE BY PULSES ON FUEL CELL PERFORMANCE
NASA-CR-54031 N64-19223 11-06

HYDROSTATIC STABILITY OF LIQUID-VAPOR INTERFACE IN CYLINDER
NASA-TN-D-2267 N64-19723 12-11

STOCHASTIC MODEL FOR DETERMINING INTERFACE TEMPERATURES OF SOLIDS IN SLIDING CONTACT
RTD-TDR-63-4184 N64-21179 14-13

SCATTERING OF ELECTROMAGNETIC WAVES BY IRREGULAR INTERFACES
AFOSR-64-0802 N64-21239 14-23

INTERFACE STABILITY OF COMPRESSIBLE GAS FLOW OVER LIQUID LAYER
SUDAER-172 N64-22212 15-11

CONDUCTIVE HEAT TRANSFER AT INTERFACE OF TWO METALS IN VACUUM
AIAA PAPER-64-253 N64-23610 16-13

ELECTRICAL PHENOMENA AT ICE/WATER INTERFACE
TR-1 N64-25778 17-09

EFFECT OF SMALL IRREGULARITIES ON ELECTROMAGNETIC SCATTERING FROM INTERFACE OF ARBITRARY SHAPE
NYR-3503 N64-26524 18-23

FAILURE MECHANISMS AT METAL-DIELECTRIC INTERFACES
RADC-TDR-64-138 N64-26918 18-25

HYDROSTATIC STABILITY OF LIQUID-VAPOR INTERFACE IN LOW-ACCELERATION FIELD
NASA TN D-2444 N64-27124 19-11

TIME RESPONSE OF LIQUID-VAPOR INTERFACE AFTER ENTERING WEIGHTLESSNESS
NASA-TN-D-2458 N64-27759 19-11

EFFECT OF SURFACE STATES AND PHOTOVOLTAIC EFFECT ON OXIDE-SEMICONDUCTOR INTERFACE N64-29165 21-06

ELECTRONIC AND MECHANICAL INTERFACE PROBLEMS ASSOCIATED WITH SYSTEM INTEGRATION AND GROUND SUPPORT OF AN/TSQ-47 AIR TRAFFIC CONTROL SYSTEM
ESD-TDR-64-199 N64-29374 21-10

REFLECTION AND TRANSMISSION COEFFICIENTS FOR SOLIDS IN CONTACT WITH ICE AT PLANE INTERFACES
CRREL-110 N64-30177 21-25

SURFACE WAVE PROPAGATION ALONG INTERFACE BETWEEN FLUID AND ELASTIC SOLID - TRANSMISSION AND RADIATION OF SURFACE WAVE ENERGY BY WEDGE-SHAPED DISCONTINUITY
TR-5 N64-30738 22-23

HEAT SHIELD/STRUCTURE INTERFACE PROBLEMS PRODUCED BY ENVIRONMENT ASSOCIATED WITH APOLLO LUNAR FLIGHT
LMSC-5-10-63-17 N64-32343 23-13

INTERFERENCE
SA ELECTROMAGNETIC COMPATIBILITY
SA RADIO INTERFERENCE
ANNOTATED BIBLIOGRAPHY OF RADIO FREQUENCY INTERFERENCE TESTING
SB-63-48 N64-11540 03-08

ANTENNA COUPLING - FACTOR INTERFERENCE PREDICTION
ITR-7 N64-17895 10-08

ANALOG COMPUTER SIMULATION OF EFFECT ON AUTOMATIC LANDING SYSTEM PERFORMANCE OF OVERFLIGHT INTERFERENCE WITH LOCALIZER N64-19166 11-10

INTERFERENCE REDUCTION TECHNIQUES FOR NONLINEAR DEVICES
ER-13171-2 N64-21625 15-08

SIGNAL OUTPUT DETECTION OF OFF-TUNED PULSED INTERFERENCE N64-22813 16-09

SIGNAL EMISSION CHARACTERISTICS RELATED TO SEARCH AND TRACKING RADAR INTERFERENCE PREDICTION MODELS N64-22819 16-09

ADVANCED RECEIVER MODEL SYSTEM FOR HANDLING COMPLEX INTERFERENCE PROBLEMS WITH FAST REACTION TIME N64-22821 16-09

REDUCTION OR ELIMINATION OF INTERFERENCE DUE TO HARMONIC FREQUENCY RADIATION FROM HIGH POWER TRANSMITTERS N64-22823 16-09

TRACKING NOTCH FILTER FOR REJECTION OF CONTINUOUS WAVE INTERFERENCE N64-22826 16-09

ANALYSIS OF AIRBORNE RADIO FREQUENCY INTERFERENCE N64-22828 16-09

PROBABILITY DENSITY FUNCTION FOR INTERFERENCE FROM RANDOMLY DISTRIBUTED SOURCES N64-22830 16-09

INTERFERENCE FACILITY FOR ELECTROMAGNETIC COMPATIBILITY TESTING N64-22831 16-09

SHIELDING FLIGHT VEHICLE AGAINST ELECTROMAGNETIC INTERFERENCE DURING TEST N64-22841 16-09

EVALUATION, TEST, AND CALIBRATION OF INFRARED INTERFERENCE SPECTROMETER
NASA-CR-61 N64-23344 16-15

ELECTRICAL SIGNATURES OF RADAR INTERFERENCE
ESD-TDR-64-240 N64-24869 17-09

GEOPHYSICAL STUDIES DURING INTERNATIONAL QUIET SUN YEARS - METEOROLOGY, GEOMAGNETISM, IONOSPHERE, AURORA, RADIO ASTRONOMY, AND COSMIC RADIATION
ELECTRONIC EQUIPMENT INTERFERENCE CHARACTERISTICS N64-24870 17-05

ELECTRONIC EQUIPMENT INTERFERENCE CHARACTERISTICS
REPT.-25 N64-24871 17-09

FLOW AND INTERFERENCE EFFECTS OF BODY OF REVOLUTION AND ITS STABILIZING SURFACES
TM-510-2481-03 N64-25674 17-02

STATIC AERODYNAMIC CHARACTERISTICS, STABILITY DERIVATIVES, & INTERFERENCE FOR DUCTED PROPELLERS
VIDYA-112 N64-25790 17-03

SUPERSONIC WIND TUNNEL TESTS ON INTERFERENCE EFFECTS BETWEEN INTAKE FLOWS IN FOUR ENGINE NACELLE
ARC-CP-753 N64-28771 20-02

INTERFERENCE-SUPPRESSING POWER CONDUCTOR
R-275 N64-28901 20-08

ELECTRON WAVE INTERFERENCE AND ELECTRON INTERFEROMETERS N64-29071 21-23

ELECTROMAGNETIC INTERFERENCE BY RADIATION AND CONDUCTION IN DIGITAL COMPUTERS
NASA-CR-58235 N64-29192 21-08

PRINCIPLES OF OPERATION AND CONSTRUCTION OF SUBMILLIMETER INTERFERENCE SPECTROMETER
NASA-CR-56839 N64-29193 21-15

RADAR SIGNATURES OF INTERFERING TARGETS AND TWO CIRCUITS TO COMBAT INTERFERENCE
ESD-TDR-64-252 N64-30178 21-15

INTERFERENCE EFFECTS PRODUCED IN PULSE ALTIMETER BY SIGNAL COUPLING WITH FM ALTIMETER N64-30368 22-15

IMPULSE NOISE INTERFERENCE IN COMMUNICATIONS CHANNELS - INTEGRAL FUNCTION DEFINITION OF STOCHASTIC PROCESS
RR-63-3 N64-30748 22-08

FOURIER ANALYSIS OF INTERFERENCE LINES FROM CRYSTAL LATTICE MICRODISPLACEMENT N64-32847 24-25

ANALYSIS OF OPTICAL INTERFERENCE FILTER CONSTRUCTED IN WAVEGUIDE MEDIUM
NASA-CR-59160 N64-33178 24-23

NON-CHOPPING RIOMETER WITH CONTINUOUS WAVE & PULSE INTERFERENCE REJECTION CIRCUITS
AD-446633 N64-33502 24-15

ELECTROMAGNETIC WAVE COMPATIBILITY & EFFICIENCY OF FREQUENCY ASSIGNMENT PLAN FOR LIMITING SPURIOUS INTERFERENCE
USAELRDL-TR-2377 N64-33527 24-08

ABNORMAL CHARACTERISTICS OF INTERFERENCE FILTERS FOR USE AS STANDARDS IN WAVELENGTH CALIBRATION OF SPECTROPHOTOMETERS
NAVWEPS-8550 N64-33753 24-15

INTERFERENCE PARAMETERS OF RADAR SYSTEMS
REPT.-1 N64-33848 24-08

INTERFEROMETER
SA FABRY-PEROT INTERFEROMETER
SA MACH-ZEHNDER INTERFEROMETER
SA MICHELSON INTERFEROMETER
SA MICROWAVE INTERFEROMETER
SA RADIO INTERFEROMETER
CF OPTICAL INSTRUMENT
INTERFERENCE SEPARATION MIRRORS WITH LOW AND HIGH ALTERNATING REFRACTIVE INDICES IN FLUORESCENT MICROSCOPY
JPRS-19786 N64-11130 02-15

ALL-SKY INTERFEROMETER FOR AIRGLOW STRUCTURAL STUDIES N64-17007 09-15

RADIOMETRY IN SUBMILLIMETER REGION USING INTERFEROMETRIC MODULATOR N64-19254 11-15

SINGLE PLANE PARALLEL PLATE AS LATERAL SHEARING INTERFEROMETER WITH VISIBLE HELIUM-NEON GAS LASER N64-19490 12-23

BETATRON, CONVERTER CAMERA, LASER INTERFEROMETER, AND SHOCK TUBE FACILITY FOR PLASMA PARTICLE ACCELERATION STUDY
AFCRL-64-412 N64-21709 15-24

OPTICAL INTERFEROMETER FOR DIRECTION MEASUREMENTS
FRR-AN-050 N64-23417 16-15

INTERFEROMETER FOR CONTROLLING ASPHERIC SURFACES OF ROTATION N64-24551 17-15

MILLSTONE-LEXINGTON RADAR INTERFEROMETER STATION WITH RADAR TRANSMITTER, ANTENNA, AND RECEIVER
ESD-TDR-63-566 N64-25602 17-09

RADIAL SHEARING INTERFEROMETER BASED ON LAW OF REFRACTION N64-26408 18-23

METEOROLOGICAL PHENOMENA AND RELATION TO ERRORS IN RADIO INTERFEROMETER TRACKING SYSTEMS
CRL-2818-1, PT. 2 N64-27478 19-08

ELECTRON WAVE INTERFERENCE AND ELECTRON INTERFEROMETERS N64-29071 21-23

LENGTH-MEASURING INTERFEROMETER USING CONTINUOUS GAS LASER LIGHT SOURCE
Y-1466 N64-29624 21-15

RAY TRACING OF REFRACTIVE ERRORS ON INTERFEROGRAMS OF CYLINDRICAL AND PLANAR DISTURBANCES
BRL-1251 N64-32033 23-15

INTERFERENCE POLARIMETER MEASUREMENTS OF POSSIBLE DISPLACEMENT OF JUPITER MAGNETIC DIPOLE
AD-444166 N64-33458 24-05

MISSILE TRACKING BY CONTINUOUS WAVE REFLECTION - DOPPLER AND INTERFEROMETER SYSTEMS
USA-ERDA-116 N64-33466 24-08

RIGHT ASCENSION OF RADIO SOURCES MEASURED BY STEERABLE PARABOLOID ANTENNAS USED AS INTERFEROMETERS
AD-444164 N64-33606 24-08

INTERFEROMETRY
CF OPTICS
PHOTOGRAPHIC INTERFEROMETRIC MEASUREMENT OF DAY AIRGLOW EMISSION OF ATOMIC OXYGEN
AFCRL-64-220 N64-16073 07-12

INTERFEROMETRIC ANALYSIS OF AXISYMMETRIC PLASMA FLOW
BRL-1222 N64-17853 10-24

INTERFEROMETRIC MEASUREMENT OF INDEX OF REFRACTION OF CRYSTALLINE MATERIALS
AFCRL-64-175 N64-20088 13-15

INTERFEROMETRY FOR AEROSPACE VEHICLE DETECTION AND SATELLITE RECOGNITION N64-23011 16-15

VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE, SOLAR SPECTROMETRY, AND INTERFEROMETRIC INVESTIGATION OF CELESTIAL SPECTRA
AFCRL-64-569 N64-27081 19-12

MAXIMUM OPTICAL PATH DIFFERENCE AND BACKGROUND NOISE EFFECT ON INTERFEROMETRIC SPECTROSCOPY
E-T-G-63-22 N64-28090 20-23

TWO BEAM INTERFEROMETRIC INSTRUMENTATION FOR FAR INFRARED STUDIES - PERIODIC OPERATING LAMELLAR GRATING AND MICHELSON INTERFEROMETER N64-29478 21-23

FAR INFRARED HIGH RESOLUTION FOURIER TRANSFORM INTERFEROMETRY N64-29480 21-23

RELATIONSHIP BETWEEN SOLAR NOISE STORM IN VERY HIGH FREQUENCY BAND AND SOLAR FLARE - INTERFEROMETRY N64-30273 22-20

MULTIPLE BEAM INTERFEROMETER MEASUREMENT OF EVAPORATED THIN FILM THICKNESS
TR-2433 N64-30577 22-15

REFRACTIVE INDEX VARIATIONS IN RUBY - BEAM DIVERGENCE AND INTERFEROMETRY N64-30779 22-25

INTERMETALLICS
SA ALLOY
CF SEMICONDUCTOR
NUCLEAR MAGNETIC RESONANCE IN TRANSITION METAL-ALUMINUM INTERMETALLIC COMPOUNDS
AD-423292 N64-12986 04-18

HIGH DUCTILITY IN INTERMETALLIC NICKEL-TITANIUM COMPOUND AND NICKEL-RICH ALLOYS
N64-15104 07-18

PROPERTIES AND APPLICATIONS OF INTERMETALLIC THIN FILMS OF INDIUM ANTIMONIDE IN HALL EFFECT DEVICES
N64-15115 07-25

EFFECTS OF BASIC PHYSICAL PARAMETERS ON ENGINEERING PROPERTIES OF INTERMETALLICS
WADD-TR-60-184, PT. 5 N64-19114 11-18

NONDESTRUCTIVE TESTING OF CERAMIC AND INTERMETALLIC PROTECTIVE COATINGS FOR REFRACTORY METALS
WADD-TR-61-91, PT. IV N64-22562 15-17

SUPERCONDUCTIVE INTERMETALLIC COMPOUNDS
REPT.-64-RL-3540M N64-23017 16-18

INTERMETALLIC COMPOUNDS IN MAGNESIUM ALLOYS CONTAINING ALUMINUM AND ZIRCONIUM
BM-RI-6498 N64-28248 20-18

EFFECTS OF IRON AND ALUMINUM ION DISTRIBUTION ON PROPERTIES OF INTERMETALLIC OXIDE CRYSTALS
QTSR-2 N64-32454 23-25

INTERNAL COMBUSTION ENGINE
CF HEAT ENGINE
INTERNAL COMBUSTION ENGINE FUEL FILTRATION PROCESSES & MATERIALS, AND METHODS FOR DIESEL APPLICATION
JPRS-17826 N64-10724 02-26

AIR SWIRL & FUEL SPRAY CHARACTERISTICS FOR OPTIMUM PERFORMANCE OF STRATIFIED CHARGE ENGINE
AD-435855 N64-20098 13-27

INTAKE INDUCED AIR SWIRL OF STRATIFIED CHARGE ENGINE
TR-1 N64-20128 13-27

VORTEX FLOW MULTIFUEL OPERATION OF HIGH-SPEED, TWO-STROKE, LOOP-SCAVENGED, AIR-COOLED, COMPRESSION-IGNITION COMBUSTION CHAMBER
AD-424504 N64-20157 13-26

MEASUREMENT OF QUICKLY-CHANGEABLE PRESSURES IN INTERNAL COMBUSTION ENGINE - CHARACTERISTICS OF ELECTRIC PRESSURE ABSORBERS UNDER STATIC LOAD
DFL-194 N64-21706 15-27

PETROLEUM ADDITIVES - EFFECTIVE MEANS TO INCREASE POWER AND REDUCE WEAR IN INTERNAL COMBUSTION ENGINES
FTD-TT-62-1931/1&2&4 N64-22642 15-07

STARTING TECHNIQUES FOR INTERNAL COMBUSTION ENGINES ON TRANSPORTATION AND CONSTRUCTION EQUIPMENT IN POLAR REGIONS
Y-F015-11-01-291 N64-27072 19-06

HYDROGEN OXYGEN FUELED 3-KILOWATT INTERNAL COMBUSTION ENGINE
AIAA PAPER-64-756 N64-28410 20-06

INTERNAL COMBUSTION ENGINES - GAS FLOW AND FLAME STABILITY AFTER SPARK IGNITION
FTD-MT-64-03 N64-31755 23-27

INTERNAL CONVERSION COEFFICIENT
K-SHELL INTERNAL CONVERSION COEFFICIENT OF 344-KEV E2 TRANSITION IN GADOLINIUM 152
IS-590 N64-14426 06-23

INTERNAL FRICTION
DIFFUSION & SOLUBILITY OF NITROGEN IN CHROMIUM BY INTERNAL FRICTION MEASUREMENTS
ARL-64-88 N64-29806 21-18

ELLIPTICAL RADIATION FURNACE APPARATUS FOR DETERMINATION OF DYNAMIC YOUNG MODULUS AND INTERNAL FRICTION UTILIZING TRANSVERSE FREE VIBRATION IN VACUUM
DMS-63-17 N64-31690 23-25

HIGH FREQUENCY INTERNAL FRICTION MEASUREMENTS OF HYDROGEN AND CARBON MOVEMENTS IN STEEL
D6-9586TN N64-33442 24-18

INTERNAL PRESSURE
EXTERNAL AND INTERNAL PRESSURES OF CIRCULAR CYLINDER COMPOSED OF FOUR ANVILS
Y-1449 N64-11792 03-23

INTERNAL PRESSURE EFFECT ON HOLLOW HELICAL SPRINGS
A238 N64-13248 04-34

STRESSES IN THIN SHELLS UNDER INTERNAL PRESSURE
SSD-TDR-63-367 N64-17516 09-33

RUPTURE SURFACES OF THICK SPHERICAL SHELLS UNDER INTERNAL PRESSURE
DI-82-0336 N64-25886 18-33

STABILITY OF INTERNAL PRESSURIZED CONICAL SHELL UNDER TORSION
SSD-TDR-64-14 N64-26183 18-33

INTERNAL BLAST WAVES IN SPHERES
QPR-10 N64-32247 23-23

CONTROL OF GAS PRESSURE BUILDUP IN THERMOELECTRIC SNAP GENERATORS
MND-3143-1 N64-32932 24-06

STABILITY BEHAVIOR OF THIN WALLED CIRCULAR CYLINDRICAL SHELLS UNDER AXIAL LOAD AND INTERNAL PRESSURE BY APPLYING NONLINEAR SHELL EQUATIONS
NOR-64-80 N64-33463 24-33

DYNAMIC LOAD AND INTERNAL PRESSURE IN ROCKET LAUNCHER FIRING TESTS
NAVWEPS-8501 N64-33721 24-10

INTERNATIONAL COOPERATION
USSR ASTRONOMICAL RESEARCH - ORGANIZATIONS, PUBLICATIONS, AND INTERNATIONAL PROGRAMS
JPRS-23658 N64-17243 09-05

FACILITIES AND SERVICES FOR INTERNATIONAL AIR NAVIGATION IN SOUTHEAST ASIA REGION - ICAO
N64-17259 09-10

SPACE LAW AND COMMUNICATIONS SATELLITES, FREE SPACE LOWER BOUNDARY, CONTROL OF SPACE, ORBITAL REGULATION, AND INTERNATIONAL COOPERATION
NASA-SP-44 N64-21136 14-01

CAPACITY OF ORGANIZATIONS OF INTERNATIONAL COOPERATION TO DEVELOP AND EXERT INFLUENCE IN FIELD OF SPACE LAW N64-21140 14-01

AGREEMENT FOR ESRO I AND ESRO II SATELLITES BETWEEN NASA AND EUROPEAN SPACE RESEARCH ORGANIZATION /ESRO/ N64-25292 17-32

NASA ACHIEVEMENTS & INTERNATIONAL COOPERATION IN SPACE N64-29494 21-01

SUMMARY REPORT TO CONGRESS ON NASA PROGRAMS - DATA ACQUISITION, MANNED SPACE FLIGHT, NUCLEAR POWER & PROPULSION, SATELLITE APPLICATIONS, TRACKING, AND INTERNATIONAL COOPERATION N64-29539 21-01

INTERNATIONAL COOPERATION ON TEST EQUIPMENT, INSTRUMENTATION, POWER SUPPLY, AND ANALYSIS FOR PROGRAM ON TWO-PHASE FLOW
GEAP-4367 N64-29622 21-11

SPACE LAW AND INTERNATIONAL COOPERATION
NASA-RP-308 N64-30764 22-01

SPACE EXPLORATION, USA AND USSR SPACE PROGRAMS, MILITARY APPLICATIONS, AND INTERNATIONAL LAW AND COOPERATION
AD-602915 N64-33342 24-01

INTERNATIONAL GEOPHYSICAL YEAR /IGY/
INTERNATIONAL GEOPHYSICAL YEAR BIBLIOGRAPHY OF LITERATURE PUBLISHED IN RUSSIAN N64-10115 01-12

ATMOSPHERIC OBSERVATIONS AND TURBULENCE DURING IGY JPRS-19275 N64-10817 02-12

INTERNATIONAL GEOPHYSICAL YEAR PAPERS ON SEISMOLOGY, TECTONIC MOVEMENTS, AND GRAVITY AID-T-64-8 N64-16451 08-12

AURORAS AND AIRGLOW EMISSIONS DURING INTERNATIONAL GEOPHYSICAL YEAR NASA-TT-F-117 N64-17774 09-12

INDEX OF FLARES FOR INTERNATIONAL GEOPHYSICAL YEAR IGY SOLAR ACT. REPT. SER.-25 N64-18000 10-28

INTERNATIONAL GEOPHYSICAL YEAR /IGY/ SOLAR ACTIVITY OBSERVATIONS - SOLAR PROMINENCE DATA FOR 1963 N64-19248 11-29

COLLECTION OF DATA FOR INTERNATIONAL GEOPHYSICAL YEAR DURING PERIOD 1 JAN - 30 JUN 1963 IGY GEN. REPT.-20 N64-21756 15-12

GLACIOLOGY - DATA FROM INTERNATIONAL GEOPHYSICAL YEAR PROGRAM N64-23917 16-12

YELLOW CORONAL LINE OBSERVATION DURING INTERNATIONAL GEOPHYSICAL YEAR IGY SOLAR ACT. REPT. SER.-27 N64-27077 19-28

INTERNATIONAL PRACTICAL TEMPERATURE SCALE /IPTS/
INTERNATIONAL PRACTICAL TEMPERATURE SCALE FOR TEMPERATURE MEASUREMENTS BELOW 1000-DEG K USING PLATINUM RESISTANCE THERMOMETERS N64-10939 02-13

INTERNATIONAL QUIET SUN YEAR /IQSY/
RESEARCH ON CLOUD STRUCTURE - INTERNATIONAL QUIET SUN YEAR SCIENTIFIC TASK N64-10762 02-21

WORLD DAYS PROGRAM FOR INTERNATIONAL YEAR OF QUIET SUN - INSTRUCTION MANUAL N64-15295 07-12

INTERNATIONAL QUIET SUN YEAR /IQSY/ - PROGRAMS OF PARTICIPATING COUNTRIES N64-15775 07-28

INTERNATIONAL QUIET SUN YEAR /IQSY/ - PLANNING, INSTRUMENT MANUALS, NEUTRON MONITOR SPECIFICATION, AND RECOMMENDATIONS FOR DATA READOUT AECL-1885 N64-19044 11-15

GEOPHYSICAL STUDIES DURING INTERNATIONAL QUIET SUN YEARS - METEOROLOGY, GEOMAGNETISM, IONOSPHERE, AURORA, RADIO ASTRONOMY, AND COSMIC RADIATION ELECTRONIC EQUIPMENT INTERFERENCE CHARACTERISTICS N64-24870 17-05

MAGNETIC OBSERVATORIES FOR USE DURING INTERNATIONAL QUIET SUN YEAR /IQSY/ NASA-TM-X-55017 N64-27257 19-12

INTERPLANETARY FLIGHT
ENGINEERING PROBLEMS OF MANNED INTERPLANETARY EXPLORATION N64-10040 01-01

KNOWN AND UNKNOWN INFORMATION ON MANNED PLANETARY FLIGHT N64-10041 01-32

ATMOSPHERIC REENTRY PROBLEMS OF MANNED INTERPLANETARY FLIGHT N64-10043 01-32

LUNATRON CONCEPT - UTILIZATION OF MOON IN SPACE TRANSPORTATION N64-10045 01-32

ELECTRIC PROPULSION FOR MANNED INTERPLANETARY MISSION - DELIVERY AND RETURN OF LARGE PAYLOADS N64-10046 01-27

BENEFITS OF ELECTRIC PROPULSION SYSTEMS FOR LUNAR AND INTERPLANETARY FLIGHT NASA-RP-42 N64-10287 01-27

INTERPLANETARY FLIGHT BY SPACE PROBE - MARS-I SPACECRAFT N64-10776 02-29

THRUST-TO-WEIGHT RATIOS AND SPECIFIC IMPULSES ON TRAJECTORY PARAMETERS FOR INTERPLANETARY MISSIONS NASA-TM-X-51104 N64-11300 02-21

THRUST-WEIGHT RATIO AND SPECIFIC IMPULSE EFFECT ON TRAJECTORY PARAMETERS & TRAJECTORY REQUIREMENTS FOR INTERPLANETARY MISSIONS NASA-TN-D-1829 N64-13054 04-21

OPTIMUM-THRUST EQUATIONS FOR VARIABLE & CONSTANT THRUST TO GENERATE RENDEZVOUS TRAJECTORIES FOR EARTH-MARS FLIGHTS NASA-CR-53030 N64-13404 04-29

PRODUCTION OF INTENSE RADIATION HEAT PULSES SURROUNDING BODIES AT REENTRY VELOCITIES TYPICAL OF INTERPLANETARY FLIGHTS NASA CR-55321 N64-13915 05-30

MAPS FOR OBTAINING DEPARTURE AND ARRIVAL SPEEDS FOR TRIPS TO MARS AND VENUS - CONSTANTS & PLANETARY EPHEMERIDES NASA-SP-35, PT. 1 N64-14175 06-29

TRAJECTORY DATA FOR SCHEDULING FLIGHTS TO VENUS AND MARS, 1960-2000 NASA-SP-35, PT. 2 N64-14176 06-29

TRAJECTORY DATA FOR SCHEDULING FLIGHTS FROM VENUS AND MARS TO EARTH, 1960-2000 NASA-SP-35, PT. 3 N64-14177 06-29

LUNAR, PLANETARY, & INTERPLANETARY SPACE PROGRAMS NASA-CR-53069 N64-15791 07-32

INTERPLANETARY FLIGHT COMMUNICATION SYSTEMS N64-16182 08-01

ANALYTIC SOLUTION OF EQUATIONS OF MOTION OF MIDCOURSE PHASE INTERPLANETARY FLIGHT NASA-CR-53469 N64-18170 10-29

STARTING INTERPLANETARY FLIGHT WITH TURBOJET ENGINE AND DECELERATION AT REENTRY WITH ROTOR FTD-MT-63-224 N64-18764 11-30

ELECTROSTATIC THRUSTORS FOR INTERPLANETARY FLIGHT PROPULSION NASA-TN-D-2172 N64-19477 12-27

PROTON FLUXES ALONG LOW ACCELERATION TRAJECTORIES THROUGH VAN ALLEN BELT - RADIATION HAZARD FOR MANNED INTERPLANETARY SPACE FLIGHTS NASA-RP-193 N64-21281 14-29

FLIGHT CONDITIONS FROM EARTH TO MARS FTD-TT-63-93/1&2&4 N64-21659 15-29

MANNED INTERPLANETARY MISSIONS N64-26980 19-29

FLYBY MISSIONS TO VENUS AND MARS N64-26981 19-29

SUBSYSTEMS FOR MARS MISSION MODULE N64-26988 19-29

ANALYTIC SOLUTION TO ELLIPTICAL MOTION EQUATIONS FOR TRAJECTORY CALCULATIONS OF SPACE VEHICLE IN MIDCOURSE PHASE OF INTERPLANETARY FLIGHT AIAA PAPER-64-398 N64-27326 19-29

APPLICATION OF CONTINUOUS AND DISCRETE STRATEGIES OF MINIMUM EFFORT THEORY TO GUIDANCE OF INTERPLANETARY FLIGHT AIAA PAPER-64-664 N64-27651 19-29

MIDCOURSE GUIDANCE ANALYSIS FOR INTERPLANETARY FLIGHT NASA-CR-56895 N64-27871 20-29

INTERPLANETARY EXPLORATION USING EXPLORER SATELLITES NASA FACTS, VOL. II, NO. I N64-28711 20-32

ADVANCED PROPULSION SYSTEMS FOR INTERPLANETARY FLIGHTS NASA-TM-X-51888 N64-28996 20-27

EXTRATERRESTRIAL ENVIRONMENTS, VEHICLE SYSTEMS FOR

INTERPLANETARY FLIGHT, LANDING PROPULSION SYSTEMS, LUNAR LANDING IMPACT DEVICES, AND PROPELLANT STORAGE
NASA-CR-58035 N64-29187 21-29

MAGNETIC FIELD AS PROTECTIVE SHIELD FROM COSMIC RAY SHOWERS IN INTERPLANETARY SPACEFLIGHT
FTD-TT-63-760/1&2 N64-29587 21-34

UNMANNED INTERPLANETARY FLIGHT - ENGINEERING PROBLEMS OF MARINER II SPACE PROBE
N64-30337 22-29

CARRIER ROCKETS, INTERPLANETARY FLIGHTS, LIFE SUPPORT, MANNED SPACE FLIGHT, AND SPACE ENVIRONMENT HAZARDS
FTD-MT-64-227 N64-31774 23-29

RUSSIAN SPACE ACHIEVEMENTS AND FUTURE INTERPLANETARY FLIGHTS
FTD-TT-63-210/1&2 N64-32398 23-32

INTERPLANETARY NAVIGATION
CF SPACE NAVIGATION
PSEUDO-DIURNAL TRANSIT TECHNIQUE OF SPACE NAVIGATION IN INTERPLANETARY MIDCOURSE - CELESTIAL MECHANICS
NASA-CR-56288 N64-22473 15-22

SIMPLIFIED MODEL FOR POSITION DETERMINATION USING OPTICAL FIX DATA - GUIDANCE IN INTERPLANETARY NAVIGATION BY MANUAL CALCULATION
AD-602264 N64-32068 23-22

INTERPLANETARY SPACE
NEUTRAL HYDROGEN IN EARTH ATMOSPHERE AND INTERPLANETARY SPACE
JPRS-22331 N64-11785 03-12

WATER EXCHANGE BETWEEN EARTH & INTERPLANETARY SPACE
FTD-TT-63-841/1 N64-12619 04-12

INTERPLANETARY & INTERSTELLAR SPACE EXPLORATION - TECHNICAL ASPECTS OF INTERPLANETARY FLIGHT
N64-12911 04-29

DETECTOR-ANALYZER FOR STUDYING PROTON AND ION ENERGY DISTRIBUTION IN INTERPLANETARY SPACE AT SATELLITE ALTITUDES
NASA-TN-D-2111 N64-14727 06-24

SHOCK WAVES IN INTERPLANETARY PLASMA
NASA-CR-53364 N64-17817 09-28

ANNOTATED BIBLIOGRAPHY ON EXTRATERRESTRIAL MATTER IN INTERPLANETARY SPACE
REPT. 9990-6649-KU-000 N64-20475 13-05

PROBE FOR MEASURING ENERGY DISTRIBUTIONS OF IONS IN INTERPLANETARY SPACE & AT SATELLITE ALTITUDES
NASA-TM-X-51042 N64-20584 13-28

SELF-CONTAINED OPTICAL SYSTEM FOR POSITION DETERMINATION IN INTERPLANETARY SPACE
NASA-CR-53989 N64-20586 13-22

IONIZED GAS AND FAST ELECTRONS NEAR EARTH AND IN INTERPLANETARY SPACE
FTD-TT-63-69/1&2 N64-22340 15-28

EXPERIMENTAL DATA ON EARTH, MOON, AND INTERPLANETARY MAGNETIC FIELDS
NASA-TT-F-8562 N64-22930 16-28

LONG-LIVED SOLAR STREAMS IN INTERPLANETARY SPACE
NASA-TM-X-55029 N64-23928 16-28

DATA PROCESSING OF INTERPLANETARY ERROR PROPAGATION INFORMATION
NDL-TR-2185, ADDEND. 1 N64-26285 18-20

VAPOR CYCLE COOLANT REQUIREMENTS FOR NUCLEAR POWER PLANTS IN INTERPLANETARY SPACE TRAVEL
ANL-6857 N64-32853 24-06

COLLISIONLESS MAGNETOHYDRODYNAMIC SHOCK IN INTERPLANETARY SPACE
NASA-RP-362 N64-33992 24-24

INTERPLANETARY SPACECRAFT
ELECTRIC PROPULSION FOR MANNED INTERPLANETARY VEHICLE
N64-24856 17-27

OPTIMIZING RECOVERY OF INTERPLANETARY SPACECRAFT THROUGH EARTH ATMOSPHERE
VKI-TN-17 N64-25796 17-30

GUIDANCE OF INTERPLANETARY SPACECRAFT UNDER LONG PERIODS OF LOW THRUST PROPULSION
NASA-CR-56188 N64-27301 19-29

SOLAR PRESSURE ATTITUDE CONTROL FOR INTERPLANETARY SPACECRAFT - PHOTON MOMENTUM TRANSFER
NASA-CR-58534 N64-29002 20-06

EARTH-BASED GUIDANCE OF UNMANNED LUNAR AND INTERPLANETARY SPACECRAFT
JPL-TR-32-472 N64-32824 24-29

DESIGN DATA FROM PENETRATION BALLISTICS TESTS FOR INTERPLANETARY SPACECRAFT METEOROID PROTECTION
NASA-CR-54205 N64-33177 24-32

INTERPLANETARY TRAJECTORY
EARTH-VENUS TRAJECTORIES 1968-1969
NASA-CR-52268 N64-10099 01-29

EARTH-VENUS TRAJECTORIES 1968-1969
NASA-CR-52142 N64-10100 01-29

EARTH-VENUS TRAJECTORIES 1968-1969
NASA-CR-52465 N64-10310 01-22

PROPELLED CAPSULE APPROACH FOR MARINER B SPACECRAFT USING DATA FOR MARS TRAJECTORY
NASA-CR-52535 N64-10902 02-29

BALLISTIC INTERPLANETARY TRAJECTORIES UNDER INFLUENCE OF MULTIPLE PLANETARY ATTRACTIONS - MANY-BODY PROBLEM
NASA-CR-53033 N64-13275 04-29

LOW CONSTANT THRUST PROPULSION AND INTERPLANETARY TRAJECTORY ANALYSIS
REPT.-26 N64-13473 05-29

TRAJECTORY DATA FOR SCHEDULING FLIGHTS TO VENUS AND MARS, 1960-2000
NASA-SP-35, PT. 2 N64-14176 06-29

TRAJECTORY DATA FOR SCHEDULING FLIGHTS FROM VENUS AND MARS TO EARTH, 1960-2000
NASA-SP-35, PT. 3 N64-14177 06-29

EARTH-VENUS TRAJECTORIES
NASA-CR-53050 N64-14893 06-29

THREE-DIMENSIONAL BALLISTIC EARTH-VENUS TRAJECTORIES
NASA-CR-53073 N64-15794 07-29

GUIDANCE, TRACKING, AND ERROR COEFFICIENTS OF THREE-DIMENSIONAL BALLISTIC EARTH-VENUS TRAJECTORIES
NASA-CR-52974 N64-15795 07-29

INTERPLANETARY TRAJECTORY ANALYSIS FOR MISSIONS FROM EARTH TO MERCURY, JUPITER, AND SATURN
NASA-TM-X-53046 N64-25706 17-29

ACCESSIBLE REGIONS METHOD OF ENERGY AND FLIGHT TIME ANALYSIS FOR ONE-WAY BALLISTIC INTERPLANETARY MISSIONS
NASA-CR-58359 N64-28840 20-29

EARTH-MARS BALLISTIC TRAJECTORIES - 1964 TO 1977
NASA-CR-58244 N64-29408 21-29

DESCRIPTION AND APPLICATION OF BALLISTIC TRAJECTORY DATA FOR EARTH-MARS-EARTH MISSION
FZM-4163-1 N64-29607 21-29

INTERPLANETARY TRANSFER
LAMBERTS THEOREM APPLIED TO SOLUTION OF INTERPLANETARY TRANSFER PROBLEMS
NASA-CR-53084 N64-16749 08-29

INTERPOLATION
CF COMPUTATION
NUMERICAL PROCEDURES FOR INTERPOLATION BY SPLINE FUNCTIONS
MRC-450 N64-18017 10-20

INTERPOLATION BY GENERALIZED SPLINE FUNCTIONS
MRC-476 N64-27716 19-20

INTERPOLATIONS OF IMPERFECT AIR THERMODYNAMIC DATA AT CONSTANT PRESSURE
AEDC-TDR-64-184 N64-29443 21-13

INTERPOLATION TECHNIQUE FOR COMPUTING LAUNCH ANGLES FOR ATHENA ROCKET
ERDA-187 N64-32320 23-21

INTERPRETATION
S PHOTOGRAPH INTERPRETATION

INTERSPACE
IMPLANTING ELECTRIC STIMULATOR UNDER SKIN THROUGH INTERSPACE FOR CARDIOVASCULAR SYSTEM STUDY
JPRS-21909 N64-11356 02-16

INTERSTELLAR MATERIAL
COSMOLOGY - STELLAR EVOLUTION, GROUPS OF MAIN SEQUENCE STARS, ECCENTRICITY OF ELLIPTICAL ORBITS, AND INTERSTELLAR MATERIAL
JPRS-24260 N64-19342 12-05

DISTRIBUTION, MOTION, AND PHYSICAL PROPERTIES OF INTERSTELLAR MATERIAL N64-19347 12-05

INTERSTELLAR MATERIAL AND STRUCTURE OF GALAXIES N64-27198 19-05

TEMPERATURE OF INTERSTELLAR MATERIAL USING SPECTROSCOPIC METHOD N64-28389 20-28

POLARIZATION OF RADIATION BY INTERSTELLAR MEDIUM N64-28390 20-28

MECHANISMS OF INTERSTELLAR POLARIZATION N64-28391 20-05

LUMINOUS INTERGALACTIC MATERIAL N64-28393 20-05

PHYSICS OF NEBULAS AND INTERSTELLAR MATERIAL N64-28397 20-29

THEORY OF SELECTIVE INTERSTELLAR ABSORPTION USED TO DETERMINE DISTANCES OF REMOTE STARS
FTD-TT-63-793/1&2 N64-29589 21-05

INTERSTELLAR ABSORPTION BANDS PRODUCED BY PLASMA RESONANCE IN COATED SODIUM
NASA-CR-59170 N64-33119 24-25

INTERSTELLAR SPACE
INTERPLANETARY & INTERSTELLAR SPACE EXPLORATION - TECHNICAL ASPECTS OF INTERPLANETARY FLIGHT N64-12911 04-29

MICROWAVE DETECTION OF HYDROXYL RADICAL IN INTERSTELLAR MEDIUM N64-22366 15-29

MAGNETIC FIELDS IN INTERSTELLAR SPACE N64-28381 20-29

DENSITY OF MOLECULES IN INTERSTELLAR SPACE N64-28388 20-28

INTERSTELLAR TRAVEL
FEASIBILITY STUDY AND REQUIREMENTS OF NUCLEAR FISSION OR FUSION PROPELLED VEHICLE FOR INTERSTELLAR TRAVEL
NASA-CR-53072 N64-16068 07-29

SPACE BIOLOGY AND MEDICINE - INTERSTELLAR TRAVEL N64-21870 15-29

SEXTANT SIMULATOR FOR MIDCOURSE GUIDANCE OF MANNED SPACECRAFT DURING INTERSTELLAR TRAVEL
AIAA PAPER-64-651 N64-27675 19-22

INTERSTELLAR TRAVEL AT LIGHT SPEED VELOCITY USING PHOTON ROCKETS
FTD-TT-63-1132/1&2&4 N64-27838 19-29

FISSION AND FUSION NUCLEAR POWER FOR INTERSTELLAR TRAVEL N64-31616 23-29

INTESTINE
CF ABDOMEN
CF DIGESTIVE SYSTEM
PROPERTIES AND STRUCTURE OF PURIFIED MAMMALIAN ADENOSINE DEAMINASE ISOLATED FROM CALF INTESTINE AND CAT LUNG
AD-429070 N64-14832 06-16

RESTORATIVE PROCESSES IN DUODENAL MUCOSA AFTER RADIATION EXPOSURE
JPRS-22276 N64-15828 07-16

INTRAOCULAR PRESSURE
S EYE

INVARIANCE
INVARIANT SHELL COORDINATES FOR GEOMAGNETICALLY TRAPPED PARTICLES N64-12002 03-20

SYNTHESIS OF MULTIVARIATE AUTOMATIC SYSTEMS FROM EQUIVALENT INITIAL CONDITIONS AND PRINCIPLE OF INVARIANCE - CYBERNETICS N64-12470 04-20

APPROXIMATE DIRAC-COULOMB HAMILTONIAN POSSESSING TWO VECTOR INVARIANTS N64-13834 05-23

DRIFT-MINIMUM CONDITION IN CONTROL SYSTEMS WITH DISTURBANCE INPUTS AND INVARIANCE
NASA-CR-55344 N64-15545 07-20

RELATIVISTIC ROTATION AND INVARIANCE OF MAXWELL EQUATIONS
NASA-TM-X-54018 N64-17694 09-23

INTEGRAL INVARIANCE OF CLASS OF STEADY STATE VISCOUS INCOMPRESSIBLE FLOWS
MD-63-3 N64-19268 11-11

ABSOLUTE INVARIANCE IN THEORY OF DIFFERENTIAL EQUATIONS
FTD-MT-63-322 N64-21660 15-20

INVARIANT IMBEDDING APPROACH TO STUDY OF PROCESSES - CONVERSION OF BOUNDARY VALUE PROBLEMS TO INITIAL VALUE PROBLEMS
RM-3806-PR N64-21723 15-09

APPLICATION OF PRINCIPLE OF INVARIANT IMBEDDING TO PROBLEMS IN TRANSPORT THEORY - HAMILTON EQUATION OF MOTION
RM-3538-PR N64-25740 17-23

ABSOLUTE INVARIANCE AND INVARIANCE TO PERIOD OF PERIODIC FUNCTION IN THEORY OF DIFFERENTIAL EQUATIONS
FTD-MT-63-325 N64-31880 23-20

INVERSION
INVERSION TECHNIQUE FOR MEASUREMENT OF ATMOSPHERIC TEMPERATURE BY RADIOMETRY N64-10914 02-21

INVERSION TECHNIQUES FOR DERIVING TEMPERATURE PROFILES, WITH ACCURACY & ERROR PROPAGATION CONSIDERATIONS N64-10924 02-21

GENERALIZED INVERSE OF INCIDENCE MATRIX
AD-433626 N64-18075 10-20

TECHNIQUE OF NUMERICAL INVERSION OF LAPLACE TRANSFORMS AS APPLIED TO HEAT EQUATION FOR INHOMOGENEOUS MEDIUM
RM-3974-NIH N64-19973 12-20

RADIO PROPAGATION IN TRADE WIND INVERSION DUCT-NEPTUNE PROJECT
CRL-272-2 N64-21988 15-08

INVERTER
SA STATIC INVERTER
MODULATED INVERTER FOR REGULATION OF ALTERNATING CURRENT TO DIRECT CURRENT POWER SUPPLIES N64-17432 09-06

LOW VOLTAGE HIGH CURRENT INVERTER USING TUNNEL

DIODES
NASA-CR-56570 N64-24027 16-09

MAGNETORESISTANCE, SUPERCONDUCTIVITY, AND HALL EFFECT FOR INVERTER APPLICATION
NASA-CR-59188 N64-33676 24-25

INVESTMENT CASTING
INVESTMENT CASTING OF THIN WALLED LARGE CASTINGS & WHOLLY CAST DISKS WITH BLADES FROM HEAT RESISTANT & HIGH STRENGTH STEELS
JPRS-22509 N64-12143 03-17

INVESTMENT AND CHILL MOLD CASTING
JPRS-25135 N64-23507 16-19

ETHYLSILICATE COVERING FOR INVESTMENT CASTING
N64-23508 16-19

INDEX OF VISCOSITY FOR MEASURING POLYMERIZATION IN ETHYLSILICIDE IN INVESTMENT CASTING
N64-23509 16-19

MECHANICAL PROPERTIES AND TENSILE STRENGTH OF 18 PERCENT NICKEL MARAGING STEEL PRODUCED BY INVESTMENT CASTING N64-24366 17-17

PRODUCTION OF TURBINE BLADES BY INVESTMENT CASTING FROM REFRACTORY ALLOYS N64-31516 23-17

PRECISION CASTING OF TURBINE BLADES AND BLADE RIMS BY LOST WAX PROCESS N64-31517 23-17

INFLUENCE OF DIMENSIONAL STABILITY OF CERAMIC MOLD ON PRECISION CASTING BY LOST WAX PROCESS
N64-31519 23-17

COLD-SETTING PLASTIC MOLDING MATERIAL FOR INVESTMENT CASTING
JPRS-26697 N64-32126 23-17

INVISCID FLOW
CF VISCOUS FLOW
ITERATIVE SOLUTION OF GOVERNING EQUATION FOR INVISCID, RADIATION RESISTED SHOCK WAVES
NASA-TN-D-2128 N64-12690 04-11

CONSTANT ENTHALPY MAGNETOHYDRODYNAMIC ACCELERATOR - CLOSED FORM SOLUTION OF ONE-DIMENSIONAL INVISCID EQUATIONS OF MOTION
SSD-TDR-63-270 N64-14173 06-24

NUMERICAL METHODS FOR CALCULATION OF TWO-DIMENSIONAL TIME DEPENDENT INVISCID FLOWS CONTAINING SHOCKS
NYO-10433 N64-15613 07-11

FLOW OF CONDUCTING INVISCID LIQUID PAST THIN SYMMETRIC NONCONDUCTING AND NONMAGNETIC AIRFOIL IN PRESENCE OF ALIGNED MAGNETIC FIELD
AD-429930 N64-15937 07-24

NONEQUILIBRIUM INVISCID EXPANSION FLOWS OF IONIZED ARGON AROUND CORNER
UTIAS-95 N64-16448 08-11

INVISCID REACTING FLOW FIELD ABOUT AXIALLY SYMMETRIC BODY SHAPE AT HYPERSONIC FLOW
R63SD90 N64-16982 09-38

COMPUTER PROGRAMS FOR BOUNDARY LAYERS AND INVISCID FLOW FIELD AROUND HYPERSONIC AIRCRAFT
NASA-CR-53397 N64-18134 10-11

CALCULATION METHOD FOR AERODYNAMIC FORCES ON WING PLANFORM IN SUBSONIC NONVISCOUS FLOW
NLR-TN-W.2 N64-18332 10-03

ITERATIVE SOLUTION OF INVISCID FLOW FIELD ABOUT SUPERSONIC AXISYMMETRIC BLUNT BODY - FLOW EQUATIONS
R-72 N64-18699 11-02

INVISCID NONADIABATIC FLOW AROUND BLUNT BODIES AT HYPERVELOCITIES
REPT.-6-90-64-1 N64-20680 13-02

ASYMMETRIC INVISCID MODES OF INSTABILITY FOR SPIRAL FLOW BETWEEN TWO CONCENTRIC ROTATING CYLINDERS
REPT.-562/07//55 N64-21324 14-11

FORTRAN PROGRAM FOR COMPUTING INVISCID FLOW FIELD OF HYPERSONIC INLET
REPT.-6011 N64-21558 15-02

INVISCID SUPERSONIC FLOW FIELDS AROUND TWO-DIMENSIONAL AND AXISYMMETRIC BODIES AT ZERO ANGLE OF ATTACK
D2-10598 N64-23382 16-11

THEORETICAL PREDICTION OF EQUILIBRIUM REAL GAS INVISCID FLOW FIELDS ABOUT BLUNT BODIES
NASA-CR-52876 N64-23394 16-02

COMPUTER PROGRAM FOR TURBULENT BOUNDARY LAYER OF INVISCID FLOW AT HYPERSONIC SPEEDS
NASA-CR-56368 N64-23996 16-11

THEORETICAL STUDIES OF INVISCID HYPERSONIC FLOWS WITH CHEMICAL REACTIONS N64-26133 18-02

UNIFORMLY VALID SOLUTION FOR FLOW OVER INCLINED CONE USING ASYMPTOTIC EXPANSION
AFOSR-64-1056 N64-26188 18-03

IBM 7094 COMPUTER PROGRAM FOR INVISCID FLOW FIELD ANALYSIS
NASA-CR-56369 N64-27912 20-11

IODIDE
CF HALIDE
CRYSTAL STRUCTURE OF BARIUM CHLORIDE, BROMIDE, AND IODIDE N64-11422 02-25

HYGROSCOPIC SALTS IN ANTIHAIL ROCKETS FOR STABILIZING FOG - SOLID CARBON DIOXIDE & SILVER IODIDE N64-11838 03-21

PRECIPITATION AND CLOUD DISPERSAL BY ACTION OF AQUEOUS SOLUTIONS OF LEAD IODIDE ON SUPERCOOLED CLOUDS N64-11840 03-21

ELECTROCHEMICAL STUDY OF IRON AND NICKEL IN SOLID SOLUTION IN POTASSIUM IODIDE
TDR-169/3240-21/TR-1 N64-13762 05-07

VAPOR PRESSURE OF TUNGSTEN CHLORIDE AND HAFNIUM IODIDE BY METAL DIAPHRAGM TECHNIQUE
BM-RI-6367 N64-15606 07-19

FORMATION OF HEPTAFLUOROPROPYLPHOSPHINE BY HYDROLYSIS
A63-14 N64-18631 11-07

THERMAL AND OPTICAL EXTERNAL QUENCHING OF PHOTOLUMINESCENCE IN POTASSIUM IODIDE-THALLIUM SYSTEMS
FTD-MT-63-29/1&2 N64-18666 11-25

DIFFUSION OF SILVER IODIDE NUCLEI IN ATMOSPHERE
REPT.-2 N64-20428 13-21

TWO QUANTITATIVE TITRATION METHODS FOR SELENIUM USING POTASSIUM IODIDE AND COPPER ANODE MUD
N64-20663 13-07

SPECTRA OF GALLIUM-THALLIUM IODIDE FLASH LAMP
AD-437572 N64-24231 16-09

SILVER CHLORIDE & IODIDE AS SEQUESTERING AGENTS FOR RADIOACTIVE IODINE N64-30036 21-16

SEEDING CLOUDS WITH SILVER IODIDE SMOKE RELEASED FROM AIRCRAFT
RPR-145 N64-32309 23-21

INCREASED PRECIPITATION BY CLOUD SEEDING WITH SILVER IODIDE SMOKE FROM AIRCRAFT
RPL-161 N64-32310 23-21

INCREASED PRECIPITATION BY CLOUD SEEDING WITH SILVER IODIDE SMOKE FROM AIRCRAFT
RPL-163 N64-32311 23-21

IODINE
CF HALOGEN
PRODUCTION AND DISTRIBUTION OF RADIOACTIVE IODINE IN MILK AND HUMAN THYROID
UCRL-7716 N64-19097 11-16

SILVER CHLORIDE & IODIDE AS SEQUESTERING AGENTS FOR RADIOACTIVE IODINE N64-30036 21-16

STABILITY OF THYROID PROTEIN WITH REACTIVE IODINE AS RADIOACTIVE TRACE ELEMENT N64-32011 23-07

IODINE 131
IMMUNOLOGICAL REMOVAL OF IODINE-131 LABELED RABBIT ANTIBODY TO RAT FIBRINOGEN IN NORMAL AND TUMOR-BEARING RATS
UR-634 N64-10190 01-16

EXCRETION RATE OF BROMINE-82, RUBIDIUM-86, AND IODINE-131 FROM RATS N64-12436 04-16

PRODUCTION METHOD TO OBTAIN IODINE 131 BY DRY DISTILLATION FROM URANIUM OXIDES N64-23058 16-23

INORGANICALLY BOUND IODINE-131 SEPARATED FROM URINARY CONSTITUENTS BY ION EXCHANGE ON SILVER CHLORIDE COLUMN
ANL-6887 N64-30602 22-16

IODOACETIC ACID
CHANGES IN CONCENTRATION OF CARBON-14 LABELED COMPOUNDS IN PHOTOSYNTHESIZING CHLORELLA DUE TO ADDITION OF IODOACETIC ACID N64-19468 12-07

ION
SA CESIUM ION
SA CYCLOTRON RESONANCE
SA HYDROGEN ION
CF ATOM
CF CHARGED PARTICLE
CF FREE RADICAL
ELECTRO-OXIDATION OF 1,2 BIS/DIPHENYL/BORATE ION
AROD-2814-3 N64-10552 01-07

USE OF CATION EXCHANGE RESINS TO DETERMINE ASSOCIATION CONSTANTS OF CEROUS AND SULFATE IONS
LA-2513 N64-11290 02-07

SPUTTER-ION PUMPS WITH THERMIONIC ELECTRON INJECTION
CPD-74 N64-11788 03-17

SCATTERING FACTORS FROM HARTREE SELF-CONSISTENT-FIELD WAVE FUNCTIONS FOR ELEMENTS AND IONS
LA-2987 N64-11985 03-23

VACUUM ION GAUGE WITH FLUX DETECTOR FOR MEASUREMENT OF NUCLEAR RADIATION DOSE ON ELECTRONIC COMPONENTS
USAERDL-TR-2342 N64-12020 03-13

DIFFERENCE IN PRESSURE MEASUREMENTS OF HIGH AND LOW CONDUCTANCE ION GAUGES IN ULTRAHIGH VACUUM SYSTEM
MATT-212 N64-12063 03-15

THEORY OF CONDUCTIVITY PROBE - MASS OF COLLIDING PARTICLES AND ORBITS OF IONS & NEUTRAL PARTICLES
NASA-CR-55101 N64-12401 03-24

SHAPE OF UPPER F-REGION - EQUILIBRIUM SOLUTIONS FOR CONTINUITY EQUATION FOR ATOMIC OXYGEN IONS IN TERMS OF EXPONENTIAL SERIES N64-13009 04-12

REACTIONS OF IONS AND ELECTRICALLY EXCITED SPECIES WITH ATOMS AND MOLECULES IN GAS PHASE - SQUID PROJECT N64-13487 05-24

FIELD ION MICROSCOPY OF IRON WHISKERS
ASD-TDR-63-138, PT. 2 N64-13641 05-18

PROPERTY MEASUREMENTS OF TRANSVERSE AND RADIAL ION INDUCED ELECTRON BEAM OSCILLATIONS N64-13795 05-24

EFFECT OF CATION RATIO CHANGE ON DECOMPOSITION REACTION OF NITRATE ION BY PYROSULFATE ION IN ALKALI NITRATES
IS-742 N64-14225 06-07

TECHNIQUES FOR MEASURING ION CURRENTS IN LIQUID HELIUM N64-14452 06-23

SEPARATION OF CATIONS BY REVERSED-PHASE PARTITION CHROMATOGRAPHY USING NEUTRAL ORGANIC PHOSPHORUS COMPOUNDS
IS-737 N64-14886 06-07

RELATIVE BIOLOGIC EFFECT OF IRRADIATION OF MICE WITH VARIOUS HEAVY IONS N64-15217 07-16

MOLECULAR FLOW IN ELECTRON BOMBARDMENT ION CHAMBER AND ANALYSIS OF SPACE CHARGE FLOW IN ION ACCELERATION
AIAA PAPER-64-7 N64-15303 07-27

INFLUENCE OF IONS ON ROCKET COMBUSTION
AFOSR-5493 N64-16341 08-21

PREPARATION AND IONIC STRUCTURE DETERMINATION OF CHLORINETRIFLUORIDE COMPLEXES
AD-432343 N64-17650 09-26

REUTER-STOKES HIGH TEMPERATURE ION CHAMBER AND FISSION COUNTER
PWAC-424 N64-17720 09-15

UNCOUPLING PROCEDURE FOR CHARGE TRANSPORT AND ELECTRIC FIELD EQUATIONS IN PARALLEL PLATE ION CHAMBER
RTD-TDR-63-3063 N64-19001 11-23

REDUCTION OF FERMION OPERATORS BY LITTLE GROUP TECHNIQUE
PREPRINT-111 N64-19202 11-20

SCATTERING OF ELECTRONS AND IONS BY DUST PARTICLES IN GAS - SQUID PROJECT
ILL-14-P N64-19637 12-24

ENERGY REQUIREMENTS FOR VOLUME ION PRODUCTION IN TENUOUS HELIUM PLASMA
NASA-TN-D-2324 N64-20193 13-24

PROBE FOR MEASURING ENERGY DISTRIBUTIONS OF IONS IN INTERPLANETARY SPACE & AT SATELLITE ALTITUDES
NASA-TM-X-51042 N64-20584 13-28

ION MICROSCOPY - PRECIPITATIONS IN CARBON-DOPED TUNGSTEN AND DAMAGE TO NEUTRON-IRRADIATED PLATINUM
NASA-CR-56015 N64-20639 13-15

ROTATIONAL EXCITATION OF MOLECULAR IONS BY ELECTRONS
R64SD31 N64-21149 14-23

HYDROGEN CELL AND ION CHAMBER FOR OBTAINING PHOTOELECTRIC DATA ON RESONANCE SCATTERING AT LYMAN ALPHA LINE
NASA-TN-D-2148 N64-22018 15-23

SIX MEGAWATT PULSED RADIO FREQUENCY GENERATOR FOR ION CYCLOTRON RESONANCE PLASMA HEATING
MATT-260 N64-22074 15-06

ION SORPTION PUMP WITH COLD CATHODE
FTD-TT-63-702/162 N64-22657 15-15

USE OF GUARD SHIELDS ON NEGATIVELY BIASED LANGMUIR ION COLLECTION CURRENT PROBES
AMP-137 N64-23102 16-24

ION AND ELECTRON DRIFT VELOCITIES IN CESIUM
AROD-3588-2 N64-23135 16-09

NUMERICAL COMPUTATIONS FOR ION PROBE CHARACTERISTICS IN COLLISIONLESS PLASMA
MATT-252 N64-23211 16-24

STRUCTURE OF FERMION DENSITY MATRICES - WAVE FUNCTIONS OF BARDEEN-COOPER-SCHIEFFER TYPE & SUPERCONDUCTIVITY
TN-103 N64-24757 17-23

MODEL N-FERMION SYSTEM USED TO STUDY RANGE OF VALIDITY OF DIAGRAMATIC MANY-BODY PERTURBATION THEORY AND SUMMATIONS OF HIGHER ORDER GRAPH

TR-334 N64-24866 17-20

SELECTION AND PLASMA FOCUSING OF IONS IN SOURCE OF MULTIDISCHARGE IONS
FTD-TT-64-541/1&2&4 N64-26165 18-23

ENERGY SPECTRA OF IONS SCATTERED BY POLYCRYSTALLINE SURFACES OVER SMALL ANGLES
FTD-TT-64-543/1&2&4 N64-26211 18-23

THEORY OF ZEEMAN EFFECT FOR RARE EARTH IONS IN CRYSTAL FIELD
IS-871 N64-26467 18-25

IONIZATION IN FLAMES AND IDENTIFICATION OF NEGATIVE IONS
ARL-64-104 N64-26490 18-07

PROBE CHARACTERISTICS OF ELECTRON AND ION CURRENTS AND ENERGY DISTRIBUTION OF NICKEL ATOMS DURING CATHODE SPUTTERING OF NICKEL BY MERCURY IONS
FTD-TT-64-380/1&2&4 N64-26995 19-23

ENERGY DISTRIBUTION OF NICKEL ATOMS DURING CATHODE SPUTTERING OF NICKEL BY MERCURY ION
N64-26997 19-23

ELECTRIC EXCITATION OF FLUORESCENCE IN MAGNESIUM OXIDE CRYSTALS DOPED WITH CHROMIUM IONS
ML-1036 N64-27233 19-23

SATURATION ION CURRENTS TO LANGMUIR PROBES
MATT-272 N64-27450 19-24

DISSOCIATION OF METHANE MOLECULE IONS FORMED IN CHARGE EXCHANGE COLLISIONS WITH POSITIVE IONS - ION-MOLECULE REACTIONS OF METHANE
AFCRL-64-545 N64-27535 19-07

INTERACTION OF RARE EARTH IONS, FLUORESCENCE QUENCHING, AND ION FLUORESCENCE IN CONCENTRATED MANGANESE SYSTEMS N64-27990 20-25

PARTICIPATION OF ANIONS IN FUNCTION OF EXCITABLE TISSUES N64-28040 20-16

SPUTTERING OF METEORITES BY POSITIVE HELIUM, NEON, AND ARGON IONS N64-28302 20-23

EFFECTS OF ANIONS AND CATIONS ON OXYGEN REDUCTION AND EVOLUTION REACTIONS ON PLATINUM ELECTRODES
TR-18 N64-28599 20-07

COMPUTATIONS OF ELECTRON DISTRIBUTIONS ABOUT THERMIONICALLY EMITTING PARTICLES, & ION SAMPLING FROM CHEMICAL PLASMAS
QSR-7 N64-28644 20-24

SPECTRAL RESPONSE OF VACUUM ULTRAVIOLET ION CHAMBERS FOR VARIOUS FILLING GASES AND WINDOW MATERIALS N64-28677 20-23

FORMATION AND DISSOCIATION OF NEGATIVE IONS
N64-29061 21-23

FABRICATION OF CONTROLLED-JUNCTION SOLAR CELLS BY IMPLANTATION OF DOPING IONS INTO BULK SILICON BY VAN DE GRAAFF ACCELERATOR N64-29164 21-06

ZEOLITE TRAP IN SPUTTER-ION PUMP AS NOISE SUPPRESSOR IN MULTIPLIER OF MASS ANALYZER
NASA-CR-58538 N64-29700 21-15

ANION EXCHANGE CHARACTERISTICS OF ELEMENTS IN NITRIC ACID AND NITRATE SOLUTIONS - APPLICATION TO TRACE ELEMENT ANALYSIS
ANL-6811 N64-30126 21-07

ALTITUDE DISTRIBUTION OF CHARGED PARTICLES IN IONOSPHERE FROM ION TRAP EXPERIMENTS ON COSMOS II SATELLITE
FTD-MT-64-53 N64-30152 21-12

SCINTILLATION COUNTER FOR DETECTION OF LOW ENERGY ION N64-30359 22-23

ENERGY LEVELS OF MANY-FERMION SYSTEM BY METHOD EQUIVALENT TO RANDOM PHASE APPROXIMATION
TH-42 N64-30492 22-23

OPERATION OF SKIMMER NOZZLE AND USE AS COLLOIDAL ION SOURCE AND FOR SYNTHESIS OF CHEMICAL SUBSTANCES, CLUSTER IONS, OR CHARGED BODIES
TN-R-90 N64-30760 22-27

ULTRAVIOLET SPECTRA AND TRANSITION PROBABILITIES FOR CORONAL IONS
NASA-TT-F-8940 N64-30834 22-28

MATRIX ELEMENTS FOR POLARIZED FERMION SCATTERING
ARL-64-162 N64-30949 22-23

REACTION MECHANISM OF CATION COLLECTOR AND WITH APATITE AND CALCITE N64-31406 23-07

HEAVY PARTICLE ELECTRIC PROPULSION
N64-31602 23-27

HEAVY PARTICLE ELECTRIC PROPULSION - COLLOIDAL CHARGED DROPLETS N64-31603 23-27

CIRCUIT DIAGRAMS OF ASPIRATION CONDENSERS IN ION COUNTER N64-31771 23-09

USE OF ION PROBE FOR DIAGNOSIS OF REENTRY PLASMAS
AD-420827 N64-32138 23-24

CESIUM ION-NEUTRAL SCATTERING AND ION MOBILITY IN LOW FIELD LIMIT
NASA-TM-X-52061 N64-32437 23-24

ENERGY REQUIREMENT FOR ION PRODUCTION BY ELECTRON BOMBARDMENT IN HELIUM, ARGON, AND CESIUM GASES
NASA-TM-X-52064 N64-32438 23-24

MASS SPECTROMETRY OF NEGATIVE IONS IN LOW-PRESSURE ATOMIC OXYGEN - ACETYLENE REACTION
AC-1-P N64-32503 23-26

ELECTRON SPIN RESONANCE AND ULTRAVIOLET SPECTRA OF ION SOLVENTS
AD-449206 N64-32516 23-07

FLUORINE AND NITROGEN ANIONS AND CATIONS IN SOLUTIONS OF NITROGEN-FLUORINE COMPOUNDS
HQ-76-6 N64-32684 23-07

FIELD ION MICROSCOPY OF HEAT TREATED TUNGSTEN ALLOYS AND OF POINT DEFECTS IN IRRADIATED PLATINUM WIRE
NASA-CR-58771 N64-32889 24-18

UNCONVENTIONAL METHODS FOR INFLUENCING FLUID FLOW - ION DRAG PUMP AND THRUST BEARING
ASD-TDR-63-776, VOL. III N64-33356 24-17

COHERENT PAIRED STATES FOR STRONGLY INTERACTING FERMIONS N64-33803 24-23

ION ASSOCIATION
USE OF CATION EXCHANGE RESINS TO DETERMINE ASSOCIATION CONSTANTS OF CEROUS AND SULFATE IONS
LA-2513 N64-11290 02-07

ION-ATOM INTERACTION
ERROR IN URANIUM HEXAFLUORIDE ISOTOPIC RATIO MEASUREMENTS DUE TO IMPURITY OF RESIDUAL GASES IN ION INTERACTION
K-1400 N64-16017 07-23

OXIDIZER RESEARCH - THERMOCHEMICAL DATA, INTRAMOLECULAR INTERACTION, AND REPULSIVE ENERGY IN ALKALI HALIDES
S-13907 N64-17783 09-26

EXCITATION RESONANCE IN HELIUM ION-ATOM COLLISIONS
N64-22367 15-24

ENERGY LOSS IN FAST IONS OF RARE GASES AFTER COLLISION WITH HELIUM AND NEON ATOMS
NASA-TT-F-8941 N64-30835 22-11

ION BEAM
ION BEAM INSTRUMENTS FOR PLASMA DIAGNOSTICS TESTING OF ELECTRICAL PROPULSION SYSTEMS
AEDC-TDR-63-242 N64-13663 05-24

ION BEAM NEUTRAL COMPONENT DETERMINATION BY RESONANCE RADIATION ABSORPTION
AIAA PAPER-64-9 N64-14157 05-23

ION BEAM METHOD FOR MEASURING RECOMBINATION CROSS SECTION OF CESIUM IONS
TRECOM-TR-63-73 N64-14501 06-23

HIGH POWER BEAM PLASMA AMPLIFIER
AD-426322 N64-18850 11-24

EFFECT OF ION VELOCITY DURING EXCITATION OF PLASMA OSCILLATIONS BY ION BEAM
FTD-TT-64-115/1&2 N64-21971 15-24

UTILIZATION OF ION BEAM CURRENT FROM HIGH PULSE ARC DISCHARGE IN PROTON SOURCES
FTD-TT-64-330/1&2 N64-21977 15-24

NEUTRALIZATION OF ION BEAM WITH ELECTRONS IN MAGNETIC FIELD
FTD-TT-64-176/1&4 N64-23431 16-24

COMPARISON OF ION BEAM DRILLING AND ELECTRIC DISCHARGE PERFORATION OF METALS
N64-23506 16-18

PLASMA ION SOURCES AND ION BEAM FORMATION
FTD-MT-63-181 N64-24245 17-24

DESIGN AND EVALUATION OF ION BEAM DELAY LINE
R-4-64-3 N64-25379 17-24

MAGNETIC FIELD EFFECTS ON COMPENSATION OF SPACE CHARGE OF ION BEAM BY ELECTRONS
FTD-TT-64-619/1&2&4 N64-26719 18-24

ANISOTROPY OF COEFFICIENT OF ION-ELECTRON EMISSION IN SINGLE CRYSTALS
FTD-TT-64-130/1&2&4 N64-27080 19-25

PASSAGE OF ION BEAMS THROUGH PLASMA
N64-27157 19-24

TWO DIMENSIONAL COMPUTER EXPERIMENTS ON ION BEAM NEUTRALIZATION
AIAA PAPER-64-698 N64-28367 20-27

CREATING BEAMS OF HIGH-SPEED IONS BY CONTACT IONIZATION THRUSTORS AND ELECTRON BOMBARDMENT THRUSTORS FOR ELECTRIC PROPULSION OF SPACECRAFT
NASA-RP-290 N64-28946 20-27

MOVEMENT OF STRONG CHARGED PARTICLE BEAMS IN HIGH VOLTAGE ELECTROSTATIC FIELDS
FTD-TT-63-514/1&2 N64-29017 20-24

COMPENSATION OF ION BEAM SPACE CHARGE BY ELECTRONS IN HIGH VACUUM MAGNETIC FIELD
NASA-TT-F-8963 N64-30856 22-24

PROBLEMS OF ION BEAM FORMATION FROM ELECTRON BOMBARDMENT ION SOURCES
NASA-CR-54143 N64-31088 22-27

EFFECTS OF ION BEAM EXCITATION ON CHARGE TRANSFER CROSS SECTION MEASUREMENTS N64-32526 23-11

ION BEAM ENERGY STABILIZATION OF VAN DE GRAAFF GENERATOR N64-33714 24-23

ION BOMBARDMENT
TWO-COMPONENT MICROBALANCE FOR MEASURING FORCES ON ION-BOMBARDED SURFACES N64-10361 01-15

TANTALUM CRYSTAL SURFACE STRUCTURE AS FUNCTION OF HEAT TREATMENT AND ION BOMBARDMENT
NASA-CR-52930 N64-12398 03-23

ENERGY DISTRIBUTIONS FOR ATOMS SPUTTERED FROM COPPER & POLYCRYSTALLINE SURFACES UNDER MERCURY & NOBLE GAS BOMBARDMENT
AD-424612 N64-12476 04-23

ENERGY DISTRIBUTIONS FOR ATOMS SPUTTERED FROM COPPER & POLYCRYSTALLINE SURFACES BOMBARDED BY MERCURY & NOBLE GAS IONS N64-12479 04-23

ENERGY DISTRIBUTIONS OF COPPER ATOMS SPUTTERED BY HELIUM, NEON, ARGON, XENON, AND MERCURY
N64-12480 04-23

ENERGY DISTRIBUTIONS OF SPUTTERED ATOMS FOR VARIOUS POLYCRYSTALLINE TARGETS
N64-12481 04-23

NEUTRON SPECTRA FROM BOMBARDMENT OF GOLD BY OXYGEN-16 IONS
UCRL-11088 N64-14416 06-23

HYDROGEN ION BOMBARDMENT OF BASALT POWDERS IN INVESTIGATING EFFECT OF SOLAR WIND ON LUNAR SURFACE
NASA-CR-55720 N64-15891 07-29

ENERGY AND MASS DISTRIBUTIONS OF FISSION FRAGMENTS PRODUCED BY HEAVY ION BOMBARDMENT
UCRL-11193 N64-16549 08-23

ANGULAR DISTRIBUTION OF SECONDARY IONS FROM ION BOMBARDMENT OF METAL SURFACES
FTD-TT-62-1719/1&2 N64-22146 15-23

ELECTRON MICROSCOPIC INVESTIGATION OF ANNEALED AND ION BOMBARDED SINTERED ALUMINUM POWDER FOILS
EUR-1833.E N64-28132 20-18

ION BOMBARDMENT AND SIMULTANEOUS DOPING OF SILICON BY DC GLOW DISCHARGE
AROD-3330-4 N64-30006 21-25

ULTRAHIGH FREQUENCY SILICON POWER TRANSISTORS - DIFFUSION EFFECTS, ION BOMBARDMENT DOPING, AND EPITAXIAL DEPOSITION
AL-TDR-64-207 N64-30982 22-09

ION CHARGE
ELECTRICALLY OPERATED MASS FILTER FOR DETERMINATION OF SPECIFIC CHARGE OF IONS
T-G-124 N64-12827 04-09

EFFECT OF INTERACTION BETWEEN SATELLITE CHARGE AND AMBIENT IONS ON SATELLITES
AIAA PAPER-64-32 N64-16726 08-29

ION DISTRIBUTION
LATTICE TYPE & IONIC DISTRIBUTION OF PER-ALKYL AMMONIUM, PHOSPHONIUM, AND SULFONIUM SALT HYDRATE CRYSTALS N64-10979 02-25

HYDROGEN ION DISTRIBUTION IN UPPER ATMOSPHERE
N64-12406 03-12

DETECTOR-ANALYZER FOR STUDYING PROTON AND ION ENERGY DISTRIBUTION IN INTERPLANETARY SPACE AT SATELLITE ALTITUDES
NASA-TN-D-2111 N64-14727 06-24

NONLINEAR MOTION OF ELECTRON OSCILLATION WITH RADIAL VIBRATION AND EFFECT ON ION DISTRIBUTION IN VICINITY OF ANTENNA
NASA-CR-55334 N64-14900 06-08

SPUTTERING AT OBLIQUE ANGLES OF ION INCIDENCE
NASA-TN-D-2235 N64-18080 10-23

DIRECT MEASUREMENT OF HYDROGEN AND HELIUM ION DISTRIBUTION IN UPPER ATMOSPHERE
NASA-RP-168 N64-19994 12-12

ION AND ELECTRON DISTRIBUTION IN EXOSPHERE
NASA-CR-53689 N64-20008 13-12

MASS SPECTROMETRIC MEASUREMENTS OF ATMOSPHERIC DISTRIBUTION OF HELIUM, NITROGEN, OXYGEN AND NITROGEN OXIDE IONS TO 430 KM ALTITUDE
NASA-TT-F-8819 N64-23125 16-12

SURFACE INCLINATIONS OF EQUAL ELECTRON

CONCENTRATIONS IN IONOSPHERE & IONIZATION DISTRIBUTION WITH HEIGHT
NASA-TT-F-8691 N64-24908 17-12

ALTITUDE DISTRIBUTION OF CHARGED PARTICLES IN IONOSPHERE FROM ION TRAP EXPERIMENTS ON COSMOS II SATELLITE
FTD-MT-64-53 N64-30152 21-12

EFFECTS OF IRON AND ALUMINUM ION DISTRIBUTION ON PROPERTIES OF INTERMETALLIC OXIDE CRYSTALS
QTSR-2 N64-32454 23-25

ION EMISSION
ELECTRON AND ION EMISSION FROM SOLIDS
NASA-TT-F-73 N64-11561 03-23

ION EMISSION IN ANALYZER OF TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-63-722 N64-12611 04-15

ELECTRON & ION EMISSION FROM LASER-HEATED OXIDE CATHODES
N64-13798 05-25

EMISSION OF ELECTRONS & IONS FROM TUNGSTEN SURFACE HEATED BY PULSED LASER BEAM N64-13800 05-25

STATISTICAL MECHANIC DERIVATION OF SURFACE IONIZATION THEORY FOR CESIUM ION EMISSION FROM POROUS TUNGSTEN
EOS-RR-17 N64-14341 06-23

MAGNETOHYDRODYNAMICS, ELECTRON & ION EMISSION FROM TUNGSTEN FILAMENT, AND ION PENETRATION THROUGH IONIC DIPOLE LAYER AT ELECTRODE SURFACE
N64-17901 10-23

ION EMISSION & EMITTERS - EFFECT OF IMPURITIES ON CESIUM ION AND NEUTRAL EMISSION FROM HOT POROUS TUNGSTEN
NASA-CR-54045 N64-22193 15-23

LITHIUM ALUMINOSILICATE AS ION EMITTING SOURCE FOR THERMIONIC CONVERTER
USAELRDL-TR-2479 N64-26176 18-23

SECONDARY ION EMISSION DURING METAL BOMBARDMENT BY LOW ENERGY IONS
FTD-TT-64-544/1&2&4 N64-30486 22-23

THERMODYNAMIC EQUILIBRIUM OF CRYSTAL SURFACES - LOW ENERGY ELECTRON DIFFRACTION TECHNIQUES AND FIELD ION EMISSION MICROSCOPY
AD-602105 N64-30770 22-25

ION ENGINE
PERMANENT MAGNETIC CIRCUIT FOR LOW CURRENT DENSITY ELECTRON BOMBARDMENT ION ROCKET ENGINE
N64-11591 03-27

ION ENGINE GROUND TESTING TECHNIQUES
AEDC-TDR-63-245 N64-12685 04-27

HEAVY MOLECULES AS PROPELLANTS FOR ELECTRON BOMBARDMENT ION THRUSTOR AND SURVEY OF MOLECULAR PLASMA COLLISION PROCESSES
NASA-TN-D-1185 N64-15906 07-24

STEADY-STATE CONTROL PROPERTIES OF AN ELECTRON BOMBARDMENT ION THRUSTOR
NASA-TN-D-2171 N64-15910 07-27

ELECTROSTATIC ROCKET ENGINES - BIBLIOGRAPHY
AID-P-63-121 N64-15949 07-27

ELECTRON-BOMBARDMENT ION ROCKET ENGINE WITH PERMANENT MAGNET
AIAA PAPER-63-031 N64-16575 08-27

USING LOW THRUST ENGINES TO CONTROL POSITION, PERIOD, AND ECCENTRICITY OF SATELLITE ORBITS
TDR-269/4504-20/-1 N64-16876 08-22

ION ENGINE PROPELLANT FEED SYSTEM
NASA-CR-51 N64-20579 13-27

TRANSVERSE FIELD ION ENGINE FOR ELECTRICAL PROPULSION
NASA-CR-54054 N64-22453 15-27

ION-ENGINE DESIGN PROBLEMS OF HIGH CONTACT PRESSURE, THRUST MEASUREMENT, AND CYLINDRICAL BODY DESIGN
NASA-RP-200 N64-24529 17-27

SPIN STABILIZATION AND ION THRUSTOR ENGINES FOR SPACE ELECTRIC ROCKET TEST /SERT/ SPACECRAFT
N64-24594 17-32

ELECTRON BOMBARDMENT ION ENGINE USING MERCURY AS PROPELLANT
NASA-CR-54082 N64-25008 17-27

CESIUM ION ROCKET PROPULSION SYSTEM
NASA-CR-54025 N64-25015 17-27

CESIUM VAPOR AUTOMATIC CONTROL SYSTEMS FOR ELECTRON BOMBARDMENT AND CONTACT ION ENGINES
AIAA PAPER-64-504 N64-25177 17-27

ION ENGINE SYSTEMS FOR CONTROL OF EARTH SATELLITES
AIAA PAPER-64-501 N64-25642 17-27

VELOCITY DISTRIBUTION OF PROPELLANT EJECTION AND EFFECT ON PROPULSION EFFICIENCY OF ION ENGINES
NASA-RP-241 N64-26403 18-27

ELECTRON BOMBARDMENT CESIUM ION ENGINE SYSTEM
NASA-CR-54067 N64-28052 20-27

ELECTRODE MATERIALS FOR CONTACT ION ENGINES
AIAA PAPER-64-684 N64-28362 20-27

PLASMA NONUNIFORMITY EFFECTS ON GRID EROSION IN ELECTRON BOMBARDMENT ION ENGINE
AIAA PAPER-64-688 N64-28363 20-27

DESIGN AND PERFORMANCE OF 50 CENTIMETER DIAMETER MERCURY ELECTRON BOMBARDMENT ION THRUSTOR
AIAA PAPER-64-689 N64-28364 20-27

ELECTRON-ION MIXING IN ION ENGINES
NASA-CR-54033 N64-28735 20-27

CONDENSATION COLLOIDAL ION SOURCE FOR PRODUCTION OF PROPELLANT PARTICLES FOR ELECTROSTATIC ION ENGINE
ASD-TDR-63-825 N64-28815 20-27

POWER CONVERSION AND CONDITIONING SYSTEM FOR ION ENGINES
AIAA PAPER-64-764 N64-28864 20-27

PERFORMANCE AND RELIABILITY OF INDIRECTLY-HEATED NICKEL MATRIX CATHODES AS ELECTRON SOURCES IN ION ENGINES
NASA-CR-54109 N64-29223 21-17

LONG-TIME TEST OF ELECTRON BOMBARDMENT CESIUM ION ROCKET ENGINE, NEW PERMANENT MAGNET ENGINE, PLASMA DISTRIBUTION, AND AUTOCATHODE STUDIES
NASA-CR-54026 N64-29495 21-27

NUCLEAR-ELECTRIC POWER REQUIREMENTS FOR ELECTRIC ROCKETS - CONTACT AND BOMBARDMENT ION ENGINES, ARC JETS, AND PULSED PLASMA ENGINES
AIAA PAPER-64-765 N64-29575 21-06

GUIDING ION ENGINE ROCKETS INTO SPACE USING ELECTRIFIED RAILS ALIGNED IN SPACE BY SMALL ENGINES
FTD-TT-64-620/1 N64-29664 21-30

POROUS MATRIX PHASE SEPARATOR FOR ION ENGINE PROPELLANT FEED SYSTEM
NASA-CR-54152 N64-30033 21-27

FLIGHT PROFILE SIMULATION TESTS OF CESIUM ION ENGINE FLIGHT TEST PAYLOAD
ASD-TDR-63-86 N64-30124 21-27

ATTITUDE SENSORS FOR SATELLITE CONTROL SYSTEM USING ION ENGINE PROPULSION FOR ATTITUDE CONTROL TORQUES AND ORBIT CONTROL IMPULSES
NASA-CR-53 N64-30991 22-15

SPACE FLIGHT OF JET AIRCRAFT WITH IONIC OR PLASMA ENGINE N64-31524 23-32

MOMENTUM TRANSFER THROUGH ELECTRIC FIELDS - ION ENGINE APPLICATION N64-31609 23-27

SPACE ENVIRONMENT SIMULATION FOR GROUND BASED TESTING OF ION ENGINES - INTERACTION OF ANNULAR ION BEAM WITH ENVIRONMENT
AEDC-TDR-64-127 N64-32121 23-27

OPERATION LIFE OF CESIUM CONTACT ION ENGINES
AIAA PAPER-64-685 N64-32722 24-27

DESIGN CRITERIA AND PERFORMANCE OF LONG LIFE CESIUM CONTACT LINEAR STRIP ION ENGINE.
AIAA PAPER-64-710 N64-32725 24-27

ION ROCKET SYSTEM - ENGINES AND ELECTRODE MATERIAL TEST PROGRAM
NASA-CR-59020 N64-33285 24-27

EFFECT OF ARCING BETWEEN THRUSTOR ELECTRODES ON ION ROCKET SYSTEM DESIGN
AIAA PAPER-64-682 N64-33785 24-27

EFFECT OF IMPURITIES ON IONIZATION BEHAVIOR OF CESIUM ON POROUS TUNGSTEN SURFACE IN ION ENGINE
ASD-TDR-63-476, PT. II N64-33885 24-26

ION EXCHANGE
CF CHEMICAL REACTION
NEUTRON ACTIVATION ANALYSIS OF RARE EARTH ELEMENTS BETA DECAY, GAMMA RAY SPECTROSCOPY, & ION EXCHANGE SEPARATION
JPRS-18861 N64-10645 01-18

FUNCTIONAL SIGNIFICANCE OF SULFHYDRYL GROUPS IN CELL MEMBRANE
UR-633 N64-10666 01-16

ION-EXCHANGE PURIFICATION OF PROMETHIUM, AT HIGH TEMPERATURE WITH AMMONIA BUFFERED ELUENT, FROM RADIOACTIVE WASTE
HW-78651, REV. N64-11957 03-07

HOT SEMIWORKS FOR RECOVERY OF STRONTIUM-90 - SOLVENT EXTRACTION, ION EXCHANGE, & PRECIPITATION PROCESSES
HW-72666 N64-13018 04-07

ION EXCHANGE OF ISOTOPIC SODIUM-24 AND POTASSIUM-32 BETWEEN BLOOD AND CENTRAL NERVOUS SYSTEM DURING HYPOXIA N64-14588 06-16

GAMMA-RAY SPECTROMETRIC DETERMINATION OF IRON, COPPER, PHOSPHOROUS, AND NICKEL IN SILICON USING ION-EXCHANGE
AFCRL-63-388 N64-14685 06-23

CELLOPHANE TREATMENT BY ANTIOXIDANTS & TOLYLENE DIISOCYANATE, ION EXCHANGE MEMBRANES, AND DIFFUSION & REACTION OF SILVER ION IN SEPARATORS
NASA-CR-55414 N64-14864 06-06

SEPARATION & ION EXCHANGE BEHAVIOR OF PROTACTINIUM IN TRIBUTYL PHOSPHATE WITH NITRIC ACID, XYLENE, OR KEROSENE SOLUTIONS N64-15652 07-07

SOLUBILITY, AMINE EXTRACTION, & ION EXCHANGE OF PROTACTINIUM IN SULFATE & SULFURIC ACID N64-15659 07-07

ION EXCHANGE MEMBRANE SYNTHESIS FOR USE IN STORAGE BATTERIES
NASA-CR-53713 N64-19611 12-06

ION EXCHANGE PROCESS FOR REMOVING CESIUM 137 FROM AGED RADIOACTIVE WASTE SOLUTIONS
DP-876 N64-19914 12-07

PROPERTIES OF MINERAL ION EXCHANGE MEMBRANE USE IN LOW TEMPERATURE FUEL CELLS
AD-433803 N64-20900 14-06

OPTIMUM MATERIALS FOR DUAL MEMBRANE FUEL CELL MATERIAL - EVALUATION OF ION EXCHANGE MEMBRANES FOR OSMOTIC WATER PURIFICATION STILL
NASA-CR-43 N64-21252 14-06

ION EXCHANGE PROCESSES IN UPPER ATMOSPHERE
NASA-TT-F-8525 N64-22929 16-12

ION EXCHANGE PROCESSES IN IONOSPHERE
NASA-TT-F-8906 N64-25611 17-12

RARE EARTH COMPOUND PURIFICATION BY ION EXCHANGE EQUIPMENT N64-27207 19-07

ION EXCHANGE WITH SLOW PARTICLE DIFFUSION TO STUDY PLUTONIUM BEHAVIOR
LA-3046 N64-28024 20-07

MECHANISM OF IONIC EXCHANGE OF POTASSIUM AND SODIUM - NATURE OF NEUTRON DISCHARGE N64-28038 20-16

ION EXCHANGE PROCESSES IN IONOSPHERE N64-29085 21-12

INTERACTION ENERGIES, CHARGE EXCHANGE CROSS SECTIONS, & DIFFUSION CROSS SECTIONS FOR COLLISIONS OF ATOMS OF NITROGEN & OXYGEN WITH CORRESPONDING POSITIVE IONS N64-29715 21-11

TRACE ANALYSIS OF PLUTONIUM AND URANIUM BY ION EXCHANGE SEPARATION FROM FISSION PRODUCTS AND SOIL
NDL-SP-7 N64-30586 22-07

INORGANICALLY BOUND IODINE-131 SEPARATED FROM URINARY CONSTITUENTS BY ION EXCHANGE ON SILVER CHLORIDE COLUMN
ANL-6887 N64-30602 22-16

STRUCTURE AND ION EXCHANGE PROPERTIES OF MOLTEN SODIUM BORATE USING RARE RADIOACTIVE TRACERS
USNRDL-TR-760 N64-30880 22-07

ION EXCHANGE CHARACTERISTICS OF MINERALS IN FUSED SODIUM NITRATES USING SODIUM 22, RUBIDIUM 86, CESIUM 137, AND BARIUM 133 AS TRACERS
USNRDL-TR-754 N64-33424 24-07

ION EXCHANGE RESIN
PLANT STUDY - EFFECT OF TEMPERATURE, MOISTURE AND LIGHT ON COMPOSITION OF PLANTS GROWN BY USE OF ION EXCHANGE RESINS AS MEDIA
RADC-TDR-63-183 N64-21353 14-16

SEPARATION OF LANTHANIDE SERIES AND YTTRIUM USING PHOSPHONIC AND IMINODIACETIC ACID RESINS
BM-RI-6510 N64-27971 20-07

SEPARATION OF VARIOUS PHOSPHATES BY CHROMATOGRAPHY AND ION EXCHANGE RESIN EXEMPLIFIED BY MONITORING PHOSPHORUS 32 N64-32010 23-07

ION EXTRACTION
EFFECT OF ION EXTRACTION SYSTEM GEOMETRY ON BEAM CURRENT INTENSITY
FTD-TT-64-331/1&2 N64-21978 15-24

ION MOBILITY
HYDRONIUM ION MOBILITY IN ICE CRYSTALS
NIJS-R-414 N64-12134 03-23

ION MOBILITY IN SUPERFLUID HELIUM BY COMPLETE SPACE CHARGE LIMITATION METHOD
LNF-63/79 N64-14453 06-23

TEMPERATURE & DENSITY DEPENDENCE OF ION MOBILITY IN LIQUID HELIUM 3
LNF-63/83 N64-14454 06-23

PULSED DISCHARGE TECHNIQUE USED TO MEASURE CESIUM ION MOBILITY IN CESIUM
AD-423289 N64-14622 06-13

ELECTRIC CHARGE DEFECT MOBILITY IN ELECTRIC FIELD OF SEMICONDUCTOR P-N JUNCTION N64-18129 10-23

HYDRONIUM ION ENERGY BANDS IN ICE CRYSTALS
NIJS-R-424 N64-21207 14-23

MOBILITY OF POSITIVE IONS IN THEIR OWN GAS - DETERMINATION OF AVERAGE MOMENTUM TRANSFER CROSS-SECTION
NASA-TN-D-2408 N64-26776 18-11

MEASUREMENT OF ION CONCENTRATIONS AND MOBILITIES IN ATMOSPHERE BY ELECTRICAL SHUTTER METHOD N64-26971 19-15

CARBON ION MOBILITY CHANGE IN TITANIUM, TANTALUM, & TUNGSTEN
NASA-TT-F-263 N64-34021 24-18

ION MOTION
SA PENNING DISCHARGE
EXTRACELLULAR ION MOTION IN CEREBRAL CORTEX
N64-14590 06-16

EFFECT OF CARBON DIOXIDE AND ION SHIFTS ON CENTRAL NERVOUS SYSTEM N64-14591 06-16

WATER & ION SHIFTS IN CENTRAL NERVOUS SYSTEM OF FROG - MORPHOLOGY N64-14593 06-16

KINETIC THEORY OF ION TRANSPORT ACROSS BIOLOGICAL CELL SURFACES
NADC-MA-6325 N64-15051 07-16

PHASE MOTIONS OF IONS IN ISOCHRONOUS CYCLOTRONS AND PHASE CONTROL BY MODULATION OF GAP VOLTAGE
ORNL-3444 N64-16003 07-23

MAGNETOHYDRODYNAMICS, ELECTRON & ION EMISSION FROM TUNGSTEN FILAMENT, AND ION PENETRATION THROUGH IONIC DIPOLE LAYER AT ELECTRODE SURFACE
N64-17901 10-23

PENETRATION OF CESIUM IONS THROUGH IONIC DIPOLE LAYER AT ELECTRODE SURFACE N64-17905 10-23

PASSIVE ION FLUX THROUGH AXON MEMBRANES
N64-29538 21-16

ION SOURCE
THERMIONIC EMISSION ION SOURCES FOR ISOTROPIC ANALYSIS OF LITHIUM
NBL-205 N64-15564 07-07

MASS SPECTROMETRY OF HIGH TEMPERATURE SYSTEMS AND ION SOURCES
SSD-TDR-63-349 N64-15687 07-07

IMPROVEMENT OF ION SOURCE AND VACUUM SYSTEM OF MASS SPECTROMETER
NASA-CR-55774 N64-16033 07-07

HIGH VOLTAGE PULSE MODE OF PENNING ION SOURCE
FTD-MT-63-65/162 N64-18675 11-23

ATTRITION OF TANTALUM FILAMENTS OPERATING WITH ELECTRON-BOMBARDMENT ION SOURCES USING MERCURY PROPELLANT
NASA-TN-D-2173 N64-19483 12-27

OPERATION OF SKIMMER NOZZLE AND APPLICATION TO CONDENSATION COLLOIDAL ION SOURCE
R-90 N64-21046 14-26

ION SOURCE FOR PROTON ACCELERATOR INJECTOR
FTD-TT-63-68/1&2&4 N64-23418 16-23

PLASMA ION SOURCES AND ION BEAM FORMATION
FTD-MT-63-181 N64-24245 17-24

PULSE HIGH FREQUENCY ION SOURCE FROM VIBRATIONAL CIRCUIT WITH SHOCK EXCITATION N64-24571 17-09

SELECTION AND PLASMA FOCUSING OF IONS IN SOURCE OF MULTIDISCHARGE IONS
FTD-TT-64-541/1&2&4 N64-26165 18-23

ION SOURCE WITH 1.5-AMP PROTON EMISSION CURRENT
FTD-TT-64-586/1&2&4 N64-26234 18-23

CONDENSATION COLLOIDAL ION SOURCE FOR PRODUCTION OF PROPELLANT PARTICLES FOR ELECTROSTATIC ION ENGINE
ASD-TDR-63-825 N64-28815 20-27

COLD ELECTRON MASS SPECTROMETRIC ION SOURCE
NASA-CR-56796 N64-29563 21-09

PROBLEMS OF ION BEAM FORMATION FROM ELECTRON BOMBARDMENT ION SOURCES
NASA-CR-54143 N64-31088 22-27

CONTROLLED-GROWTH COLLOIDAL ION SOURCE FOR ELECTROSTATIC PROPULSION N64-31604 23-27

TUBE DESIGN WITH IDENTICAL GAS PRESSURE IN ION SOURCE AND ACCELERATING SYSTEM N64-31780 23-23

SEALED-OFF TUBES OF DIFFERENT ION SOURCES AND PLASMA & HIGH VOLTAGE ACCELERATING TUBES AS NEUTRON GENERATORS N64-31782 23-23

PORTABLE PULSE GENERATOR OF FAST NEUTRONS
N64-31784 23-23

PORTABLE ACCELERATING NEUTRON TUBE OF UNIVERSAL ACTION - VACUUM SYSTEM FOR GAS PUMPING AND ION SOURCE N64-31785 23-23

HOT CATHODE ION SOURCE FOR ISOTOPE SEPARATOR
N64-32009 23-10

IONIC PROPULSION
BIBLIOGRAPHY ON ION PROPULSION
RB-63-3 N64-10220 01-27

PERMANENT MAGNETIC CIRCUIT FOR LOW CURRENT DENSITY ELECTRON BOMBARDMENT ION ROCKET ENGINE
N64-11591 03-27

IONIC PROPULSION - ELECTRICAL NETWORK WITHIN DIGITAL COMPUTERS FOR DETERMINING ELECTRON TRAJECTORIES
ONERA-TN-73 N64-12916 04-23

PROPELLANT FLOW METER FOR ION ROCKET SYSTEMS
NASA CR-54070 N64-23197 16-27

CESIUM ION ROCKET PROPULSION SYSTEM
NASA-CR-54025 N64-25015 17-27

ELECTRODE ARCING EFFECTS ON ION ROCKET THRUSTOR SYSTEM DESIGN
NASA-TM-X-52045 N64-28081 20-27

IONIC REACTION
IONIC POLYMERIZATION, & POLYMERIZATION IN SOLID PHASE - RADIATION POLYMERIZATION
JPRS-18868 N64-10581 01-07

MOLECULAR AND IONIC INTERACTION IN DIELECTRICS
N64-14185 06-23

ISOLATION OF BORON HYDRIDE ION - SALT FORMATION WITH TETRAMETHYLAMMONIUM CHLORIDE & SEPARATION BY POTASSIUM HYDROXIDE REACTION N64-14433 06-07

DRIFT TUBE OF MASS SPECTROMETER USED AS REACTION CHAMBER FOR KINETIC STUDIES OF ION DISSOCIATION
AFCRL-63-926 N64-15495 07-07

REACTIONS OF IONS WITH GASEOUS ATOMS AND MOLECULES AND REACTIONS GIVING NONEQUILIBRIUM IONIZATION - SQUID PROJECT N64-18861 11-07

CHEMOELECTRIC ENERGY CONVERSION FOR NONAQUEOUS BATTERIES - IONIC MELT ELECTROCHEMISTRY, REDUCTION OF AROMATIC NITRO COMPOUNDS, AND AMMONIA CELLS
NAVWEPS-8203 N64-29326 21-06

FLIGHT-TIME SHIFT EQUATIONS FOR SPURIOUS FRAGMENT PEAKS ARISING FROM CHARGE TRANSFER AND ION DISSOCIATION REACTIONS OCCURRING INSIDE POTENTIAL BARRIER OF REACTANT REGION
AFCRL-64-519 N64-31806 23-24

MASS SPECTROMETRIC STUDIES OF IONIC REACTIONS IN GASEOUS ACETYLENE FOR SQUID PROJECT
HUN-8-P N64-32564 23-07

IONIC WAVE
SPACE CHARGE SHEATHS - MAGNETIC FIELDS, IONIC WAVES, AND RELATED PLASMA PHYSICS
EUR-495.I N64-21114 14-24

FINITE LARMOR ORBIT RADIUS EFFECT ON INSTABILITY OF ALFVEN IONIC WAVE
IPPJ-28 N64-33498 24-24

IONIZATION
SA ATMOSPHERIC IONIZATION
SA GASEOUS IONIZATION
SA IONIZING RADIATION
SA PHOTOIONIZATION

CF DEIONIZATION
CF EXCITATION
INCREASE OF IONIZATION IN PATH OF TRAVEL OF ARTIFICIAL SATELLITE THROUGH GEOMAGNETIC FIELD
N64-11620 03-12

SELECTED ARTICLES ON PLASMA PHYSICS, THERMAL IONIZATION, ELECTRIC EXPLOSIONS, & CONVECTIVE HEAT TRANSFER
FTD-TT-62-1778/1&2 N64-11711 03-01

THERMAL IONIZATION & ELECTRIC CONDUCTIVITY OF SOME COMBUSTION MIXTURES & PRODUCTS N64-11714 03-24

QUIESCENT PLASMA SOURCE USING CONTACT IONIZATION OF CESIUM
MATT-219 N64-12089 03-24

IONIZED FLOW FIELD ABOUT HEMISPHERE CYLINDER AND EFFECT ON RADIATION PATTERN OF SLOT ANTENNA
AFCRL-63-339 N64-12195 03-09

CONVECTIVE HEAT TRANSFER RATE TO SHOCK TUBE END WALL FROM MONATOMIC GAS HEATED BY REFLECTED SHOCK - IONIZATION EFFECTS
BSD-TDR-63-47 N64-12253 03-11

IONIZATION IN D REGION DURING AURORAL BREAKUP EVENTS
AFCRL-63-869 N64-12297 03-12

NONEQUILIBRIUM, NONSIMILAR SOLUTIONS OF LAMINAR BOUNDARY LAYER EQUATIONS
RAD-TM-63-58 N64-13601 05-11

HYDROGEN ATOM IONIZATION BY ELECTRON IMPACT
FTD-TT-63-868 N64-13921 05-23

STATISTICAL MECHANIC DERIVATION OF SURFACE IONIZATION THEORY FOR CESIUM ION EMISSION FROM POROUS TUNGSTEN
EOS-RR-17 N64-14341 06-23

CREATION, PROPAGATION, AND DETECTION OF ALFVEN WAVES IN PARTIALLY IONIZED, LOW DENSITY MEDIUM
AFCRL-63-782, VOL. 1 N64-16063 07-24

ELECTRIC FIELD IONIZATION INTENSITY OF LAMINATED DIELECTRIC MADE OF IMPREGNATED PAPER
FTD-TT-62-1263/1&2&4 N64-16393 08-23

EXCITATION MECHANISM IN DI- AND TRIATOMIC RADICALS AND IONS - COMETARY PHYSICS
AFCRL-64-227 N64-16492 08-05

CESIUM VAPOR EFFECTS ON IONIZATION GAGES AT LOW PRESSURES
NASA-TN-D-2264 N64-17728 09-15

IONIZATION IN HYPERSONIC WIND TUNNELS
NASA-CR-53363 N64-17816 09-24

DISSOCIATION, IONIZATION, AND INTERMOLECULAR FORCES EFFECT ON SHOCK WAVES IN IMPERFECT AIR - GAS DYNAMICS
AEDC-TDR-64-43 N64-18039 10-23

SURFACE PHENOMENA LEADING TO SEMICONDUCTOR DEVICE FAILURE AND LATERAL THERMAL INSTABILITIES IN POWER TRANSISTORS
RADC-TDR-64-6 N64-18255 10-25

MASS SPECTROMETER OBSERVATION OF SLOW IONS PRODUCED BY CHARGE TRANSFER AND IONIZATION COLLISION
REPT. 18 N64-18307 10-23

POWDER METALLURGY - FABRICATION AND TESTING OF POROUS SPHERICAL POWDER TUNGSTEN IONIZERS
NASA-CR-54016 N64-20583 13-06

SURVEY OF F- 2 LAYER IONIZATION
N64-20762 14-12

THEORIES ON MOVEMENT OF IONIZATION IN IONOSPHERIC F-LAYER N64-20763 14-12

FLUCTUATION OF IONIZATION IN F- 2 LAYER
N64-20764 14-12

SURFACE IONIZATION OF CESIUM - IONIZATION EFFICIENCIES OF TUNGSTEN, RHENIUM, & NIOBIUM, AND INFLUENCE OF ADSORBED GASES
NASA-CR-54047 N64-22444 15-24

EVALUATING CALIBRATION METHODS FOR IONIZATION GAUGE
RSIC-144 N64-22723 15-15

LUMINESCENCE, IONIZATION, AND RADIATION PHYSICS
JPRS-24842 N64-24564 17-23

NONEQUILIBRIUM SODIUM IONIZATION IN LAMINAR BOUNDARY LAYER
BSD-TDR-64-50 N64-24798 17-11

DIFFUSION EXPERIMENT TO DETERMINE CROSS SECTION FOR ELECTRON-GAS COLLISIONS
AROD-3331-5 N64-25093 17-23

CHEMICAL REACTIONS AND IONIZATION PHENOMENA DURING LAUNCH AND REENTRY - BIBLIOGRAPHY
BMI-197-10-2 N64-25110 17-23

NONEQUILIBRIUM IONIZATION IN MAGNETOPLASMADYNAMIC ELECTRIC POWER GENERATOR
MND-3141 N64-25814 17-24

COMPARATIVE STUDY OF EXPRESSIONS FOR HYDROGEN IONIZATION CROSS SECTION AND COEFFICIENT OF IONIZATION BY ELECTRON IMPACT
NASA-TT-F-8911 N64-25867 18-23

ORIGIN OF LARGE IONIZATION BURSTS OBSERVED UNDER DENSE MATERIALS NEAR SEA LEVEL N64-25943 18-28

GAS DYNAMICAL EFFECTS OF RADIATION & TRANSITION TO ESTABLISHMENT OF IONIZED GAS REGION - RADIATIVE IONIZATION FRONTS IN HYDROGEN N64-26338 18-11

IONIZATION GRADIENT INCREASE IN MAGNETOSPHERE DURING MAGNETIC STORMS
NASA-TT-F-8926 N64-26712 18-12

APPROXIMATE THERMODYNAMIC FUNCTIONS OF IONIC SPECIES IN HYDROCARBON FLAME SYSTEMS
TRG4-02D N64-27570 19-26

HIGH PERFORMANCE CESIUM IONIZERS MADE FROM SIZED SPHERICAL TUNGSTEN POWDERS
AIAA PAPER-64-692 N64-28365 20-27

STRUCTURE AND DEVELOPMENT OF COMET TAILS - SODIUM EMISSION BRIGHTNESS AND STRUCTURE, IONIZATION, MOLECULAR LIFETIME, TAIL AXIS, AND COMET ALCOCK
AFCRL-64-646 N64-28544 20-05

CREATING BEAMS OF HIGH-SPEED IONS BY CONTACT IONIZATION THRUSTORS AND ELECTRON BOMBARDMENT THRUSTORS FOR ELECTRIC PROPULSION OF SPACECRAFT
NASA-RP-290 N64-28946 20-27

IONIZATION OF AND RADIATION FROM SODIUM DURING REENTRY - CHEMISTRY OF SODIUM IN HYDROGEN/CARBON MONOXIDE/AIR FLAMES
AROD-5137-1 N64-29013 20-07

WIND SHEAR & IONIZATION PROFILES IN SPORADIC E LAYERS N64-30069 21-12

STABILITY OF IONIZATION FRONTS ALLOWING FOR ABSORPTION OF IONIZING PHOTONS IN H REGION
N64-30082 21-23

APPLICATIONS OF ION THRUSTOR - MISSION ANALYSIS
APL-TDR-64-52, VOL. II N64-30473 22-27

SPATIAL DISTRIBUTION OF ANOMALOUS IONIZATION IN F- 2 LAYER AT HIGH LATITUDE
NASA-TT-F-8947 N64-30840 22-12

METEOROLOGICAL MEASUREMENT OF CONDENSATION NUCLEI, IONIZATION DISTRIBUTION, AND TRACE GAS IMPURITIES IN EARTH ATMOSPHERE
AD-420435 N64-31177 22-21

RESEARCH IN ATOMIC, PLASMA, AND SURFACE PHYSICS, ELECTRIC VACUUM GYROSCOPE, COMPUTER STATISTICS, IONIZATION GAUGES, AND SEMICONDUCTORS

AD-420532 N64-31244 22-23

CHEMICAL IONIZATION REACTIONS OF MISSILE EXHAUST PRODUCTS AND ATMOSPHERIC CONSTITUENTS - FIREFLY PROJECT N64-31400 23-12

FLIGHT-TIME SHIFT EQUATIONS FOR SPURIOUS FRAGMENT PEAKS ARISING FROM CHARGE TRANSFER AND ION DISSOCIATION REACTIONS OCCURRING INSIDE POTENTIAL BARRIER OF REACTANT REGION
AFCRL-64-519 N64-31806 23-24

MAGNETOHYDRODYNAMICS - MAGNETICALLY INDUCED IONIZATION IN POWER GENERATOR AND BARIUM DIODES
SAR-2 N64-32153 23-24

POROUS TUNGSTEN IONIZERS FOR ELECTRIC PROPULSION SYSTEM
AIAA PAPER-64-691 N64-32723 24-27

IONIZATION AND ATTACHMENT COEFFICIENTS IN GASES N64-32753 24-07

PROPHYLACTIC ACTION OF AEROIONIZATION IN ACUTE RADIATION SICKNESS OF WHITE RATS N64-32781 24-16

METAL SURFACE IONIZATION IN ELECTRIC FIELD, CESIUM IONIZED PLASMA FORMATION, AND IONIZATION COEFFICIENTS OF RARE EARTH ELEMENTS
JPRS-26723 N64-32806 24-23

PHOTOELECTRIC AND THERMIONIC SCANNER MEASUREMENTS OF SURFACE IONIZATION FROM POLYCRYSTALLINE MOLYBDENUM IN CESIUM VAPOR ATMOSPHERE
NASA-CR-59008 N64-32893 24-09

RATE CONSTANTS OF IONIZATION AND RECOMBINATION REACTIONS IN HEATED AIR YIELDING HYDROGENIC IONS
TR-3153 N64-33465 24-24

COMPARATIVE ANALYSIS OF IONIZATION CURRENTS FOR PAIRS OF PARALLEL CYLINDRICAL ELECTRODES SUBJECTED TO COBALT 60 RADIATION
NARF-63-16T N64-33556 24-23

HYDROGEN ATOM IONIZATION BY ELECTRON COLLISION
NASA-TM-X-55081 N64-33633 24-24

IONIZATION DETECTORS IN GAS CHROMATOGRAPHY SYSTEMS ANALYZING CHEMICAL COMPONENTS OF LUNAR SURFACE
NASA-CR-59301 N64-33683 24-11

IONIZATION AND CONDUCTIVITY OF INORGANIC NITROGEN-FLUORINE COMPOUNDS FOR PROPELLANT OXIDIZERS
EC-670 N64-33926 24-07

IONIZATION CROSS SECTION
CALCULATION OF ATOMIC PHOTOIONIZATION CROSS SECTIONS FOR REAL GASES
AID-P-64-12 N64-18385 10-23

IONIZATION CROSS SECTION DETECTORS FOR GAS CHROMATOGRAPHY
NASA-CR-53635 N64-19624 12-15

IONIZATION CROSS SECTIONS FOR NEUTRAL HELIUM ATOMS ON IMPACT WITH HELIUM, NEON AND NITROGEN N64-32384 23-11

IONIZED GAS
EFFECTS OF BIPOLAR IONIZED AIR ON CHANGE IN BLOOD COMPLEMENT TITER AND ON ANAPHYLACTIC SHOCK IN RABBITS
JPRS-21777 N64-10152 01-02

ARGON METASTABLE ATOMS IN IONIZATION OF ORGANIC MOLECULES N64-13139 04-16

LOW-FREQUENCY INSTABILITIES OF FULLY IONIZED GAS
NATT-214 N64-13154 04-24

ANALYSIS OF ELECTRIC-FIELD EFFECT AND CALCULATION OF PLASMA TEMPERATURE IN PARTLY IONIZED GASES NEAR THERMAL EQUILIBRIUM
RE-OR-4 N64-13226 04-23

INTERACTION OF SOLID PARTICLES WITH IONIZED GAS - SQUID PROJECT
ILL-12-P N64-13242 04-23

MAGNETOHYDRODYNAMICS OF PARTIALLY IONIZED GASES - SQUID PROJECT N64-13491 05-24

AURORA PRODUCTION IN WEAKLY IONIZED GAS BY ACTION OF ALTERNATING ELECTRIC FIELD
AFCRL-63-641 N64-13652 04-12

IONIZATION EFFECT ON LAMINAR FLOW OF DENSE GAS IN CHANNEL
RTD-TDR-63-4009 N64-13764 05-23

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UCRL-6473, SUPPL. 1 N64-14068 05-23

HEAT TRANSFER IN IONIZED GAS WITH DEBYE LENGTH EXCEEDING MEAN FREE PATH N64-14455 06-23

TWO FORMS OF DYNAMIC EQUATIONS FOR COMPONENTS OF PARTIALLY IONIZED MONATOMIC GASES
AD-428797 N64-14473 06-24

UNIPOLAR IONIZED GAS FLOW THROUGH SLENDER CYLINDRICAL CHANNELS - ELECTROGASDYNAMIC APPLICATIONS
ARL-63-205 N64-14658 06-24

HEAT TRANSFER AT STAGNATION POINT OF CYLINDER IN IONIZED MONATOMIC GASES & EFFECT OF FREE ELECTRONS ON THERMOCONDUCTIVITY
AFOSR-5442 N64-15950 07-24

CONVECTIVE ENERGY TRANSFER BETWEEN PARALLEL PLATES OF PARTIALLY IONIZED MONATOMIC HYDROGEN AT DIFFERENT TEMPERATURES
ATN-64/9232/-1 N64-17896 10-24

INTERACTION OF SOLID PARTICLES WITH IONIZED GAS, CHARGE ACQUISITION, AND DYNAMICS OF TWO-PHASE FLOW - SQUID PROJECT N64-18857 11-24

MAGNETOHYDRODYNAMICS OF PARTIALLY IONIZED GASES - PROPULSION AND POWER GENERATION - SQUID PROJECT N64-18865 11-24

TRANSPORT EQUATIONS FOR PARTIALLY IONIZED GAS IN ELECTRIC FIELD DERIVED FROM BOLTZMANN EQUATION
NASA-TN-D-2279 N64-19291 11-11

THERMODYNAMIC PROPERTIES OF DISSOCIATED AND IONIZED ARGON, NITROGEN, & OXYGEN GASES FOR TEMPERATURES TO 35,000 DEG K N64-19828 12-23

WAVE PROPAGATION PERPENDICULAR TO MAGNETIC FIELD IN IONIZED GAS - HYDROMAGNETIC WAVE GENERATION
US-36 N64-20387 13-24

PLASMA PHYSICS - SIMPLIFIED METHOD FOR STUDYING WAVE DISTURBANCES IN PARTIALLY-IONIZED GASES
AMP-136 N64-20455 13-24

RANDOM DISTRIBUTION OF GAS MOLECULES IONIZED BY ELECTRONS IN ELECTRON TUBE
CU-43-64-NONR-266/59/MS N64-20546 13-23

THEORY OF HARMONICS ARISING FROM NONLINEAR DISSIPATION OF SIGNALS IN PARTIALLY IONIZED GAS
USCEC-82-217 N64-21989 15-24

GAS DYNAMIC PROPERTIES FOR INCIDENT AND REFLECTED SHOCK WAVES IN IONIZED NITROGEN
AEDC-TDR-64-104 N64-22298 15-24

IONIZED GAS AND FAST ELECTRONS NEAR EARTH AND IN INTERPLANETARY SPACE
FTD-TT-63-69/162 N64-22340 15-28

STRESS TENSOR OF PARTIALLY IONIZED GAS IN ELECTRIC AND MAGNETIC FIELDS N64-22490 15-24

KINETIC EQUATIONS OF IONIZED PLASMA WITH AND WITHOUT EXTERNAL MAGNETIC FIELD

TR-1 N64-22898 16-24

MASS SPECTROMETER FOR INVESTIGATING COMPOSITION OF NEUTRAL AND IONIZED GASES IN UPPER LAYERS OF ATMOSPHERE
NASA-TT-F-8021 N64-23126 16-12

BOUNDARY CONDITIONS ON IONIZED GAS-SOLID CONTACT SURFACE
FTD-TT-64-128/1&2&4 N64-23307 16-09

SUPERSONIC FLOW PAST BLUNT BODIES AND THERMODYNAMICS OF IONIZED GASES
FTD-TT-63-211/1&2 N64-23598 16-01

MATHEMATICAL ANALYSIS OF THERMODYNAMIC EQUATIONS FOR IONIZED GAS TEMPERATURE EFFECT ON ATOMIC ELECTRONIC STRUCTURE N64-23600 16-11

GAS IONIZATION FOR REMOVAL OF INERT GASES FROM TITANIUM GETTER PUMP
AEDC-TDR-64-83 N64-23974 16-09

HIGH SPEED LOW DENSITY FLOWS OF NEUTRAL AND PARTIALLY IONIZED GASES - GASDYNAMICS AND PLASMADYNAMICS
AFOSR-64-0565 N64-24078 16-24

MONTE CARLO SOLUTION FOR HIGHLY RAREFIED IONIZED GAS FLOWING THROUGH CHANNEL WITH TRANSVERSE MAGNETIC FIELD
NASA-TM-X-52033 N64-24105 16-24

TRANSPORT PROPERTIES OF PARTIALLY IONIZED GAS IN ELECTRIC AND MAGNETIC FIELDS
NASA-TN-D-2369 N64-24820 17-13

SHOCK TUNNEL STUDIES OF HIGH-ENTHALPY IONIZED AIRFLOWS N64-26137 18-24

IONIZATIONAL RELAXATION FOR MODERATELY STRONG SHOCKS IN MONATOMIC GASES
N64-26150 18-24

KINETIC STUDY OF ELECTRONS IN WEAKLY IONIZED GASES - ARGON, ARGON-HYDROGEN, & ARGON-CARBON MONOXIDE
AFCRL-64-444 N64-26236 18-24

GAS DYNAMICAL EFFECTS OF RADIATION & TRANSITION TO ESTABLISHMENT OF IONIZED GAS REGION - RADIATIVE IONIZATION FRONTS IN HYDROGEN N64-26338 18-11

COMPUTATION METHODS FOR TRANSPORT COEFFICIENTS OF PARTIALLY IONIZED GAS
NASA-RP-231 N64-26401 18-24

HEAT TRANSFER MEASUREMENT IN PARTIALLY IONIZED GASES
NASA-CR-58049 N64-27315 19-13

LANGMUIR PROBE CHARACTERISTICS FROM ELECTROCHEMICAL REACTIONS OF IONIZED GAS & BLUNT BODY STAGNATION FLOW
BSD-TDR-64-103 N64-27491 19-11

TRANSPORT PROPERTIES OF PARTIALLY IONIZED GAS IN PRESENCE OF ELECTRIC AND MAGNETIC FIELDS
NASA-CR-58210 N64-27878 20-24

MULTIPLE TEMPERATURE BOUNDARY LAYER BEHIND REFLECTED SHOCK WAVE IN HIGHLY IONIZED ARGON
NASA-CR-58041 N64-28924 20-24

PLANE GAS DYNAMIC AND TRANSVERSE MAGNETOGASDYNAMIC SHOCK WAVE IN FULLY IONIZED HYDROGEN
NASA-CR-58338 N64-28940 20-24

EVAPORATIVE MASS LOSS FROM IONIZED HYDROGEN GAS AND APPLICATION TO SOLAR CORONA
AFCRL-64-617 N64-29440 21-05

END WALL BOUNDARY LAYER BEHIND REFLECTED SHOCK IN IONIZED ARGON
NASA-CR-58759 N64-29696 21-11

HALL EFFECT IN RAYLEIGH PROBLEM FOR IONIZED GAS AT LOW SPEEDS - MAGNETOHYDRODYNAMICS
N64-30375 22-24

FARADAY ROTATION OF COSMIC RADIO WAVE POLARIZATION PLANE - SOLAR SYSTEM CORONA OF IONIZED GAS
NASA-TT-F-8965 N64-30858 22-21

HIGHLY RAREFIED IONIZED GAS FLOW THROUGH CHANNELS WITH TRANSVERSE MAGNETIC FIELDS - MONTE CARLO SOLUTION
NASA-TN-D-2211 N64-32839 24-11

SHOCK TUBE METHODS TO MEASURE ELECTRIC CONDUCTIVITY OF GAS IONIZED BY SHOCK WAVE PASSAGE
N64-32939 24-11

ELECTROMAGNETIC WAVE PROPAGATION IN INHOMOGENEOUS MEDIUM
IA-115 N64-33931 24-11

IONIZED PLASMA
PLASMA RESONANCE IN INCOHERENT SCATTERING OF RADIO WAVES FROM FULLY IONIZED PLASMA
RM-3696-PR N64-10246 01-24

DRIFT-WAVE INSTABILITY OF WEAKLY INHOMOGENEOUS, FULLY IONIZED PLASMA CONFINED BY STRONG MAGNETIC FIELD
MATT-234 N64-13020 04-24

RESONANCES AND WAVES IN IONIZED PLASMAS IN STRONG MAGNETIC FIELDS N64-17355 09-24

INTERACTION OF ELECTRON BEAM OF MODERATE ENERGY WITH FULLY IONIZED PLASMA IMMERSED IN STATIC MAGNETIC FIELD
MATT-239 N64-17502 09-24

PLASMA PHYSICS - SIMPLIFIED METHOD FOR STUDYING WAVE DISTURBANCES IN PARTIALLY-IONIZED GASES
AMP-136 N64-20455 13-24

KINETIC EQUATIONS OF IONIZED PLASMA WITH AND WITHOUT EXTERNAL MAGNETIC FIELD
TR-1 N64-22898 16-24

IONIZING RADIATION
SA PENNING DISCHARGE
EFFECT OF IONIZING RADIATION ON HEREDITARY MOLECULAR STRUCTURES - BIBLIOGRAPHY
JPRS-21754 N64-10121 01-16

CHEMICAL PROTECTION FOR RESISTANCE TO IONIZING RADIATION IN MAMMALS
JPRS-18918 N64-10647 01-16

IONIZING RADIATION AS A FOOD PRESERVATIVE
JPRS-17530 N64-10694 02-16

BIOCHEMICAL ASPECTS OF IONIZING RADIATION METHOD OF FOOD PRESERVATION
JPRS-17591 N64-10702 02-01

BLOOD GLYCOGEN METABOLISM IN MAMMALS AFTER IONIZING RADIATION
JPRS-18479 N64-10769 02-16

SIGNIFICANCE OF PLASMA CELLS IN PRODUCTION OF ANTIBODIES DURING IONIZING RADIATION
JPRS-18020 N64-11023 02-16

MEDICAL USE OF HORMONES FOR OVEREXPOSURE TO IONIZING RADIATIONS
JPRS-19066 N64-11063 02-16

EFFECT OF IONIZING RADIATION ON WOUNDS - SURGERY TEXTBOOK
JPRS-19278 N64-11066 02-16

EFFECT OF IONIZING RADIATION ON NERVOUS SYSTEM
JPRS-19284 N64-11067 02-16

RADIOSENSITIVITY OF ORGANISMS TO IONIZING RADIATION - PROTECTION BY VEGETABLE PIGMENTS IN PLANT CELLS & ANTIOXIDANTS IN ANIMAL ORGANISMS
JPRS-19363 N64-11069 02-16

IONIZING RADIATION EFFECT ON VISUAL PATHWAY & EYE OF CAT
UCRL-11005 N64-11097 02-16

COMPARATIVE STUDY OF IONIZING RADIATION AND

ELECTRIC DISCHARGES ON ORGANIC COMPOUNDS - METHANE, AMMONIA AND WATER N64-11117 02-07

IONIZING RADIATION - EFFECT ON NERVOUS SYSTEM AND CHANGES IN NEURAL TISSUE DUE TO IRRADIATION
JPRS-20317 N64-11136 02-16

ACID STABILITY OF BLOOD ERYTHROCYTES IN HUMAN BODIES BY IONIZING RADIATION
JPRS-18938 N64-11317 02-16

IONIZING RADIATION EFFECT ON LIVER PROTEIN & BIOELECTRIC CURRENT IN MUSCLES
JPRS-18760 N64-11346 02-16

IONIZING & X-RAY RADIATION EFFECTS ON MICE - GLANDS & PROTECTIVE SUBSTANCES
JPRS-20421 N64-11355 02-16

BLOOD LEUKOCYTE CHANGES IN PERSONS DUE TO IONIZING RADIATION UNDER VARIOUS OCCUPATIONAL CONDITIONS
JPRS-22122 N64-11357 02-16

IONIZING RADIATION EFFECT ON CARDIOVASCULAR SYSTEM
JPRS-17659 N64-11607 03-16

EFFECT OF PROLONGED & REPEATED IONIZING RADIATION ON HEMATOLOGIC ORGANS AND BLOOD
N64-11609 03-16

IONIZING RADIATION EFFECTS ON COLLOIDS AND SEDIMENTATION OF SEWAGE
D63-341 N64-12131 03-07

IONIZING RADIATION EFFECT ON DEVELOPMENT OF LEUKEMIA IN MAN
JPRS-22520 N64-12145 03-16

BIOLOGICAL EFFECT OF IONIZING RADIATION ON RATS
JPRS-19163 N64-12432 04-16

ALCOHOL DEHYDRATION, LEUKOSIS IN MICE BY IONIZING RADIATION, AND DIRECT CURRENT EFFECT ON DOGS
JPRS-20153 N64-12722 04-07

LEUKOSIS IN MICE DUE TO IONIZING RADIATION
N64-12724 04-16

SENSITIZATION OF TUMOR CELLS TO ACTION OF IONIZING RADIATION BY RADICAL-REACTION INHIBITORS
N64-12896 04-16

PRESERVATION OF FRUITS AND VEGETABLES BY IONIZING RADIATION
TID-19206 N64-12968 04-16

BIOCHEMISTRY - IONIZING RADIATION EFFECT ON MOUSE TISSUE, THERAPEUTIC AGENTS FOR RADIATION INJURIES, AND IRRADIATION EFFECT ON ANIMAL LIFESPAN
QPR-49 N64-13501 05-16

INHIBITION BY X-RAYS & CHEMICAL AGENTS OF ENZYMES WHICH CATALYZE METABOLISM OF FOREIGN CHEMICALS IN MAMMALIAN TISSUE - TOXICOLOGY & IONIZING RADIATION
N64-13502 05-16

IONIZING RADIATION EFFECT ON THIOPHOSPHATE OXIDIZING ENZYME IN RAT LIVER - BIOCHEMISTRY
N64-13503 05-16

LUMINESCENT MICROSCOPY OF HEMATOPOIETIC SYSTEMS USING IONIZING RADIATION
JPRS-22915 N64-14148 05-16

RADIATION SHIELDING OF HUMAN BEINGS FROM SOLAR FLARE, RADIATION BELT, AND GALACTIC COSMIC IONIZING RADIATION DURING SPACE FLIGHTS
JPRS-23306 N64-15327 07-16

EFFECTS OF MASSIVE DOSES OF IONIZING RADIATION UPON CONDITIONED AVOIDANCE BEHAVIOR OF PRIMATES
DASA-NWER-03.008 N64-15993 07-16

EFFECT OF IONIZING RADIATION ON MAMMALIAN TISSUES, CHEMOTHERAPY FOR RADIATION SICKNESS IN ANIMALS, & INFLUENCE OF RADIATION EXPOSURE ON LIFESPAN
AD-430559 N64-16645 08-16

PRIMARY AND INITIAL PROCESSES OF BIOLOGICAL EFFECT OF RADIATION
JPRS-23426 N64-16902 09-16

STATISTICAL ANALYSIS OF SUPPRESSING MECHANISM OF CELL DIVISION UNDER INFLUENCE OF IONIZING RADIATION
N64-16904 09-16

CELL DAMAGE IN RADIATION REACTION OF ANIMAL ORGANISM
N64-16906 09-16

KINETIC REGULARITIES OF PRIMARY REACTIONS AND CHEMICAL PROTECTION IN RADIATION DAMAGE
N64-16908 09-16

OXYGEN EFFECTS ON SURVIVAL AND RESTORATION RATES IN YEAST CELLS DUE TO IONIZING RADIATION - RADIOBIOLOGY
JPRS-23945 N64-18206 10-16

IONIZING RADIATION EFFECT ON MICROFLORA IN MEATS AND FOOD - BOTANY
JPRS-24187 N64-18968 11-16

DEVELOPMENT OF GASEOUS NEBULA - IONIZING RADIATION ABSORPTION IN UPPER ATMOSPHERE N64-19715 12-05

IONIZING RADIATION EFFECTS ON MAMMALIAN TISSUES, THERAPEUTIC AGENTS FOR RADIATION SICKNESS AND EFFECTS OF LOW LEVEL EXPOSURE ON LIFESPAN OF MICE
QPR-51 N64-20181 13-16

SURFACE DAMAGE EFFECTS ON TRANSISTORS AND DIODES IN IONIZING RADIATION ENVIRONMENT
TG-510 N64-20611 13-12

BIOLOGY OF AGING USING IONIZING RADIATION STUDIES
BNL-854/T-340/ N64-21591 15-16

IONIZING RADIATION CROSS LINKING OF LINEAR POLYETHYLENE N64-22062 15-07

EFFECT OF IONIZING RADIATION ON RETINA AND OTHER PHOTOSENSITIVE SYSTEMS
FTD-TT-63-163/1&2&4 N64-22343 15-16

EFFECTS OF IONIZING RADIATION ON METABOLIC PROCESSES
FTD-TT-62-1575/1&2 N64-22390 15-16

DENTAL TISSUE CHANGES IN RATS AFTER REPEATED SMALL DOSES OF IONIZING RADIATION
NASA-TT-F-8851 N64-23046 16-16

LETHALITY OF EMBRYONIC CELLS IN DROSOPHILA AFTER VOSTOK III AND VOSTOK IV SPACECRAFT FLIGHT DUE TO IONIZING RADIATION
NASA-TT-F-8898 N64-23051 16-16

IONIZING RADIATION EFFECTS ON PERFORMANCE CAPABILITIES OF ASTRONAUTS - ANNOTATED BIBLIOGRAPHY
SRB-63-13 N64-23365 16-14

EFFECTS OF VIBRATION AND IONIZING RADIATION ON VESTIBULAR AND MOTOR-DEFENSE REFLEXES
N64-23761 16-16

SENSITIVITY AND REACTIVITY OF VESTIBULAR ANALYZER UNDER INFLUENCE OF IONIZING RADIATION
N64-23769 16-16

STABILITY OF HETEROGENEOUS DEOXYRIBONUCLEIC ACID TO IONIZING RADIATION
JPRS-25282 N64-24487 17-16

DAMAGES OF IONIZING RADIATION TO ORGANS OF MAMMALS
N64-25313 17-16

IONIZING RADIATION EFFECT ON BIOCHEMICAL PROCESSES AND SUBSTANCES IN LIVING CELLS AND TISSUES
FTD-TT-63-661/1&2 N64-26725 18-16

PHYSIOLOGICAL AND BIOCHEMICAL STUDY OF IONIZING RADIATION EFFECTS ON HUMAN METABOLISM AND BIOLOGICAL MUTATION
UCRL-11387 N64-27799 19-16

IONIZING RADIATION EFFECT ON NERVOUS SYSTEM

FTD-TT-63-582/1&2 N64-28448 20-16

CHEMICAL METHODS TO PROTECT BIOLOGICAL SYSTEMS AGAINST IONIZING RADIATION N64-29074 21-16

CHEMICAL MEASUREMENT OF IONIZING RADIATION - CHEMICAL DOSIMETRY
JPRS-26363 N64-29541 21-07

CHRONIC EFFECTS OF IONIZING RADIATION ON HEMATOPOIETIC SYSTEM
AD-602135 N64-29673 21-16

EFFECT OF IONIZING RADIATION ON BIOCHEMISTRY OF MAMMALIAN TISSUE - PHARMACOLOGICAL & TOXICOLOGICAL AGENTS FOR RADIATION PROTECTION - EFFECT OF GAMMA & NEUTRON IRRADIATION ON ANIMAL LIFESPAN
QPR-52 N64-29872 21-16

IONIZING RADIATION DOSIMETRY BASED ON MEASUREMENT OF THERMOLUMINESCENCE OF ALUMINA-PHOSPHATE GLASSES
NRL-TRANS-972 N64-30180 21-15

REMOTE IMMUNOLOGICAL CONSEQUENCES OF EFFECT OF IONIZING RADIATION N64-30246 22-16

LEUKOSES AND TUMORGENESIS BY IONIZING RADIATION, AND PATHOGENESIS OF RADIATION TUMORS
JPRS-26532 N64-30613 22-16

NERVOUS RESPONSE OF BLIND RAT TO STIMULATION BY IONIZING RADIATION
USNRDL-TR-670 N64-31175 22-16

IONIZING RADIATION EFFECTS ON LIQUID PYRIDINE - PRODUCTION OF POLYPRIDINES AND HYDROGEN AND ACETYLENE GASES
USAEL-TR-2485 N64-32442 23-07

GAMMA GLOBULIN AND IONIZING RADIATION EFFECTS ON ANTIBODY PRODUCTION IN IRRADIATED & NONIRRADIATED TISSUE
JPRS-26956 N64-32750 24-16

EFFECTS OF IONIZING RADIATION ON CENTRAL NERVOUS SYSTEM IN VIVO AND AT THE CELLULAR LEVEL
NASA-CR-58974 N64-33095 24-16

IMMUNOLOGY AND THERAPY FOR IONIZING RADIATION
JPRS-27203 N64-33577 24-16

IONOSONDE
WOOMERA IONOSONDE IONOSPHERIC DATA FOR NOV 1962
CPD 1962/11/W/ N64-11996 03-12

WOOMERA IONOSONDE IONOSPHERIC DATA FOR DEC 1962
CPD 1962/12/W/ N64-11997 03-12

LOW FREQUENCY IONOSONDE INVESTIGATIONS AND ROCKET MEASUREMENTS IN D-REGION AND LOWER E-REGION
AFCRL-63-924 N64-15952 07-12

FIREFLY PROJECT IONOSONDE MEASUREMENTS OF ELECTRON DENSITY IN E AND F LAYERS FROM EXPLOSIONS AND CHEMICAL CLOUDS N64-31383 23-12

CHARACTERISTICS OF IONOSONDE AND HOURLY VALUES OF IONOSPHERIC DATA - AUSTRALIA
CPD-1963/12/S N64-33737 24-12

IONOSPHERE
SA D LAYER
SA E LAYER
SA F LAYER
SA LOWER IONOSPHERE
CF ATMOSPHERE
CF EARTH ATMOSPHERE
CF UPPER ATMOSPHERE
DEVELOPMENT OF ARIEL I IONOSPHERE SATELLITE
NASA-SP-43 N64-10332 01-32

AUTOMATIC MAPPING OF GEOMAGNETIC FIELD & ELECTRIC CURRENT FLOW IN IONOSPHERE
NASA-RP-68 N64-10360 01-12

ARIEL IONOSPHERIC SATELLITE PROGRAM
IAC PAPER-136 N64-11944 03-32

RECORDINGS OF DIURNAL AND PHASE CHANGES IN IONOSPHERE CURRENTS
RADC-TDR-63-389 N64-12307 03-08

PLASMA SHEATH PROPERTIES ABOUT VEHICLES MOVING THROUGH THE IONOSPHERE
NASA-CR-55100 N64-12394 03-24

INTERNATIONAL SATELLITES FOR IONOSPHERIC STUDIES /ISIS/ PROGRAM - ALOUETTE B & ISIS A, B, & C SATELLITES N64-13291 04-32

THEORETICAL STUDY OF MARTIAN IONOSPHERE COMPARED TO TERRESTRIAL IONOSPHERE
NASA-CR-55362 N64-14270 06-29

IONOSPHERIC INTERPRETATION OF RADIO OBSERVATION OF VENUS
NASA-CR-53052 N64-14843 06-29

TURBULENCE, DIFFUSION, AND GRAVITY WAVES IN TRANSITION REGION BETWEEN STRATOSPHERE AND IONOSPHERE
P-2774 N64-16249 08-12

ARIEL I SATELLITE FOR IONOSPHERIC EXPLORATION
NASA-TM-X-54621 N64-16700 08-32

SATELLITE BORNE ORBIS BEACON FOR INVESTIGATING IONOSPHERIC DUCTING
AFCRL-64-29 N64-16804 08-12

EXPLORER VIII SATELLITE MEASUREMENTS OF IONOSPHERE ION COMPOSITION, SPACECRAFT-PLASMA INTERACTIONS, & ELECTRON TEMPERATURES
NASA-TM-X-54573 N64-17602 09-12

DETERMINATION OF IONOSPHERIC RECOMBINATION COEFFICIENT
PSU-SR-204 N64-17784 09-12

GENERAL ANALYSIS OF IONOSPHERIC CONDITIONS
AFCRL-63-834 N64-17919 10-12

EXPERIMENTS & RESEARCH IN ASTRONOMY, SOLAR PHYSICS, PLANETARY ATMOSPHERES, IONOSPHERES & RADIO PHYSICS, PARTICLES & FIELDS, AND BIOSCIENCES
NASA-TM-X-51603 N64-19258 11-01

MEASUREMENT OF NOISE EMISSIONS FROM IONOSPHERIC IONS AT AUDIOFREQUENCIES N64-19689 12-12

EFFECT OF IONOSPHERE ON POLARIZATION OF VERY LOW AND EXTREMELY LOW FREQUENCY RADIO WAVES
N64-19701 12-12

EXTREMELY LOW FREQUENCY RADIO NOISE AND ALTITUDE ESTIMATES FOR LOWER EDGE OF IONOSPHERE
N64-19705 12-12

MAGNETIC FIELD VARIATIONS IN EARTH-IONOSPHERE RESONANT CAVITY N64-19706 12-12

CORRECTION TO REPORT ON ATMOSPHERIC GRAVITY WAVES AT IONOSPHERIC ALTITUDES
NASA-CR-53839 N64-20737 13-12

RECOMBINATION PROCESSES IN IONOSPHERE
N64-20758 14-12

INCOHERENT SCATTERING AS TECHNIQUE IN IONOSPHERIC INVESTIGATIONS N64-20767 14-12

POLAR CAP ABSORPTION CAUSED BY INCREASE IN IONIZATION OF LOWER IONOSPHERE N64-20771 14-12

SPACE SCIENCES, SOLAR RADIATION, ATMOSPHERIC ABSORPTION & IONOSPHERIC STUDIES
SER. 5, ISSUE 25 N64-21383 14-12

DISSIPATION OF HYDROMAGNETIC WAVE ENERGY IN IONOSPHERE N64-21834 15-12

MATHEMATICAL FORMULAS FOR GROUP VELOCITY, PATH, AND ATTENUATION OF ELECTROMAGNETIC WAVES IN IONOSPHERE
LAFE-10 N64-22011 15-12

EXPLORER VIII SATELLITE MEASUREMENTS IN UPPER

IONOSPHERE
NASA-TN-D-2150 N64-22019 15-32

OUTGOING LONG & SHORT WAVE RADIANT FLUXES ONTO SURFACES IN IONOSPHERE N64-22033 15-28

MEASUREMENT OF ELECTROSTATIC FIELD INTENSITY AT ROCKET SURFACE IN ATMOSPHERIC FLIGHT
NASA-TT-F-8527 N64-23113 16-12

RADIO EMISSION MEASUREMENTS - IONOSPHERIC MODEL OF VENUS N64-23785 16-05

PREDICTION OF IONOSPHERIC STATE FOR SHORT WAVE RADIO COMMUNICATION N64-23850 16-12

METEOROLOGICAL INSTRUMENTATION AND TELEMETRY SYSTEMS SUITABLE FOR 70- TO 150-KM ALTITUDE
EOS-3800, PT. 1 N64-23886 16-15

METEOROLOGICAL EXPLORATION OF COLD AIR LAYERS IN IONOSPHERE N64-23889 16-12

WIND FLOW IN 80- TO 400-KM ALTITUDE REGION OF ATMOSPHERE
NASA-TM-X-51724 N64-24047 16-12

MARS AND VENUS IONOSPHERES
NASA-TN-D-2333 N64-24816 17-29

SURFACE INCLINATIONS OF EQUAL ELECTRON CONCENTRATIONS IN IONOSPHERE & IONIZATION DISTRIBUTION WITH HEIGHT
NASA-TT-F-8691 N64-24908 17-12

SPATIAL AND TEMPORAL VARIATION OF IONOSPHERE BY POLAR IONOSPHERE BEACON SATELLITE - BE-A
NASA-TM-X-55009 N64-24990 17-32

ION EXCHANGE PROCESSES IN IONOSPHERE
NASA-TT-F-8906 N64-25611 17-12

IONOSPHERIC CONTRIBUTIONS TO DOPPLER SHIFT AT VERY HIGH FREQUENCY FROM NEAR-EARTH SATELLITE
CM-1040 N64-25891 18-08

FIXED AND VARIABLE FREQUENCY PULSE TRANSMISSION AT OBLIQUE IONOSPHERIC INCIDENCE
IIB-8 N64-26224 18-08

ASTRONOMY, IONOSPHERIC AND COSMIC PHYSICS, BALLOONS, ROCKETS, AND SATELLITES
NASA-TT-F-9023 N64-27137 19-29

BIBLIOGRAPHY ON IONOSPHERE AND UPPER ATMOSPHERE
B-4 N64-27521 19-12

OBSERVATIONS OF WHISTLERS AND IONOSPHERIC NOISE IN VERY LOW FREQUENCY RANGE AT AURORAL ZONE STATION
AFCRL-64-269 N64-27704 19-08

RADIO WAVE PROPAGATION STUDIES - RESEARCH IN IONOSPHERICS, EARTH GRAVITATIONAL FIELD, RADIO METEOROLOGY, MAGNETISM, IONOSONDE ROCKETS AND SATELLITES N64-28768 20-08

ANTENNA HEIGHT DIVERSITY FOR IONOSPHERIC SCATTERING COMMUNICATION SYSTEM
TM-92 N64-28823 20-08

FIELD STRENGTH ON SURFACE OF STATIC AND MOVING BODY IN PLASMA AND OF BODY IN IONOSPHERE N64-29080 21-24

ION EXCHANGE PROCESSES IN IONOSPHERE N64-29085 21-12

MEAN DIURNAL VARIATION OF TOPSIDE IONOSPHERE AT MID-LATITUDES USING ALOUETTE SATELLITE DATA
NASA-TM-X-55042 N64-29517 21-12

UPPER IONOSPHERE DIURNAL, SEASONAL, AND GEOGRAPHICAL VARIATIONS IN SCALE HEIGHT AND TOTAL ELECTRON NUMBER N64-29723 21-12

COMPUTER PROGRAM FOR PREDICTION OF VERTICAL DENSITY DISTRIBUTION IN IONOSPHERE AND EXOSPHERE
NASA-TM-X-53062 N64-29728 21-29

ALTITUDE DISTRIBUTION OF CHARGED PARTICLES IN IONOSPHERE FROM ION TRAP EXPERIMENTS ON COSMOS II SATELLITE
FTD-MT-64-5 N64-30152 21-12

IONOSPHERE RESEARCH BY RUSSIAN SPACE PROBES
NAS-NRC-1183 N64-30451 22-01

DRIVING-POINT IMPEDANCE OF ELECTRICALLY SHORT CYLINDRICAL ANTENNA IN IONOSPHERE - SATELLITE RADIO COMMUNICATION SYSTEMS
TR-EE-109 N64-30734 22-08

IONOSPHERIC PHYSICS, RADIO PROPAGATION, AERONOMY, RADIO ASTRONOMY, AND SPACE RESEARCH N64-30765 22-12

NIGHT IONOSPHERE WIND PATTERNS FROM FIREFLY PROJECT OBSERVATIONS N64-31394 23-12

HIGH LATITUDE IONOSPHERIC CURRENT PATTERNS
AFCRL-64-637 N64-31994 23-12

IONOSPHERIC HYDROMAGNETIC AND ACOUSTIC WAVES N64-32264 23-12

MEAN DIURNAL VARIATION OF TOPSIDE IONOSPHERE AT MID-LATITUDES
NASA-RP-344 N64-32640 23-12

BEACON EXPLORER SATELLITE FOR IONOSPHERIC STUDY AND EVALUATION OF LASER TECHNIQUE FOR DERIVING ORBITAL AND GEODETIC INFORMATION N64-32948 24-32

ELECTROMAGNETIC WAVE PROPAGATION IN IONOSPHERE - SCATTER AND IMPEDANCE
JPRS-27125 N64-33226 24-08

WAVEGUIDE MODEL OF IONOSPHERIC PERTURBATION EFFECTS ON VERY LOW FREQUENCY ELECTROMAGNETIC PROPAGATION
AD-420379 N64-33428 24-08

PARTICLE FLUX-WAVE INTERACTION IN UPPER IONOSPHERE
SU-SEL-64-063 N64-33554 24-12

TWILIGHT WIND SHEAR MEASUREMENTS IN UPPER IONOSPHERE N64-33654 24-12

CHARACTERISTICS OF IONOSONDE AND HOURLY VALUES OF IONOSPHERIC DATA - AUSTRALIA
CPD-1963/12/S N64-33737 24-12

TABULATION OF IONOSPHERIC DATA - AUSTRALIA
CPD-1963/11/W/ N64-33984 24-12

IONOSPHERE EXPLORER-A
S IE-A

IONOSPHERIC ABSORPTION
HIGH FREQUENCY PROPAGATION OF TRANSPOLAR PULSE TRANSMISSIONS OVER ARCTIC PATHS USING IONOSPHERIC APSORPTION MEASUREMENT
UAG-R141 N64-12420 04-01

EFFECT OF IONOSPHERIC ABSORPTION OF SOLAR PARTICLE RADIATION ON ARCTIC HIGH FREQUENCY PROPAGATION N64-12421 04-28

IONOSPHERIC ABSORPTION AND SIGNAL DETECTION OF CISPOLAR AND TRANSPOLAR PROPAGATION PATHS N64-12424 04-12

EFFECT OF SOLAR FLARES ON D-REGION PRODUCING IONOSPHERIC ABSORPTION OF RADIO WAVES AND SUDDEN INCREASE OF IONIZATION N64-15437 07-12

ATMOSPHERIC RADIO NOISE AT BYRD STATION, ANTARCTICA - MEASUREMENT, SOURCES, AND ABSORPTION PHENOMENA
RAD-TR-63-48 N64-16850 08-12

GEOMAGNETIC K-INDICES, IONOSPHERIC ABSORPTION, VLF RADIO WAVE PROPAGATION, TRANSIT IVA RECORDING, VISIBLE AURORAL INDEX, AND MAGNETIC PULSATIONS N64-19321 12-12

IONOSPHERIC ABSORPTION AND SOLAR ACTIVITY IN

MIDDLE LATITUDE N64-20770 14-12

RIOMETER MEASUREMENTS WITH REGARD TO ABSORPTION CROSS-SECTION OF ELECTRONS IN UPPER ATMOSPHERE N64-20772 14-12

SOLAR INDUCED MAGNETIC VARIATIONS, TELLURIC CURRENTS, IONOSPHERIC ABSORPTION, VISIBLE AURORAS, AND X-RAYS
UAG-R146, PT. 2 N64-27538 19-12

SATELLITE OBSERVATIONS OF IONOSPHERIC RADIO WAVE ABSORPTION N64-30453 22-12

GEOMAGNETISM, IONOSPHERIC ABSORPTION, AURORAL RADAR ECHOS, RADIO WAVE PROPAGATION, MICROPULSATIONS & EARTH CURRENTS
AD-602884 N64-30565 22-12

IONOSPHERIC ABSORPTION MEASUREMENT BY COSMIC NOISE METHOD AT TWO FREQUENCIES N64-32918 24-15

IONOSPHERIC COMPOSITION
IONOSPHERIC DATA FOR AUGUST 1962 FROM WOOMERA, SOUTH AUSTRALIA
CPD-1962/8/W/ N64-10227 01-12

IONOSPHERIC DATA FOR SEPT. 1962, FROM WOOMERA, AUSTRALIA
CPD-1962/9/W/ N64-10228 01-12

IONOSPHERIC PARAMETER DATA, WOOMERA, AUSTRALIA
CPD 1962/10/W/ N64-10524 01-12

EARTH SATELLITE STUDY OF ATMOSPHERIC AND IONOSPHERIC COMPOSITION, RADIATION BELTS AND COSMIC RADIATION N64-10796 02-28

GEOGRAPHIC DISTRIBUTION OF IONOSPHERIC F-2 LAYER DISTURBANCES & EFFECT OF MAGNETIC STORM
T-384-R N64-11280 02-12

INTERNATIONAL GEOPHYSICAL YEAR - UPPER ATMOSPHERE TEMPERATURE & WIND VELOCITY, AND IONOSPHERIC STUDY N64-11638 03-12

WOOMERA IONOSONDE IONOSPHERIC DATA FOR NOV 1962
CPD 1962/11/W/ N64-11996 03-12

WOOMERA IONOSONDE IONOSPHERIC DATA FOR DEC 1962
CPD 1962/12/W/ N64-11997 03-12

ION CLOUDS, IONOSPHERIC PERTURBATIONS, AND RADIO ASTRONOMY - BIBLIOGRAPHY
AID-P-63-118 N64-12078 03-07

RADIO INVESTIGATION OF IONOSPHERIC STRUCTURE BY MEANS OF DOPPLER SHIFT, AND APPARATUS FOR RECEIVING & RECORDING DOPPLER SHIFT DATA
JPRS-19069 N64-12501 04-01

IONOSPHERIC STRUCTURE INVESTIGATION BY ANALYSIS OF DOPPLER SHIFT IN FREQUENCY OF RADIO TRANSMISSION FROM COSMOS I & II SATELLITES N64-12502 04-12

AERONOMY - BEHAVIOR OF POSITIVE IONS AND STRUCTURE OF IONOSPHERE
AFCRL-63-913 N64-14698 06-12

ANALYSIS OF ELECTRON DENSITY-HEIGHT PROFILE FROM VIRTUAL HEIGHT-FREQUENCY RECORDS BY METHOD OF LEAST SQUARES - IONOSPHERIC RESEARCH
NASA-CR-55431 N64-14905 06-12

IONOSPHERIC DATA FOR JANUARY, 1963 FROM WOOMERA, SOUTH AUSTRALIA
CPD-1963/1/W/ N64-14947 06-12

IONOSPHERIC DATA FOR FEBRUARY 1963 FROM WOOMERA, SOUTH AUSTRALIA
CPD-1963/2/W/ N64-14948 06-12

IONOSPHERIC DATA FOR MARCH 1963 FROM WOOMERA, SOUTH AUSTRALIA
CPD-1963/3/W/ N64-14949 06-12

IONOSPHERIC DATA FOR APRIL 1963 FROM WOOMERA, SOUTH AUSTRALIA
CPD-1963/4/W/ N64-14950 06-12

IONOSPHERIC DATA FOR MAY 1963 FROM WOOMERA, SOUTH AUSTRALIA
CPD-1963/5/W/ N64-14951 06-12

IONOSPHERIC RESEARCH - PHYSICS, DYNAMICS, & AERONOMIC PROPERTIES OF EARTH & PLANETARY ATMOSPHERE
AFCRL-63-931 N64-14972 06-12

ELECTRON STRUCTURE AND SCATTERING IN IONOSPHERE
AFCRL-63-925 N64-15084 07-12

IONOSPHERIC DATA FROM WOOMERA, SOUTH AUSTRALIA
CPD-1963/6/W/ N64-15983 07-12

IONOSPHERIC DATA FROM WOOMERA, SOUTH AUSTRALIA
CPD-1963/7/W/ N64-15984 07-12

TABLES OF MEDIANS OF IONOSPHERIC DATA N64-19090 11-12

PHYSICAL PROPERTIES OF IONOSPHERIC D-LAYER N64-19677 12-12

HANDBOOK WITH TABLES OF IONOSPHERIC DATA
RRC-A92 N64-20557 13-12

HANDBOOK OF TABLES ON IONOSPHERIC DATA
RRC-A93 N64-20558 13-12

IONOSPHERIC DATA TABULATIONS IN AUSTRALIA
CPD-1963/7/S/ N64-20614 13-12

IONOSPHERIC DATA FOR SALISBURY, AUSTRALIA DURING AUGUST 1963
CPD-1963/8/S/ N64-20821 14-12

IONOSPHERIC DATA FOR JANUARY, 1963 FOR SALISBURY, SOUTH AUSTRALIA
CPD-1963/1/S/ N64-21198 14-12

IONOSPHERIC DATA FOR FEBRUARY, 1963 FROM SALISBURY, SOUTH AUSTRALIA
CPD-1963/2/S/ N64-21199 14-12

IONOSPHERIC DATA FOR MARCH, 1963 FROM SALISBURY, SOUTH AUSTRALIA
CPD-1963/3/S/ N64-21200 14-12

IONOSPHERIC DATA FOR MAY, 1963 FROM SALISBURY, SOUTH AUSTRALIA
CPD-1963/5/S/ N64-21201 14-12

IONOSPHERIC CHEMISTRY - DAY AND NIGHT OBSERVATIONS OF ION COMPOSITION N64-21516 15-12

RADIO-ENGINEERING METHODS EMPLOYED IN EXPLORATION OF IONOSPHERE - EVALUATION OF DATA FROM SPACE ROCKETS AND ARTIFICIAL SATELLITES
FTD-TT-62-464/1&2&3&4 N64-22153 15-32

SATELLITE MEASUREMENTS OF CHARGED PARTICLES FOR COSMIC RADIATION STUDY IN IONOSPHERE
NASA-TT-F-8831 N64-22939 16-28

IONOSPHERIC DATA FOR SEPTEMBER 1963 FROM WOOMERA, SOUTH AUSTRALIA
CPD-1963/9/W/ N64-23282 16-12

OBSERVATION OF AURORAL ZONE IONOSPHERE
AFCRL-64-353 N64-26182 18-12

IONOSPHERIC AND RADIO PROPAGATION DATA FOR APRIL 1963
RRC-A95 N64-27373 19-12

IONOSPHERIC AND RADIO PROPAGATION DATA FOR MARCH 1963
RRC-A94 N64-27374 19-12

IONOSPHERIC DATA FOR WOOMERA AUSTRALIA IN OCTOBER 1963
CPD-1963/10/W/ N64-28252 20-12

IONOSPHERIC DATA FOR NOVEMBER 1963 - AUSTRALIA N64-28861 20-12

AIRGLOW, IONOSPHERE, AURORA, GEOMAGNETISM, COSMIC RAYS, AND SOLAR ACTIVITY DATA RECEIVED BY WDC-A

FROM 1 JULY 1957 TO 31 DECEMBER 1963
N64-28976 20-12

DIMENSIONS OF IONOSPHERIC IRREGULAR FORMATIONS BY OBSERVATIONS ON COSMOS I, II, AND XI SATELLITES IN COHERENT FREQUENCIES
NASA-TT-F-8945 N64-30838 22-12

SPACE PROBE FOR IONOSPHERIC COMPOSITION, ELECTRON TEMPERATURE, AND POSITIVE ION DENSITY
NASA-CR-59136 N64-33223 24-15

IONOSPHERIC CONDUCTIVITY
S IONIC WAVE

IONOSPHERIC CROSS MODULATION
INSTRUMENTATION SYSTEM FOR MEASURING IONOSPHERIC CROSS-MODULATION
REPT.-205/E/ N64-14654 06-12

ELECTRON DENSITY PROFILES IN QUIET D-LAYER FROM IONOSPHERIC CROSS MODULATION OBSERVATIONS
N64-19678 12-12

IONOSPHERIC ELECTRON DENSITY
CF ELECTRON DENSITY
SOVIET RESEARCH ON IONOSPHERIC ELECTRON DENSITY & CONDUCTIVITY OF SOIL
JPRS-21739 N64-10276 01-12

IONOSPHERIC PARAMATERS FROM PHASE DIFFERENCE AND ROTATION OF POLARIZATION PLANE OF COHERENT SIGNALS FROM COSMOS I & COSMOS II SATELLITES
N64-10277 01-12

IONOSPHERE ELECTRON DENSITY FROM PHASE SHIFT AND ROTATION OF PLANE OF POLARIZATION OF COHERENT SIGNALS TRANSMITTED FROM SATELLITES
N64-10278 01-12

EVIDENCE FOR EFFECT OF CORPUSCULAR RADIATION ON IONOSPHERE - ELECTRON DENSITY & IONIZATION FOR LONG & SHORT TERM VARIATIONS
NASA-TM-X-51058 N64-10297 01-28

ELECTRON DENSITY FLUCTUATION MEASUREMENTS IN IONOSPHERIC D-REGION BY VERY LOW FREQUENCY RADIO SIGNALS
NEL-1178 N64-12361 03-12

MEAN ELECTRON DENSITY VARIATIONS OF QUIET IONOSPHERE
NBS-TN-40-12 N64-14719 06-12

DETERMINATION OF TEMPERATURE & IONIC COMPOSITION OF IONOSPHERE & MAGNETOSPHERE BY ELECTROMAGNETIC WAVE SCATTERING
NASA-CR-55434 N64-14842 06-12

ANALYSIS OF ELECTRON DENSITY-HEIGHT PROFILE FROM VIRTUAL HEIGHT-FREQUENCY RECORDS BY METHOD OF LEAST SQUARES - IONOSPHERIC RESEARCH
NASA-CR-55431 N64-14905 06-12

TOPSIDE IONOSPHERE DATA FROM ALOUETTE SATELLITE
RRS/IM-112 N64-14919 06-12

HIGH FREQUENCY TRANSMITTER FOR IONOSPHERIC ELECTRON DENSITY STUDY BY MOON ECHOES
NRL-5968 N64-15130 07-08

TOPSIDE HEIGHT DISTRIBUTION OF ELECTRONS DEDUCED FROM TOPSIDE SOUNDER IONOGRAMS N64-15171 07-12

INVESTIGATION OF IONOSPHERIC CHARGED PARTICLES - ELECTRON DENSITY CALCULATIONS FROM RADIO TRANSMISSIONS OF COSMOS SATELLITES
AID-P-64-9 N64-16461 08-08

LOSS COEFFICIENT AND DRIFT VELOCITY STUDIES OF IONOSPHERIC F-REGION USING ELECTRON DENSITY
RPU-S14 N64-16933 09-12

IONOSPHERIC ELECTRON DENSITY AS EFFECT OF CORPUSCULAR RADIATION
NASA-RP-144 N64-17564 09-12

EXPONENTIAL ELECTRON DENSITY PROFILE ABOVE F- 2 LAYER OF IONOSPHERE - ALOUETTE SATELLITE IONOGRAM
USAELRDL-TR-2424 N64-18042 10-12

IONOSPHERE EFFECTS ON POLARIZATION AND DOPPLER SHIFT OF RADIO TRANSMISSIONS FROM SATELLITES FOR ELECTRON CONTENT MEASUREMENTS N64-18160 10-12

GRAPHIC SOLUTION TO GEOMAGNETIC ANOMALIES AND ELECTRON DENSITY PROBLEMS IN IONOSPHERE
NASA-TM-X-53003 N64-18164 10-12

METHOD FOR OBTAINING IONOSPHERIC ELECTRON DENSITY PROFILES - STRUCTURE OF LOWER F REGION
N64-18408 10-12

FREQUENCY CHECK, VECTOR VERIFICATION, & ELECTRON DENSITY MAP
AD-434155 N64-18777 11-25

MEASURING LOCAL ELECTRON DENSITY IN IONOSPHERE FROM OBSERVATIONS OF VLF WAVE FIELD - AEROBEE EXPERIMENT
TECH. REPT.-327-TC N64-19231 11-28

ALOUETTE TOPSIDE SOUNDINGS USED TO DETERMINE VARIATIONS OF ELECTRON DENSITY
NASA-CR-53820 N64-19309 12-32

METHOD FOR EVALUATING ELECTRON COLLISION FREQUENCY IN IONOSPHERE BY SOLVING BAILEY EQUATION
N64-19680 12-12

MODELS OF ELECTRON DENSITY FLUCTUATIONS - AURORAL BACKSCATTERING N64-20768 14-12

IONOSPHERIC ELECTRON DENSITY MEASUREMENTS IN REGIONS OF LOW MAGNETIC DIP ANGLES
N64-22014 15-12

SURFACE INCLINATIONS OF EQUAL ELECTRON CONCENTRATIONS IN IONOSPHERE & IONIZATION DISTRIBUTION WITH HEIGHT
NASA-TT-F-8691 N64-24908 17-12

GEOMAGNETIC CONTROL OF ELECTRON DENSITY IN F REGION OF IONOSPHERE
NASA-RP-263 N64-26001 18-12

WHISTLER RECORDINGS TO TEST VALIDITY OF MODEL MAGNETOSPHERIC ELECTRON DENSITY DISTRIBUTIONS
DI-82-0245 N64-26613 18-12

RADIO FREQUENCY PROBE FOR ELECTRON DENSITY AND COLLISION FREQUENCY MEASUREMENTS IN D AND E REGIONS OF IONOSPHERE
NASA-CR-56725 N64-27271 19-15

ELECTRON DENSITY IN LOWER IONOSPHERE AT SUNRISE
NASA-TT-F-8695 N64-27276 19-12

TOTAL ELECTRON CONTENT OF IONOSPHERE DERIVED FROM SATELLITE DOPPLER MEASUREMENTS
NASA-CR-56935 N64-27881 20-12

ELECTRON DENSITY PROFILE DETERMINATION OF IONOSPHERIC D REGION - ANALYSIS OF RADIO WAVE PROPAGATION EFFECTS IN D REGION
E-T-R-64-24 N64-28688 20-12

DETERMINATION OF ELECTRON DENSITY OF UPPER IONOSPHERE USING RADIO SIGNALS FROM SATELLITES
N64-29058 21-12

DETERMINATION OF ELECTRON DENSITY OF UPPER IONOSPHERE USING RADIO SIGNALS FROM SATELLITES
N64-29058 21-12

ELECTRON DENSITY AND COLLISION FREQUENCY IN D LAYER OF IONOSPHERE USING ROCKET MEASUREMENTS OF DIFFERENTIAL ABSORPTION AND FARADAY ROTATION
NASA-CR-56939 N64-29197 21-12

FARADAY FADINGS OF SATELLITE SIGNALS TO DETERMINE QUANTITY OF ELECTRONS IN VERTICAL COLUMN OF UNIT CROSS SECTION
JPRS-26345 N64-29540 21-12

SPACE PROBE MEASUREMENTS OF IONOSPHERIC ELECTRON DENSITY AND FARADAY EFFECT N64-30452 22-12

MEASUREMENT OF ELECTRON DENSITY IN IONOSPHERE FROM OBSERVATION OF FARADAY EFFECT ON SIGNALS FROM COSMOS I, COSMOS II, AND EXPLORER SATELLITES
NASA-TT-F-8958 N64-30851 22-12

LOCAL DEPLETION OF IONOSPHERIC ELECTRON DENSITY BY FIREFLY PROJECT CHEMICAL CLOUDS WITH HIGH FREE ELECTRON ATTACHMENT COEFFICIENTS
N64-31387 23-12

VARIATIONS OF IONOSPHERIC ELECTRON DENSITY IN DEPLETED REGION - FIREFLY PROJECT
N64-31388 23-12

WIND SHEAR THEORY OF SPORADIC E LAYER APPLIED TO FIREFLY PROJECT ELECTRON DENSITY PROFILES
N64-31390 23-12

DIURNAL VARIATION OF IONOSPHERIC ELECTRON CONTENT FROM DOPPLER SLOPES OF SIMULTANEOUS SATELLITE SIGNALS
MRI-106.04 N64-32443 23-12

IONOSPHERIC ELECTRON DENSITY AND BODY POTENTIAL MEASUREMENTS BY CYLINDRICAL PROBE
NASA-CR-59158 N64-33278 24-12

IONOSPHERIC IRREGULARITY
TRAPPED RADIATION AND IONOSPHERIC PERTURBATIONS DUE TO FISSION NEUTRON SOURCE - NUCLEAR TESTING
D1-82-0241 N64-10150 01-23

SYNOPTIC VARIATIONS AND VERTICAL PROFILES OF IONOSPHERE IRREGULARITIES REPORTED BY SPUTNIK III AND COSMOS I SATELLITES N64-10423 01-12

IONOSPHERIC IRREGULARITY - F- AND D-REGION IRREGULARITIES
AFCRL-63-532 N64-17192 09-12

IRREGULARITIES IN F-REGION FROM EQUATORIAL SPREAD F - IONOSPHERIC IRREGULARITY
N64-17193 09-12

EFFECTS OF IONOSPHERIC IRREGULARITIES IN F-2 LAYER ON BACKSCATTER OF RADIO WAVES
AFCRL-64-108 N64-19416 12-08

IRREGULARITIES OF IONOSPHERIC D-LAYER AND EFFECT ON WAVEFORM OF ATMOSPHERICS N64-19681 12-12

NATURE AND SIZE OF IRREGULARITIES IN D-LAYER OF IONOSPHERE OBSERVED ON NEAR VERTICAL VERY LOW FREQUENCY IONOSPHERIC SOUNDER N64-19682 12-12

APPROXIMATION METHOD FOR COMPUTING DIFFRACTION PATTERNS CAUSED BY IONOSPHERIC IRREGULARITIES
D1-82-0334 N64-19964 12-12

POLARIZATION OF RADIO EMISSION FROM JUPITER - VARIATIONS ATTRIBUTED TO JOVIAN IONOSPHERIC DISTURBANCES CAUSED BY SOLAR ACTIVITY
NASA-CR-53538 N64-20734 13-29

BEACON SATELLITE STUDY OF SMALL IONOSPHERIC IRREGULARITIES
NASA-CR-56481 N64-22421 15-12

SEASONAL VARIATION OF IONOSPHERIC DISTURBANCES AT HIGH LATITUDES OF NORTHERN & SOUTHERN HEMISPHERES
NASA-TT-F-8878 N64-23049 16-12

SATELLITE OBSERVATION OF AURORAL ZONE IONOSPHERIC IRREGULARITIES
AFCRL-64-568 N64-26909 18-12

MODEL STUDIES OF INFLUENCE OF IONOSPHERE PERTURBATIONS ON VERY LOW FREQUENCY PROPAGATION
AD-440475 N64-26943 18-08

F REGION IRREGULARITIES STUDIED BY SCINTILLATION OF SIGNALS FROM SATELLITES N64-32527 23-12

ATMOSPHERIC ELECTRICITY STUDIES AND CORRELATION WITH IONOSPHERIC IRREGULARITIES - AIRBORNE INSTRUMENTATION FOR ELECTRIC FIELD MEASUREMENTS
AFCRL-64-678 N64-33309 24-12

IONOSPHERIC PROPAGATION
SA ELECTROMAGNETIC PROPAGATION
SA RADIO PROPAGATION
SA SCATTER PROPAGATION
SA WAVE PROPAGATION
IONOSPHERIC & RADIO PROPAGATION DATA IN INDIA FOR AUG 1962
RRC-A87 N64-14446 06-12

IONOSPHERIC & RADIO PROPAGATION DATA COLLECTED IN INDIA
RRC-A88 N64-14447 06-12

DETERMINATION OF TEMPERATURE & IONIC COMPOSITION OF IONOSPHERE & MAGNETOSPHERE BY ELECTROMAGNETIC WAVE SCATTERING
NASA-CR-55434 N64-14842 06-12

SOLAR-INDUCED EFFECTS ON VERY HIGH FREQUENCY IONOSPHERIC PROPAGATION AT LOW MAGNETIC LATITUDE
N64-15442 07-12

PROPAGATION EQUATIONS FOR HYDROMAGNETIC SIGNALS IN ANISOTROPIC IONOSPHERE
RM-3830-PR N64-16048 07-12

IONOSPHERE AND LABORATORY GENERATED PLASMA WAVE PROPAGATION - MAGNETOHYDRODYNAMICS
AFCRL-63-782, VOL. 2 N64-16064 07-24

NEW METHOD OF SOLVING RADIO WAVE PROPAGATION PROBLEMS IN MAGNETOIONIC MEDIA - IONOSPHERIC FOCUSING IN TERRESTRIAL MAGNETIC FIELD
AFCRL-63-945 N64-17861 10-12

CORRECTION FORMULAS FOR ELECTROMAGNETIC PROPAGATION THROUGH TROPOSPHERE AND IONOSPHERE
N64-18240 10-08

PREDICTED MEDIAN VALUES OF CRITICAL AND MAXIMUM USABLE FREQUENCIES FOR IONOSPHERIC PROPAGATION
RRC-B93 N64-19494 12-12

THEORY OF VERY LOW FREQUENCY RADIO PROPAGATION BETWEEN SPHERICAL CONDUCTING EARTH AND CONCENTRIC ANISOTROPIC IONOSPHERE N64-19694 12-08

VERY LOW FREQUENCY RADIO PROPAGATION IN IONOSPHERE
N64-19696 12-08

HIGH FREQUENCY/VERY HIGH FREQUENCY IONOSPHERIC PROPAGATION WAVEGUIDE MODES
BR-2893 N64-20311 13-08

PATH POWER LOSSES IN ENDO-IONOSPHERIC WAVEGUIDE MODES N64-20312 13-08

ANGULAR POWER LAW OF SCATTERING IN VERY HIGH FREQUENCY IONOSPHERIC FORWARD PROPAGATION
N64-20766 14-12

CONTINUOUS WAVE PROPAGATION EXPERIMENT FOR IONOSPHERIC MEASUREMENTS USING SMALL SOUNDING ROCKETS
NASA-TN-D-2323 N64-21427 14-12

GEOMAGNETISM, IONOSPHERE, AND RADIO WAVE PROPAGATION RESEARCH
FTD-TT-62-1330/1&2&4 N64-23848 16-12

GEOMAGNETIC PARAMETERS AND FREQUENCY-HEIGHT CURVES IN IONOSPHERE - RADIO WAVE PROPAGATION
N64-23849 16-12

SUNRISE EFFECTS ON EAST-WEST IONOSPHERIC PROPAGATION PATHS
AFCRL-64-346 N64-24198 16-12

REFRACTION AND DOPPLER SHIFT OF RADIO WAVES RADIATED BY ARTIFICIAL EARTH SATELLITES IN THREE-DIMENSIONAL HETEROGENEOUS IONOSPHERE
FTD-TT-64-384/1&2&4 N64-26122 18-08

MODEL WAVEGUIDE FOR STUDY OF IONOSPHERE PERTURBATIONS & PROPAGATION
QPR-9 N64-26267 18-08

MODEL STUDIES OF INFLUENCE OF IONOSPHERE PERTURBATIONS ON VERY LOW FREQUENCY PROPAGATION

AD-440475 N64-26943 18-08

SECOND ORDER EFFECTS IN HIGH-FREQUENCY TRANSIONOSPHERIC PROPAGATION
NASA-CR-58201 N64-27872 20-08

INFRASONIC WAVE PROPAGATION IN IONOSPHERE - EXTENSION OF METHOD OF NORMAL MODES TO WAVE PROPAGATION IN ALMOST-STRATIFIED MEDIUM
AFCRL-64-526 N64-28533 20-08

FREQUENCY SWEPT BACKSCATTER SOUNDINGS FOR STUDY AND SURVEILLANCE OF IONOSPHERIC PROPAGATION CONDITIONS
AFCRL-64-443 N64-28547 20-12

DISPERSION, ATTENUATION, AND PROPAGATION OF HIGH FREQUENCY SIGNALS IN IONOSPHERE
RADC-TDR-64-219 N64-29827 21-12

CORRELATION OF IONOSPHERIC PROPAGATION PROPERTIES WITH SOLAR FLARES AND GEOMAGNETIC STORMS OBSERVED BY OBLIQUE LONG RANGE HIGH FREQUENCY PROBING
AFCRL-64-455 N64-29908 21-28

SECOND ORDER EFFECTS IN HIGH FREQUENCY TRANSIONOSPHERIC PROPAGATION - RAY PATH BENDING, NONLINEAR REFRACTIVE INDEX, AND MAGNETOIONIC MODE SPLITTING
NASA-CR-58797 N64-30523 22-08

IONOSPHERIC REFLECTION COEFFICIENT & GROUP HEIGHT OF REFLECTION FOR LOW FREQUENCY RADIO WAVES CALCULATED BY FULL WAVE METHOD
AFCRL-64-611 N64-30546 22-12

WAVEGUIDE MODEL FOR IONOSPHERIC PROPAGATION AND PERTURBATION
QR-7 N64-31260 22-08

IONOSPHERIC WALL PERTURBATIONS AND PROPAGATION IN MULTIMODE WAVEGUIDES
QR-10 N64-33490 24-12

IONOSPHERIC REFLECTION
CALCULATIONS FOR REFLECTION OF ELECTROMAGNETIC WAVES FROM LOSSY MAGNETOPLASMA - IONOSPHERIC D-LAYER NONRECIPROCAL REFLECTION
NBS-TN-205 N64-10470 01-24

EFFECT OF SOLAR DISTURBANCES ON LOW RADIOFREQUENCY IONOSPHERIC REFLECTION PROCESS N64-15451 07-28

OBLIQUE REFLECTION OF CW LOW FREQUENCY RADIO WAVES FROM IONOSPHERE N64-19687 12-08

STATISTICAL PREDICTION OF DIURNAL PHASE CHANGES RESULTING FROM CHANGE IN ALTITUDE OF IONOSPHERIC REFLECTING LAYER N64-19693 12-12

PHASE DEVIATION IN VERY LOW FREQUENCY RADIO SIGNALS AFTER IONOSPHERIC REFLECTION N64-19695 12-08

PHASE AND AMPLITUDE WAVE INTERACTION OF SIGNALS REFLECTED FROM LOWER IONOSPHERE
AFCRL-64-32 N64-20296 13-12

HIGH FREQUENCY RADIO WAVE REFLECTION BY SPORADIC E LAYER OF IONOSPHERE
WRE-TN-CPD/T/101 N64-20626 13-12

EXPRESSION FOR CALCULATING IONOSPHERIC REFLECTION COEFFICIENT FOR WAVE HORIZONTALLY POLARIZED BEFORE AND AFTER REFLECTION
NEL-1221 N64-29859 21-08

IONOSPHERIC SOUNDING
MARS AND VENUS IONOSPHERE TOPSIDE SOUNDER FOR MARINER SPACECRAFT
NASA-CR-52731 N64-10903 02-29

BACKSCATTER SOUNDING DURING SEVERE IONOSPHERIC STORMS N64-15438 07-12

INFLUENCE OF SUDDEN IONOSPHERIC DISTURBANCES ON BACKSCATTER SOUNDING N64-15439 07-12

IONOSPHERE OBSERVATION DURING 20 JULY 1963 SOLAR ECLIPSE
AFCRL-64-24 N64-17506 09-12

EXPONENTIAL ELECTRON DENSITY PROFILE ABOVE F- 2 LAYER OF IONOSPHERE - ALOUETTE SATELLITE IONOGRAM
USAELRDL-TR-2424 N64-18042 10-12

CHARGED-PARTICLE PROFILES OF UPPER IONOSPHERE FROM ALOUETTE TOPSIDE SATELLITE SOUNDING, COMPARED WITH ROCKET- & GROUND-BASED BACKSCATTER MEASUREMENTS
NASA-RP-158 N64-19148 11-12

NATURE AND SIZE OF IRREGULARITIES IN D-LAYER OF IONOSPHERE OBSERVED ON NEAR VERTICAL VERY LOW FREQUENCY IONOSPHERIC SOUNDER N64-19682 12-12

CONTINUOUS WAVE PROPAGATION EXPERIMENT FOR IONOSPHERIC MEASUREMENTS USING SMALL SOUNDING ROCKETS
NASA-TN-D-2323 N64-21427 14-12

VIDEO SIGNAL ENHANCER TO INCREASE SIGNAL TO NOISE RATIO FOR OBLIQUE INCIDENCE IONOSPHERIC SOUNDERS
DRTE-1127 N64-23168 16-15

VERTICAL HIGH FREQUENCY IONOSPHERIC SOUNDINGS IN PACIFIC ISLANDS
AFCRL-64-408 N64-25327 17-12

FREQUENCY SWEPT BACKSCATTER SOUNDINGS FOR STUDY AND SURVEILLANCE OF IONOSPHERIC PROPAGATION CONDITIONS
AFCRL-64-443 N64-28547 20-12

IPTS
S INTERNATIONAL PRACTICAL TEMPERATURE SCALE /IPTS/

IRASER
S AMPLIFIER
S LASER
S MASER

IRIDIUM
CLOSED SOURCES OF GAMMA RADIATION - RADIOACTIVE COBALT, ZINC, CESIUM, & IRIDIUM
JPRS-20129 N64-10512 01-07

IRON
ELECTRON MICROPHOTOGRAPHIC STUDY OF BRITTLE FRACTURE & FAILURE PROCESS IN STEEL AND IRON N64-11147 02-18

HYDROSTATIC PRESSING OF COPPER, IRON, NICKEL, AND MOLYBDENUM POWDERS N64-11479 03-17

POLAROGRAPHIC METHOD OF DETERMINING IRON IN ALUMINATE SOLUTIONS
AMC-TRANS-1-63 N64-11913 03-07

ELECTROCHEMICAL STUDY OF IRON AND NICKEL IN SOLID SOLUTION IN POTASSIUM IODIDE
TDR-169/3240-21/TR-1 N64-13762 05-07

EFFECT OF SOLUTE ELEMENTS ON MAGNETOELASTIC DAMPING & COERCIVITY IN VERY PURE IRON
AD-428026 N64-14642 06-23

DIFFUSION OF COBALT AND IRON IN IRON-ALUMINUM ALLOYS N64-17034 09-25

SUBMICRON IRON AND COBALT PARTICLES PRODUCED BY ELECTRODEPOSITION INTO MERCURY CATHODE TUBE
ASD-TDR-63-423 N64-18568 11-18

DIFFUSION OF SILICON IN TITANIUM, TANTALUM, IRON, AND MOLYBDENUM
FTD-MT-63-39/162 N64-18669 11-25

MICROCRACK PROPAGATION OF CLEAVAGE FRACTURE IN POLYCRYSTALLINE IRON
SSC-161 N64-21153 14-25

DIFFUSION COEFFICIENTS OF BODY CENTERED CUBIC METALS USING RADIOACTIVE ISOTOPES OF IRON AND CHROMIUM
AD-432969 N64-21307 14-18

PRESSABILITY OF IRON POWDERS - INFLUENCE OF TECHNOLOGICAL FACTORS N64-22175 15-18

SMELTING COPPER REVERBERATORY SLAGS TO RECOVER IRON OF LOW COPPER AND SULFUR CONTENT
BM-RI-6481 N64-23620 16-18

YIELD STRENGTH OF DECARBURIZED IRON
TR-4 N64-23648 16-18

STRESS-CORROSION CRACKING IN IRON & STEEL
R/D-2721-4 N64-23966 16-33

IRON, MAGNESIUM, CALCIUM, AND NICKEL DISTRIBUTION IN MURRAY CARBONACEOUS CHONDRITE
NASA-TM-X-54050 N64-24041 16-18

MATERIALS RESISTANT TO CORROSION BY HYDROCHLORIC ACID AND MECHANISM OF DISSOLUTION OF IRON IN HYDROCHLORIC ACID N64-24277 17-07

PROPAGATION VELOCITY OF ULTRASONIC WAVES IN IRON AND CAST IRON AND SEVERAL DIELECTRIC MATERIALS
FTD-TT-64-120/164 N64-25463 17-23

PREPARATION OF COPPER POWDER FROM LEACH SOLUTIONS AFTER PRECIPITATION WITH IRON
BM-RI-6486 N64-25833 17-18

IRON, MAGNESIUM & CALCIUM DISTRIBUTION IN OLIVINES & RHOMBIC PYROXENES OF CHONDRITES
NASA-TM-X-54037 N64-26593 18-05

EFFECT OF BORON ON RECOVERY AND RECRYSTALLIZATION OF PURE IRON & EFFECT OF PRECIPITATED IMPURITIES AND STRAIN ON GRAIN GROWTH IN PURE IRON
AD-602137 N64-28863 20-25

DIFFUSION OF CARBON IN ALPHA IRON
WVT-RR-6402 N64-28979 20-25

CHEMICAL AND ELECTROCHEMICAL PASSIVATION AND CORROSION OF IRON IN NITRIC ACID
FTD-TT-62-1721/1&2 N64-29023 21-07

PREPARATION OF HIGH PURITY IRON SINGLE CRYSTALS BY FLOAT-ZONE AND ELECTRON BEAM ZONE REFINING OF POLYCRYSTALLINE MATERIAL N64-29097 21-25

TRANSMISSION OF GAMMA RADIATION THROUGH THIN FINITE SLABS - MEASUREMENTS ON IRON AND CONCRETE SHIELDING USING COBALT 60 AND CESIUM 137 SOURCES
AD-603413 N64-30683 22-23

MICROSTRUCTURE AND MECHANICAL PROPERTIES OF CAST IRON WITH YTTRIUM AS NODULIZER
REPT.-64-730 N64-31041 22-18

IRON, MAGNESIUM, AND CALCIUM DISTRIBUTION IN OLIVINES AND RHOMBIC PYROXENES OF CHONDRITES
NASA-RP-341 N64-31218 22-12

EFFECTS OF IRON AND ALUMINUM ION DISTRIBUTION ON PROPERTIES OF INTERMETALLIC OXIDE CRYSTALS
QTSR-2 N64-32454 23-25

BARKHAUSEN EFFECT IN IRRADIATED PURE IRON AND NICKEL
AD-433849 N64-32571 23-25

IRON ABUNDANCE FROM FAINT FRAUNHOFER LINES
N64-33696 24-05

ISOTHERMAL RECRYSTALLIZATION KINETICS OF ELECTRON BEAM ZONE REFINED IRON
ARL-64-131 N64-33927 24-18

IRON ALLOY
SA PERMALLOY
SA STEEL
EFFECT OF ELECTROSLAG REMELTING ON PLASTICITY OF IRON-NICKEL-CHROMIUM BASE ALLOYS
JPRS-21760 N64-10123 01-18

WELDING OF VARIOUS GRANULATED METALLIC POWDERS - TUNGSTEN, NICKEL, TIN, LEAD, TITANIUM, ALUMINUM AND FERROALLOYS N64-10767 02-12

CRITICAL DISLOCATION DENSITY NEAR GRAIN BOUNDARY OF METAL ASSOCIATED WITH FATIGUE FRACTURE - IRON ALLOYS N64-10790 02-18

CRYSTAL STRUCTURE DEFECTS IN IRON AND NICKEL ALLOYS AND CHROMIUM
JPRS-17529 N64-10997 02-23

EFFECT OF UNSTABLE DEFECTS IN CRYSTAL STRUCTURE ON MOBILITY OF ATOMS IN NICKEL AND IRON ALLOYS
N64-10998 02-23

SURFACE PROPERTIES OF IRON-CARBON ALLOYS
NASA-TT-F-149 N64-11562 03-18

MANUFACTURING, MECHANICAL, AND PLASTICITY TESTING OF POWDERED METAL - IRON-COPPER ALLOY
JPRS-22247 N64-11870 03-18

STRESS CORROSION CRACKING IN HIGH STRENGTH FERROUS ALLOYS
FZM-2690 N64-12665 04-18

THERMAL, X-RAY, AND MICROSCOPIC ANALYSIS OF PHASE DIAGRAM FOR TERNARY ALLOYS OF IRON, ALUMINUM, AND URANIUM
MCW-TR-1 N64-12907 04-18

INTERSTITIAL IMPURITIES IN TITANIUM-IRON ALLOYS
N64-14234 06-23

K-BANDS OF X-RAY SPECTRUM OF IRON AND CHROMIUM DURING MAGNETIC TRANSFORMATIONS OF IRON-CHROMIUM ALLOYS N64-16221 08-23

X-RAY DIFFRACTION OF FATIGUE MECHANISM OF FERROUS AND NONFERROUS METALS AND ALLOYS
N64-16223 08-23

SELF-DIFFUSION OF IRON AND DIFFUSION OF COBALT IN IRON-COBALT ALLOYS N64-17036 09-18

PHASE TRANSFORMATION IN IRON-NICKEL ALLOYS
N64-17045 09-18

CHANGES IN FINE CRYSTAL STRUCTURES DURING AGE HARDENING OF NICKEL AND IRON-NICKEL ALLOYS
N64-17046 09-18

INFLUENCE OF CONCENTRATION OF COMPONENTS IN IRON-CHROMIUM ALLOYS ON STRUCTURE OF ENERGY SPECTRUM OF CHROMIUM & IRON CONDUCTIVITY ZONE
N64-17052 09-23

X-RAY SPECTROSCOPIC STUDIES OF IRON-MOLYBDENUM & IRON-ALUMINUM ALLOYS N64-17055 09-23

RESISTANCE TO PLASTIC DEFORMATION OF NICKEL-IRON ALLOYS N64-17067 09-18

DESCALING OF IRON AND NICKEL BASE ALLOYS USING SODIUM HYDROXIDE-SODIUM CARBONATE MOLTEN SALT BATH
HW-79048 N64-17702 09-17

INFLUENCE OF ALLOYING ELEMENTS ON CONTINUOUS COOLING TRANSFORMATION BEHAVIOR AND WELDABILITY OF BINARY & TERNARY IRON ALLOYS
C59/12/63 N64-17800 09-18

ALUMINUM OXIDE CRUCIBLE FAILURE IN PRESENCE OF NICKEL-COPPER-IRON ALLOYS
RTD-TDR-63-4159 N64-18024 10-19

ELECTRONIC STRUCTURE OF FERROMAGNETIC AND ANTIFERROMAGNETIC METAL AND ALLOYS
AMRA-TR-63-29 N64-18573 11-23

FREEZING AND MELTING POINTS OF BINARY IRON BASE ALLOYS
ARL-63-11 N64-18702 11-18

RADIOACTIVE ISOTOPE STUDY OF INFLUENCE OF REFRACTORY METAL ON SELF-DIFFUSION OF IRON IN IRON ALLOYS
FTD-MT-63-40/1&2 N64-18752 11-25

REINFORCEMENT OF IRON- AND NICKEL-CHROMIUM ALLOYS WITH SINGLE CRYSTAL ALUMINA FIBERS
AD-435044 N64-18772 11-18

ELECTROREFINING PROCESSES FOR RECOVERY OF PLUTONIUM FROM PLUTONIUM-IRON ALLOYS
LA-3029 N64-19026 11-17

KINETICS OF TRANSFORMATION BY QUENCHING OF BETA-PHASE IN ALLOYS OF URANIUM WITH ALUMINUM, SILICON, IRON, NICKEL, MOLYBDENUM, & FISSION
N64-19444 12-18

STRESS-STRAIN STUDIES OF NICKEL, IRON, AND IRON-SILICON ALLOYS WITH DIFFERENT GRAIN SIZES
ARL-63-245 N64-19647 12-18

TEMPERATURE DEPENDENCE OF MAGNETOSTRICTION AND COEFFICIENT OF LINEAR EXPANSION OF NICKEL-IRON-CHROMIUM ALLOY
FTD-TT-63-7/1&2&4 N64-19740 12-25

ANNOTATED BIBLIOGRAPHY - FABRICATION OF IRON, NICKEL, NICKEL-IRON OR PERMALLOY FILM BY THERMAL DECOMPOSITION OF CARBONYLS OR OTHER METHODS
SP-63-62 N64-21165 14-18

SOLIDIFICATION OF HIGH STRENGTH STEEL - COOLING EFFECT ON DENDRITE ARM SPACING, MICROSEGREGATION, AND DENDRITE MORPHOLOGY OF IRON-NICKEL ALLOY
AMRA-CR-63-04/1 N64-21354 14-18

IDENTIFICATION OF HEAT-RESISTANT IRON-NICKEL-CHROMIUM ALLOYS
FTD-TT-63-12/1&2 N64-22137 15-18

KINETIC AND GEOMETRIC CHARACTERISTICS OF MARTENSITE CONVERSION IN IRON-NICKEL MANGANIC ALLOY
FTD-TT-62-1760/1&2 N64-22398 15-17

MECHANICAL PROPERTIES OF IRON-COBALT-VANADIUM ALLOY
DMS-63-23 N64-26618 18-18

CARBON CONTENT EFFECT ON MAGNETIC PERMEABILITY OF IRON-ALUMINUM ALLOYS AND HEAT TREATMENT EFFECTS ON MAGNETIC PROPERTIES OF ALLOYS
FTD-TT-63-2/1&2&4 N64-26723 18-18

SHOCK WAVE STRENGTHENING OF IRON-BASE ALLOYS
R-5413-3 N64-26946 18-18

HIGH-STRENGTH, PRECIPITATION-HARDENING, LOW-MAGNETIC IRON-CHROMIUM-NICKEL ALLOYS
N64-27148 19-18

POINT DEFECT CONFIGURATIONS IN IRRADIATED IRON-CARBON ALLOYS
A64-2 N64-27698 19-18

PHYSICAL AND MECHANICAL PROPERTIES OF IRON AND NICKEL ALLOYS N64-29042 21-18

DEFORMATION AND RESISTIVITY OF IRON AND IRON-CARBON ALLOYS
PR-14 N64-30475 22-18

PHASE TRANSFORMATIONS IN IRON-VANADIUM ALLOYS
JPRS-26338 N64-30670 22-18

MAGNETIC AND PHYSICAL PROPERTIES OF TWO ALLOYS USED IN PRECISION ROTATING COMPONENTS NICKEL-CHROMIUM-IRON ALLOY AND NICKEL-COBALT-IRON ALLOY FOR ROTATING COMPONETS N64-31486 23-18

STRENGTHENING IRON-BASE ALLOYS BY SHOCK WAVES
R-5413-1 N64-32147 23-18

PHYSICAL AND CHEMICAL PROPERTIES OF IRON-CHROMIUM-NITROGEN ALLOYS
AD-445860 N64-32983 24-18

MAGNETIC PROPERTIES OF RARE EARTH-IRON ALLOYS
GNE/PHYS/64-12 N64-33816 24-25

ALTERATIONS IN MECHANICAL PROPERTIES OF NICKEL & NICKEL, COBALT & FERROUS ALLOYS DUE TO EXPLOSIVE STRESS WAVE
NWL-1930 N64-33861 24-18

IRON COMPOUND
PRODUCTION OF REFRACTORY METALS AND COMPOUNDS, HARD ALLOYS, AND FERROUS AND NONFERROUS METALS BY HOT PRESSING POWDERS
JPRS-17790 N64-10633 01-17

MICRO X-RAY DIFFRACTION OF WHISKERS GROWN FROM FERROUS CHLORIDE SOLUTION
ASD-TDR-63-643 N64-11459 03-25

ELECTRIC FIELD GRADIENT TENSOR AT IRON NUCLEUS IN FERROUS COMPOUNDS
AD-425685 N64-12990 04-09

MAGNETOSTRICTION CONSTANT AND STRUCTURE OF IRON SILICIDE SINGLE CRYSTALS
E-T-R-63-4 N64-13132 04-19

HEAT TRANSFER TO ZINC-AIR AND FERROUS SULFIDE-AIR SYSTEMS
NASA-CR-55518 N64-16106 07-13

MOSSBAUER EFFECT IN FERREDOXIN ENRICHED WITH IRON-57
DP-878 N64-16557 08-23

OXIDATION OF FERROUS ION IN SOLUTIONS OF SULFAMIC AND NITRIC ACIDS
DP-871 N64-20489 13-07

ELECTRON MICROSCOPE STUDY OF LAMELLAR COMPOUNDS OF GRAPHITE WITH BROMINE, IODINE MONOCHLORIDE AND FERRIC CHLORIDE
EUR-542.E N64-21006 14-19

MAGNETIC SUSCEPTIBILITY OF FERROUS CHLORIDE TETRAHYDRATE AT LIQUID HELIUM TEMPERATURE
TR-20 N64-25656 17-23

ANTIFERROMAGNETISM OF FERROUS CHLORIDE TETRAHYDRATE
TR-21 N64-25831 17-19

FORMATION HEATS AND FREE ENERGIES OF SULFIDES OF MANGANESE, IRON, ZINC, AND CADMIUM
BM-RI-6495 N64-25841 18-07

SINTERING OF IRON-BONDED TITANIUM CARBIDES AND DETERMINATION OF MECHANICAL PROPERTIES
N64-28095 20-18

MOLECULAR STRUCTURE STUDIES USING MOSSBAUER EFFECT - IRON COMPLEXES AND COMPOUNDS
N64-30743 22-07

NUCLEAR ISOMER SHIFT AND COVALENCY IN IRON COMPLEXES N64-30795 22-25

IRON METEORITE
ORIGIN OF CHONDRULES AND CHONDRITE TYPES AND RELATION WITH IRON METEORITES AND ACHONDRITES
N64-13328 04-05

MINERALOGY OF OXIDATION PRODUCTS OF SPUTNIK IV FRAGMENTS & IRON METEORITES N64-15000 06-05

IRON METEORITE SHOWER OVER TURKMENIA
T-387-R N64-18459 10-05

DETERMINATION OF LEAD CONTENT IN IRON METEORITES
N64-25062 17-05

IRON METEORITE FOUND IN SIBERIA
N64-25064 17-05

PROPERTIES OF COHENITE FOR EVALUATION AS PRESSURE INDICATOR IN IRON METORITES
NASA-RP-246 N64-25973 18-29

EFFECT OF EARTH SHADOW ON TEMPERATURE OF IRON METEOROID BEFORE ENTERING EARTH ATMOSPHERE
NASA-RP-258 N64-26078 18-05

CHEMICAL COMPOSITION, STRUCTURE, AND CRYSTALLIZATION OF IRON METEORITES
FTD-MT-64-283 N64-30688 22-05

TRITIUM RETENTION IN IRON METEORITES - GEOCHEMISTRY N64-33155 24-12

IRON 57
ATTEMPT TO OBSERVE MOSSBAUER RESONANCE OF 137 KEV GAMMA RAY OF IRON 57
LAMS-3053 N64-18491 10-23

MOSSBAUER QUADRUPOLE RESONANCE IN IRON 57 SINGLE CRYSTALS
TR-4 N64-28275 20-23

NUCLEAR MODEL TO EXPLAIN ENERGY LEVELS OF NUCLIDE IRON 57
USNRDL-TR-742 N64-29854 21-23

AUTOMATIC RECORDING CONSTANT VELOCITY MOSSBAUER SPECTROMETER FOR IRON 57
TN-4 N64-30056 21-15

IRON 59
COMPOUNDS USED FOR ELIMINATION OF RADIOACTIVE IRON-59 IN ORGANISM N64-10038 01-16

TOXICOLOGY OF RADIOACTIVE IRON
FTD-TT-64-599/1 N64-33943 24-16

IRRADIATION
SA NEUTRON IRRADIATION
SA PROTON IRRADIATION
CF RADIATION
THERMOCONDUCTIVITY OF SINGLE-CRYSTAL COLUMNAR GRAINS IN IRRADIATED URANIUM DIOXIDE FUEL ELEMENTS
AECL-1822 N64-10376 01-13

EFFECT OF GAMMA RADIATION ON HISTOLOGICAL AND HISTOCHEMICAL STRUCTURES OF RAT SEX GLANDS
JPRS-22017 N64-10664 01-16

IRRADIATION OF HEAT CONDUCTING FINS IN RELATION TO OPTIMUM FORM N64-10693 02-23

EFFECT OF IRRADIATION ON BIOLOGICAL SUBSTANCES - POST-BURNING CHANGES IN METABOLISM
JPRS-22022 N64-10856 02-16

EFFECT OF SODIUM GALLATE ON NUCLEIC ACID CONTENT OF ORGANS OF HEALTHY AND IRRADIATED RATS
JPRS-19355 N64-11217 02-16

BIOCHEMICAL CHANGES RESULTING FROM IRRADIATION, HIGH TEMPERATURE, BURNS, & POLIOMYELITIS - MINERAL & PROTEIN METABOLISM, & IMMUNOLOGICAL DATA
JPRS-20298 N64-11224 02-16

IRRADIATION BEHAVIOR OF BULK BORON CARBIDE AND BORON CARBIDE-SILICON CARBIDE BURNABLE POISON PLATES FOR REACTOR CONTROL
WAPD-261 N64-11243 02-23

MORPHOLOGICAL CHANGES IN ANTERIOR LOBE OF PITUITARY GLAND, THYMUS, & ADRENAL GLAND UNDER IRRADIATION AND COOLING
JPRS-20037 N64-11320 02-16

REMOTE MICROSAMPLING OF IRRADIATED CERAMIC MATERIALS BY MICRODRILLING FOR USE IN FISSION PRODUCT MIGRATION
HW-79122 N64-11374 02-19

NERVOUS RESPONSE OF MAN TO INCREASED GRAVITY AND SPACE FLIGHT CONDITIONS - MOBILITY IN PRENATALLY IRRADIATED DOGS
JPRS-17586 N64-11521 03-01

MOBILITY RESPONSES IN ANTENATALLY IRRADIATED DOGS AT VARIOUS AGES - SENSORY STIMULATION
N64-11524 03-16

RELATIONSHIP OF CRYSTAL DEFECTS TO DIRECTION OF IRRADIATION - POWDER METALLURGY
N64-11527 03-25

MATERIAL IRRADIATION AT CRYOGENIC TEMPERATURES - PREPARATION OF TESTING EQUIPMENT AND NEUTRON FLUX MEASUREMENTS
NASA-CR-55044 N64-12030 03-18

DISTRIBUTION OF MOLECULAR WEIGHTS IN VINYL CHLORIDE POLYMERIZED BY IRRADIATION
NIJS-R-417 N64-12135 03-07

HIGH TEMPERATURE MATERIALS - IRRADIATION AND TESTS OF PHYSICAL PROPERTIES
GEMP-29A N64-12389 03-18

ELECTRON PARAMAGNETIC RESONANCE SPECTRA OF HYDRATED ELECTRON IN IRRADIATED FROZEN POTASSIUM HYDROXIDE SOLUTION N64-12496 04-23

SWELLING OF ALUMINUM-CLAD ALUMINUM-PLUTONIUM ALLOYS ON POSTIRRADIATION ANNEALING
ANL-6651 N64-12697 04-18

IRRADIATION OF TANDEM-EXTRUDED JOINTS BETWEEN ZIRCALOY AND STAINLESS STEEL
DP-859 N64-12721 04-18

EFFECTS OF CHRONIC IRRADIATION ON CIRCULATION IN WORKERS EXPOSED TO OVERDOSES OF X-RAYS AND GAMMA RAYS - INDUSTRIAL SAFETY N64-12749 04-16

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE AND SHIELDING AGENT ACTION AFTER REPEATED IRRADIATION
JPRS-22082 N64-12886 04-16

CYSTEAMINE ASCORBATE AS SHIELDING AGENT IN ANIMALS GIVEN PRIMARY & SECONDARY IRRADIATION
N64-12888 04-16

REACTION OF IRRADIATED PROTEIN RADICALS WITH RADICAL-REACTION INHIBITORS N64-12897 04-16

IRRADIATION AND POSTIRRADIATION ANNEALING OF SOME ALUMINUM-BASE URANIUM FUELS
ANL-6665 N64-13025 04-18

CHRONIC IRRADIATION EFFECTS ON LONGEVITY AND PERIPHERAL BLOOD ELEMENTS OF MONKEYS
SAM-TDR-63-55 N64-13078 04-16

CYTOLOGICAL EXAMINATION OF RADIOSENSITIVITY OF BONE MARROW & LYMPH NODE CELLS IN DIFFERENT SPECIES OF IRRADIATED MAMMALS
JPRS-22778 N64-13230 04-16

DEGRADATION OF POLYURETHANE SOLID PROPELLANT UNDER IRRADIATION
NASA-CR-53012 N64-13283 04-26

STAINLESS STEEL SHELL-URANIUM CORE REACTOR ROD EXAMINATION AFTER IRRADIATION TO HIGH BURNUP LEVEL
ANL-6103 N64-14419 06-23

PREPARING URANIUM 232 BY IRRADIATION OF RADIOACTIVE THORIUM ISOTOPES
MLM-1182 N64-16556 08-23

COBALT-60 BULK GRAIN IRRADIATION FACILITY
BNL-810/T-312/ N64-19091 11-16

INFLUENCE OF RADIOACTIVE THYMIDINE ON X-RADIATION EFFECTS ON DESOXYRIBONUCLEIC ACID SYNTHESIS
N64-19150 11-16

HELIUM-NEON GASEOUS BODY IRRADIATOR
N64-19448 12-25

EFFECT OF COBALT 60 IRRADIATION ON WEAR LIFE OF SOLID FILM LUBRICANTS
FTDM-3006 N64-20047 13-17

CAUSE OF DECREASE IN NATURAL RESISTANCE OF IRRADIATED ANIMALS TO LIVE BRUCELLOSIS VACCINE
JPRS-24896 N64-21282 14-16

TEMPERATURE CONTROL SYSTEMS FOR IRRADIATION EXPERIMENTS IN TEST REACTORS
NRL-1486 N64-25088 17-23

INADEQUACY OF THERMAL INITIATION THEORY IN INTERPRETING RESULTS OF FISSION FRAGMENT IRRADIATION OF EXPLOSIVES AT ELEVATED TEMPERATURES
PA-TR-3157 N64-25349 17-26

ENCAPSULATION TECHNIQUES FOR IRRADIATION EXPERIMENTS
NRL-MEMO-1481 N64-25633 17-23

EFFECT OF DOSE RATE ON CHROMOSOME ABNORMALITIES IN LIVER AND MARROW OF MICE IRRADIATED WITH FAST NEUTRONS, GAMMA-, AND X-RAYS
USNRDL-TR-740 N64-27649 19-16

MAGNETIC STUDIES OF IRRADIATED HEMATITE CRYSTALS
AD-412429 N64-27710 19-18

EFFECT OF SIMULATED IN-REACTOR ANNEALING ON MECHANICAL PROPERTIES OF IRRADIATED STAINLESS STEEL PRESSURE TUBE
BMI-1683 N64-27969 20-18

TEMPERATURE EFFECTS ON IRRADIATED SOLAR CELLS
N64-28222 20-06

STABILITY OF ZIRCALOY CLAD URANIUM DIOXIDE FUEL ELEMENTS IRRADIATED TO HIGH BURNUP
CRFD-1178 N64-28256 20-18

EXTERNAL GAMMA RADIATION EFFECTS ON RADIATION RESISTANT AND STABILIZATION-INHIBITING ADDITIVES OF POLYVINYL CHLORIDE N64-29120 21-07

CHANGES IN SILICON PHOTOVOLTAIC CELL PROPERTIES DUE TO SURFACE IRRADIATION N64-29154 21-06

ELECTRICAL PROPERTIES OF IRRADIATED SILICON SOLAR CELLS MEASURED FROM TEMPERATURE PROFILE
N64-29159 21-06

CABLE IRRADIATION TESTS FOR NASA RIFT PROGRAM
NASA-CR-56779 N64-29558 21-27

CONDUCTION BLOCKAGE OF ISOLATED SCIATIC NERVE OF FROG BY HIGH ENERGY IRRADIATION
N64-29725 21-16

IRRADIATION-PRODUCED RADICALS, ELECTRON MICROSCOPY OF SINGLE-STRAND DEOXYRIBONUCLEIC ACID, AND IRRADIATION-INDUCED DEFECTS IN DEOXYRIBONUCLEIC ACID
UCRL-11387, SUPPL. N64-30782 22-16

ELECTRON SPIN RESONANCE TECHNIQUES TO DETERMINE SPATIAL DISTRIBUTION OF RADICALS PRODUCED BY IRRADIATION N64-30783 22-07

COMPRESSION-SET BEHAVIOR OF IRRADIATED SILICONE ELASTOMERS COMPRESSED AT CONSTANT STRAIN IN AIR
NARF-63-2T N64-31299 22-19

OXIDATION RATES AND ACTIVATION ENERGIES OF ALTERNATELY IRRADIATED AND ANNEALED GRAPHITES
BNL-7567-R2 N64-32370 23-07

IRRADIATION CAPSULES FOR REACTOR FUEL EVALUATION - SYMPOSIUM
TID-7697 N64-33916 24-10

VITAMIN AND HORMONE EFFECTS ON HEMORRHAGIC DISEASE IN RATS CAUSED BY IRRADIATED FOOD
PR-14 N64-33993 24-16

IRREVERSIBLE PROCESS
DISSIPATION PROCESSES AND DEPARTURE FROM EQUILIBRIUM DURING IRREVERSIBLE PROCESSES IN DILUTE GASES
SUDAER-169 N64-12130 03-23

STATISTICAL MECHANICS OF IRREVERSIBLE THERMODYNAMIC REACTIONS USING GIBBS EQUATIONS
RSIC-187 N64-24348 17-13

BOGOLIUBOV THEORY OF IRREVERSIBLE PROCESSES IN CLASSICAL GASES AND HOMOGENEOUS SYSTEMS
AD-429541 N64-25087 17-07

DEVELOPMENT OF IRREVERSIBLE EVOLUTION EQUATIONS IN STATISTICAL MECHANICS FROM REVERSIBLE EQUATIONS OF MOTION
WIS-TCI-38 N64-26531 18-20

DERIVATION OF EQUATIONS FOR THERMODYNAMICS OF IRREVERSIBLE PROCESSES
WIS-TCI-42 N64-27520 19-13

MACROSCOPIC FOUNDATION OF IRREVERSIBLE THERMODYNAMICS - MACROSCOPIC AXIOM GOVERNING DISSIPATIVE PROCESSES N64-28075 20-13

ISCHEMIA
HYPOXIC AND ISCHEMIC FACTORS OF BRAIN DAMAGE - SYMMETRIC LESIONS N64-14599 06-16

QUANTITATIVE MEASUREMENT OF FRACTIONAL RENAL BLOOD FLOW BY TRACER TECHNIQUES FOR EVALUATING RENAL ISCHEMIA
UCLA-12-523 N64-21215 14-16

ISENTROPIC PROCESS
ROCKET PERFORMANCE FOR ISENTROPIC PROCESS OF CHEMICALLY FROZEN HYDROGEN THROUGH CONVERGING-DIVERGING NOZZLE
NASA-TN-D-2080 N64-11904 03-27

ISENTROPIC FLOW PROCESSES INVOLVING UNSTEADY EXPANSION WAVE IN EQUILIBRIUM REAL AIR
NASA-TR-R-167 N64-20286 13-11

COMPARISON OF SHOCK AND ISENTROPIC HEATING IN LIGHT-GAS GUN COMPRESSION
NRL-6063 N64-22956 16-11

TABLES FOR ISENTROPIC EXPANSION OF IDEAL GASES WITH CONSTANT SPECIFIC HEAT RATIO OF 1.400
RPE-TN-304 N64-27682 19-11

MEASUREMENT OF CHAPMAN-JOUGUET PRESSURES AND REACTION ISENTROPIC EXPONENTS OF PURE AND MIXED EXPLOSIVES FROM SMEAR CAMERA SHADOWGRAPHS OF CYLINDRICAL SHOCK WAVES IN WATER
NOLTR-64-58 N64-29864 21-11

ISIS SATELLITE
INTERNATIONAL SATELLITES FOR IONOSPHERIC STUDIES /ISIS/ PROGRAM - ALOUETTE B & ISIS A, B, & C SATELLITES N64-13291 04-32

ISLAND
VERTICAL HIGH FREQUENCY IONOSPHERIC SOUNDINGS IN PACIFIC ISLANDS
AFCRL-64-408 N64-25327 17-12

AIRBORNE RADIOMETRY TO MEASURE SURFACE TEMPERATURE OF TROPICAL ISLAND
NASA-CR-58529 N64-29547 21-12

INSTABILITY OF THREE ROW VORTEX STREETS ON LEEWARD SIDE OF ISLAND GROUPS
PIBAL-784 N64-32135 23-11

ISOBAR
CF ATMOSPHERIC PRESSURE
LONG-PERIOD WAVES IN TROPOPAUSE AT ISOBARIC SURFACES AND GROUND-LEVEL PRESSURE DURING IGY
N64-10818 02-12

IGY UPPER AIR CHARTS FOR CONSTANT PRESSURE SURFACES AT STRATOSPHERIC LEVELS FOR NORTHERN HEMISPHERE - SYNOPTIC WEATHER MAPS
N64-19896 12-21

AIR DENSITY CHANGE AT SEA LEVEL COMPUTED FROM ISOBARIC LEVELS OF ATMOSPHERE N64-27940 20-21

ISOLATION
STRESS AND FATIGUE IN HUMAN BEHAVIOR DURING ISOLATION FROM EXTERNAL STIMULI
JPRS-24961 N64-21288 14-16

STRESS AND FATIGUE UNDER ISOLATED CONDITIONS
FTD-TT-63-1015/1&2&4 N64-21938 15-14

MAINTENANCE OF HABITS OF INFORMATION TRANSMISSION UNDER LONG TERM ISOLATION CONDITIONS
N64-23759 16-16

FLUCTUATIONS IN ELECTROENCEPHALOGRAM OF MAN UNDER EXTENDED ISOLATION N64-23867 16-16

HALLUCINATIONS AS FUNCTION OF SUSTAINED SENSORY DEPRIVATION AND SOCIAL ISOLATION
AD-439431 N64-25127 17-16

NATURAL FREQUENCY OF VIBRATION OF COMPRESSOR FOUNDATION AND ISOLATION FROM ENVIRONMENT
NAL-TN-AE-22-63 N64-28980 20-33

RECOVERY AND ISOLATION OF TECHNETIUM FROM FISSION PRODUCT WASTES
NASA-CR-58966 N64-33157 24-18

ISOLATOR
SPRING-MASS-DAMPER SHOCK ISOLATOR SYSTEM
NASA-CR-55 N64-22041 15-17

ISOLATOR AND AMPLITUDE STABILIZER LOGIC CIRCUIT
FTD-TT-62-1500/1&2 N64-23405 16-20

ISOMER
RATIO OF CERIUM 137 ISOMERS PRODUCED IN CHARGED PARTICLE REACTIONS
UCRL-11049 N64-11989 03-23

ABSORPTION SPECTRUM OF CESIUM IN PRESENCE OF ISOMERIC HYDROCARBONS N64-13159 04-23

RAPID RADIOCHEMICAL SEPARATION OF RADIOISOTOPES WITH SHORT HALF LIVES, AND PRODUCTION BY NEUTRON IRRADIATION OF SHORT-LIVED METASTABLE ISOMERS
NYO-10174 N64-17732 09-07

RATIO OF TWO ISOMERS OF SCANDIUM 44 PRODUCED BY SCANDIUM 43 /D,T/ SCANDIUM 45 N64-30481 22-23

RATIO OF COBALT 58 ISOMERS PRODUCED IN COBALT 59 /D,T/ COBALT 58 REACTIONS N64-30482 22-23

NUCLEAR ISOMER SHIFT AND COVALENCY IN IRON COMPLEXES N64-30795 22-25

ISOMERIZATION
CF CONVERSION
SURFACE AND ISOMERIZATION CHARACTERISTICS OF PLATINUM-SILICON-ALUMINUM N64-28049 20-07

SYNTHESIS OF CYCLOALKANONE ALKYLHYDRAZONES AND FACTORS INFLUENCING ISOMERIZATION TO CYCLOALKANE AZO ALKANES
GNE/PHYS/64-15 N64-33887 24-07

ISOTHERM
CF ATMOSPHERIC TEMPERATURE
ISOTHERMAL HEAT FLOW CALORIMETER FOR LARGE VOLUME SAMPLES
UCRL-7490 N64-11474 03-15

THERMAL RADIATION CHARACTERISTICS OF REFRACTORY OXIDES UNDER NONISOTHERMAL CONDITIONS
ASD-TDR-62-719 N64-24182 16-13

RADIANT ENERGY EMISSION FROM ISOTHERMAL AND NONISOTHERMAL GASES N64-26288 18-11

SORPTION ISOTHERM OF PHOSPHORUS AND SYNTHETIC FAUJASITE
QTSR-2 N64-26716 18-07

EFFECT OF URANIUM ON ISOTHERMAL TRANSFORMATION AND HARDENING ABILITY OF LOW ALLOY STEEL
BM-RI-6515 N64-30066 21-18

MONTE CARLO SOLUTION OF RADIANT ENERGY TRANSFER AND TEMPERATURE IN NONGREY NONISOTHERMAL GAS BETWEEN PARALLEL BLACK WALLS
NASA-RP-317 N64-31208 22-13

ISOTHERMAL PROCESS
CALCULATION OF HEATS OF VAPORIZATION AND FUSION OF RARE GASES FROM ISOTHERMAL REVERSIBLE WORK REQUIRED TO COMPRESS FLUIDS
NAA-SR-8879 N64-10364 01-07

ISOTHERMAL CONTINUUM MECHANICS THEORY - STABILITY OF HETEROGENEOUS AND HOMOGENEOUS MATERIALS
AD-429286 N64-20023 13-20

ISOTHERMAL RECRYSTALLIZATION OF ELECTROREFINED VANADIUM
BM-RI-6547 N64-33464 24-18

ISOTOPE
SA DEUTERIUM
SA RADIOACTIVE ISOTOPE
SA TRITIUM
RUBIDIUM, STRONTIUM, & STRONTIUM ISOTOPIC COMPOSITION OF TEKTITES
NASA-TM-X-51168 N64-11339 02-05

MASS SPECTROMETRY DETERMINATION OF ISOTOPIC COMPOSITION OF ELEMENTS
ORNL-3528 N64-11822 03-27

HYPERFINE STRUCTURES OF STABLE LITHIUM ISOTOPES, &
RADIOACTIVE ISOTOPES OF RHENIUM
UCRL-11047 N64-11988 03-23

ISOTOPIC COMPOSITION OF GERMANIUM IN METEORITES N64-13010 04-05

HOMOLOGY THEORY APPLIED TO ISOTOPY OF FINITE SPACES SUBJECT TO TRIANGULATION
AROD-2663-4 N64-13147 04-23

ALPHA DECAY OF PROTACTINIUM ISOTOPES
UCRL-11082 N64-14070 05-23

ISOTOPIC PHASE SEPARATION IN SOLID MOLECULAR HYDROGEN AND DEUTERIUM
TR-10 N64-14766 06-23

NUCLEAR REACTIONS IN HEAVY ISOTOPES OF NICKEL
FTD-MT-63-5/1&2&3&4 N64-14827 06-23

EVIDENCE FOR NEW REGION OF NUCLEAR DEFORMATION IN NEUTRON-DEFICIENT RARE EARTH METALS PRODUCING NEUTRON-DEFICIENT LANTHANUM ISOTOPES
UCRL-10798 N64-15241 07-23

ISOTOPE EFFECT IN SUPERCONDUCTIVITY N64-15309 07-23

SHELL MODEL STUDY OF CHLORINE AND NUCLEI WITH 36 NUCLEONS - BEHAVIOR AND EIGENVECTOR PROPERTIES IN LOW ENERGY LEVEL
KFKI-1491/F N64-15989 07-23

ISOTOPE TECHNOLOGY RESEARCH IN FIELDS OF WASTE DISPOSAL, WATER, AIR POLLUTION, AND WEATHER
TID-7681 N64-16018 07-23

ADHESIVES, PLASTICS, AND ISOTOPE RESEARCH
MLM-1157 N64-16265 08-23

ADHESIVES AND PLASTICS, RADIOACTIVE ELEMENTS, ISOTOPE SEPARATION, ALPHA AND NEUTRON SOURCE DEVELOPMENT, AND ANALYSIS
MLM-1179 N64-18406 10-23

ISOTOPE SEPARATION AND PURIFICATION - MULTIPLE SOURCE COINCIDENCE CORRECTION - RADIOCHEMISTRY OF POLONIUM
MLM-1178 N64-19058 11-23

HANDBOOK OF SHIELDING REQUIREMENTS & RADIATION CHARACTERISTICS OF ISOTOPIC POWER SOURCES FOR TERRESTRIAL, MARINE, AND SPACE APPLICATIONS
ORNL-3576 N64-19070 11-23

MAINTENANCE OF ISOTOPIC ABUNDANCE IN FORMATION OF ELEMENTS N64-19338 12-05

NUCLEAR REACTION CROSS SECTIONS OF ISOTOPES OF ALUMINUM, SODIUM, AND CARBON
CERN-64-17 N64-19476 12-23

ISOTOPIC EXCHANGE REACTIONS IN CHEMISORPTION OF OXYGEN ON SILVER AND OTHER ELECTRODES
AD-438942 N64-21291 14-06

TECHNIQUE FOR MEASURING ISOTOPICALLY RESOLVED ENERGY SPECTRA OF HIGH ENERGY PARTICLES - HYDROGEN AND HELIUM ISOTOPES
ATN-64/9234/-2 N64-21368 14-23

ISOTOPE EFFECTS ON DECOMPOSITION OF ACTIVATED CIS-BUTENE-2 AT LOW TEMPERATURES
AD-432304 N64-22127 15-07

EFFECT OF DILUENT GAS ON SELF-INDUCED ISOTOPIC EXCHANGE BETWEEN TRITIUM AND WATER VAPOR
USNRDL-TR-738 N64-22923 16-07

RELATIVE ABUNDANCES OF ENERGETIC HYDROGEN ISOTOPES PRODUCED IN SOLAR FLARES
TR-CR-71 N64-24877 17-28

RELATION BETWEEN MODES OF RADIOACTIVE DECAY OF CESIUM 134 N64-25558 17-23

VISCOSITY OF ISOTOPES OF HYDROGEN AND THEIR INTERMOLECULAR FORCE POTENTIALS - SQUID PROJECT
BRN-11-P N64-25797 17-19

RADIOACTIVE DATING OF LUNAR SURFACE BY RARE GAS ISOTOPE CONCENTRATION MEASUREMENTS
NASA-CR-56792 N64-27884 20-07

VARIATION OF STRONTIUM ISOTOPIC COMPOSITION IN TEKTITES
NASA-RP-292 N64-28353 20-07

APPLICATION OF ISOTOPE CHEMISTRY TO INTERMOLECULAR FORCE, GEOCHEMICAL, AND LIFE SCIENCE STUDIES
BNL-870/T-349/ N64-28700 20-07

RATIO OF COBALT 58 ISOMERS PRODUCED IN COBALT 59 /D,T/ COBALT 58 REACTIONS
N64-30482 22-23

PHYSIOLOGICAL VALUE OF RADIOISOTOPE - KINETIC BEHAVIOR OF TRACERS
BNL-857/T-341/ N64-30623 22-16

AGE AND EVOLUTION OF METEORITIC AND TERRESTRIAL MATTER - APPLICATION OF RADIOCHEMICAL METHODS AND ISOTOPIC ANALYSIS FOR AGE DETERMINATIONS
FTD-MT-64-282 N64-30811 22-29

OXYGEN ISOTOPE SEPARATION WITH OZONE ELECTROSYNTHESIS
FTD-TT-64-326/1&2 N64-31107 22-07

CONSTRUCTION OF ELECTROMAGNETIC ISOTOPE SEPARATOR
N64-32008 23-10

HOT CATHODE ION SOURCE FOR ISOTOPE SEPARATOR
N64-32009 23-10

CONDUCTIVE ADHESIVES AND RADIOACTIVE ELEMENT RESEARCH - PARTICLE SOURCES, ISOTOPE SEPARATION, AND KRYPTON-85 COUNTING
MLM-1203 N64-32827 24-07

ISOTOPE SHIFT
CF NUCLEAR SPECTROSCOPY
ENERGY VALUES AND ISOTOPE SHIFTS OF ONE P AND THREE P LEVELS OF HELIUM AND LITHIUM
NASA-CR-52694 N64-11380 02-23

WAVE FUNCTION CALCULATION OF ENERGY STATES OF THREE ELECTRON SYSTEMS FOR ISOTOPE SHIFT, DIPOLE POLARIZABILITY, AND HYPERFINE SPLITTING STUDIES
N64-17011 09-23

ISOTOPE SHIFTS AND VIBRATIONAL STRUCTURE IN SOME WEAKER SYSTEMS OF NITROGEN N64-30306 22-23

THEORETICAL DETERMINATION OF ISOTOPE SHIFT IN CARBON ATOM SPECTRUM
TR-406 N64-32274 23-23

ISOTROPISM
S ANISOTROPY
S CRYSTAL STRUCTURE
S SYMMETRY

ITALY
MISSION OF MISSILE RANGE IN ITALY
N64-22873 16-10

ITERATION
CLASS OF LINEAR DIFFERENTIAL EQUATIONS WITH SLOWLY CHANGING PARAMETERS - PERTURBATION FREQUENCY BY ITERATION METHOD
MH-TRANS-460 N64-11577 03-20

ONE-DIMENSIONAL ITERATIVE LOGIC NETWORKS
AFCRL-63-328 N64-13609 05-20

ANALOGIES BETWEEN HIGHER ORDER ANALYTICAL AND NUMERICAL PERTURBATION-ITERATION METHODS
N64-17517 09-20

ITERATIVE SOLUTION
GAS FLOW PAST BLUNT BODIES & TRIANGULAR WING AND ITERATIVE SOLUTION OF LINEAR BOUNDARY PROBLEM
FTD-TT-62-1502/1&2 N64-12482 04-01

ITERATION METHODS FOR SOLVING LINEAR BOUNDARY PROBLEM N64-12483 04-20

ITERATIVE SOLUTION OF GOVERNING EQUATION FOR INVISCID, RADIATION RESISTED SHOCK WAVES
NASA-TN-D-2128 N64-12690 04-11

ITERATIVE SOLUTION OF INVISCID FLOW FIELD ABOUT SUPERSONIC AXISYMMETRIC BLUNT BODY - FLOW EQUATIONS
R-72 N64-18699 11-02

HYPERBOLIC SYSTEM OF EXTRAPOLATION FOR ITERATIVE SOLUTION TO EQUATIONS
RM-3975-PR N64-21917 15-20

CONVERGENCE RATES OF ITERATIVE METHODS FOR NUMERICAL SOLUTION OF ELLIPTIC DIFFERENCE EQUATIONS
TR-28 N64-27546 19-20

ITERATIVE METHOD FOR DETERMINING VALUE OF CARRYING OUT A PARTICULAR TEST
EUR-1824.I N64-28676 20-01

ITERATIVE SOLUTIONS OF HELMHOLTZ EQUATION
AFCRL-64-684 N64-32112 23-20

J

J-BAND
DETECTING PROTEINS IN TRACE AMOUNTS BY J-BAND ANALYSIS
NASA-CR-56520 N64-22780 16-16

DETECTION OF PROTEIN IN TRACE AMOUNTS BY J-BAND ANALYSIS
NASA-CR-56522 N64-22782 16-16

DYE METHOD FOR DETECTING TRACE AMOUNTS OF PROTEINS BY J-BAND ABSORPTION TECHNIQUE
NASA-CR-56534 N64-22795 16-07

J-47 ENGINE
DETECTION OF TURBINE WHEEL TEMPERATURES IN J-47 AND TURBOJET ENGINES USING TOTAL RADIATION PYROMETER
AD-426917 N64-24383 17-15

JACOBI MATRIX METHOD
NONLINEAR PROGRAMS WITH POSITIVELY BOUNDED JACOBIAN MATRIX
ORC-64-12/RR/ N64-33310 24-20

JACOBI POLYNOMIAL
CELESTIAL MECHANICS - DIFFERENTIAL EQUATIONS DEFINED AS STABLE IN JACOBIAN SENSE WHEN CORRESPONDING VARIATIONAL EQUATIONS ARE STABLE
MH-TRANS-426 N64-11572 03-20

ALGORITHM EMPLOYING JACOBI-LIKE PROCEDURE FOR DIAGONALIZING A REAL SYMMETRIC MATRIX
N64-17560 09-20

JAHN-TELLER EFFECT
VALENCE BOND METHOD APPLIED TO JAHN-TELLER EFFECT
AD-428802 N64-14472 06-25

JAMMING
INTERFERENCE SIGNAL POWER INPUT TO JAM OR REDUCE PERFORMANCE OF SATELLITE REPEATER
SSD-TDR-63-203 N64-14344 06-08

GUIDING FIGHTER AIRCRAFT TO AIRBORNE TARGETS THROUGH PASSIVE AND ACTIVE RADAR JAMMING INTERFERENCE
FTD-TT-62-1879/1&2 N64-19193 11-22

MATHEMATICAL MODEL FOR ANTIJAMMING SCHEMES OF COMMUNICATION SYSTEMS - ERROR ANALYSIS FOR TWO METHODS OF COHERENT DETECTION
SSD-TDR-64-74 N64-28162 20-08

JAPAN
DATA ON IONOSPHERIC DRIFTS AT YAMAGAWA, JAPAN FOR 1959 N64-12345 03-12

WEATHER CONDITIONS & PRECIPITATION IN TOKYO, JAPAN
RSIC-109 N64-13814 05-21

GEODETIC TRIANGULATION SURVEY IN JAPAN
N64-14161 05-12

JET
SA ARC JET
SA TURBULENT JET
COANDA FLOW OF TWO-DIMENSIONAL WALL JET ON OUTSIDE OF CIRCULAR CYLINDER
REPT.-63-11 N64-11091 02-11

EXPERIMENTS ON JET-FLAP DELTA WING IN GROUND EFFECT
COA-AERO-164 N64-11595 03-03

GENERALIZED VISCOUS MULTICOMPONENT-MULTIPHASE FLOW WITH APPLICATION TO LAMINAR & TURBULENT HYDROGEN JETS
AIAA PAPER-63-507 N64-12017 03-11

JET FLAP THRUST RECOVERY VERIFICATION & MECHANISM IDENTIFICATION
SUDAER-144 N64-12115 03-09

CONSTRICTED-ARC SUPERSONIC JET EVALUATION
NASA-TN-D-2066 N64-12717 04-24

INHIBITED JET CHARGE HYPERVELOCITY ACCELERATOR
N64-13519 05-23

VISCOUS EFFECTS ON BALANCED JETS IN GROUND PROXIMITY
TRECOM-TR-63-59 N64-13835 05-02

AERODYNAMIC CHARACTERISTICS OF TWO-DIMENSIONAL TURBULENT COMPRESSIBLE JETS
A-1771-24 N64-13956 05-11

VISCOUS & FORWARD SPEED EFFECTS ON UNBALANCED AIR JETS IN GROUND PROXIMITY - GROUND EFFECT MACHINE
TRECOM-TR-63-60 N64-14008 05-04

AEROTHERMOELASTIC TESTING IN FREE JET
N64-15647 07-11

ACOUSTIC RADIATION FROM TURBULENT, SUBSONIC, AND SUPERSONIC JETS
AGARD-448 N64-16293 08-23

HIGH VELOCITY CUMULATIVE JETS - STRUCTURAL ANALYSIS BY SLOW MOTION PHOTOGRAPHY AND LUMINOSITY SPECTRA
FTD-TT-63-566/1&2&4 N64-16378 08-11

FLEXIBLE JET EXTENSION FOR GROUND EFFECT MACHINES
REPT. 2131-920002 N64-17451 09-04

HALL POTENTIALS AND FLOW FIELD PERTURBATIONS IN MAGNETOGASDYNAMIC FLOW OF AXISYMMETRIC FREE JET
AS-64-1 N64-17527 09-24

METHOD FOR COMPUTING REACTION RATES FOR HYDROGEN-AIR MIXTURES IN RAMJET ENGINE N64-18137 10-26

SHOCK WAVE OR SPECIES SEPARATION IN SMALL SUPERSONIC JETS OF GAS MIXTURES - SQUID PROJECT
N64-18854 11-11

CONTROL SURFACES IN SUPERSONIC JETS - NOZZLE SHAPE, EXTERNAL PRESSURE, & CONTROL SURFACE GEOMETRY
RAE-TRANS-1049 N64-19295 11-03

MULTICOMPONENT MULTIPHASE VISCOUS FLOW WITH APPLICATIONS TO LAMINAR AND TURBULENT JETS OF HYDROGEN
NASA-CR-53509 N64-19985 12-11

PERFORMANCE CHARACTERISTICS OF TWO-DIMENSIONAL CENTER JET EJECTOR
TN-AE-18-63 N64-20442 13-02

CONTROL OF SECONDARY AIR JET IN COMBUSTION CHAMBERS OF GAS TURBINES
FTD-TT-62-1786/1&2 N64-21646 15-26

DISCHARGE OF BOILING LIQUID THROUGH JET NOZZLE
FTD-TT-62-1836/1&2&4 N64-22406 15-13

VISCOUS MIXING OF TWO-DIMENSIONAL AIR STREAM FROM JET NOZZLES
FROST REPT.-197-4 N64-22963 16-02

HIGHLY UNDEREXPANDED FREE-JET BOUNDARY CONTOURS
NASA-TN-D-2327 N64-23032 16-11

INTEGRAL EQUATIONS FOR FLOW AND VORTEX DISTRIBUTIONS IN PROPELLER-TYPE JET NOZZLES
DVL-277 N64-24060 16-11

PRINCIPAL VECTOR AND PRINCIPAL MOMENT OF REACTIVE AND CORIOLIS FORCES IN ROCKET ENGINES
NASA-TT-F-8693 N64-24910 17-26

GROUND PROXIMITY EFFECT ON PERFORMANCE OF POWERED LIFT VEHICLES WITH VTOL CONFIGURATIONS
TCEA-TN-14 N64-25031 17-04

INTERACTION OF OBLIQUE SHOCKS AND EXPANSION WAVES WITH JET BOUNDARY MIXING ZONE FOR FLUID AMPLIFIER STUDY N64-25258 17-11

WIND TUNNEL TESTS OF HIGH ASPECT RATIO RECTANGULAR WING FLAP
ARC-R&M-3329 N64-25717 17-03

EFFECT OF PRESSURE PROBE HOLE SIZE ON MEASUREMENT OF CHARACTERISTICS OF LAMINAR, UNIFORM VELOCITY, PROFILE JET
NASA-CR-56949 N64-25772 17-11

LATERAL INTERACTION OF JET AND FREE STREAM AT SUPERSONIC SPEEDS AND USE IN REACTION CONTROL
ADR-01-07-63.2 N64-25919 18-02

JET FORMATION AND ANGLES OF DEFLECTION RESEARCH - NOZZLE FLOW N64-26031 18-11

INTERFERENCE EFFECTS OF ROUND OR SLOTTED JETS ON VTOL AIRCRAFT MODEL IN TRANSITION
NASA-TN-D-2380 N64-26628 18-04

EFFECT OF PARTICLE INTERNAL MOTION IN COMBUSTION CHAMBER AND JET NOZZLE ON PRINCIPAL VECTOR AND MOMENT OF REACTIVE FORCES
NASA-TT-F-9041 N64-27231 19-26

FLOW VISUALIZATION STUDIES NEAR MACH DISC IN UNDEREXPANDED, INVISCID JETS
GDA-DBE-64-041 N64-27565 19-11

HYDRAULIC COMPRESSOR APPARATUS FOR FREE LIQUID JET BLOWOUT AT SUPERSONIC VELOCITY
FTD-TT-64-252/1&2&4 N64-27843 19-11

COMPARATIVE THRUST MEASUREMENTS ON JET-FLAP CONFIGURATIONS AND CIRCULAR NOZZLES
ARC-CP-616 N64-28032 20-03

ATTITUDE STABILIZATION OF MANNED SPACECRAFT BY TWIN GYROS AND PULSE-MODULATED REACTION JETS
NASA-TN-D-1645 N64-30092 21-06

FLOW CHARACTERISTICS AND DRAG DUE TO SUPERSONIC JETS DISCHARGING UPSTREAM INTO SUPERSONIC FLOW
AD-603354 N64-30661 22-11

BODY FLAPS, SPOILERS, & COLD GAS REACTION JETS FOR CONTROL IN HYPERSONIC FLIGHT
OR-3719 N64-30761 22-02

LATERAL PARTICLE INJECTION THROUGH JET NOZZLE INTO SUPERSONIC AIRSTREAM
AEDC-TDR-64-181 N64-31067 22-11

EFFECT OF JET ENTRAINMENT ON DRAG OF JET FLAP
REPT.-64-13 N64-31243 22-03

EXPERIMENTS ON JET FLAP IN SUPERCAVITATING FLOW
N64-31589 23-03

FAR-FIELD FLOW OF SUPERSONIC JET EXHAUSTING INTO PARALLEL FLOWING STREAM
UTC-TM-14-63-U35 N64-33007 24-11

JET AIRCRAFT
CZECHOSLOVAKIAN JET TRAINER
FTD-TT-63-218/1 N64-16952 09-04

WIND-TUNNEL FLUTTER STUDIES OF SWEPTBACK T-TAIL FOR LARGE MULTIJET CARGO AIRCRAFT AT MACH NUMBERS TO 0.90
NASA-TN-D-2179 N64-17725 09-04

OZONE CONCENTRATIONS IN PRESSURIZED CABINS OF COMMERCIAL JET AIRCRAFT ABOVE 25,000 FEET
FAA-ADS-5 N64-20444 13-21

VIBRATION DATA COLLECTED ON JET FIGHTERS AND LIGHT ATTACK BOMBERS
AD-297924 N64-21508 15-15

AERODYNAMIC CHARACTERISTICS OF JET V/STOL AIRCRAFT
ASME PAPER-864A N64-23378 16-04

FLIGHT TEST OF SCALE MODEL VECTORED-THRUST JET VTOL TRANSPORT AIRCRAFT
NASA-TN-D-2285 N64-26412 18-04

EFFECTS OF AIR TRAFFIC OPERATING AT SEVERAL PROPOSED JETPORTS UPON AIR TRAFFIC CONTROL SYSTEM N64-26466 18-10

THRUST REQUIREMENTS VTOL SUPERSONIC MILITARY AND TRANSPORT JET AIRCRAFT
DFL-233 N64-27227 19-04

HAZARDS ENCOUNTERED BY JET AIRCRAFT FROM LIGHTNING
TR-179 N64-27854 19-04

SPACE FLIGHT OF JET AIRCRAFT WITH IONIC OR PLASMA ENGINE N64-31524 23-32

JET AMPLIFIER
PNEUMATIC LOGIC CIRCUITS USING JET AMPLIFIERS N64-23818 16-11

JET COMPRESSOR GEOMETRY EFFECT ON EFFICIENCY
PR-10 N64-28827 20-11

AUTOMATIC FLUID JET AMPLIFIERS AND PNEUMATIC CIRCUITS
JPRS-26746 N64-32127 23-17

JET CONDENSER
SPACE POWER SYSTEM JET CONDENSERS & RADIATORS - MERCURY TEST FLUID & HIGH SPEED PHOTOGRAPHIC STUDIES
NASA-CR-52862 N64-11232 02-06

JET ENGINE
ANALOG-DIGITAL DATA RECORDING EQUIPMENT FOR INVESTIGATING JET ENGINE PERFORMANCE N64-13924 05-20

JET ENGINE NOISE EFFECT ON AIRCRAFT PERFORMANCE
AGARD-433 N64-13942 05-23

EQUATIONS OF MOTION FOR AIRCRAFT WITH JET ENGINES
FTD-MT-63-94/1&2 N64-14378 06-04

EFFECT OF CHEMICAL COMPOSITION AND ADDITIVES ON FUEL COMBUSTION IN JET ENGINES
FTD-TT-62-743/1&2&4 N64-16059 07-26

COMBUSTION VIBRATION IN LIQUID FUEL ROCKET ENGINES AND JET ENGINES
FTD-TT-62-942/1&2 N64-18890 11-26

RADIATION EFFECT ON GTO-915 LUBRICATING OIL FOR HIGH TEMPERATURE JET ENGINE APPLICATION
FGT-2767 N64-20037 13-17

EFFECT OF NOISE FROM CARRIER DECK JET ENGINE OPERATION ON HEARING, SPEECH INTERFERENCE, AND SONIC FATIGUE
AD-432086 N64-21840 15-14

LOW POWER ARC-JET ENGINES AND USE IN SPACE FLIGHTS
AIAA PAPER-64-502 N64-24167 16-27

TEST PROGRAM FOR AIR BREATHING JET ENGINES N64-25387 17-27

IN-FLIGHT THRUST MEASUREMENT METHODS FOR COCKPIT PRESENTATION OF JET ENGINE PERFORMANCE
F-A2495-8 N64-25741 17-27

PERFORMANCE CHARACTERISTICS OF AIR TURBO-EXCHANGER ENGINE
MF-180 N64-26801 18-27

SUPERSONIC FLOW CAPABILITY OF ALTITUDE TEST FACILITY FOR AERODYNAMIC RESEARCH AND FREE JET AIR BREATHING ENGINE TESTING
NATTS-ATL-92 N64-30184 21-10

PILOT MODEL OF TUBE TRANSPORT SYSTEM BASED ON JET ENGINE TRANSFER OF AIR FROM FRONT TO REAR OF VEHICLE N64-30411 22-10

MINIATURIZATION OF VALVELESS PULSE JET ENGINES
ARD-307 N64-30533 22-27

THERMAL STABILITY OF REFRACTORY AND CERAMIC MATERIALS IN ATOMIC REACTORS, ROCKETS, AND JET ENGINES
NASA-TT-F-9065 N64-31336 22-19

INLET TEMPERATURE RISE & LIFT-FORCE OF JET-ENGINE POWERED VTOL AIRCRAFT IN GROUND EFFECT
REPT.-2099-928002 N64-32551 23-04

FIELD TESTS TO REDUCE VIBRATION EFFECTS IN JET ENGINES
AD-603141 N64-33795 24-33

JET FLIGHT
EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 5-HYDROXYINDOLEACETIC ACID DURING JET FLIGHTS
JPRS-23607 N64-16544 08-16

JET FLOW
PRESSURE DISTRIBUTION OF TURBULENT JET FLOW ON FLAT SURFACE
REPT. 63-12 N64-13046 04-02

SHROUD EXCITATION BY PRESSURE OSCILLATION OF TURBULENT FLOW IN SUBSONIC JET
NPL-AERO-1064 N64-14238 06-23

FORMULAS FOR SPATIAL DISTRIBUTION OF MOLECULES AND JET FORMATION IN FLOW THROUGH SHORT TUBE
RSIC-114 N64-15124 07-23

BIBLIOGRAPHY ON AEROSONICS - AERODYNAMIC SOUND AND FLUID DYNAMICS OF JET FLOW
REPT.-64-20 N64-25207 17-11

INTERACTIONS OF TRANSVERSELY IMPINGING UNDEREXPANDED JET FLOWS FOR SUPERSONIC MOMENTUM EXCHANGE FLUID AMPLIFIERS N64-25256 17-11

SPREADING RATES OF COMPRESSIBLE TWO-DIMENSIONAL REATTACHING JET FLOWS FOR VELOCITY PROFILE IN FLUID AMPLIFIERS N64-25257 17-11

DEFLECTION AND RELATIVE FLOW OF THREE INTERACTING JETS FOR FLUID AMPLIFIER STUDY N64-25261 17-11

HYDRODYNAMICS OF FREE JET IN FLUID JET AMPLIFIER N64-25263 17-11

ANALYTICAL TECHNIQUES FOR PURE FLUID AMPLIFIERS - FOCUSSED JET AXISYMMETRIC FLUID DEVICE N64-25269 17-11

JET SPREADING CHARACTERISTICS FROM CONICAL UNDEREXPANDED NOZZLES INTO QUIESCENT ATMOSPHERE
AEDC-TDR-64-95 N64-26916 18-02

POTENTIAL THEORY FOR DEFLECTED JET FLOW - COANDA EFFECT
NLR-TN-G-31 N64-31711 23-11

JET FUEL
SA JP-4 JET FUEL
DETERIORATION OF JET FUEL THERMAL-STABILITY DURING NORMAL STORAGE, AND STABILITY ADDITIVES - LITERATURE REVIEW
RTD-TDR-63-4270 N64-15735 07-26

DETECTING ELEMENTAL SULFUR IN JET FUELS

FTD-TT-62-1451/1&2&4 N64-16348 08-07

GROWTH AND NONGROWTH OF VARIOUS MICROORGANISMS IN JET FUELS, LUBRICANTS, AND HYDROCARBONS
RTD-TDR-63-4117, PT. 1 N64-18029 10-26

THERMOSTABILITY OF JET ENGINE FUELS
FTD-TT-63-343/1&2&4 N64-18312 10-26

ATMOSPHERIC LIGHT SCATTERING AND JET FUEL CONTAMINATION N64-19176 11-01

JET FUEL CONTAMINATION N64-19177 11-26

SYNTHETIC ELASTOMER AS SEALANT FOR JET FUEL TANK
FTDM-3124 N64-20052 13-19

RADIOISOTOPIC DETECTION OF MICROBIAL CONTAMINATION PRESENT IN JET FUEL
ADR-09-08A-63.1 N64-22129 15-26

RECLAMATION OF THERMALLY UNSTABLE JET FUELS
APL-TDR-64-74 N64-25483 17-26

REAL GAS EFFECT ON KEROSENE FUELED HYPERSONIC RAMJET PERFORMANCE N64-26330 18-27

FUEL CONSUMPTION FOR TURBINE JET ENGINES - FUEL COMPONENTS
FTD-TT-64-349/1&2 N64-30544 22-26

PERFORMANCE OF JET ENGINE FUELS FOR SUPERSONIC TRANSPORT AIRCRAFT
LD-121 N64-32284 23-26

JET MIXING
CHARACTERISTICS OF AXISYMMETRIC AND TWO-DIMENSIONAL ISOENERGETIC JET MIXING ZONES
AEDC-TDR-63-253 N64-13837 05-11

GAS DYNAMICS - THRUST INCREASE BY JET MIXING
TIL/T-5349 N64-15556 07-27

MIXING RATE WITH AMBIENT AIR OF COLD AIRSTREAM IN CENTRIFUGAL FIELD
ARC-CP-687 N64-16532 08-11

EJECTION AND JET MIXING IN TURBULENT GAS JETS
FTD-TT-63-222/1&2&4 N64-17186 09-11

COMPRESSIBILITY EFFECT ON TURBULENT JET MIXING N64-17188 09-11

STATISTICAL ANALYSIS OF VELOCITY DISTRIBUTION OF TURBULENCE IN MIXING REGION OF ROUND SUBSONIC JET
AGARD-451 N64-18721 11-11

SPACE-TIME CORRELATION OF U-COMPONENT OF TURBULENCE IN JET MIXING REGION
AGARD-452 N64-18722 11-11

MIXING OF GAS JETS IN CHANNEL OF VARIABLE CROSS SECTION
TIL/T-5410 N64-29378 21-11

JET NOISE
JET NOISE - NOISE-ANALYZING EQUIPMENT AND CONSTRUCTION OF ANECHOIC CHAMBER
NASA-CR-55144 N64-13008 04-23

JET ENGINE NOISE EFFECT ON AIRCRAFT PERFORMANCE
AGARD-433 N64-13942 05-23

ACOUSTIC RADIATION FROM TURBULENT, SUBSONIC, AND SUPERSONIC JETS
AGARD-448 N64-16293 08-23

EFFECT OF NOISE FROM CARRIER DECK JET ENGINE OPERATION ON HEARING, SPEECH INTERFERENCE, AND SONIC FATIGUE
AD-432086 N64-21840 15-14

COMPUTATION OF TAKEOFF TRAJECTORIES FOR COMBATING JET NOISE USING SONIC BOOM CALCULATIONS
ONERA-TP-119 N64-23500 16-04

SOURCES OF JET INTERACTION NOISE IN PROPORTIONAL FLUID AMPLIFIERS N64-25260 17-11

TEMPERATURE EFFECT ON NOISE OF BYPASS JET
NASA-TN-D-2378 N64-26451 18-27

JET FLOWS AND JET NOISE FAR-FIELD SPECTRAL AND DIRECTION PATTERNS N64-27800 19-11

EXHAUST NOZZLE NOISE STUDIES FOR PROPULSION SYSTEM OF SUPERSONIC TRANSPORT
QPR-4 N64-32465 23-27

JET NOISE GENERATION AND SUPPRESSION RELATING TO MEAN FLOW VELOCITY DISTRIBUTION IN JET WAKE
AD-446344 N64-33593 24-23

JET PROPULSION
JET ENGINE NOISE EFFECT ON AIRCRAFT PERFORMANCE
AGARD-433 N64-13942 05-23

EQUATIONS OF MOTION FOR AIRCRAFT WITH JET ENGINES
FTD-MT-63-94/1&2 N64-14378 06-04

VIBRATION PREDICTION FOR JET POWERED VEHICLES AND APPLICATION TO F-111 AIRCRAFT N64-18539 11-33

PHYSICAL PRINCIPLES OF ROCKET FLIGHT - JET PROPULSION, THRUST PRODUCTION, STABILIZATION AND CONTROL, AND GUIDED MISSILE FLIGHT
FTD-TT-63-345/1&2 N64-29275 21-27

JET STREAM
CF WIND
ESTIMATION OF TURBULENCE AND GUST COEFFICIENT OF WIND IN JET STREAMS N64-10994 02-21

SUBSONIC WIND TUNNEL TEST OF JET STREAM SPOILER TO IMPROVE SEPARATION CHARACTERISTICS OF STORE CARRIED BENEATH WING OF HIGH SPEED AIRCRAFT
DTMB-AERO-1059 N64-12057 03-02

DAILY FORECASTING OF JET STREAM POSITION
JPRS-23754 N64-17553 09-21

UTILIZING A TRANSDUCER & TENSOMETER TO MEASURE PRESSURES OF JETSTREAMS
JPRS-23920 N64-17713 09-15

TIROS I OBSERVATION OF TIME VARIATIONS IN SUBTROPICAL JET STREAM AND ASSOCIATED CLOUD PATTERNS
AFCRL-64-238 N64-18898 11-21

JETS AND WALL JETS IN UNIFORM STREAMING FLOW
REPT.-64-4 N64-23891 16-11

TRANSPORT OF ATMOSPHERIC DUST BY JET STREAM IN STRATOSPHERE AND TROPOSPHERE FRONTAL AREAS N64-24802 17-21

JET STREAM OVER USSR
RR-TR-64-2 N64-25215 17-12

JET FLOWS AND JET NOISE FAR-FIELD SPECTRAL AND DIRECTION PATTERNS N64-27800 19-11

BREAKUP OF WATER JET IN TRANSVERSE FLOW OF NITROGEN GAS
NASA-TN-D-2424 N64-28326 20-11

TROPICAL EASTERLY JET CLIMATOLOGY
FR-1 N64-29436 21-21

JET TRANSPORT
PILOTED SIMULATOR STUDY OF ALTITUDE LOSS BY JET TRANSPORT IN GO-AROUND FROM INSTRUMENT LANDING APPROACH
NASA-TN-D-2060 N64-10267 01-04

INGESTION OF GAS OR STONES INTO THRUST REVERSER OF JET TRANSPORT POWERPLANT
AGARD-415 N64-11908 03-27

JIG
CONSTRUCTION OF CRYOGENIC DEWAR INCLUDING DESIGN OF JIG TO HOLD DIODES - SEMICONDUCTOR LASER AMPLIFIER TECHNIQUES /SEMLAM/
RADC-TDR-63-553 N64-16644 08-25

STRAIN GAUGE-JIG DEVICE FOR FAST PRECISION LEVEL AND SQUARENESS DETERMINTATIONS ON MACHINED PARTS

N64-33612 24-15

JOINT
CF BONDING
CF FASTENER
FRACTURE TOUGHNESS DETERMINATION OF ADHESIVE ALUMINUM-EPOXY-ALUMINUM JOINTS
MRL-TM-241 PT. 1 N64-11803 03-33

FRACTURE TOUGHNESS AND FLAW DETECTION OF HETEROGENEOUS JOINTS N64-11804 03-33

IRRADIATION OF TANDEM-EXTRUDED JOINTS BETWEEN ZIRCALOY AND STAINLESS STEEL
DP-859 N64-12721 04-18

EVALUATION OF HIGH-STRENGTH, LIGHTWEIGHT LAMINATED PRESSURE VESSELS OF LAP-JOINT CONSTRUCTION
WAL-TR-766.2/3-4 N64-13241 04-33

HIGH STRENGTH, LIGHTWEIGHT, LAMINATED, LAP-JOINT PRESSURE VESSELS FOR ROCKET MOTOR CASES
WAL-TR-766.2/3-5 N64-14640 06-34

BERYLLIUM DEVELOPMENT - FUSION BY ELECTRON BOMBARDMENT, ELECTRON-BEAM WELDING, JOINING WITH MAGNETIC FORCE WELDER, AND HONING & LAPPING
AD-429091 N64-14964 06-18

NONDESTRUCTIVE TESTING OF BONDED METAL JOINTS
DFL-216 N64-15022 07-17

OVERLAP, CLEARANCE, WIDTH, AND SHEAR STRENGTH OF BRAZED JOINTS
A465 N64-16783 08-18

JOINING PROPERTIES OF NIOBIUM, MOLYBDENUM, AND NICKEL ALLOYS AND CERAMIC-TO-METAL JOINING
AD-431252 N64-16830 08-18

HIGH TEMPERATURE STRESS AGING ON FATIGUE STRENGTH OF RIVETED LAP JOINTS N64-16914 09-18

LAP SHEAR PROPERTIES OF LOW TEMPERATURE CURING, HIGH TEMPERATURE RESISTANT ADHESIVE AFTER EXPOSURE TO ELEVATED TEMPERATURES
A481 N64-17139 09-18

ADHESIVE BINDING THEORY - GLUED LAP JOINTS FOR JOINING STRESS LOADED COMPONENTS
N64-17548 09-33

PLASMA WELDING & METAL CLEANING BY PLASMA ARCS
RSIC-123 N64-17655 09-24

STRESSES IN MITRED PIPE JOINT DUE TO INTERNAL PRESSURE OR PURE BENDING
NAL-TN-SA-4-63 N64-18393 10-33

FATIGUE TESTS OF VARIOUS ALUMINUM ALLOY RIVETED JOINTS
RES. REPT. 11 WGLR-PAPER-34 N64-19233 11-18

STRESSES IN ROCK JOINTS AND FRACTURE DIRECTION ORIENTATIONS
BM-RI-6413 N64-19284 11-12

METAL-TO-METAL AND SANDWICH PLATE ADHESIVE ENVIRONMENTAL TESTING FOR F-111 AIRCRAFT
FGT-3048 N64-20041 13-19

THERMOCONDUCTIVITY EFFECTS ON SURFACE FLATNESS, ROUGHNESS, AND TENSION IN BOLTED JOINT BETWEEN ALUMINUM ALLOYS
RAE-TN-WE-46 N64-22371 15-13

METALLOGRAPHIC EXAMINATION OF NIOBIUM ALLOY CORE JOINTS
A741 N64-22585 15-18

METAL JOINT - COMPATABILITY OF O-RING JOINTS IN HYDROGEN PEROXIDE SYSTEM AT HIGH TEMPERATURES
A752 N64-22594 15-19

MICROSCOPIC INSPECTION OF BRAZING AND WELDING JOINTS, AND STRUCTURAL DYNAMICS OF TRAVELING WAVE TUBE
AD-601466 N64-22703 15-17

MECHANICAL SHOCK FROM FRANGIBLE JOINTS - PYROTECHNIC SHOCK N64-23153 16-33

VIBRATIONAL ENERGY LOSSES AT JOINTS IN METAL STRUCTURES N64-23162 16-33

EFFECT OF DISCONTINUITIES IN FUSION WELDED BUTT JOINTS
ADR-02-14-64.1 N64-23892 16-18

PRESSURE DROP IN FLEXIBLE METAL HOSES, BELLOWS AND GIMBAL JOINTS - ANNOTATED BIBLIOGRAPHY
NASA-CR-56540 N64-24109 16-17

STRUCTURAL DAMPING OF PERMANENT JOINTS
FTD-TT-63-755/162 N64-25443 17-33

JOINTING OF METAL TO PORCELAIN FOR PRODUCTION OF ELECTRIC EQUIPMENT N64-27046 19-17

FATIGUE TESTING OF DIFFERENT TYPES OF RIVETED JOINTS
F-47 N64-28115 20-17

METAL BRAZING PROCESSES AND PROPERTIES OF BRAZED JOINTS
JPRS-25954 N64-28514 20-18

JOINING TECHNIQUES FOR CONNECTION IN COMPLEX MICROELECTRONIC SYSTEMS N64-28673 20-09

EXPLOSIVE WELDING AND FORMING TO ACHIEVE LEAKTIGHT ROLLED JOINTS
EUR-1818.I N64-29778 21-17

ENGINE AND PUMP INLET DUCT GIMBAL JOINT SYSTEM IN S- IC STAGE OF SATURN V LAUNCH VEHICLE
NASA-TN-D-574 N64-30993 22-17

THERMAL RESISTANCE OF TURBINE BLADE ROOT JOINTS
RSIC-261 N64-32495 23-13

PLASMA TORCH CLEANING OF ALUMINUM ALLOY JOINTS BEFORE WELDING
MRI-106.04 N64-32943 24-17

VIBRATORY ENERGY DISSIPATION AT MULTI-POINT FASTENED STRUCTURAL JOINTS
FDL-TDR-64-98 N64-33910 24-33

JOULE HEATING
EFFECT OF JOULE HEATING ON HEAT TRANSMISSION AT CRITICAL POINT - HYPERSONIC SPEEDS
N64-17184 09-13

JOURNAL BEARING
THRESHOLD OF INSTABILITY OF RIGID ROTOR IN SELF-ACTING CYLINDRICAL JOURNAL BEARING
MTI-62TR13 N64-17514 09-17

GENERAL PURPOSE TEST RIG FOR ALKALI METAL LUBRICATED BEARINGS AND DESIGN AND FABRICATION OF JOURNAL BEARINGS
R-5438, PT. 1 N64-17653 09-17

LIQUID POTASSIUM JOURNAL BEARING TEST PROGRAM FOR SPUR TURBOGENERATOR
APL-TDR-64-27 N64-19643 12-17

MATERIALS FOR POTASSIUM LUBRICATED JOURNAL BEARINGS
NASA-CR-54006 N64-19943 12-17

MATERIALS FOR POTASSIUM LUBRICATED JOURNAL BEARINGS
NASA-CR-54007 N64-19944 12-17

GEOMETRY EFFECTS ON HALF FREQUENCY WHIRL IN GAS LUBRICATED JOURNAL BEARINGS
ASME PAPER 63-LUBS-2 N64-19966 12-17

STATIC AND DYNAMIC PROPERTIES OF JOURNAL BEARINGS IN LAMINAR AND TURBULENT FLOW REGIMES
NASA-CR-54034 N64-21465 14-17

DIFFERENTIAL EQUATIONS FOR PRESSURE DISTRIBUTION

AROUND HERRINGBONE-GROOVED, GAS LUBRICATED, JOURNAL BEARING
MTI-64TR15 N64-23364 16-17

GAS LUBRICATION AT HIGH TEMPERATURES AND LOW FLOW RATES - NITROGEN GAS LUBRICATED JOURNAL AND THRUST BEARINGS
APL-TDR-64-56 N64-25484 17-17

TESTING MATERIALS FOR POTASSIUM LUBRICATED JOURNAL BEARINGS
NASA-CR-54113 N64-28085 20-18

OPERATIONAL CHARACTERISTICS OF ROTOR SUPPORTED ON SELF-ACTING GAS JOURNAL BEARING
MTI-63TR50 N64-29915 21-17

NITROGEN GAS LUBRICATED JOURNAL AND THRUST BEARINGS FOR APPLICATION IN HIGH TEMPERATURES AND LOW FLOW RATES
MTI-64TR35 N64-32122 23-17

TURBULENT FLOW LUBRICATION THEORY FOR COMPOSITE TILTING-PAD JOURNAL BEARINGS
NASA-CR-54195 N64-32352 23-17

JP-4 JET FUEL
HAZARDS ENCOUNTERED BY JET AIRCRAFT FROM LIGHTNING
TR-179 N64-27854 19-04

JP-4 JET FUEL HANDLING PROCEDURES RELATING TO MICROORGANISM CONTAMINATION
SEG-TDR-64-29 N64-33745 24-17

JUNCTION
SA P-N JUNCTION
CF BARRIER LAYER
STRESS JUNCTION OF QUARTZ METAL TO PRODUCE WAVEGUIDE WINDOWS FOR ULTRAHIGH FREQUENCY DEVICES
JPRS-17936 N64-10569 01-09

LUMINESCENT JUNCTIONS IN WIDE-GAP SEMICONDUCTOR
AFCRL-63-389 N64-12312 03-25

THIN FILM VACUUM DEPOSITED JUNCTION CONDUCTORS, SEMICONDUCTORS, AND INSULATORS
NASA-CR-53102 N64-16739 08-25

JUNCTION ANALYSIS FOR INTERSECTION OF FUEL TANK WALL, DOME, AND SKIRT STRUCTURE OF ROCKET PROPELLED BOOSTER VEHICLE
RR-51 N64-28004 20-34

JUNCTION DIODE
S JUNCTION TRANSISTOR

JUPITER /PLANET/
HIGH DISPERSION SPECTROGRAMS OF JUPITER IN VISUAL AND RED SPECTRA
NASA-CR-53003 N64-13272 04-28

CONTINUOUS SPECTRUM OF VENUS AND JUPITER
N64-15156 07-05

CORRELATION BETWEEN JUPITER AND SOLAR RADIO EMISSIONS FROM OBSERVATIONS OF POLARIZED RADIATION
NASA-CR-53301 N64-17793 09-05

POLARIZATION OF 16-MC/S RADIATION FROM JUPITER
N64-18335 10-05

SPECTROSCOPY OF JUPITER, SATURN, URANUS, AND NEPTUNE - ATMOSPHERIC, THERMAL, AND KINEMATIC PROPERTIES
NASA-CR-53574 N64-18453 10-05

PHYSICAL PROPERTIES & ORIGIN OF JUPITER
N64-19804 12-05

MISSION REQUIREMENTS FOR SPACE EXPLORATION OF JUPITER
NASA-CR-53987 N64-20643 13-29

POLARIZATION OF RADIO EMISSION FROM JUPITER - VARIATIONS ATTRIBUTED TO JOVIAN IONOSPHERIC DISTURBANCES CAUSED BY SOLAR ACTIVITY
NASA-CR-53538 N64-20734 13-29

JUPITER - OBSERVATIONS AND THEORIES
NASA-RP-173 N64-21276 14-29

OBSERVATIONS OF RED SPOT ON JUPITER
N64-24998 17-05

RADAR LOCATION OF JUPITER
NASA-TT-F-8905 N64-25289 17-29

INTERPLANETARY TRAJECTORY ANALYSIS FOR MISSIONS FROM EARTH TO MERCURY, JUPITER, AND SATURN
NASA-TM-X-53046 N64-25706 17-29

ANOMALY IN BEHAVIOR OF AMMONIA BANDS IN PLANET JUPITER ABSORPTION SPECTRUM
NASA-TT-F-8927 N64-27508 19-05

TEMPERATURE AND ELECTRON DENSITY COMPUTATIONS FOR UPPER ATMOSPHERE OF JUPITER USING TWO EXTREME ATMOSPHERE MODELS
NASA-TM-X-51917 N64-28762 20-29

RADIOTELESCOPE OBSERVATIONS OF JUPITER RADIO EMISSION IN 6.5 CM WAVE BAND
NASA-TT-F-8949 N64-30842 22-28

RADIO EMISSION MEASUREMENTS OF MOON AND JUPITER RELATING TO CASSIOPEIA A
NASA-TT-F-8966 N64-31559 23-05

METEOROLOGY OF VENUS, MARS, AND JUPITER
NASA-CR-58848 N64-33165 24-29

RADIO OBSERVATION OF JUPITER
NASA-CR-59202 N64-33220 24-05

INTERFERENCE POLARIMETER MEASUREMENTS OF POSSIBLE DISPLACEMENT OF JUPITER MAGNETIC DIPOLE
AD-444166 N64-33458 24-05

JUPITER ATMOSPHERE
ANOMALOUS INCLINATION OF AMMONIA SPECTRAL ABSORPTION LINES IN PLANETARY ATMOSPHERE OF JUPITER
N64-14515 06-05

ATMOSPHERES OF MARS, VENUS, AND JUPITER
NASA-TN-D-2303 N64-25709 17-29

EVALUATION OF FLIGHTS TO STUDY JUPITER ENVIRONMENT
NASA-CR-58120 N64-26597 18-29

SPECTROSCOPIC ANALYSIS OF SOLAR, MARS, & JUPITER ATMOSPHERES
NASA-CR-59060 N64-32492 23-29

K

K-BAND
LIMITER FOR LONG LIFE K-BAND DUPLEXER
AD-423267 N64-11751 03-09

K-BAND PHOTOIONIZATION CROSS-SECTION OF GASEOUS HELIUM MEASURED BY SOFT X-RAYS
AROD-2810-13 N64-12601 04-19

LONG LIFE K-BAND DUPLEXER
AD-428787 N64-15361 07-25

K-BAND ABSORPTION MODULATOR FOR HIGH SPEED SWITCHING OR AMPLITUDE MODULATION OF MICROWAVE POWER
TR-1151 N64-19240 11-15

KU-BAND CROSSED-FIELD AMPLIFIER
SFD-32-IDR-1 N64-19806 12-09

LONG-LIFE K-BAND CRYSTAL PROTECTOR FOR TRANSMIT-RECEIVE TUBE
QPR-4 N64-25317 17-09

C- AND K-BAND SEMICONDUCTOR TRANSMIT-RECEIVE TUBE

REPT.-2 N64-25523 17-09

PRODUCTION ENGINEERING MEASURE FOR K-BAND INVERTED COAXIAL MAGNETRON
SFD-29-QPR-3 N64-25883 18-09

K-BAND CROSSED-FIELD AMPLIFIER
SFD-32-F N64-28520 20-09

LONG LIFE K-BAND DUPLEXER WITH LOW LEAKAGE POWER CHARACTERISTICS
REPT.-7 N64-33985 24-09

K-SHELL
K-SHELL INTERNAL CONVERSION COEFFICIENT OF 344-KEV E2 TRANSITION IN GADOLINIUM 152
IS-590 N64-14426 06-23

KA-BAND
LOW NOISE KA-BAND RECEIVING SYSTEM USING TUNABLE TRAVELING WAVE MASER AND RADIOMETER
REPT.-8298-1 N64-32594 23-08

KAON
ELASTIC SCATTERING OF CHARGED K-MESON PARTICLE IN HYDROGEN BUBBLE CHAMBER
UCRL-11155 N64-15400 07-23

NEUTRINOS FROM PIONS AND KAONS PRODUCED BY PROTONS HITTING BERYLLIUM TARGET N64-15504 07-23

RADIATIVE DECAY OF KAON TO PRODUCE TWO PIONS AND GAMMA RADIATION
UR-875-30 N64-19487 12-23

BOSON POLE APPROXIMATION FOR EXPLAINING THREE PION DECAY MODES OF KAONS AND FOR NEUTRAL KAON-2 MINUS NEUTRAL KAON-1 MASS DIFFERENCE
UR-875-29 N64-19906 12-23

DECAY OF VECTOR MESONS & KAONS TO YIELD PIONS AND MASS DIFFERENCE OF TWO KAONS
UR-875-35 N64-25995 18-23

PHENOMENOLOGICAL MODEL APPLIED TO KAON-SIGMA HYPERON PHOTOPRODUCTION
TH-63 N64-28932 20-23

KARHUNEN-LOEVE EXPANSION
S ORTHOGONAL FUNCTION
S RANDOM PROCESS

KARMAN THEORY
USE OF KARMAN THEORY FOR CALCULATING TURBULENT BOUNDARY LAYER ON FLAT PLATE
FTD-TT-62-1768/1&2 N64-23097 16-11

MATHEMATICAL MODEL OF TURBULENT FLOW NEAR BOUNDARY LAYER - VARIATIONS IN VALUES OF KARMAN CONSTANT N64-29532 21-11

KERNAL FUNCTION
ONE-DIMENSIONAL PLASMA-CONDUCTIVITY KERNEL FUNCTION IN SPACE-FREQUENCY AND SPACE-TIME DOMAINS
SEL-63-088 N64-19169 11-24

COMPARISON OF KERNEL FUNCTION AND STRIP METHODS OF SUBSONIC FLUTTER CALCULATIONS FOR SWEPT AND UNSWEPT WINGS
NASA-TN-D-2297 N64-20285 13-33

KERNEL FUNCTION METHOD FOR SOLUTION OF BOUNDARY VALUE PROBLEMS
CS-4 N64-20512 13-20

INTEGRAL EQUATIONS WITH DIFFERENT KERNEL FUNCTIONS ON FINITE INTERVALS
RM-3942-PR N64-31816 23-20

KEROSENE
SA PETROLEUM
CF FUEL
REAL GAS EFFECT ON KEROSENE FUELED HYPERSONIC RAMJET PERFORMANCE N64-26330 18-27

KERR EFFECT
S MAGNETIC FIELD
S MAGNETIZATION
S POLARIZED LIGHT
S REFLECTION

KETONE
THERMAL DECOMPOSITION OF CYCLOHEXADIENEONE PEROXIDE PRODUCING RADICALS N64-12495 04-07

PHOTOLYSIS AND PYROLYSIS OF 4-METHYL-4-METHOXY-2-PENTANONE
TDR-269/4240-201-1 N64-12581 04-07

ALKYL NITRATE NITRATION FOR PREPARATION OF ALPHA-MONONITRO-KETONES - SOLID SMOKELESS PROPELLANT
RR-25 N64-12868 04-07

PHOTOCHEMISTRY OF SOME ORGANIC SULFUR COMPOUNDS AND KETONES N64-15492 07-07

VISCOSITIES OF METHYL-ETHYL KETONE SOLUTIONS OF HIGH MOLECULAR WEIGHT POLYISOBUTYL METHACRYLATE
PA-TR-3113 N64-18605 11-19

CHEMICAL REACTION OF HYDROXYLAMINE WITH ISONITROACETOPHENONE
RSIC-167 N64-21585 15-07

KETONE PRODUCTION AS HUMAN REACTION TO BIOLOGICAL STRESSES - COLD, EXERCISE, AND STARVATION
APR-2 N64-32144 23-16

KEYING
DIVERSITY RECEPTION OF NONFADING FREQUENCY SHIFT KEYING
RADC-TDR-63-475 N64-17302 09-08

KIDNEY
SA RENAL FUNCTION
SA URINE
REPEATED POSITIVE ACCELERATION OF LOW INTENSITY & LONG DURATION - ANATOMICAL STUDY OF DOG KIDNEY N64-13462 05-16

MECHANISMS OF INTRARENAL HEMODYNAMIC CHANGES FOLLOWING ACUTE ARTERIAL OCCLUSION
CARI-63-22 N64-16574 08-16

UREA USED FOR TREATMENT OF IMPAIRED EXCRETORY FUNCTION OF KIDNEYS IN BURN INJURY
JPRS-25928 N64-27324 19-16

KINEMATICS
SA MICROWAVE REFLECTOMETRY
CF DYNAMICS
CF KINETICS
KINEMATICS OF PHOTOPRODUCTION IN HYDROGEN OF COMPOUND SYSTEM
LNF-63/40 N64-13047 04-23

KINEMATICS OF ELEMENTARY PARTICLES AS FUNCTIONS OF KINETIC ENERGY
UCRL-2426, VOL. 1 /REV./ N64-16283 08-23

COMPUTER PROGRAMS FOR INELASTIC KINEMATICS AND DENSITY OF PARTICLES ON PLANE
CERN-64-8 N64-18205 10-23

SEPARATION OF MAIN SEQUENCE STARS INTO TWO GROUPS BY KINEMATIC CHARACTERISTICS N64-19345 12-05

RELATIONSHIP BETWEEN GEOMETRICAL & KINEMATIC ELEMENTS OF PARTICLE MOVING IN ELLIPTICAL ORBIT N64-23554 16-23

KINEMATIC RECTIFICATION IN DAMPED SINGLE AXIS GYROSCOPES
ARC-REM-3358 N64-25496 17-15

IBM COMPUTER PROGRAM FOR CALCULATING KINEMATICS OF TWO- AND THREE-BODY PROBLEMS
LNF-64/23 N64-25671 17-23

ENGINE AND PUMP INLET DUCT GIMBAL JOINT SYSTEM IN S- IC STAGE OF SATURN V LAUNCH VEHICLE
NASA-TN-D-574 N64-30993 22-17

ROLE OF INELASTIC COLLISIONS IN KINEMATICS OF ELASTIC SCATTERING WITH LARGE MOMENTUM TRANSFER
CERN-64-38 N64-31628 23-23

KINETIC ENERGY
ENERGY TRANSFER EFFICIENCY OF RESONANT DISCHARGE CIRCUIT, AND ASSESSMENT OF KINETIC ENERGY OF GAS
N64-10144 01-27

KINETIC ENERGY & MASS DISTRIBUTION FOR NUCLEAR FISSION AT MODERATE EXCITATION ENERGY
UCRL-11006 N64-11305 02-23

CONVERSION OF KINETIC ENERGY OF PLASMA STREAM INTO ELECTRICAL ENERGY BY ISOTHERMAL RETARDATION IN TRANSVERSE MAGNETIC FIELD N64-11712 03-24

KINEMATICS OF ELEMENTARY PARTICLES AS FUNCTIONS OF KINETIC ENERGY
UCRL-2426, VOL. 1 /REV./ N64-16283 08-23

KINETIC ENERGY IN TURBULENT AIR CURRENTS
E-T-G-63-28 N64-16510 08-11

EQUATIONS OF ORBITAL MECHANICS SHOWING INTER-RELATION AMONG SATELLITE ALTITUDE, SPEED, PERIOD, AND KINETIC AND POTENTIAL ENERGIES
SSD-TDR-64-20 N64-18028 10-29

AERODYNAMIC FORCE AND KINETIC ENERGY OF PARTICLES IMPINGING ON BODY IN SUPERSONIC FLIGHT
FTD-TT-63-361/1&2&4 N64-19217 11-11

CONVERSION OF ALPHA PARTICLE KINETIC ENERGY INTO ELECTRICITY N64-19848 12-23

CHARGED PARTICLE MOTION IN MAGNETIC DIPOLE FIELD WITH KINETIC ENERGY LOSS CONSIDERED
N64-22031 15-24

KINETIC ENERGY OF SYSTEMS OF SOLID LINKED BODIES - SELF-MANEUVERING UNITS N64-23068 16-23

TRANSFORMATION OF POTENTIAL TO KINETIC ENERGY WITHIN STORM OR CYCLONE N64-24462 17-21

ENERGY PARTITIONING IN HIGH VELOCITY IMPACT IN LEAD AND COPPER
UU-14 N64-25345 17-23

ENERGY PARTITIONING IN HIGH VELOCITY-IMPACT CRATERING IN LEAD N64-25346 17-23

TWO-DIMENSIONAL SPECTRAL ANALYSIS OF KINETIC ENERGY OF FLOW FIELDS
AFCRL-64-248 N64-27453 19-23

KINETIC ENERGY AND TIME-OF-FLIGHT MEASUREMENTS OF FISSION FRAGMENTS
ORNL-3692 N64-32283 23-23

KINETIC EQUATION
SA PARTIAL DIFFERENTIAL EQUATION
KINETIC EQUATIONS FOR SOLUTION OF DISLOCATION POSITIONS IN METALS UNDER STRESS
N64-15019 07-25

KINETIC EQUATIONS DESCRIBING THERMAL EXPLOSION OF SELF-HEATING COMPOUNDS DUE TO DECOMPOSITION
NOLTR-63-251 N64-17437 09-26

HIGH VELOCITY RATIO NEAR FREE MOLECULAR FLOW PAST NARROW STRIP - KINETIC EQUATIONS
R63SD81 N64-18076 10-02

KINETIC EQUATIONS OF RADIATIVE TRANSFER OF PLASMA IN MAGNETIC FIELD
MATT-243 N64-18342 10-24

SOLUTION OF KINETIC EQUATIONS FOR PLASMA INCLUDING RADIATION
MATT-195 N64-18352 10-24

SNAPKIN COMPUTER PROGRAM FOR SNAP REACTOR KINETIC EQUATIONS
NAA-SR-9190 N64-19712 12-20

KINETIC EQUATION OF CLASSICAL BOLTZMANN GASES
PUBL.-64-2 N64-21561 15-23

STATISTICAL PLASMA THEORY - KINETIC EQUATION FOR PLASMA
LP-29 N64-21689 15-24

INTEGRAL-MOMENT METHOD OF SOLVING BOLTZMANN KINETIC EQUATION
FTD-TT-63-1033/1&2 N64-21966 15-11

KINETIC EQUATIONS OF IONIZED PLASMA WITH AND WITHOUT EXTERNAL MAGNETIC FIELD
TR-1 N64-22898 16-24

KINETIC EQUATIONS FOR PLASMA TURBULENCE AND CATALYTIC ACTIVITY OF CHELATE POLYMERS
FTD-TT-62-1795/1&2&4 N64-22997 16-24

KINETIC EQUATIONS FOR TURBULENCE IN HOMOGENEOUS PLASMA N64-22998 16-24

KINETIC EQUATIONS FOR PLASMA ELECTRONS AND PHOTONS RADIATED IN STRONG MAGNETIC FIELD
N64-23788 16-24

EVALUATION OF REDUCED GROUP DECAY CONSTANTS AND ABUNDANCES USED IN REACTOR NEUTRONIC KINETIC EQUATIONS BY LEAST-SQUARES TECHNIQUE - URANIUM-235 FAST FISSION GROUPS
LA-3082 N64-26766 18-23

DIGITAL COMPUTER PROGRAM FOR SOLVING REACTOR KINETICS EQUATIONS
NAA-SR-9943 N64-28668 20-23

EQUATIONS FOR PREDICTING KINETIC TEMPERATURE OF AEROSPACE ENVIRONMENT FROM 100 TO 60,000 KILOMETERS ABOVE EARTH SURFACE
NASA-TM-X-53104 N64-31550 23-12

RELATIVISTIC INTEGRAL KINETIC EQUATIONS
N64-31750 23-11

MULTIPLE TIME SCALE APPROACH TO DERIVATION OF QUANTUM MECHANICAL KINETIC EQUATIONS
MATT-274 N64-32085 23-23

KINETIC HEATING
RADIATION PATTERNS AND KINETIC HEATING STUDIES OF MISSILE ANTENNAS N64-18208 10-09

KINETIC HEATING OF SANDWICH PLATE WITH HONEYCOMB CORE
RSIC-169 N64-21580 15-13

KINETIC THEORY
SA DIFFUSION
CF TRANSPORT PROPERTY
THERMAL RELAXATION IN ONE-SPECIES, ONE-DIMENSIONAL PLASMA - THEORY & EXPERIMENT
MATT-213 N64-11313 02-24

KINETIC EQUATION FOR INTERACTING SHOCK WAVES IN NONEQUILIBRIUM RAREFIED PLASMA
FTD-MT-63-96/1&2&3&4 N64-14380 06-24

KINETIC EQUATIONS FOR SOLUTION OF DISLOCATION POSITIONS IN METALS UNDER STRESS
N64-15019 07-25

KINETIC THEORY OF ION TRANSPORT ACROSS BIOLOGICAL CELL SURFACES
NADC-MA-6325 N64-15051 07-16

KINETIC THEORY OF DISLOCATIONS N64-16123 08-25

KINETIC THEORY OF WEAKLY COUPLED GASES - WEAK COUPLING EXPANSION TO HIGHER ORDERS - GAS-GAS REACTION
MATT-238 N64-16944 09-24

KINETIC THEORY OF STABLE PLASMAS - NON-MARKOVIAN EFFECT
IPPJ-24 N64-20524 13-24

SIMPLIFIED KINETIC THEORY OF COUETTE AND RAYLEIGH FLOW
REPT.-9813-6001-RU000 N64-20652 13-11

KINETIC THEORY OF FREE MOLECULAR FLOW OF NEUTRAL GASES AND MECHANICS OF HIGHLY RAREFIED PLASMAS
UTIAS-18 N64-24864 17-24

KINETIC THEORY OF SPHERICAL ELECTROSTATIC PROBE IN SLIGHTLY IONIZED PLASMA

AD-441726 N64-25727 17-23

STELLARATOR RESEARCH, PLASMA KINETIC THEORY AND STABILITY, AND RELATED PROGRAMS IN PHYSICS AND ENGINEERING
MATT-Q-21 N64-26682 18-24

KINETIC THEORY OF GASEOUS THERMODYNAMICS
N64-28179 20-13

KINETIC THEORY OF CLASSICAL ELECTRON GAS IN POSITIVE BACKGROUND - EQUILIBRIUM THEORY
N64-29662 21-24

KINETICS
SA CHEMICAL KINETICS
SA KINEMATICS
SA KINETIC ENERGY
CF DYNAMICS
CF MECHANICS /GEN/
CRYSTAL GROWTH AND KINETICS OF FORMATION
FLIGHT TEST DATA ON LONGITUDINAL, LATERAL, AND DIRECTIONAL STABILITY AND CONTROL DERIVATIVES OF X-15 AIRCRAFT
JPRS-18257 N64-10638 01-25

DIFFUSION COUPLE BONDING TECHNIQUE FOR OBTAINING DATA ON DIFFUSION KINETICS OF ALUMINUM-NICKEL-URANIUM SYSTEM
NAA-SR-8387 N64-11911 03-25

MASS & ENERGY TRANSFER, FLOW CHARACTERISTICS, KINETICS OF VARIOUS SYSTEMS, AND STATE EQUATIONS FOR HELIUM AND OXYGEN
JPRS-22321 N64-11965 03-01

HEATING VELOCITY INFLUENCE ON KINETICS OF CALCINING MINERAL SUBSTANCES N64-11976 03-13

KINETICS OF DRYING PROCESSES WHICH INVOLVE LOWERING EVAPORATION SURFACE OF LUMPY, MOIST MATERIALS N64-11979 03-13

CHEMICAL KINETIC BEHAVIOR OF GAS-PHASE INDUCTION ZONE & EXPLOSION ZONE IN SOLID PROPELLANT ROCKET MOTORS
FTCE/18/10/63 N64-13205 04-26

THRESHOLD RATE OF HYDROKINETIC RATE SENSOR WITH ELECTROSTATIC SUPPORT SYSTEM
GR-1425 N64-13773 05-15

DRIFT TUBE OF MASS SPECTROMETER USED AS REACTION CHAMBER FOR KINETIC STUDIES OF ION DISSOCIATION
AFCRL-63-926 N64-15495 07-07

REACTION KINETICS OF OXIDATION OF URANIUM IV BY THALLIUM III IN AQUEOUS PERCHLORIC ACID SOLUTIONS
SC-4972/RR/ N64-16697 08-07

KINETIC & THERMODYNAMIC PROPERTIES OF REFRACTORY METAL BORIDES & NITRIDES
UCRL-7559 N64-17073 09-19

REACTION KINETICS OF IRON CYANIDE/FERRIC WITH BOROHYDRIDE IN AQUEOUS SOLUTION
UCRL-11252 N64-17979 10-07

TOPOLOGICAL PROPERTIES OF COMPARTMENT SYSTEMS USED FOR TRACER AND DRUG KINETICS N64-18498 10-20

KINETICS OF AUSTENITE GRAIN GROWTH IN ELECTROSLAG WELDING OF AUSTENITIC STEELS
JPRS-24278 N64-18800 11-18

KINETICS OF HIGH TEMPERATURE OXIDATION OF MOLYBDENUM BY DISSOCIATED OXYGEN
TP-84 N64-19085 11-18

STEADY STATE AND KINETIC BEHAVIOR OF SYSTEM OF LOOSELY COUPLED REACTOR CORES
LANS-2967 N64-19908 12-23

KINETICS AND AERODYNAMICS OF OXIDATION OF METALS BY PARTIALLY DISSOCIATED OXYGEN
AEROCHEM-TN-61 N64-20352 13-18

THERMOLUMINESCENT KINETICS OF ALPHA IRRADIATED ALKALI HALIDES
NASA-RP-177 N64-21303 14-25

DIGITAL PROGRAM FOR EVALUATION OF THERMAL, KINETIC, AND HYDROGEN DIFFUSION RESPONSES IN CORE OF SNAP 2/10A REACTOR
NAA-SR-84.4 N64-21790 15-23

KINETICS OF DISRUPTING SUPERCONDUCTIVITY BY VARIABLE FIELD
FTD-TT-62-1716/1&2 N64-22147 15-25

KINETICS OF THERMAL & PHOTOCHEMICAL DECOMPOSITION OF SOME ALKALI METAL AZIDES
AD-432035 N64-22207 15-19

KINETICS OF SURFACE DIFFUSION CONTROLLED WHISKER GROWTH
TR-4 N64-22297 15-18

KINETIC AND GEOMETRIC CHARACTERISTICS OF MARTENSITE CONVERSION IN IRON-NICKEL MANGANIC ALLOY
FTD-TT-62-1760/1&2 N64-22398 15-17

KINETICS OF CHARGE TRANSFER PROCESSES IN DRIFT TUBE OF TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-64-383 N64-22612 15-23

EQUILIBRIUM AND KINETIC MORPHOLOGY OF SOLID STRUCTURE SURFACES
AROD-2781-8 N64-22908 16-25

KINETICS AND THERMODYNAMICS OF CHLORINE-HYDROGEN MIXTURE COMBUSTION
FTD-TT-62-1688/1&2 N64-23476 16-26

KINETICS OF THERMAL REACTION OF CHLORINE-HYDROGEN MIXTURE - COMBUSTION N64-23477 16-26

KINETICS OF OZONE SYNTHESIS IN GAS STREAM AT REDUCED PRESSURE N64-23663 16-07

EFFECT OF STATOKINETIC STIMULI ON HUMAN BODY FUNCTIONS N64-23760 16-16

EFFECT OF ELASTIC INTERACTION ON KINETICS OF CRYSTAL CLUSTER GROWTH
AROD-3870-1 N64-23951 16-18

KINETICS OF JOINT SYSTEMS AND STATE OF MOTION & EQUILIBRIUM IN MAN N64-24341 17-16

KINETICS OF HYDROGEN BROMIDE AND METHYL BROMIDE FLAME INHIBITION
SR-6-3 N64-25183 17-07

SPACE SCIENCE - SOLAR RADIATION, FLAME REACTION KINETICS, STRATOSPHERIC PLANETARY OBSERVATORY, INFORMATION SYSTEMS, AND SPACE BIOLOGY
N64-25186 17-28

KINETICS OF THERMAL DECOMPOSITION OF SOLID CARBONYL COMPOUNDS OF METALS
FTD-TT-64-220/1&2&4 N64-25468 17-19

KINETICS OF GRAPHITIZATION OF PETROLEUM COKE
JPL-TR-32-570 N64-25683 17-19

POLARIZATION THEORY FOR POROUS DIFFUSION ELECTRODE SYSTEM - KINETICS OF REDOX REACTION
AFCRL-64-536 N64-26307 18-07

KINETICS OF REACTIONS IN HYDROGEN /CARBON MONOXIDE/ OXYGEN SYSTEM
R64SD37 N64-27567 19-07

KINETICS OF ROCKET EXHAUST GASES - FLAME IMAGE AND FLAME TEMPERATURE DETERMINATION
REPT.-103-9 N64-29675 21-26

DETERMINATION OF KINETICS OF DIFFUSION AND OSMOSIS USING RADIOACTIVE ISOTOPES N64-30395 22-16

KINETICS OF HYDROGEN ELECTRODE WITH ROTATING DISK
TR-19 N64-30531 22-07

PHYSIOLOGICAL VALUE OF RADIOISOTOPE - KINETIC BEHAVIOR OF TRACERS
BNL-857/T-341/ N64-30623 22-16

METHODOLOGY OF TOTAL KINETICS OF COMBUSTION OF GASES
FTD-MT-63-238 N64-32396 23-26

EQUILIBRIA AND KINETICS OF PHOSGENE REACTION WITH THORIUM OXIDE
IS-917 N64-32414 23-07

BASIC MAGNETOHYDRODYNAMICS AND KINETICS OF PLASMAS
FTD-TT-62-508/1&2 N64-32653 23-24

MOLECULAR KINETICS AND FLUX LEVELS IN SPACE SIMULATION CABINS
AEDC-TDR-64-186 N64-33113 24-10

ISOTHERMAL RECRYSTALLIZATION KINETICS OF ELECTRON BEAM ZONE REFINED IRON
ARL-64-131 N64-33927 24-18

KIWI B-1B REACTOR
AUTOMATIC CONTROL SYSTEM FOR KIWI B-1B REACTOR - MATHEMATICAL MODELS DERIVED AND BUILT FROM ANALOG COMPUTER COMPONENTS
LAMS-2966 N64-11476 03-20

KIWI B-4 REACTOR
KIWI B-4 & ROVER-TYPE REACTORS - NUCLEAR SAFETY PROBLEMS & TEST PROGRAMS N64-14564 06-27

KIWI B-4 AND ROVER-TYPE REACTORS TRANSIENT ANALYSES N64-14565 06-23

KIWI ROCKET REACTOR
REVISION OF ROVER PROGRAM, RIFT PROJECT, AND NERVA & KIWI REACTORS N64-12064 03-30

KLEBSIELLA
EXPOSURE OF MICE TO LOW TEMPERATURES FOR SUSCEPTIBILITY TESTS TO KLEBSIELLA PNEUMONIAE
AAL-TDR-63-9 N64-18874 11-16

KLEIN-DUNHAM POTENTIAL
S PARTICLE MOTION
S QUANTUM THEORY
S SPIN

KLEIN-GORDON EQUATION
GENERAL PERTURBATION EXPANSION FOR KLEIN-GORDON EQUATION WITH SMALL NONLINEAR TERM
NASA-CR-53502 N64-19986 12-20

KLYSTRON
CF AMPLIFIER
CF ELECTRON TUBE
DIGITAL COMPUTER PROGRAM FOR NONLINEAR PHENOMENON IN TRAVELING WAVE DEVICES AND KLYSTRONS
RADC-TDR-63-398 N64-12651 04-23

KLYSTRON AMPLIFIER CIRCUIT ANALYSIS
FTD-MT-63-91/1&2&3&4 N64-13965 05-09

TWO-DIMENSIONAL LARGE-SIGNAL ANALYSIS FOR KLYSTRONS & TRAVELING WAVE TUBES
RADC-TDR-63-519 N64-14496 06-09

L-BAND SUPER-POWER KLYSTRON USING HIGH PERVEANCE HOLLOW ELECTRON BEAM
QPR-9 N64-14634 06-09

EFFICIENCY INCREASE OF TWO-CAVITY KLYSTRON BY RADIOFREQUENCY POWER CIRCULATION INTO OUTPUT GAP N64-16135 08-09

PARAMETRIC INFLUENCE ON OUTPUT POWER OF TWO-GAP KLYSTRON N64-16139 08-09

PSI MODE STUDY OF DOUBLE REENTRANT KLYSTRON CAVITIES N64-16144 08-09

IBM 7090 COMPUTER PROGRAM FOR MULTICAVITY KLYSTRON STUDIES
AD-420687 N64-17664 09-20

OSCILLATION IN TRAVELING WAVE TUBES - KLYSTRONS & ELECTRON GUNS
RADC-TDR-64-58 N64-18651 11-09

KLYSTRON AMPLIFIER - TESTING OF ELECTRON GUN PULSED BEAM TESTERS
RADC-TDR-63-361 N64-19118 11-09

HIGH POWER X-BAND KLYSTRON AMPLIFIER
RADC-TDR-63-524 N64-19186 11-09

LOW AVERAGE POWER PULSED TUBE CONSTRUCTION AND TEST FOR HIGH POWER X-BAND KLYSTRON DEVELOPMENT PROGRAM
RADC-TDR-64-77 N64-21318 14-09

LARGE SIGNAL PHENOMENA IN TRAVELING-WAVE TUBE AND KLYSTON
RADC-TDR-64-108 N64-22277 15-08

FORTRAN COMPUTER PROGRAMS FOR ANALYSIS OF ELECTRON GUNS, KLYSTRONS, AND TRAVELING WAVE TUBES
RADC-TDR-64-119 N64-23956 16-23

ELECTROMAGNETIC COMPATABILITY AND REDUCTION OF SPURIOUS OUTPUT SIGNALS IN HIGH POWER KLYSTRONS N64-24838 17-09

ENGINEERING OF ACCELERATOR STRUCTURES - KLYSTRON, AND MICROWAVE ELECTRONIC DEVICES
SLAC-30 N64-26792 18-18

TWO DIMENSIONAL ANALYSIS FOR LARGE-SIGNAL PHENOMENA IN TRAVELING WAVE TUBES AND KLYSTRONS
RADC-TDR-64-231 N64-26921 18-09

VARIABLE-DRIFT BIASED-GAP KLYSTRON AS HIGH EFFICIENCY AMPLIFIER
ESD-TDR-64-44 N64-27376 19-09

PREDICTION OF ELECTRONIC CONDUCTANCE AND OVERALL GAIN OF MULTICAVITY KLYSTRON
ESD-TDR-64-33 N64-28282 20-09

HIGH POWER X-BAND KLYSTRON AMPLIFIER
RADC-TDR-64-257 N64-29982 21-09

DEPRESSED COLLECTORS FOR HIGH POWER KLYSTRONS - ELECTRON BEAM TUBES
ESD-TDR-64-339 N64-30648 22-09

MAGNETRON INJECTION AND ELECTROSTATIC GUNS FOR HIGH PERVEANCE KLYSTRON
REPT.-11 N64-31116 22-09

VARACTOR FREQUENCY MODULATION OF SUPPORTED DRIFT TUBE KLYSTRON
GE/EE/63-20 N64-31919 23-09

HIGH POWER X-BAND GENERATOR - KLYSTRON AMPLIFIER
RADC-TDR-64-451 N64-33548 24-09

KNUDSEN CELL
VAPOR PRESSURES OF SEVERAL AMINO ACIDS DETERMINED BY KNUDSEN CELL EFFUSION METHOD
IS-790 N64-15852 07-07

KNUDSEN FLOW
SOLUTIONS FOR KNUDSEN FLOW FLUX DISTRIBUTIONS WITH PARTICLES ENTERING CIRCULAR TUBE THROUGH SMALL AXIAL ORIFICE - ROCKET THRUSTOR APPLICATION
NASA-TN-D-2115 N64-14520 06-11

MONTE CARLO COMPUTER SOLUTIONS OF KNUDSEN AND NEAR-KNUDSEN FLOW THROUGH WIDE, PARALLEL, AND SKEWED FLAT PLATES
NASA-TM-X-53112 N64-32644 23-11

KROOK EQUATION
CF HYDRODYNAMICS
SHOCK-WAVE PROFILE COMPUTATION USING KROOK COLLISION MODEL EQUATION IN ITERATION SCHEME STARTING FROM NAVIER-STOKES SOLUTION
NASA-CR-53019 N64-13268 04-11

SINGULAR INTEGRAL EQUATION THEORY APPLIED TO LINEARIZED PROBLEM IN COUETTE FLOW DERIVED FROM KROOK STATISTICAL MODEL FOR INTERMOLECULAR COLLISIONS
RM-4027-PR N64-26498 18-11

KRYPTON
CF RARE GAS
XENON AND KRYPTON AS CARRIER GASES FOR HIGHLY

SENSITIVE DETECTION SYSTEM FOR GAS CHROMATOGRAPHY
N64-12945 04-07

ATOMIZATION OF STAINLESS STEEL AND TANTALUM BY IONS OF DEUTERIUM AND KRYPTON
FTD-MT-63-6/1&2&3&4 N64-14373 06-23

FISSION PRODUCT TRANSPORT PROCESSES OF KRYPTON IN REFRACTORY METAL FUEL SYSTEMS N64-17000 09-23

ABSORPTION CROSS SECTIONS OF HELIUM, NEON, ARGON, KRYPTON, AND XENON FROM PHOTOIONIZATION THRESHOLDS TO 280 ANGSTROM UNITS
GCA-TR-64-3-N N64-17671 09-23

ATOMIC SCATTERING FACTOR OF NEON, ARGON, KRYPTON, AND XENON
AMRA-TR-63-15 N64-18571 11-23

OXYGEN FLUORIDE PREPARATION - CHEMICAL REACTION OF OXYGEN FLUORIDES WITH KRYPTON AND XENON
AD-435838 N64-18626 11-07

PERTURBATION OF SPECTRAL FREQUENCIES BY SOLID MATRICES - ABSORPTION OF KRYPTON AT LIQUID HYDROGEN TEMPERATURE
QTSR-2 N64-25039 17-23

SPECTRAL ANALYSIS OF PURE KRYPTON AND KRYPTON IN ARGON AT LIQUID HYDROGEN TEMPERATURES
E-450-P N64-26657 18-23

PERTURBATION OF ABSORPTION SPECTRA OF CRYSTALLINE ARGON AND KRYPTON IN VACUUM ULTRAVIOLET BY INTERSTITIAL ATOMS OF XENON
QTSR-1 N64-27196 19-23

SUBSTANTIATION OF METHOD FOR OBTAINING INTERATOMIC POTENTIAL ENERGY PARAMETERS - POTASSIUM-KRYPTON INTERACTION N64-27554 19-23

VELOCITY DEPENDENCE OF TOTAL CROSS SECTION FOR METASTABLE HELIUM SCATTERING BY HELIUM, ARGON, AND KRYPTON N64-27557 19-23

RESONANCES IN ELASTIC SCATTERING CROSS SECTION OF ELECTRONS ON HELIUM, NEON, KRYPTON, AND XENON
TR-24 N64-27792 19-23

KRYPTON 85 AS UNIVERSAL TRACER ATOM
NYO-2457-3 N64-28671 20-07

MOSSBAUER APPARATUS FOR MAGNETIC STUDIES OF FERRIC OXIDE, FERROUS OXIDE, KRYPTON, AND CLATHRATES
AD-602465 N64-30043 21-25

CONDUCTIVE ADHESIVES AND RADIOACTIVE ELEMENT RESEARCH - PARTICLE SOURCES, ISOTOPE SEPARATION, AND KRYPTON-85 COUNTING
RLM-1203 N64-32827 24-07

KRYPTONATED METALS FOR STUDY OF HIGH TEMPERATURE OXIDATION KINETICS OF REFRACTORY METALS
AD-450355 N64-33972 24-18

L-BAND
X RAY SPECTROSCOPY OF L BANDS OF NIOBIUM NITRIDE, NIOBIUM CARBIDE, NIOBIUM DIBORIDE
N64-10671 02-18

ELECTRON TUBE DEVELOPMENT FOR L-BAND CROSSED FIELD AMPLIFIERS
RADC-TDR-63-492 N64-13673 05-08

TUNABLE L-BAND TUNNEL DIODE OSCILLATOR
QPR-5 N64-14293 06-09

L-BAND SUPER-POWER KLYSTRON USING HIGH PERVEANCE HOLLOW ELECTRON BEAM
QPR-9 N64-14634 06-09

EXPERIMENTAL DESCRIPTION OF L-BAND SLOW-WAVE RING-ROD RESONATOR
EE-577 N64-16143 08-09

DESCRIPTION AND CIRCUIT DIAGRAMS OF ELECTRONIC COMPONENTS OF L BAND RADIOMETER
ACF-AR-1679 N64-20104 13-15

SOLID STATE DEVICE - FREQUENCY CONVERTER FOR L-, S-, C-, AND X-BANDS
AD-432394 N64-21396 14-08

CRYSTAL FREQUENCY CONVERTER UNITS FOR L-, S-, C-, AND X-BANDS
IDR-9 N64-24808 17-08

PERFORMANCE AND LIFE TESTS OF DRIVER TUBES FOR L-BAND CROSSED FIELD AMPLIFIER CHAIN DEVELOPMENT
RADC-TDR-64-236 N64-25305 17-09

BROADBAND MICROWAVE POWER LIMITERS - SCALING, BIAS CRYSTALS, DIODE MOUNTS, AND LOW POWER PERFORMANCE OF L BAND-S BAND UNIT
QPR-3 N64-25527 17-09

POLARIZATION CONTROL SYSTEM DESIGNED FOR L-BAND RADAR - SOLAR RADAR OBSERVATIONS
ESD-TDR-64-331 N64-25726 17-09

L BAND MICROWAVE AMPLIFIER FOR USE IN PHASED ARRAY RADAR SYSTEMS - FOCUSING OF TRAVELING WAVE TUBE
MTPR-22 N64-26643 18-08

FREQUENCY CONVERTER UNITS FOR L-BAND, S-BAND, C-BAND, AND X-BAND
REPT.-11 N64-27413 19-09

RECEIVER, TRANSMITTER, ANTENNA FEED, AND REFLECTOR FOR RADAR TRACKING STATION OPERATING IN L BAND
ESD-TDR-64-53 N64-29418 21-08

RECEIVER, TRANSMITTER, ANTENNA FEED, AND REFLECTOR FOR RADAR TRACKING STATION OPERATING IN L BAND - ILLUSTRATIONS
ESD-TDR-64-54 N64-29619 21-08

CORRECTIVE & PREVENTIVE MAINTENANCE PROCEDURES FOR MILLSTONE L-BAND MONOPULSE RADAR ANTENNA
ESD-TDR-63-585 N64-29620 21-08

FREQUENCY CONVERTERS FOR L-BAND, C-BAND, S-BAND, X-BAND, & KA-BAND
AD-602517 N64-29657 21-09

CROSS SECTION MEASUREMENTS OF ECHO II SATELLITE BY MILLSTONE L-BAND RADAR
ESD-TDR-64-43 N64-30037 21-08

FREQUENCY CONVERTER UNITS FOR C-BAND, L-BAND, S-BAND, AND X-BAND
IDR-3 N64-31181 22-09

L-BAND GALLIUM ARSENIDE TUNNEL DIODE OSCILLATOR
REPT.-4 N64-31691 23-09

OPERATION PRINCIPLES AND ADVANTAGES OF L-BAND FORWARD-WAVE AMPLIFIER OF PULSED TYPE RADIO FREQUENCY
PT-470 N64-31892 23-09

SEMICONDUCTOR PHASE SHIFTING DEVICES IN L- AND S-BANDS
AD-601003 N64-33003 24-09

L-BAND TRAVELING WAVE TUBE FOR APPLICATION IN PHASED ARRAY RADAR SYSTEMS
AD-600312 N64-33050 24-09

LABORATORY
SA ASTRONOMICAL OBSERVATORY
SA TEST FACILITY
COMMUNICATION CHANNEL BETWEEN THE LABORATORY, INDUSTRY, AND THE COMMUNITY TO SOLVE SOCIOECONOMIC PROBLEMS N64-11517 03-03

SATURN S- IV/S- IVB STAGE AS MANNED SPACE LABORATORY
SM-43257 N64-27767 19-32

FUEL CELL-SOLAR CELL COMBINATION UNIT AS AUXILIARY POWER SOURCE FOR MANNED SPACE LABORATORY
ASME PAPER-63-AHGT-71 N64-31017 22-06

APOLLO PROJECT LUNAR LOGISTICS MOBILE LABORATORY
NASA-CR-61016 N64-33876 24-10

LABORATORY APPARATUS
LAYOUT AND INSTRUMENTATION IN EUROPEAN NUCLEAR PHYSICS LABORATORIES
TID-18275 N64-10320 01-10

CONSTRUCTION AND CALIBRATION OF APPARATUS FOR STUDY OF LIQUID OXIDIZERS CONTAINING FLUORINE
AD-429849 N64-16849 08-26

DESIGN AND APPLICATION OF ACOUSTICS LABORATORY
N64-28042 20-10

LABORATORY APPARATUS FOR VISUAL SIGNALLING INVESTIGATION OF MOTOR REACTION EFFECTIVENESS
N64-30323 22-14

LABORATORY DEVICE FOR CLOSED AIR LOOP ANALYSIS OF CARBON DIOXIDE REMOVAL AGENTS
FDL-TDR-64-67, PT. I N64-31927 23-16

LABORATORY APPARATUS TO STUDY REDUCTION OF IGNEOUS ROCK WITH CARBON, HYDROGEN, AND METHANE - UTILIZATION OF LUNAR RESOURCES
NASA-CR-59197 N64-33161 24-07

LABORATORY APPARATUS TO STUDY CATALYTIC REDUCTION OF CARBON MONOXIDE WITH HYDROGEN - UTILIZATION OF LUNAR RAW MATERIALS TO PRODUCE OXYGEN
NASA-CR-58956 N64-33172 24-10

LABYRINTH
LOSS OF LABYRINTHINE FUNCTION WHEN EXPOSED TO CENTRIPETAL FORCE - MOTION SICKNESS
N64-22432 15-14

HUMAN EYE REFLEX RESPONSE TO VERTICAL ACCELERATION AND RELATIONSHIP TO LABYRINTH - ELEVATOR ILLUSION
FPRC-1213 N64-25846 18-16

MOTION SICKNESS SYMPTOMOLOGY OF LABYRINTHINE DEFECTIVE AND NORMAL HUMAN SUBJECTS DURING ZERO GRAVITY MANEUVERS
AMRL-TDR-64-47 N64-28562 20-16

LACTATE
TRANSFER OF STRONTIUM 90 THROUGH MILK IN LACTATING MONKEYS AND RATS
UR-635 N64-10616 01-16

LACTIC ACID
MEASUREMENT OF POST-MORTEM LACTIC ACID CONCENTRATIONS IN ASSESSING ANTE-MORTEM HYPOXIA
N64-14586 06-16

CHANGES IN ARTERIAL LACTIC ACID OF DOGS AT HIGH ALTITUDE
SAM-TDR-64-2 N64-18886 11-16

LAG
DEVICE FOR MEASURING LAG COEFFICIENT OF SURFACE WAVE FROM MOVING LOAD N64-13566 05-23

CONTROL SYSTEM LAGS AND MAN-MACHINE SYSTEM PERFORMANCE - BIBLIOGRAPHY
NASA-CR-83 N64-25172 17-16

LAGRANGE EQUATION
LAGRANGE EQUATION OF DISLOCATION MOTION IN EXTERNAL STRESS FIELD OF ELASTIC MEDIUM
JPRS-17473 N64-10680 02-23

GRAVITY GRADIENT EXCITATION OF ROTATING CABLE-COUNTERWEIGHT ORBITING SPACE STATION - LAGRANGE EQUATIONS OF MOTION
TDR-169/3530-20/-TN-1 N64-11180 02-30

DISSIMILAR SATELLITE APPENDAGES DURING ERECTION - LAGRANGE FORMULATION APPLIED TO ARIEL I SATELLITE
NASA-TM-X-938 N64-12957 04-32

TAYLOR AND LAGRANGE THEOREMS AND DIFFERENTIAL OPERATORS IN N-DIMENSIONS
SLAC-22 N64-13366 04-20

NUMERICAL ANALYSIS OF LIBRATIONAL MOTION OF PARTICLE AROUND LAGRANGIAN TRIANGULAR POINT IN SEMIRESTRICTED THREE-BODY PROBLEM
N64-15272 07-20

TURBULENT DIFFUSION IN TOWING CHANNEL AND LAGRANGIAN AUTOCORRELATION FUNCTIONS
ANL-6794 N64-15609 07-11

LAGRANGE VARIATION EQUATION TO OBTAIN EQUATIONS OF MOTION AND BOUNDARY CONDITION FOR ORTHOTROPIC SHELL N64-23693 16-33

TWO-COMPONENT ANOMALOUS SPINOR EQUATIONS FOR PARTICLES OF NONVANISHING MASS DERIVED FROM COVARIANT LAGRANGIAN PRINCIPLE
ARL-64-163 N64-30950 22-23

TRANSFORMATION OF EULERIAN FORM OF NAVIER STOKES

EQUATION INTO LINEAR LAGRANGIAN MODEL OF TURBULENT HEAT CONDUCTION AND CONVECTION
GEOPHYS. SCI. LAB. REPT.-63-8 N64-31242 22-13

LAGUERRE FUNCTION
BESSEL FUNCTION CALCULATION USING LAGUERRE POLYNOMIAL EXPANSION
AMRA-TR-64-06 N64-22960 16-20

ABSCISSAS AND COEFFICIENTS FOR GENERALIZED GAUSS-LAGUERRE QUADRATURE FORMULA USING ZERO ORDINATE
NASA-TM-X-53099 N64-29179 21-20

LAMBERT SURFACE
LAMBERTS THEOREM APPLIED TO SOLUTION OF INTERPLANETARY TRANSFER PROBLEMS
NASA-CR-53084 N64-16749 08-29

LAMINA
S LAMINAR BOUNDARY LAYER
S LAMINAR HEAT TRANSFER
S LAMINAR JET
S LAYER

LAMINAR BOUNDARY LAYER
APPROXIMATION THEORY FOR COMPRESSIBLE LAMINAR BOUNDARY LAYER WITH HEAT TRANSFER
DVL-281 N64-11952 03-11

LAMINAR MAGNETOHYDRODYNAMIC BOUNDARY LAYER AND HEAT TRANSFER IN FLOW AROUND CIRCULAR CYLINDER
NASA-CR-52978 N64-12024 03-23

SOLUTIONS FOR DEVELOPMENT OF LAMINAR BOUNDARY LAYER ON FLAT PLATE BY METHOD OF LOCAL SIMILARITY
TDR-169/3153-01/TN-1 N64-12037 03-11

PERTURBATION SOLUTIONS AND ENERGY EQUATION IN LAMINAR BOUNDARY LAYER THEORY - MATHEMATICS
PIBAL-752 N64-13120 04-11

NONEQUILIBRIUM, NONSIMILAR SOLUTIONS OF LAMINAR BOUNDARY LAYER EQUATIONS
RAD-TM-63-58 N64-13601 05-11

VELOCITY PROFILE OF LAMINAR BOUNDARY LAYER ON ROTATING CYLINDER
CAL-AM-1762-S-4 N64-13960 05-03

SLIP EFFECTS ON COMPRESSIBLE LAMINAR BOUNDARY LAYER OVER SLENDER BODIES OF REVOLUTION WITH ZERO PRESSURE GRADIENT
NOLTR-63-85 N64-14086 05-02

EFFECT OF LAMINAR BOUNDARY LAYER DEVELOPMENT IN SHOCK TUBE ON SPECTRUM-LINE REVERSAL TEMPERATURE MEASUREMENTS
NPL-AERO-1018 N64-14237 06-23

TRANSITION FROM LAMINAR TO TURBULENT BOUNDARY LAYER IN FLAT STREAMS ALONG PLATES
FTD-MT-63-84/1626364 N64-14376 06-02

APPROXIMATION THEORY OF LAMINAR AND TURBULENT BOUNDARY LAYER COMPRESSIBLE FLOW
AID-T-63-110 N64-15246 07-11

APPROXIMATION THEORY OF LAMINAR AND TURBULENT BOUNDARY LAYERS
DVL-84 N64-15247 07-11

FINITE RATE PLASMA GENERATION IN LAMINAR AIR BOUNDARY LAYER OF SLENDER REENTRY BODY
N64-15252 07-24

NONEQUILIBRIUM EFFECT ON HYPERSONIC LAMINAR BOUNDARY LAYER
AVCO-EVERETT RES. REPT.-171 N64-15524 07-11

RADIATING LAMINAR BOUNDARY LAYER FLOW OF GREY GAS OVER FLAT PLATES
PIBAL-812 N64-15765 07-24

INSENSITIVITY OF HEAT TRANSFER TO INCLUSION OF FIRST ORDER SLIP BOUNDARY CONDITIONS FOR SIMILAR LAMINAR HYPERSONIC BOUNDARY LAYERS
P-2780 N64-15848 07-13

SKIN FRICTION AND STABILITY OF LAMINAR BOUNDARY LAYER ON FLAT PLATE WITH MASS TRANSFER
RM-3485-PR N64-16043 07-02

CALCULATION OF LAMINAR BOUNDARY LAYER IN AXI-SYMMETRIC FLOW BY FINITE DIFFERENCE METHOD
NOLTR-63-261 N64-16070 07-11

MOMENTUM-INTEGRAL SOLUTIONS FOR LAMINAR BOUNDARY LAYER PRODUCED BY ROTATING FLOW OF VISCOUS FLUID OVER FINITE STATIONARY DISK
ATN-63/9227/-3 N64-16836 08-11

INJECTION OF FOREIGN GAS INTO LAMINAR AIR BOUNDARY LAYER - HEAT AND MASS TRANSFER PROBLEMS SOLVED BY SIMPLE CALCULATION METHOD OF SIMILARITY EQUATIONS
NASA-TM-X-54519 N64-17605 09-11

FREE FLIGHT INVESTIGATION OF MASS TRANSFER COOLING IN LAMINAR BOUNDARY LAYER AROUND BLUNT CONE AT HYPERSONIC SPEEDS
NASA-TN-D-2197 N64-17746 09-13

LAMINAR BOUNDARY LAYER DISPLACEMENT EFFECTS ON HEMISPHERES IN HELIUM FLOW
NASA-TN-D-2193 N64-17813 09-02

STABILITY OF LAMINAR BOUNDARY LAYER FOR MAXWELLIAN FLUIDS
R63SD102 N64-18467 10-11

LAMINAR BOUNDARY LAYER ON POROUS SURFACE
FTD-MT-63-168 N64-18689 11-11

LAMINAR BOUNDARY LAYERS WITH INJECTION OF ANOTHER MEDIUM IN GASES
RAE-TRANS-1055 N64-19089 11-11

CHEMICALLY REACTING LAMINAR AIR BOUNDARY LAYER EQUATIONS FOR CONE SHAPED REENTRY BODIES AT VARIED FLIGHT CONDITIONS AND WALL TEMPERATURES
R64SD14 N64-19135 11-11

COMPRESSIBLE LAMINAR BOUNDARY LAYER IN PRESSURE GRADIENT WITH SUCTION
PIBAL-807 N64-19141 11-11

SOLUTIONS OF INCOMPRESSIBLE LAMINAR BOUNDARY LAYER EQUATIONS N64-19160 11-11

SOLUTION OF PRANDTL EQUATIONS FOR INCOMPRESSIBLE LAMINAR BOUNDARY LAYERS N64-19162 11-11

FINITE DIFFERENCE METHOD SOLUTION OF NONSIMILAR, NONEQUILIBRIUM AIR, LAMINAR AND TURBULENT BOUNDARY LAYER FLOW
TECH. REPT.-422 N64-19553 12-11

COMPUTER PROGRAM FOR FINITE DIFFERENCE METHOD SOLUTION OF NONSIMILAR, NONEQUILIBRIUM AIR, LAMINAR AND TURBULENT BOUNDARY LAYER FLOWS
GASL-TR-422 N64-19554 12-11

LAMINAR BOUNDARY LAYER IN HYDROGEN-AIR MIXTURES WITH FINITE RATE CHEMISTRY
NASA-CR-53633 N64-19625 12-11

HIGH SPEED TWO-DIMENSIONAL REACTING LAMINAR BOUNDARY LAYER WITH COUPLED PRESSURE INTERACTION
NASA-CR-53631 N64-19989 12-11

LAMINAR BOUNDARY LAYER TRANSITION ON TEN-DEGREE CONE IN HYPERSONIC FLOW
REPT.-64-RL-/3622C/ N64-21057 14-11

EFFECTS OF SURFACE CURVATURE ON LAMINAR BOUNDARY LAYER FLOW
NAL-TR-48 N64-21206 14-11

SIMILAR SOLUTIONS FOR HYPERSONIC LAMINAR BOUNDARY LAYER NEAR PLANE OF SYMMETRY
PIBAL-825 N64-21293 14-11

HYDRODYNAMIC STABILITY OF TWO-DIMENSIONAL UNSTEADY INCOMPRESSIBLE LAMINAR BOUNDARY LAYER
AD-600102 N64-21363 14-11

APPROXIMATION METHOD OF COMPUTING THREE-DIMENSIONAL LAMINAR BOUNDARY LAYER FOR BLUNT BODY IN HYPERSONIC FLOW

FTD-TT-63-1136/1 N64-21663 15-11

EFFECT OF TRANSVERSE CURVATURE IN COMPRESSIBLE LAMINAR BOUNDARY LAYER FLOW OVER SLENDER BODIES OF REVOLUTION
NOLTR-63-68 N64-21719 15-11

LAMINAR BOUNDARY LAYER WITH HYDROGEN INJECTION - MULTICOMPONENT DIFFUSION AND TRANSPORT PROPERTIES
ARL-64-40 N64-22300 15-11

EQUATIONS FOR THREE-DIMENSIONAL LAMINAR BOUNDARY LAYER ON CURVILINEAR SURFACE
FTD-TT-62-1723/1&2 N64-22631 15-11

LAMINAR BOUNDARY LAYER WITH CHEMICAL REACTION FRONT ON POROUS PLATE N64-23678 16-11

NONEQUILIBRIUM SODIUM IONIZATION IN LAMINAR BOUNDARY LAYER
BSD-TDR-64-50 N64-24798 17-11

HYPERSONIC HEAT TRANSFER IN AIR LAMINAR BOUNDARY LAYER N64-26156 18-13

THEORY OF LAMINAR BOUNDARY LAYERS
FTD-TT-63-749/1&2 N64-26309 18-11

APPLICATION OF LAMINAR BOUNDARY LAYER SIMILAR SOLUTIONS TO STAGNATION POINT AND LAMINAR BOUNDARY LAYER HEAT TRANSFER
REPT.-6721-7506-KU-000 N64-27687 19-02

IBM 7094 COMPUTER PROGRAM FOR INVISCID FLOW FIELD ANALYSIS
NASA-CR-56369 N64-27912 20-11

GENERAL SOLUTION OF COMPRESSIBLE LAMINAR BOUNDARY LAYER IN STAGNATION REGION OF BLUNT BODIES IN AXISYMMETRIC FLOW
NASA-TN-D-2234 N64-28057 20-11

LAMINAR BOUNDARY LAYER ON ROTATING SPHERE IN FLUID AT REST
NASA-TN-D-2491 N64-29338 21-11

SOLUTION OF ORR-SOMERFELD EQUATION FOR LAMINAR BOUNDARY LAYER FLOW OVER COMPLIANT BOUNDARIES
ASRL-TR-116-1 N64-29502 21-11

GROWTH OF LAMINAR BOUNDARY LAYER WITH ZERO PRESSURE GRADIENT
TFH-8151-008 N64-29750 21-11

CHEMICAL REACTIONS IN LAMINAR BOUNDARY LAYERS IN HYPERSONIC FLOW
PIBAL-835 N64-29963 21-11

BEHAVIOR OF LAMINAR AND UNSTABLY STRATIFIED BOUNDARY LAYERS TOWARDS THREE DIMENSIONAL PERTURBATIONS
AFOSR-64-1280 N64-30054 21-11

HEAT TRANSFER MEASUREMENT FOR BINARY LAMINAR BOUNDARY LAYERS WITH HIGH SECOND GAS INJECTION RATES
NASA-TN-D-2473 N64-30097 21-13

INTERSECTION OF REAL GAS SHOCK WAVES WITH WEAK VORTEX SHEETS, AND LAMINAR BOUNDARY LAYER SOLUTION WITH REAL GASES
NASA-CR-56413 N64-30503 22-11

BOUNDARY LAYER LAMINARIZATION EFFECT ON HEAT FLUX OF ROCKET NOZZLE THROAT REGION
C-910100-11 N64-31318 22-11

CALCULATION OF LAMINAR BOUNDARY LAYER BY METHOD OF DISNENBERNENT N64-31752 23-11

LAMINAR BOUNDARY LAYER FLOW ON NOZZLE WALL TO REDUCE HEAT TRANSFER
C-910100-10 N64-32245 23-17

LAMINARIZATION OF NOZZLE WALL BOUNDARY LAYERS TO REDUCE HEAT FLUX
C-910100-9 N64-32390 23-13

FINITE DIFFERENCE METHOD SOLUTION OF NONSIMILAR, NONEQUILIBRIUM AIR, LAMINAR AND TURBULENT BOUNDARY LAYER FLOWS - INPUT DATA MANUAL - DEFENDER PROJECT
TR-422 N64-33656 24-11

LAMINAR FLOW
HIGH PRECISION, HIGH RESOLUTION TRACER PHOTOGRAPHY FOR LOW NOISE, STEADY LAMINAR AIR FLOW MICROSCOPIC FLUCTUATIONS AT WALL BOUNDARY
TECH. REPT.-17 N64-11301 02-02

HEAT TRANSFER IN LAMINAR FLOW WITH INDUCED REVERSE MOVING LAYER OF FLUID
AFOSR-5330 N64-11746 03-13

LAPLACE TRANSFORM FOR SUDDEN START, RELAXATION, & HARMONIC PRESSURE OSCILLATION OF LAMINAR FLUID FLOW IN PIPES
E-T-G-G-63-16 N64-13110 04-11

IONIZATION EFFECT ON LAMINAR FLOW OF DENSE GAS IN CHANNEL
RTD-TDR-63-4009 N64-13764 05-23

GENERAL LAMINAR FLOW PAST SEMI-INFINITE PLATE
NWL-1887 N64-14343 06-02

STEADY-STATE ANALYSIS OF LAMINAR INSTABILITY PROBLEM DUE TO HEATING PARA-HYDROGEN IN LONG, SLENDER TUBES
NASA-TN-D-2084 N64-14939 06-11

BASE BLEED FOR LAMINAR BASE FLOW
EOS-RN-10 N64-15370 07-11

GENERAL BOUNDARY LAYER EQUATIONS FOR COMPRESSIBLE LAMINAR FLOW INCLUDING EQUILIBRIUM DISSOCIATION N64-15642 07-11

EXTENDED BOUNDARY LAYER THEORY FOR LAMINAR FLOW OF INCOMPRESSIBLE FLUIDS N64-15646 07-11

LOW & HIGH PRANDTL NUMBER APPROACHES FOR HEAT TRANSFER IN LAMINAR FLOW OF INCOMPRESSIBLE FLUIDS WITH CONSTANT MATERIAL PROPERTIES
NASA-TM-X-54568 N64-15887 07-11

COMPUTER SOLUTION OF BOUNDARY LAYER EQUATIONS FOR COMPRESSIBLE LAMINAR FLOW
DOUGLAS PAPER-1657 N64-16506 08-11

LAMINAR HYPERSONIC WAKE LENGTH DURING BALLISTIC REENTRY OF BLUNT OBJECTS N64-16570 08-30

RECOVERY FACTOR AND HEAT TRANSFER DISTRIBUTIONS ON SET OF CONE MODELS - LAMINAR HYPERSONIC CAVITY FLOWS
ARL-63-73, PT. 2 N64-17329 09-02

SOLUTION TO HYDRODYNAMIC PROBLEMS ON LAMINAR AND TURBULENT FLOW - FLUID MECHANICS
AD-430718 N64-17472 09-11

GROWTH OF REGULAR DISTURBANCES IN AXISYMMETRIC LAMINAR AND TURBULENT WAKES OF SPHERICAL AND CYLINDRICAL BODIES
RAD-TM-64-3 N64-17488 09-02

EXACT SOLUTION TO NONLINEAR EQUATIONS OF LAMINAR FLOW FOR VISCOUS INCOMPRESSIBLE FLUIDS IN ENTRANCE REGION OF ANNULAR PIPES
MRC-477 N64-18378 10-11

HEAT TRANSFER COEFFICIENTS IN NOZZLE WITH HIGH SPEED LAMINAR FLOW
AEDC-TDR-64-61 N64-18606 11-13

LAMINAR SUPERSONIC FLOW HEAT TRANSFER RATES IN SHOCK WAVE GENERATOR
TAE-25 N64-19390 12-13

LAMINAR FLOW OF VISCOUS FLUID
FTD-TT-63-817/1&2&4 N64-19808 12-11

INCOMPRESSIBLE LAMINAR AXISYMMETRIC WAKE BEHIND SLENDER CYLINDRICAL BODY IN AXIAL FLOW
AS-64-5 N64-20083 13-11

APPROXIMATION OF EIGENVALUES FOR HEAT TRANSFER IN LAMINAR TUBE SLIP FLOW

NASA-RP-161 N64-21273 14-13

MIXING OF LAMINAR AND TURBULENT AXISYMMETRIC COMPRESSIBLE FLOWS
ARL-63-108 N64-21432 14-11

STATIC AND DYNAMIC PROPERTIES OF JOURNAL BEARINGS IN LAMINAR AND TURBULENT FLOW REGIMES
NASA-CR-54034 N64-21465 14-17

SURFACE FLEXIBILITY EFFECT ON STABILITY OF LAMINAR FLOW
ARC-CP-602 N64-21699 15-11

DELAYING TRANSITION FROM LAMINAR TO TURBULENT FLOW - BIBLIOGRAPHY
AD-427728 N64-22332 15-11

AIRCRAFT LAMINAR FLOW CONTROL TECHNIQUES
ASD-TDR-63-689 N64-24072 16-11

STANDARD TESTS FOR LAMINAR FLOW DEVICES
SC-TM-64-637 N64-25291 17-11

BASE PRESSURE AND AXIAL DISTRIBUTIONS OF DENSITY AND TEMPERATURE IN LAMINAR HYPERSONIC NEAR WAKES
R64SD35 N64-25532 17-11

LAMINAR FLOW CONTROL IN X-21A AIRCRAFT
NOR-61-142 N64-25616 17-11

IN-FLIGHT NOISE MEASUREMENTS PERFORMED ON X-21A LAMINAR FLOW AIRCRAFT
NOR-64-81 N64-25697 17-11

LAMINAR FLOW CONTROL
NOR-61-141 N64-25822 17-02

FLIGHT TESTS OF X-21A AIRCRAFT TO DEMONSTRATE FEASIBILITY OF LAMINAR FLOW CONTROL
NOR-61-134 N64-26978 19-04

LAMINAR AND TURBULENT HYDROGEN HEAT TRANSFER AND FRICTION COEFFICIENTS OVER PARALLEL TUNGSTEN PLATES 5000 DEG R
NASA TN D-2435 N64-27123 19-13

PULSATING MAGNETOHYDRODYNAMIC FLOW SUPERPOSED ON STEADY LAMINAR FLOW OF INCOMPRESSIBLE VISCOUS FLUID IN ANNULAR CHANNEL
MRC-379 N64-29030 21-24

LAMINAR FLOW SOLUTION FOR CONSTANT VISCOSITY AND HEAT CONDUCTIVITY - KATABATIC FLOW THEORY
N64-29536 21-21

LAMINAR FREE CONVECTION FROM HORIZONTAL CYLINDER WITH WALL SURFACE HEAT FLUX
D1-82-0282 N64-31326 22-13

TRANSITION FROM LAMINAR FLOW TO TURBULENT FLOW IN BOUNDARY LAYER OF WIND TUNNEL MODEL AT HYPERSONIC SPEED
REPT.-64SD855 N64-32141 23-11

LAMINAR BASE FLOW BEHIND CONICAL REENTRY BODIES
TN-R-110 N64-32176 23-11

LOW DRAG BOUNDARY LAYER CONTROL AND LAMINAR FLOW CONTROL FOR OPTIMUM SUPERSONIC FLIGHT
NOR-64-142 N64-32656 23-11

HEAT TRANSFER FOR LAMINAR SLIP FLOW OF RAREFIED GAS IN CHANNEL OR TUBE WITH UNIFORM WALL TEMPERATURE
NASA-TN-D-2213 N64-33081 24-13

SUPERSONIC WIND TUNNEL TEST TO DETERMINE EFFECTIVENESS OF BOUNDARY LAYER SUCTION FOR LAMINAR FLOW CONTROL ON SWEPT WING
AEDC-TDR-64-221 N64-33951 24-03

LAMINAR MIXING
PRESSURE BEHIND WEDGE IN SUPERSONIC FLOW WITH LAMINAR MIXING N64-28487 20-11

LAMINAR WAKE
HYPERSONIC LAMINAR AND TURBULENT VISCOUS WAKE AT CHEMICAL EQUILIBRIUM
R63SD01 N64-17368 09-11

INFRARED RADIATION MEASUREMENT OF LAMINAR WAKE OF HYPERSONIC NYLON SPHERE
BSD-TDR-64-32 N64-22309 15-13

AIR IONIZATION IN HYPERSONIC LAMINAR WAKE OF SHARP CONES
BSD-TDR-64-61 N64-25245 17-03

LAMINATE
LAMINATION CRACKING IN METAL POWDER PRESSINGS AS RESULT OF ELASTIC STRETCHING OF DIE AND ELASTIC AFTEREFFECTS IN SPECIMEN N64-11482 03-17

GLASS CLOTH-PHENOLIC LAMINATES FOR INSULATION OF CORROSION RESISTANT STEEL RUB-STRIP FACE PLATES
FGT-2735, ADD. 1 N64-15683 07-19

STRENGTH OF REINFORCED PLASTIC LAMINATES AT ELEVATED TEMPERATURES
RTD-TDR-63-4091 N64-16470 08-19

PHENYL SILANE PREIMPREGNATED GLASS FABRIC LAMINATES TESTED FOR HIGH TEMPERATURE STRUCTURAL PROPERTIES
ERR-FW-126 N64-18922 11-19

HYDROBURST TESTING OF LIGHTWEIGHT PRESSURE VESSELS MADE OF LAMINATED MARAGING STEEL
N64-24368 17-33

MECHANICAL PROPERTIES OF ECHO II SATELLITE LAMINATES
NASA-TN-D-2367 N64-26543 18-18

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - LAMINATES
RSIC-150, VOL. I, APPEND. F N64-27485 19-19

GEOMETRY, FORMING METHODS, SINTERING, AND SPECIMEN TESTING OF MACROLAMINATE PARTICLE
IR-1 N64-28638 20-17

METAL LAMINATES WITH HIGH VIBRATION DAMPING FOR FAIRWATER AND SUPERSTRUCTURE PLATES ON SUBMARINES
REPT.-94-53 N64-28810 20-17

CREEP AND FATIGUE LIFE IN FILAMENT WOUND LAMINATES
AD-602495 N64-30061 21-19

ELECTRON RADIATION EFFECT ON PHYSICAL PROPERTIES OF ECHO II LAMINATE
NASA-TN-D-2207 N64-32836 24-28

LAMINATED MATERIAL
PENETRATION OF HYPERVELOCITY PROJECTILES INTO COMPOSITE LAMINATES N64-13550 05-33

HIGH STRENGTH, LIGHTWEIGHT, LAMINATED, LAP-JOINT PRESSURE VESSELS FOR ROCKET MOTOR CASES
WAL-TR-766.2/3-5 N64-14640 06-34

ELECTRIC FIELD IONIZATION INTENSITY OF LAMINATED DIELECTRIC MADE OF IMPREGNATED PAPER
FTD-TT-62-1263/1&264 N64-16393 08-23

TENSILE LAP SHEAR STRENGTHS OF METAL-TO-METAL AND METAL-TO-LAMINATE CONFIGURATIONS
A482 N64-17140 09-18

FATIGUE TEST OF LAMINATED REINFORCED PLASTIC MATERIALS UNDER AXIAL LOAD
ASD-TDR-63-768 N64-17845 10-33

EVALUATING METHODS FOR UNWOVEN GLASS-FIBER REINFORCED PLASTIC LAMINATES IN FLEXURE
FPL-024 N64-19565 12-34

THERMAL EXPANSION DIFFERENCES BETWEEN MATRIX AND REINFORCEMENT ON STRENGTH RETENTION OF GLASS REINFORCED ALUMINUM PHOSPHATE LAMINATES
IER-4 N64-20179 13-13

AGE FACTOR IN FLEXURE STRENGTH OF LAMINATED EPOXY AND POLYESTER MATERIALS
NOLTR-64-1 N64-23979 16-19

STRUCTURAL BEHAVIOR OF LAMINATED ANISOTROPIC PLATES - CROSS-PLY & ANGLE-PLY COMPOSITES
NASA-CR-56343 N64-24121 16-33

MECHANICAL PROPERTIES OF PLASTIC LAMINATES AT CRYOGENIC TEMPERATURES
ASD-TDR-62-794 PT. II N64-24212 16-19

MATERIALS FOR LAMINATED PHOTOELASTIC MODELS
RAE-TRANS-1064 N64-26545 18-19

MONTE CARLO METHOD FOR ANALYSIS OF GAMMA RADIATION TRANSPORT FROM DISTRIBUTED SOURCES IN SHIELDING OF LAMINATED MATERIAL
FOA-4-A-4354-411 N64-28689 20-20

TENSILE AND COMPRESSIVE PROPERTIES OF PLASTIC LAMINATES REINFORCED WITH UNWOVEN GLASS FIBERS
FPL-052 N64-30686 22-19

STRENGTH OF LAMINATED MATERIALS EVALUATED BY PHOTOELASTIC TESTING
RAE-TRANS-1070 N64-31019 22-17

INFRARED BOND DEFECT DETECTION SYSTEM FOR LAMINATES OF DISSIMILAR MATERIALS
AMRA-TR-63-14 N64-32984 24-17

LAMP
CF LIGHT
DYNAMIC MATHEMATICAL MODEL FOR EVALUATING AIRBORNE EXTERIOR LAMPS N64-23159 16-06

SPECTRA OF GALLIUM-THALLIUM IODIDE FLASH LAMP
AD-437572 N64-24231 16-09

LANDAU DAMPING
LANDAU THEORY OF ENERGY STRAGGLING IN SERIES OF ABSORBING LAYERS
AFCRL-63-558 N64-13771 04-23

PLASMA OSCILLATION - LANDAU DAMPING AND RESONANT ENERGY ABSORPTION
NASA-CR-53177 N64-17580 09-23

NONLINEAR LANDAU DAMPING OF OSCILLATIONS IN BOUNDED PLASMA N64-25735 17-24

LANDAU DAMPING AND FINITE-LENGTH EFFECTS IN UNIVERSAL PLASMA INSTABILITIES
MATT-275 N64-26456 18-24

LANDING
SA LUNAR LANDING
SA SOFT LANDING
SA TAKEOFF AND LANDING
CF TAKEOFF
LONGITUDINAL DECELERATION EFFECT ON LOADS AND MOTIONS OF SEAPLANE LANDING IN WAVES
R-924 N64-12040 03-04

ENTRY RANGE AND LANDING LIGHTING RESTRICTIONS ON RETURN TRAJECTORIES FROM MOON FOR APOLLO-TYPE MISSION
NASA-TN-D-2127 N64-12689 04-29

REENTRY VEHICLE MODEL WITH PASSIVE LANDING SYSTEM TO ALLEVIATE LANDING-IMPACT LOADS
NASA-TN-D-2035 N64-12877 04-30

AIRCRAFT LANDING LOADS AND TERRAIN ROUGHNESS EFFECTS ON PERFORMANCE
TRECOM-TR-63-68 N64-15596 07-04

HIGH RESOLUTION SYSTEM FOR LUNAR AND PLANETARY LANDING SITE SELECTION N64-16185 08-08

SOLID-STATE DOPPLER RADAR FOR SPACE RENDEZVOUS AND PLANETARY LANDINGS N64-16188 08-08

LANDING IMPACT STRESS ON ANIMALS IMMERSED IN WATER N64-23763 16-16

GUIDANCE REQUIREMENTS FOR UNMANNED PLANETARY LANDING
AIAA PAPER-64-645 N64-27672 19-29

SPACECRAFT ON-BOARD OPTICAL GUIDANCE SYSTEM FOR PLANETARY APPROACH AND LANDING
NASA-CR-58236 N64-29004 20-22

NONPLANAR LANDINGS AND RELATION TO LUNAR LANDINGS SYSTEMS DESIGN N64-29634 21-10

LANDING IMPACT AND MANEUVERING LOADS ON SIMULATED SUPERSONIC TRANSPORT CONFIGURATIONS
BNJV-A-03 N64-31285 22-10

LANDING AID
SA APPROACH AND LANDING INSTRUMENT
SA CONTROL TOWER
CF AIR TRAFFIC CONTROL
CF AIRPORT
CF RUNWAY
LOW-SUBSONIC FLIGHT CHARACTERISTICS OF MODEL SUPERSONIC AIRCRAFT CONFIGURATION WITH PARAWING AS A LANDING AID
NASA-TN-D-2031 N64-10399 01-04

LIGHTED CROSSBARS AND RUNWAY DISTANCE MARKERS
RD-64-27 N64-19033 11-10

LANDING DEVICE
AIRCRAFT LANDING GUIDANCE IN AZIMUTH, ELEVATION, AND RANGE USING GROUND-COUPLED RADARS
RAE-TRANS-1071 N64-32050 23-22

LANDING GEAR
SA AIRCRAFT TIRE
CF AIRFRAME
CF FAIRING
LIGHTING EQUIPMENT FOR AIRCRAFT LANDING GEAR N64-12154 03-10

LANDING-GEAR ASSEMBLY RELIABILITY GOAL AND APPORTIONMENT TO SUBASSEMBLY LEVELS
NASA-CR-55216 N64-13179 04-06

RATIONAL METHOD FOR PREDICTION OF GEAR LOADS DURING LANDING OF V/STOL AIRCRAFT
ASD-TDR-62-555, VOL. 1 N64-14485 06-04

IMPACT PREDICTION OF SYMMETRICAL AND ASYMMETRICAL LANDING OF AIR AND SPACE VEHICLES WITH SPIKE, ARTICULATED, & CANTILEVERED GEAR
ASD-TDR-62-555, VOL. 2 N64-14486 06-04

LUNAR LANDING CHARACTERISTICS OF SCALE DYNAMIC MODEL OF LANDING MODULE WITH MULTIPLE LEG LANDING GEAR SYSTEMS
NASA-TN-D-2027 N64-14981 06-29

AXIAL COMPRESSION TEST OF EFFECT OF HIGH VELOCITY AND HIGH TEMPERATURE AIR ON WHEEL BUMP FAIRING MATERIALS
A487 N64-17145 09-02

STRESS CORROSION & EFFECTS OF BANDING - LITERATURE SURVEY & TESTS FOR B-58 AIRCRAFT LANDING GEAR
FGT-2957, PT. 2 N64-20039 13-18

LANDING GEAR SYSTEMS FOR WIDELY DIFFERENT DESIGN SPECIFICATION LIMITS OF LUNAR LANDING SYSTEM N64-29628 21-06

UNSYMMETRICAL LANDING GEAR SYSTEM FOR LUNAR LANDING VEHICLE N64-29630 21-06

SKID LANDING GEAR DEVELOPMENT FOR X-20 AIRCRAFT
SEG-TDR-64-17 N64-30935 22-17

EVALUATION OF AIRCRAFT LAUNCH CATAPULTS AND ARRESTED LANDING GEAR ON ALUMINUM RUNWAY MAT
TAC-TR-63-71 N64-31021 22-10

LANDING MODULE
S LUNAR LANDING MODULE
S MARS EXCURSION MODULE /MEM/

LANDING SIMULATION
LUNAR LANDING CHARACTERISTICS OF SCALE DYNAMIC MODEL OF LANDING MODULE WITH MULTIPLE LEG LANDING GEAR SYSTEMS
NASA-TN-D-2027 N64-14981 06-29

PILOTED SIMULATOR STUDY OF HANDLING QUALITIES OF SUPERSONIC TRANSPORTS IN LANDING MANEUVERS
NASA-TN-D-2251 N64-17993 10-14

SIMULATION OF LANDING DYNAMICS IN LUNAR AND PLANETARY GRAVITATIONAL FIELDS AND PERFORMANCE OF PILOT MODEL SIMULATOR
NASA-TN-D-2415 N64-32406 23-10

LANDING SITE
TRAJECTORY CALCULATION, REENTRY CONDITIONS, LANDING SITE, AND INJECTION CONDITIONS FOR RETURN-TO-EARTH FROM LUNAR ORBIT
NASA-TM-X-51082 N64-10103 01-22

RUSSIAN ASTRONAUT LANDING SITE AND GRAVITATION STUDIES
JPRS-19490 N64-11351 02-01

LANDING SITE COVERAGE FOR ORBITAL LIFTING REENTRY VEHICLES
SSD-TDR-63-97 N64-29312 21-29

LANDING SPEED
FLIGHT MEASUREMENTS OF INFLUENCE OF SPEED STABILITY ON LANDING APPROACH
AGARD-420 N64-11991 03-04

LANDING SYSTEM
SA AUTOMATIC LANDING SYSTEM
SA INSTRUMENT LANDING SYSTEM
REENTRY VEHICLE MODEL WITH PASSIVE LANDING SYSTEM TO ALLEVIATE LANDING-IMPACT LOADS
NASA-TN-D-2035 N64-12877 04-30

TOUCHDOWN DYNAMICS STUDY FOR LUNAR LANDING PHASE OF SURVEYOR PROJECT
NASA-CR-52080 N64-13014 04-29

PILOT ACCEPTANCE FACTORS FOR ALL-WEATHER LANDING SYSTEM
NASA-CR-34 N64-18951 11-10

ALL-WEATHER LANDING SYSTEM N64-20932 14-22

TURBOJET AIRCRAFT INSTRUMENTS FOR LANDING SYSTEM FOR USE UNDER CATEGORY III WEATHER CONDITION N64-20934 14-15

WEATHER CONDITION MEASUREMENTS AND OPERATIONAL LIMITS OF ALL-WEATHER LANDING SYSTEM N64-20936 14-21

VISUAL AIDS SYSTEM FOR ALL-WEATHER LANDING SYSTEM N64-20937 14-22

SPIN-UP STUDY FOR RANGER LANDING SYSTEM
U-2252, VOL. 3 N64-21499 15-32

DISPERSION PERFORMANCE FOR RANGER LANDING SYSTEM
U-2252, VOL. 1 N64-21821 15-32

FEASIBILITY OF MARS LANDING AND RETURN MISSIONS N64-26982 19-29

MANNED MARS LANDING AND RETURN MISSION N64-26984 19-29

MANEUVERABLE LANDING SYSTEM FOR MARS LANDING N64-26985 19-29

LUNAR LANDING SYSTEMS
MM-64-4 N64-29626 21-06

PARAMETRIC STUDY OF LUNAR LANDING SYSTEMS N64-29627 21-06

STABILITY OF TWO-DIMENSIONAL TOUCHDOWN LANDING OF LUNAR VEHICLE N64-29631 21-10

EXPERIMENTAL TEST WITH DYNAMICALLY SCALED DROP TEST MODEL OF LUNAR LANDING VEHICLE N64-29632 21-10

COMPARISON OF EXPERIMENTAL AND THEORETICAL STUDIES OF LUNAR LANDING SYSTEMS N64-29633 21-10

CLIMATOLOGIC DATA FOR AIRPORT LANDING SYSTEMS - CLEVELAND, OHIO
RD-64-54, VOL. 13 N64-31143 22-22

CLIMATOLOGY OF PROPOSED LANDING SYSTEMS FOR MAJOR AIRPORTS - ATLANTA, GEORGIA
RD-64-54, VOL. 14 N64-31144 22-22

CLIMATOLOGY OF PROPOSED LANDING SYSTEMS FOR MAJOR AIRPORTS - NEWARK, NEW JERSEY
RD-64-54, VOL. 15 N64-31145 22-22

CLIMATOLOGICAL DATA FOR AIRPORT LANDING SYSTEMS - SAN FRANCISCO, CALIFORNIA
RD-64-54, VOL. 16 N64-31146 22-22

CLIMATOLOGICAL DATA FOR AIRPORT LANDING SYSTEMS - FORT WORTH, TEXAS
RD-64-54, VOL. 17 N64-31147 22-22

CLIMATOLOGICAL DATA FOR AIRPORT LANDING SYSTEMS - HOUSTON, TEXAS
RD-64-54, VOL. 18 N64-31148 22-22

AIRCRAFT APPROACH AND LANDING SYSTEMS FOR WORLDWIDE, ALL WEATHER, DAY AND NIGHT OPERATION FOR TACTICAL OPERATION MOBILITY
AD-442741 N64-32585 23-22

LANGMUIR PROBE
ELECTRON DENSITY PROFILE MEASUREMENTS IN NIGHTTIME E-LAYER USING LANGMUIR PROBE
NASA-CR-52553 N64-11074 02-12

LANGMUIR PROBE DIAGNOSTICS FOR STUDY OF HIGH SPEED PLASMA IMPINGING UPON THREE DIMENSIONAL MAGNETIC DIPOLE
NASA-CR-52909 N64-11820 03-24

THERMOELECTRIC PROPERTIES OF THERMIONIC CONVERTERS ANALYZED USING LANGMUIR PROBE ANALOGY
RR-TR-63-22 N64-12666 04-09

LANGMUIR PROBE METHOD OF INVESTIGATING DEIONIZING PLASMA
FTD-TT-62-1734 N64-13919 05-24

ASYMPTOTIC ANALYSIS OF LANGMUIR PROBE PROBLEM IN QUIESCENT COLLISIONLESS PLASMA
AFOSR-64-0353 N64-18901 11-24

QUANTITATIVE ANALYSIS OF PLASMA SHEATH ABOUT LANGMUIR PROBE
NASA-CR-53971 N64-20587 13-24

CHANGES IN WORK FUNCTION OF LANGMUIR PROBE IN LOW DENSITY DISCHARGE TUBE AT HIGH TEMPERATURES
NASA-CR-56170 N64-20817 14-24

USE OF GUARD SHIELDS ON NEGATIVELY BIASED LANGMUIR ION COLLECTION CURRENT PROBES
AMP-137 N64-23102 16-24

ELECTRON DENSITY PROFILE IN PLASMA JET - LANGMUIR PROBE DETERMINATION
R-89 N64-23985 16-24

LANGMUIR PROBE AND VELOCITY MEASUREMENTS IN PLASMA JET N64-26147 18-24

RELATIONSHIP FOR PLASMA SHEATHS ABOUT LANGMUIR PROBES
AFCRL-64-429 N64-26907 18-24

SATURATION ION CURRENTS TO LANGMUIR PROBES
MATT-272 N64-27450 19-24

LANGMUIR PROBE CHARACTERISTICS FROM ELECTROCHEMICAL REACTIONS OF IONIZED GAS & BLUNT BODY STAGNATION FLOW
BSD-TDR-64-103 N64-27491 19-11

LANGMUIR PROBE USED TO MEASURE ELECTRON DENSITY IN PLASMA SHEATH AROUND REENTRY VEHICLE
NASA-CR-56371 N64-27909 20-24

HIGH POWER BEAM PLASMA AMPLIFIER - LANGMUIR PROBE PLASMA MAPPING VEHICLE
REPT.-5 N64-28626 20-69

LANGMUIR PROBE RESPONSE TO PERIODIC WAVEFORM AND APPLICATION TO STUDY OF LABORATORY PLASMAS OR CHARGED PARTICLES IN SPACE N64-33151 24-24

LANGUAGE
SA CULTURE
SA MACHINE LANGUAGE
SA SPEECH
PROBLEMS SET ON COMPUTERS FOR SOLUTION OF DEPENDENCE GRAMMARS
EUR-220.I N64-10981 02-20

THEORIES ABOUT REGULAR BASES OF SETS OF WORDS - MATHEMATICAL ANALYSIS OF AUTOMATION & LANGUAGE
N64-12303 03-20

SOUND SPECTRUM ANALYSIS, SYNTHETIC VOWEL SPECTRUM ENVELOPES, AND PERCEPTION OF INTONATION IN FRENCH, ENGLISH, AND SWEDISH SPEECH
AD-424609 N64-12975 04-14

LANGUAGE AND INFORMATION PROCESSING, INFORMATION RETRIEVAL STUDIES AND LINGUISTICS
TM-530/007/00 N64-16257 08-20

LINGUISTICS, MACHINE LANGUAGE, AND LANGUAGE PROCESSING
ESD-TDR-63-620 N64-16825 08-20

PHONOLOGY, MORPHOLOGY, SYNTAX, LANGUAGE LEARNING & DISTURBANCES, LINGUISTIC CHANGE, SEMANTICS, AND LOGICAL FOUNDATIONS OF LANGUAGE THEORY
N64-17883 10-01

SEARCHING TECHNIQUE FOR AUTOMATIC STORAGE AND RETRIEVAL OF LANGUAGE INFORMATION
CACL-3 N64-18196 10-20

SURVEY OF ALGOL-LIKE OR CONTEXT-FREE LANGUAGES
TM-738-006-00 N64-20160 13-20

PLACE - PROGRAMMING LANGUAGE FOR AUTOMATIC CHECKOUT EQUIPMENT AND ADAPTATIONS FOR DIGITAL COMPUTER CONTROLLED CHECKOUT MACHINE
RTD-TDR-4171, VOL. 1 N64-20171 13-20

SEQUENTIAL PROGRAMMING CONTROL LANGUAGE FOR PARALLEL NETWORK COMPUTER SYSTEM
RADC-TDR-64-175 N64-26169 18-20

PROGRAMMING LANGUAGE AND METHODS FOR NONNUMERICAL PROBLEMS
EUR-365.F N64-28450 20-20

OPERATIONS AND LANGUAGE FOR DIGITAL COMPUTER PROGRAMMING USING SYSTEMATIC SYNTHESIS TECHNIQUES
RADC-TDR-64-135 N64-28466 20-20

SYNTACTIC AND SEMANTIC COMPONENTS OF LINGUISTIC DESCRIPTION OF NATURAL LANGUAGE
NASA-CR-58224 N64-28937 20-08

TAXONOMY VERSUS MENTALISM IN LINGUISTICS AND THEORY OF LANGUAGE N64-32947 24-14

MODELING IN TEACHING FOREIGN LANGUAGES AND PROBLEMS OF PROGRAMMED INSTRUCTION USING PSYCHOLOGY
JPRS-27166 N64-33485 24-14

LANSRAUX SERIES
S BESSEL FUNCTION
S HANKEL FUNCTION

LANTHANUM
INFLUENCE OF CERIUM, LANTHANUM, AND NEODYMIUM ON PROPERTIES OF HIGH-TEMPERATURE NICKEL-BASE ALLOYS
JPRS-21895 N64-10382 01-18

MASS SPECTROMETRIC DETERMINATION OF DISSOCIATION ENERGY OF SCANDIUM, YTTRIUM, LANTHANUM, & YTTRIUM-LANTHANUM ALLOY
WADD-TR-60-782, PT. 19 N64-14514 06-07

EVIDENCE FOR NEW REGION OF NUCLEAR DEFORMATION IN NEUTRON-DEFICIENT RARE EARTH METALS PRODUCING NEUTRON-DEFICIENT LANTHANUM ISOTOPES
UCRL-10798 N64-15241 07-23

PHYSICAL PROPERTIES AND MAGNETIC SUSCEPTIBILITIES OF TANTALUM COMPOUNDS /ORTHOTANTALATES/ OF LANTHANUM, SAMARIUM, AND EUROPIUM
FTD-TT-64-321/1&4 N64-25471 17-19

LANTHANUM ALLOY
MASS SPECTROMETRIC DETERMINATION OF DISSOCIATION ENERGY OF SCANDIUM, YTTRIUM, LANTHANUM, & YTTRIUM-LANTHANUM ALLOY
WADD-TR-60-782, PT. 19 N64-14514 06-07

LANTHANUM COMPOUND
OPTICAL SPECTRUM ANALYSIS OF TRIVALENT ERBIUM IONS EMBEDDED IN CRYSTALLINE LANTHANUM FLUORIDE
TDR-169/3250-24/TN-4 N64-13778 04-25

LANTHANUM ALUMINO SILICATE CERAMIC DIELECTRICS
N64-16613 08-19

CONDITIONS OF FORMATION OF LANTHANUM TELLURIDES & PHASE COMPOSITIONS
FTD-MT-63-249 N64-18692 11-25

CHROMATOGRAPHIC CONCENTRATION AND SPECTROGRAPHIC DETERMINATION OF CADMIUM, YTTRIUM, SCANDIUM AND LANTHANON TRACES IN URANIUM METAL
EUR-587.E N64-20878 14-07

YTTRIUM-ALUMINUM GARNET /YAG/ CRYSTAL, LANTHANUM ALUMINATE, & CALCIUM MOLYBDATE AS HOST MATERIALS FOR SOLID STATE ROOM TEMPERATURE LASERS
IER-3 N64-30170 21-25

LANTHANUM FLUORIDE
OPTICAL SPECTRUM ANALYSIS OF TRIVALENT ERBIUM IONS EMBEDDED IN CRYSTALLINE LANTHANUM FLUORIDE
TDR-169/3250-24/TN-4 N64-13778 04-25

LAPLACE EQUATION
COMPUTATION PROCEDURE FOR BEHAVIOR OF LAPLACE COEFFICIENTS AND NEWCOMB DERIVATIVES - APPLICATION TO PLANETARY DISTURBING FUNCTION
NASA-CR-52537 N64-10437 01-20

EXPRESSION OF SOLID SPHERICAL HARMONIC ON ONE CENTER AS COMBINATION OF SOLID SPHERICAL HARMONICS ON ANOTHER CENTER USING LAPLACE EQUATION
N64-20415 13-20

GENERALIZATION OF LAPLACE EXPANSION TO ARBITRARY POWERS AND FUNCTIONS OF DISTANCE BETWEEN TWO POINTS N64-22064 15-20

LAPLACE DIFFERENTIAL EQUATIONS FOR AUTOMATIC CONTROL SYSTEMS UNDER RANDOM EFFECTS
N64-24704 17-6

NEW SOLUTIONS OF LAPLACE EQUATION IN SPHERICAL COORDINATES - HARMONIC FUNCTIONS FOR BOUNDARY VALUE PROBLEMS RELATED TO SPHERE
REPT.-105 N64-27768 19-20

LAPLACE OPERATOR
CALCULATIONS OF EIGENVALUE OF LAPLACE OPERATOR BY GRID METHOD
FTD-MT-63-328 N64-31913 23-20

LAPLACE TRANSFORM
LAPLACE TRANSFORM FOR SUDDEN START, RELAXATION, & HARMONIC PRESSURE OSCILLATION OF LAMINAR FLUID FLOW IN PIPES
E-T-G-G-63-16 N64-13110 04-11

STRESS-STRAIN DISTRIBUTION IN SOLID PROPELLANT BONDED TO RIGID PLATE AND VISCOELASTIC STRESS ANALYSIS WITH LAPLACE TRANSFORMS
P-63-13 N64-13254 04-33

APPROXIMATE METHODS FOR INVERTING LAPLACE TRANSFORMS IN VISCOELASTIC STRESS ANALYSIS
N64-13256 04-33

MATRIX ALGEBRA AND LAPLACE TRANSFORMS
AFCRL-63-390 N64-16092 07-20

MATRIX ALGEBRA AND LAPLACE TRANSFORMS
AFCRL-63-391 N64-16093 07-20

TECHNIQUE OF NUMERICAL INVERSION OF LAPLACE TRANSFORMS AS APPLIED TO HEAT EQUATION FOR INHOMOGENEOUS MEDIUM
RM-3974-NIH N64-19973 12-20

NUMERICAL SOLUTION TO RENEWAL EQUATION BY MEANS OF

LAPLACE TRANSFORM
RM-3948-NIH N64-21111 14-20

NUMERICAL ANALYSIS OF FUNCTIONAL LINEAR DIFFERENTIAL EQUATIONS BY LAPLACE TRANSFORM
RM-4089-NIH N64-30399 22-20

LONGITUDINAL MOTION OF ELASTIC ROD WITH ATTACHED MASS IN RESISTING MEDIUM - LAPLACE TRANSFORM SOLUTION
NWL-1931 N64-31650 23-33

NUMERICAL SOLUTION OF FUNCTIONAL EQUATIONS BY LAPLACE TRANSFORM - STOCHASTIC TIME OPTIMAL CONTROL
RM-4119-PR N64-31817 23-20

NUMERICAL INVERSION OF LAPLACE TRANSFORM IN NONLINEAR FUNCTIONAL EQUATIONS
RM-4088-NIH N64-31974 23-20

INVERSION OF LAPLACE TRANSFORMS FOR PARAMETER IDENTIFICATION OF LINEAR SYSTEMS
RM-4262-PR N64-33462 24-20

LARMOR ORBIT
CONDITION FOR PLASMA STABILITY INCLUDING FINITE LARMOR RADIUS EFFECTS
MATT-289 N64-28422 20-24

FINITE LARMOR ORBIT RADIUS EFFECT ON INSTABILITY OF ALFVEN IONIC WAVE
IPPJ-28 N64-33498 24-24

LASER
SA RUBY LASER
SA TRANSIENT OSCILLATION
CF AMPLIFIER
CF IMAGE INTENSIFIER
CF LIGHT AMPLIFIER
CF OPTICAL MASER
CF SOLID STATE DEVICE
S-66 SATELLITE OPTICAL TRACKING EXPERIMENT USING LASER BEACON
NASA-TM-X-52075 N64-10108 01-25

LASERS AND MASERS - DESCRIPTION, IMPROVEMENTS, AND APPLICATIONS N64-12559 04-25

LASER - NOVEL PROPERTIES, WORKING PRINCIPLES, AND COHERENCE OF LASER RADIATION N64-12560 04-25

LASER MATERIALS - SELECTION, SYNTHESIS & DOPING OF HOST MATERIAL, SINGLE CRYSTAL GROWTH N64-12561 04-25

LASER CRYSTAL GROWTH AND REFINING N64-12562 04-25

WIDEBAND LASER MODULATORS USING CRYSTALS WITH LINEAR ELECTRO-OPTIC EFFECTS, MICROWAVE PHOTOTUBE TO DEMODULATE LIGHT N64-12563 04-25

LASER RANGING SYSTEM - SIGHTING TELESCOPE, TRANSMITTER, RECEIVER OPTICS N64-12564 04-25

LASER APPLICATIONS - AMPLIFIER, POWER GENERATOR, & DETECTOR FOR COMMUNICATIONS & RADAR SYSTEMS N64-12565 04-25

LASER WITH SUN AS PUMPING SOURCE N64-12567 04-25

WIDEBAND MICROWAVE PHOTOTUBE FOR LASER COMMUNICATIONS SYSTEMS N64-12568 04-25

SEMICONDUCTOR LASER DIODES AS LIGHT AMPLIFIERS, OXYGEN GAS LASER LIGHT SOURCES
RADC-TDR-63-429 N64-12587 04-25

SUN-POWERED LASER TRANSMITTER - MATERIALS, DESIGN, FABRICATION, COOLING, AND OPERATION
ASD-TDR-63-727 N64-12870 04-25

SIMPLIFYING THEORY OF OPTICAL RESONATORS TO ANALYZE COMPLEX CAVITIES - LASER THEORY
AD-423698 N64-12993 04-25

ABSORPTION, FLUORESCENCE, AND LASER RADIATION SPECTRA FOR SOME COMMERCIAL LASER CRYSTALS
N64-13238 04-25

LASERS FOR COMMUNICATION & DIFFRACTION OF COHERENT SOURCES
RADC-TDR-63-217 N64-13426 05-01

PERFORMANCE OF LASER OPTICAL COMMUNICATION SYSTEM FOR USE WITH ECHO SATELLITE N64-13427 05-25

GROWTH OF OPTICAL CRYSTALS SUITABLE FOR LASER OPERATION
ASE-466 N64-13720 05-25

RECOMBINATION RADIATION & LASER ACTION IN GALLIUM ARSENIDE DIODES
TDR-169/3250-11/TN-2 N64-13843 05-25

GALLIUM ARSENIC PHOSPHIDE SYNTHESIS BY HALOGEN VAPOR INTO LASER JUNCTIONS
AFCRL-63-552/B/ N64-13844 05-25

GASEOUS LASER USING NEON-HELIUM OR OXYGEN TO PRODUCE OPTICAL RADIATION
NASA-CR-55276 N64-13929 05-25

PROPERTIES OF LASER DEVICES
TRG-134-QTR-6 N64-13959 05-25

THERMAL DIFFUSIVITY OF SOLIDS USING LASER AS PULSE HEAT SOURCE
ASD-TDR-63-882 N64-14116 05-13

PROSPECTS FOR USE OF LASERS IN BIOLOGY & MEDICINE
JPRS-22994 N64-14149 05-16

ANGULAR ROTATION SENSOR USING SQUARE RING LASER
ASD-TDR-63-694 N64-14316 06-25

GENERATION & CONTROL OF COHERENT OPTICAL BEAMS - SOLID, LIQUID, & GAS LASERS
RADC-TDR-63-450, VOL. 2 N64-14495 06-25

LASER TECHNIQUES FOR DOPPLER OPTICAL NAVIGATION - SUBCARRIER FREQUENCY, ELECTRO-OPTICAL MODULATION, AND NOISE ELIMINATION
QPR-2 N64-14667 06-25

RING LASER BIASING USING SOLID, LIQUID, & GASEOUS FIZEAU EFFECT, MODE INTERACTION, AND ROTATION DIRECTION SENSING
AB-110B-0016-2 N64-14677 06-25

GLASS LASER RESEARCH - SPECTRAL PROPERTIES OF NEODYMIUM-DOPED GLASSES
LRC-63-991 N64-14783 06-19

MICROWAVE CIRCUIT THEORY OF LASER OPERATION
RN-163 N64-14874 06-25

USE OF LASERS AS COMMUNICATIONS DEVICES
N64-15469 07-25

ZEEMAN EFFECT IN EMISSION INTENSITY OF GAS DISCHARGE LASER
USAELRDL-TR-2322A N64-15708 07-25

BIBLIOGRAPHY OF LASER TECHNOLOGY
SB-63-23 N64-15978 07-25

OPTICALLY PUMPED SOLID STATE LASER WITH CONTINUOUS WAVE POWER
SR-3 N64-16441 08-25

LASER - STIMULATED RAMAN SCATTERING AND RELATED PARAMETRIC EFFECTS N64-16442 08-23

LASERS FOR SPACE COMMUNICATION
NASA-CR-55814 N64-16711 08-25

SOLID STATE RESEARCH IN AREAS OF LASER, BAND STRUCTURE, SPECTROSCOPY, MAGNETISM, AND RESONANCE
ESD-TDR-64-15 N64-16774 08-25

SOLID STATE PHYSICS RESEARCH - LASERS, SEEBECK COEFFICIENT, MATERIALS, SPECTROSCOPY, & MAGNETISM AND RESONANCE
ESD-TDR-63-584 N64-16848 08-25

BIBLIOGRAPHY ON MASERS AND LASERS
TG-230-81 N64-16962 09-25

INJECTION LASER STUDY
AD-430696 N64-17870 10-25

CONSTRUCTION OF INJECTION LASER FROM SINGLE SEMICONDUCTING GALLIUM ARSENIDE CRYSTAL DIODE
N64-17871 10-25

ELECTRICAL AND OPTICAL PROPERTIES OF DIODES PREPARED FROM DIFFUSION OF MANGANESE AND ZINC INTO GALLIUM ARSENIDE - LASERS N64-17873 10-25

OPTICAL SPACE COMMUNICATION SYSTEM - PERFORMANCE OF PHOTOMULTIPLIERS AND LASER PROPAGATION
NASA-CR-53467 N64-18132 10-08

SPECTRAL, THRESHOLD, AND COMPOSITION PROPERTIES OF SODA-LIME-SILICATE LASER
AD-431753 N64-18579 11-25

REFLECTION AND REFRACTION IN NONTURBULENT AIR FOR DESIGN OF HIGH PRECISION LASER RADAR SYSTEMS
EE-101 N64-18771 11-23

SEMICONDUCTOR DEVICES & PREPARATION OF LASER MATERIALS
AFCRL-64-135 N64-18904 11-25

SIMULATION OF METEOROID IMPACT BY IMPINGEMENT OF FOCUSED PULSE OF ENERGY FROM LASER ON TARGET SURFACE
NASA-CR-54029 N64-19788 12-10

ELECTRO-OPTICAL MEASUREMENT OF MISSILE ATTITUDE DURING LAUNCH USING LASER BEAMS
ESD-TDR-63-624 N64-19974 12-15

PHYSICS & ELECTRONICS RESEARCH - SEMICONDUCTORS, INFRARED RADIATION, COMPUTER DESIGN, MASERS, LASERS, RADIO ASTRONOMY, & RADIO METEOROLOGY
ONRL-9-64 N64-20308 13-01

RETRODIRECTIVE REFLECTING PROPERTIES OF CORNER REFLECTOR USED TO AIM LASER BEAM
NAVWEPS-8481 N64-20398 13-25

FABRICATION OF SAPPHIRE QUARTER-WAVE PLATES FOR USE WITH RUBY IN NOVEL LONGITUDINAL MODE SELECTOR - LASER DEVICE
AD-600267 N64-20905 14-25

NEW RADAR EQUIPMENT - TRACKING RADAR, LINEAR PHASED ANTENNA ARRAYS, SCANNING DEVICE, LASERS, AND THREE-DIMENSIONAL RADAR
JPRS-24841 N64-21044 14-08

DOPPLER EFFECT OBSERVATION IN REFLECTED LASER BEAM FOR SATELLITE VELOCITY MEASUREMENT
AD-434227 N64-21185 14-22

LUNAR OPTICAL RANGING EXPERIMENT USING LASERS
AFCRL-63-908 N64-21669 15-08

BETATRON, CONVERTER CAMERA, LASER INTERFEROMETER, AND SHOCK TUBE FACILITY FOR PLASMA PARTICLE ACCELERATION STUDY
AFCRL-64-412 N64-21709 15-24

LASERS AND THEIR BIOLOGICAL EFFECTS
OR-3885 N64-21784 15-25

LASER - ANALYSIS OF GENERALIZED OPTICAL ARRAYS
RTD-TDR-63-4138 N64-21982 15-23

SOLID STATE PHYSICS - DEVICES, LASERS, MAGNETISM & RESONANCE
ESD-TDR-64-16 N64-22222 15-25

LASER TECHNOLOGY RELATED TO LIGHT GENERATION, MODULATION, AND DETECTION FOR AIRWAYS COMMUNICATION SYSTEMS
ICS-64-TR-379 N64-22237 15-25

REFLECTION FROM BODIES IN FAR FIELD AND LASER BEAM MEASUREMENTS WITH RESPECT TO INTENSITY AND TIME
AD-423641 N64-22547 15-08

OPERATION OF NEODYMIUM LASER
NOLTR-64-32 N64-23926 16-25

IN-CAVITY LASER MODULATION & OUTPUT
RADC-TDR-64-129 N64-23959 16-25

FOCUSING AND CONTROL OF INTENSE LASER BEAM
REPT.-1579-6 N64-23975 16-09

HIGH POWER HIGH VOLTAGE RESEARCH FACILITY - TRANSMISSION LINES, MICROWAVE COMPONENTS, LASERS, AND RADIATION WEAPONS
EB-5296-0359-2 N64-24067 16-09

PROTECTION OF HUMAN EYE FROM LASER BEAM
TR-1153 N64-24092 16-14

REFLECTION PROPERTIES OF AIRCRAFT MATERIALS WITH ILLUMINATION BY PULSED LASERS N64-24310 17-08

DIGITAL TIME-INTERVAL COUNTER FOR RANGE READING DISPLAY WHEN COUPLED TO LASER RANGEFINDER
HDL-TR-1199 N64-24331 17-15

TRANSMISSION AMPLIFIER WITH PULSED LASER DIODE & OXYGEN GAS LASER
RADC-TDR-64-148 N64-24349 17-09

HELIUM-NEON VISIBLE LASER
AD-437650 N64-25036 17-25

EXCITATION OF TRIVALENT RARE EARTH ION LASERS AND OTHER SOLID STATE LASER STUDIES
IER-1 N64-25090 17-25

ENERGY CONVERSION BY FLUORESCENCE PUMPING OF LASERS
NOTS-TP-3506 N64-25120 17-25

HELIUM-NEON GAS LASER AS LIGHT SOURCE FOR PHOTOGRAPHIC CONTACT PRINTERS
RADC-TDR-64-120 N64-25232 17-15

LASER BEAM TO DETERMINE INCIDENT RADIATION OF TARGETS
QPR-3 N64-25515 17-25

MOMENTUM TRANSFER AND CRATERING EFFECTS PRODUCED BY GIANT LASER PULSES
NASA-RP-267 N64-26081 18-25

SOLID STATE DEVICE, LASERS, REFRACTORY CRYSTALS, MOLECULAR RESONANCE, AND STRUCTURAL BAND RESEARCH
ESD-TDR-64-47 N64-26264 18-25

SOLAR POWERED LASER TRANSMITTER
IER-2 N64-26652 18-25

LASER, OPTICAL DETECTOR, AND MODULATION SYSTEMS FOR DEEP SPACE OPTICAL COMMUNICATION STUDY
NASA-CR-73 N64-26667 18-08

EXPERIMENTAL VERIFICATION OF SUN POWERED LASER TRANSMITTER PERFORMANCE
AD-437865 N64-26674 18-25

LASER OPTICS METHOD FOR LUNAR OBSERVATION
FTD-TT-64-336/1 N64-26933 18-05

SCATTERING OF PULSED LASER LIGHT FROM PLASMAS
NASA-CR-56889 N64-27290 19-24

PHYSICAL MECHANISMS OF GASES - ELECTRICAL BREAKDOWN UNDER INTENSE OPTICAL ILLUMINATION FROM LASER
C-920088-2 N64-27562 19-24

MICROWAVE RESEARCH - PIEZOELECTRIC SEMICONDUCTORS, OPTICAL MASERS, MICROWAVE PROPAGATION, LIGHT WAVE DIFFRACTION, AND LASER BEAMS
ML-1192 N64-27737 19-25

GAMMA IRRADIATED LASER MATERIALS, TUNNELING STUDIES, MILLIMETER WAVE MASERS, GAS LASERS - SOLID STATE STUDIES N64-27998 20-23

DESIGN AND FABRICATION OF OPTICAL FILTERS FOR LASER FREQUENCY - MICA SPACER INTERFERENCE FILTER
QPR-2 N64-28144 20-25

LASER MATERIALS STUDY - FORMULATION OF LOW MELTING LITHIUM SILICATE GLASS
AD-442059 N64-28283 20-25

REFLECTION TYPE LASER AMPLIFIER
TR-2467 N64-28526 20-25

OPTICALLY PUMPED SOLID STATE LASER WITH TEN WATTS OF CONTINUOUS WAVE POWER
IER-5 N64-28550 20-25

LASER TECHNIQUES FOR DOPPLER OPTICAL NAVIGATION IN SPACE VEHICLE GUIDANCE
QPR-1 N64-29051 21-08

ELECTROMAGNETIC ANGULAR ROTATION SENSOR - TRAVELING WAVE RING LASER
AB-1108-0016-1 N64-29284 21-15

PHYSICAL THEORY OF LIQUID LASERS AND NUCLEAR PUMPING OF SEMICONDUCTOR LASERS
MHD-645 N64-29382 21-25

PUMPING OF CALCIUM FLUORIDE-DYSPROSIUM ION LASER USING GALLIUM ARSENIDE DIODES
NASA-CR-58645 N64-29407 21-09

SOLID STATE RESEARCH - MATERIALS, DEVICES, LASERS, AND SPECTROSCOPY OF SOLIDS
ESD-TDR-64-48 N64-29420 21-25

IMPURITY STRIATIONS IN GALLIUM ARSENIDE CRYSTALS GROWN FOR USE IN LASERS
AD-442598 N64-29641 21-25

GROWTH OF LARGE CUBIC CRYSTALS FOR LASERS FROM STANNATES, TITANATES, AND ZIRCONATES OF BARIUM AND STRONTIUM
AD-442555 N64-29681 21-25

LASER ELECTROMAGNETICS - GENERATION, PROPAGATION, AND DETECTION OF VERY HIGH FREQUENCY OPTICAL COHERENT RADIATION
AFCRL-64-538 N64-29835 21-25

MODE STRUCTURE OF LASER AND VECTOR WAVE EQUATION FOR ROTATIONAL FIELDS IN SPHERICAL MIRROR RESONATORS
AFOSR-64-1311 N64-29837 21-23

SATELLITE CONFIGURATIONS FOR REFLECTION OF OPTICAL SIGNALS FROM HIGH POWER LASERS
AFCRL-64-475 N64-29909 21-08

YTTRIUM-ALUMINUM GARNET /YAG/ CRYSTAL, LANTHANUM ALUMINATE, & CALCIUM MOLYBDATE AS HOST MATERIALS FOR SOLID STATE ROOM TEMPERATURE LASERS
IER-3 N64-30170 21-25

NONLINEAR & LINEAR MICROWAVE PROPAGATION, OPTICAL SPECTROSCOPY OF LASER MATERIALS, AND NONLINEAR QUANTUM MECHANICS OF LASERS
ML-1189 N64-30190 21-24

COMPUTER PROGRAM FOR GAIN AND LOSS CHARACTERISTICS OF LASERS, GALLIUM ARSENIDE LASER DIODES, AND SWITCHING IN INJECTION LASERS
QPR-4 N64-30534 22-25

PHYSICAL PROPERTIES, FLUORESCENCE, AND THEORETICAL ENERGY DISTRIBUTION OF GLASS FOR LASER
AD-443680 N64-30591 22-25

CRYSTALLOGRAPHY, CRYSTAL GROWTH & CHEMISTRY, GLASS, IONS FOR LASERS, AND ANNOTATED BIBLIOGRAPHY ON LASER MATERIALS
NASA-CR-75 N64-30992 22-25

LASER DEEP SPACE /INTERPLANETARY/ COMMUNICATION SYSTEM N64-31014 22-08

AROMATIC ORGANIC LASER DEVELOPMENT
AD-429409 N64-31121 22-25

AROMATIC ORGANIC LASER - SPECTROSCOPIC MEASUREMENTS, POLYMERIZATION, AND OPTICAL PROPERTY OF POLYMERS
AD-444962 N64-31122 22-25

EUROPIUM BENZOYLACETONATE LASER PROCESSES
TR-63-052.2 N64-31142 22-25

DETERMINATION OF ENERGY OF PULSED LASER BEAM BY TRANSFER OF PHOTON MOMENTUM TO BALLISTIC PENDULUM
NOLTR-63-82 N64-31247 22-25

PREPARATION AND ELECTROLUMINESCENCE OF ZINC AND CADMIUM SEMICONDUCTOR MATERIALS FOR LASERS
AD-442258 N64-31642 23-25

SEMICONDUCTOR DEVICE STUDIES - COPPER-DOPED AND SILVER-DOPED CADMIUM SULFIDE CRYSTALS, IMPURITY EFFECT ON ZINC SELENIDE ELECTRIC PROPERTIES, AND JUNCTION LASER DESIGN
AFCRL-64-702 N64-31819 23-25

EXCHANGE INTERACTIONS TO PRODUCE POPULATION INVERSIONS IN LASER MATERIALS - COOPERATIVE MECHANISMS IN CHLORIDES OF PRASEODYMIUM AND ERBIUM
AFCRL-64-261 N64-31985 23-25

HUMAN FACTORS ENGINEERING STUDY OF DESIGN CONFIGURATIONS FOR LASER RANGE FINDER
R-1664 N64-32024 23-15

ATMOSPHERIC EFFECTS ON LASER PROPAGATION
SID-64-1894-1 N64-32083 23-08

RESONANT MODES OF LASER CAVITY HAVING END MIRRORS WITH PERIODIC REFLECTIVITY
AFCRL-64-355 N64-32206 23-23

LASERS AND THEIR APPLICATIONS
JPRS-26744 N64-32231 23-25

LIQUID SCATTERING OF LASER EXCITED BEAM N64-32303 23-23

THOMSON SCATTERING OF LASER BEAM FROM LABORATORY HYDROGEN PLASMA
RR-187 N64-32448 23-24

BASIC PRINCIPLES OF ELECTROSTATIC, CRYOGENIC, LASER, AND NUCLEAR GYROS
AD-602197 N64-32607 23-15

EFFECT OF ATMOSPHERIC TURBULENCE ON LASER COMMUNICATIONS SYSTEM, OPTICAL WAVE FRONT DISTORTION, ANGULAR SCINTILLATION, AND PHASE AND AMPLITUDE CORRELATION FUNCTIONS
SID-64-1894-2 N64-32756 24-08

EFFECT OF ATMOSPHERIC TURBULENCE ON LASER COMMUNICATION SYSTEMS
TM-91 N64-32757 24-08

PEAK POWER LIMITER FOR LARGE LASER PULSES
REPT.-1579-13 N64-32875 24-25

BEACON EXPLORER SATELLITE FOR IONOSPHERIC STUDY AND EVALUATION OF LASER TECHNIQUE FOR DERIVING ORBITAL AND GEODETIC INFORMATION N64-32948 24-32

LASER RESEARCH - RUBY RELAXATION AND FLUORESCENT PHENOMENA, HIGH RESOLUTION SPECTOGRAPH, AND FLASH LAMP
NRL-1553 N64-33145 24-25

MACROSCOPIC WAVEGUIDE MEDIUM FOR LASER SYSTEM COMPONENTS - CHEMICAL DIFFUSION FOR CONTROL OF DIELECTRIC CONSTANT
NASA-CR-58999 N64-33168 24-23

TRAVELING WAVE RING LASER FOR ROTATION SENSING
AB-1272-0011 N64-33275 24-15

LASERS IN SPACE, ON GROUND, AND UNDERWATER
JPRS-27167 N64-33346 24-23

ABSORPTION AND EMISSION SPECTRA STUDIES OF CALCIUM FLUORIDE AND CADMIUM FLUORIDE CRYSTALS DOPED WITH TRANSITION METAL AND/OR RARE EARTH IONS FOR USE AS LASER HOSTS
AD-446246 N64-33749 24-25

FLUORESCENCE ON NONSOLARIZING LASER GLASS MATERIAL - DEFENDER PROJECT

TSR-4 N64-33925 24-25

LASER OUTPUT
INVESTIGATION OF PARTICLE EMISSION FROM LASER-BEAM HEATED SURFACES
RADC-TDR-63-465, VOL. 2 N64-13796 05-25

PARTICLE EMISSION FROM TUNGSTEN CATHODE SURFACE HEATED BY PULSED LASER BEAM N64-13797 05-25

ELECTRON & ION EMISSION FROM LASER-HEATED OXIDE CATHODES N64-13798 05-25

DOUBLE-PHOTON INDUCED PHOTOELECTRIC EMISSION FROM ZINC SINGLE CRYSTALS ACTIVATED BY LASER BEAM N64-13799 05-25

EMISSION OF ELECTRONS & IONS FROM TUNGSTEN SURFACE HEATED BY PULSED LASER BEAM N64-13800 05-25

USING LASER BEAMS FOR SPACE COMMUNICATION
FTD-TT-62-721/1&2 N64-15686 07-08

PLASMA GENERATION WITH HIGH ENERGY, SHORT LASER PULSES
MATT-222 N64-16665 08-24

LASER CONCEPTUAL MODELS, OUTPUT PARAMETERS, AND MEASUREMENT TECHNIQUES
RADC-TDR-63-564 N64-17961 10-25

SIGNAL DETECTION, LASER BEAM PROPAGATION, AND SCATTERING STUDIES IN OPTICAL SPACE COMMUNICATION
NASA-CR-53466 N64-18133 10-11

PLASMA DIAGNOSTICS USING RAMAN SCATTERING OF LASER BEAM FROM PLASMAS
RADC-TDR-64-5 N64-18566 11-24

CONTROL OF LASER OUTPUT PERFORMANCE
C-920083-9 N64-21682 15-25

BREWSTER ANGLE OUTPUT WINDOW REQUIREMENTS FOR LOW GAIN GAS LASER SYSTEMS
RN-177 N64-25965 18-25

DEFECT CHEMISTRY OF COMPOUNDS WITH COMPARISON OF ELECTRICAL BEHAVIOR AFTER ELECTRON BOMBARDMENT
AFCRL-64-467 N64-28579 20-25

ELECTRO-OPTICAL AND PIEZOELECTRIC METHODS FOR RAPID DEFLECTION OF LASER BEAMS
NASA-CR-58626 N64-28886 20-25

NEON-HYDROGEN LASER AND PHASE RELATIONSHIP BETWEEN OPTICAL PUMP AND PULSED LASER OUTPUT
AD-603405 N64-30907 22-24

SOLID STATE LASER WITH MANY ACTIVE ELEMENTS - OSCILLATION CONDITIONS, ASYMPTOTIC EXPRESSIONS, AND OPTICAL CORRECTION OF INHERENT DEFECTS
AFCRL-64-604 N64-31811 23-25

GAS LASER MEDIA AND OUTPUT CONTROL
TRG-134-QTR-9 N64-33944 24-25

LATERAL CONTROL
LATERAL CONTROL & HINGE MOMENT OF SPOILER-SLOT-DEFLECTOR ON SWEPTBACK WING AT SUBSONIC SPEED
NASA-TN-D-2037 N64-10617 01-02

BOUNDARY CONDITION EFFECT ON THE STABILITY OF CYLINDERS SUBJECT TO LATERAL AND AXIAL PRESSURES
LMSC-6-90-63-91 N64-11247 02-34

PROVISION OF ADEQUATE LATERAL CONTROL POWER IN LANDING APPROACH
AGARD-419 N64-11950 03-04

LATERAL-DIRECTIONAL CONTROL CROSS-COUPLING EFFECTS AND HANDLING QUALITIES OF V/STOL AIRCRAFT
NRC-7778 N64-14203 06-22

FLIGHT CONTROL SYSTEMS FOR REENTRY GLIDER LATERAL CONTROL
ASD-TDR-62-699 N64-17443 09-22

FLIGHT MEASUREMENTS OF SIDESTEP MANEUVER TO CORRECT LATERAL ERROR DURING LANDING
ARC-R&M-3347 N64-18152 10-10

LONGITUDINAL AND LATERAL DIRECTION FLYING QUALITY OF PILOTED REENTRY VEHICLES
TE-1516-F-1 N64-18640 11-30

LATERAL FORCE EXPERIMENT STUDIES ON THRUST CONTROL OF SOLID FUEL PROPULSION ROCKETS
NASA-TT-F-9046 N64-31563 23-27

PRECISE LATERAL-ADJUSTMENT INSTRUMENT SUPPORT N64-33609 24-17

LATERAL STABILITY
ESTIMATION OF USUAL LONGITUDINAL AND LATERAL STABILITY DERIVATIVES OF AIRCRAFT
ARC-CP-664 N64-10402 01-02

ATTITUDE STABILITY OF ARTICULATED GRAVITY-ORIENTED SATELLITES - LATERAL STABILITY
UTIA-93 N64-13112 04-32

LONGITUDINAL- AND LATERAL-STABILITY TESTS OF DELTA-WING MODEL IN TRANSONIC WIND TUNNEL
ARC-CP-656 N64-13362 04-04

SOLUTIONS FOR LATERAL STABILITY OF CARGO TRAILER TRAINS
AR-467-A N64-14976 06-10

LOW SPEED WIND TUNNEL DETERMINATION OF DYNAMIC LATERAL STABILITY DERIVATIVES FOR DELTA WING AIRCRAFT
ARL/A-214 N64-22132 15-04

SUPERSONIC LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS OF SWEPT WING-BODY-TAIL MODEL
NASA-TN-D-2376 N64-26610 18-02

LATEX
TAIL SECTION DESIGN, DEVELOPMENT OF NEOPRENE AND NATURAL LATEX COMPOUNDS, AND ENVIRONMENTAL TESTING FOR DUAL PURPOSE FAST RISE BALLOONS
AD-602760 N64-29710 21-04

LATITUDE
ESTIMATION OF F-2 LAYER DISTURBANCE IN HIGH LATITUDES - QUIET DAY IONIZATION & DEVIATION OF CRITICAL FREQUENCIES
JPRS-17835 N64-10489 01-12

WAVE MEASUREMENTS OF HYDROMAGNETIC EMISSIONS AT LOW GEOMAGNETIC LATITUDE
AD-437332 N64-20317 13-12

LATITUDINAL AND PLANETARY VARIATIONS OF HYDROXYL EMISSION N64-21879 15-12

CHARGE AND ENERGY SPECTRA OF PRIMARY AND SECONDARY COSMIC RAYS WITH CHARGE LOWER THAN 3 AT 46 DEGREE GEOMAGNETIC LATITUDE N64-25824 17-28

MEASUREMENT OF COSMIC RAY NEUTRON FLUX AT 45-DEG GEOMAGNETIC LATITUDE
AFCRL-64-487 N64-26178 18-28

TOPOGRAPHY - GEOCENTRIC LATITUDE OF SPACE POINT
JPRS-25771 N64-26606 18-12

LATITUDINAL VARIATION OF ATMOSPHERIC DENSITY DISTRIBUTION
NASA-RP-334 N64-31212 22-12

LATITUDINAL DISTRIBUTION AND VARIATION OF ATMOSPHERIC ELECTRICITY ELEMENTS N64-31770 23-21

HIGH LATITUDE IONOSPHERIC CURRENT PATTERNS
AFCRL-64-637 N64-31994 23-12

LATTICE
SA CRYSTAL LATTICE
CF GRID
CF MATRIX
LATTICE VIBRATION SPECTRUM OF VANADIUM
EUR-366.E N64-10252 01-23

HEAT RESISTANT COMPOUNDS OF TRANSITION

ELEMENTS - LATTICE STRUCTURE, X RAY SPECTROSCOPY, PHYSICAL PROPERTIES OF REFRACTORY MATERIAL
JPRS-17446 N64-10669 02-01

UNIFORM LATTICE ANALYSIS OF SLIGHTLY ENRICHED URANIUM DIOXIDE FUEL RODS
BAW-1273 N64-10987 02-23

COMPUTER PROGRAM FOR EPITHERMAL NEUTRON CAPTURE PROBABILITY FOR INFINITE PLANE LATTICES
UCRL-7023 N64-11094 02-23

SMALL LATTICE REQUIRING LESS FUEL THAN EQUIVALENT CRITICAL OR EXPONENTIAL EXPERIMENTS FOR INFINITE-MEDIUM LATTICE PARAMETER MEASUREMENTS - REACTORS
BAW-1283 N64-11281 02-23

HEAVY-WATER-MODERATED NATURAL URANIUM ROD LATTICE PARAMETERS
DP-777 N64-12117 03-23

FREQUENCY DISTRIBUTION IN BIMETALLIC ALLOY CRYSTALS - LATTICE VIBRATION
RSIC-82 N64-12205 03-18

HIGH ORDER CORRECTIONS TO LATTICE THERMO-CONDUCTIVITY
USNRDL-TR-675 N64-12598 04-13

LATTICE HEAT CAPACITY AND THERMODYNAMIC PROPERTIES OF SOLID HYDROGEN AT SMALL MOLAR VOLUME
UCRL-10757 N64-13212 04-19

PHASE DIAGRAM AND LATTICE STRUCTURE OF URANIUM - THORIUM ALLOYS
AEC-TR-5834 N64-13908 05-18

CRYSTAL STRUCTURE & LATTICE ENERGY OF POLYPEPTIDE AND POLYETHYLENE POLYMERS - HELICAL MACROMOLECULES
AD-425881 N64-14031 05-23

CORRELATION FUNCTION CALCULATION OF LATTICE THERMOCONDUCTIVITY BY LIOUVILLE OPERATOR METHOD
USNRDL-TR-694 N64-15076 07-13

LATTICE MEASUREMENTS BY VEGARD LAW PLOTS OF RUTHENIUM-MOLYBDENUM, RUTHENIUM-TUNGSTEN, AND RUTHENIUM-TANTALUM ALLOYS
AD-429068 N64-15884 07-25

FREE ENERGY OF SPIN SYSTEM IN REGULAR LATTICES
AD-429544 N64-15954 07-23

DISLOCATION THEORY OF BRITTLE FRACTURE IN METALS WITH BODY-CENTERED CUBIC AND HEXAGONAL LATTICES
N64-16124 08-25

ELECTRON SPIN RESONANCE, FREQUENCY SHIFTS, AND SPIN LATTICE RELAXATION OF SOLIDS AT LOW TEMPERATURES
AD-432140 N64-16847 08-25

INFLUENCE OF THERMAL VIBRATION OF ATOMS ON ELECTRON SPECTRUM OF METALS & ALLOYS
N64-17054 09-25

LATTICE-ORDERED SEMIGROUPS, GRAPHS, AND AUTOMATA - W-NETWORKS
MRC-451 N64-18035 10-20

LATTICE AXIONS FOR BOOLEAN ALGEBRAS
N64-19232 11-20

EXTENSION OF GREEN FUNCTION METHOD TO STUDY OF FERROMAGNETIC CURIE TEMPERATURE IN CUBIC LATTICES WITH NEXT NEAREST NEIGHBOR INTERACTION
TR-13 N64-20146 13-25

CALCULATION OF DEUTERIUM OXIDE MODERATED ORGANIC COOLED NATURAL URANIUM LATTICES
EUR-597.E N64-20879 14-23

INTEGRAL EQUATION TRANSFORM ANALYSIS OF ONE-DIMENSIONAL WAVE MOTIONS IN POINT LATTICES
AD-439609 N64-20906 14-25

CONTINUUM FIELD REPRESENTATIONS FOR LATTICE VIBRATION
AD-441306 N64-27747 19-25

GRAIN BOUNDARY AND LATTICE DIFFUSION OF CHROMIUM IN ZIRCONIUM
AEET/CD/22 N64-28658 20-07

SIZE AND SHAPE EFFECTS ON LATTICE VIBRATION SPECTRUM AND RESULTING FAR INFRARED ABSORPTION
N64-29483 21-23

LATTICE VIBRATIONS STUDY THROUGH MEASUREMENTS OF TEMPERATURE DEPENDENCES OF X-RAY BRAGG INTENSITIES
TR-3 N64-32212 23-25

LATTICE AND THERMAL PROPERTIES OF SOLIDIFIED INERT GASES
AD-448620 N64-33661 24-25

LATTICE IMPERFECTION
S CRYSTAL STRUCTURE DEFECT
S INTERSTITIAL ATOM

LAUE DIFFRACTION
CF SEMICONDUCTOR
NEW POLYTYPES OF SILICON CARBIDE USING LAUE METHOD OF X-RAY ANALYSIS N64-23007 16-07

LAUNCH
METEOROLOGICAL DATA FOR LAUNCHING OF NIKE-APACHE SPEEDBALL II
ERDA-135 N64-25517 17-21

DESCRIPTION, LAUNCHING TECHNIQUES, SCIENTIFIC EXPERIMENTS, TRAJECTORY, AND ORBIT OF SAN MARCO SATELLITE N64-26281 18-32

CHECKOUT AND LAUNCH PLAN COVERING TYPICAL OPERATIONS FOR ALL SPACE FLIGHTS
NASA-CR-56671 N64-27377 19-27

COMPUTATION OF OPTIMUM PAYLOADS & TRAJECTORIES AND FORMULATION OF GUIDANCE LAWS FOR SATELLITE LAUNCHERS
RAE-TN-SPACE-32 N64-27416 19-20

MICROMETEOROLOGICAL RESEARCH PROJECT TO AID IN CHEMICAL-BACTERIOLOGICAL-RADIOLOGICAL WARFARE, ROCKET LAUNCHING, AND COMBAT SURVEILLANCE SENSORS
ERDAA-MET-4-64 N64-27794 19-21

METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE ROCKET
ERDA-136 N64-28702 20-21

METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE ROCKET
ERDA-139 N64-28704 20-21

INSTRUMENTATION, TEST PROGRAMS, FACILITY STATUS, AND CONE LAUNCH DEVELOPMENT PROGRAM
BSR-984 N64-30020 21-15

DIGITAL COMPUTER ANALYSIS OF LAUNCH DYNAMICS OF FLEXIBLE ROCKET VEHICLE
NASA-CR-60021 N64-33619 24-10

LAUNCH COMPLEX
COST ESTIMATE, LAUNCH COMPLEX 39 PNEUMATIC SYSTEM
NASA-TM-X-54645 N64-16706 08-10

GROUND SUPPORT EQUIPMENT FOR SATURN V VEHICLE LAUNCH COMPLEX
NASA-TM-X-51767 N64-24122 16-30

LAUNCH TIME
LAUNCH WINDOWS FOR ORBITAL MISSIONS
SSD-TDR-64-31 N64-22320 15-29

RANGER BLOCK III LAUNCH CONSTRAINTS FOR EACH DAY OF LAUNCH PERIOD - LAUNCH WINDOW DESIGN
NASA-CR-56799 N64-29532 21-31

LAUNCH VEHICLE
SA ATLAS AGENA B LAUNCH VEHICLE
SA ATLAS CENTAUR LAUNCH VEHICLE
SA BOOSTER
SA DELTA LAUNCH VEHICLE
SA DIAMANT LAUNCH VEHICLE
SA ELDO LAUNCH VEHICLE
SA LITTLE JOE II LAUNCH VEHICLE
SA NOVA LAUNCH VEHICLE

SA SATURN I /SA-1/ LAUNCH VEHICLE
SA SATURN I /SA-2/ LAUNCH VEHICLE
SA SATURN I /SA-3/ LAUNCH VEHICLE
SA SATURN I /SA-4/ LAUNCH VEHICLE
SA SATURN I /SA-5/ LAUNCH VEHICLE
SA SATURN I /SA-6/ LAUNCH VEHICLE
SA SATURN I /SA-7/ LAUNCH VEHICLE
SA SATURN I LAUNCH VEHICLE
SA SATURN V LAUNCH VEHICLE
SA SATURN LAUNCH VEHICLE
SA SCOUT LAUNCH VEHICLE
SA THOR DELTA LAUNCH VEHICLE
SA THOR LAUNCH VEHICLE
SA TITAN LAUNCH VEHICLE
WIND TUNNEL INVESTIGATION OF GROUND WIND LOADS ON AXISYMMETRIC LAUNCH VEHICLES
NASA-TN-D-1893 N64-10932 02-03

EVALUATION OF MARAGING STEEL PLATE FOR LAUNCH VEHICLE USE
NASA-CR-52673 N64-11100 02-18

RUSSIAN DESYATKA BOMBER FLYING ROCKET LAUNCHING MISSION IN STRATOSPHERE
FTD-TT-63-321/1&2 N64-12085 03-12

MARAGING STEEL FOR SPACE LAUNCH VEHICLE USE
NASA-CR-52412 N64-12164 03-18

PARAMETRIC ANALYSIS OF LAUNCH VEHICLE RECOVERY TRADE-OFFS
TDR-269/4515-10/-2 N64-12582 04-30

LAUNCH VEHICLE PERFORMANCE REQUIREMENTS FOR RENDEZVOUS WITH SATELLITES IN CIRCULAR ORBIT
SSD-TDR-63-320 N64-16651 08-29

OPEN LOOP OPTIMAL CONTROL PROBLEM FOR PLANTS REPRESENTED BY LINEAR RECURRENCE EQUATIONS - ROCKET BOOSTER CONTROL
NASA-CR-53115 N64-16759 08-06

OPTIMAL CONTROL PROBLEM FOR LINEAR SYSTEMS - ROCKET BOOSTER CONTROL
NASA-CR-53110 N64-16761 08-06

LAUNCHING OF ELECTRON SPACE SYSTEMS FOR EARTH RADIATION BELT STUDY
JPRS-23810 N64-17554 09-32

MINIMUM WEIGHT ANALYSIS OF STIFFENED CYLINDERS UNDER AXIAL COMPRESSION FOR LAUNCH VEHICLES
NASA-CR-53317 N64-17763 09-34

MECHANICAL AND METALLURGICAL PROPERTIES OF MARAGING STEEL PLATES FOR SPACE LAUNCH VEHICLES
NASA-CR-53416 N64-18106 10-18

STRUCTURAL DESIGN CRITERIA FOR NONRECOVERABLE ROCKET LAUNCH VEHICLES
SSD-TDR-63-88 N64-18277 10-31

BUFFETING OF LAUNCH VEHICLES N64-19365 12-30

GROUND WIND LOADS IN LAUNCH VEHICLES
N64-19366 12-30

DYNAMIC PROBLEMS OF LAUNCH VEHICLES AND SPACECRAFT RELIABILITY N64-19373 12-30

CORRELATION OF LAUNCH VEHICLE WIND TUNNEL AERODYNAMIC NOISE WITH SPACECRAFT FLIGHT VIBRATION DATA
NASA-CR-53922 N64-19898 12-23

EFFECTS OF ATMOSPHERIC DATA ERRORS ON STRUCTURAL DESIGN LOADS OF LAUNCH VEHICLES
SSD-TDR-63-383 N64-20463 13-30

GROUND WIND LOADS IN LAUNCH VEHICLES
NASA-TM-X-54024 N64-20550 13-30

MATERIALS RESEARCH IN LAUNCH VEHICLE PROGRAMS - BIBLIOGRAPHY
NASA-TM-X-53006 N64-20593 13-01

TECHNIQUES FOR MEASURING TEMPERATURE, PRESSURE, DENSITY, AND WIND VELOCITY ONBOARD LARGE LAUNCH VEHICLE IN SPACE ENVIRONMENT N64-24906 17-21

FUNCTIONAL RELATIONSHIP BETWEEN PERFORMANCE AND COST OF LAUNCH VEHICLES
AIAA PAPER-64-276 N64-24962 17-31

HERMETICALLY SEALED LIGHTWEIGHT FOAM INSULATION FOR LIQUID HYDROGEN TANKS OF LAUNCH VEHICLES
N64-25048 17-30

EARTH-TO-ORBIT TRANSPORTATION ECONOMICS BASED ON AVAILABLE AND APPROVED LAUNCH VEHICLES OF NATIONAL BOOSTER PROGRAM
AIAA PAPER-64-278 N64-25071 17-30

LAUNCH VEHICLE TECHNOLOGY SUMMARY - STRUCTURE, GUIDANCE, ENGINES, PROPELLANTS, TESTING, CHECKOUT, AND LAUNCH OPERATIONS
AIAA PAPER-64-527 N64-25894 18-31

OPERATIONS RESEARCH FOR RANGER BLOCK III PROJECT SYSTEMS
NASA-CR-56667 N64-26355 18-30

FEASIBILITY OF IMPROVING LAUNCH VEHICLE BY USING AIR AUGMENTED ROCKET PROPULSION SYSTEM
NASA-CR-56890 N64-27277 19-27

NIMBUS SATELLITE - SPACECRAFT, SUBSYSTEMS, AND LAUNCH VEHICLE N64-27504 19-32

SYNCOM C SATELLITE AND THRUST AUGMENTED DELTA /TAD/ LAUNCH VEHICLE N64-27757 19-32

RANGER VII LUNAR PROBE - FLIGHT CHRONOLOGY, LAUNCH VEHICLE, SPACECRAFT, AND PHOTOGRAPHY
N64-28342 20-32

DYNAMIC MODELS FOR STUDY OF LAUNCH VEHICLE BUFFETING AT TRANSONIC SPEEDS AND GROUND-WIND LOADS N64-29262 21-33

HIGH FREQUENCY RESISTANCE WELDING PROCESS FOR SPACE VEHICLE AND LAUNCH VEHICLE MATERIALS
NASA-CR-58562 N64-29566 21-17

EPHEMERIS CONTAINING OBSERVATIONS OF SATELLITES & LAUNCH VEHICLES N64-30860 22-08

PRECISION OPTICAL TRACKING SYSTEM FOR ADVANCED LAUNCH VEHICLES
NASA-TM-X-53076 N64-31548 23-15

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINE, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-19 N64-31577 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-20 N64-31578 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-21 N64-31579 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-22 N64-31580 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT SYSTEM, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-23 N64-31581 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT SYSTEM, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-24 N64-31582 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT SYSTEM, ROCKET ENGINES, AND PILOT SAFETY
REPT.-393-01M-26 N64-31583 23-27

GEMINI LAUNCH VEHICLE - RELIABILITY AND SUMMARY DATA ON YLR87-AJ-5 AND YLR91-AJ-5 ROCKET ENGINE
REPT.-393-3.4-M-12 N64-31584 23-27

SLOW MALFUNCTION DETECTION METHODS IN GEMINI LAUNCH VEHICLE DURING FLIGHT
LV-307A N64-31676 23-10

TRANSONIC BUFFET WIND TUNNEL INVESTIGATION ON SCALE MODEL OF FORWARD PORTION OF GEMINI LAUNCH VEHICLE
LV-279-II N64-31835 23-33

SLOW MALFUNCTION ERROR ANALYSIS OF TRAJECTORY FOR GEMINI LAUNCH VEHICLE
LV-306 N64-31837 23-10

SLOW MALFUNCTION MONITORING OF GEMINI LAUNCH VEHICLE
LV-307 N64-31838 23-10

ENGINEERING EVALUATION TESTS OF GEMINI LAUNCH VEHICLE INTERIM PREVALVES
LV-330 N64-31839 23-17

MINIMUM FUEL AND OXIDIZER TANK ULLAGES FOR GEMINI LAUNCH VEHICLE
REPT.-0788-MU-1 N64-31887 23-27

WIND PROFILE DESIGN CRITERIA FOR AEROSPACE LAUNCH VEHICLES
AD-448623 N64-32545 23-21

CORRELATION BETWEEN WIND TUNNEL AERODYNAMIC NOISE DATA FOR LAUNCH VEHICLE AND IN-FLIGHT VIBRATION DATA
NASA-CR-58776 N64-33158 24-31

INTERCELLULAR FLUID MOBILITY WITHIN HONEYCOMB REINFORCED COMMON BULKHEAD FOR SATURN S- IV LAUNCH VEHICLE - BULKHEAD PURGING
NASA-TM-X-53094 N64-33185 24-11

ADVANCED ELECTRONIC CONCEPTS IN LAUNCH VEHICLE OPERATIONS - LIGHT BEAMS AS INFORMATION CARRIERS
NASA-TM-X-54747 N64-33225 24-10

NIKE-CAJUN VEHICLE TO CARRY PAYLOAD TO APOGEES OF 50 NAUTICAL MILES - TRUMP PROJECT
APGC-TDR-64-38 N64-33727 24-29

LAUNCHING
SA INFRARED TRACKING
SA SATELLITE LAUNCHING
CF CATAPULT
SHOCK FRONT VARIATION IN TIME FOR HIGH SPEED IMPACT INTO WATER N64-13528 04-23

SHOCK FRONT VARIATION IN TIME FOR HIGH SPEED IMPACT INTO WATER N64-13528 04-23

BREADBOARD OF INSTRUMENTS FOR ATTITUDE SENSING AND ORBITAL LAUNCH ERROR ANALYSIS
NASA-CR-55732 N64-15872 07-22

NASA SCHEDULE OF FIRE PROJECT LAUNCHINGS N64-18112 10-30

AUTOMATIC MISSILE STABILIZATION TRAJECTORY CONTROL AT LAUNCHING N64-18484 10-30

LUNAR MISSION PERFORMANCE EVALUATION PROCEDURE FOR ORBIT-LAUNCHED VEHICLES WITH NUCLEAR PROPULSION SYSTEM
NASA-TN-D-2157 N64-18955 11-30

CORRECTION OF IN-PLANE INJECTION DELAY CAUSED BY ORBITAL PLANE REGRESSION IN LUNAR LAUNCH FROM ORBITING SPACE STATION
NASA-RP-160 N64-19032 11-29

AERODYNAMIC DESIGN AND LAUNCH CONCEPTS FOR HYPERSONIC AIRCRAFT
FTD-TT-62-1304/1 N64-19421 12-04

AIR LAUNCHED HIGH ALTITUDE HYPERSONIC AIRCRAFT N64-19423 12-04

ANNOTATED BIBLIOGRAPHY ON SILO AND SEA LAUNCH DYNAMICS
SB-63-67 N64-20896 14-10

TECHNIQUES AND EQUIPMENT FOR AIR LAUNCHED ROCKET SOUNDING SYSTEM
AFCRL-64-127 N64-21445 14-32

AIR LAUNCHED ROCKETSONDE COMPATIBILITY WITH WB-47 AIRCRAFT AND RADIOSONDE RECEIVER FOR WEATHER FORECASTING
AFCRL-64-59 N64-22307 15-32

LAUNCH WINDOWS FOR ORBITAL MISSIONS
SSD-TDR-64-31 N64-22320 15-29

SOUND MEASUREMENTS DURING LAUNCH OF SATURN I /SA-2/ VEHICLE
NASA-TM-X-51699 N64-24000 16-30

IBM 7044 COMPUTER PROGRAM IN FORTRAN FOR DETERMINING LAUNCH ANGLES FOR UNGUIDED ROCKETS
ERDA-148 N64-24344 17-20

CHEMICAL REACTIONS AND IONIZATION PHENOMENA DURING LAUNCH AND REENTRY - BIBLIOGRAPHY
BMI-197-10-2 N64-25110 17-23

EPHEMERIDES EVALUATION OF SAN MARCO SATELLITE FOR ORBITAL LAUNCHING FROM WALLOPS ISLAND N64-26835 18-32

COMPARISON OF GROUND TEST AND ORBITAL LAUNCH RESULTS FOR EXPLORER IX AND EXPLORER XIX SATELLITES
NASA-TN-D-2466 N64-28233 20-32

GUIDED MISSILE LAUNCHING ZONES FOR SHIPBOARD MISSILE LAUNCHING SYSTEMS
NWL-1928 N64-30741 22-10

EUROPEAN SPACE PROGRAM - ENVIRONMENTAL CONDITIONS OF SPACE VEHICLE FROM MANUFACTURE TO ORBITAL LAUNCH - DIAMANT AND ELDO LAUNCHERS
MEMO-2 N64-31350 23-10

METEOROLOGICAL DATA FOR LAUNCHING AND BALLISTIC STUDIES OF AEROBEE AD 3.355
ERDA-150 N64-31600 23-21

METEOROLOGICAL DATA FOR LAUNCHING OF ATHENA ROCKET
ERDA-153 N64-32312 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING AEROBEE NB 3.147 ROCKET
ERDA-154 N64-32313 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING NIKE-APACHE ROCKET
ERDA-155 N64-32314 23-21

WIND DATA FOR NIKE-APACHE LAUNCHINGS AND BALLISTIC STUDIES
ERDA-162 N64-32315 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING NIKE-APACHE SPEEDBALL II ROCKET
ERDA-163 N64-32316 23-21

WIND DATA FOR ROCKET LAUNCHING & BALLISTIC STUDIES
ERDA-164 N64-32317 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING AEROBEE KP 3.6 ROCKET
ERDA-166 N64-32318 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING ATHENA ROCKET
ERDA-167 N64-32319 23-21

INTERPOLATION TECHNIQUE FOR COMPUTING LAUNCH ANGLES FOR ATHENA ROCKET
ERDA-187 N64-32320 23-21

ESTIMATION PARAMETERS TO PREDICT ERRORS IN TRAJECTORY OF SUBMARINE-LAUNCHED BALLISTIC MISSILE
RM-3848-ARPA N64-32598 23-22

DESIGN OF MINIMUM WEIGHT SABOT FOR BALLISTIC

LAUNCHING OF SPHERES
CARDE-TR-490/64 N64-33487 24-10

LAUNCHING OF AERODYNAMICALLY STABLE CONES BY LIGHT GAS GUN
CARDE-TN-1604/64 N64-33488 24-10

MANUAL ON LAUNCHING OF EPE-D SPACECRAFT
NASA-TR-X-55103 N64-33568 24-10

LAUNCHING DEVICE
LAUNCH CONTROL EQUIPMENT FOR X-20 AIRCRAFT
D2-81073 N64-22260 15-31

TITAN III ICBM INTEGRATED ELECTRONIC CHECKOUT AND LAUNCH CONTROL SYSTEM
SSD-TDR-64-35 N64-22378 15-10

SEMIMOBILE DRYDOCK LAUNCH SYSTEMS FOR SPACE MISSIONS
LMSC-8086121-1 N64-26252 18-10

LIGHT GAS LAUNCHER WITH TWO-STAGE GUN USING TWO PISTONS IN PUMPTUBE
NOLTR-64-96 N64-29979 21-10

LAUNCHING FACILITY
PRELAUNCH TESTING AND TEST FACILITIES AT CAPE CANAVERAL FOR LAUNCHING OF TELSTAR SATELLITE
N64-10893 02-31

ACOUSTICAL VIBRATION DYNAMIC ENVIRONMENT FOR LARGE BOOSTER LAUNCH FACILITY N64-18543 11-10

ANNOTATED BIBLIOGRAPHY ON SILO AND SEA LAUNCH DYNAMICS
SB-63-67 N64-20896 14-10

SOLID PROPELLANT ROCKET EXHAUST EFFECTS ON LAUNCH FACILITIES
NASA-CR-58074 N64-27877 20-26

DYNAMIC RESPONSE OF SANTA RITA LAUNCH PLATFORM AND EFFECT ON SCOUT GUIDANCE SYSTEM ACCURACY
N64-28001 20-22

TRANSIENT PRESSURES IN DUCTED UNDERGROUND LAUNCHER DUE TO ROCKET SHUTDOWN DURING CAPTIVE TEST OR ABORT
REPT.-6110-9487-RU-000 N64-28793 20-33

SPACE VEHICLE LAUNCH OPERATIONS - RESEARCH, COMMUNICATIONS, AND COMPUTER PROGRAMMING
NASA-TM-X-51925 N64-29523 21-10

LAUNCH FACILITIES FOR SATURN V VEHICLE
N64-30334 22-10

LAW
SA SPACE LAW
KIRCHOFF APPROXIMATION FOR ELECTROMAGNETIC WAVE SCATTERING ON UNEVEN SURFACES OF SEMICONDUCTORS
N64-11002 02-08

DIMENSIONAL ANALYSIS OF METHODS FOR SCALING LINEAR DIMENSIONS OF CRATERS N64-12409 04-23

SIMILARITY CONDITIONS OF VACUUM ELECTRONIC SYSTEMS APPLIED TO SIMULATION OF HIGH-POWER ELECTRONIC DEVICES N64-12727 04-09

ATOMIC ENERGY IN SPACE - LEGISLATIVE PROBLEMS ASSOCIATED WITH RESEARCH & DEVELOPMENT
N64-14554 06-01

HYPERSONIC AERODYNAMIC CHARACTERISTICS OF LIFTING BODIES BY NEWTON PRESSURE LAW
AEDC-TDR-64-25 N64-16878 08-02

SIMILITUDE REQUIREMENTS AND SCALING LAWS FOR TRANSONIC BUFFETING N64-29253 21-33

AEROTHERMOELASTIC PROBLEMS WITH SCALING LAWS IN DYNAMIC MODEL SIMULATION OF REENTRY GLIDE VEHICLES
N64-29271 21-33

SNELL LAW AND GEOMETRICAL OPTICS USED TO CALCULATE ERRORS IN RADAR POSITION OBSERVATIONS DUE TO ATMOSPHERIC REFRACTION
USAERDAA-MET-7-64 N64-29550 21-08

NEWTON-BUSEMANN PRESSURE LAW FROM EQUATIONS GOVERNING UNSTEADY HYPERSONIC FLOW OVER STATIONARY BODIES
TDR-269/4230-30/-6 N64-29821 21-11

GENERALIZATION OF RESTRICTED THREE-BODY PROBLEM INCLUDING MOTION OF EARTH AND MOON ON COPLANAR KEPLERIAN ELLIPSES
NASA-TM-X-53088 N64-31725 23-05

SOLID PROPELLANT ROCKET NOZZLE TESTING - SIMILITUDE OBSERVATIONS N64-32693 24-17

LAYER
SA BOUNDARY LAYER
SA D LAYER
SA E LAYER
SA SHOCK LAYER
SA SURFACE LAYER
CF ZONE
MAGNETOTELLURIC PROFILING OF UPPER LAYERS OF EARTHS CRUST IN POLISH-LITHUANIAN DEPRESSION - GEOLOGICAL SURVEY N64-11486 03-12

LAYER METHOD FOR HAIL FORECASTING
N64-11842 03-21

LANDAU THEORY OF ENERGY STRAGGLING IN SERIES OF ABSORBING LAYERS
AFCRL-63-558 N64-13771 04-23

TRANSITION BOUNDARY LAYER SEPARATING UNIFORM MAXWELLIAN PLASMA FROM ITS CONFINING MAGNETIC FIELD
AFCRL-63-376 N64-14328 06-24

SOLUTION FOR PROPAGATION OF PLANE HARMONIC ELECTROMAGNETIC WAVES ACROSS STRATIFIED PLASMA LAYER N64-15255 07-24

FINE STRUCTURE OF IONOSPHERIC F-LAYER
FTD-TT-62-1388/1&3&4 N64-16347 08-12

ANGULAR DEPENDENCE OF INTENSITY OF LIGHT AND X-RAY SCATTERING BY BIOPOLAR MACROMOLECULE IN SPIRAL-TO-BALL TRANSITION REGION N64-19438 12-07

THEORIES ON MOVEMENT OF IONIZATION IN IONOSPHERIC F-LAYER N64-20763 14-12

TABULATIONS OF IONOSPHERIC DATA ON E AND F LAYERS
CPD-1963/4/S/ N64-22255 15-12

FARADAY ROTATION IN AURORAL ZONE F-REGION
AFCRL-64-266 N64-25368 17-12

RECOMBINATION AND TRANSPORT IN NIGHTTIME F LAYER OF IONOSPHERE
NASA-CR-56827 N64-25565 17-12

GEOMAGNETIC CONTROL OF ELECTRON DENSITY IN F REGION OF IONOSPHERE
NASA-RP-263 N64-26001 18-12

TURBULENT BOUNDARY LAYER OF GAS - THERMAL BARRIER AT SOLID SURFACE
FTD-TT-64-332/1&2&4 N64-26932 18-11

ELECTRON DENSITY AND COLLISION FREQUENCY IN D LAYER OF IONOSPHERE USING ROCKET MEASUREMENTS OF DIFFERENTIAL ABSORPTION AND FARADAY ROTATION
NASA-CR-56939 N64-29197 21-12

REFRACTED ARRIVAL FROM HIGH SPEED LAYER EMBEDDED IN INFINITE MEDIUM INVESTIGATED BY HIGH FREQUENCY GEOMETRIC RAY THEORY
AFCRL-64-808 N64-30003 21-23

COLORED STRATIFICATION OBSERVATIONS - EVOLUTION OF LIQUID CRYSTALS OF SODIUM OLEATE IN SOAP FILM
E-T-F-63-7 N64-31680 23-23

EFFECTS OF THERMAL STRATIFICATION & WIND VELOCITY ON WIND PROFILE IN GROUND LAYER
E-T-CH-63-6 N64-32131 23-21

ELECTRIC AND CHEMICAL PROPERTIES OF BARRIER LAYER

METAL OXIDES, X-RAY ANALYSIS OF STEEL CRYSTAL STRUCTURES, AND SPECTRAL ANALYSIS OF ALLOYS
JPRS-26774 N64-32842 24-18

ELECTROCHEMICAL OXIDATION OF BARRIER LAYER METALS
N64-32843 24-07

ELECTRIC PROPERTIES OF BARRIER LAYER OXIDE FILMS AND MECHANISM OF ELECTROLYTIC RECTIFICATION
N64-32844 24-25

TEMPERATURE STRATIFICATION IN LIQUIDS CONTAINED IN HEATED VESSELS - STRATIFIED LAYER FLOW MODEL
N64-32882 24-13

DRIFT EFFECTS ON PARAMETERS OF UPPER F LAYER UNDER DAYTIME EQUILIBRIUM CONDITIONS
NASA-CR-58941 N64-33093 24-12

GRADIENTS OF SCALE HEIGHTS IN ISOTHERMAL LAYER OF HETEROSPHERE N64-33260 24-21

UNCONSTRAINED LAYER DAMPING TREATMENTS ON VIBRATING PLATES - EFFECT OF CONCENTRATED TREATMENT IN REGIONS OF HIGHEST BENDING MOMENT
ML-TDR-64-51 N64-33911 24-33

LEACHING
AMMONIACAL-AMMONIUM CARBONATE LEACHING OF MANGANIFEROUS MATERIALS
BM-RI-6368 N64-15797 07-07

CHEMISTRY OF LEACHING COPPER SULFIDE MINERALS WITH AUTOTROPIC BACTERIA - MINERALOGY
BM-RI-6423 N64-18987 11-16

ALKALINE LEACHING PROCESS FOR RECOVERING URANIUM FROM CALCAREOUS CARNOTITE ORE
BM-RI-6409 N64-19996 12-17

RESISTANCE OF VITREOUS ENAMELS /CERAMIC COATINGS/ TO CORROSION AND LEACHING BY HYDROCHLORIC ACID
N64-24273 17-19

ARSENIC BEHAVIOR IN PROCESS OF LEACHING ZINC CINDERS IN SULFURIC ACID SOLUTION
N64-31414 23-07

EFFECT OF ULTRASOUND ON PROCESS OF LEACHING SLIGHTLY SOLUBLE RARE METAL COMPOUNDS
N64-31417 23-07

LEAD
ENERGY OF PACKING DEFECTS OF LEAD IN DEFORMATION OF FACE-CENTERED CUBIC METAL CRYSTALS
N64-10748 02-18

WELDING OF VARIOUS GRANULATED METALLIC POWDERS - TUNGSTEN, NICKEL, TIN, LEAD, TITANIUM, ALUMINUM AND FERROALLOYS N64-10767 02-12

COMPRESSION AND DEFORMATION OF LEAD SPHERES IN UNIRAM TETRAHEDRAL ULTRAHIGH PRESSURE DEVICE
ERR-FW-211 N64-15710 07-23

FRICTION MEASUREMENTS OF SOLID SURFACES COVERED WITH SOLID FILMS OF LEAD, NICKEL, AND CHROMIUM
RTD-TDR-63-4272, PT. V N64-17513 09-18

FERMI SURFACE OF LEAD
IS-762 N64-17835 09-23

COMMERCIALIZATION OF LEAD & ZINC RESEARCH RESULTS AND TECHNICAL DIGEST OF LEAD RESEARCH
N64-19019 11-18

ULTRASONIC ATTENUATION IN SUPERCONDUCTING LEAD
N64-20694 13-25

DETERMINATION OF LEAD CONTENT IN IRON METEORITES
N64-25062 17-05

ENERGY PARTITIONING IN HIGH VELOCITY IMPACT IN LEAD AND COPPER
UU-I4 N64-25345 17-23

ENERGY PARTITIONING IN HIGH VELOCITY-IMPACT CRATERING IN LEAD N64-25346 17-23

VISIBLE ABSORPTION SPECTRA OF CADMIUM IN CADMIUM HALIDES AND LEAD CHLORIDE AND IN LEAD BROMIDE
NASA-RP-247 N64-26074 18-19

THERMODYNAMIC PROPERTIES OF MOLTEN LEAD SILICATES
N64-31411 23-07

TEMPERATURE INFLUENCE ON RATE AT WHICH LEAD AGGLOMERATES ARE REDUCED BY HYDROGEN AND CARBON MONOXIDE N64-31412 23-07

ROLE OF ANTIMONY DURING EXTRACTION OF FINE BISMUTH FROM LEAD N64-31413 23-07

EFFECT OF WELDABLE LEAD MATERIALS ON PERFORMANCE OF ELECTRONIC COMPONENTS
AD-602047 N64-32411 23-17

DISTRIBUTION OF RADIOACTIVE CALCIUM AND ITS EXCRETION FROM HEALTHY AND LEAD-POISONED ANIMALS
JPRS-26888 N64-33854 24-16

LEAD ALLOY
ZIRCONIUM INHIBITOR FOR RETARDING CORROSION OF LOW ALLOY STEELS EXPOSED TO LIQUID BISMUTH & LEAD ALLOYS
BNL-811/T-313/ N64-14427 06-18

EFFECTS OF LIQUID-HELIUM-TEMPERATURE PLASTIC DEFORMATION ON SUPERCONDUCTIVITY TRANSITIONS IN LEAD-INDIUM ALLOYS
NASA-CR-58135 N64-26594 18-23

LEAD COMPOUND
PRECIPITATION AND CLOUD DISPERSAL BY ACTION OF AQUEOUS SOLUTIONS OF LEAD IODIDE ON SUPERCOOLED CLOUDS N64-11840 03-21

ELECTRONIC PROPERTIES OF LEAD AND TIN TELLURIDES FOR THERMOELECTRIC CONVERTERS
AFCRL-63-633 N64-12660 04-25

POTENTIOMETRIC CONCENTRATION STUDY OF MERCURY, CADMIUM, LEAD, AND ZINC HALIDE CELLS
NAA-SR-881 N64-14083 05-23

TRANSPORT PROPERTIES OF P-TYPE LEAD TELLURIDE
NASA-TM-X-51388 N64-14280 06-25

LOW TEMPERATURE HEAT CAPACITIES AND ENTROPIES AT 298.15 DEG K. OF LEAD MOLYBDATE AND TUNGSTATE
BM-RI-6357 N64-14918 06-19

EPITAXIAL DEPOSITION OF THIN FILMS OF LEAD SULFIDE AND TELLURIDE AND TIN TELLURIDE
N64-15116 07-25

THERMOPOTENTIAL MEASUREMENTS ON MOLTEN SALTS, LEAD CHLORIDE, CADMIUM CHLORIDE, AND CADMIUM BROMIDE, UNDER THERMAL GRADIENTS
NASA-RP-129 N64-15883 07-19

SINGLE CRYSTAL AND X-RAY DIFFRACTION METHODS FOR STUDING CRYSTAL STRUCTURE OF LEAD CHLORIDE
N64-16487 08-25

ELECTRIC PROPERTIES OF SINGLE CRYSTALS OF ALLOYS OF LEAD TELLURIDE AND TIN TELLURIDE
AD-430561 N64-19270 11-09

TEMPERATURE DEPENDENCE OF CONTACT RESISTANCE OF IRON PLATED LEAD TELLURIDE CONTACT
N64-19839 12-25

LEAD SELENIDE DETECTOR AND REFRIGERATION ASSEMBLY FOR MARINER C PROGRAM
NASA-CR-56173 N64-20739 13-15

PREPARATION AND PHYSICAL PROPERTIES OF LEAD TELLURIDE AND LEAD TELLURIDE-TIN TELLURIDE SOLID SOLUTION
AD-431558 N64-21475 14-25

LEAD SELENIDE INFRARED DETECTORS
QPR-5 N64-22715 15-17

LEAD SELENIDE INFRARED DETECTOR
REPT.-5527-04 N64-25098 17-01

PRODUCTION AND DIELECTRIC PROPERTIES OF SINGLE CRYSTALS OF SOLID SOLUTION OF LEAD METANIOBATE
FTD-TT-64-320/1&2&4 N64-26117 18-25

REFRACTIVE INDEX, VACUUM COATING, AND CRYSTAL GROWTH OF LEAD CHLORIDE, ZINC TELLURIDE, AND LITHIUM FLUORIDE FILMS
AD-600264 N64-26622 18-25

ENVIRONMENTAL TESTING OF PREPRODUCTION UNITS OF LEAD SELENIDE INFRARED DETECTOR
QPR-6 N64-28548 20-15

COMPARISON OF LEAD ACID CELLS IN FLOAT CYCLE ROUTINE OF LEAD CALCIUM BATTERY
NRL-6078 N64-30042 21-06

LITHIUM FLUORIDE, ZINC TELLURIDE, & LEAD CHLORIDE INFRARED COATINGS
QR-2 N64-31189 22-25

LEADING EDGE
SA LEADING EDGE SWEEP
PRESSURE-DRAG EFFECTS OF ROUNDING LEADING EDGES OF HYPERSONIC INLETS
NASA-RP-49 N64-10072 01-02

PRESSURE MEASUREMENTS AT SUPERSONIC SPEEDS ON UNCAMBERED CONICAL WINGS WITH SHARP LEADING EDGES
ARC-CP-641 N64-10161 01-03

HEAT CONDUCTION EFFECTS IN LEADING EDGE OF WIND TUNNEL MODELS
RTD-TDR-63-4035 N64-12577 04-03

LOW SPEED WIND TUNNEL TESTS OF DELTA WING - LEADING EDGE VORTEX BREAKDOWN
ARC-R&M-3338 N64-13385 04-03

LEADING EDGE VORTEX BREAKDOWN
COA-AERO-158 N64-14051 05-11

PITCHING DERIVATIVES FOR GOTHIC WING OSCILLATING WITH LEADING EDGE SEPARATION
CP-695 N64-14158 05-03

FLAT PLATE SKIN FRICTION NEAR SHARP LEADING EDGES IN LOW DENSITY HYPERSONIC FLOW
ARL-63-224 N64-14693 06-11

HEAT TRANSFER AND PRESSURE DISTRIBUTION ON HEMISPHERE-CONE MODELS - OPTIMUM LEADING EDGES AT HIGH SPEEDS N64-15627 07-03

RAREFIED HIGH TEMPERATURE HYPERSONIC SLIP FLOW OVER FLAT PLATE WITH SHARP LEADING EDGE
AD-432130 N64-16854 08-02

THEORY FOR CONICAL FLOW ON SLENDER DELTA WINGS WITH LEADING EDGE BLOWING
COA-AERO-169 N64-16920 09-03

DEVELOPMENT OF AEROTHERMODYNAMIC PROCEDURES FOR DESIGNING HIGH SPEED VEHICLE LEADING EDGES
NA63H-982 N64-17123 09-13

LOCAL LEADING EDGE HEAT TRANSFER ON FLAT PLATE IN RAREFIED HYPERSONIC FLOW
AS-63-8 N64-17281 09-09

BOUNDARY LAYER AND CIRCULATION CONTROL ON THIN TWO-DIMENSIONAL AIRFOIL WITH SHARP LEADING EDGE
N64-19862 12-02

RAIN IMPACT DAMAGE AND STATIC TESTING OF LEADING EDGE PANEL OF WING
FGT-2728 N64-20388 13-03

UNSTEADY MOTION OF SLENDER WINGS WITH LEADING EDGE VORTICES
NPL-AERO-1087 N64-25718 17-03

LEADING EDGE BLUNTNESS AND SLIP FLOW EFFECT IN HIGH TEMPERATURE HYPERVELOCITY FLOW OVER FLAT PLATE N64-26161 18-02

FLIGHT TEST OF DO 27 AIRCRAFT STRUCTURAL WING - LEADING EDGE LIFT FORCES
AVA-63-02 N64-27140 19-04

LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF DELTA WINGS WITH CURVED & STRAIGHT LEADING EDGES FROM MACH 3 TO 6
NASA-TN-D-2486 N64-30100 21-03

DYNA-SOAR MODEL X-20A - LEADING EDGE CONCEPTS SUBJECTED TO ENVIRONMENTAL TESTING
D2-80085, VOL. 1 N64-31178 22-10

LONGITUDINAL STABILITY OF LOW ASPECT RATIO WINGS HAVING VARIATIONS IN LEADING- AND TRAILING-EDGE CONTOURS
NASA-TN-D-1796 N64-31222 22-03

LOADING TEST DATA FOR X-20 LEADING EDGES
D2-80085, VOL. 3 N64-31241 22-13

LEADING EDGE SWEEP
EFFECTS OF SPANWISE VARIATION OF LEADING EDGE SWEEP ON LIFT, DRAG, & PITCHING MOMENT OF WING-BODY COMBINATION AT TRANSONIC SPEEDS
NASA-TN-D-2236 N64-17991 10-02

EFFECTS OF LEADING-EDGE SWEEP ON FLUTTER CHARACTERISTICS OF DELTA-PLANFORM AT MACH 15.4
NASA-TN-D-2360 N64-24818 17-03

LEAKAGE
CF WASTE
THERMIONIC CONVERTER DEVELOPMENT - SPACING, CERAMICS, AND LEAKAGE
GEST-2029 N64-16793 08-06

LEAKAGE OF SUPERSONIC AIR FLOW INTO WATER THROUGH LAVAL NOZZLE N64-17178 09-02

REDUCTION OF DIELECTRIC GAS LEAKAGE FROM HIGH POWER MICROWAVE SYSTEM BY DILUTION WITH OTHER GAS
RADC-TDR-64-67 N64-20028 13-11

LEAKAGE OF NITROGEN TETROXIDE OXIDIZER FROM MISSILE TANKS DUE TO CORROSION CRACKS
ME-531 N64-21815 15-26

USE OF HELIUM MASS SPECTROMETER LEAK DETECTOR
NASA-TM-X-978 N64-26091 18-15

EVALUATION OF POROUS MATERIALS AS MOLECULAR LEAKS
AEDC-TDR-64-94 N64-26189 18-15

SEAL INTERFACE STUDIES, EXPERIMENTS ON GASKET MATERIALS AND GEOMETRY, AND DESIGN CRITERIA FOR ZERO LEAKAGE CONNECTORS
NASA-CR-56571 N64-27305 19-17

ABSOLUTE- AND REFERENCE-SYSTEM METHODS OF MEASURING CONTAINMENT-VESSEL LEAKAGE RATES
NASA-TN-D-1588 N64-30994 22-17

LEARNING
SA CONDITIONED RESPONSE
SA MEMORY
CF BEHAVIOR
CF MACHINE LEARNING
CF TRAINING
LEARNING SYSTEM - TAUGHT BY HUMANS, AUTOMATICALLY TAUGHT, & SELF-TAUGHT
JPRS-21770 N64-10204 01-16

PRINCIPLES OF ACCOMPLISHING LEARNING AND LOGICAL PROCESSES IN ELECTRONIC APPARATUS - CYBERNETICS
JPRS-19134 N64-10458 01-20

ALGORITHM COMPUTER PROGRAM WITH VARIABLE PARAMETERS FOR LEARNING TO RECOGNIZE CONFIGURATIONS N64-11032 02-20

SELF-LEARNING AS BASIC STEP IN DESIGN OF SELF-ADJUSTING SYSTEMS N64-11039 02-16

DEBATE ON ALGORITHMICAL APPROACH TO ANALYSIS OF TEACHING METHODS
JPRS-22075 N64-11270 02-16

EVALUATION OF BRANCHING AND MOTIVATIONAL PHRASES IN SCRAMBLED BOOKS
AMRL-TDR-63-122 N64-15518 07-14

RADIATION EFFECTS ON INERT GAS FILLED THERMIONIC

DIODES FROM NUCLEAR REACTOR AND SELF-CONTAINED RADIATION SOURCE - RADIOACTIVE KRYPTON
APL-TDR-64-28 N64-19415 12-06

PSYCHOLOGY - TAXONOMY OF LEARNING TASK CHARACTERISTICS
AMRL-TDR-64-2 N64-19815 12-14

MICROSTRUCTURE OF GUESS PROCESSES - PROBABILITY LEARNING
AD-600474 N64-21312 14-14

ROLE OF SPATIAL IMAGINATION IN DESIGNING AND IN TEACHING OF DRAWING IN TECHNICAL SCHOOLS
N64-25160 17-16

COMPUTER-AIDED LEARNING OF SOUND IDENTIFICATION
NAVTRADEVCEN-789-2 N64-26892 18-14

EFFECTIVENESS OF VARIOUS PRESENTATION MODES ON TRAINER DISPLAY FOR SERIAL LEARNING OR PROBLEM SOLVING
AD-439648 N64-30499 22-14

LEARNING SYSTEM
COMPUTER PROGRAMS, IMAGE SCANNING LEARNING SYSTEMS AND PRINCIPLES OF THEIR DESIGN
JPRS-18181 N64-11029 02-01

COGNITIVE HYBRID INTELLIGENT LEARNING DEVICE - TWO TYPES OF LEARNING SYSTEMS BASED ON INDUCTIVE AND DEDUCTIVE METHODS OF COGNITION N64-11038 02-20

MEMORY AND CONTROL FUNCTIONS IN TEACHING AUTOMATIC LEARNING SYSTEMS N64-11040 02-16

TEACHING OF PRINCIPLES INVOLVED IN BLOOD CLOTTING SYSTEM AND ITS DISORDERS - STUDY SCHEME
N64-12772 04-16

MATHEMATICAL MODEL OF TWO-LAYER NETWORK OF THRESHOLD ELEMENTS
RADC-TDR-63-534 N64-18784 11-20

PSYCHOLOGICAL PROBLEMS - SENSORIMOTOR PERFORMANCE IN AUTOMATIC CONTROL, VISUAL SIGNALING PARAMETRIC INFLUENCE ON MOTOR REACTION, ALGORITHMIC APPROACH TO LEARNING, AND EYE MOVEMENT CONTROL
JPRS-26014 N64-30321 22-14

ALGORITHMIC APPROACH TO ANALYSIS OF LEARNING PROCESSES AND PROBLEM SOLVING N64-30324 22-14

LEAST SQUARES METHOD
THREE-STAGE LEAST SQUARES METHOD FOR ESTIMATION OF COEFFICIENTS OF SIMULTANEOUS LINEAR EQUATIONS IN ECONOMICS
RM-3557-PR N64-11891 03-20

RECURSIVE SCHEMES FOR NORMAL EQUATIONS OF TOEPLITZ FORM N64-15483 07-20

WIND PROFILE EVALUATION BY LEAST SQUARES METHOD
N64-17113 09-21

LEAST SQUARES METHOD OF ESTIMATING SOLAR SYSTEM CONSTANTS - ASTRONOMICAL UNIT
NASA-CR-53195 N64-17225 09-05

STATISTICS AND PROBABILITY DISTRIBUTION - MAXIMUM LIKELIHOOD AND LEAST SQUARES THEORY
CERN-64-18 N64-20551 13-20

ERROR FUNCTION APPROXIMATION BY LEAST SQUARES METHOD N64-20961 14-20

LEAST SQUARES ESTIMATION OF REGRESSION COEFFICIENTS OF BALANCED POLYNOMIALS
N64-20962 14-20

LEAST SQUARES METHOD FOR PRESENTING STATE EQUATION DATA IN FORM FOR CALCULATION ON DIGITAL COMPUTER
UCRL-7607 N64-21478 14-20

METHOD FOR COMPUTING LEAST SQUARES ESTIMATOR TO ACCOUNT FOR NEW DATA POINT
AD-434715 N64-21750 15-20

COMPUTER PROGRAM FOR LEAST SQUARES METHOD OF DETERMINING ORBITAL ELEMENTS
NASA-CR-56565 N64-24123 16-20

VARIATIONAL METHOD OF APPLYING PRINCIPLES OF LEAST SQUARES TO SOLUTION OF LINEAR AND NONLINEAR EQUATIONS
MLM-1186 N64-26473 18-20

SELECTION OF MULTIVARIBLE APPROXIMATING FUNCTION SATISFYING GIVEN ERROR TOLERANCE IN SENSE OF LEAST SQUARES
NASA-CR-58207 N64-26870 18-20

LEAST SQUARES PROCEDURE FOR ANALYSIS OF TRACKING SYSTEM ACCURACY
NASA-TM-X-55048 N64-29191 21-08

SINGULAR VALUES AND PSEUDO-INVERSE OF MATRIX - COMPUTATION OF UNITARY MATRICES & DIAGONAL TRANSFORMS AND APPLICATION TO LEAST SQUARES PROBLEMS
CS-8 N64-30962 22-20

MISSILE POSITION AND ATMOSPHERIC REFRACTIVE INDEX ESTIMATION BY LEAST SQUARES METHOD
ERDA-43 N64-31327 22-08

LECLANCHE BATTERY
SHELF LIFE STUDY OF MILITARY LECLANCHE BATTERY
N64-17424 09-06

IMPEDANCE OF COMMERCIAL LECLANCHE DRY CELLS AND BATTERIES
NBS-TN-190 N64-20515 13-06

LEGENDRE CODE
SEE PSEUDORANDOM SIGNAL

LEGENDRE FUNCTION SERIES
HELIUM ATOM WAVE FUNCTION EXPANSIONS IN LEGENDRE FUNCTIONS
NASA-CR-52696 N64-11231 02-23

LEGENDRE POLYNOMIAL
ADDITION THEOREM FOR DERIVATIVE OF LEGENDRE POLYNOMIAL
BRL-1248 N64-28138 20-20

MODIFIED LEGENDRE POLYNOMIAL APPROXIMATIONS TO NEUTRON TRANSPORT EQUATION FOR SLAB GEOMETRIES
DTMB-1814 N64-31298 22-23

LEGENDRE TRANSFORM
LEGENDRE TRANSFORM FOR POTENTIAL PLASMA FLOW EQUATION
SR-7 N64-33663 24-24

LENS
SEE VISUAL ACCOMMODATION
SEE EYE
SPOT DIAGRAM METHOD OF PHOTOGRAPHIC LENS IMAGE EVALUATION N64-10299 01-23

LOWERING INJECTION ENERGY IN HIGH ENERGY ACCELERATORS WITH QUADRUPOLE LENSES
JPRS-18723 N64-10578 01-23

DIELECTRIC MATERIAL FOR ERECTABLE LENSES
GER-11147 N64-11930 03-32

LENS-REFLECTOR COMMUNICATIONS SATELLITE MODEL
GER-11123 N64-12189 03-32

MULTIPLE BEAM CAPABILITY OF GEODESIC LENS ANTENNA WITH LUNEBERG LENS N64-12258 03-08

MULTIPLE BEAM CAPABILITY OF GEODESIC LENS ANTENNA WITH LUNEBERG LENS N64-12258 03-08

LENS REFLECTOR ELEMENT FOR PASSIVE COMMUNICATIONS SATELLITE
ASD-TDR-63-781 N64-14321 06-32

HIGH FREQUENCY WIRE-GRID LENS ANTENNA FOR DIRECTION FINDING
RADC-TDR-63-211 N64-14327 06-09

FLIGHT EVALUATION OF WIDE-ANGLE, OVERLAPPING MONOCULARS FOR PROVIDING PILOT FIELD OF VISION

NASA-TN-D-2265 N64-17753 09-23

SPLIT-POLE QUADRUPOLE LENS - THEORY, DESIGN, AND PERFORMANCE
CERN-64-5 N64-17837 09-23

CONSTRUCTION AND TESTS OF HIGH FREQUENCY WIRE GRID LENS ANTENNA
RD-64-33 N64-20272 13-09

FEED SYSTEM FOR CIRCULAR SYMMETRIC GEODESIC MICROWAVE LENS ANTENNAS
REPT.-1394-12 N64-20357 13-09

GEODESIC LUNEBERG LENSES AND APPLICATION TO HIGH GAIN MICROWAVE ANTENNA SYSTEMS
REPT.-1394-13 N64-20539 13-09

MEANS OF CONTROLLING UNDESIRED RADIATION FOR HORN, PARABOLIC REFLECTOR, AND LUNEBERG LENS ANTENNAS FOR REDUCING RADIO FREQUENCY INTERFERENCE
RADC-TDR-63-549 N64-21071 14-09

WIRE MESH LENS ANTENNA FOR HIGH FREQUENCY COMMUNICATIONS
RD-64-38 N64-23239 16-09

DESCRIPTION OF MIR 35 MM CAMERA AND THREE TELEPHOTO LENSES
FTD-TT-63-1074/1 N64-24157 16-15

IMPROVING PRODUCTION MANUFACTURING METHODS FOR EXTREMELY ACCURATE ASPHERIC LENS SURFACE
ITR-19 N64-26500 18-17

QUADRUPOLE LENSES WITH LARGE ELLIPTICAL APERTURES FOR HIGH INTENSITY PARTICLE BEAMS FROM ACCELERATORS
CERN-64-34 N64-28656 20-23

EMPTY VISUAL FIELD STUDY - EFFECTS OF CORRECTIVE FILTERS AND STRUCTURES
NAVTRADEVCEN-IH-14 N64-28902 20-14

LENS ANTENNA WITH FOCUSED RADIATION PATTERN
FTD-TT-64-628/1&2 N64-31475 23-08

DIELECTRIC RADIATING LENS FED BY GOUBAU ELECTROMAGNETIC BEAM WAVEGUIDE
TR-80 N64-32624 23-23

LENS DESIGN
SA OPTICAL CORRECTION PROCEDURE
NEGATIVE LENSES IN OPTICAL SYSTEMS FOR IMPROVED LIGHT DISTRIBUTION AND DISTORTION CORRECTION
N64-23546 16-06

FIELD FLATTENING LENS DESIGNED FOR PARTIALLY CORRECTED INFRARED SCHMIDT SYSTEM
WRE-TN-CPD-84 N64-28128 20-15

LENTICULAR BODY
PASSIVELY ORIENTED LENTICULAR SATELLITE
NASA-CR-53938 N64-20009 13-32

LEPTON
BARYON-LEPTON SYMMETRY PRINCIPLE AS BASIS FOR UNIVERSAL THEORY OF SEMIWEAK INTERACTIONS
URPA-14 N64-11343 02-23

MAGNETIC SPARK CHAMBER - NEUTRINO DETECTION, LEPTON CONSERVATION, & VECTOR BOSON REDUCTION SIGNATURES N64-15510 07-23

NONLEPTONIC DECAYS OF HYPERONS
TH-45 N64-19244 11-23

BROKEN UNITARY SYMMETRY IN AXIAL VECTOR CURRENT FOR LEPTONIC DECAYS OF STRONGLY INTERACTING PARTICLES
UR-875-34 N64-22113 15-23

S-WAVE AMPLITUDES FOR NONLEPTONIC DECAYS OF HYPERONS
UR-875-32 N64-25549 17-23

LEUKEMIA
IONIZING RADIATION EFFECT ON DEVELOPMENT OF LEUKEMIA IN MAN
JPRS-22520 N64-12145 03-16

ALCOHOL DEHYDRATION, LEUKOSIS IN MICE BY IONIZING RADIATION, AND DIRECT CURRENT EFFECT ON DOGS
JPRS-20153 N64-12722 04-07

LEUKOSIS IN MICE DUE TO IONIZING RADIATION
N64-12724 04-16

PATHOLOGICAL STUDIES ON STEROID SEX HORMONES, RADIATION EFFECT ON METABOLISM, LEUKEMIA, PARATHYROID, AND HYPOTHYROIDISM
ARCH-20 N64-15398 07-16

LEUKOSES AND TUMORGENESIS BY IONIZING RADIATION, AND PATHOGENESIS OF RADIATION TUMORS
JPRS-26532 N64-30613 22-16

LIAPUNOV FUNCTION
APPLICATION OF LIAPUNOV METHOD TO INVESTIGATION OF STABILITY OF MOTION OF NONLINEAR DISCONTINUOUS SYSTEMS - AUTOMATIC CONTROL
MH-TRANS-384 N64-14804 06-20

STABILITY OF TRIVIAL SOLUTION OF SECOND-ORDER SYSTEMS WITH TWO NONLINEARITIES BY LIAPUNOV METHOD
MH-TRANS-392 N64-14805 06-20

ZUBOV METHOD FOR CONSTRUCTING LIAPUNOV FUNCTION - ASYMPTOTIC STABILITY
MH-TRANS-389 N64-15245 07-20

ANALYZING STABILITY OF LINEAR AUTOMATIC CONTROL SYSTEMS USING LIAPUNOV FUNCTIONS
N64-26383 18-09

APPLICATION OF LIAPUNOV DIRECT METHOD TO OBTAIN GENERAL STABILITY OF MOTION
MRC-485 N64-31958 23-23

LIAPUNOV FUNCTIONS FOR ANALYSIS AND DESIGN OF NONLINEAR & ADAPTIVE CONTROL SYSTEMS
RTD-TDR-63-4076 N64-33915 24-09

LIBRATION
CRITICAL INCLINATION OF CLOSE EARTH SATELLITES FOR CASE OF ASYMMETRICAL POTENTIAL OF MAIN BODY AND SMALL ECCENTRICITY - PECULIAR LIBRATION
NASA-RP-54 N64-10177 01-22

SMALL-BODY MOTION IN VICINITY OF EARTH-MOON SYSTEM STABLE LIBRATION POINTS
NASA-TR-R-160 N64-15163 07-29

NUMERICAL ANALYSIS OF LIBRATIONAL MOTION OF PARTICLE AROUND LAGRANGIAN TRIANGULAR POINT IN SEMIRESTRICTED THREE-BODY PROBLEM
N64-15272 07-20

LUNAR LIBRATION CONSTANTS, LUNAR SURFACE, AND LUNAR SHAPE DETERMINATIONS
ASR-2 N64-16076 07-05

SATELLITE LIBRATION ON ELLIPTIC ORBIT
RM-3632-PR N64-16791 08-29

REDUCING PEAK AMPLITUDES AND DIVERGENCE RATES FOR STEADY AND UNSTEADY MOTION OF LIBRATING BODIES
AD-432469 N64-17325 09-23

DIFFERENTIAL EQUATION COMPUTATION PROCEDURES AND LIBRATION MOTIONS OF SPACE MATHEMATICS
NASA-CR-56195 N64-24120 16-20

LONG PERIOD LIBRATION OF TROJAN MINOR PLANET
N64-25104 17-29

TORSION DAMPING CAPACITY OF THIN WIRE AND USE IN DAMPING LIBRATION OF GRAVITY GRADIENT SATELLITE
CM-1039 N64-26624 18-23

STABILITY OF DUST CLOUDS IN VICINITY OF EARTH-MOON TROJAN LIBRATION POINTS BY MOTION ANALYSIS IN PRESENCE OF SUN, MOON, AND EARTH - FOUR-BODY

PROBLEM
RM-3992-PR N64-31973 23-05

LIBRATION MECHANISM OF CLOSE APPROACHES OF PLUTO TO NEPTUNE - ORBITAL CALCULATIONS FOR FIVE OUTER PLANETS
NWL-1945 N64-32342 23-05

LIE GROUP
LIE ALGEBRA THEORIES AND EFFECTS OF PERTURBING RANDOM COUPLING IN COUPLED MODE SYSTEMS
IR-6 N64-33786 24-20

LIFE
SA BIOGENESIS
SA EXTRATERRESTRIAL LIFE
THEORIES ABOUT CREATION OF LIFE FORMS
JPRS-19231 N64-10650 01-16

LIFE IN SPACE ENVIRONMENT, COSMIC RADIATION, & MANNED SPACEFLIGHT REPORTS
FTD-TT-62-1518/1&2 N64-16351 08-01

LIFE AND SPACE ENVIRONMENT, AND TEST OF RELATIVITY THEORY N64-16353 08-16

ANNOTATED BIBLIOGRAPHY OF RADIOISOTOPE & RADIATION EFFECTS ON LIFE PROCESSES
TID-3098/INDEX/ N64-19236 11-16

SIMILARITY OF ORGANIC COMPOUNDS IN CARBONACEOUS METEORITES TO THOSE IN MARINE SEDIMENTS - EVOLUTION OF LIFE N64-19584 12-16

EVOLUTION OF INORGANIC, ORGANIC, AND BIOLOGICAL MATERIALS AND ORIGIN OF LIFE
NASA-TM-X-54008 N64-22754 16-16

CHEMICAL EVOLUTION AND ORIGIN OF LIFE
NASA-RP-233 N64-25970 18-16

RADIOACTIVE ELEMENTS - SEPARATION, HALF-LIFE, PARTICLE SOURCE AND COUNTING
MLM-1170 N64-32826 24-07

LIFE DETECTOR
CF EXTRATERRESTRIAL LIFE
ACCELERATED LIFE DETECTOR FOR RELIABILITY TESTING OF SEMICONDUCTOR DEVICES
USAELRDL-TR-2362 N64-13829 05-09

ULTRAVIOLET RADIATION ABSORPTION BY PEPTIDES FOR DETECTION OF EXTRATERRESTRIAL LIFE ON MARS
NASA-CR-55655 N64-16109 07-16

BACTERIAL CELL DIVISION IN RELATION TO OXIDATION-REDUCTION POTENTIAL CHANGE FOR EXTRATERRESTRIAL LIFE DETECTION
NASA-CR-53734 N64-19577 12-16

ORGANIC COMPOUND ANALYSIS - LIFE DETECTION METHOD FOR SPACE
NASA-CR-52217 N64-20682 13-16

GULLIVER PROGRAM - MARS EXTRATERRESTRIAL LIFE DETECTION AND ANALYSIS
NASA-CR-55511 N64-22755 16-16

DETECTION OF EXTRATERRESTRIAL LIFE BY ULTRAVIOLET SPECTROPHOTOMETRY
NASA-CR-50815 N64-22760 16-16

GAS CHROMATOGRAPHY FOR DETECTION OF LIFE ON MARS
NASA-TM-X-50806 N64-22773 16-16

EXTRATERRESTRIAL LIFE DETECTOR, AND AUTOMATIC PAPER CHROMATOGRAPHY DEVICE FOR ANALYSIS OF SOLUBLE CONSTITUENTS OF PLANETARY SOIL
NASA-CR-56523 N64-22783 16-16

DEVELOPMENT OF LIFE DETECTOR FOR PLANETARY SOILS - DETECTION BY CHANGES IN LIGHT TRANSMISSION AND IN PH FACTOR OF SELECTED MEDIUM
NASA-CR-56528 N64-22789 16-16

APPLICATION OF STATISTICAL DECISION THEORY TO DESIGN OF EXTRATERRESTRIAL LIFE DETECTORS
NASA-CR-58531 N64-28939 20-16

HYDROCARBON ANALYSIS AS MEANS OF DETECTING LIFE IN SPACE - ABIOTIC, BIOLOGICAL, SEDIMENTAL, AND METEORITIC ALKANES
NASA-CR-58500 N64-29202 21-16

FEASIBILITY OF OPTICAL ROTATION FOR REMOTE DETECTION OF EXTRATERRESTRIAL LIFE N64-31026 22-16

LIFE SCIENCE
STRUCTURE & FUNCTION OF MOLECULAR LEVEL LIFE, AND CORRELATION BETWEEN FORMS OF MOTION & FORMS OF MATTER
JPRS-21806 N64-10269 01-16

LIFE SCIENCES AND SPACE ENVIRONMENT N64-11647 03-01

PHYSICS, BIOSCIENCES, MATHEMATICS, AND METALLURGY N64-15563 07-01

COMPUTERS IN LIFE SCIENCES - BIBLIOGRAPHY N64-17491 09-16

APPLICATION OF ISOTOPE CHEMISTRY TO INTERMOLECULAR FORCE, GEOCHEMICAL, AND LIFE SCIENCE STUDIES
BNL-870/T-349/ N64-28700 20-07

CONTROL SYSTEMS IN ORGANIC NATURE - UNDERSTANDING LIFE PROCESSES N64-29742 21-16

AEROSPACE RESEARCH - NUCLEAR PHYSICS, AND PHYSICAL, MATHEMATICAL, ENGINEERING, ENVIRONMENTAL, AND LIFE SCIENCES
OAR-64-6 N64-32592 23-10

LIFE SUPPORT SYSTEM
SA CLOSED ECOLOGICAL SYSTEM
SA PRESSURIZED CABIN
SA PRESSURIZED SUIT
CF SURVIVAL
LIFE SUPPORT SYSTEMS, IL-62 TURBOJET AIRCRAFT, MARS-I SPACECRAFT, AND GYRATING ENGINES
JPRS-18565 N64-10773 02-01

LIFE SUPPORT SYSTEM FOR ASTRONAUTS IN SPACE VEHICLES N64-10774 02-32

MAINTENANCE OF LIFE CONDITIONS, AND MEDICAL & BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND SOVIET SATELLITE N64-11687 03-16

PROVIDING FOOD AND WATER FOR DOGS DURING SPACE FLIGHT N64-11695 03-16

EMERGENCY LIFE SUSTAINING SYSTEM FOR USE DURING FAILURE OF NORMAL PRESSURIZATION IN SPACECRAFT
AMRL-TDR-63-82 N64-12214 03-16

BIOLOGICAL REGENERATION SYSTEM AS COMPONENT OF LIFE SUPPORT SYSTEM FOR LUNAR BASE N64-13714 04-16

ENVIRONMENTAL CONTROL DEVELOPMENT & LUNAR BASE LIFE SUPPORT SYSTEM MODULES N64-13716 05-16

LIFE SUPPORT SYSTEMS FOR LONG DURATION SPACE EXPLORATION MISSIONS
NASA-RP-135 N64-15843 07-16

LIFE SUPPORT IN SPACE ENVIRONMENT
NASA-TM-X-51744 N64-22784 16-16

SPACE SUIT - LIFE SUPPORT SYSTEM
NASA-TT-F-8852 N64-22940 16-16

WASTE UTILIZATION ON LONG TERM SPACE FLIGHT - LIFE SUPPORT SYSTEM N64-23742 16-16

PHYSICOCHEMICAL WASTE UTILIZATION COMPONENT FOR LONG-TERM SPACE FLIGHT LIFE SUPPORT SYSTEM N64-23752 16-16

SUSPENSION OF UNICELLULAR ALGAE AS COMPONENT OF CLOSED CYCLE FOR CREATION OF NORMAL HUMAN ACTIVITY CONDITIONS IN LONG-TERM SPACE FLIGHTS N64-23760 16-16

PHYSICOCHEMICAL SYNTHESIS OF CARBOHYDRATES IN

SPACESHIP CABIN N64-23774 16-16

LIFE SUPPORT SYSTEMS - ANNOTATED BIBLIOGRAPHY
AID-P-64-33 N64-24100 16-16

PHYSIOLOGICAL EFFECTS AND HUMAN TOLERANCES - INFLUENCE ON DESIGN OF LIFE SUPPORT SYSTEMS FOR SUBMARINES OR SPACECRAFT N64-24610 17-16

MAN IN SPACE - EXPLORATION STAGES, LIFE SUPPORT SYSTEMS, RADIATION PROTECTION, TRAINING, AND PHYSIOLOGICAL RESEARCH METHODS
JPRS-25825 N64-28438 20-29

EXTRACELLULAR POLYSACCHARIDE PRODUCED BY ALGAE AND INFLUENCE ON RECYCLING IN LIFE SUPPORT SYSTEM N64-29722 21-16

LECTURES IN AEROSPACE MEDICINE - LIFE SUPPORT SYSTEMS, HUMAN PERFORMANCE, AND LANDING SIMULATION FOR MANNED LUNAR LANDING, ORBITING LABORATORY, AND MARS MISSIONS
AD-445253 N64-30712 22-16

APOLLO PORTABLE LIFE SUPPORT SYSTEM N64-30725 22-16

CARRIER ROCKETS, INTERPLANETARY FLIGHTS, LIFE SUPPORT, MANNED SPACE FLIGHT, AND SPACE ENVIRONMENT HAZARDS
FTD-MT-64-227 N64-31774 23-29

ANNOTATED BIBLIOGRAPHY ON LIFE SUPPORT SYSTEMS - SPACE MEDICINE AND BIOLOGY, AND PHYSIOLOGY
ATD-P-64-52 N64-32355 23-16

ANNOTATED BIBLIOGRAPHY ON LIFE SUPPORT SYSTEMS - SPACE MEDICINE AND BIOLOGY, AND PHYSIOLOGY
ATD-P-64-53 N64-32356 23-16

INORGANIC SYSTEM FOR OXYGEN RECOVERY FOR LIFE SUPPORT IN SPACECRAFT
AMRL-TDR-64-30 N64-32626 23-16

RESPIROMETER AND LIFE SUPPORT SYSTEM FOR POTATO SPECIMEN IN SPACE ENVIRONMENT
NASA-CR-58945 N64-33189 24-16

LIFESPAN
CONTINUOUS PROPAGATION OF MICROORGANISMS - LIFE CYCLE STUDIES INVOLVING AGE DISTRIBUTION N64-11436 02-16

X-RADIATION EFFECTS ON LIFESPAN, & CARDIOVASCULAR AND REPRODUCTIVE SYSTEMS OF DOG
UCD-107 N64-12111 03-16

CHRONIC IRRADIATION EFFECTS ON LONGEVITY AND PERIPHERAL BLOOD ELEMENTS OF MONKEYS
SAM-TDR-63-55 N64-13078 04-16

BIOCHEMISTRY - IONIZING RADIATION EFFECT ON MOUSE TISSUE, THERAPEUTIC AGENTS FOR RADIATION INJURIES, AND IRRADIATION EFFECT ON ANIMAL LIFESPAN
QPR-49 N64-13501 05-16

EFFECT OF IONIZING RADIATION ON MAMMALIAN TISSUES, CHEMOTHERAPY FOR RADIATION SICKNESS IN ANIMALS, & INFLUENCE OF RADIATION EXPOSURE ON LIFESPAN
AD-430559 N64-16645 08-16

HIGH ENERGY NEUTRON AND PROTON RADIATION EFFECTS ON LIFESPAN, PERIPHERAL BLOOD, AND RATE OF APPEARANCE OF TUMORS IN RATS
FTD-TT-63-1049/1&2&4 N64-19220 11-16

IONIZING RADIATION EFFECTS ON MAMMALIAN TISSUES, THERAPEUTIC AGENTS FOR RADIATION SICKNESS AND EFFECTS OF LOW LEVEL EXPOSURE ON LIFESPAN OF MICE
QPR-51 N64-20181 13-16

X-RAY IRRADIATION EFFECTS ON WORK CAPACITY AND LIFESPAN OF DOGS
UCD-472-109 N64-25111 17-16

LIFETIME
STORAGE AND LIFETIME TEST DATA FOR IMPROVEMENT OF TRANSISTOR RELIABILITY
AD-423881 N64-11774 03-09

FORMULAS & TABLES FOR COMPUTING LIFETIME OF ARTIFICIAL SATELLITES FROM ORBIT
NASA-CR-55058 N64-11811 03-29

CYCLE-LIFE TESTING OF ALKALINE BATTERIES
ASD-TDR-63-394 N64-12325 03-20

ORBITAL LIFETIME PREDICTION - ATMOSPHERIC VARIATIONS, VEHICLE DRAG COEFFICIENT, PROPELLANT BOILOFF, & VEHICLE ATTITUDE STABILIZATION
NASA-TN-D-1995 N64-12714 04-29

LIFE AND RELIABILITY INCREASE FOR USSR AIRCRAFT TURBOJET ENGINE
FTD-MT-63-108/1&2&3&4 N64-14387 06-27

ALKALINE BATTERY EVALUATION - CYCLE LIFE PERFORMANCE & FAILURE ANALYSIS
RTD-TDR-63-4144 N64-14962 06-06

FREE POSITRON ANNIHILATION MEAN LIFETIMES IN RARE AND DIATOMIC GASES IN LIQUID AND SOLID STATES
NASA-RP-140 N64-16689 08-23

PROBABILITY OF COLLAPSE OF FAIL-SAFE AIRCRAFT STRUCTURES OF 6 PARALLEL ELEMENTS - FUNCTION OF SERVICE LIFE FOR VARIOUS INSPECTION INTERVALS
HU-961 N64-17150 09-09

SHELF LIFE STUDY OF MILITARY LECLANCHE BATTERY N64-17424 09-06

SILICON PLANAR EPITAXIAL TRANSISTOR - PRODUCTION METHOD, RELIABILITY, AND LIFETIME
AD-435114 N64-18738 11-17

MAXIMUM LIFETIME OF RODS DURING BENDING - CREEP ANALYSIS
RSIC-145 N64-19120 11-33

CYCLE LIFE TESTS OF THERMIONIC CONVERTERS FOR SOLAR POWER SYSTEMS
ASD-TDR-62-1069 N64-19206 11-06

GREEN FUNCTION METHOD FOR QUASI-PARTICLE LIFETIMES AND QUANTUM THEORY OF DOMAIN WALL MOTION
TR-186 AND 187 N64-19426 12-23

GREEN FUNCTION METHOD FOR QUASI-PARTICLE LIFETIMES N64-19427 12-20

INSTRUMENTATION FOR MASS RELAY LIFE TESTING N64-19537 12-17

TEST EQUIPMENT TO MEASURE DEGRADATION OF ELECTRONIC DEVICES FOR LIFE PREDICTION
WP-2643-7 N64-19856 12-15

ACCEPTANCE SAMPLING PROCEDURE AND SAMPLING INSPECTION PLANS FOR EVALUATING LOT QUALITY IN TERMS OF RELIABLE LIFE
TR-8 N64-20701 13-20

WEAR RESISTANCE OF ENAMEL COATINGS WITH REFERENCE TO LIFE OF MACHINE PART
FTD-TT-62-1659/1&2&4 N64-21922 15-19

LIFE TESTING OF SILICON EPITAXIAL PLANAR TRANSISTORS
QPR-6 N64-22516 15-17

EFFECTS OF CADMIUM PLATE SUBSTRATE ON WEAR LIFE AND CORROSION RESISTANCE OF DRY FILM LUBRICANT COATED BEARINGS
A754 N64-22596 15-17

CALCULATION OF LIFETIME OF ICE IN NUCLEI OF COMETS IN SOLAR RADIATION FIELD N64-25065 17-05

DYNAMIC MODEL ATMOSPHERIC EFFECTS UPON SATELLITE MOTION AND SATELLITE LIFETIME
SSD-TDR-64-51 N64-25247 17-29

TIME DEPENDENCE OF RADIATION BELT LIFETIMES AND SOME APPLICATIONS
NASA-CR-56828 N64-25566 17-28

DETERMINATION OF ETA PARTICLE LIFETIME FROM ELECTRON-POSITRON BEAM COLLISIONS

LNF-64/15 N64-25643 17-23

NUCLEAR PHYSICS - LIFETIME DETERMINATION OF ETA-PARTICLES
LNF-64/14 N64-25670 17-23

LIFETIME CYCLING TESTS OF BATTERIES FOR SPACECRAFT POWER SUPPLIES
NASA-CR-56478 N64-27379 19-06

LIFETIME CYCLING TESTS OF SEALED NICKEL-CADMIUM BATTERY CELLS
NASA-CR-58179 N64-27383 19-06

BATTERY LIFE CYCLE TEST RESULTS
NASA-CR-56416 N64-27913 20-06

LIFE CYCLE TESTS OF 5 AND 10 CELL NICKEL-CADMIUM BATTERY PACKS
NASA-CR-56475 N64-27914 20-06

SHELF LIFETIME OF SOME GALLIUM ARSENIDE SOLAR CELLS N64-28221 20-06

APPROXIMATION FORMULAS FOR DETERMINING LIFETIME OF SATELLITES TRAVELING AT LOW ALTITUDES N64-29078 21-29

DETERMINATION OF LIFETIME OF PROMPT FISSION NEUTRONS
LFEN.16 /ALPHA/ N64-29883 21-23

LIFETIME OF NONEQUILIBRIUM CARRIERS IN MAGNETIC TRAPS
DI-82-0340 N64-30041 21-24

FACTORS AND PROCEDURES FOR APPLICATION OF NEW STANDARDS IN LIFETIME AND RELIABILITY INSPECTION
TR-10 N64-31168 22-17

PRECISION POTENTIOMETERS - LOW NOISE & LONG LIFE N64-31483 23-15

RECIRCULATION AND LIFESPAN OF SMALL LYMPHOCYTES IN RAT
AAL-TDR-63-17 N64-31829 23-16

OPERATION LIFE OF CESIUM CONTACT ION ENGINES
AIAA PAPER-64-685 N64-32722 24-27

DESIGN CRITERIA AND PERFORMANCE OF LONG LIFE CESIUM CONTACT LINEAR STRIP ION ENGINE
AIAA PAPER-64-710 N64-32725 24-27

SPACE LIFETIMES IN PARENT MOLECULES OF COMET RADICALS ESTIMATED FROM ABSORPTION CROSS SECTIONS & SOLAR ULTRAVIOLET FLUX
NASA-RP-351 N64-33988 24-29

LIFT
SA DRAG
CF GROUND EFFECT
FULL-SCALE, WING-MOUNTED, TIP-TURBINE-DRIVEN LIFT FAN WIND TUNNEL TESTS
TRECOM-TR-63-21 N64-13818 05-10

OSCILLATORY LIFT & MOMENT DISTRIBUTION OF SURFACE-PIERCING FLEXIBLE CANTILEVER SUBCAVITATING HYDROFOILS
AD-422754 N64-15595 07-03

ESTIMATION OF LIFT CHARACTERISTICS OF VERY LOW ASPECT RATIO WINGS AT SUBSONIC SPEEDS N64-15628 07-03

HEAT TRANSFER AND SHADOWGRAPH TESTS OF ELLIPTICAL LIFTING BODIES WITH SHARP & BLUNT NOSE SHAPES AT HYPERSONIC SPEEDS
AEDC-TDR-64-19 N64-16075 07-02

LIFT DISTRIBUTION ON WINGS IN UNBOUNDED FLOW FIELD NEAR GROUND - AERODYNAMIC CHARACTERISTICS
RAE-TRANS-1054 N64-17249 09-03

THIN WING PROFILE WITH MINIMUM MEAN COEFFICIENT OF HEAT TRANSFER FOR GIVEN LIFT
FTD-TT-63-804/1&2 N64-21956 15-03

AERODYNAMIC LIFT EFFECT ON SATELLITE ORBITS
RAE-TN-SPACE-58 N64-23016 16-31

FREE FLIGHT MEASUREMENTS OF ZERO LIFT DRAG OF SLENDER OGEE WING AT TRANSONIC & SUPERSONIC SPEEDS
ARC-CP-670 N64-24924 17-03

LIFT AND PITCHING MOMENT ON FOUR OGEE WINGS AT SUPERSONIC SPEED
ARC-CP-673 N64-24926 17-03

FORMULATION OF PROBLEMS CONCERNING LIFTING PROPERTY
AROD-3333-9 N64-25696 17-23

AERODYNAMIC CHARACTERISTICS OF GENERAL & SPECIFIC LIFTING & NONLIFTING CONFIGURATIONS AT MACH 24 N64-26135 18-02

ASYMPTOTIC METHOD FOR LIFT DISTRIBUTION DETERMINATION OF SWEPTBACK WING OF FINITE SPAN
AGM-114 N64-26758 18-03

PULSE REACTOR ENGINE FOR HIGH PERFORMANCE LIFT-PROPULSION SYSTEMS WITH NO MOVING PARTS
ARD-308 N64-29411 21-27

STATIC TESTING OF LIFT FAN - PROPULSION AND ATTITUDE CONTROL SYSTEMS PERFORMANCE
TCREC-TR-62-21 N64-31128 22-03

WIND TUNNEL AND GROUND TEST PLANS FOR PROPULSION SYSTEM OF XV-5A LIFT FAN FLIGHT RESEARCH AIRCRAFT
QTPR-9 N64-32148 23-04

LIFT AUGMENTATION
AERODYNAMIC ASPECTS OF BOUNDARY LAYER CONTROL FOR HIGH LIFT AT LOW SPEEDS DURING APPROACH, LANDING, AND TAKEOFF - AIRCRAFT DESIGN AND HANDLING
AGARD-414 N64-11907 03-03

LIFT COEFFICIENT
THIN AIRFOIL WITH MINIMUM AVERAGE COEFFICIENT OF HEAT TRANSFER FOR GIVEN LIFT COEFFICIENT
RM-3410-PR N64-14326 06-02

LIFT COEFFICIENT OF SPHERE MOVING IN CIRCULAR TUBE
IS-615 N64-16671 08-02

LIFT DEVICE
LOW-SPEED LONGITUDINAL AERODYNAMIC INVESTIGATION OF PARAWINGS AS AUXILIARY LIFTING DEVICES FOR SUPERSONIC AIRCRAFT CONFIGURATION
NASA-TN-D-2346 N64-24589 17-03

MISSILE LIFT-OFF MEASUREMENT SYSTEM - ALL-WEATHER, NUCLEONIC, HIGH PRECISION TRACKER
RADC-TDR-63-535 N64-31907 23-10

LIFT-DRAG RATIO
AERODYNAMIC FACTORS AFFECTING DESIGN OF ORBITING REENTRY VEHICLES - HEAT SHIELD, DRAG, AND LIFT
ER-673, VOL. 1 N64-15193 07-30

EFFECTS OF SPANWISE VARIATION OF LEADING EDGE SWEEP ON LIFT, DRAG, & PITCHING MOMENT OF WING-BODY COMBINATION AT TRANSONIC SPEEDS
NASA-TN-D-2236 N64-17991 10-02

FLUID DYNAMIC FORCES OF LIFT & DRAG ON SPHERES SUSPENDED IN POISEUILLE FLOW - SQUID PROJECT
PR-106-P N64-19636 12-11

LIFT AND DRAG MEASUREMENTS ON SUPERCAVITATING HYDROFOIL
TR-343-1 N64-21357 14-03

CAPABILITY OF LATERAL CONTROL SYSTEM TO PROVIDE AERODYNAMIC HEADING-ANGLE CONTROL OF VEHICLE HAVING MAXIMUM LIFT-DRAG RATIO DURING REENTRY
NASA-TN-D-2343 N64-24588 17-05

WIND TUNNEL STUDY OF FAVORABLE INTERFERENCE TO INCREASE LIFT-DRAG RATIOS OF SUPERSONIC AIRCRAFT - OPTIMIZED WING-BODY-INLET CONFIGURATION
DTMB-AERO-1063, PT. II N64-28911 20-02

SUPERCAVITATING HYDROFOILS AT ARBITRARY CAVITATION COEFFICIENT AND LIFT-DRAG RATIOS
REPT.-141 N64-31430 23-11

LIFT FORCE
LIFT AND DRAG FORCES ON SUPERVENTILATED HYDROFOILS OF FINITE SPAN BELOW FREE SURFACE
PR-66 N64-14767 06-03

FLIGHT TEST OF DO 27 AIRCRAFT STRUCTURAL WING - LEADING EDGE LIFT FORCES
AVA-63-02 N64-27140 19-04

INLET TEMPERATURE RISE & LIFT-FORCE OF JET-ENGINE POWERED VTOL AIRCRAFT IN GROUND EFFECT
REPT.-2099-928002 N64-32551 23-04

LIFTING BODY
LINEAR THEORY FOR SEPARATED AND NONSEPARATED TWO-DIMENSIONAL, INCOMPRESSIBLE, IRROTATIONAL FLOW ABOUT LIFTING BODIES
AD-423579 N64-16466 08-02

HYPERSONIC AERODYNAMIC CHARACTERISTICS OF LIFTING BODIES BY NEWTON PRESSURE LAW
AEDC-TDR-64-25 N64-16878 08-02

SEPARATED FLOW ABOUT LIFTING BODIES - VORTEX SEPARATION
MIT-DSR-9221 N64-18907 11-02

PILOT PERFORMANCE REQUIREMENTS IN LIFTING BODY AND REENTRY VEHICLES IN HYPERSONIC AND SUBSONIC FLIGHTS
NASA-TM-X-56005 N64-22440 15-16

TWO-DIMENSIONAL DOUGLAS NEUMANN PROGRAM TO HANDLE LIFTING, INFINITE CASCADES
LB-31653 N64-30964 22-03

LIGHT
SA COHERENT LIGHT
SA FLASH
SA LAMP
SA PHOTON
SA ULTRAVIOLET LIGHT
CF LUMINESCENCE
LONG WAVE INFRARED SPECTRUM OF QUARTZ MERCURY LAMP
TIL/T-5375 N64-10859 02-23

SEMICONDUCTOR LASER DIODES AS LIGHT AMPLIFIERS, OXYGEN GAS LASER LIGHT SOURCES
RADC-TDR-63-429 N64-12587 04-25

LIGHT AND HEAT SENSING
AGARDOGRAPH-71 N64-15452 07-23

INFORMATION CAPACITY OF HEAT AND LIGHT SENSORS
N64-15453 07-23

USE OF STARS FOR ESTIMATING LIGHT ATTENUATION IN ATMOSPHERE
N64-15460 07-23

DEGRADATION MEASUREMENTS OF SOLAR CELL IRRADIATION UNDER TUNGSTEN AND SUNLIGHT ILLUMINATIONS
NASA-TN-D-2098 N64-15845 07-06

PERFORMANCE OF HIGH EFFICIENCY SILICON SOLAR CELLS AS EFFECTED BY CONCENTRATED SUNLIGHT
AD-402839 N64-16100 07-06

TRANSMISSION OF POLARIZED LIGHT THROUGH ORIENTED, ANISOTROPIC, THIN POLYMER FILM
ONR-TR-67 N64-16476 08-23

TIROS I PICTURES OF MOUNTAIN PHENOMENA, ICE, SUN GLITTER, GULF STREAM, AND SOUTHERN HEMISPHERE CLOUDS
N64-17918 10-21

ORBIT RAISING BY LOW THRUST PROPULSION IN CONTINUOUS SUNLIGHT
NASA-TN-D-2072 N64-18078 10-29

LIGHT PRESSURE RESULTING FROM LYMAN ALPHA RADIATION IN PLANETARY NEBULA AND DYNAMICS OF PLANETARY NEBULAE
N64-19335 12-05

HETERODYNE DEMODULATION OF FREQUENCY MODULATED LIGHT IN MICROWAVE RANGE
AD-428980 N64-20394 13-25

DETECTION TECHNIQUES FOR LIGHT MODULATED AT MICROWAVE FREQUENCY - FM DEMODULATION SCHEMES
EDL-M670 N64-22115 15-23

LIGHT RADIATION PRESSURE ON DUST AND GAS - INTERSTELLAR MOTION AND STRUCTURE OF NEBULAS
N64-23182 16-29

REFRACTION OF POLARIZED LIGHT IN PHOTOELASTIC STUDY
RSIC-191 N64-25224 17-33

FREQUENCY DEPENDENCE OF POLARIZATION OF LIGHT FROM MARS AND MOON
AFCRL-64-442 N64-25760 17-29

PLANET STUDY BY MEANS OF POLARIZATION OF THEIR LIGHT
NASA-TT-F-188 N64-26419 18-05

LIGHT POLARIZATION FROM PLANETS & TERRESTRIAL SUBSTANCES
NASA-TT-F-187 N64-27068 19-05

INDICATIONS OF SYNODICAL PERIOD IN SUNSHINE OBSERVATIONS FOR BOSTON, MASSACHUSETTS, AND COLUMBIA, MISSOURI - SYNOPTIC METEOROLOGY
AFCRL-64-150 N64-27744 19-21

ULTRASONIC LIGHT MODULATOR TO INTRODUCE ACTIVE SIGNAL INTO LIGHT BEAM FOR COMPUTING PURPOSES
REPT.-2900-444-R N64-28113 20-15

GAS LASER LIGHT SOURCE FOR DEMONSTRATION IN OPTICS
N64-30135 21-23

LUMINOUS SPOT IN NIGHT SKY DUE TO DECOMPOSITION OF SOLAR LIGHT BY CLOUD
NASA-TT-F-8957 N64-30850 22-28

INDIVIDUAL DIFFERENCES AS FACTORS IN RESPONSES OF HUMAN BRAIN POTENTIALS TO RHYTHMIC LIGHT STIMULATION
N64-31458 23-14

TRANSVERSE WAVE PHOTOTUBE AND BIREFRINGENT DISCRIMINATOR IN LIGHT FREQUENCY MODULATION DETECTION
IER-5 N64-31705 23-23

DIALOGUE ON THEORY OF RELATIVITY AND PHYSICS OF NEAR-LIGHT SPEEDS
FTD-MT-64-254 N64-31797 23-23

ULTRASONIC LIGHT SCANNING EMPLOYING CRYSTAL QUARTZ DEFLECTION CELL AND ACTIVE OPTICAL IMAGING SYSTEM
B930080-3 N64-31924 23-23

HIGH INTENSITY PHOTOLYSIS OF AZO COMPOUNDS USING SUPER PRESSURE MERCURY LAMP AS LIGHT SOURCE
GNE/PHYS-64-18 N64-33708 24-07

LIGHT ABSORPTION
TRANSMISSION AND ATTENUATION OF RUBY LASER LIGHT THROUGH WATER
NRL-5941 N64-20847 14-25

LIGHT RADIATION AND ABSORPTION IN PLANETARY AND DIFFUSE GASEOUS NEBULA
N64-23180 16-29

ABSORPTION OF DISTILLED WATER, SEA WATER, AND HEAVY WATER IN VISIBLE SPECTRUM
AFCRL-64-481 N64-30547 22-23

LIGHT ELEMENT
FRAGMENTATION OF HEAVY COSMIC RAY NUCLEI IN LIGHT ELEMENTS
N64-10362 01-28

HEATS OF FORMATION AND THERMODYNAMICS OF ORGANIC DERIVATIVES OF LIGHTER ELEMENTS FOR CHEMICAL PROPULSION
N64-19031 11-07

DETERMINING MASS OF AN OBJECT IN WHICH OBSERVED ABUNDANCES OF LIGHT ELEMENTS & ISOTOPES COULD HAVE EXISTED IN EQUILIBRIUM THERMONUCLEAR GAS
N64-19339 12-05

WINDOWLESS TUBE SPECTROMETER FOR X-RAY FLUORESCENT ANALYSIS OF LIGHT ELEMENTS
N64-26082 18-07

ABSORPTION OSCILLATOR STRENGTHS OF SPECTRAL LINES FROM MEDIUM AND LIGHT ELEMENTS

NRL-6085 N64-29954 21-23

LIGHT EMISSION
PHOSPHORS USED IN CATHODE RAY TUBE SCREEN TO TRANSFORM ELECTRON BEAM ENERGY INTO LIGHT RADIATION
JPRS-18362 N64-10758 02-09

LIGHT EMISSION OF UPPER ATMOSPHERE
N64-20761 14-12

LIGHT INTENSITY
MODULATION OF PHOTOMULTIPLIER AMPLIFICATION FACTOR IN MEASUREMENT OF WEAK LIGHT FLUXES
NASA-TT-F-137 N64-14754 06-23

PHOTOCONDUCTOR-ELECTROLUMINESCENT SOLID STATE LIGHT INTENSIFIER
NAVTRADEVCEN-562-1 N64-18563 11-25

ANGULAR DEPENDENCE OF INTENSITY OF LIGHT AND X-RAY SCATTERING BY BIOPOLAR MACROMOLECULE IN SPIRAL-TO-BALL TRANSITION REGION N64-19438 12-07

INTENSITY OF ATMOSPHERIC LIGHT SCATTERING IN ULTRAVIOLET REGION WITH ABSORPTION BY OZONE AND OXYGEN
LAS-TR-199-48 N64-21560 15-12

ULTRASONIC WAVE & MICROWAVE RADIO COMMUNICATION TRANSMITTER SITE SELECTED BY LIGHT ILLUMINATION AND DIFFRACTION ON EARTH SHAPE
FTD-TT-64-30/162 N64-22158 15-08

EFFECT OF LIGHT INTENSITY ON USE OF CARBON DIOXIDE AND ORGANIC COMPOUNDS DURING PHOTOSYNTHESIS OF CHLOROPSEUDOMONAS ETHYLICUM N64-23433 16-16

APPLICATION OF LIGHT AND IMAGE INTENSIFICATION
NTE-5 N64-24897 17-25

APPLICATION OF LIGHT AND IMAGE INTENSIFICATION
NTER-7 N64-28196 20-25

PHOTOMETRY OF NIGHT SKY - EFFECTS OF INTEGRATED STARLIGHT, ZODIACAL LIGHT, AND AIRGLOW ON LIGHT INTENSITY
NASA-CR-59011 N64-33214 24-12

LIGHT METAL
HIGH TEMPERATURE THERMODYNAMICS OF LIGHT METAL COMPOUNDS
C-64362 N64-14038 05-13

HIGH TEMPERATURE VAPOR PHASE THERMODYNAMICS OF LIGHT METAL COMPOUNDS
C-64362, NO. 8 N64-17459 09-13

HIGH TEMPERATURE THERMODYNAMICS OF LIGHT METAL COMPOUNDS
C-64362, NO. 9 N64-22717 15-23

LIGHT METAL FUELS AND OXIDIZER CHEMISTRY
EC-636 N64-25701 17-26

MOLECULAR GEOMETRY OF HIGH TEMPERATURE LIGHT METAL COMPOUNDS BY ELECTRIC DIPOLE DETERMINATIONS USING MOLECULAR BEAM ELECTRIC DEFLECTION
ITR-7 N64-28297 20-07

ELECTRIC DEFLECTION AND MASS SPECTROMETRIC STUDY OF HIGH TEMPERATURE THERMODYNAMICS OF LIGHT METAL COMPOUNDS
C-64362 N64-32809 24-13

LIGHT SCATTERING
CF ATMOSPHERIC SCATTERING
LIGHT SCATTERING IN HIGHLY REFLECTING PIGMENTED COATINGS - SILVER HALIDE CRYSTALS
NASA-CR-52187 N64-10089 01-19

PHOTOMETRIC STUDIES OF COMPLEX SURFACES WITH APPLICATIONS TO LIGHT SCATTERING BY LUNAR SURFACE
N64-11393 02-29

POLARIZATION DISTRIBUTION OF LIGHT IN SKY DUE TO SECONDARY SCATTERING DURING TOTAL SOLAR ECLIPSE
AD-410175 N64-12281 03-05

SCATTERING OF LIGHT FROM THIN POLYMER FILMS - BIAXIALLY ORIENTED POLYETHYLENE
ONR-TR-59 N64-13306 04-23

DIFFRACTION OF COHERENT, PARTIALLY COHERENT, AND INCOHERENT LIGHT BY PLANE APERTURE
N64-13428 05-25

EXPRESSIONS FOR WAVE LENGTH EXPONENT OF LATERAL LIGHT SCATTERING AND TURBIDITY FOR ISOTROPIC NONABSORBING SPHERES
AD-426133 N64-13984 05-23

SCATTERING OF LIGHT FROM THIN ORIENTED POLYMER FILMS
ONR-TR-RLT-57 N64-14474 06-19

LIGHT DISPERSION PHENOMENA - DOUBLE SCATTERING OF LIGHT QUANTA
TIL/T-5424 N64-14881 06-23

ATMOSPHERIC AEROSOL PARTICLE SIZE DISTRIBUTION AND INFLUENCE ON LIGHT SCATTERING PROPERTIES OF ATMOSPHERE N64-15459 07-23

LIGHT SCATTERING IN PIGMENTED SURFACE COATING WITH HIGH REFLECTION COEFFICIENT
NASA-CR-53118 N64-16757 08-23

BOLTZMANN EQUATION FOR RADIATIVE HEAT TRANSFER OF FINITE PARTICLES AND SOLUTION FOR LIGHT SCATTERING PROBLEMS
RM-3937-ARPA N64-19551 12-23

INVARIANT IMBEDDING AND SCATTERING OF LIGHT IN ONE-DIMENSIONAL MEDIUM WITH MOVING BOUNDARY - TRANSFER FUNCTION FORMULATION
RM-3960-ARPA N64-19552 12-23

FLEXIBILITY OF MOLECULES OF NATURAL DNA - DETERMINATION USING LIGHT SCATTERING AT LARGE ANGLES N64-19783 12-16

INTENSITY OF ATMOSPHERIC LIGHT SCATTERING IN ULTRAVIOLET REGION WITH ABSORPTION BY OZONE AND OXYGEN
LAS-TR-199-48 N64-21560 15-12

LIGHT SCATTERING IN PLANETARY ATMOSPHERE
NASA-TT-F-8814 N64-23124 16-29

INFLUENCE OF DISTRIBUTION OF COMPOSITION ON LIGHT SCATTERING OF STYRENE-ACRYLONITRILE COPOLYMER
REPT.-381 N64-24958 17-23

SCATTERING OF PULSED LASER LIGHT FROM PLASMAS
NASA-CR-56889 N64-27290 19-24

PRACTICAL VALIDITY OF RAYLEIGH THEORY IN LIGHT SCATTERING OF SPHERES
TR-9/55/ N64-27719 19-23

VALIDITY RANGE OF DEBYE AND RAYLEIGH EQUATIONS FOR DETERMINING MOLECULAR WEIGHTS FROM LIGHT SCATTERING
TR-10/56/ N64-27720 19-23

ANISOTROPIC LIGHT SCATTERING BY INNER FIELD FLUCTUATIONS IN DENSE MONATOMIC GAS
AD-602919 N64-30666 22-23

VERTICAL DISTRIBUTION OF AEROSOL COMPONENT IN FREE ATMOSPHERE LIGHT SCATTERING
NASA-TT-F-8946 N64-30839 22-12

SKY BRIGHTNESS MEASUREMENTS IN VISUAL AND ULTRAVIOLET REGIONS OF SPECTRUM - MULTIPLE LIGHT SCATTERING
NASA-TT-F-8955 N64-30848 22-28

OPTICAL SCATTERING TECHNIQUE FOR PLASMA DIAGNOSTICS
AFOSR-64-1143 N64-30897 22-24

DIGITAL COMPUTER METHOD FOR INVESTIGATING LIGHT DIFFRACTION BY ULTRASONIC WAVES
REPT.-6-74-64-35 N64-32307 23-23

DETERGENCY STUDY - LIGHT SCATTERING MEASUREMENTS

OF MICELLAR CHARACTERISTICS OF ANIONIC AND NONIONIC SURFACTANT MIXTURES
CCL-163 N64-32446 23-07

LIGHT SCATTERING IN HIGHLY REFLECTING PIGMENTED COATINGS - OPTICAL PROPERTIES OF SILVER BROMIDE SUSPENSIONS IN THIN FILMS
NASA-CR-59144 N64-33164 24-23

LIGHT SOURCE
SEMICONDUCTOR LASER DIODES AS LIGHT AMPLIFIERS, OXYGEN GAS LASER LIGHT SOURCES
RADC-TDR-63-429 N64-12587 04-25

ELECTROMAGNETIC RESONANCE IN SMITH-PURCELL EFFECT OF LIGHT RADIATION
PIBMRI-1198-63 N64-17308 09-23

TEMPERATURE AND EFFICIENCY DETERMINATION OF LIGHT SOURCE BY CHANGE IN ABSORPTION CAPACITY OR LUMINESCENCE OF SUBSTANCE
FTD-TT-64-153/1&2 N64-22667 15-23

HELIUM-NEON GAS LASER AS LIGHT SOURCE FOR PHOTOGRAPHIC CONTACT PRINTERS
RADC-TDR-64-120 N64-25232 17-15

EFFECTS OF VARIOUS HIGH INTENSITY LIGHT SOURCES ON RETINAL SENSITIVITY
REPT.-1549-TDR-1 N64-28288 20-16

LENGTH-MEASURING INTERFEROMETER USING CONTINUOUS GAS LASER LIGHT SOURCE
Y-1466 N64-29624 21-15

OPTIMUM LIGHT ARRANGEMENT FOR PROMOTING ALGAE GROWTH, WASTE TREATMENT UNIT DEVELOPMENT, AND MICROTERELLA ADVANCED MODEL DESCRIPTION
SERL-64-5 N64-29906 21-16

HIGH INTENSITY SPARK LIGHT SOURCE OF SHORT DURATION FOR SCHLIEREN & DIRECT SHADOW PHOTOGRAPHY
TN-SE-5-64 N64-33438 24-09

LIGHT TRANSMISSION
SA DIFFRACTION
SA FIBER OPTICS
SA ILLUMINATION
SA OPTICAL COUPLING
SA REFRACTION
CF ATMOSPHERIC REFRACTION
CF VISIBILITY
PULSE HEIGHT MAINTAINING FLEXIBLE LIGHT PIPE COUPLING BETWEEN SCINTILLATOR AND PHOTOMULTIPLIER TUBE
UR-875-18 N64-12388 03-23

LIGHT IMPULSE LOCATOR AND TRIGONOMETRIC DEVICES FOR MEASURING HEIGHT OF CLOUD BASES
N64-12792 04-21

TRANSMISSION OF POLARIZED LIGHT THROUGH ORIENTED, ANISOTROPIC, THIN POLYMER FILM
ONR-TR-67 N64-16476 08-23

COMPUTATION OF JOINT PROBABILITY DENSITY FUNCTION OF APPARENT RADIANCES IN SEVERAL SPECTRAL REGIONS
LAS-TR-199-49 N64-16957 09-12

VOICE COMMUNICATIONS SYSTEM USING LIGHT BEAMS
NASA-SP-5005 N64-18503 10-08

TRANSMISSION OF LIGHT SIGNALS BEYOND GEOMETRICAL HORIZON - ATMOSPHERIC SCATTERING
N64-19178 11-23

TRANSMISSION AND ATTENUATION OF RUBY LASER LIGHT THROUGH WATER
NRL-5941 N64-20847 14-25

DEVELOPMENT OF LIFE DETECTOR FOR PLANETARY SOILS - DETECTION BY CHANGES IN LIGHT TRANSMISSION AND IN PH FACTOR OF SELECTED MEDIUM
NASA-CR-56528 N64-22789 16-16

LIGHT TRANSMISSION IN CLEAR ATMOSPHERE UNDER VARYING HUMIDITY, TEMPERATURE, AND FOG CONDITIONS
BRL-MEMO-1561 N64-33425 24-21

LIGHTHILL MODEL
PERTURBATION SCHEME BASED ON LIGHTHILL-FREEMAN NONEQUILIBRIUM DISSOCIATION-RECOMBINATION GAS MODEL FOR STABILITY OF FLOW SYSTEM ABOUT EQUILIBRIUM POINT
RE-167 N64-31263 22-11

LIGHTING
S ELECTRIC DISCHARGE

LIGHTING EQUIPMENT
LIGHTING EQUIPMENT FOR AIRCRAFT LANDING GEAR
N64-12154 03-10

LUMINESCENT AND REFLECTIVE COATINGS AS VISUAL AIDS FOR NIGHT CARRIER LANDINGS
NRL-5973 N64-14122 05-23

TAXIWAY CENTERLINE LIGHTING FOR IMPROVING AIRPORT RUNWAY VISIBILITY
RD-64-46 N64-21013 14-10

AIRPORT LIGHTING CONFIGURATIONS FOR RUNWAY LANDING ZONES
RD-64-25 N64-26834 18-22

LIGHTNING
CF ATMOSPHERIC ELECTRICITY
CF ELECTRIC CURRENT
CF ELECTRIC DISCHARGE
CF STATIC ELECTRICITY
BALL LIGHTNING AS POSSIBLE WEAPON FOR COMBATTING BALLISTIC ROCKETS
FTD-TT-63-806/1&2 N64-12620 04-01

AIRCRAFT PROTECTION FROM THUNDERSTORM ELECTRO-MAGNETIC EFFECTS
L&T-401 N64-13874 05-04

MAGNETIC FIELD VARIATIONS IN LIGHTNING DISCHARGES
AFCRL-64-78 N64-18630 11-23

EFFECT OF CURRENT DISTRIBUTION OF LIGHTNING DISCHARGE ON ELECTROMAGNETIC RADIATION AT LONG DISTANCE N64-19699 12-12

LIGHTNING-INDUCED VOLTAGE & CURRENT IN MISSILE SITE CABLES
WL-TDR-64-21 N64-26271 18-15

LIGHTNING PROTECTION FOR AIRCRAFT FUEL SYSTEMS
FAA-ADS-18 N64-26276 18-06

LIGHTNING PROTECTION FOR AIRCRAFT FUEL SYSTEMS
FAA-ADS-17 N64-26277 18-04

RELATION BETWEEN LIGHTNING DISCHARGES AND DIFFERENT ATMOSPHERIC WHISTLERS
AFCRL-64-488 N64-26924 18-12

ATMOSPHERICS - LIGHTNING, NOISE, VERY LOW FREQUENCY EMISSIONS & SOLAR RADIO MICROWAVE EMISSIONS N64-27180 19-12

ELECTROMAGNETIC ENERGY RADIATED FROM LIGHTNING
N64-27181 19-12

ATMOSPHERICS RADIATED FROM LIGHTNING FLASHES
N64-27182 19-12

HAZARDS ENCOUNTERED BY JET AIRCRAFT FROM LIGHTNING
TR-179 N64-27854 19-04

LIGHTNING DISCHARGE CAUSED BY STATIONARY ELECTRIC FIELD INSIDE THUNDERSTORM
USAELRDL-TR-2401 N64-28601 20-21

DIRECTION FINDING NEAR LIGHTNING DISCHARGE - NAVIGATIONAL AID N64-31760 23-21

STATISTICS OF LIGHTNING DISCHARGES IN THUNDERSTORM ACTIVITY N64-31766 23-21

LIGHTWEIGHT
EVALUATION OF HIGH-STRENGTH, LIGHTWEIGHT LAMINATED PRESSURE VESSELS OF LAP-JOINT CONSTRUCTION
WAL-TR-766.2/3-4 N64-13241 04-33

LIGHTWEIGHT HEAT EXCHANGER

ASD-TR-7-936 /VI/ N64-25041 17-13

HERMETICALLY SEALED LIGHTWEIGHT FOAM INSULATION FOR LIQUID HYDROGEN TANKS OF LAUNCH VEHICLES N64-25048 17-30

LIMB
LIMB DARKENING DETERMINATION FROM TIROS III SATELLITE RADIATION MEASUREMENT
NASA-CR-56835 N64-25573 17-12

BALLISTIC MOVEMENT OF LOWER LIMBS OF HUMANS N64-28039 20-16

LIMESTONE
CF ROCK
LABORATORY METHOD TO RECOVER MANGANESE FROM SLIMES AND LIMESTONES
BM-RI-6361 N64-14802 06-07

LIMITER
YTTRIUM-IRON GARNET CRYSTAL POWER LIMITER FOR TELSTAR SATELLITE COMMUNICATIONS REPEATER N64-11086 02-06

LIMITER FOR LONG LIFE K-BAND DUPLEXER
AD-423267 N64-11751 03-09

BROADBAND MICROWAVE POWER LIMITERS - SCALING, BIAS CRYSTALS, DIODE MOUNTS, AND LOW POWER PERFORMANCE OF L BAND-S BAND UNIT
QPR-3 N64-25527 17-09

SEMICONDUCTOR SWITCHING AND LIMITING USING 3 DB SHORT SLOT /HYBRID/ COUPLERS
USAELRDL-TR-2409 N64-26557 18-09

DIRECTIONAL CRYSTAL COUPLER DEVICE USED IN FRONT OF INPUT SWITCHING DIODE - BROADBOND MICROWAVE POWER LIMITERS
QR-4 N64-26939 18-08

SURFACE FINISH OF SPHERES AND PRODUCTION OF SPHERES AND LIMITERS OF YTTRIUM-IRON GARNET /YIG/ CRYSTAL
SJ222-0045-3 N64-28502 20-09

AMPLITUDE LIMITER USING TANK CIRCUIT WITH CONTROLLED ATTENUATION N64-29476 21-09

APPLICATION OF LARGE SIGNAL NONLINEAR MICROWAVE EFFECTS IN FERROELECTRIC MATERIALS TO MICROWAVE POWER LIMITERS, PARAMETRIC AMPLIFIERS, AND HARMONIC GENERATORS
QR-3 N64-29653 21-25

PEAK POWER LIMITER FOR LARGE LASER PULSES
REPT.-1579-13 N64-32875 24-25

LINE
S DELAY LINE
S FORCE LINE
S FRAUNHOFER LINE
S H-ALPHA LINE
S LOOP
S SIGHT LINE
S SPECTRAL LINE
S TELLURIC LINE
S TETHERLINE
S TRANSMISSION LINE

LINE SHAPE
ERRORS IN NUMERICAL EVALUATION OF MOMENTS OF PARAMAGNETIC RESONANCE LINE SHAPE
SSD-TDR-64-2 N64-17899 10-23

LINE BRIGHTNESS AND STRUCTURE OF SODIUM EMISSION IN COMETS AND NOLECULAR LIFETIME
AFCRL-64-82 N64-18200 10-05

LINE SPECTRUM
LINE EMISSION AND ABSORPTION OF CHROMIUM PHOSPHORS
E-T-G-63-17 N64-12823 04-23

LINE EMISSION AND ABSORPTION OF CHROMIUM PHOSPHORS
E-T-G-63-18 N64-12824 04-23

RUBY S-SERIES ABSORPTION SPECTRAL LINE SERIES - RELATED TO CHROMIUM-ION ENERGY-LEVEL SPLITTING N64-17344 09-25

LINE BRIGHTNESS AND STRUCTURE OF SODIUM EMISSION IN COMETS AND NOLECULAR LIFETIME
AFCRL-64-82 N64-18200 10-05

NOISE-LIKE ELECTROMAGNETIC FIELDS OF ARBITRARY SPECTRAL WIDTH
TR-32 N64-23646 16-09

WIDTH OF SPECTRAL LINE OF LOW FREQUENCY AND RADIO FREQUENCY OSCILLATORS N64-23806 16-08

LINE SPECTRUM IN MAGNETIC-DIPOLE TRANSITION IN HYPERFINE STRUCTURE OF ATOM N64-27169 19-05

SPECTRAL SLIT WIDTH OF SMALL PRISM MONOCHROMATOR FOR IMAGE INTENSITY DISTRIBUTIONS
GDA-DBE-64-054 N64-32679 23-15

FOURIER ANALYSIS OF INTERFERENCE LINES FROM CRYSTAL LATTICE MICRODISPLACEMENT N64-32847 24-25

STELLAR ATMOSPHERIC ABSORPTION SPECTRUM - ANALYSIS OF LINE WIDTH AND INTENSITY
AD-423935 N64-33112 24-05

TIME AND DEPTH VARIATIONS OF LINE SPECTRA FORMED IN OUTER SOLAR ATMOSPHERE
AFCRL-64-735 N64-33274 24-28

LINEAR ACCELERATOR
CF PARTICLE ACCELERATOR
COLLIMATOR STUDY FOR LINEAR ELECTRON ACCELERATOR N64-12536 04-23

USE OF OPTICS FOR STUDY OF POSITRON TRANSFER IN LINEAR ACCELERATOR
LNF-63/70 N64-13177 04-23

STRAY MAGNETIC FIELD & RF COUPLER ASYMMETRY TOLERANCES IN SECTOR FOCUSED TWO-MILE ACCELERATOR
SLAC-20 N64-13365 04-23

VERY LONG LINEAR ACCELERATOR FACILITY - KLYSTRON, DATA HANDLING, ACCELERATOR, AND MICROWAVE SYSTEMS, STRUCTURES, AND ENGINEERING
SLAC-23 N64-13367 04-23

NUCLEAR PHYSICS STUDIES USING MESON FACILITY AND LINEAR ACCELERATOR
LAMS-3025 N64-15612 07-23

PARTICLE DYNAMICS IN STANDING WAVE ALVAREZ LINEAR ACCELERATOR WITH QUADRUPOLE FOCUSING MAGNETS
MURA-679 N64-16569 08-23

LINEAR ION ACCELERATORS - BIBLIOGRAPHY
AEC-TR-6229 N64-17529 09-23

CHARACTERISTICS OF PLASMA GENERATORS AND LINEAR ACCELERATORS N64-18070 10-23

55-MILLION ELECTRON VOLT LINEAR ACCELERATOR TO PROVIDE HIGH INTENSITY BEAMS /LINAC/ N64-18071 10-23

RADIATION EFFECTS LABORATORY FACILITIES - LINEAR ACCELERATOR, FLASH X-RAY MACHINES, COBALT 60 RADIATION SOURCE, AND HIGH VACUUM EQUIPMENT N64-20714 13-10

TWO-MILE-LONG LINEAR ELECTRON ACCELERATOR
SLAC-27 N64-21386 14-10

COMPARISON OF PROTON AND DEUTERON ACCELERATION IN LINEAR ACCELERATOR
CERN-64-22 N64-25522 17-23

LINEAR PLASMA ACCELERATOR BASED ON CROSSED ELECTRIC AND MAGNETIC FIELD
LA-3078 N64-25544 17-24

USE OF LINEAR ACCELERATOR FOR PRODUCTION OF PIONS
LNF-64/16 N64-25647 17-23

TRAVELING WAVE SEPARATOR FOR LINEAR ACCELERATOR

SLAC-17 N64-26791 18-23

ONE-INCH-SQUARE LINEAR D-C PLASMA ACCELERATOR USING CESIUM SEEDED NITROGEN
AIAA PAPER-64-699 N64-28077 20-24

ELEVATOR ILLUSION - APPARENT MOTION OF VISUAL TARGET DURING VERTICAL ACCELERATION
NASA-CR-59180 N64-33159 24-14

LINEAR ARRAY
RESOLUTION OF LINEAR ANTENNA ARRAY
AFCRL-63-539 N64-17126 09-09

NOMOGRAM FOR CALCULATING PARAMETERS OF LINEAR EQUIDISTANT RADIATOR ARRAY N64-31354 23-09

LINEAR ENERGY TRANSFER /LET/
HAZARDS OF EXPOSURE TO PROTON RADIATION DURING SPACE FLIGHT, RELATIVE BIOLOGICAL EFFECTIVENESS AND LINEAR ENERGY TRANSFER
NASA-CR-55189 N64-13186 04-16

DOSE, PARTICLE ENERGY, AND LINEAR ENERGY TRANSFER /LET/ DISTRIBUTION IN OMNIDIRECTIONALLY PROTON IRRADIATED SPHERICAL LUCITE PHANTOM
N64-15204 07-16

CORRELATION OF LINEAR ENERGY TRANSFER WITH RELATIVE BIOLOGICAL EFFECTIVENESS OF SPACE RADIATIONS
NASA-CR-58289 N64-29573 21-16

LINEAR ENERGY TRANSFER SPECTRUM OF PROTON EXPOSURE ON MERCURY MISSION MA-9
NASA-CR-58948 N64-31553 23-16

LINEAR EQUATION
CF NONLINEAR EQUATION
CLASS OF LINEAR DIFFERENTIAL EQUATIONS WITH SLOWLY CHANGING PARAMETERS - PERTURBATION FREQUENCY BY ITERATION METHOD
MH-TRANS-460 N64-11577 03-20

THREE-STAGE LEAST SQUARES METHOD FOR ESTIMATION OF COEFFICIENTS OF SIMULTANEOUS LINEAR EQUATIONS IN ECONOMICS
RM-3557-PR N64-11891 03-20

CONDITIONALITY OF MATRICES IN LINEAR EQUATIONS
E-T-R-63-8 N64-12822 04-20

GENERALIZATIONS OF ARBITRARY ELLIPTIC SYSTEM OF LINEAR PARTIAL DIFFERENTIAL EQUATIONS AND CAUCHY-RIEMANN EQUATIONS IN SEVERAL VARIABLES
AROD-2446-1 N64-13040 04-20

EQUATIONS FOR APPROXIMATE DETERMINATION OF NUMBER OF BROKEN LINES IN PIECEWISE-LINEAR APPROXIMATION
N64-13571 05-20

SCIENTIFIC COMPUTATION OF LINEAR EQUATIONS, MATRIX OPERATIONS, & CURVE FITTING BY ELECTRONIC COMPUTER PROGRAMMING
NBS-TN-203 N64-13939 05-20

ROCKET BOOSTER CONTROL - TIME-OPTIMAL BOUNDED PHASE COORDINATE CONTROL FOR SYSTEMS MODELED BY LINEAR RECURRENCE EQUATIONS
NASA-CR-55430 N64-15543 07-20

ANALOG COMPUTER FOR SOLUTION OF LINEAR SIMULTANEOUS EQUATIONS
DP-846 N64-15928 07-20

PHYSICAL AND MATHEMATIC APPROXIMATIONS APPLIED TO LINEAR EQUATION SYSTEMS, EQUATIONS WITH PARTIAL DERIVATIVES, AND SOLAR ECLIPSE OBSERVATIONS
N64-16212 08-20

LINEAR ALGEBRAIC SOLUTION OF HEAT TRANSFER EQUATIONS
FTD-TT-63-196/1&2&4 N64-16480 08-13

LINEAR DIFFERENTIAL-DIFFERENCE EQUATIONS WITH CONSTANT COEFFICIENTS N64-16676 08-20

OPEN LOOP OPTIMAL CONTROL PROBLEM FOR PLANTS REPRESENTED BY LINEAR RECURRENCE EQUATIONS - ROCKET BOOSTER CONTROL
NASA-CR-53115 N64-16759 08-06

LINEAR AND MATRIX OPERATORS IN COORDINATE SPACES
RSIC-140 N64-17639 09-20

LINEAR EQUATIONS FOR EFFECTS OF PLASTICIZER, CHAIN ENDS, AND COMONOMER ON GLASS TRANSITION TEMPERATURE OF POLYMERS
ONR-TR-RLT-75 N64-18562 11-19

LINEAR EQUATION FOR SHIP STEERABILITY - DYNAMIC STABILITY OF SHIP MOTION N64-20780 14-11

TRANSFORMER-TYPE DIFFERENTIAL ANALYZER FOR LINEAR EQUATIONS WITH CONSTANT COEFFICIENTS
FTD-TT-63-840/1&2 N64-21958 15-20

LINEAR EQUATIONS FOR CALCULATION OF AXISYMMETRICAL SUPERSONIC GAS FLOWS
FTD-TT-62-1802/1&2&4 N64-22636 15-11

APPROXIMATION METHODS FOR SOLUTION OF LINEAR AND INTEGRAL EQUATIONS FOR THERMOCONDUCTIVITY AND DIRICHLET PROBLEMS
FTD-TT-63-808/1&2 N64-23688 16-23

NUMERICAL SOLUTION OF LINEAR EQUATION OF HEAT CONDUCTION WITH SEVERAL SPATIAL VARIABLES
N64-23689 16-13

SOLUTIONS TO TWO-POINT BOUNDARY VALUE PROBLEMS FOR SECOND-ORDER SYSTEMS OF LINEAR DIFFERENTIAL EQUATIONS
RM-3857-PR N64-23906 16-20

VARIATIONAL METHOD OF APPLYING PRINCIPLES OF LEAST SQUARES TO SOLUTION OF LINEAR AND NONLINEAR EQUATIONS
MLM-1186 N64-26473 18-20

ACCURATE ALGORITHM FOR SOLUTION OF SIMULTANEOUS LINEAR ALGEBRAIC EQUATIONS
TR-26 N64-27545 19-20

ASSOCIATION OF TOPOLOGICAL STRUCTURES WITH LINEAR ALGEBRAIC EQUATIONS USING SIGNAL FLOW GRAPHS
R-211 N64-28277 20-09

SOLUTION OF LARGE SYSTEMS OF ALGEBRAIC EQUATIONS USING IBM 7090 COMPUTER
TR-33 N64-29020 21-20

COMPUTER SOLUTION OF LINEAR ALGEBRAIC SYSTEM
N64-29647 21-20

NUMERICAL ANALYSIS OF FUNCTIONAL LINEAR DIFFERENTIAL EQUATIONS BY LAPLACE TRANSFORM
RM-4089-NIH N64-30399 22-20

DYNAMIC SYSTEMS GOVERNED BY LINEAR ORDINARY DIFFERENTIAL EQUATIONS OF FINITE ORDER IN STATE VARIABLES - LINEAR SYSTEM THEORY
NASA-CR-58822 N64-30508 22-20

PROPERTIES OF ELECTROMECHANICAL TRANSMISSION-TYPE CONVERTERS BY LINEAR EQUATIONS AND EQUIVALENT CIRCUITS N64-31366 23-09

DIFFERENCE METHOD FOR DIRICHLET PROBLEM ASSOCIATED WITH QUASI-LINEAR ELLIPTIC PARTIAL DIFFERENTIAL EQUATION
MRC-494 N64-31964 23-20

TREATMENT AND SOLUTION OF RESTRICTED THREE-BODY PROBLEM AND SECOND-ORDER LINEAR DIFFERENTIAL EQUATION - PERTURBATION THEORY
SUDAER-193 N64-31998 23-23

LINEARIZED MOTION EQUATIONS FOR ROTATING FLEXIBLE BODIES
D2-22761 N64-32192 23-30

MATRIX OPERATIONS, LINEAR INTEGRAL EQUATIONS THEORY, AND DIFFERENTIAL EQUATIONS FOR DYNAMIC STABILITY OF RODS AND ELASTIC SYSTEMS
TDR-169/3560-30/TR-2, VOL. 4 N64-32303 23-20

LINEAR EQUATION FOR ALTITUDE ERROR IN LUNAR

TRANSFER ORBIT CALCULATION
NASA-TN-D-1837 N64-32401 23-29

FUNCTIONS OF MANY VARIABLES AND SOLUTION OF CAUCHY PROBLEM FOR LINEAR EQUATION SYSTEMS
FTD-MT-63-302 N64-32456 23-20

USE OF FROBENIUS SERIES IN SOLVING HOMOGENEOUS LINEAR DIFFERENTIAL EQUATIONS WITH WEAK SINGULAR POINTS
NASA-CR-58998 N64-32993 24-20

DYNAMIC PROPERTIES OF SOLUTIONS OF SECOND ORDER LINEAR DIFFERENTIAL EQUATIONS
RM-4104-PR N64-33233 24-20

LINEAR PREDICTION
BAYESIAN ESTIMATION IN MULTIVARIATE LINEAR PREDICTION
MRC-503 N64-31902 23-20

METEOROLOGICAL FIELDS - MATHEMATICAL ANALYSIS, PREDICTION AND STATISTICAL EXTRAPOLATIONS
QR-7 N64-32023 23-20

LINEAR PROGRAMMING
FINITE AUTOMATA AND LINEAR PROGRAMMING
JPRS-21444 N64-10047 01-20

MULTIDIMENSIONAL LINEAR PROGRAMMING PROBLEMS OF TRANSPORT TYPE N64-10049 01-20

OPTIMUM PRODUCTION PROGRAMMING FOR MULTIPURPOSE EQUIPMENT
DVL-272 N64-11307 02-20

LINEAR PROGRAMMING - THEORY AND APPLICATION TO PROBLEMS
R-366-PR N64-13093 04-20

LINEAR PROGRAMING FOR BLOCK-DIAGONAL MATRICES
TR-32 N64-14127 05-20

GAME THEORY - STABILITY OF VECTOR COALITIONS IN LINEAR PROGRAMMING
JPRS-23376 N64-15419 07-20

LINEAR PROGRAMMING FOR SOLUTION OF TRANSPORT PROBLEM OF PRODUCTION AND DELIVERY N64-16228 08-20

SOLUTION OF TRAVELING-SALESMAN PROBLEM BY INTEGER LINEAR PROGRAMMING N64-16229 08-20

HUMAN PERFORMANCE AND LINEAR COMPUTER PROGRAMMING FOR PROBLEM SOLVING
AD-430035 N64-16653 08-01

EXISTENCE OF LEFT INVERSE OF BASIC MATRIX AND APPLICATION TO THEOREMS OF LINEAR PROGRAMMING
ONR-RM-91 N64-17122 09-20

TECHNIQUE FOR RESOLVING DEGENERACY IN LINEAR PROGRAMMING - OPERATIONS RESEARCH N64-18929 11-20

LINEAR PROGRAMMING ALGORITHMS FOR APPROXIMATION OF MANY VARIABLE FUNCTION OVER FINITE POINT SET N64-20959 14-20

ALGORITHM FOR SOLVING TRANSPORT PROBLEMS IN LINEAR PROGRAMMING
FTD-TT-62-1498/1 N64-23399 16-20

LINEAR PROGRAMMING AND BOUNDED PHASE COORDINATE CONTROL - ROCKET BOOSTER CONTROL SYSTEM
NASA-CR-56650 N64-23851 16-30

PROBLEM SOLVING METHOD IN LINEAR PROGRAMMING
JPRS-25637 N64-26461 18-20

DYNAMIC AND LINEAR PROGRAMMING TECHNIQUES FOR NONLINEAR AND MULTIPLE-PROCESSOR PROBLEMS
TR-140 N64-26846 18-20

UNIMODULAR MATRICES AND COMBINATORIAL PROBLEMS IN LINEAR PROGRAMMING
EUR-1632.F N64-28126 20-20

LINEAR PROGAMMING METHODS FOR COOPERATIVE GAME THEORY N64-29738 21-20

NUMERICAL OPTIMIZATION BASED ON NATURAL EVOLUTION PROCESSES APPLIED TO LINEAR PROGRAMMING PROBLEMS
AD-602903 N64-29764 21-20

LINEAR PROGRAMMING UNDER UNCERTAINTY WITH DISCRETE JOINT DISTRIBUTION FOR TRANSPORTATION OR INVENTORY PROBLEMS IN OPERATIONS RESEARCH
ORC-64-13/RR/ N64-33311 24-20

LINEAR SYSTEM
DETERMINING STABILIZATION ACTION OF CONTROLLER TO MINIMIZE INTEGRAL QUADRATIC ERROR IN LINEAR CONTROL SYSTEM WITH TIME LAGS
JPRS-19822 N64-10591 01-09

IDENTIFICATION AND CONTROL OF LINEAR DYNAMIC SYSTEMS WITH UNKNOWN PARAMETERS N64-10609 01-04

LINEAR AUTONOMOUS SYSTEM WITH SINGLE CONTROL VARIABLE
NASA-CR-52929 N64-11739 03-20

ASYMPTOTIC NORMAL DISTRIBUTION OF AUTOCORRELATIONS OF LINEAR STOCHASTIC PROCESS
CU-69-63-NONR-266/33/NS N64-11940 03-20

BACKSCATTERING FROM LINEAR SCATTERER GROUNDED IN A CAVITY
AFCRL-63-355 N64-12194 03-23

OSCILLATION STABILITY ANALYSIS FOR LINEAR SYSTEMS WITH VARIABLE PARAMETERS - CYBERNETICS N64-12469 04-20

CONDITIONS FOR MUTUAL IMPLICITY OF STABILITY OF TIME-VARYING LINEAR SYSTEM AND EXPONENTIAL STABILITY OF UNFORCED SYSTEM
RM-169 N64-13235 04-20

LINEAR PULSE AMPLIFIER WITH THREE TUBES N64-13425 05-09

DIGITAL COMPUTER APPROXIMATION OF AUTOMATIC CONTROL PIECEWISE LINEAR SYSTEMS BY INTEGRAL EQUATIONS N64-14261 06-20

GLOBAL REPRESENTATION THEOREM FOR BOUNDED LINEAR FUNCTIONALS ON ORLICZ SPACES
CIT-ORD-16-TR-11 N64-15946 07-20

ROCKET BOOSTER CONTROL - QUADRATIC PENALTY FUNCTION CRITERION AND LINEAR CONTROL OF FLEXIBLE VEHICLES
NASA-CR-53121 N64-16754 08-30

OPTIMAL CONTROL PROBLEM FOR LINEAR SYSTEMS - ROCKET BOOSTER CONTROL
NASA-CR-53110 N64-16761 08-06

DYNAMIC PROCESSES IN PIECEWISE LINEAR AUTOMATIC CONTROL SYSTEMS
NASA-TT-F-132 N64-17733 09-09

FREQUENCY RESPONSE FUNCTIONS & COHERENCE FUNCTIONS FOR MULTIPLE INPUT LINEAR SYSTEMS
NASA-CR-32 N64-17989 10-20

CELLULAR LINEAR ARRAYS AND LOGICAL PROPERTIES
AFCRL-64-6 N64-18022 10-20

GRAPHIC METHOD TO DETERMINE RESPONSIVE DISPLACEMENT OF TWO-DEGREE-OF-FREEDOM DAMPED LINEAR SPRING-MASS SYSTEM MOUNTED ON SHOCK MACHINE N64-18550 11-23

ELEMENTS OF NORMAL MODE THEORY FOR DEFINING DYNAMIC RESPONSE OF LINEAR ELASTIC STRUCTURES
NRL-6002 N64-18778 11-33

COMPILER FOR THREE-ADDRESS MACHINE - OPTIMAL RATE CONTROL FOR LINEAR SYSTEM - INHIBITOR CIRCUIT DESIGN
JPRS-24055 N64-18964 11-20

LINEAR THRESHOLD FUNCTIONS FOR PATTERN RECOGNITION

BY ADAPTIVE MECHANISMS
RADC-TDR-64-32 N64-19053 11-20

METHOD OF INDETERMINANT COEFFICIENTS IN LINEAR DIFFERENTIAL SYSTEMS AND MATRIX EQUATION
MRC-452 N64-19395 12-20

PARAMETER VARIATION PROBLEM IN LINEAR MULTI-VARIABLE FEEDBACK SYSTEM DESIGN - CONTROL THEORY
R-177 N64-19403 12-20

STATE VECTOR EQUATIONS FOR PARAMETER VARIATION PROBLEM IN MULTIVARIABLE LINEAR SYSTEMS - OPTIMAL FEEDBACK CONTROL SYSTEM DESIGN
R-182 N64-19405 12-20

STATISTICAL DYNAMICS OF LINEAR SYSTEMS AND OPTIMAL SYSTEMS OF AUTOMATIC CONTROL
FTD-TT-63-468/1&2&4 N64-19748 12-20

LINEAR DIFFERENTIAL SYSTEMS FOR SOLUTION OF ENERGY CONTROL PROBLEMS
REPT.-2900-458-R N64-20082 13-20

OPTIMIZING FOR MINIMUM STEP RESPONSE TIME IN LINEAR SYSTEM WITH LIMITED CONTROL EFFORT
RES. PAPER-45 N64-20314 13-09

DISCRETE LINEAR DYNAMIC SYSTEM - REPRESENTATION PROBLEM
MEMO-2900-463-R N64-20535 13-20

ANALYTICAL METHOD OF ADJOINTS FOR DETERMINING SENSITIVITY OF LINEAR SYSTEMS FINAL STATE TO PERTURBATIONS OF SYSTEM IN TRANSIT
NASA-CR-56098 N64-20685 13-20

CONTROLLABILITY FOR LINEAR AND NONLINEAR SYSTEMS
SR-0520-54 N64-20964 14-20

FUNCTIONAL DECOMPOSITION FOR DISCRETE DYNAMIC LINEAR SYSTEMS
REPT.-2900-459-R N64-21095 14-20

DYNAMIC PROGRAMMING, EXTRAPOLATION, AND SMOOTHING USED TO TREAT ILL-CONDITIONED LINEAR SYSTEMS
RM-3815-PR N64-21715 15-20

SOLUTION OF LARGE ORDER LINEAR SYSTEM BY DIFFERENCE EQUATION
RN-173 N64-22096 15-20

OPTIMIZATION OF LINEAR CONTROL LAWS FOR SINGULAR LINEAR CONTROL SIGNAL SYSTEM
R-188 N64-22128 15-20

OPTIMAL LINEAR SWITCHING FOR SINGULAR LINEAR SYSTEMS
R-196 N64-23924 16-09

THEORY OF OPTIMAL LINEAR CONTROL SYSTEM
USCEE-105 N64-24080 16-06

SYNTHESIS OF OPTIMUM LINEAR FILTRATION SYSTEMS
FTD-TT-63-1108/1&2&4 N64-24280 17-06

STABILITY AND CONTROL OF SYSTEM WITH LINEAR REGULATOR N64-24708 17-16

MATHEMATICAL ANALYSES OF PROBLEMS OF OPTIMAL CONTROL AND LINEAR ELLIPTICAL SYSTEMS
FTD-TT-63-1075/1 N64-25439 17-06

STRUCTURE AND BOUNDARY VALUE PROBLEM OF LINEAR ELLIPTICAL SYSTEMS N64-25441 17-06

CLASS OF TESTING PROCEDURES IN LINEAR MODELS AND THEIR ASYMPTOTIC RELATIVE EFFICIENCIES
IMM-NYU-321 N64-25510 17-20

ASYMPTOTIC EFFICIENCY OF CLASS OF ESTIMATES OF CONTRASTS IN LINEAR MODELS
IMM-NYU-323 N64-25946 18-20

MULTIPLE LINEAR DISCRIMINANT ANALYSIS OF GEOLOGICAL AND GEOGRAPHIC FUNCTIONS
TR-11 N64-25981 18-20

SYNTHESIS OF OPTIMAL CONTROL PROCESS DESCRIBED BY LINEAR SYSTEM OF DIFFERENTIAL EQUATIONS
N64-26384 18-09

PASSAGE OF RANDOM SIGNALS THROUGH LINEAR DYNAMIC SYSTEM WITH DISTRIBUTED PARAMETERS
N64-26386 18-23

TRANSFORMATION OF LINEAR DISCRETE SYSTEM OF RANDOM SIGNALS GIVEN BY CANONICAL EXPANSION
N64-26387 18-09

STATIC AND DYNAMIC PERFORMANCE OF MICROPOWER TRANSISTOR LINEAR AMPLIFIERS N64-26447 18-09

PARAMETER ESTIMATION IN NOISY LINEAR SYSTEMS
M-207 N64-26764 18-09

ALGORITHM FOR SOLVING SERIAL LINEAR SYSTEMS
SC-R-64-190 N64-28271 20-20

CONTROL THEORY AND CYBERNETICS - SYNTHESIS OF OPTIMAL LINEAR SYSTEMS AND OF LOGIC NETWORKS
JPRS-25291 N64-28440 20-20

SYNTHESIS OF OPTIMAL LINEAR SYSTEMS
N64-28441 20-20

REAL TIME COMPUTATIONAL SCHEME FOR IDENTIFICATION OF LINEAR DYNAMIC SYSTEM PARAMETERS
TR-446 N64-29435 21-20

PROPAGATION OF ACCELERATION WAVES IN LINEAR THEORY OF VISCOELASTICITY
TR-28 N64-29935 21-33

UNIFIED METHOD FOR SOLUTION OF BOUNDARY VALUE PROBLEMS IN LINEAR ORDINARY SYSTEMS
REPT.-9816-6001-RU-000 N64-30141 21-20

CYBERNETICS - AUTOMATIC CONTROL SYSTEMS, ERRORS, SERVOMECHANISMS, LINEAR & NONLINEAR SYSTEMS, AND RELIABILITY
JPRS-26336 N64-30207 22-01

CALCULATION OF WEIGHTING FACTOR OF LINEAR PULSE SYSTEM BY USING KNOWN PULSE TRANSFER FUNCTION OF CONTINUOUS ACTION SYSTEM N64-30225 22-20

LINEAR THEORY OF THIN ELASTIC SHELLS
AM-64-8 N64-30532 22-33

TIME-VARYING LINEAR SYSTEMS - OPTIMIZATION
EE-559 N64-31187 22-08

CONSTANT LINEAR DYNAMICAL SYSTEMS WITH BANG-BANG CONTROLLER - COMPUTER SIMULATION OF ATTITUDE CONTROL FOR SPINNING SPACE VEHICLE
NASA-TR-R-200 N64-31732 23-09

IBM 704 COMPUTER PROGRAM LASS - LINEAR ANALYSIS OF SYSTEM STABILITY
DP-894 N64-32744 24-20

SYSTEM FUNCTIONS IN REPRESENTATION AND ANALYSIS OF LINEAR DIFFERENTIAL SYSTEMS
TR-64-4 N64-32976 24-09

ANALOG CIRCUITS FOR ENERGY AND FUEL OPTIMAL CONTROL OF LINEAR DISCRETE SYSTEMS
NASA-CR-59248 N64-33340 24-09

LINEAR FUNCTIONS OF ORDERED CORRELATED NORMAL RANDOM VARIABLES N64-33374 24-20

INVERSION OF LAPLACE TRANSFORMS FOR PARAMETER IDENTIFICATION OF LINEAR SYSTEMS
RM-4262-PR N64-33462 24-20

DIFFERENTIAL EQUATIONS OF LINEAR BANDING THEORY OF ELASTIC SHELLS
AM-64-15 N64-33506 24-33

LINEAR TRANSFORMATION
ASYMPTOTIC BEHAVIOR OF LINEAR TRANSFORMATIONS OF REAL NUMBER SEQUENCES
MRC-435 N64-13824 05-20

LINEAR VARIATION RELATION TO CURVE LENGTH BY DIFFERENTIAL GEOMETRY

MH-TRANS-443 N64-14716 06-20

CHARACTERIZATION OF LINEAR PASSIVE SYSTEMS
TR-64-7 N64-26476 18-09

PRESSURE TRANSDUCER USING LINEAR DIFFERENTIAL TRANSFORMER
TN-SE-3-63 N64-29389 21-15

PARTICLE COORDINATES AND PARTICLE MOTION AS COLLECTIVE COORDINATES FOR LINEAR TRANSFORMATION OF DEVIATION FROM UNPERTURBED ORBIT
LP-36 N64-30490 22-24

LINEAR VIBRATION
MATRIX ANALYSIS OF VIBRATIONAL THEORY OF DAMPED LINEAR DYNAMIC SYMMETRIC OR NONSYMMETRIC SYSTEMS
N64-25954 18-23

LINEARITY
CF NONLINEARITY
LINEAR THRESHOLD FUNCTIONS FOR PATTERN RECOGNITION BY ADAPTIVE MECHANISMS
RADC-TDR-64-32 N64-19053 11-20

LINEAR, GLOBAL TRAJECTORY, AND LOCAL TRAJECTORY EQUIVALENCE OF SYSTEMS OF DIFFERENTIAL EQUATIONS
AD-448771 N64-32474 23-20

LINEARIZATION
LINEARIZATION OF MULTISTEP QUANTIZER NONLINEARITY BY APPLICATION OF INDEPENDENT QUANTIZER ACTIVATORS /DITHERS/
RM-3271-PR N64-21722 15-08

QUASI-LINEARIZATION, SYSTEM IDENTIFICATION, AND PREDICTION
RM-3812-PR N64-22613 15-20

TIME OPTIMAL CONTROL AND LINEARIZED COMPENSATION IN RELAY SERVOSYSTEMS
REPT.-644 N64-27194 19-09

NUMERICAL WEATHER FORECASTING - STATISTICAL ANALYSIS OF ERRORS IN LINEARIZATION OF VORTICITY EQUATION FOR DIFFERENT ATMOSPHERIC MOVEMENTS
N64-27937 20-21

LINEARIZED TWO-DIMENSIONAL ANALYSIS OF FLOW FIELD INDUCED BY DISTURBANCE TRAVELING IN TUBE
N64-30409 22-02

NUMERICAL METHOD FOR SOLUTION OF LINEARIZED BOLTZMANN EQUATION FOR HARD SPHERE MOLECULES WITH APPLICATION TO COUETTE FLOW
R64SD53 N64-30956 22-11

LINEARIZED THEORY OF FLAT TWO-DIMENSIONAL PLANING HYDROFOIL IN CHANNEL OF FINITE DEPTH
REPT.-110.2 N64-31308 22-03

DIFFERENTIAL PROPERTIES OF BOUNDED GENERALIZED SOLUTIONS OF QUASI-LINEAR SYSTEMS
N64-31744 23-20

METHODS FOR ENLARGEMENT OF DEFLECTION ANGLE AND LINEARIZATION OF SCALE OF ELECTROMETER
N64-31854 23-15

LINEARIZED THEORY FOR SUPERCAVITATING HYDROFOIL OPERATION IN FLUID OF FINITE DEPTH
TR-119-7 N64-33651 24-11

LINER
METHOD FOR LINING STEEL TUBES WITH VINYL PLASTIC
JPRS-17468 N64-10559 01-17

LINER MATERIALS FOR FILAMENT WOUND FIBERGLASS CRYOGENIC VESSELS N64-23200 16-19

REFRACTORY MATERIAL LINERS FOR EXTRUSION BILLET CONTAINERS
ML-TDR-64-194 N64-30117 21-17

RESPONSE OF FOAM ISOLATED TUNNEL LININGS TO TRANSIENT LOADINGS
WL-TDR-64-28 N64-32204 23-34

LINK
DATA LINK OSCILLATOR FOR USE IN ROCKETBORNE METEOROLOGICAL DROPSONDE FOR UPPER ATMOSPHERE RESEARCH STUDIES
SAD-130 N64-11824 03-08

RUPTURE BEHAVIOR OF ELASTOMERS - EFFECT OF VARIANCE ON FAILURE ENVELOPE RESOLUTION AND EFFECT OF CROSSLINK DENSITY ON CURVE SHAPE AND LOCATION
NASA-CR-55213 N64-13160 04-07

DIGITAL COMPUTER OUTPUT DATA LINK AND PROGRAMMING DEVICE FOR ANALOG COMPUTER
EUR-410.E N64-15717 07-20

IONIZING RADIATION CROSS LINKING OF LINEAR POLYETHYLENE N64-22062 15-07

SPACE VEHICLE DATA LINK REQUIREMENTS - BIBLIOGRAPHY
SB-63-57 N64-23345 16-30

CLEAVAGE REACTIONS IN CROSS LINKED URETHANE ELASTOMERS
ONR-TR-RLT-82 N64-28982 20-07

LIOUVILLE EQUATION
CF PLASMA PHYSICS
CORRELATION FUNCTION CALCULATION OF LATTICE THERMOCONDUCTIVITY BY LIOUVILLE OPERATOR METHOD
USNRDL-TR-694 N64-15076 07-13

REWRITTEN LIOUVILLE EQUATION FOR STUDY OF BROWNIAN MOTION N64-16680 08-23

DERIVATION OF PLASMA EQUATION OF STATE FROM LIOUVILLE HIERARCHY
MATT-254 N64-17777 09-24

REVERSIBILITY OF LIOUVILLE EQUATIONS AND APPROACH TO EQUILIBRIUM
USNRDL-TR-734 N64-21504 15-20

LIPID
FREE RADICALS IN RAT LIVER LIPIDS & ELECTRON PARAMAGNETIC RESONANCE SIGNALS FROM LIGHT IN CRYSTALLINE CHLOROPHYLL & ITS INFRARED SPECTRA
JPRS-18213 N64-10572 01-07

LIPID PEROXIDES ROLE IN HYPEROXIA EFFECT ON RAT CENTRAL NERVOUS SYSTEM N64-14607 06-16

CHOLINOLYTIC ACTIVITY, BASICITY, AND LIPOIDOPHILIC PROPERTIES OF VARIOUS ALKYLAMINO-ETHYL ESTERS OF BENZILIC ACID N64-15385 07-11

RADIATION MEDICINE - RADIATION EFFECTS, LIPID METABOLISM, IMMUNOLOGY, AND DIAGNOSIS
ORINS-43 N64-16945 09-16

NITROGEN SOLUBILITY IN WATER AND EXTRACTED HUMAN FAT - GAS CHROMATOGRAPHIC DETERMINATION
SAM-TDR-64-1 N64-19822 12-16

INTERRELATIONSHIPS BETWEEN SERUM LIPIDS, SERUM LIPOPROTEINS, AND LIPOPROTEIN COMPOSITION
N64-22860 16-16

LIPID TRANSFER BETWEEN HIGH DENSITY AND VERY LOW DENSITY LIPOPROTEINS N64-22864 16-16

CARBOHYDRATES, PROTEINS, AND LIPID CHEMISTRY OF BLUE-GREEN ALGAE
FTD-TT-63-193/1 N64-23296 16-16

EXCRETION OF LIPIDS & LIPIDIC SUBSTANCES IN HUMAN SWEAT
REPT.-280 N64-23896 16-16

RADIATION EFFECTS - RELATION OF ARTERIAL PRESSURE & REGULATING MECHANISMS AND LIPOLYTIC ENZYME INDUCTION BY CONNECTIVE TISSUE CELLS
FTD-TT-64-329/1&2&4 N64-32544 23-16

LIPOIC ACID
LIPOIC ACID EFFECT ON REDUCTION OF CARBON DIOXIDE DURING PHOTOSYNTHESIS N64-19469 12-07

LIPSCHITZ CONDITION
ROLE OF GENERALIZED LIPSCHITZ CONDITION IN PROVING PROPERTIES OF SOLUTIONS TO DIFFERENTIAL EQUATIONS AND IN DERIVING PONTRYAGIN MAXIMUM PRINCIPLE
R-215 N64-29379 21-09

LIQUEFACTION
S CONDENSATION
S MELTING
GAS LIQUEFACTION AND CRYOGENIC RESEARCH
FTD-TT-63-268/1&2&3&4 N64-16361 08-13

LIQUID
SA SPRAY
CF FLUID
DETERMINATION OF SOUND PROPAGATION RATE IN LIQUIDS
FLUID DYNAMICS, FLIGHT MECHANICS, THERMODYNAMICS AND STRUCTURAL DYNAMICS
S.M.F. FUND PAPER-FF-34 N64-10080 01-01

DEPENDENCE OF DIELECTRIC CONSTANT & POLARIZATION OF TWO-COMPONENT ORGANIC LIQUID ON MOLECULAR INTERACTION
JPRS-17841 N64-10725 02-23

CRITICAL LOAD MEASUREMENT DURING BOILING OF LIQUIDS - STABILITY CALCULATION FOR FILM & BUBBLE BOILING REGIMES N64-11141 02-13

EVAPORATION RATES OF ORGANIC LIQUID AND SOLID LUBRICANTS IN VACUUM
NASA-TN-D-2081 N64-11992 03-19

SURFACE TENSION, BONDING, & OTHER CHARACTERISTICS OF SOLIDS & LIQUIDS
FTD-TT-62-1831/1&2&4 N64-12360 03-23

THERMOCONDUCTIVITY OF GASES & LIQUIDS OVER RANGE OF TEMPERATURES AND PRESSURES - SQUID PROJECT N64-13482 05-24

GENERALIZED DEPENDENCIES FOR CALCULATING HEAT EMISSION DURING BLISTERED BOILING OF LIQUIDS
RSIC-101 N64-13889 05-11

CHEMICAL REACTION KINETICS, THEORY OF LIQUIDS, AND OPTICAL ROTATION STUDIES
PR-3 N64-14172 06-23

MOTION OF GAS BUBBLES IN VERTICALLY VIBRATING LIQUIDS
NASA-CR-55575 N64-15389 07-11

ABSENCE OF AIR BUBBLES IN LIQUID USED IN FLOATING GYROSCOPE
FTD-TT-63-148/1&2 N64-16358 08-22

AERODYNAMIC SPATTERING IN ABLATION OF LIQUID FILMS AS RELATED TO SURFACE TENSION
AR-TR-63-24 N64-16471 08-13

EQUATIONS OF MOTION FOR LIQUID IN OSCILLATING CONTAINER
RSIC-133 N64-16497 08-11

SAFETY HAZARDS AND SENSITIVITY CHARACTERISTICS OF LIQUID EXPLOSIVE SYSTEMS
AD-431641 N64-16624 08-26

EQUATION OF STATE OF OLIGOMER AND POLYMER LIQUIDS N64-16690 08-23

THEORETICAL ANALYSIS OF LIQUID PHASE MASS TRANSFER IN WET-WALL TOWER AND MASS TRANSFER RESISTANCE AT INTERFACE OF FLOWING GAS AND LIQUID
JPRS-23592 N64-16910 09-11

THEORETICAL ANALYSIS OF LIQUID PHASE MASS TRANSFER OF WET-WALL TOWER N64-16911 09-11

CONTACT POTENTIAL METHOD FOR STUDY OF AUTOPHOBIC LIQUIDS ON PLATINUM SURFACE
NRL-6020 N64-18224 10-23

FIELD STRENGTHS OF MAGNETIC DIPOLES IN CONDUCTING EARTH & PROPAGATION OF VERY LOW FREQUENCY WAVES IN SOLIDS AND LIQUIDS
AFCRL-64-144 N64-18586 11-12

WATER-SOLUBLE SURFACTANTS OF PERFLUOROCARBON TYPE CAPABLE OF FORMING VAPOR-SECURING AGENTS FOR FLAMMABLE-LIQUID FIRE EXTINGUISHERS
NRL-6057 N64-18779 11-24

DYNAMIC NUCLEAR POLARIZATION OF LIQUIDS IN HIGH MAGNETIC FIELDS
EUR-483.E N64-19042 11-23

WEIGHTLESSNESS IN SPACE - MANEUVERABILITY, ELASTIC COMPRESSION OF OBJECTS, AND BEHAVIOR OF LIQUIDS
FTD-TT-63-300/1&4 N64-19213 11-14

RESISTIVITY AND SEEBECK COEFFICIENTS OF BISMUTH SULFIDE-CUPROUS SULFIDE SYSTEM IN LIQUID STATE
QPR-2 N64-19388 12-09

EFFECT OF ORGANIC LIQUID /DIMETHYLSULFOXIDE/ AND CAFFEINE ON PHOTOLYTIC ACTIVITY OF CHLOROPLASTS IN SOLUTION
NASA-CR-56130 N64-20705 13-16

LIQUID SURFACE LOW FREQUENCY OSCILLATIONS IN LONGITUDINALLY VIBRATED CYLINDRICAL TANK
NASA-CR-56135 N64-20721 13-11

EQUATIONS FOR MOTION AND INTERNAL ENERGY BALANCE OF SELF-GRAVITATING SPHERICAL LIQUID MASS WITH INTERNAL HEAT SOURCE
REPT. 562/07//53 N64-21164 14-23

NUCLEAR MAGNETIC RESONANCE METHOD OF MEASURING CONSUMPTION OF LIQUIDS
FDCL-TN-64-2 N64-21331 14-11

DISPERSE ATOMIZATION IN NOZZLES OPERATING ON PRINCIPLE OF BILATERAL WASHING OF LIQUID SURFACE WITH GAS
FTD-TT-63-290/1&2&4 N64-22346 15-11

ELECTROHYDRAULIC FEEDING AND ATOMIZING LIQUID FUELS AND OTHER LIQUIDS
FTD-TT-63-478/1&2 N64-22649 15-07

COMPOSITIONAL ANALYSIS OF FOIL AND LIQUID SAMPLES WITH N-COMPONENTS BY X-RAY ABSORPTION METHOD
USAELRDL-TR-2457 N64-22722 15-07

COMPUTER ANALYSIS OF GAS-LIQUID CHROMATOGRAMS N64-22861 16-16

EFFECT OF FREQUENCY DEPENDENCE OF INTERNAL FIELD ON BAND SHAPES AND INTENSITIES IN INFRARED AND RAMAN SPECTRA OF LIQUIDS
AD-431713 N64-25002 17-07

CRYSTALLIZATION OF GLASS - CONTROLLED PHASE SEPARATION DUE TO METASTABLE LIQUID IMMISCIBILITY IN SIMPLE SILICATE SYSTEMS
TR-2 N64-25900 18-19

EMBRITTLEMENT OF METALS BY ORGANIC LIQUID
IITRI-B18382-5 N64-26059 18-18

TENSIONS IN LIQUID ON VERGE OF CAVITATION IN FLOW AND NONFLOW SYSTEMS N64-26468 18-11

SHOCK SENSITIVITY OF LIQUID EXPLOSIVES
PR-10 N64-26485 18-24

RESISTIVITY AND SEEBECK COEFFICIENT MEASUREMENTS ON LIQUID THERMOELECTRIC MATERIALS
REPT.-3 N64-26678 18-25

CONFERENCE ON MECHANICS OF GASES, LIQUIDS, AND SOLIDS
FTD-TT-63-471/1&2 N64-27086 19-23

HEATING TIMES FOR SMALL ALUMINUM SAMPLES IMMERSED IN HOT ORGANIC LIQUIDS OR MOLTEN METAL
AROD-2205-8 N64-27574 19-18

PROPELLANT CHARGES AND NOZZLE CONFIGURATIONS FOR CARTRIDGE DISSEMINATION OF LIQUIDS AND POWDERS
ER-3043C N64-27776 19-17

EQUATION OF STATE AND RELATED PROPERTIES OF POLYMER AND OLIGOMER LIQUIDS
NASA-CR-56914 N64-28954 20-07

PHYSICAL THEORY OF LIQUID LASERS AND NUCLEAR PUMPING OF SEMICONDUCTOR LASERS
MHD-645 N64-29382 21-25

SURFACE TENSION OF PURE LIQUIDS FROM WATER BELL EXPERIMENTS
REPT.-3 N64-29916 21-11

MOTION OF THIN WING NEAR LIQUID SURFACE
DTMB-TRANSL-316 N64-32137 23-11

PROPERTIES OF IMMISCIBLE LIQUIDS FORMED FROM MIXTURES OF FUSED BORON OXIDE, SODIUM HALIDE, AND SODIUM METABORATE
USNRDL-TR-752 N64-33370 24-07

QUALITATIVE ANALYSIS OF BUBBLE BEHAVIOR IN VERTICALLY VIBRATING LIQUID TANK
NASA-CR-59234 N64-33511 24-11

LIQUID ATOMIZATION
ATOMIZATION OF LIQUID IN SUPERSONIC FLOW
FTD-MT-63-186 N64-28170 20-26

ELECTRICALLY ATOMIZING VOLATILE LIQUIDS
GSP/PHYS-64-1 N64-33819 24-11

LIQUID DROP
DISTRIBUTION OF LIQUID DROPLET MASS VELOCITY AND LOCAL LINEAR VELOCITY FOR GAS CORE IN AIR-WATER ANNULAR FLOWS
AERE-R-3955 N64-15225 07-11

EVAPORATION RATE OF LIQUID DROP IN STATIONARY HIGH TEMPERATURE MEDIUM
FTD-TT-63-520/1&2&4 N64-16374 08-13

LIQUID-FILLED SHELL
BENDING VIBRATION OF CIRCULAR CYLINDRICAL SHELL WITH INTERNAL LIQUID HAVING FREE SURFACE
N64-10305 01-33

EQUATIONS OF AXISYMMETRIC VIBRATIONAL FORCES ON LIQUID-FILLED THIN-WALLED CYLINDRICAL SHELLS
NASA-TT-F-219 N64-25173 17-33

EQUATIONS OF TRANSVERSE VIBRATIONS OF LIQUID-FILLED SHELLS
NASA-TT-F-216 N64-25179 17-33

LIQUID FLOW
FLOW STABILITY OF NON-NEWTONIAN LIQUID BETWEEN TWO ROTATING CYLINDERS IN PRESENCE OF CIRCULAR MAGNETIC FIELD
MRC-433 N64-12242 03-11

SEPARATION REFERENCES FOR VARIOUS TYPES OF TWO-PHASE GAS-LIQUID FLOW
DSR-8734-1 N64-14032 05-11

DIMENSIONS OF INSTRUMENTS FOR MEASURING TEMPERATURE, PRESSURE, QUANTITY, AND RATE OF FLOW OF LIQUIDS, GASES, AND VAPORS
FTD-TT-63-16 N64-15575 07-15

HEATED FILM THERMOANEMOMETER FOR LIQUID FLOW RATE MEASUREMENT
FTD-TT-63-482/1&2 N64-16371 08-11

STABILITY AND TURBULENT MOTION OF LIQUID FLOWS
FTD-TT-62-1596/1&2&3&4 N64-16402 08-11

CRITICAL HEAT FLUXES DURING LIQUID FLOW
RSIC-129 N64-17637 09-13

FORTRAN COMPUTER PROGRAM FOR ANALYSIS OF ONE-DIMENSIONAL COMPRESSIBLE FLUID FLOW PROCESS IN REAL GAS
UCRL-7530 N64-18983 11-20

DISCHARGE OF BOILING LIQUID THROUGH JET NOZZLE
FTD-TT-62-1836/1&2&4 N64-22406 15-13

HEAT TRANSFER ON SURFACE OF CYLINDER WITH AXIAL FLOW OF HIGHLY VISCOUS FLUID
FTD-TT-62-1333/1&2 N64-23404 16-11

CAVITATION HYSTERESIS IN FLOWING LIQUID
AD-436602 N64-25014 17-11

PRESSURE PULSE AND PULSE FREQUENCY RECORDER FOR PULSES IN LIQUID AND GAS FLOWS
FTD-TT-64-181/1&2&4 N64-25966 18-11

SOLID STATE FLOW MONITORING TRIP AND ALARM SYSTEM FOR REACTOR
AECL-1974 N64-28134 20-15

MOMENTUM-AVERAGED THICKNESS OF FREE LIQUID SHEETS AND ATOMIZATION OF LIQUIDS
NASA-CR-58246 N64-29006 20-15

TEMPERATURE STRATIFICATION IN LIQUIDS CONTAINED IN HEATED VESSELS - STRATIFIED LAYER FLOW MODEL
N64-32882 24-13

LIQUID STREAM DISINTEGRATION IN MOVING AIR
N64-32940 24-11

FILM BOILING OF SATURATED LIQUID FLOWING UPWARD THROUGH HEATED TUBE
TR-9857-32 N64-33589 24-13

TWO PHASE GAS-LIQUID FLOW OSCILLATIONS, INSTABILITIES, AND EXCURSIONS
DSR-8734-5 N64-33888 24-11

LIQUID GAS
SOLID GAS AND LIQUID GAS CHROMATOGRAPHY IN COMBUSTION PRODUCT ANALYSIS
AD-602228 N64-33005 24-26

LIQUID-GAS MIXTURE
POWER REQUIREMENTS FOR MIXING OF LIQUID-GAS SYSTEM
UCRL-10996 N64-11207 02-11

CARBON DIOXIDE ABSORPTION BY WATER IN VENTURI GAS-LIQUID CONTACTOR - MASS TRANSFER
N64-11653 03-11

LIQUID HELIUM
TECHNIQUES FOR MEASURING ION CURRENTS IN LIQUID HELIUM N64-14452 06-23

ION MOBILITY IN SUPERFLUID HELIUM BY COMPLETE SPACE CHARGE LIMITATION METHOD
LNF-63/79 N64-14453 06-23

TEMPERATURE & DENSITY DEPENDENCE OF ION MOBILITY IN LIQUID HELIUM 3
LNF-63/83 N64-14454 06-23

LIQUID HELIUM REFRIGERATION SYSTEM FOR MASER COOLING SYSTEM
NASA-CR-56168 N64-20740 13-06

CAPTURE COEFFICIENT OF LIQUID HELIUM AND LIQUID NEON COOLED CRYOPLATE IN SUPERSONIC LOW DENSITY AIR STREAM
AEDC-TDR-64-124 N64-22386 15-11

MAGNETIC SUSCEPTIBILITY OF FERROUS CHLORIDE TETRAHYDRATE AT LIQUID HELIUM TEMPERATURE
TR-20 N64-25656 17-23

EFFECTS OF LIQUID-HELIUM-TEMPERATURE PLASTIC DEFORMATION ON SUPERCONDUCTIVITY TRANSITIONS IN LEAD-INDIUM ALLOYS
NASA-CR-58135 N64-26594 18-23

DEVICE FOR REFILLING LIQUID HELIUM CRYOSTATS WITH SMALL LOSS OF RESIDUAL LIQUID HELIUM
NASA-RP-279 N64-28300 20-17

SPECTRUM OF ELEMENTARY EXCITATIONS IN LIQUID HELIUM II N64-29067 21-23

SATURN V LAUNCH VEHICLE HIGH PRESSURE LIQUID HELIUM STORAGE BOTTLE
NASA-CR-58784 N64-30517 22-10

NUCLEAR MAGNETIC SUSCEPTIBILITY AND SPIN-LATTICE RELAXATION TIME MEASUREMENTS OF LIQUID HELIUM 3
AD-420098 N64-31157 22-23

LIQUID HYDROGEN
LIQUID HYDROGEN UTILIZED AS PROPELLANT FOR SPACE VEHICLES LIKE CENTAUR - TRANSPORATION, SLOSHING, STORAGE, MANUFACTURE, AND INSULATION SYSTEMS

AE62-0774 N64-10128 01-26

LIQUID AIR CYCLE ENGINE SYSTEM BURNING LIQUID AIR AND HOT HYDROGEN DIRECTLY IN ROCKET CHAMBER N64-11941 03-27

SOLIDIFICATION OF LIQUID HYDROGEN AND NEON FOR CRYOGENIC-SOLID COOLING SYSTEM
REPT.-0694-01-3 N64-12999 04-26

DESIGN, EXPERIMENTAL MEASUREMENT, & ANALYSIS OF THERMAL PROTECTION SYSTEMS FOR LIQUID HYDROGEN TANKS
NASA-CR-55252 N64-13403 04-13

ENERGY-STORING MOLECULAR PRODUCTS OF RADIATION IN LIQUID HYDROGEN
NARF-62-15T N64-14037 05-19

FRICTION OF METALS, LUBRICATING COATINGS, AND CARBONS IN LIQUID NITROGEN AND HYDROGEN N64-15236 07-17

DISCHARGE COEFFICIENTS OF ORIFICE FLOW OF LIQUID HYDROGEN AND NITROGEN INTO VACUUM
NASA-CR-55329 N64-15880 07-11

POINT LEVEL SENSOR APPARATUS PERFORMANCE IN LIQUID HYDROGEN
NASA-CR-55328 N64-15881 07-15

INELASTIC SCATTERING OF MONOENERGETIC NEUTRONS IN ZIRCONIUM HYDRIDE, POLYETHYLENE, LIQUID METHANE, AND LIQUID PARA-HYDROGEN
GA-4434 N64-16128 08-23

FORMATION OF DETONATION WAVES IN LIQUID HYDROGEN-OXYGEN MIXTURE DURING COMBUSTION
NASA-TN-D-2256 N64-17751 09-26

MEASURED AND CALCULATED NUCLEAR RADIATION DISTRIBUTIONS IN LIQUID HYDROGEN
NASA-CR-54003 N64-18350 10-23

LIQUID HYDROGEN TURBINE-POWER ABSORBER AND HEAT EXCHANGER RECOVERY SYSTEMS
NASA-CR-54010 N64-18417 10-06

HIGH STRENGTH AND HIGH TOUGHNESS TITANIUM BASE ALLOY FOR LIQUID HYDROGEN PROPELLANT TANK
SM-44674 N64-18709 11-18

LOW DENSITY POLYURETHANE FOAM WITH MYLAR AND ALUMINUM FOIL THIN-FILM SEAL AS INSULATION SYSTEM FOR LIQUID HYDROGEN TANKS OF ROCKET VEHICLES N64-19371 12-13

CORRELATION OF FILM-BOILING HEAT TRANSFER COEFFICIENTS OBTAINED WITH LIQUID HYDROGEN, NITROGEN, AND FREON IN FORCED FLOW
NASA-TN-D-2294 N64-20284 13-13

ELECTROMAGNETIC INDUCTION FLOW METER FOR LIQUID HYDROGEN
NASA-CR-56128 N64-20708 13-15

PROPAGATION OF PRESSURE WAVES IN LIQUID HYDROGEN VAPOR MIXTURE
NASA-CR-54015 N64-23148 16-26

LIQUID HYDROGEN ROCKET ENGINE TECHNOLOGY
AIAA PAPER-64-270 N64-23347 16-27

LIQUID HYDROGEN USE AS SPACE FUEL N64-23909 16-26

NUCLEAR RADIATION HEATING IN LIQUID HYDROGEN
NASA-CR-54078, VOL. 1 N64-25009 17-27

NUCLEAR RADIATION HEATING IN LIQUID HYDROGEN
NASA-CR-54078, VOL. 2 N64-25011 17-13

LIQUID HYDROGEN AS PROPELLANT IN ELECTROTHERMAL ENGINE - HYDROGEN STORAGE AND EXPULSION N64-25021 17-26

FUNCTIONAL FEATURES OF LIQUID HYDROGEN TANK FOR ARC-JET FEED SYSTEM N64-25023 17-26

TITANIUM ALLOY WITH EXTRA LOW INTERSTITIAL CONTENT - LIGHTWEIGHT LIQUID HYDROGEN TANK N64-25024 17-26

MECHANICAL SUPPORT SYSTEM FOR INNER LIQUID HYDROGEN TANK OF ARC JET FEED SYSTEM N64-25025 17-26

METEOROID HAZARD TO LIQUID HYDROGEN STORAGE TANKS - PROTECTIVE MEASURES N64-25026 17-26

THERMAL RADIATION INCIDENT ON LIQUID HYDROGEN TANK DURING TRANSFER ORBIT N64-25027 17-26

THERMAL PROTECTION SYSTEM FOR LIQUID HYDROGEN STORAGE VESSEL N64-25028 17-26

PERTURBATION OF SPECTRAL FREQUENCIES BY SOLID MATRICES - ABSORPTION OF KRYPTON AT LIQUID HYDROGEN TEMPERATURE
QTSR-2 N64-25039 17-23

HERMETICALLY SEALED LIGHTWEIGHT FOAM INSULATION FOR LIQUID HYDROGEN TANKS OF LAUNCH VEHICLES N64-25048 17-30

SPECTRAL ANALYSIS OF PURE KRYPTON AND KRYPTON IN ARGON AT LIQUID HYDROGEN TEMPERATURES
E-450-P N64-26657 18-23

LUBRICANTS FOR BEARINGS OPERATING IN LIQUID HYDROGEN AND NUCLEAR RADIATION ENVIRONMENT
NASA-CR-56947 N64-27311 19-17

POOL HEATING OF LIQUID HYDROGEN IN SUBCRITICAL AND SUPERCRITICAL PRESSURE REGIMES OVER RANGE OF ACCELERATIONS - EFFECT ON NUCLEATE BOILING
NASA-TM-X-52039 N64-28082 20-13

PRODUCTION OF LIQUID-SOLID MIXTURES OF HYDROGEN - HYDROGEN SLUSH
APL-TDR-64-22 N64-29652 21-23

THERMAL STRATIFICATION OF LIQUID HYDROGEN IN ROCKET PROPELLANT TANKS
ER-6759 N64-29672 21-11

LIQUID HYDROGEN BUBBLE CHAMBER WITH MOVABLE TOP WINDOW
UCRL-11384 N64-30804 22-10

MATERIALS SELECTION AND MECHANICAL DESIGN FOR EXPERIMENTAL LIQUID HYDROGEN PUMP FOR FLIGHT VEHICLE SYSTEMS
R-5343-3 N64-31278 22-17

COMPRESSIBILITY OF LIQUID HYDROGEN TO 40,000 ATMOSPHERES AND 1100 DEG K
UCRL-7833 N64-32795 24-23

GELLING OF LIQUID HYDROGEN
NASA-CR-54055 N64-33076 24-26

MATERIAL TESTING & PERFORMANCE CHARACTERISTICS OF EXPERIMENTAL HYDROGEN PUMP FOR FLIGHT VEHICLE SYSTEMS
R-5343-2 N64-33505 24-17

MUON COUPLING PARAMETERS FROM RADIATIVE MUON ABSORPTION IN LIQUID HYDROGEN
LNF-64/26 N64-33895 24-23

EXPERIMENTAL LIQUID HYDROGEN PISTON PUMP
R-5730 N64-33963 24-17

LIQUID INJECTION
S FUEL INJECTION

LIQUID LASER
RUBY, GAS, AND LIQUID LASER DEVELOPMENT
FTD-TT-64-565/1&2&3&4 N64-32045 23-23

LIQUID LEVEL
HOT-WIRE STILLWELL LIQUID LEVEL SENSOR SYSTEM FOR USE WITH CRYOGENIC FLUIDS
NASA-TN-D-2074 N64-10466 01-15

CARBON RESISTORS FOR CRYOGENIC LIQUID-LEVEL MEASUREMENT

NASA-CR-55333 N64-14272 06-15

RESONANT CAVITY METHOD FOR MEASURING LIQUID LEVEL IN METAL VESSEL - LEVEL GAUGE
FTD-TT-63-562/1&2&4 N64-23304 16-15

FORTRAN COMPUTER PROGRAM TO CALCULATE RELATIVE LIQUID LEVELS IN TWO INTERCONNECTED TANKS WITH DIFFERENT FLOW RATES
NASA-CR-56826 N64-27279 19-11

LIQUID METAL
ANALYSES FOR OXYGEN IN LIQUID ALKALI METALS
NASA-CR-52184 N64-10088 01-18

LIQUID METALS AS HEAT TRANSFER AND THERMODYNAMIC WORKING FLUIDS FOR AEROSPACE ELECTRIC POWER SUPPLY
N64-10176 01-18

SURFACE TENSION DETERMINATIONS OF LIQUID METALS, SOLIDS, AND LIQUIDS
JPRS-17447 N64-10677 02-23

SURFACE TENSION MEASUREMENT OF LIQUID METALS BY SESSILE-DROP METHOD IN PROTECTIVE ATMOSPHERES
N64-10679 02-23

BIBLIOGRAPHY ON LIQUID METALS
TID-3544/REV. I/ N64-11288 02-18

SEPARATION OF SOLUTES BY COUNTER-CURRENT TECHNIQUE INVOLVING OXIDATION-REDUCTION REACTIONS IN SALT-LIQUID METAL SYSTEMS
IS-660 N64-11437 02-07

PHYSICAL AND NUCLEAR PROPERTIES OF GASEOUS, LIQUID, METAL, AND LIQUID METAL COOLANTS
FTD-TT-61-478 N64-11587 03-23

HALL EFFECT IN LIQUID METALS N64-12348 03-23

DELAYED FAILURE IN STRUCTURAL MATERIALS WETTED BY LIQUID METALS AND UNDER STATIC LOADING CONDITIONS
IITRI-B183-14 N64-12872 04-18

HEAT TRANSFER IN BOILING LIQUID METALS
AD-423769 N64-12981 04-13

CRITICAL TWO-PHASE FLOW OF STEAM-WATER MIXTURES WITH APPLICATION TO LIQUID-VAPOR METAL SYSTEMS IN PIPES
ANL-6779 N64-13292 04-11

DELAYED FAILURE IN PRESENCE OF LOW MELTING LIQUID METALS
ARF-B183-13 N64-13897 05-18

AXIAL HEAT-FLOW APPARATUS FOR DETERMINING THERMO-CONDUCTIVITY OF MOLTEN SAMPLE OF LITHIUM METAL
ORNL-3390 N64-14058 05-13

COMPATIBILITY OF LIQUID CESIUM WITH CONTAINMENT METALS
MSAR-63-172 N64-14356 06-18

HIGH TEMPERATURE PUMP AND SUMP FOR LIQUID SODIUM-POTASSIUM ALLOY
PWAC-385 N64-14872 06-06

LIQUID METAL BOILING HEAT TRANSFER
RTD-TDR-63-4130 N64-15097 07-13

LIQUID METALS AS WORKING FLUIDS FOR POWER-GENERATION SYSTEMS N64-15239 07-06

BEARING LUBRICATION WITH LIQUID METALS
N64-15240 07-18

MATRIX, SEAL, & ELECTROLYTE DEVELOPMENT FOR THERMALLY REGENERATIVE LIQUID METAL FUEL CELL FOR CONVERSION OF HEAT DIRECTLY INTO ELECTRIC ENERGY
EDR-3344 N64-15624 07-06

RESISTIVE CELL STUDIES, COARSE-GRAIN-COMPOSITE STRENGTH & CONDUCTIVITY, FINE-GRAIN-COMPOSITE PREPARATION, AND DESIGN OF SMALL LIQUID METAL CELL
N64-15625 07-09

CURVES OF X-RAY SCATTERING INTENSITY AND OF ATOMIC DISTRIBUTION OF LIQUID METALS N64-16224 08-23

PROCESSING METHOD FOR MOLTEN METALS USING ELECTRO-MAGNETIC FORCES
FTD-TT-63-495/1 N64-16372 08-17

LIQUID METAL LUBRICANTS FOR HIGH TEMPERATURE USE
FTD-TT-63-574/1&2&4 N64-16427 08-17

ELECTROLYTE MATRIX FOR LIQUID POTASSIUM-MERCURY FUEL CELL
NASA-CR-53108 N64-16747 08-06

NUCLEAR LIQUID METAL CELL SYSTEM FOR SPACE POWER SUPPLIES N64-17411 09-06

METAL CASTING TECHNIQUE - VACUUM AND INERT GAS PROCESS FOR REFINING MOLTEN METALS
AD-432974 N64-17484 09-17

LIQUID METAL MAGNETOHYDRODYNAMIC GENERATOR
N64-17902 10-06

INDUCTION-COUPLED LIQUID METAL MAGNETOHYDRODYNAMIC CHANNEL FLOW N64-17903 10-24

LIQUID METAL MAGNETOHYDRODYNAMIC GENERATOR
ASD-TDR-63-700 N64-18036 10-24

LIQUID METAL REGENERATIVE FUEL CELL AND CONDUCTIVITY STUDIES ON CERAMICS
EDR-3673 N64-18073 10-06

LIQUID METAL REGENERATIVE FUEL CELL - CERAMIC MATERIALS
EDR-3547 N64-18074 10-06

THERMODYNAMIC AND TRANSPORT PROPERTIES OF LIQUID AND VAPOROUS POTASSIUM
NASA-CR-54017 N64-18293 10-18

CONVECTION LIQUID METAL HEAT TRANSMISSION IN ROCKET NOZZLE
ABL/Z-69 N64-18791 11-13

LEVEL GAUGE FOR DETECTION OF LIQUID METALS
PWAC-423 N64-19283 11-15

THERMIONIC CONVERTER MODULE FOR LIQUID METAL HEATING
APL-TDR-64-36 N64-19667 12-06

HEAT TRANSFER AND FLOW STUDIES OF LIQUID METAL BOILING
REPT. 05750-9-P N64-19732 12-13

HIGH TEMPERATURE THERMOPHYSICS - LIQUID METALS, GASEOUS HEAT TRANSFER, AND PLASMA GENERATORS
FTD-TT-63-1090/1 N64-19755 12-23

DIFFUSION OF POTASSIUM IN LIQUID METAL CELL
EDR-3814 N64-19798 12-06

POTASSIUM-MERCURY LIQUID METAL CELLS - HIGH HEAT TRANSFER, HIGH CURRENT DENSITY, & THERMAL AND ELECTRICAL REGENERATION CAPABILITIES
N64-19835 12-06

POSSIBILITY OF PRODUCING REACTOR CORES FOR LIQUID METAL LINEAR GENERATOR N64-19849 12-06

LIQUID METAL VALVES FOR LITHIUM COOLED REACTOR EXPERIMENT /LCRE/
PWAC-401, PT. II N64-19904 12-23

ENERGY CONVERSION BY LIQUID METALS & ALKALI METALS IN MAGNETOHYDRODYNAMIC GENERATORS AND THERMIONIC ENERGY CONVERSION
AD-436857 N64-20159 13-06

LIQUID MAGNESIUM REGENERATIVE FUEL CELL
EDR-3740 N64-20167 13-06

THERMOELECTRIC POTENTIAL OF REFRACTORY AND LIQUID METALS N64-20479 13-23

DELAYED FAILURE IN HIGH STRENGTH METALS WETTED BY EMBRITTLING LIQUID METALS
IITRI-B183-16 N64-20566 13-18

LIQUID METAL CORROSION PROCESSES
NASA-SP-41 N64-20783 14-01

LIQUID METAL TECHNOLOGY N64-20784 14-06

LIQUID METAL CORROSION AS DISSOLUTION PHENOMENON - MASS TRANSFER PROCESSES N64-20785 14-18

CHEMICAL CORROSION BY LIQUID METALS N64-20786 14-07

LIQUID METAL CORROSION OF SOLID METALS - DIFFUSION EFFECTS N64-20787 14-07

SOLID METAL CORROSION BY LIQUID METAL - SOLUTION CONTROLLED PROCESSES N64-20788 14-07

OXYGEN IMPURITY EFFECTS ON LIQUID METAL CORROSION OF SOLID METALS N64-20789 14-07

NITROGEN AND HYDROGEN IMPURITIES IN LIQUID METAL CORROSION OF SOLID METALS N64-20790 14-07

CARBON IMPURITY EFFECTS ON LIQUID METAL CORROSION PROCESSES N64-20791 14-07

INHIBITORS AND ACCELERATORS IN LIQUID METAL CORROSION N64-20792 14-07

HETERONETALLIC PHENOMENA IN LIQUID METAL SYSTEMS N64-20793 14-18

LIQUID ALKALI METAL REACTION WITH NONMETALLIC SOLIDS - CERAMICS N64-20794 14-19

GRAPHITE IN LIQUID ALKALI METAL SYSTEMS N64-20795 14-19

VAPOR PHASE IN LIQUID METAL CORROSION PROCESSES N64-20796 14-13

CORROSION IN ISOTHERMAL REGIONS OF LIQUID METAL BOILING LOOPS - DOWNSTREAM EFFECT N64-20798 14-07

LIQUID METAL EMBRITTLEMENT OF SOLID METALS N64-20799 14-18

RADIATION EFFECT ON LIQUID METAL CORROSION N64-20800 14-23

CORROSION BY LIQUID METALS N64-20801 14-07

BOILING STABILITY AND LIQUID METAL CORROSION TESTS N64-20804 14-13

HEAT TRANSFER AND FLUID-MECHANICS INFLUENCE ON LIQUID METAL CORROSION N64-20805 14-07

PHYSICAL PROPERTIES OF LIQUID METALS IN REGION OF MELTING AND BOILING POINT
EUR-599.D N64-21004 14-18

INTERACTION OF FREE-SURFACE WAVES ON LIQUID METALS WITH TRANSVERSE MAGNETIC FIELDS
NASA-TR-R-161 N64-21256 14-11

THERMIONIC GENERATOR EVALUATED FOR SUITABILITY FOR LIQUID METAL HEATING IN SPACE RADIATOR CONFIGURATION
PWA-2337 N64-21358 14-06

SOLUBILITY AND DIFFUSION STUDIES OF TRANSITION ELEMENTS IN LIQUID ALKALI METALS
AI-64-75 N64-21476 14-18

OPTIMUM GEOMETRY OF INDUCTION PUMPS FOR LIQUID METALS
FTD-TT-62-1724/1&2 N64-23291 16-11

WETTING OF SOLID SURFACES BY LIQUID METALS N64-23317 16-13

LIQUID METAL CONDENSATION
ASD-TDR-62-1048, PT. III N64-24050 16-13

MATERIAL RESISTANCE TO CAVITATION DAMAGE IN HANDLING LIQUID SODIUM IN SPACE POWER SYSTEMS
AIAA PAPER-64-363 N64-24904 17-18

HIGH TEMPERATURE LIQUID METAL TECHNOLOGY FOR REACTOR ENGINEERING
BNL-866/PR-8/ N64-24959 17-27

TWO-PHASE HEAT TRANSFER & FLUID FLOW DATA FOR SODIUM & POTASSIUM UNDER BOILING & CONDENSING CONDITIONS
NASA-CR-54038 N64-25905 18-13

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IS-799 N64-26029 18-18

ELECTRON BOMBARDMENT HEATING FOR BOILING LIQUID METALS
ANL-6869 N64-26483 18-13

ENGINEERING AND HEAT TRANSFER PROPERTIES OF LIQUID METALS
NAA-SR-8617, VOL. I N64-26692 18-18

POTASSIUM-MERCURY LIQUID METAL CELLS - STORAGE BATTERY N64-27112 19-06

RESISTIVITY AND HALL EFFECT IN LIQUID METALS
AD-439050 N64-27174 19-25

VACUUM DRY BOX FOR CAVITATION DAMAGE TESTING OF LIQUID REFRACTORY METALS
NASA-CR-56843 N64-27278 19-18

HEATING TIMES FOR SMALL ALUMINUM SAMPLES IMMERSED IN HOT ORGANIC LIQUIDS OR MOLTEN METAL
AROD-2205-8 N64-27574 19-18

LIQUID METAL BOILING HEAT TRANSFER STUDY
REPT.-04526-15-F N64-27610 19-13

THERMOPHYSICAL AND TRANSPORT PROPERTIES OF LIQUID METALS
MSAR-64-36 N64-27702 19-13

SEALING TECHNIQUES FOR HIGH SPEED ROTATING SHAFTS OPERATING IN HIGH TEMPERATURE LIQUID METALS AND VAPORS
QR-8 N64-27918 20-17

PROCEDURE FOR USING LIQUID-METAL SEAL IN ULTRAHIGH VACUUM SYSTEM N64-28210 20-17

LIQUID METAL EXPANSION TECHNIQUE FOR MEASURING TOTAL AERODYNAMIC HEATING RATES TO HYPERSONIC REENTRY VEHICLES OF COMPLEX SHAPE
NASA-TN-D-2446 N64-28333 20-02

LIQUID MAGNETOHYDRODYNAMIC POWER CONVERSION
AIAA PAPER-64-760 N64-28411 20-06

HEAT TRANSFER DURING FILM CONDENSATION OF LIQUID METAL VAPOR
TR-9167-27 N64-28687 20-13

PRESSURE TRANSDUCERS AND MEASUREMENT SYSTEMS FOR CLOSED CYCLE LIQUID METAL FACILITIES
NASA-CR-54140 N64-28736 20-15

THEORY AND OPERATION PRINCIPLE OF LIQUID METAL SWITCH
NASA-CR-58339 N64-28992 20-06

THERMIONIC GENERATORS SUITABLE FOR LIQUID-METAL HEATING IN SPACE RADIATOR CONFIGURATIONS
PWA-2303 N64-29449 21-06

HIGH TEMPERATURE LIQUID METAL TECHNOLOGY
BNL-801/PR-2/ N64-29749 21-18

LIQUID LITHIUM FOR COOLING SOLID PROPELLANT ROCKET NOZZLES
A-P-FR-5601 N64-29752 21-13

MAGNETOHYDRODYNAMICS OF LIQUID METALS IN ELECTROMAGNETIC FIELDS
JPRS-26459 N64-29949 21-24

THERMOPHYSICAL AND TRANSPORT PROPERTIES OF LIQUID METALS
MSAR-64-78 N64-30576 22-18

THERMIONIC CONVERTER FOR LIQUID METAL HEATING IN SPACE RADIATOR
PWA-2275 N64-30701 22-06

THERMIONIC GENERATOR DEVELOPING POTENTIAL VOLTAGE FROM LIQUID METAL HEAT SOURCE
QTR-7 N64-32605 23-06

LIQUID METAL TECHNOLOGY FOR HIGH TEMPERATURE HEAT TRANSFER, WORKING FLUID, AND ELECTRICAL APPLICATIONS N64-32772 24-18

BROMINE TRIFLUORIDE METHOD FOR DETERMINATION OF OXYGEN CONTENT IN LIQUID ALKALI METALS
NASA-CR-58942 N64-33098 24-10

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NASA-CR-59028 N64-33194 24-18

PERFORMANCE CHARACTERISTICS OF LIQUID METAL MAGNETOHYDRODYNAMIC GENERATOR
ANL-6870 N64-33236 24-24

PRESSURE TRANSDUCERS FOR LIQUID METAL SYSTEMS
NASA-CR-54193 N64-33376 24-15

LIQUID METAL COOLED REACTOR /LMCR/
SA LOS ALAMOS MOLTEN PLUTONIUM REACTOR /LAMPRE/ LITHIUM COOLED REACTOR EXPERIMENT PRIMARY COOLANT PUMPS AND SUMP
PWAC-383 N64-10825 02-17

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HW-66666, REV. 2 N64-11947 03-10

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NASA-CR-53017 N64-13280 04-23

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NAA-SR-6262 N64-14406 06-23

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PWAC-422 N64-16000 07-15

BOILING WATER- AND LIQUID METAL-COOLED REACTORS - GENERAL REACTOR TECHNOLOGY, ADVANCED SYSTEMS AND NUCLEAR SAFETY
ANL-6840 N64-16299 08-23

ROTATION OF REACTOR CONTROL DRUMS IN LITHIUM COOLED REACTOR EXPERIMENT PRODUCED BY HARMONIC DRIVE
PWAC-412 N64-17718 09-17

LITHIUM COOLED REACTOR EXPERIMENT DESIGNED AS TEST FOR HIGH TEMPERATURE, INTERMEDIATE-FAST-FLUX REACTOR
PWAC-416 N64-17719 09-06

LIQUID-METAL-COOLED AND WATER-COOLED THERMIONIC REACTOR COLLECTOR SURFACE - CESIUM HYDRIDE COATING
GA-4804 N64-18707 11-06

TECHNOLOGY OF BOILING WATER AND LIQUID METAL COOLED REACTORS
ANL-6904 N64-23326 16-23

DESIGN ANALYSIS, INSTRUMENTATION, CONTROL, AND SAFETY OF SODIUM COOLED FAST BREEDER REACTOR
CEND-200, VOL. 2 N64-25561 17-23

LIQUID METAL FAST BREEDER REACTOR DESIGN STUDY
GEAP-4418, VOL. 1 N64-25563 17-23

BOILING WATER REACTORS, LIQUID METAL COOLED REACTORS, REACTOR TECHNOLOGY, AND ADVANCED SYSTEMS RESEARCH
ANL-6912 N64-28928 20-23

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ANL-6923 N64-29774 21-23

LIQUID OXIDIZER
CONSTRUCTION AND CALIBRATION OF APPARATUS FOR STUDY OF LIQUID OXIDIZERS CONTAINING FLUORINE
AD-429849 N64-16849 08-26

ELASTOMER RING SEALS FOR LIQUID ROCKET FUEL AND OXIDIZER SYSTEM
ASD-TDR-63-496 N64-16870 08-19

SOLUTION AND CONDUCTIVITY OF FLUORINE-CONTAINING LIQUID OXIDIZER
REPT.-144-Q3 N64-20573 13-26

THERMODYNAMIC CALCULATIONS FOR LIQUID OXIDIZER AND SOLID FUEL COMBINATIONS IN HYBRID ROCKETS
FA-R-1715 N64-22274 15-27

SOLUTION AND CONDUCTIVITY STUDIES IN FLUORINE-CONTAINING LIQUID OXIDIZER
REPT.-144-Q4 N64-27566 19-26

HANDLING AND STORAGE OF LIQUID PROPELLANTS AND OXIDIZERS
AD-442849 N64-30556 22-26

LIQUID OXYGEN /LOX/
EXPLOSIVE PROPERTIES OF OZONE IN LIQUID OXYGEN UNDER HIGH PRESSURE PULSE
FTD-TT-62-1460/1&2&4 N64-11153 02-07

FORMATION OF DETONATION WAVES IN LIQUID HYDROGEN-OXYGEN MIXTURE DURING COMBUSTION
NASA-TN-D-2256 N64-17751 09-26

NEUTRON BEAM ENERGY DETERMINED BY DIFFUSION THROUGH LIQUID NITROGEN AND OXYGEN
FTD-MT-63-82/1&2&3&4 N64-18677 11-23

RADIATION MEASUREMENTS OF COMBUSTION OF LIQUID OXYGEN JETS IN HIGH PRESSURE HYDROGEN ATMOSPHERE
NASA-TM-X-52023 N64-20576 13-26

PRODUCTION OF LIQUID OXYGEN USING AVERAGE PRESSURE SYSTEM AND NITROGEN COOLING
FTD-TT-63-113/1&2&4 N64-22190 15-26

HYDROCARBON TRACES IN ATMOSPHERE AND LIQUID OXYGEN
FTD-TT-62-1665/1&2&4 N64-22627 15-07

EXPERIMENTAL SLOSHING CHARACTERISTICS AND MECHANICAL ANALOGY OF LIQUID SLOSHING IN SCALE MODEL CENTAUR LIQUID OXYGEN TANK
NASA-TM-X-999 N64-26838 18-11

FRICTION, WEAR, AND DYNAMIC SEAL STUDIES IN LIQUID FLUORINE AND LIQUID OXYGEN
NASA-TN-D-2453 N64-27945 20-17

CHEMICAL PROPERTIES & SOLUBILITY OF OZONE FLUORIDE IN LIQUID OXYGEN AND HYPERGOLIC IGNITION BETWEEN HYDROGEN AND LIQUID OXYGEN
NASA-CR-54072 N64-32632 23-26

PERFORMANCE AND STABILITY CHARACTERISTICS OF ROCKET ENGINE INJECTORS USING LIQUID OXYGEN PROPELLANT
NASA-TM-X-53126 N64-33870 24-27

EFFECT ON LAUNCH PROBABILITY DUE TO ADDITION OF 30 PERCENT BY WEIGHT LIQUID FLUORINE TO 70 PERCENT LIQUID OXYGEN IN ATLAS BOOSTER
GD/A-DDB-64-024 N64-33874 24-26

LIQUID PROPELLANT
LIQUID HYDROGEN UTILIZED AS PROPELLANT FOR SPACE VEHICLES LIKE CENTAUR - TRANSPORATION, SLOSHING, STORAGE, MANUFACTURE, AND INSULATION SYSTEMS
AE62-0774 N64-10128 01-26

DISCHARGE COEFFICIENTS OF ORIFICE FLOW OF LIQUID HYDROGEN AND NITROGEN INTO VACUUM
NASA-CR-55329 N64-15880 07-11

UNSTEADY BURNING OF LIQUID FUEL DROPLETS AND PERIODIC SOLUTIONS OF FUEL INJECTION PROCESSES
NASA-CR-55516 N64-15904 07-26

LIQUID PROPELLANT SENSITIVITY - CRYOGENIC ADAPTATION OF SHOCK TUBE
IITRI-C602V N64-16658 08-26

ELASTOMER RING SEALS FOR LIQUID ROCKET FUEL AND OXIDIZER SYSTEM
ASD-TDR-63-496 N64-16870 08-19

COMPATIBILITY OF POLYETHYLENE FILTER MEMBRANES WITH LIQUID PROPELLANTS AND SOLVENTS
RPL-TDR-64-38 N64-21452 14-19

VAPOR PRESSURIZATION SYSTEM FOR USE WITH LIQUID PROPELLANTS
REPT.-8290-5S N64-22009 15-06

WELDED METAL BELLOWS - RELIABLE EXPULSION DEVICE FOR LIQUID PROPELLANTS
AIAA PAPER-64-264 N64-23611 16-26

HYDRODYNAMIC FORCES FROM SLOSHING LIQUID PROPELLANTS IN MISSILE FUEL TANKS
ONERA-TP-136 N64-24004 16-11

IGNITION DELAYS OF HYPERGOLIC LIQUID ROCKET PROPELLANTS
WSS/CI PAPER-64-12 N64-24376 17-26

THEORY & DESIGN OF THERMAL ROCKET ENGINES USING LIQUID & SOLID PROPELLANTS
FTD-TT-63-454/1&2 N64-25453 17-27

FUNDAMENTALS OF LIQUID PROPELLANT SENSITIVITY TO SHOCKS
IITRI-C6024-8 N64-25501 17-26

TECHNIQUES FOR IMPROVING DETECTION OF CONTAMINANTS IN LIQUID PROPELLANTS - BIBLIOGRAPHY
REPT.-2638 N64-25889 18-26

PERFORMANCE DATA OF BENZENE-TOLUENE ROCKET PROPELLANT WITH NITRIC ACID OXIDIZER
DVL-300 N64-26283 18-13

PERFORMANCE OF TITANIUM ALLOY TANKAGE FOR CRYOGENIC LIQUID PROPELLANTS
SM-43116 N64-27409 19-17

HIGH TEMPERATURE ENVIRONMENT FOR HYDRAULIC FLUIDS, ELECTRONIC COOLANTS, FUELS, AND LUBRICANTS
N64-28180 20-26

HANDLING AND STORAGE OF LIQUID PROPELLANTS AND OXIDIZERS
AD-442849 N64-30556 22-26

SHOCK TUBE TESTS FOR LIQUID PROPELLANT SENSITIVITY
IITRI-C6024-12 N64-33573 24-26

LIQUID PROPELLANT ROCKET ENGINE
CRITERION OF OPERATIONAL STABILITY OF LIQUID PROPELLANT ROCKET ENGINE
FTD-TT-63-491/1&2&4 N64-11190 02-27

COMBUSTION INSTABILITY OF SOLID AND LIQUID PROPELLANT ROCKET ENGINES N64-16559 08-26

UNCOOLED THRUST CHAMBER MATERIALS FOR USE IN STORABLE LIQUID PROPELLANT ROCKET ENGINE
NASA-CR-53367 N64-17820 09-27

LIQUID & SOLID PROPELLANT ROCKET ENGINES - OPERATION, CHARACTERISTICS, CLASSIFICATION, AND DEVELOPMENT FOR MILITARY USE
FTD-MT-63-44/1&2 N64-18671 11-27

COMBUSTION VIBRATION IN LIQUID FUEL ROCKET ENGINES AND JET ENGINES
FTD-TT-62-942/1&2 N64-18890 11-26

LIQUID PROPELLANT ROCKET ENGINES - OPERATION, COOLING, PROPELLANT FEEDING & COMBUSTION, AND LIQUID PROPELLANTS
FTD-TT-63-1063/1&2&4 N64-21939 15-27

STRUCTURAL DESIGN OF LIQUID PROPELLANT ROCKET ENGINES
FTD-TT-63-346/1&2&3&4 N64-22348 15-27

OPERATIONAL FAILURES OF LIQUID PROPELLANT ROCKET ENGINES
FTD-TT-63-357/1&2 N64-23426 16-26

THERMODYNAMIC EQUILIBRIUM ON LIQUID ROCKET ENGINE COMBUSTION CHAMBER WALLS
FTD-TT-63-571/1&2&4 N64-23629 16-01

DEFLECTIONS OF COMBUSTION CHAMBER SHELLS IN LIQUID ROCKET ENGINES N64-23630 16-26

LOCAL STABILITY OF LIQUID ROCKET ENGINE COMBUSTION CHAMBER INNER WALL N64-23631 16-26

LOCAL DEFLECTION IN SHELLS OF COMBUSTION CHAMBER OF LIQUID PROPELLANT ROCKET ENGINE
N64-23632 16-23

THERMODYNAMIC ANALYSIS & HEAT CALCULATION IN HIGH VELOCITY COMBUSTION CHAMBER OF LIQUID PROPELLANT ROCKET ENGINE N64-23633 16-13

MATHEMATICAL DESCRIPTION OF GEOMETRIC CONFIGURATION OF LIQUID PROPELLANT ROCKET BOOSTER FOR TRAJECTORY AND PERFORMANCE PREDICTION
NASA-TM-X-53026 N64-27244 19-34

NONLINEAR COMBUSTION INSTABILITY IN LIQUID PROPELLANT ROCKET ENGINES
NASA-CR-56946 N64-27287 19-26

PROPERTIES OF HIGH TEMPERATURE GASES AND FLUIDS, COMBUSTION AND PROPULSION PROCESSES, AND COMBUSTION STUDIES IN SOLID AND LIQUID PROPELLANT ROCKET ENGINES N64-28176 20-11

EFFECTS OF ATOMIZATION AND INJECTION PROCESSES ON PERFORMANCE OF LIQUID PROPELLANT ROCKET ENGINE
N64-28182 20-26

COMBUSTION STABILITY IN LIQUID PROPELLANT ROCKET ENGINES N64-28194 20-26

COMBUSTION INSTABILITY IN LIQUID PROPELLANT ROCKET ENGINES N64-28594 20-26

COOLING THRUST CHAMBER OF LIQUID PROPELLANT ROCKET ENGINE USING PYROLYTIC GRAPHITE AND HYDROCARBON FILM
NASA-CR-58249 N64-29196 21-27

EFFECTS OF HIGH CHAMBER PRESSURE, INJECTOR TYPE & SIZE, & THRUST CHAMBER LENGTH ON COMBUSTION STABILITY OF LIQUID PROPELLANT ROCKET ENGINES
NASA-CR-56672 N64-29706 21-27

RADIAL DIAPHRAGM SEPARATED INJECTION METHOD FOR VARIABLE THRUST LIQUID ROCKET ENGINES WITH CONSTANT MIXTURE RATIO
AGRR-TB-11 N64-30468 22-27

CHEMICAL KINETICS OF COMBUSTION OF HOMOGENEOUS GAS MIXTURES IN LIQUID PROPELLANT ROCKET ENGINES
FTD-MT-64-272 N64-32241 23-26

PROPULSION DEVELOPMENT PROBLEMS OF SATURN I AND SATURN V LIQUID ROCKET VEHICLES
NASA-TM-X-53075 N64-32486 23-31

CONTROL METHODS OF HIGH FREQUENCY COMBUSTION OSCILLATIONS IN HIGH THRUST LIQUID PROPELLANT ROCKET ENGINES
AD-449764 N64-32647 23-26

LIQUID SLOSHING
FUEL MOTION IN TANKS & AIRCRAFT STABILITY
N64-23567 16-02

HYDRODYNAMIC FORCES FROM SLOSHING LIQUID PROPELLANTS IN MISSILE FUEL TANKS
ONERA-TP-136 N64-24004 16-11

MEASURING FORCES GENERATED BY SLOSHING OF LIQUIDS IN MISSILES
ONERA-TP-123 N64-25550 17-26

EXPERIMENTAL SLOSHING CHARACTERISTICS AND MECHANICAL ANALOGY OF LIQUID SLOSHING IN SCALE MODEL CENTAUR LIQUID OXYGEN TANK

NASA-TM-X-999 N64-26838 18-11

FORCED VIBRATION CHARACTERISTICS OF PARTIALLY FILLED SPHERICAL TANKS - LIQUID SLOSHING
NASA-CR-58652 N64-29402 21-33

LITHIUM
CF ALKALI METAL
ENERGY VALUES AND ISOTOPE SHIFTS OF ONE P AND THREE P LEVELS OF HELIUM AND LITHIUM
NASA-CR-52694 N64-11380 02-23

HYPERFINE STRUCTURES OF STABLE LITHIUM ISOTOPES, & RADIOACTIVE ISOTOPES OF RHENIUM
UCRL-11047 N64-11988 03-23

LITHIUM GREASES STABILIZED WITH ALUMINUM SILICONATES OR DIPHENYLESTER OF METHYLPHOSPHINIC ACID
FTD-TT-63-604/1 N64-12056 03-19

ION DENSITY MEASUREMENTS IN SHOCK TUNNEL BY LITHIUM VAPOR INTRODUCTION
R63SD82 N64-12337 03-23

ALPHA PARTICLE ENERGY SPECTRA FROM DEUTERON-ALPHA REACTIONS ON LITHIUM, BERYLLIUM, CARBON, NITROGEN, & OXYGEN USING 24-MEV DEUTERONS
UCRL-10993 N64-13217 04-23

LITHIUM-SILVER CHLORIDE CELL USING NONAQUEOUS ELECTROLYTE
RTD-TDR-63-4083 N64-13643 05-06

AUSTENITIC CHROMIUM-NICKEL STEEL REACTION WITH LIQUID LITHIUM N64-13734 05-07

CORROSION RESISTANCE OF IRON IN LITHIUM N64-13735 05-07

CORROSION TEST OF TITANIUM AND TITANIUM-ALUMINUM ALLOY IN LIQUID LITHIUM N64-13736 05-07

AXIAL HEAT-FLOW APPARATUS FOR DETERMINING THERMO-CONDUCTIVITY OF MOLTEN SAMPLE OF LITHIUM METAL
ORNL-3390 N64-14058 05-13

ACTIVATION ANALYSIS FOR BORON AND LITHIUM
AFCRL-63-575 N64-14662 06-23

COOLING SOLID PROPELLANT MOTOR NOZZLE WITH LIQUID LITHIUM
RT-TR-63-13 N64-15065 07-27

INTERACTION ENERGY LEVELS AND TRANSPORT COEFFICIENTS OF LITHIUM-HYDROGEN AND OXYGEN-HYDROGEN GAS MIXTURES AT HIGH TEMPERATURES N64-15275 07-23

THERMIONIC EMISSION ION SOURCES FOR ISOTROPIC ANALYSIS OF LITHIUM
NBL-205 N64-15564 07-07

CORROSION OF REFRACTORY METALS BY LITHIUM
ORNL-3551 N64-16535 08-18

LITHIUM-ARGON SPUTTERING
AS-63-7 N64-17802 09-23

CONDUCTION MECHANISM IN LITHIUM-SUBSTITUTED OXIDES OF MANGANESE, COBALT, NICKEL, AND COPPER N64-18117 10-25

CONTAMINATION EFFECTS ON LIQUID RUBIDIUM AND LIQUID LITHIUM SYSTEMS
ASD-TDR-63-413 N64-18930 11-18

ANALYSIS AND PURIFICATION OF RUBIDIUM & LITHIUM
APL-TDR-64-34 N64-18935 11-17

ATOMIC BEAMS OF ALKALI ATOMS IN ELECTRON VOLT ENERGY RANGE - LITHIUM ATOM BEAM
TR-19 N64-20172 13-24

CHARACTERISTICS OF LITHIUM ELECTRODE & LEWIS ACID-PROPYLENE CARBONATE ELECTROLYTES N64-22888 16-06

ARC DISCHARGE IN LITHIUM VAPOR
EUR-1627.F N64-23207 16-24

LITHIUM-SILVER CHLORIDE SECONDARY BATTERY STUDY
QPR-1 N64-25855 18-07

OBSERVATIONS OF METASTABLE STATE OF LITHIUM N64-26024 18-23

UPPER ATMOSPHERIC WIND DETERMINATION USING SODIUM AND LITHIUM VAPORS EJECTED FROM SOUNDING ROCKET
NASA-CR-58206 N64-27273 19-12

EXPANSION METHOD FOR CALCULATION OF EXPECTATION VALUES OF OPERATORS FOR LOWEST 2S AND 2PO STATES OF MEMBERS OF LITHIUM SEQUENCE
NASA-CR-57010 N64-27381 19-23

LIQUID LITHIUM FOR COOLING SOLID PROPELLANT ROCKET NOZZLES
A-P-FR-5601 N64-29752 21-13

LITHIUM AS LIQUID METAL COOLANT FOR SOLID PROPELLANT ROCKET NOZZLE
A-P-FR-5601, VOL.2 N64-30632 22-13

NUCLEAR REACTION OF LITHIUM 6 UNDER PROTON IRRADIATION TO YIELD HELIUM 3 & ALPHA PARTICLE N64-30662 22-23

APPARATUS FOR BIAXIAL CREEP MEASUREMENTS ON STAINLESS STEEL CAPSULE FILLED WITH LITHIUM
SY-5472-R N64-30767 22-15

VISIBLE ABSORPTION SPECTRA OF LITHIUM, SODIUM, AND POTASSIUM IN MOLTEN LITHIUM CHLORIDE-POTASSIUM CHLORIDE
NASA-RP-322 N64-31005 22-07

LITHIUM DEUTERIDE-COATED LITHIUM WIRE
RFP-428 N64-31328 22-17

INITIAL PERMEABILITY OF LITHIUM AND NICKEL FERRITES
AD-422698 N64-33899 24-25

FABRICATION OF LONG LIFE, HIGH ENERGY DENSITY SECONDARY BATTERY BASED ON LITHIUM-SILVER CHLORIDE SYSTEM - AEROSPACE APPLICATIONS
QTPR-2 N64-33979 24-06

LITHIUM ALLOY
SPOT WELDING OF PATCHES OF SILVER-LITHIUM & COPPER BRAZING ALLOYS FOR STATIC & SHEAR FATIGUE STRENGTH
FGT-2999 N64-12648 04-18

MAGNESIUM-LITHIUM ALLOYS
NASA-CR-79 N64-23511 16-18

MAGNESIUM-LITHIUM ALLOYS FOR MISSILE AND SPACE STRUCTURAL APPLICATIONS N64-23512 16-18

CORROSION RESISTANCE AND PROTECTION OF MAGNESIUM-LITHIUM ALLOYS N64-23513 16-18

LITHIUM COMPOUND
PROCESSING OF LITHIUM-BEARING MINERALS AND LITHIUM COMPOUNDS N64-13471 05-12

INFRARED SPECTRUM OF LITHIUM FLUORIDE, ALUMINUM FLUORIDE, AND LITHIUM METABORATE BY MATRIX ISOLATION METHOD
IITRI-C6013-2 N64-13634 05-23

CRYSTALLINE PHASE TRANSFORMATION IN LITHIUM-ALUMINATE
RTD-TDR-63-4151 N64-17230 09-25

THERMOCHEMICALLY SELF-PROPAGATING OXYGEN-GENERATING COMPOSITION USING LITHIUM PERCHLORATE, MANGANESE POWDER, & LITHIUM PEROXIDE
AMRL-TDR-64-1 N64-18600 11-16

INFRARED SPECTRUM ANALYSIS OF LITHIUM FLUORIDE, ALUMINUM FLUORIDE, AND LITHIUM BORATE BY MATRIX ISOLATION N64-18805 11-07

SUBLIMATION AND VAPORIZATION BEHAVIOR OF MIXED ALUMINUM-BORON-LITHIUM COMPOUNDS N64-18819 11-13

VAPOR PRESSURE OVER OXIDE SYSTEMS OF ALUMINUM, BORON, BERYLLIUM, AND LITHIUM MEASURED AS FUNCTION OF COMPOSITION
N64-18820 11-13

EFFECT OF DYNAMIC & STATIC PRESSURE ON DENSITY OF POWDER MIXTURE OF IRON, LITHIUM, NICKEL, & ZINC OXIDES
ERR-FW-212 N64-18947 11-17

COMPATIBILITY OF MATERIALS FOR LITHIUM-NICKEL HALIDE SECONDARY BATTERY
AD-433616 N64-21668 15-06

LITHIUM-CUPRIC FLUORIDE AND LITHIUM-COBALTIC FLUORIDE ELECTROCHEMICAL CELLS FOR BATTERIES
APL-TDR-64-59 N64-23970 16-09

LITHIUM ALUMINOSILICATE AS ION EMITTING SOURCE FOR THERMIONIC CONVERTER
USAELRDL-TR-2479 N64-26176 18-23

LITHIUM-NICKEL HALIDE SECONDARY BATTERY - HALF CELLS, ELECTROLYTE CONDUCTIVITIES, POSITIVE AND NEGATIVE ELECTRODE PREPARATIONS
AD-601148 N64-27769 19-06

ADSORPTION OF OXYGEN ON NICKEL OXIDE-LITHIUM OXIDE CATALYSTS
N64-33997 24-07

LITHIUM COOLED REACTOR EXPERIMENT /LCRE/
LITHIUM COOLED REACTOR EXPERIMENT PRIMARY COOLANT PUMPS AND SUMP
PWAC-383 N64-10825 02-17

REFRACTORY METAL THERMOCOUPLE FOR LITHIUM COOLED REACTOR
PWAC-422 N64-16000 07-15

LITHIUM COOLED REACTOR EXPERIMENT DESIGNED AS TEST FOR HIGH TEMPERATURE, INTERMEDIATE-FAST-FLUX REACTOR
PWAC-416 N64-17719 09-06

LIQUID METAL VALVES FOR LITHIUM COOLED REACTOR EXPERIMENT /LCRE/
PWAC-401, PT. II N64-19904 12-23

LITHIUM FLUORIDE
PRELIMINARY DESIGN ANALYSIS OF BRAYTON CYCLE CAVITY RECEIVER USING LITHIUM FLUORIDE
NASA-CR-52390 N64-10140 01-17

STRENGTH DEPENDENCE OF LITHIUM FLUORIDE FRACTURE WHISKERS ON SIZE
JPRS-17725 N64-10714 02-19

INFRARED SPECTRUM OF LITHIUM FLUORIDE, ALUMINUM FLUORIDE, AND LITHIUM METABORATE BY MATRIX ISOLATION METHOD
IITRI-C6013-2 N64-13634 05-23

SPONTANEOUS SHIFTING OF DISLOCATIONS IN SINGLE CRYSTALS OF LITHIUM FLUORIDE N64-15017 07-25

INVESTIGATION OF MAGNESIA-MAGNESIUM FLUORIDE-GERMANIA-LITHIUM FLUORIDE FOR SYNTHETIC MINERAL USAGES
BM-RI-6398 -N64-17228 09-25

PRODUCTION OF SINGLE CRYSTAL LITHIUM FLUORIDE WITH SELECTED LITHIUM ISOTOPE RATIOS
ORNL-3341 N64-17254 09-25

INFRARED SPECTRUM ANALYSIS OF LITHIUM FLUORIDE, ALUMINUM FLUORIDE, AND LITHIUM BORATE BY MATRIX ISOLATION N64-18805 11-07

MASS SPECTROMETRIC DETERMINATION OF HEAT OF SUBLIMATION OF LITHIUM FLUORIDES
N64-18814 11-13

DOUBLE-OVEN EXPERIMENT ON FRAGMENTATION PATTERN OF LITHIUM FLUORIDE N64-18815 11-07

BRAYTON CYCLE CAVITY RECEIVER USING LITHIUM FLUORIDE AS CORROSIVE SALT
NASA-CR-53874 N64-19792 12-06

PHOTOMULTIPLIER IMPROVEMENT - LITHIUM FLUORIDE THERMOLUMINESCENT DOSIMETER FOR DETECTION OF AURORAL ELECTRONS
AFCRL-64-166 N64-20148 13-15

X-RAY FLUORESCENCE TABLES - LITHIUM FLUORIDE CRYSTAL
Y-1470-C N64-21039 14-25

LITHIUM-COPPER FLUORIDE & LITHIUM-COBALT FLUORIDE COUPLES FOR HIGH ENERGY BATTERY SYSTEMS FOR SPACE APPLICATIONS
AD-433543 N64-21486 14-06

DOSIMETRIC STUDY OF THERMAL LUMINESCENCE OF LITHIUM FLUORIDE DOPED WITH EUROPIUM AND MAGNESIUM
UCRL-7811 N64-25362 17-23

INHIBITED DISSOLUTION OF SURFACES OF SINGLE CRYSTALS OF LITHIUM FLUORIDE
TR-2 N64-26021 18-07

CRACK FORMATION AND FAILURE PROCESSES IN LITHIUM FLUORIDE SINGLE CRYSTALS
MET-E-1160-0464-QP1 N64-26427 18-33

REFRACTIVE INDEX, VACUUM COATING, AND CRYSTAL GROWTH OF LEAD CHLORIDE, ZINC TELLURIDE, AND LITHIUM FLUORIDE FILMS
AD-600264 N64-26622 18-25

SOLAR BRAYTON CYCLE CAVITY RECEIVERS WITH LITHIUM FLUORIDE HEAT STORAGE
AIAA PAPER-64-727 N64-28375 20-06

ABSORPTION OF ULTRASONIC WAVES IN LITHIUM FLUORIDE CRYSTALS
NASA-CR-58584 N64-29008 20-25

CRACK INITIATION IN CRYSTALLINE MATERIALS OBSERVED THROUGH PURE TUNGSTEN, TITANIUM ALLOY, AND LITHIUM FLUORIDE SINGLE CRYSTALS
SURI-MET-1160-0764-IT N64-30963 22-33

LITHIUM FLUORIDE, ZINC TELLURIDE, & LEAD CHLORIDE INFRARED COATINGS
QR-2 N64-31189 22-25

POLARIZATION TESTS OF LITHIUM-NICKEL FLUORIDE CATHODE
QTPR-3 N64-31929 23-06

LITHIUM HYDRIDE
POTENTIAL ENERGY CURVE OF LOWEST LYING TRIPLET SIGMA STATE OF LITHIUM HYDRIDE COMPUTED BY VARIATIONAL TECHNIQUE
NASA-CR-53060 N64-15785 07-25

PERFORMANCE OF HYDROGEN AND NONCRYOGENIC GASES OF AMMONIA, LITHIUM-HYDRIDE, METHANE, ETHANE, & WATER AS ELECTROTHERMAL THRUSTOR PROPELLANTS
NASA-TN-D-2253 N64-16120 08-27

NEUTRON ATTENUATION IN NATURAL LITHIUM HYDRIDE SHIELDS
NAA-SR-9364 N64-16127 08-23

LITHIUM HYDRIDE AND BIMETALLIC REGENERATIVE CELLS
N64-19836 12-06

PROBLEMS OF MOLTEN LITHIUM HYDRIDE CONTAINER CORROSION AND LOSS OF HYDROGEN BY HYDROGEN PERMEABILITY OF CONTAINER MATERIALS
NASA-CR-54053 N64-22462 15-07

POLAROGRAPHIC STUDY OF BOROHYDRIDES OF LITHIUM, SODIUM, POTASSIUM, AND CESIUM N64-23664 16-07

PERFORMANCE TESTING OF TURBOALTERNATOR UNIT, SOLAR COLLECTOR, AND LITHIUM HYDRIDE CONTAINMENT CAPSULE FOR SUNFLOWER POWER CONVERSION SYSTEM
NASA-CR-58234 N64-27389 19-06

SOLAR COLLECTOR, TURBO-ALTERNATOR, TEST RIG DESIGN, AND LITHIUM HYDRIDE CONTAINMENT STUDIES FOR SUNFLOWER POWER CONVERSION SYSTEM
NASA-CR-56206 N64-27828 19-06

LITHIUM PERCHLORATE
FUSIBILITY OF ANHYDROUS PERCHLORIC ACID SALTS -

LITHIUM-CALCIUM & SODIUM-CALCIUM
FTD-TT-63-565/1&2&4 N64-11165 02-19

THERMOCHEMICALLY SELF-PROPAGATING OXYGEN-GENERATING COMPOSITION USING LITHIUM PERCHLORATE, MANGANESE POWDER, & LITHIUM PEROXIDE
ANRL-TDR-64-1 N64-18600 11-16

LITTLE JOE II LAUNCH VEHICLE
LITTLE JOE II MISSION EVALUATION
DC-12-008 N64-10079 01-04

METEOROLOGICAL DATA FOR LAUNCH OF LITTLE JOE II
ERDA-84 N64-14619 06-21

LITTLE JOHN MISSILE
THERMISTOR TYPE HAZARD DETECTOR OF ELECTROMAGNETIC RADIATION FOR LITTLE JOHN MISSILE SYSTEM
RK-TR-64-9 N64-20457 13-04

PRODUCTION ENGINEERING OF METAL PARTS FOR LITTLEJOHN ROCKET MOTOR WITH FIN AND FIN BARREL ASSEMBLY
TR-3168 N64-28822 20-17

LIUMOGEN
EMISSION, ABSORPTION, AND EXCITATION SPECTRA OF LIUMOGEN PHOSPHOR FOR WAVELENGTH CONVERSION
N64-16682 08-23

LIVER
CF ANATOMY
FREE RADICALS IN RAT LIVER LIPIDS & ELECTRON PARAMAGNETIC RESONANCE SIGNALS FROM LIGHT IN CRYSTALLINE CHLOROPHYLL & ITS INFRARED SPECTRA
JPRS-18213 N64-10572 01-07

IONIZING RADIATION EFFECT ON LIVER PROTEIN & BIOELECTRIC CURRENT IN MUSCLES
JPRS-18760 N64-11346 02-16

EFFECT OF PROTECTIVE SUBSTANCES ON REACTIVITY CHANGES OF THIOL GROUPS IN LIVER OF X-RAY IRRADIATED MICE
JPRS-22125 N64-11359 02-16

BIOSYNTHESIS OF UREA IN LIVER AND BLOOD PROTEIN FRACTION AFTER PLUTONIUM-239 INJURY
N64-12571 04-16

REGENERATION OF RAT LIVER AFTER LOCAL X-RAY IRRADIATION N64-12796 04-16

SMALL & LARGE SIZE RADIOALBUMIN AGGREGATES FOR PHOTOSCANNING LIVER, SPLEEN, LUNGS, & OTHER ORGANS
UCLA-519 N64-13004 04-16

INOCULATION OF DOG LIVER WITH VIRUS FOR SUSCEPTIBILITY TEST
LF-10 N64-13344 04-16

ACETYLATION OF SULFANILAMIDE IN FEMALE MOUSE LIVER DURING CHRONIC IRRADIATION N64-13508 05-16

TRYPTOPHAN PYRROLASE ACTIVITY EFFECT IN BACTERIAL ENDOTOXIN POISONING IN MICE
AAL-TDR-63-13 N64-13662 05-16

NONPROTEIN AMINO ACIDS & RELATED COMPOUNDS OF RAT LIVER MITOCHONDRIA - CHROMATOGRAPHIC ANALYSIS
NADC-MA-6318 N64-14351 06-16

BLOOD PRESSURE MEASUREMENTS OF OXYGEN UPTAKE AND RESPIRATORY RATE OF RAT LIVER - HYPOXIA
N64-14602 06-16

GLUCOSE UTILIZATION OF BRAIN CORRELATED WITH INSUFFICIENT OXYGEN CONSUMPTION IN LIVER - HYPOXIA
N64-14604 06-16

LYSOMES, MITOCHONDRIA, AND GOLGI APPARATUS ALTERATION PATTERN STUDIES DURING AUTOLYSIS AND ANOXIC NECROBIOSIS CONDUCTED ON RAT LIVER LESION
N64-14605 06-16

TIME AND DOSE DEPENDENCY OF NITROGEN COMPOUND EXCRETION FROM ISOLATED FROG LIVER AFTER WHOLE-BODY IRRADIATION
NIJS-R-422 N64-21048 14-14

EFFECT OF HISTAMINE AND CYSTEINE ON NITROGEN EXCRETION FROM LIVER OF IRRADIATED FROG
NIJS-R-423 N64-21049 14-14

NITROGEN COMPOUNDS EXCRETED BY ISOLATED LIVER OF NONIRRADIATED AND IRRADIATED FROGS
NIJS-R-421 N64-21056 14-16

X-RAY IRRADIATION EFFECT ON DEVELOPMENT OF ENZYME ACTIVITY IN LIVER OF YOUNG RATS
SAM-TDR-64-29 N64-25340 17-16

EFFECTS OF CORTISONE ON METABOLISM OF RIBONUCLEIC ACID AND ITS NUCLEOTIDES IN RAT LIVER
NASA-TT-F-224 N64-27036 19-16

LIVERMORE POOL TYPE REACTOR /LPTR/
LIVERMORE POOL TYPE REACTOR SINGLE-CRYSTAL NEUTRON SPECTROMETER AND MEASUREMENTS
UCRL-7611 N64-16673 08-23

LIZARD
MECHANISM OF NERVOUS RESPONSES IN LIZARDS
N64-31465 23-16

LOAD DISTRIBUTION
DISTRIBUTION OF AERODYNAMIC LOADS ON WINGS OF CONSTANT CROSS SECTION - END RESTRAINTS
FTD-TT-63-751/1&2&3&4 N64-12623 04-03

SPANWISE LOADING OF HELICOPTER ROTOR BLADES IN FORWARD FLIGHT
ARC-R&M-3318 N64-13383 04-03

FORMULA FOR DETERMINING EFFECT OF MODIFYING STIFFNESS OF MEMBERS IN STRUCTURES ON EXISTING LOAD DISTRIBUTION - MATRIX ANALYSIS
ARL/SM-280 N64-14053 05-33

MIDSHIP BENDING MOMENTS IN REGULAR WAVES BY MODELS OF SHIP HULLS WITH VARIABLE LOAD DISTRIBUTIONS
SSC-155 N64-18875 11-11

IMMERSED PROFILES IN TWO-DIMENSIONAL VISCOUS FLOW NEAR FREE SURFACE WITH SUPERIMPOSED LOAD DISTRIBUTION
AD-296991 N64-30070 21-11

LOAD FACTOR
REDUCTION OF AIRBLAST LOAD ON ABOVEGROUND AIRCRAFT STRUCTURES N64-12416 04-33

REQUIREMENTS FOR RELIABILITY FATIGUE TESTING WITH STATIC, DYNAMIC, AND ACOUSTIC LOAD FACTORS
RTD-TDR-63-4021 N64-28914 20-33

LOAD TEST
DYNAMIC WIND-TUNNEL MODEL FOR STABILITY, CONTROL, AND RESPONSE CHARACTERISTICS & FLIGHT LOAD TESTING OF AIRCRAFT
TECH. LETTER 1310 N64-14830 08-10

COMPUTER PROGRAM FOR ANALYZING GENERAL INSTABILITY OF ORTHOTROPIC CIRCULAR CYLINDER SUBJECTED TO AXIAL LOAD, END MOMENT, & UNIFORM RADIAL PRESSURE
NASA-CR-55703 N64-15537 07-33

FLEXIBLE POLYMER FILM AND ADHESIVE RESIN BONDING OF ALUMINUM TO ALUMINUM - LOAD AND VIBRATION TEST
NASA-CR-55721 N64-16272 08-34

EXTERNAL-LOAD TEST OF WELDED JOINTS BETWEEN CYLINDRICAL PRESSURE VESSELS N64-16857 08-33

STRUCTURAL FLIGHT LOAD TEST DATA FOR C-130 AIRCRAFT
ASD-TDR-64-78 N64-26321 18-04

NONSTEADY HYDROGEN-OXYGEN FUEL CELL OPERATIONS UNDER PULSED LOAD CONDITIONS
NASA-CR-54163 N64-30047 21-06

TRANSONIC BUFFET WIND TUNNEL INVESTIGATION ON SCALE MODEL OF FORWARD PORTION OF GEMINI LAUNCH VEHICLE
LV-279-II N64-31835 23-33

LOADING
PHYSIOLOGICAL RESPONSES OF MAN UNDER CONDITIONS OF

ALTERNATING OVERLOAD AND WEIGHTLESSNESS
N64-10703 02-14

STRESSES IN SEGMENT OF ISOTROPIC TRUNCATED CONICAL SHELL WITH LINEARLY VARYING THICKNESS SUBJECTED TO LATERAL NORMAL LOAD
NASA-CR-52882 N64-11336 02-33

STABILITY OF THIN CYLINDRICAL ELASTIC SHELLS UNDER STATIC AND IMPULSIVE LOADS
STL-TRANS-73 N64-11994 03-33

LOAD ANALYSIS OF BLADE SUPPORT STRAPS FOR X258 ROCKET CASE
SSE-5-164 N64-12034 03-30

STRENGTH OF METAL - RATE OF STRAIN DEPENDENCE - EFFECT OF LOADING ON COEFFICIENT VISCOUS DAMPING AND YIELD STRENGTH
ARL-63-1527 N64-12305 03-18

DATA REDUCTION METHOD FOR CORRECTING FINITE LOADING TIMES IN VISCOELASTIC STRESS & CREEP TESTS
P-63-6 N64-12994 04-33

FAILING LOAD AND FAILURE MODE FOR ALUMINUM SHEET
A237 N64-13247 04-18

WAVE PROPAGATION IN UNIAXIAL STRAIN - BEHAVIOR OF MATERIALS UNDER HIGH IMPULSE LOADING
N64-13437 05-25

EFFECT OF REPEATED LOADING ON FILAMENT WOUND INTERNAL PRESSURE VESSELS
TECH. MEMO-229 N64-13893 05-33

STRESS ANALYSIS FOR SHELLS OF REVOLUTION WITH NONSYMMETRIC LOADS
LMSC-6-90-61-58 N64-14609 06-33

FATIGUE, LOADING, AND PROBABLE DENSITIES OF FLEXIBLE BARS
DVL-249 N64-15025 07-33

COMPUTER PROGRAM FOR ANALYZING GENERAL INSTABILITY OF ORTHOTROPIC CIRCULAR CYLINDER SUBJECTED TO AXIAL LOAD, END MOMENT, & UNIFORM RADIAL PRESSURE
NASA-CR-55703 N64-15537 07-33

SUSTAINED LOAD TESTING AND HYDROGEN EMBRITTLEMENT OF CADMIUM PLATED NOTCH TENSILE STEEL
ERR-FW-161 N64-15588 07-18

IBM 7090 COMPUTER PROGRAM FOR STRESSES AND DEFORMATIONS OF CROSS SECTIONS OF BEAMS DUE TO MECHANICAL OR THERMAL LOADING
ASRMDS-TM-62-35 N64-17366 09-20

PRESSURE DISTRIBUTION AND LOAD STUDIES OF COOLED-ROTOR THRUST BEARING
MTI-63TR28 N64-18044 10-17

ELASTIC STABILITY OF CYLINDRICAL SHELLS UNDER COMPRESSIVE LOADING USING DONNELL EQUATION
NASA-CR-53361 N64-18298 10-33

CREEP ANALYSIS OF CIRCULAR CROSS-SECTION TORSIONAL STRESS MEMBERS SUBJECTED TO NONPROPORTIONATE LOAD CHANGES
TR-6 N64-19979 12-33

BIBLIOGRAPHY ON DYNAMIC LOADING
SB-63-53 N64-20532 13-33

CREEP RECOVERY DURING STRESS LOADING CYCLE
N64-22082 15-33

LINEAR STRAIN THEORY AND SMITH METHOD FOR PREDICTING FATIGUE LIFE OF STRUCTURES FOR SPECTRUM TYPE LOADING
ARL-64-55 N64-22279 15-33

SYMMETRICALLY LOADED ANISOTROPIC SHELLS OF REVOLUTION N64-22805 16-23

SOLUTION TO WEAK CYLINDRICAL BENDING PROBLEMS FOR SANDWICH PLATES OF NONSYMMETRICAL THICKNESS
N64-23070 16-33

STRUCTURAL BEHAVIOR OF INFLATED FABRIC CYLINDERS UNDER VARIOUS LOADING CONDITIONS
N64-23732 16-33

MINIMIZATION OF RADAR CROSS SECTION OF CYLINDER BY CENTRAL LOADING
AFCRL-64-356 N64-24137 16-33

LOADING RATIO OF SHOCK RESPONSE OF NONLINEAR SYSTEM
EM-10-23 N64-24151 16-33

LOBAR MODE OSCILLATIONS OF CYLINDRICAL SHELLS UNDER POINT LOADING
TR-9 N64-24179 16-33

OPTIMUM SETTING OF RATE SWITCH - STRUCTURAL LOADING AND INADVERTENT SWITCHOVER CONSIDERATIONS
LV-351 N64-25955 18-33

STRUCTURAL DESIGN CRITERIA, SYSTEM BASIC LOADS, AND STRESS AND VIBRATION ANALYSIS OF SYSTEM FOR NUCLEAR AUXILIARY POWER-2 /SNAP-2/ UNIT
NAA-SR-9054 N64-26519 18-34

MATRIX REPRESENTATION OF MULTIPLE LOADED CIRCULAR LOOP ANTENNAS
TR-429 N64-26535 18-08

BENDING OF CIRCULAR PLATES UNDER VARIABLE SYMMETRICAL LOADS
ANL-6882 N64-28254 20-33

FAILURE LOAD TESTING OF PRESTRESSED CONCRETE SLABS SUPPORTED ON LOW-STRENGTH SUBSTRATE
TR-4-28 N64-28627 20-19

AEROELASTIC MODELING TECHNIQUES FOR DETERMINATION OF STRUCTURAL LOADING & STABILITY AND CONTROL CHARACTERISTICS N64-29255 21-33

LOADING RATE EFFECT ON DEFORMATION OF ROCK UNDER TRIAXIAL COMPRESSION
AROD-3055-1 N64-29924 21-12

DISTRIBUTION OF EXPERIMENTAL BUCKLING LOAD VALUE FOR CYLINDRICAL SHELLS
TRECOM-TR-64-31 N64-29933 21-33

DYNAMIC RESPONSE OF LAUNCHER UNDERSTRUCTURE DURING SIMULATED ROCKET LOADING
REPT.-10 N64-30052 21-10

STRESS AND LOAD PRODUCED IN EARTH CRUST AND MANTLE BY DENSITY DISTRIBUTION IRREGULARITIES AND TECTONIC MOVEMENTS OF EARTH
NASA-CR-56228 N64-30520 22-12

SYMMETRIC LOADING TO DETERMINE STRESS AND DEFORMATION OF THIN ORTHOTROPIC SHELLS OF REVOLUTION
LMSC-6-74-64-5 N64-30682 22-20

PHASE SHIFT BY PERIODIC LOADING OF WAVEGUIDE
ESD-TDR-64-344 N64-30697 22-09

LARGE DYNAMIC PLASTIC DEFORMATIONS OF SIMPLE STRUCTURES SUBJECTED TO IMPULSE LOADING
ASRL-110-2 N64-30927 22-33

REDUCING MAGNITUDE OF BACKSCATTERING FROM OBJECTS BY LOADING
AFCRL-64-541 N64-31989 23-08

DEFLECTION, SLOPE, AND MOMENT EQUATIONS FOR CIRCULAR PLATES UNDER UNIFORM LOAD ON CONCENTRIC CIRCLE
ANL-6905 N64-33008 24-33

TWO-DIMENSIONAL STEADY-STATE SOLUTIONS FOR MOVING NORMAL CONTACT LOADS ON SURFACE OF VISCOELASTIC BASE
TR-148 N64-33298 24-33

RANDOMIZED AND PROGRAMMED LOAD SEQUENCES WITH TRANSITION PROBABILITIES BASED ON MARKOV CHAIN
TR-4 N64-33321 24-33

EFFECTS OF LOADING AND ADHESION ON MECHANICAL

BEHAVIOR OF FILLED RUBBER INSULATION IN ROCKET CHAMBERS
NRL-MEMO-1563 N64-33522 24-19

DESIGN CRITERIA FOR STRUCTURAL SANDWICH CONSTRUCTIONS UNDER VARIOUS LOADS
FPL-2161 N64-33858 24-34

ULTIMATE STRENGTH OF SINGLE-STORY, PINNED-BASE RIGID FRAMES SUBJECTED TO VERTICAL AND HORIZONTAL LOADS
REPT.-273.18 N64-33889 24-26

LOADING APPARATUS
AUTOMATIC DEVICE FOR SEPARATION OF PERFORATED FAN FOLDS OF FLIGHT PROGRESS STRIP LOADER
RP-64-22 N64-20513 13-06

ELECTRIC VACUUM FURNACE WITH DEVICE FOR LOADING SPECIMENS WITHOUT DISTURBING VACUUM
N64-23843 16-33

LOCALIZATION
MINIMUM PERFORMANCE STANDARDS FOR AIRBORNE INSTRUMENT LANDING SYSTEM LOCALIZER RECEIVING EQUIPMENT
RTCA-20-63/DO-115 N64-10420 01-08

ANALOG COMPUTER SIMULATION OF EFFECT ON AUTOMATIC LANDING SYSTEM PERFORMANCE OF OVERFLIGHT INTERFERENCE WITH LOCALIZER N64-19166 11-10

ROLE OF PINNA IN HUMAN LOCALIZATION
AD-600151 N64-30491 22-14

LOCKHEED MILITARY AIRCRAFT
S C-130 AIRCRAFT
S T-33 AIRCRAFT

LOCOMOTION
GRAVITY SIMULATION TECHNIQUE FOR STUDIES OF SELF-LOCOMOTION IN LUNAR ENVIRONMENT
NASA-TN-D-2176 N64-16916 09-14

LOCOMOTION IN SIMULATED LUNAR SOIL OF CIRCULAR AND NONCIRCULAR WHEELS
ADR-04-05-63.2 N64-26312 18-17

LOCOMOTIVE
TWO-STAGE LOW REACTION TRACTION TURBINE SUITABLE FOR GAS TURBINE LOCOMOTIVE
MT-50 N64-14084 05-06

OPTIMAL CONTROL OF ELECTRIC LOCOMOTIVE
N64-23801 16-09

LOFTI
S LOW FREQUENCY TRANSIONOSPHERIC /LOFTI/ SATELLITE

LOG PERIODIC ANTENNA
CONTINUOUSLY SCALED AND LOG-PERIODIC STRUCTURES - ANTENNAS
TR-73 N64-13039 04-09

LOG-PERIODIC AND LOG-SPIRAL ANTENNA STUDIES
AD-424471 N64-13261 04-08

CONSTANT WIDTH LOG PERIODIC DIPOLE ANTENNA ARRAY WITH INDUCTIVELY-LOADED ELEMENTS
EDL-M401 N64-16968 09-09

LOG PERIODIC DIPOLE ANTENNA WITH PARASITIC ELEMENTS
EDL-M623 N64-17965 10-09

ANTENNA PRINCIPLES OF LOG-PERIODIC SLOT ARRAYS
AD-434190 N64-18197 10-09

RADIATION EMISSION FROM LOG PERIODIC AND UNIFORM PERIODIC ANTENNAS
QPR-5 N64-21812 15-09

PROPERTIES OF LOG PERIODIC ANTENNAS
AD-601586 N64-22714 15-08

LOG-PERIODIC ANTENNAS
QR-1 N64-25675 17-09

LOG-PERIODIC CAVITY BACKED SLOT ANTENNA
TR-78 N64-26941 18-08

ELECTRICAL AND MECHANICAL CHARACTERISTICS OF LOG PERIODIC ANTENNAS
USAELRDL-TR-2343 N64-27611 19-08

LOG PERIODIC AND CONTINUOUSLY SCALED ANTENNAS
TR-76 N64-27852 19-08

LOG PERIODIC MONOPOLE ANTENNA - COMPUTER ANALYSIS AND RADIATION PATTERN
NASA-CR-58628 N64-29701 21-08

CAVITY-MOUNTED LOG-PERIODIC MONOPOLE ANTENNA ANALYZED BY COMPUTER N64-29702 21-08

RADIATION PATTERNS OF LOG PERIODIC MONOPOLE ANTENNAS N64-29703 21-08

LIGHTWEIGHT PORTABLE LOG PERIODIC ANTENNA SYSTEM
RADC-TDR-64-178 N64-29824 21-08

COMPARISON OF LOG PERIODIC ANTENNA WITH RHOMBIC ANTENNA FOR HIGH FREQUENCY BAND
EDL-M548 N64-29927 21-08

DESIGNS AND APPLICATIONS OF BROADBAND AND LOGARITHMIC PERIODIC DIPOLE ANTENNAS
FTD-TT-64-554/1626364 N64-30108 21-08

RADIATION CHARACTERISTICS OF LOG PERIODIC DIPOLE ARRAY
EDL-M720 N64-32552 23-08

LOG SPIRAL ANTENNA
LOG-PERIODIC AND LOG-SPIRAL ANTENNA STUDIES
AD-424471 N64-13261 04-08

LOG SPIRAL ANTENNAS AND FERRITE LOADING OF SLOTTED ANTENNAS FOR ULTRAHIGH FREQUENCY AND VERY HIGH FREQUENCY RANGE
REPT.-5549-9-P N64-21415 14-09

LOGARITHM
LOGARITHMIC AMPLITUDE CHARACTERISTICS FOR CALCULATING ENTROPY OF RANDOM PROCESSES RELATED TO AUTOMATIC CONTROL SYSTEMS
JPRS-19242 N64-10583 01-09

REGULAR AND LOGARITHMIC COULOMB WAVE FUNCTIONS, AND ARGUMENT OF GAMMA FUNCTION
REPT.-1565-4 N64-26533 18-23

QUANTUM THEORY - SINGULAR LOGARITHMIC POTENTIALS AND PERATIZATION
UR-875-42 N64-27764 19-23

MODELING OF LOGARITHMIC AND EXPONENTIAL FUNCTIONS WITH NONLINEAR SEMICONDUCTOR RESISTORS
N64-29138 21-15

GRADUATED LOGARITHMIC FIELDS AND STABILITY - APPLICATION TO ALGORITHMS FOR ASYMPTOTIC STUDIES OF DIFFERENTIAL EQUATIONS
MRC-489 N64-31961 23-20

LOGARITHMIC RECEIVER
EQUIPMENT FOR RECORDING ELECTROMAGNETIC BROADBAND WAVES USING LOGARITHMIC CHARACTERISTICS
N64-11876 03-15

LOGIC
SA BOOLEAN ALGEBRA
PRINCIPLES OF ACCOMPLISHING LEARNING AND LOGICAL PROCESSES IN ELECTRONIC APPARATUS - CYBERNETICS
JPRS-19134 N64-10458 01-20

ALGORITHM OF MINIMIZATION OF INCOMPLETELY SPECIFIED LOGICAL FUNCTIONS - COMPUTER PROGRAM
N64-11615 03-20

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AFCRL-63-515 N64-13622 05-20

MAPPING ONE SET BINARY SEQUENCES INTO ANOTHER SET BY MULTILEVEL LOGIC
MH-TRANS-410 N64-14807 06-20

LOGIC DESIGN OF SYMBOLIC LANGUAGE FOR DIGITAL COMPUTER - ADAM
AFCRL-63-510 N64-16431 08-20

CYBERNETICS - AUTOMATION, LOGICAL MACHINES, CONTROL, IMPROBABILITY, FEEDBACK, ALGEBRA, AND COMPUTERS
JPRS-23554 N64-17242 09-16

STRONG AND WEAK REDUCIBILITY OF ALGORITHMIC PROBLEMS OF ALGEBRAIC, NUMBER THEORY, TOPOLOGY, AND MATHEMATICAL LOGIC SOLVABILITY.
JPRS-23760 N64-17246 09-20

INFORMATION THEORY - LOGIC OF MECHANISM AND THEORY OF SIMPLIFICATION - BIONICS
N64-18828 11-16

ANALOG MODEL FOR CONSTRUCTABILITY OF INDUCTIVE LOGIC - COMPUTER SIMULATION N64-18839 11-16

LOGIC SYSTEMS - THEORY OF STRUCTURES AND FUNCTION IN SCIENCE OF BEHAVIOR
ESD-TDR-64-193 N64-21533 15-16

LOGIC SYSTEMS FOR SEMI-AUTOMATIC MATHEMATICAL PROCESSES
AFCRL-64-411 N64-26957 18-20

CONVERSION OF LOGICAL SCHEMES OF ALGORITHMS TO BOOLEAN FUNCTIONS FOR CONTROL CIRCUIT STRUCTURE
NASA-TT-F-9006 N64-27327 19-20

SPEED INDEPENDENCE OF ELEMENTS IN LOGIC SWITCHING CIRCUITS
R-205 N64-27573 19-09

CONTROL SYSTEM DESCRIBED BY ALGEBRAIC LOGIC - COMPLEXITY OF BLIND AND MINIMAL DISJUNCTIVE NORMAL FORMS N64-29734 21-20

MATHEMATICAL LOGIC AND NUMERICAL ANALYSIS
FTD-TT-64-500/1 N64-30176 21-20

LOGIC DIAGRAMS IN PLANNING AND ORGANIZATION OF TRAINING PROCESS N64-30219 22-14

COLLECTION OF ARTICLES ON MATHEMATICAL LOGIC, CYBERNETICS, AND COMPUTER TECHNOLOGY
JPRS-26740 N64-31037 22-20

LOGIC CIRCUIT
SA NEURAL NET
OPERATIONAL MEMORY DEVICE FOR DIGITAL LOGICAL COMPUTER N64-11035 02-20

IMPROVED RELIABILITY OF DIGITAL SYSTEMS THROUGH LOGICAL REDUNDANCY TECHNIQUES
NASA-CR-52866 N64-11331 02-20

MAGNETIC LOGIC COMPUTER FEASIBILITY - FERRITE ELEMENTS, FEW DRIVERS, SEQUENTIAL SWITCH TIMER, & HIGH SIGNAL TO NOISE RATIO
CA-4221-0089-1 N64-13626 05-09

PULSE HEIGHT ANALYZER AND LOGIC CIRCUITS FOR INTERPLANETARY MONITORING PLATFORM NUCLEAR ABUNDANCE EXPERIMENT - EXPLORER XVIII
NASA-TM-X-51623 N64-19590 12-15

MAGNETIC CORE TRANSISTOR LOGIC ELEMENTS - RELIABILITY AND AEROSPACE USES N64-21384 14-09

MAGNETIC LOGICAL TRANSDUCERS
AL-TDR-64-22 N64-21666 15-09

SYNTHESIS OF LARGE-SCALE LOGIC FUNCTIONS ON ARRAY OF INTEGRATED MICROCIRCUITS
AFCRL-63-528 N64-22692 15-09

MAGNETIC LOGICAL ELEMENTS
FTD-TT-62-1502/1&2 N64-23285 16-23

ISOLATOR AND AMPLITUDE STABILIZER LOGIC CIRCUIT
FTD-TT-62-1500/1&2 N64-23405 16-20

PNEUMATIC LOGIC CIRCUITS USING JET AMPLIFIERS
N64-23818 16-11

PURE FLUID LOGIC APPLIED TO ON-OFF CONTROL SYSTEMS
N64-23819 16-11

TURBULENCE AMPLIFIER IN FLUID LOGIC CIRCUIT
N64-23821 16-11

SPEED CONTROL BY PURE FLUID FLOW LOGIC CIRCUITS
N64-23827 16-11

MICROMINIATURE PROGRAMMABLE LOGIC ELEMENTS
AFCRL-64-321 N64-24206 16-09

CONFIRMATION OF LOGIC CIRCUITS OF AEROSPACE GROUND EQUIPMENT /AGE/ N64-25963 18-06

MICROPOWER OPERATIONS FOR DIGITAL LOGIC CIRCUITS
N64-26441 18-09

METAL OXIDE SEMICONDUCTOR FIELD EFFECT DEVICES FOR MICROPOWER LOGIC CIRCUITRY N64-26442 18-09

MULTIPLE EMITTER TRANSISTOR IN LOW POWER LOGIC CIRCUITS N64-26445 18-09

THIN FERROMAGNETIC FILM FOR LOGIC CIRCUITS - FLUX TRANSFER - MEASUREMENT OF FILM THICKNESS AND PROPERTIES
NASA-CR-58559 N64-29358 21-09

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NASA-CR-58360 N64-29569 21-09

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LOG COMPRESSION AMPLIFIER CIRCUIT ANALYSIS BY DIFFERENT COMPUTER METHODS
NASA-CR-58820 N64-30506 22-09

ENCODER EVALUATION - OSCILLOSCOPE AND OSCILLOGRAPH COMBINED WITH LOGIC CIRCUITS TO CHECK PHASING AND DETECT NOISE N64-31492 23-15

INTEGRATED LOGIC NETS - METAL OXIDE SEMICONDUCTING TRANSISTOR ANALYSIS
AFCRL-64-649 N64-31996 23-09

LOGIC NETWORK
GENERAL INVARIABLE LOGIC EXPRESSIONS BY THRESHOLD LOGIC ELEMENTS
MH-TRANS-347 N64-11565 03-20

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AFCRL-63-328 N64-13609 05-20

LOGIC NETWORKS FOR MACHINE LEARNING USING STATISTICAL PROBABILITIES TO DETERMINE MACHINE BEHAVIOR - PROBABILITY STATE VARIABLE DEVICE
ASD-TDR-63-664, VOL. 2 N64-20269 13-20

LOGICAL DETERMINISM IN NETWORK SYNTHESIS
AL-TDR-64-80 N64-26207 18-20

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JPRS-25291 N64-28440 20-20

SYNTHESIS OF LOGIC NETWORKS N64-28442 20-20

MAGNETIC THIN FILM PARAMETRON LOGIC ELEMENTS
REPT.-5 N64-28775 20-09

LOGIC NETWORK ELEMENTS IN FLUID AMPLIFICATION
NASA-CR-59148 N64-33276 24-11

LOGICAL DESIGN
LOGICAL DESIGN OF ADVANCED ADAM COMPUTER AND PROGRAMMING
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CELLULAR LINEAR ARRAYS AND LOGICAL PROPERTIES
AFCRL-64-6 N64-18022 10-20

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RTD-TDR-63-4173, VOL. 2 N64-18940 11-20

EVALUATING LOGICAL DESIGN OF PROBLEM-ORIENTED SYMBOL PROCESSOR - ADAM AND IBM 7090 PROGRAM ASSEMBLIES
AFCRL-64-198 N64-21770 15-20

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LOGICAL DESIGN AND CONSTRUCTION OF TRANSISTORIZED DIGITAL COMPUTER FOR MICROMETEORITE DETECTION SYSTEMS
AFCRL-64-9A, APPEND. N64-24986 17-09

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LOGISTICS
SA LUNAR LOGISTICS
SA MAINTENANCE
SA TRANSPORTATION
CHOICE OF ANIMAL & LOGISTICS FOR BIOLOGICAL EXPERIMENTS IN SATELLITE N64-11688 03-16

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SID-62-1215 N64-14421 06-29

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P-2746 N64-16247 08-29

AEROSPACE GROUND EQUIPMENT FOR LARGE SOLID PROPELLANT ROCKET ENGINES - TRANSPORTATION, HANDLING, TEST, AND ASSEMBLY TECHNIQUES
RTD-TDR-63-1025, VOL. 1 N64-17646 09-10

SPACE LOGISTICS FOR ELECTRICAL POWER GENERATOR SYSTEM FOR SPACE STATION
AIAA PAPER-64-720 N64-28374 20-06

EQUIPMENT AND EMPLOYMENT CONCEPTS FOR CARGO HANDLING FUNCTIONS FOR LOGISTIC OPERATIONS
TRECOM-TR-64-26 N64-31953 23-17

ESTIMATORS FOR MEAN AND STANDARD DEVIATION OF LOGISTIC DISTRIBUTION N64-33087 24-20

LONG PERIOD EFFECT
LONG PERIOD LIBRATION OF TROJAN MINOR PLANET N64-25104 17-29

LONG RANGE
EFFECT OF SOLAR ACTIVITY CYCLING ON LONG RANGE WEATHER FORECASTING
JPRS-24167 N64-18526 11-21

EFFECTS OF SOLAR ACTIVITY AND ATMOSPHERIC CONDITIONS ON LONG RANGE WEATHER FORECASTING N64-18528 11-21

PROBLEMS OF SYNOPTIC METHOD OF LONG RANGE WEATHER FORECASTING N64-26438 18-21

LONG-RANGE WEATHER FORECASTING N64-27942 20-21

LONG WAVE RADIATION
LONG WAVE INFRARED SPECTRUM OF QUARTZ MERCURY LAMP
TIL/T-5375 N64-10859 02-23

LONG WAVE RADIATION & TOTAL RADIATION BALANCE AT SURFACE IN ARCTIC
AFCRL-63-909 N64-13770 05-21

MEASUREMENTS OF LONG WAVE RADIATION VERSUS ALTITUDE USING VERONIQUE ROCKET
AFCRL-64-77 N64-18636 11-08

PROPAGATION OF LONG WAVELENGTH TERRESTRIAL RADIO WAVES N64-19685 12-08

OUTGOING LONG & SHORT WAVE RADIANT FLUXES ONTO SURFACES IN IONOSPHERE N64-22033 15-28

SPECTRAL DISTRIBUTION OF OUTGOING LONG-WAVE RADIATION FLUXES DUE TO RADIATING WATER VAPOR, CARBON DIOXIDE OR OZONE
NASA-TT-F-210 N64-22676 15-28

RESPONSE OF PHOTOEMITTER SURFACE TO LONG WAVE RADIATION
AL-TDR-64-19 N64-26426 18-25

CALCULATION OF OUTGOING LONG WAVE RADIATION FLUX FROM SATELLITE RADIATION MEASUREMENTS N64-29084 21-28

WEATHER SATELLITES, ATMOSPHERIC OPTICS, AND LONG WAVE RADIATION TRANSFER N64-31531 23-23

LONGITUDE
HELIOGRAPHIC LONGITUDE OF SOLAR FLARES PRODUCING ENERGETIC PARTICLES
NASA-TM-X-55086 N64-33628 24-28

LONGITUDINAL STABILITY
ESTIMATION OF USUAL LONGITUDINAL AND LATERAL STABILITY DERIVATIVES OF AIRCRAFT
ARC-CP-664 N64-10402 01-02

EFFECT OF BETATRON OSCILLATIONS ON THE LONGITUDINAL STABILITY OF A COASTING BEAM
UCRL-6794 N64-11579 03-23

FLIGHT TEST EVALUATION OF AIRPLANE DYNAMIC LONGITUDINAL STABILITY IN LOW ALTITUDE, HIGH SPEED REGION
AD-427696 N64-13885 05-04

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NASA-TN-D-2201 N64-15404 07-02

SUPERSONIC LONGITUDINAL STABILITY OF FOUR-STAGE LAUNCH VEHICLE THIRD & FOURTH STAGES
NASA-TN-D-2190 N64-17159 09-30

TRIM STATE AND LONGITUDINAL STABILITY OF SLENDER INTEGRATED FLEXIBLE AIRCRAFT CONFIGURATION
ARC-R&M-3345 N64-18326 10-04

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NASA-TN-D-2283 N64-19322 12-02

LONGITUDINAL STABILITY OF LOW ASPECT RATIO WINGS HAVING VARIATIONS IN LEADING- AND TRAILING-EDGE CONTOURS
NASA-TN-D-1796 N64-31222 22-03

LONGITUDINAL WAVE
LONGITUDINAL PLASMA OSCILLATIONS - DISPERSION, VELOCITY DISTRIBUTION, AND PHYSICAL MECHANICS OF PLASMA INSTABILITY
NASA-CR-53821 N64-19314 12-24

EXCITATION OF LONGITUDINAL WAVES IN PLASMA BY TRANSVERSE RADIO WAVES
FTD-TT-64-174 N64-26885 18-24

RADIATION OF LONGITUDINAL WAVES IN MEDIA WITH WEAK SPATIAL DISPERSIONS N64-27168 19-24

USE OF BOLTZMANN EQUATION TO DERIVE DISPERSION LAW FOR COLLISIONS IN LONGITUDINAL PLASMA WAVES AND TRANSVERSE WAVE PROPAGATION
DI-82-0273 N64-29898 21-24

LONGITUDINAL ELASTIC WAVE VELOCITY IN POROUS MEDIA WITH LIQUID SATURATION - CRUDE OIL EXPLORATION
FTD-TT-64-210/1&2 N64-30877 22-12

LONGITUDINAL MOTION OF ELASTIC ROD WITH ATTACHED MASS IN RESISTING MEDIUM - LAPLACE TRANSFORM SOLUTION
NWL-1931 N64-31650 23-33

LOOP
SA CLOSED LOOP SYSTEM
CF CIRCUIT
CF RING
DIRECT CURRENT POWER SUPPLY FOR TRACING HYSTERESIS LOOP OF FERROELECTRIC CERAMIC MATERIALS
SC-RR-260-63 N64-11631 03-06

PHASE-LOCK LOOP - FALSE-LOCK PROBLEM
TDR-269/4250-45/-1 N64-13776 05-09

NUCLEAR REACTOR INDIUM-GALLIUM RADIATION LOOP
FTD-TT-63-553/1&2&4 N64-16051 07-23

CORROSION TEST LOOPS FOR EVALUATING REFRACTORY ALLOYS FOR USE IN SPACE ELECTRIC POWER SUPPLY SYSTEMS
NASA-CR-54008 N64-19222 11-18

PLASMA PRESSURE AND TEMPERATURE MEASUREMENTS USING INDUCTIVE COUPLING BETWEEN TWO LOOPS
MATT-250 N64-19717 12-24

MULTIPLE LOOP CONFIGURATION IN COUNTERPOISE SYSTEM TO ELIMINATE VHF OMNIDIRECTIONAL RANGE /VOR/ BEARING ERRORS
RD-64-47 N64-20439 13-09

HIGH PRECISION CALIBRATION LOOP FOR MAGNETIC FLOWMETER
EUR-1631.D N64-25363 17-15

PROGRAM FOR COMPUTING LOOP CURRENTS AS FUNCTION OF TIME IN CIRCUIT CONSISTING OF 14 INDUCTIVELY COUPLED LOOPS
UCRL-7864 N64-26842 18-09

RECEIVING AND TRANSMITTING PROPERTIES OF SMALL LINEAR ANTENNAS, CONICAL ANTENNAS, AND LOOPS FOR TRANSIENT ELECTROMAGNETIC FIELDS
TR-434 N64-27656 19-08

OPTIMUM CONTROL FACTORS FOR SINGLE-LOOP LINEAR CONTROL CIRCUIT WITH CONCENTRATED STRUCTURAL ELEMENTS AND MINIMUM PHASES N64-29323 21-09

HIGH TEMPERATURE GAS CIRCULATION IN MAGNETOPLASMADYNAMIC LOOPS N64-30430 22-10

POWER GENERATION WITH MAGNETOPLASMADYNAMIC GENERATOR LOOP N64-30431 22-10

POWER GENERATION WITH MAGNETOPLASMADYNAMIC GENERATOR LOOP N64-30432 22-24

HIGH TEMPERATURE HEATER FOR MAGNETOPLASMADYNAMIC LOOP N64-30433 22-10

PURIFICATION OF HELIUM FOR MAGNETOPLASMADYNAMIC LOOP N64-30434 22-10

CESIUM INJECTION INTO AND RECOVERY FROM MAGNETOPLASMADYNAMIC LOOP N64-30435 22-10

LOOP ANTENNA
SPACE RADIO SYSTEMS FACILITY WITH DIGITAL COMPUTER EQUIPMENT AND LOOP ANTENNA - RADIO COMMUNICATION
SSD-TDR-64-40 N64-22569 15-08

TRANSIENT RESPONSE OF RECTANGULAR LOOP ANTENNAS
NR-371-015 N64-25897 18-08

INPUT ADMITTANCE OF THIN BARE CIRCULAR LOOP ANTENNAS
NR-371-016 N64-26505 18-08

MATRIX REPRESENTATION OF MULTIPLE LOADED CIRCULAR LOOP ANTENNAS
TR-429 N64-26535 18-08

PROPERTIES OF ANTENNAS IN CONDUCTING MEDIA - INSULATED DIPOLE AND BARE CIRCULAR LOOP ANTENNAS
AFCRL-64-436 N64-32181 23-08

RADIATING AND CIRCUIT PROPERTIES OF CIRCULAR LOOP ANTENNA IMMERSED IN CONDUCTING MEDIA
AFCRL-64-339 N64-32617 23-08

LOOP ANTENNA RADIATION FIELDS N64-33580 24-08

LOR
S LUNAR ORBITAL RENDEZVOUS /LOR/

LORAN
TECHNIQUES FOR COMPUTING LORAN MAPS
NWL-1902 N64-21320 14-22

LORENTZ GAS
THERMOCONDUCTIVITY TENSORS FOR FULLY IONIZED LORENTZ-TYPE HYDROGEN GAS
AFCRL-64-615 N64-29289 21-13

RUNAWAY ELECTRONS IN IDEAL LORENTZ PLASMA WHERE ELECTRONS EXPERIENCE COULOMB COLLISIONS WITH INFINITELY MASSIVE IONS ONLY
MATT-226 N64-32395 23-24

LORENTZ TRANSFORMATION
PROOF OF INVALIDITY FOR LORENTZ-COVARIANT GRAVITATIONAL LAW - MOTION EQUATIONS
TR-2 N64-17316 09-23

LOS ALAMOS MOLTEN PLUTONIUM REACTOR /LAMPRE/
CF LIQUID METAL COOLED REACTOR /LMCR/
CF POWER REACTOR
CF RESEARCH REACTOR
LOS ALAMOS MOLTEN PLUTONIUM REACTOR /LAMPRE/ PROGRAM - REACTOR STATUS, SHIELDING, FUEL CONTAINER, AND FUEL STUDIES
LAMS-3021 N64-13200 04-23

LOS ALAMOS WATER BOILER REACTOR
RADIOACTIVE ISOTOPE CONTENT AND CONCENTRATION IN EFFLUENT GASES FROM WATER BOILER REACTOR STACK
LAMS-2937 N64-12112 03-10

LOSS
S ENERGY LOSS
S HEARING LOSS
S LEAKAGE
S TRANSMISSION LOSS
S WASTE

LOW ALTITUDE
HIGH SPEED, LOW ALTITUDE FLIGHT TESTS FOLLOWING TERRAIN, AND SPRING-MOUNTED SEAT TESTS IN FLIGHT
AGARD-442 N64-16662 08-04

ATMOSPHERIC TURBULENCE EFFECT ON PILOTS AND AIRCRAFT AT LOW ALTITUDE
AGARD-441 N64-17541 09-11

PILOT PERFORMANCE AT SIMULATED LOW ALTITUDE HIGH SPEED FLIGHT
NASA-CR-63 N64-23237 16-04

DOWNWIND DEPOSITION OF GLASS BEADS EJECTED FROM AIRCRAFT FLYING AT LOW ALTITUDE
SES-TN-136 N64-25876 18-21

DETERMINATION OF POSITION ERROR AT LOW ALTITUDES OF AIRSPEED AND STATIC PRESSURE MEASUREMENT SYSTEMS OF AIRCRAFT
RD-64-37 N64-26306 18-15

LARGE DIURNAL VARIATIONS IN ELECTRON INTENSITIES OF GEOMAGNETICALLY TRAPPED AND PRECIPITATED ELECTRONS OBSERVED IN DATA FROM LOW ALTITUDE INJUN III SATELLITE N64-29386 21-12

GEOGRAPHICAL ORIENTATION, OPERATIONAL PROBLEMS, HUMAN PERFORMANCE DURING VIBRATION, AND PHYSICAL AND GEOMETRIC PARAMETERS AFFECTING VISIBILITY IN LOW ALTITUDE HIGH SPEED FLIGHT
ACR-95 N64-31508 23-14

GEOGRAPHICAL ORIENTATION DURING LOW ALTITUDE FLIGHT N64-31509 23-14

OPERATIONAL PROBLEMS IN LOW ALTITUDE HIGH SPEED MISSION N64-31510 23-22

EFFECTS OF PHYSICAL AND GEOMETRIC PARAMETERS AND HUMAN VISUAL LIMITATIONS ON VISIBILITY DURING LOW ALTITUDE HIGH SPEED FLIGHT N64-31511 23-14

LOW ASPECT RATIO WING
FORCES ON LOW ASPECT RATIO RECTANGULAR WING OSCILLATING IN SONIC FLOW
ARC-R&M-3339 N64-13358 04-03

ESTIMATION OF LIFT CHARACTERISTICS OF VERY LOW ASPECT RATIO WINGS AT SUBSONIC SPEEDS N64-15628 07-03

HYDRODYNAMICS OF LOW ASPECT RATIO WING

N64-20777 14-02

WIND TUNNEL INVESTIGATION OF SINGLE AND TANDEM LOW ASPECT RATIO WINGS IN GROUND EFFECT
REPT. 16906 N64-21075 14-03

VERY LOW ASPECT RATIO WINGS IN HYPERSONIC FLOW
NOLTR-63-239 N64-21453 14-03

LONGITUDINAL STABILITY OF LOW ASPECT RATIO WINGS HAVING VARIATIONS IN LEADING- AND TRAILING-EDGE CONTOURS
NASA-TN-D-1796 N64-31222 22-03

LOW FREQUENCY
CALCULATION OF LOW FREQUENCY DIPOLE FIELD IN FAR ZONE ABOVE THREE-LAYER SECTION OF EARTH CRUST - GEOLOGICAL SURVEY
N64-11488 03-23

LOW-FREQUENCY FIELD THEORY EXTENSION TO FAR ZONE BY COMPLEX FUNCTIONS - GEOLOGICAL SURVEY
N64-11489 03-23

APPROXIMATE FORMULA FOR LOW-FREQUENCY DIPOLE FIELD CURVES OF HORIZONTAL LAMELLAR STRUCTURE ABOVE POORLY CONDUCTING BASE - GEOLOGICAL SURVEY
N64-11490 03-23

LOW FREQUENCY SPACE ANTENNAS
AFCRL-64-69 N64-17458 09-34

OBLIQUE REFLECTION OF CW LOW FREQUENCY RADIO WAVES FROM IONOSPHERE N64-19687 12-08

WIDTH OF SPECTRAL LINE OF LOW FREQUENCY AND RADIO FREQUENCY OSCILLATORS N64-23806 16-08

LOW FREQUENCY ELECTROMAGNETIC CONDUCTIVITY OF LOW DENSITY HIGH TEMPERATURE PLASMA
RM-3755-PR N64-26049 18-24

FABRICATION OF MICROELECTRONICS FOR TIME AND FREQUENCY CONTROL SYSTEMS - VERY LOW FREQUENCY AND LOW FREQUENCY SYNTHESIZER
MDE-3572 N64-26089 18-09

MODEL STUDIES OF INFLUENCE OF IONOSPHERE PERTURBATIONS ON VERY LOW FREQUENCY PROPAGATION
AD-440475 N64-26943 18-08

EXTREMELY LOW FREQUENCY WAVE MOTION STUDIES
F-2023-1 N64-27542 19-24

WIEN-BRIDGE OSCILLATOR AS LOW-FREQUENCY STANDARD
HDL-TR-1112 N64-29809 21-09

IONOSPHERIC REFLECTION COEFFICIENT & GROUP HEIGHT OF REFLECTION FOR LOW FREQUENCY RADIO WAVES CALCULATED BY FULL WAVE METHOD
AFCRL-64-611 N64-30546 22-12

EFFECTS OF LOW FREQUENCY MECHANICAL VIBRATIONS ON BLOOD CHANGES IN WHITE RATS
FTD-TT-64-242/1 N64-30703 22-16

LOW FREQUENCY APPROXIMATIONS FOR SCATTERING BY DIELECTRIC ELLIPTIC CYLINDERS USED IN MATHIEU FUNCTION SERIES SOLUTION
EDL-M725 N64-32562 23-23

LOW LEVEL, LOW-FREQUENCY PHOTOCELL AMPLIFIER-DESIGN, COMPONENTS, TEST RESULTS
TR-64-71 N64-33836 24-09

CHARACTERISTICS OF HYDROCARBONS FROM LOW FREQUENCY ELECTRIC DISCHARGE IN METHANE
NASA-RP-361 N64-33991 24-29

LOW FREQUENCY TRANSIONOSPHERIC /LOFTI/ SATELLITE
VERY LOW FREQUENCY RADIO PROPAGATION FROM LOFTI 1 SATELLITE N64-19683 12-12

PREDICTION OF ORBIT DECAY OF LOFTI-2 SATELLITE
NRL-6049 N64-23606 16-22

LOW NOISE
LOW NOISE TRAVELING-WAVE TUBES - ENVIRONMENTAL TESTING
AD-427547 N64-13962 05-09

MASERS FOR LOW-NOISE RECEIVING SYSTEMS
NASA-CR-53044 N64-14895 06-25

LOW NOISE TUNABLE AMPLIFIER EQUIPMENT FOR E-BAND OPERATION
RADC-TDR-63-505 N64-15498 07-09

EVALUATION OF MECHANICAL PROPERTIES OF METALS BY SPECIAL TECHNIQUES OR FOR SPECIAL APPLICATIONS
N64-17213 09-18

LOW NOISE RECEIVING SYSTEMS FOR SATELLITE COMMUNICATIONS GROUND STATIONS N64-18245 10-08

LOW NOISE MICROWAVE AMPLIFICATION BY USE OF TUNNEL CATHODE
RADC-TDR-64-116 N64-21176 14-09

LOW-NOISE MILLIMETER-WAVE PARAMETRIC AMPLIFIER
REPT.-2 N64-21831 15-08

USE OF LOW-NOISE AMPLIFIER IN SPECTRAL RADIOMETER
N64-23793 16-08

LOW-NOISE, BACKWARD-WAVE OSCILLATOR
USAELRDL-TR-2441 N64-24848 17-09

LOW NOISE MILLIMETER WAVE PARAMETRIC AMPLIFIER
REPT.-3 N64-25704 17-09

LOW NOISE, MULTIPLE FUNCTION, X-BAND TRAVELING WAVE TUBE
IDR-3 N64-29661 21-09

THERMIONIC AND NONTHERMIONIC EMISSION CATHODES WITH LOW NOISE TEMPERATURE
S-660 N64-30021 21-09

PRECISION POTENTIOMETERS - LOW NOISE & LONG LIFE
N64-31483 23-15

LOW NOISE KA-BAND RECEIVING SYSTEM USING TUNABLE TRAVELING WAVE MASER AND RADIOMETER
REPT.-8298-1 N64-32594 23-08

RESEARCH IN MICROWAVE AND QUANTUM ELECTRONICS - PLASMA AND LOW NOISE TECHNIQUES
AL-TDR-64-158 N64-32672 23-24

LOW NOISE TRAVELING WAVE TUBES - ENVIRONMENTAL AND ELECTRICAL TESTS
MEC-MTR-NOBSR-81227-20 N64-32721 24-09

LOW SPEED
AERODYNAMIC ASPECTS OF BOUNDARY LAYER CONTROL FOR HIGH LIFT AT LOW SPEEDS DURING APPROACH, LANDING, AND TAKEOFF - AIRCRAFT DESIGN AND HANDLING
AGARD-414 N64-11907 03-03

DYNAMIC ASPECTS OF STABILITY IN LOW SPEED FLYING MACHINES
TRECOM-TR-63-56 N64-17282 09-04

LOW SPEED, FREE FLIGHT STABILITY AND DRAG CHARACTERISTICS OF RADIALLY VENTED PARACHUTES
NASA-TN-D-2271 N64-17729 09-04

AIRCRAFT MODEL FLIGHT TEST TECHNIQUES FOR LOW SPEED STUDIES OF DYNAMIC STABILITY AND CONTROL
AGARDOGRAPH-76 N64-19780 12-04

HUMAN PERFORMANCE DURING SINUSOIDAL AND RANDOM VIBRATION IN LOW SPEED, HIGH ALTITUDE FLIGHT
N64-31512 23-14

LOW SPEED WIND TUNNEL
LOW SPEED WIND TUNNEL TEST OF 70-DEG CROPPED DELTA WING WITH EDGE BLOWING
COA-162 N64-10212 01-03

OIL-BURNING SMOKE PRODUCER FOR FLOW VISUALIZATION IN LOW SPEED WIND TUNNEL
ARL/A-202 N64-10983 02-02

ROLLING MOMENT MEASUREMENTS ON ELASTIC MODEL WING OF M-PLANFORM IN LOW SPEED FLOW
ARC-R&M-3362 N64-26704 18-03

EFFECTS OF SCREENS AND HONEYCOMB ON SKIN FRICTION

VARIATIONS IN LOW SPEED WIND TUNNELS
TN-64-7 N64-33734 24-10

LOW TEMPERATURE
SA CRYOGENIC TEMPERATURE
OXIDATION OF TITANIUM IN AIR AND WATER AT LOW TEMPERATURE
JPRS-17815 N64-10567 01-18

APPARATUS FOR MEASURING HEMISPHERICAL EMITTANCE OF SOLIDS IN AMBIENT & LIQUID NITROGEN TEMPERATURE RANGE, WITH COPPER & ALUMINUM FOIL DATA
N64-10942 02-13

CALORIMETER FOR MEASURING TOTAL HEMISPHERICAL EMITTANCE IN LOW TEMPERATURE RANGE
N64-10951 02-18

EMITTANCE MEASUREMENT FOR SHEET MATERIALS AT LOW TEMPERATURE, AND MATHEMATICAL EXPRESSION FOR CYLINDRICAL CONFIGURATION N64-10954 02-13

LOW-TEMPERATURE SINTERING OF MOLYBDENUM
N64-11021 02-18

FLUORESCENCE OF GREEN PLANT CHLOROPLASTS UNDER VISIBLE LIGHT EXCITATION AT LOW TEMPERATURES
N64-13326 04-23

LOW TEMPERATURE ELECTRONICS - CRITICAL-CURRENT CRITICAL-FIELD CHARACTERISTICS OF ANNEALED NIOBIUM WIRE SPECIMENS
SSD-TDR-63-311 N64-14511 06-23

EVALUATION OF CATHODE MIX, SEPARATOR PAPER, CAN MATERIAL, AND CATHODE MOLDING PARAMETERS FOR LOW TEMPERATURE ALKALINE-MANGANESE DIOXIDE BATTERY
AD-433225 N64-17622 09-06

VALUES FOR LOW TEMPERATURE PLASTIC-DEFORMATION OF NIOBIUM DERIVED FROM CREEP TESTS, EQUIVALENT TO VALUES OBTAINED IN CONSTANT STRAIN RATE TESTS
ATN-64/9236/-9 N64-17781 09-18

THERMOELECTRIC CONTROL IN FREQUENCY STANDARD
IDR-12 N64-26280 18-23

COMPLEX DIELECTRIC CONSTANT OF MAGNETOACTIVE PLASMA AT LOW TEMPERATURE N64-27155 19-24

SYNTHESIS OF POLYETHER URETHANE ELASTOMERS & THEIR OIL RESISTANCE AND LOW TEMPERATURE FLEXIBILITY
AD-421811 N64-31249 22-19

RADICAL MATRIX INTERACTIONS IN LOW TEMPERATURE GLASSES - PHOTOREVERSABILITY
SSD-TDR-64-110 N64-31980 23-25

LOW TEMPERATURE ENVIRONMENT
RECTAL TEMPERATURE OF WORKING SLED DOGS IN LOW TEMPERATURE ENVIRONMENT
AAL-TDR-63-40 N64-13633 05-16

EXPOSURE OF MICE TO LOW TEMPERATURES FOR SUSCEPTIBILITY TESTS TO KLEBSIELLA PNEUMONIAE
AAL-TDR-63-9 N64-18874 11-16

SPIN-LATTICE RELAXATION TIME CALCULATION FOR RUBY WITH LOW CHROMIUM CONCENTRATION AND AT LOW TEMPERATURE N64-19305 12-25

THERMAL ENERGY EMISSION MEASUREMENTS IN PLASTIC TENSILE DEFORMATION OF METAL AT LOW TEMPERATURES
D1-82-0311 N64-20637 13-13

ALUMINUM ALLOY CASTINGS WITH HIGH IMPACT STRENGTH AT LOW TEMPERATURES
NASA-CR-58 N64-21254 14-18

LOW TEMPERATURE INVESTIGATION OF MATERIALS FOR PROBABLE SPACE APPLICATION
FTD-TT-63-513/1 N64-21949 15-13

ISOTOPE EFFECTS ON DECOMPOSITION OF ACTIVATED CIS-BUTENE-2 AT LOW TEMPERATURES
AD-432304 N64-22127 15-07

MECHANICAL PROPERTIES OF 18 PERCENT NICKEL MARAGING STEEL AT LOW AND CRYOGENIC TEMPERATURES
N64-24363 17-18

PERFORMANCE OF HEATED AND UNHEATED INSULATED BATTERY SYSTEMS IN LOW TEMPERATURE ENVIRONMENT
QR-6 N64-25294 17-06

SEMICONDUCTOR RESEARCH - ELECTRICAL AND OPTICAL PROPERTIES, IRRADIATION EFFECTS, & LOW TEMPERATURE STUDIES
AD-439233 N64-27344 19-25

HYPOTHERMIA AND CESSATION OF VITAL ACTIVITY IN ORGANS OF NONHIBERNATING MAMMALS
JPRS-25650 N64-27503 19-16

ADHESIVES WITH HIGH FLEXIBILITY AND CONDUCTIVITY AT LOW TEMPERATURES
MLM-1207 N64-28501 20-07

MECHANICAL PROPERTIES OF SIMULATED SOLID PROPELLANTS UNDER HIGH STRAIN RATE AND LOW TEMPERATURE ENVIRONMENT
MRL-ONR-3 N64-33273 24-26

LOW TEMPERATURE PHYSICS
HEAT CAPACITIES OF THIN FILMS & RODS AT LOW TEMPERATURES
FTD-TT-63-517/1&2 N64-11191 02-13

LOW TEMPERATURE & FATIGUE PROPERTIES OF CERTAIN METAL ALLOYS N64-32363 23-18

LOW THRUST PROPULSION
LOW CONSTANT THRUST PROPULSION AND INTERPLANETARY TRAJECTORY ANALYSIS
REPT.-26 N64-13473 05-29

USING LOW THRUST ENGINES TO CONTROL POSITION, PERIOD, AND ECCENTRICITY OF SATELLITE ORBITS
TDR-269/4504-20/-1 N64-16876 08-22

ORBIT RAISING BY LOW THRUST PROPULSION IN CONTINUOUS SUNLIGHT
NASA-TN-D-2072 N64-18078 10-29

PERTURBATION SOLUTIONS FOR EQUATIONS OF MOTION OF VEHICLE SUBJECTED TO LOW THRUST ACCELERATION
N64-20965 14-29

APPROXIMATE ANALYSIS OF OPTIMUM LOW THRUST TRANSFER BETWEEN COPLANAR HYPERBOLIC ORBITS
VKI-TN-15 N64-23675 16-22

LOW THRUST PROPULSION OSCILLATORY ASCENDING SPIRAL TRAJECTORIES AND EFFECT OF ATMOSPHERIC DRAG
ADN-06-06-63.3 N64-25917 18-29

GUIDANCE OF INTERPLANETARY SPACECRAFT UNDER LONG PERIODS OF LOW THRUST PROPULSION
NASA-CR-56188 N64-27301 19-29

MECHANICS OF SPACE FLIGHT WITH LOW THRUST PROPULSION N64-30426 22-23

LOW VISCOSITY
LOW VISCOSITY ROTOR BEARING STABILITY
NASA-CR-54039 N64-19224 11-17

LOWER IONOSPHERE
IONIZATION OF LOWER IONOSPHERE BY BREMSSTRAHLUNG FROM AURORAL ELECTRON FLUX
NASA-TN-D-2096 N64-10058 01-12

LOW FREQUENCY IONOSONDE INVESTIGATIONS AND ROCKET MEASUREMENTS IN D-REGION AND LOWER E-REGION
AFCRL-63-924 N64-15952 07-12

ELECTRON DENSITY PROFILES IN LOWER ATMOSPHERE DUE TO SOLAR COSMIC RAYS
CR-68 N64-15977 07-12

MAGNETOHYDRODYNAMIC WAVE PROPAGATION AND BOUNDARY VALUE PROBLEMS IN LOWER IONOSPHERE
ARA-T-9197-12 N64-16837 08-12

NONLINEARITY OF LOWER IONOSPHERE DETECTED BY RADIO PROPAGATION STUDIES N64-19679 12-12

POLAR CAP ABSORPTION CAUSED BY INCREASE IN

IONIZATION OF LOWER IONOSPHERE N64-20771 14-12

ELECTRON DENSITY IN LOWER IONOSPHERE AT SUNRISE
NASA-TT-F-8695 N64-27276 19-12

IONIZATION AND DEIONIZATION IN LOWER IONOSPHERE - GEOPHYSICAL OBSERVATIONS AND LABORATORY MEASUREMENTS
AD-418467 N64-29315 21-12

ROCKET MEASUREMENT OF ELECTRON DENSITY IN LOW IONOSPHERE
NASA-RP-347 N64-32641 23-12

LOX-HYDROGEN ENGINE
HYDROGEN-OXYGEN FUELED AUXILIARY ELECTRIC POWER GENERATING SYSTEM FOR USE IN SPACE VEHICLES
NASA-CR-55060 N64-11819 03-06

LPTR
S LIVERMORE POOL TYPE REACTOR /LPTR/

LUBRICANT
SA GRAPHITE
SA GREASE
SA OIL
SA PETROLEUM
SA SOLID LUBRICANT
ELASTOHYDRODYNAMIC LUBRICATION IN ROLLING CONTACT BEARING FATIGUE
NASA-RP-43 N64-10175 01-33

EFFECT OF PRESSURIZED LUBRICANT ON SELF-ACTING FOIL BEARING FILMS
RR-63-6 N64-12079 03-17

DEFECTS IN COMPRESSION LOADING OF LUBRICANT FILM AT TOOL-METAL INTERFACE IN PLASTIC COMPRESSION OF ALUMINUM
WAL-TR-620.5/1-1/F/ N64-12322 03-11

LUBRICANT GREASES NONREACTIVE WITH MISSILE FUELS AND OXIDIZERS
FA-A63-10 N64-12705 04-26

DRY FILM LUBRICANTS APPLIED TO ALUMINUM AND MAGNESIUM ALLOYS
A262 N64-13253 04-19

GAS-LUBRICATED BEARINGS N64-15231 07-11

LIQUID LUBRICANTS FOR BEARINGS N64-15233 07-19

NONCONVENTIONAL LUBRICANTS FOR BEARINGS N64-15234 07-19

BEARING LUBRICATION WITH LIQUID METALS N64-15240 07-18

TURBULENCE IN LUBRICANT FOR TURBOMACHINES - SPACECRAFT POWER SUPPLY
NASA-CR-55803 N64-16034 07-17

LIQUID METAL LUBRICANTS FOR HIGH TEMPERATURE USE
FTD-TT-63-574/1&2&4 N64-16427 08-17

GROWTH AND NONGROWTH OF VARIOUS MICROORGANISMS IN JET FUELS, LUBRICANTS, AND HYDROCARBONS
RTD-TDR-63-4117, PT. 1 N64-18029 10-26

INORGANIC SOLIDS FOR HIGH TEMPERATURE LUBRICANTS
JPRS-23893 N64-18091 10-01

CORROSION PREVENTION WHEN USING MOLYBDENUM DISULFIDE LUBRICANTS N64-19153 11-17

EFFECT OF COBALT 60 IRRADIATION ON WEAR LIFE OF SOLID FILM LUBRICANTS
FTDM-3006 N64-20047 13-17

EFFECTS OF RADIATION & HIGH TEMPERATURE ON CERAMIC BONDED FILM LUBRICANT MATERIALS
FTDM-3053 N64-20049 13-17

IGNITION CHARACTERISTICS OF FUELS AND LUBRICANTS
APL-TDR-64-25 N64-21317 14-26

TECHNIQUE FOR APPLYING LUBRICANT-COOLING FLUIDS IN CUTTING METALS
FTD-TT-63-105/1&2 N64-22342 15-17

DRY FILM LUBRICANT EFFECT ON CORROSION RESISTANCE OF COATED AND UNCOATED ALLOYS
A753 N64-22595 15-17

EFFECTS OF CADMIUM PLATE SUBSTRATE ON WEAR LIFE AND CORROSION RESISTANCE OF DRY FILM LUBRICANT COATED BEARINGS
A754 N64-22596 15-17

CORROSION AND ANTIWEAR TESTING OF INORGANIC SALTS FOR HIGH TEMPERATURE LUBRICANTS
FTD-TT-63-1151/1&2 N64-23443 16-17

NONFLAMMABLE HYDRAULIC FLUIDS & LUBRICANTS
BMPR-3 N64-24152 16-19

ANNOTATED BIBLIOGRAPHY ON GEARS, BEARINGS, AND LUBRICANTS FOR AEROSPACE APPLICATIONS
SB-63-59 N64-24921 17-17

BEARING & LUBRICANT REQUIREMENTS FOR AEROSPACE INDUSTRY & TECHNOLOGY
R64SD38 N64-25356 17-17

GAS LUBRICATION AT HIGH TEMPERATURES AND LOW FLOW RATES - NITROGEN GAS LUBRICATED JOURNAL AND THRUST BEARINGS
APL-TDR-64-56 N64-25484 17-17

FIRE RESISTANT, WATER-BASE LUBRICANT AND HYDRAULIC FLUID - ESTER SYNTHESIS, BLENDING FORMULAS, AND VISCOSITY
AD-600568 N64-25984 18-19

LUBRICANTS FOR BEARINGS OPERATING IN LIQUID HYDROGEN AND NUCLEAR RADIATION ENVIRONMENT
NASA-CR-56947 N64-27311 19-17

DEVELOPING NONFLAMMABLE HYDRAULIC FLUIDS AND LUBRICANTS
BMPR-4 N64-28130 20-17

HIGH TEMPERATURE ENVIRONMENT FOR HYDRAULIC FLUIDS, ELECTRONIC COOLANTS, FUELS, AND LUBRICANTS
N64-28180 20-26

REACTOR RADIATION EFFECTS ON BENZENE COMPOUND USED AS LUBRICANT IN HIGH-SPEED, HIGH-TEMPERATURE BALL-BEARING RIG
NARF-63-17T N64-29813 21-17

RADIATION EFFECTS ON ELECTRONICS, POLYMERIC MATERIALS, AND LUBRICANTS
REIC-34 N64-29870 21-25

METHODS OF SIZE PERCEPTION AND COUNTING PARTICLES IN HYDRAULIC FLUIDS AND LUBRICANTS
ML-TDR-64-72 N64-30652 22-15

LUBRICANT PERFORMANCE ON HIGH SPEED ROLLING CONTACT BEARINGS
ASD-TDR-61-643, PT. IV N64-31938 23-17

TEST RIG TO EVALUATE EXPERIMENTAL GAS TURBINE LUBRICANTS AT HIGH TEMPERATURE
APL-TDR-64-49 N64-31941 23-17

HIGH TEMPERATURE EXTRUSION LUBRICANTS - MAGNESIUM BORATE-GRAPHITE LUBRICANT FOR STEEL AND MOLYBDENUM ALLOY EXTRUSION
ML-TDR-64-256 N64-32151 23-17

DEVELOPMENT OF LUBRICATING FILM MATERIALS FOR LONG-LIFE CONTACT SEALS USED IN HIGH-SPEED ROTATING SHAFT IN LIQUID POTASSIUM DYNAMIC POWER SYSTEM
AD-449609 N64-32651 23-17

HIGH TEMPERATURE LUBRICANTS FOR ROLLER BEARINGS USED IN SPACE ENVIRONMENT
AD-449772 N64-32661 23-17

LUBRICATION
IMPORTANCE OF AGING AIRCRAFT ENGINE LUBRICATING OILS - DESCRIPTION OF HIGH TEMPERATURE AGING UNIT
OVL-287 N64-11308 02-07

HYDRAULIC LUBRICATING FLUID EVALUATION
FTDH-2907 N64-12330 03-17

LUBRICATION OF GUIDANCE, CONTROL, AND INSTRUMENT BEARINGS IN SPACE ENVIRONMENT
NASA-TM-X-50798 N64-12400 03-17

TORQUE LEVELS FOR LUBRICATED BEARINGS AT LOW TEMPERATURES & VARIOUS LOADINGS
NASA-CR-55268 N64-13399 04-17

SPACECRAFT LUBRICATION PROBLEMS WITH SPECIFIC APPLICATIONS TO RANGER, MARINER, & SURVEYOR PROGRAMS
NASA-CR-53034 N64-13405 04-17

BOUNDARY LUBRICATION OF BEARINGS
N64-15228 07-17

HYDRODYNAMIC LUBRICATION OF BEARINGS
N64-15229 07-11

HYDROSTATIC LUBRICATION OF BEARINGS
N64-15230 07-11

FRICTION OF METALS, LUBRICATING COATINGS, AND CARBONS IN LIQUID NITROGEN AND HYDROGEN
N64-15236 07-17

INFLUENCE OF LUBRICATION ON ENDURANCE, WEAR, AND CONDUCTIVITY OF ROLLING CONTACTS
AL64T003 N64-16087 07-17

BEARING LUBRICATION
S-13910 N64-16980 09-17

HIGH VACUUM LUBRICATION OF SOLID CARBON MATERIALS
NASA-RP-146 N64-17565 09-17

INFLUENCE OF LUBRICATION ON ENDURANCE IN ROLLING CONTACTS
AL63T018 N64-18701 11-17

ADAPTATION OF MOLYBDENUM SULFIDE IN SITU PROCESS FOR LUBRICATING SPACECRAFT MECHANICAL COMPONENTS
N64-19364 12-17

SPACE ENVIRONMENT LUBRICATION N64-19952 12-17

RADIATION EFFECT ON GTO-915 LUBRICATING OIL FOR HIGH TEMPERATURE JET ENGINE APPLICATION
FGT-2767 N64-20037 13-17

DEPOSITION OF MOLYBDENUM DISULFIDE FILM FOR SPACECRAFT MECHANISM LUBRICATION
NASA-TN-D-2288 N64-21064 14-17

ELASTOHYDRODYNAMIC LUBRICATION FOR ROLLING CONTACT BEARINGS, GEARS, AND CAMS
MTI-64TR6 N64-21121 14-17

BEARING LUBRICATION UNDER SEVERE CONDITIONS
S-13918 N64-21146 14-17

SELF-ACTING FOIL BEARING WITH FLUID FILM LUBRICATION
RR-64-3 N64-21147 14-17

NUMERICAL SOLUTION TO THERMAL-ELASTOHYDRODYNAMIC LUBRICATION OF ROLLING AND SLIDING CYLINDERS
MTI-64TR7 N64-21223 14-17

BARIUM, GOLD, AND SILVER FILM LUBRICATION OF MINATURE BALL BEARINGS FOR VACUUM SYSTEM USE
NASA-TN-D-2304 N64-21268 14-17

INFLUENCE OF LUBRICATION ON ENDURANCE OF ROLLING CONTACTS
AL64T014 N64-21691 15-17

ADSORPTION OF COMPOUNDS ON BEARING SURFACES AND COMPARISON OF LUBRICATIVE ABILITY
REPT.-64-232 N64-24011 16-07

HELICOPTER GEAR LUBRICATION
S-131914 N64-24014 16-04

RADIATION EFFECTS ON LUBRICATING OIL UNDER STATIC AND DYNAMIC CONDITIONS
FGT-2622 N64-26279 18-17

GALLING RESISTANCE OF SKEWED AXIS WING-FOLD FITTINGS & THRUST SURFACES - LUBRICATION & SURFACE FINISH EFFECTS
ADR-05-06-64.1 N64-27191 19-17

SOLID LUBRICANT FOR BEARINGS IN HIGH VACUUM ENVIRONMENT
NASA-CR-58039 N64-27310 19-17

RADIOTRACER AND ELECTRICAL CONDUCTIVITY MEASUREMENTS OF LUBRICATION INFLUENCE ON ROLLING CONTACT ENDURANCE
AL64T037 N64-27730 19-17

TESTING MATERIALS FOR POTASSIUM LUBRICATED JOURNAL BEARINGS
NASA-CR-54113 N64-28085 20-18

LUBRICATION RESEARCH AND TESTING METHODS FOR AEROSPACE PROPULSION SYSTEM
APL-TDR-64-50 N64-28276 20-17

ELASTOHYDRODYNAMICS - PRESSURE AND SURFACE TEMPERATURE DISTRIBUTION AND DEFORMATION PROFILE IN CONCENTRATED LUBRICATED ROLLING-SLIDING CONTACT
MTI-64TR37 N64-29349 21-17

FRICTIONAL PROBLEMS IN SPACECRAFT MECHANISMS CAUSED BY SPACE ENVIRONMENTS
NASA-CR-58704 N64-29508 21-17

PRINCIPLES OF LUBRICATION & PROPERTIES OF SOLID LUBRICANTS N64-29890 21-17

LUBRICATION OF TURBOJET AND TURBOPROP ENGINES
FTD-TT-64-143/1&2 N64-30153 21-17

LUBRICATION OF SMALL ROTATING COMPONENTS - MINIATURE PRECISION BALL BEARINGS
N64-31482 23-17

NITROGEN GAS LUBRICATED JOURNAL AND THRUST BEARINGS FOR APPLICATION IN HIGH TEMPERATURES AND LOW FLOW RATES
MTI-64TR35 N64-32122 23-17

TURBULENT FLOW LUBRICATION THEORY FOR COMPOSITE TILTING-PAD JOURNAL BEARINGS
NASA-CR-54195 N64-32352 23-17

LUBRICATION OF BEARINGS IN AEROSPACE EQUIPMENT
N64-32771 24-17

HYDROCARBONS, ESTER BASE OIL, AND POLYPHENYL ETHER FOR LUBRICATING VACUUM MELTED STEEL BALL BEARINGS AT HIGH SPEEDS AND TEMPERATURES
NASA-CR-59283 N64-33330 24-17

LUBRICATION SYSTEM
GOLD-PLATED BALL BEARING FOR SATELLITE LUBRICATING SYSTEM
NASA-TN-D-2101 N64-11237 02-17

LUBRICANTS AND MECHANICAL COMPONENTS OF LUBRICATION SYSTEM FOR SPACE ENVIRONMENT
NASA-TM-X-52031 N64-20577 13-17

COMPLEX BEARING AND LUBRICATION SYSTEMS FOR HIGH SPEED, HIGH TEMPERATURE OPERATION
FDL-TDR-64-12 N64-26186 18-17

LUCITE
S ACRYLATE
S RESIN

LUDER BAND
STRESS EFFECT ON LUDER BAND VELOCITY AT ROOM TEMPERATURE IN NIOBIUM
ATN-64/9236/-5 N64-17866 10-25

LUMINESCENCE
SA CHEMILUMINESCENCE
SA ELECTROLUMINESCENCE
SA FLUORESCENCE
SA LIGHT
SA PHOSPHORESCENCE
SA SELF-LUMINOUS BODY

THERMOLUMINESCENCE BIBLIOGRAPHY
TID-3911/REV. 1/ N64-10313 01-25

ISOLATION OF ANTIBODIES FROM AGGLUTINATING ANTI-PLAGUE & ANTICHOLERA SERUM, AND PURIFICATION, USING NEW LUMINESCENT STAIN
JPRS-19936 N64-11220 02-16

LUNAR LUMINESCENCE IN MARE SERENITATIS, RAY NEAR BESSEL REGION, AREA EAST OF PLATO, AND ARISTARCHUS MEASURED WITH SPECTROPHOTOMETER
AFCRL-63-743 N64-11454 03-05

LUMINESCENT INTENSITY OF SAMARIUM AND EUROPIUM COMPOUNDS WITH BENZOYLACETONE, DIBENZOYLMETHANE, AND ACETYLACETONE
STL-TRANS-74 N64-12015 03-23

LUMINESCENT JUNCTIONS IN WIDE-GAP SEMICONDUCTOR
AFCRL-63-389 N64-12312 03-25

LUMINESCENT ANALYSIS OF LACUSTRINE ZOOPLANKTON
N64-12498 04-16

INFLUENCE OF RESONANCE TRANSFER ON LUMINESCENCE DECAY
SSD-TDR-63-301 N64-12614 04-25

PROTON ACCELERATOR FOR LUMINESCENT EXCITATION IN METEORIC SAMPLES AND PHOTOELECTRIC SPECTRO-PHOTOMETER FOR LUNAR LUMINESCENCE SIMULATION
AFCRL-63-759 N64-12709 04-29

LUMINESCENCE INTENSITY-CURRENT-TEMPERATURE RELATIONSHIPS FOR CUPROUS SELENIDE-ZINC SELENIDE DIODES
N64-13749 05-25

LUMINESCENCE OF COMPLEX ORGANIC MOLECULES DURING ENERGY LEVEL CONVERSION
AID-B-63-125 N64-14021 05-23

LUMINESCENT MICROSCOPY OF HEMATOPOIETIC SYSTEMS USING IONIZING RADIATION
JPRS-22915 N64-14148 05-16

TEMPERATURE DEPENDENCE OF BACTERIOVIRIDIN LUMINESCENT INTENSITY IN PHOTOSYNTHETIC BACTERIA
JPRS-23054 N64-14529 06-16

CONCENTRATION OF DUST IN UPPER ATMOSPHERE AS INDICATED BY VARIATIONS IN LUMINESCENT INTENSITY
N64-15458 07-23

RELATIONSHIP BETWEEN BIOCHEMILUMINESCENCE AND HEAT RESISTANCE OF PLANTS
JPRS-23735 N64-16950 09-16

ATOM DENSITY MEASUREMENTS BY LUMINESCENCE OF SOLIDS
NASA-CR-20 N64-17987 10-25

PHOTOMULTIPLIER IMPROVEMENT - LITHIUM FLUORIDE THERMOLUMINESCENT DOSIMETER FOR DETECTION OF AURORAL ELECTRONS
AFCRL-64-166 N64-20148 13-15

LUMINESCENCE CAUSED BY PROTEIN COMPONENT OF RAT LIVER CELLS UNDER ULTRAVIOLET RAY EXCITATION
JPRS-24605 N64-20232 13-16

THERMOLUMINESCENT KINETICS OF ALPHA IRRADIATED ALKALI HALIDES
NASA-RP-177 N64-21303 14-25

TEMPERATURE AND EFFICIENCY DETERMINATION OF LIGHT SOURCE BY CHANGE IN ABSORPTION CAPACITY OR LUMINESCENCE OF SUBSTANCE
FTD-TT-64-153/162 N64-22667 15-23

LUMINESCENCE, IONIZATION, AND RADIATION PHYSICS
JPRS-24842 N64-24564 17-23

THERMOLUMINESCENCE OF PHOSPHORS BASED ON CALCIUM SULFATE WITH MANGANESE AND SAMARIUM ACTIVATORS
N64-24568 17-23

DOSIMETRIC STUDY OF THERMAL LUMINESCENCE OF LITHIUM FLUORIDE DOPED WITH EUROPIUM AND MAGNESIUM
UCRL-7811 N64-25362 17-23

ENERGY TRANSFER ABSORPTION BY URANYL ION TO NEODYMIUM ION CAUSING NEODYMIUM-3 ION LUMINESCENCE IN BARIUM CROWN GLASS HOST MATRIX
NRL-1525 N64-27523 19-25

THERMOLUMINESCENT DOSIMETER COMPUTER-INDICATOR SYSTEM
S-248-R N64-27915 20-15

IONIZING RADIATION DOSIMETRY BASED ON MEASUREMENT OF THERMOLUMINESCENCE OF ALUMINA-PHOSPHATE GLASSES
NRL-TRANS-972 N64-30180 21-15

POST-LUMINESCENCE OF HYDROGEN IMPURITY IN HELIUM OR NEON PLASMA EXCITED IN PULSES
NASA-TT-F-8959 N64-30852 22-24

SPECTROGRAPHY AND SPECTROMETRY OF LUMINOUS CHEMICAL RELEASES - FIREFLY PROJECT
N64-31381 23-12

LABORATORY SIMULATION OF LUNAR LUMINESCENCE
AFCRL-64-749 N64-31740 23-10

LUNAR LUMINESCENT EXCITATION BY SOLAR PROTONS - BOMBARDMENT OF STONY METEORITES
N64-32077 23-28

LUMINESCENCE OF ROCKS ON MOON DUE TO PETROLEUM BITUMENS
T-380-R N64-33489 24-29

LUMINESCENT PROPERTIES OF MIXED PHENYL AND P-BIPHENYLYL SILANES
GSP/PHYS/64-11 N64-33820 24-07

LUMINOSITY
SA SHOCK WAVE LUMINOSITY
SA STELLAR LUMINOSITY
LUMINOSITY OF CADMIUM SULFIDE & SILICON COOLED TO LIQUID HELIUM TEMPERATURE & BOMBARDED BY THREE ELECTRONS - TRANSITIONS N64-11402 02-23

LUMINOUS FLUX MODULATION BY RADIAL-SLOT SHUTTERS OF DISPLAY SYSTEMS - CYBERNETICS
N64-12471 04-06

STELLAR POPULATION OF GALAXY NGC 3379, BASED ON MASS-LUMINOSITY RATIO AND SPECTROGRAMS
N64-15174 07-05

HIGH VELOCITY CUMULATIVE JETS - STRUCTURAL ANALYSIS BY SLOW MOTION PHOTOGRAPHY AND LUMINOSITY SPECTRA
FTD-TT-63-566/1&2&4 N64-16378 08-11

DIGITAL COMPUTER USED TO DETERMINE POSITION OF LUMINOUS VAPOR TRAIL OR CLOUD
AFCRL-64-225 N64-16565 08-21

LUMINOUS EFFICIENCY OF METEORS
NASA-CR-55904 N64-16723 08-05

LUMINOUS INTERGALACTIC MATERIAL
N64-28393 20-05

LUNAR BASE
COMPACT ELECTRICAL POWER STATION FOR MANNED LUNAR SCIENTIFIC BASE
NASA-TM-X-51372 N64-13063 04-06

MANNED LUNAR BASE N64-13702 05-29

LUNAR BASE CONSTRUCTION N64-13707 05-29

ARCHITECTURAL DESIGN OF LUNAR BASE
N64-13711 05-01

LUNAR SURFACE CONSIDERATIONS WITH RESPECT TO LOCATION OF LUNAR BASE N64-13712 05-29

BIOLOGICAL REGENERATION SYSTEM AS COMPONENT OF LIFE SUPPORT SYSTEM FOR LUNAR BASE
N64-13714 04-16

ENVIRONMENTAL CONTROL DEVELOPMENT & LUNAR BASE LIFE SUPPORT SYSTEM MODULES N64-13716 05-16

LUNAR EXPLORATION BASE FOR APOLLO PROJECT
NASA-CR-39 N64-15969 07-29

LUNAR EXPLORATION SYSTEMS FOR APOLLO
NASA-CR-35 N64-17721 09-29

MULTIPURPOSE ENGINE AND FUEL SYSTEM FOR MANNED LUNAR BASES - ENERGY CONVERSION SYSTEMS
WANL-PR/S/002-B N64-31150 22-10

LUNAR COMPOSITION
PROCESSES FOR UTILIZATION OF LUNAR RESOURCES - REDUCTION OF SILICATES TO PRODUCE OXYGEN
NASA-CR-52318 N64-10179 01-29

LABORATORY APPARATUS TO STUDY CATALYTIC REDUCTION OF CARBON MONOXIDE WITH HYDROGEN - UTILIZATION OF LUNAR RAW MATERIALS TO PRODUCE OXYGEN
NASA-CR-58956 N64-33172 24-10

LUNAR CRATER
MAPS & DATA FOR DISCERNIBLE CRATERS IN FIRST LUNAR QUADRANT - LUNAR SURFACE STUDY
NASA-CR-52401 N64-10374 01-29

INFRARED MAPPING OF LUNAR CRATERS DURING FULL MOON & DURING TOTAL ECLIPSE
D1-82-0176 N64-12018 03-28

TELESCOPIC AND PHOTOGRAPHIC DESCRIPTION OF LUNAR MARIA AND HIGHLAND CRATERS
NASA-CR-55172 N64-13334 04-29

PERCEPTION OF SIZE AND INTERSECTION FREQUENCY OF LUNAR CRATER IN HIGHLAND REGION
NASA-CR-55274 N64-13928 05-29

SELENOGRAPHIC COORDINATES OF LUNAR CRATERS
NASA-CR-55295 N64-14276 06-29

SELENOGRAPHIC COORDINATES OF CRATERS VIEWED ON LUNAR SURFACE
NASA-CR-55297 N64-14281 06-29

CATALOG OF LUNAR CRATERS WITH SELENOGRAPHIC COORDINATES AND CRATER DIMENSIONS
NASA-CR-55296 N64-14282 06-29

SELENOGRAPHIC COORDINATES OF CRATERS OBSERVED ON SELECTED PORTION OF MOON SURFACE
NASA-CR-55547 N64-15538 07-05

SELENOGRAPHIC COORDINATES, DIAMETER, AND SHAPE OF CRATERS OBSERVED ON SELECTED PORTION OF LUNAR SURFACE
NASA-CR-55536 N64-15900 07-05

SOURCE OF GAS EVOLUTION FROM LUNAR CRATER ALPHONSUS N64-20898 14-29

PHOTOMETRIC PROPERTIES OF LUNAR CRATER FLOORS
NASA-TT-F-209 N64-28023 20-05

CATALOG OF LUNAR CRATERS FROM PHOTOGRAPHIC LUNAR ATLAS
NASA-CR-58785 N64-30516 22-05

LUNAR CRUST
PHOTOGRAPHIC STUDY OF MOON STRUCTURAL ELEMENTS - LUNAR CRUST N64-22036 15-29

INSTRUMENTATION PROBLEMS ASSOCIATED WITH ANALYSIS OF LUNAR CRUST AND ATMOSPHERE BY MASS SPECTROMETRY
NASA-CR-56545 N64-23528 16-29

LUNAR SURFACE STRUCTURE N64-30730 22-29

LUNAR EFFECT
LUNAR DIURNAL VARIATION OF COSMIC RAYS N64-24447 17-28

LUNAR INFLUENCE ON ATMOSPHERIC AND GEOPHYSICAL PHENOMENA - BIBLIOGRAPHY N64-26023 18-12

LUNAR EXCURSION MODULE /LEM/
PREDICTION OF VACUUM LEVELS FOR UNPRESSURIZED COMPARTMENTS DURING LUNAR EXCURSION MODULE MISSION
RM-178L N64-24913 17-11

POWERED-DESCENT TRAJECTORY FOR LUNAR LANDING MISSION OF LUNAR EXCURSION MODULE
NASA-TN-D-2426 N64-27943 20-29

LUNAR EXPLORATION
CF SPACE EXPLORATION
IMPACT OF SPACE TECHNOLOGY - PLANS FOR LUNAR EXPLORATION AND SPACE RESEARCH N64-10348 01-01

EXPERIMENTS FOR UNMANNED SCIENTIFIC EXPLORATION OF THE MOON N64-10860 02-29

LUNAR & PLANETARY EXPLORATION N64-13701 05-01

APOLLO PROJECT LUNAR EXPLORATION COMMUNICATIONS AND TRACKING N64-16176 08-08

LUNAR EXPLORATION SYSTEMS FOR APOLLO
NASA-CR-35 N64-17721 09-29

HISTORY OF ATTEMPTS AT LUNAR EXPLORATION AND POSSIBILITY OF SOFT LANDING ON MOON
JPRS-24009 N64-18319 10-29

MANNED LUNAR SCIENTIFIC EXPLORATION
NASA-TM-X-51676 N64-20665 13-30

LUNAR OPTICAL RANGING EXPERIMENT USING LASERS
AFCRL-63-908 N64-21669 15-08

NONLIVING ASTRONAUT FOR EXPLORATION OF MOON AND PLANETS N64-23645 16-30

LASER OPTICS METHOD FOR LUNAR OBSERVATION
FTD-TT-64-336/1 N64-26933 18-05

CONFERENCE ON LUNAR EXPLORATION N64-28405 20-29

LUNAR FAR SIDE
PHOTOGRAPH OF LUNAR FAR SIDE AND TRANSMISSION OF PICTURES TO EARTH
FTD-TT-63-962/1&2 N64-23430 16-29

CHARACTERISTICS OF PRINCIPAL STRUCTURAL ELEMENTS OF VISIBLE AND FAR SIDES OF MOON
NASA-TT-F-8835 N64-31449 23-29

LUNAR FLIGHT
BENEFITS OF ELECTRIC PROPULSION SYSTEMS FOR LUNAR AND INTERPLANETARY FLIGHT
NASA-RP-42 N64-10287 01-27

ADVANTAGES OF PARKING ORBIT FOR ACCOMPLISHING LUNAR MISSION
FTD-TT-63-699/1 N64-11169 02-29

PROPULSION REQUIREMENTS FOR SOFT LANDING IN EXTRATERRESTRIAL ENVIRONMENTS - ANALYSIS OF LUNAR AND EARTH-MERCURY MISSIONS
NASA-CR-55088 N64-13375 04-29

LUNAR MISSION PERFORMANCE EVALUATION PROCEDURE FOR ORBIT-LAUNCHED VEHICLES WITH NUCLEAR PROPULSION SYSTEM
NASA-TN-D-2157 N64-18955 11-30

LUNAR MISSION - FUNCTION AND PERFORMANCE OF RANGER LANDING SYSTEM ALTIMETER
U-2252, VOL. 2 N64-22227 15-15

TWO-BODY MIDCOURSE NAVIGATION AND GUIDANCE FOR LUNAR MISSIONS
AIAA PAPER-64-649 N64-27674 19-22

EFFECTS OF EFFICIENCY SENSITIVE PARAMETERS ON LUNAR FLIGHT MECHANICS
REPT.-00.237 N64-33426 24-29

LUNAR GEOLOGY
CF SELENOGRAPHY
POSSIBLE ORIGIN OF THE LUNAR WALLED PLAIN PTOLEMAEUS N64-12404 03-29

HELIOMETRIC OBSERVATIONS OF COORDINATES OF LUNAR CENTER OF MASS
MH-TRANS-430 N64-14546 06-05

NUCLEAR EXPLOSIVES FOR DEHYDRATION OF LUNAR WATER-

BEARING DEPOSITS
UCRL-7515 N64-16547 08-29

REDUCTION OF LUNAR NATURAL SILICATES FOR OXYGEN PRODUCTION
NASA-CR-53749 N64-19174 11-07

LUNAR ROTATION AND EFFECT ON RHEOLOGY OF LUNAR SUBSTANCE N64-19329 12-05

RADIATIVE TRANSPORT OF HEAT IN LUNAR AND PLANETARY INTERIORS AND SURFACES
D1-82-0328 N64-23216 16-29

INTERIOR OF MOON
NASA-CR-56510 N64-23526 16-29

LUNAR GEOLOGY AND ASTRONOMY, AND ASTRONOMICAL OBSERVATIONS POSSIBLE FROM FUTURE LUNAR OBSERVATORY
JPRS-26460 N64-30455 22-05

LUNAR SURFACE STRUCTURE N64-30730 22-29

THEORY OF TEKTITE ORIGIN ON MOON AS IMPACT FRAGMENTS
NASA-RP-335 N64-31213 22-12

UTILIZATION OF LUNAR RESOURCES - REDUCTION OF IGNEOUS ROCK OR SILICATE MATERIALS WITH METHANE, CARBON, AND HYDROGEN
NASA-CR-59167 N64-33679 24-07

LUNAR LANDING
SA SOFT LANDING
REVIEW OF LUNAR LANDING MISSIONS - EARTH ORBIT-, LUNAR ORBIT-, AND LIBRATION POINT RENDEZVOUS
R63SD52 N64-11203 02-29

ANALYSIS OF LUNAR LANDING TRAJECTORIES WITH REFERENCE TO LUNAR ORBIT RENDEZVOUS MODE & ABORT SITUATIONS
NASA-TN-D-2016 N64-11551 03-29

TOUCHDOWN DYNAMICS ANALYSIS OF SPACECRAFT FOR SOFT LUNAR LANDING
NASA-TN-D-2001 N64-12876 04-29

TOUCHDOWN DYNAMICS STUDY FOR LUNAR LANDING PHASE OF SURVEYOR PROJECT
NASA-CR-52080 N64-13014 04-29

OPTIMUM THRUST PROGRAMMING FOR LUNAR SOFT LANDING
SSD-TDR-63-309 N64-14781 06-29

HIGH RESOLUTION SYSTEM FOR LUNAR AND PLANETARY LANDING SITE SELECTION N64-16185 08-08

LUNAR LANDING SYSTEM DEVELOPED AS PART OF RANGER PROJECT FOR EXTENDED SEISMOMETER EXPERIMENT
NASA-CR-53814 N64-19316 12-32

ABORT TRAJECTORY FOR LUNAR LANDING
NASA-TN-D-2338 N64-22573 15-29

TECHNIQUE FOR THRUST-VECTOR ORIENTATION DURING MANUAL CONTROL OF LUNAR LANDINGS FROM SYNCHRONOUS ORBIT
NASA-TN-D-2298 N64-23234 16-31

DIRECT HIT ON LUNAR SURFACE FROM EARTH N64-23642 16-29

APPLICATION OF PERTURBATION THEORY TO LUNAR LANDING AND LONG RANGE REENTRY GUIDANCE
NASA-RP-209 N64-24963 17-22

GUIDANCE AND CONTROL SCHEMES FOR MANNED LUNAR LANDING
NASA-CR-58073 N64-27392 19-23

MIDCOURSE GUIDANCE EQUATIONS FOR SURVEYOR PROJECT LUNAR SOFT LANDING SPACECRAFT
AIAA PAPER-64-654 N64-27755 19-22

POWERED-DESCENT TRAJECTORY FOR LUNAR LANDING MISSION OF LUNAR EXCURSION MODULE
NASA-TN-D-2426 N64-27943 20-29

INSTRUMENTATION FOR LUNAR SOFT LANDING N64-28407 20-29

MOTION EQUATIONS FOR MANNED LUNAR LANDING TRAJECTORIES
NASA-CR-58630 N64-28853 20-29

EXTRATERRESTRIAL ENVIRONMENTS, VEHICLE SYSTEMS FOR INTERPLANETARY FLIGHT, LANDING PROPULSION SYSTEMS, LUNAR LANDING IMPACT DEVICES, AND PROPELLANT STORAGE
NASA-CR-58035 N64-29187 21-29

CREW PERFORMANCE DURING REAL TIME LUNAR LANDING MISSION SIMULATION
NASA-TN-D-2447 N64-29206 21-14

LUNAR LANDING SITE SELECTION AND VEHICLE GUIDANCE BY EARTH BASED CONTROL N64-29353 21-06

LUNAR LANDING SYSTEMS
MM-64-4 N64-29626 21-06

PARAMETRIC STUDY OF LUNAR LANDING SYSTEMS N64-29627 21-06

LANDING GEAR SYSTEMS FOR WIDELY DIFFERENT DESIGN SPECIFICATION LIMITS OF LUNAR LANDING SYSTEM N64-29628 21-06

DIGITAL COMPUTER PROGRAM FOR PREDICTING LUNAR LANDING PHENOMENA N64-29629 21-10

UNSYMMETRICAL LANDING GEAR SYSTEM FOR LUNAR LANDING VEHICLE N64-29630 21-06

STABILITY OF TWO-DIMENSIONAL TOUCHDOWN LANDING OF LUNAR VEHICLE N64-29631 21-10

EXPERIMENTAL TEST WITH DYNAMICALLY SCALED DROP TEST MODEL OF LUNAR LANDING VEHICLE N64-29632 21-10

COMPARISON OF EXPERIMENTAL AND THEORETICAL STUDIES OF LUNAR LANDING SYSTEMS N64-29633 21-10

NONPLANAR LANDINGS AND RELATION TO LUNAR LANDINGS SYSTEMS DESIGN N64-29634 21-10

SPACE AND LUNAR LANDING SIMULATION N64-30723 22-10

PRELIMINARY DESIGN OF FREE FLIGHT LUNAR LANDING RESEARCH VEHICLE
NASA-CR-59328 N64-33770 24-32

TOUCHDOWN STABILITY TESTS FOR LUNAR LANDING VEHICLES - SYMMETRICAL & ASYMMETRICAL INELASTIC IMPACTS
NASA-RP-350 N64-33891 24-33

LUNAR LANDING MODULE
LUNAR LANDING CHARACTERISTICS OF SCALE DYNAMIC MODEL OF LANDING MODULE WITH MULTIPLE LEG LANDING GEAR SYSTEMS
NASA-TN-D-2027 N64-14981 06-29

LUNAR LOGISTICS
LUNAR LOGISTIC SCIENTIFIC FACILITY FOR APOLLO PROJECT MISSIONS N64-19136 04-29

REUSABLE BOOSTER FOR LUNAR LOGISTICS AND PLANETARY EXPLORATION
DOUGLAS PAPER-1887 N64-28806 20-31

NAVIGATION SYSTEM BASED ON CELESTIAL BODY TRACKER FOR LUNAR MOBILE LABORATORY /MOLAB/ OF APOLLO LOGISTICS SUPPORT SYSTEMS
NASA-CR-61013 N64-31717 23-32

APOLLO LOGISTICS SUPPORT SYSTEMS MOBILE LABORATORY STUDIES - GROUND WAVE PROPAGATION ON LUNAR SURFACE
NASA-CR-61014 N64-31718 23-08

PERFORMANCE PREDICTION OF ELECTRICALLY PROPELLED LUNAR LOGISTICS VEHICLE
NASA-CR-58972 N64-32909 24-32

PERFORMANCE PREDICTION FOR LUNAR LOGISTIC VEHICLE

WITH NUCLEAR-ELECTRIC PROPULSION
AIAA PAPER-64-497 N64-33638 24-32

LUNAR PROPELLANT MANUFACTURE AND REFUELING
REPT.-64SD237 N64-33866 24-10

APOLLO LOGISTICS SUPPORT SYSTEM - TELEMETRY EQUIPMENT AND TECHNIQUES FOR LUNAR MOBILE LABORATORY
NASA-CR-61018 N64-33867 24-08

APOLLO PROJECT LUNAR LOGISTICS MOBILE LABORATORY
NASA-CR-61016 N64-33876 24-10

LUNAR MOBILE LABORATORY /MOLAB/
APOLLO LOGISTICS SUPPORT SYSTEM - TELEMETRY EQUIPMENT AND TECHNIQUES FOR LUNAR MOBILE LABORATORY
NASA-CR-61018 N64-33867 24-08

APOLLO LOGISTICS SUPPORT SYSTEM - MOLAB STUDIES - COMPARISON BETWEEN OPTIMUM ANTENNA GAIN AND TRANSMITTER POWER FOR LOW MASS SYSTEM
NASA-CR-61010 N64-33880 24-08

LUNAR ORBIT
TRAJECTORY CALCULATION, REENTRY CONDITIONS, LANDING SITE, AND INJECTION CONDITIONS FOR RETURN-TO-EARTH FROM LUNAR ORBIT
NASA-TM-X-51082 N64-10103 01-22

ORBIT DETERMINATION ERROR FOR VEHICLES IN NEAR CIRCULAR LUNAR ORBITS N64-18086 10-29

CHARACTERISTICS OF MOON - SIZE & MASS, ORBIT, PHASES, ATMOSPHERE, AND SURFACE COMPOSITION N64-24490 17-05

LINEAR EQUATION FOR ALTITUDE ERROR IN LUNAR TRANSFER ORBIT CALCULATION
NASA-TN-D-1837 N64-32401 23-29

OPTIMUM LIGHTING AND VIEWING CONDITIONS FOR OBSERVATION AND LUNAR PHOTOGRAPHY FROM LUNAR ORBIT
NASA-CR-59192 N64-33162 24-29

LUNAR ORBITAL RENDEZVOUS /LOR/
MAMMOTH ROCKET LAUNCHING DEVICE OR LUNAR ORBITAL RENDEZVOUS - PROBLEM OF GETTING LUNAR VEHICLE TO MOON
JPRS-17524 N64-10478 01-31

ANALYSIS OF LUNAR LANDING TRAJECTORIES WITH REFERENCE TO LUNAR ORBIT RENDEZVOUS MODE & ABORT SITUATIONS
NASA-TN-D-2016 N64-11551 03-29

LUNAR PHASE
CHARACTERISTICS OF MOON - SIZE & MASS, ORBIT, PHASES, ATMOSPHERE, AND SURFACE COMPOSITION N64-24490 17-05

MOON EFFECT ON TERRESTRIAL METEOR RATES N64-33056 24-05

LUNAR PHOTOGRAPHY
PHOTOGRAPHING OF LUNAR SURFACE WITH INFRARED VIDICONS
JPRS-20223 N64-11222 02-05

TELESCOPIC AND PHOTOGRAPHIC DESCRIPTION OF LUNAR MARIA AND HIGHLAND CRATERS
NASA-CR-55172 N64-13334 04-29

RANGER VI PROBE LAUNCHING - LUNAR PHOTOGRAPHIC MISSION N64-13938 05-32

RANGER BLOCK III SPACE FLIGHT OPERATIONS PLAN - TELEVISION PICTURES OF LUNAR SURFACE
NASA-CR-53036 N64-14745 06-32

AUTOMATIC BALLOON-BORNE SELENODETIC PLATE CAMERA FOR HIGH RESOLUTION PHOTOGRAPHY OF MOON
AFCRL-64-201 N64-17652 09-15

OPTICS - 43-INCH PRIMARY MIRROR AND TELESCOPE TESTING FOR LUNAR AND PLANETARY PHOTOGRAPHY
AFCRL-63-949 N64-18648 11-15

ELECTRIC PROPERTIES OF LUNAR SURFACE - CORRELATION OF RADAR AND PHOTOGRAPHIC DATA
NASA-CR-53880 N64-19850 12-23

OLD AND NEW LUNAR PHOTOMETRIC MODELS ASSESSMENT
ADR-04-04-64.1 N64-21813 15-29

PHOTOGRAPHIC STUDY OF MOON STRUCTURAL ELEMENTS - LUNAR CRUST N64-22036 15-29

PHOTOGRAPH OF LUNAR FAR SIDE AND TRANSMISSION OF PICTURES TO EARTH
FTD-TT-63-962/1&2 N64-23430 16-29

PHOTOGRAPHIC DATA OF MOON PROFILE
TC-612 N64-25629 17-29

DISCUSSION OF PRELIMINARY RESULTS OF RANGER VII LUNAR PROBE N64-27666 19-29

CAMERAS FOR MANNED SPACE FLIGHT AND LUNAR PHOTOGRAPHY
NASA-TM-X-51878 N64-27802 19-15

RANGER VII LUNAR PROBE - FLIGHT CHRONOLOGY, LAUNCH VEHICLE, SPACECRAFT, AND PHOTOGRAPHY N64-28342 20-32

PHOTOGRAPHIC AND VISUAL OBSERVATIONS OF MOON AND PLANETS
NASA-CR-58617 N64-28997 20-29

PLANETARY AND LUNAR PHOTOGRAPHY IN INFRARED, VISIBLE, AND ULTRAVIOLET
FR-7 N64-29577 21-05

INFRARED PHOTOGRAPHY AND SPECTROSCOPIC AND VISUAL OBSERVATIONS OF PLANETS AND MOON
SAR-6 N64-31592 23-29

OPTIMUM LIGHTING AND VIEWING CONDITIONS FOR OBSERVATION AND LUNAR PHOTOGRAPHY FROM LUNAR ORBIT
NASA-CR-59192 N64-33162 24-29

LUNAR PROBE
SA LUNIK II LUNAR PROBE
SA PIONEER V SPACE PROBE
SA RANGER II LUNAR PROBE
SA RANGER III LUNAR PROBE
SA RANGER IV LUNAR PROBE
SA RANGER V LUNAR PROBE
SA RANGER VI LUNAR PROBE
SA RANGER VII LUNAR PROBE
PERIODIC ORBITS FOR MOON PROBES - STABILITY REQUIREMENT
NASA-RP-61 N64-10619 01-22

RANGER III LUNAR PROBE STUDY OF GAMMA RADIATION FROM LUNAR SURFACE N64-22436 15-28

LUNAR PROGRAM
MAMMOTH ROCKET LAUNCHING DEVICE OR LUNAR ORBITAL RENDEZVOUS - PROBLEM OF GETTING LUNAR VEHICLE TO MOON
JPRS-17524 N64-10478 01-31

LUNAR, PLANETARY-INTERPLANETARY PROGRAM, DEEP SPACE INSTRUMENTATION FACILITY, OPERATIONAL & TEST FACILITY, AND SPACE SCIENCES
NASA-CR-53009 N64-13263 04-32

LUNAR, PLANETARY, & INTERPLANETARY SPACE PROGRAMS
NASA-CR-53069 N64-15791 07-32

SPACE EXPLORATION PROGRESS IN LUNAR AND PLANETARY-INTERPLANETARY PROGRAMS, DEEP SPACE INSTRUMENTATION FACILITY /DSIF/, AND SPACE SCIENCE
NASA-CR-58546 N64-28972 20-32

LUNAR SPACECRAFT
PSYCHOLOGICAL EFFECTS OF RESTRICTED WORKSPACE AND WORK-REST CYCLE ON CREW FOR LUNAR MISSION
NASA-TN-D-2065 N64-14519 06-14

OPTICAL SENSORS FOR LUNAR AND PLANETARY SPACE VEHICLES N64-15477 07-15

COSTS OF ROUND-TRIP REUSABLE EARTH-LUNAR TRANSPORTATION SYSTEMS

NASA-TM-X-51436 N64-15869 07-30

EFFECT OF MOON TRIAXIAL POTENTIAL & ATTRACTION OF EARTH, SUN, AND PLANTETS ON STABILITY OF LUNAR SATELLITES
NASA-CR-55973 N64-17680 09-29

ORBIT CALCULATION FOR LUNAR SATELLITE FROM MINIMUM NUMBER OF RADAR RANGE, RADAR RANGE-RATE, AND OPTICAL OBSERVATIONS
NASA-CR-58450 N64-28994 20-29

EARTH-BASED GUIDANCE OF UNMANNED LUNAR AND INTERPLANETARY SPACECRAFT
JPL-TR-32-472 N64-32824 24-29

LUNAR SURFACE
CF SELENOGRAPHY
RADIAL STRUCTURES SURROUNDING LUNAR BASINS - IMBRIUM SYSTEM
NASA-CR-52400 N64-10373 01-29

MAPS & DATA FOR DISCERNIBLE CRATERS IN FIRST LUNAR QUADRANT - LUNAR SURFACE STUDY
NASA-CR-52401 N64-10374 01-29

SPUTTERING EFFECTS ON LUNAR SURFACE - METALLIC ENRICHMENT & ALBEDO
NASA-CR-52534 N64-10625 01-32

PHOTOGRAPHING OF LUNAR SURFACE WITH INFRARED VIDICONS
JPRS-20223 N64-11222 02-05

PHOTOMETRIC STUDIES OF COMPLEX SURFACES WITH APPLICATIONS TO LIGHT SCATTERING BY LUNAR SURFACE N64-11393 02-29

INTERPLANETARY DUST PARTICLE IMPACT ON LUNAR SURFACE
NASA-TN-D-2100 N64-11906 03-29

MINERALOGICAL SATELLITE - MAPPING OF MINERALOGY & TEMPERATURE OF LUNAR SURFACE BY REMOTE INFRARED SPECTRAL MEASUREMENTS
IAC PAPER-94 N64-12351 03-15

DUST NATURE OF LUNAR SURFACE, AND DETERMINATION OF FIGURE OF REGULARIZED GEOID THROUGH GRAVITY ANOMALIES
JPRS-20167 N64-12798 04-01

SLOPE ANGLES OF LOOSE MATERIALS AND HYPOTHESIS OF DUST-COVERED LUNAR SURFACE N64-12799 04-29

LUNAR ATMOSPHERIC MODELS - CONTRIBUTIONS FROM LUNAR SURFACE AND SOLAR WIND N64-13704 05-29

PHYSICAL PROPERTIES OF LUNAR SURFACE MATERIALS N64-13705 05-29

LUNAR SURFACE CONSIDERATIONS WITH RESPECT TO LOCATION OF LUNAR BASE N64-13712 05-29

SOLAR WIND BOMBARDMENT OF LUNAR SURFACE - SIMULATION WITH HYDROGEN ION BEAM N64-15175 07-28

RELATION BETWEEN ELECTROMAGNETIC SCATTERING PROPERTIES OF LUNAR SURFACE & SURFACE STRUCTURES
NASA-CR-55545 N64-15186 07-08

SELENOGRAPHIC COORDINATES OF CRATERS OBSERVED ON SELECTED PORTION OF MOON SURFACE
NASA-CR-55547 N64-15538 07-05

HYDROGEN ION BOMBARDMENT OF BASALT POWDERS IN INVESTIGATING EFFECT OF SOLAR WIND ON LUNAR SURFACE
NASA-CR-55720 N64-15891 07-29

PROPAGATION AND ATTENUATION OF ACOUSTIC WAVES IN LUNAR SURFACE
NASA-CR-55413 N64-15896 07-29

LUNAR LIBRATION CONSTANTS, LUNAR SURFACE, AND LUNAR SHAPE DETERMINATIONS
ASR-2 N64-16076 07-05

LOCATION AND MAINTENANCE OF ANTENNAS ON LUNAR SURFACE FOR DIRECT COMMUNICATION WITH EARTH N64-16179 08-09

MECHANISM OF RADAR OBSERVATION OF LUNAR SURFACE
AFCRL-64-74 N64-17505 09-08

RADIO AND RADAR STUDIES OF LUNAR AND PLANETARY IONOSPHERES, ATMOSPHERES, AND SURFACES
NASA-CR-53205 N64-17592 09-05

CALCULATION OF LUNAR SURFACE AREA FROM MOON PHOTOGRAPHS USING COMPUTER PROGRAMS
NASA-CR-53588 N64-18434 10-05

EVALUATION OF PHOTOMETRIC DATA FOR DETERMINING ACCURACY OF LUNAR SURFACE BRIGHTNESS PREDICTION
NASA-CR-53576 N64-18439 10-29

METEOR IMPACTS AND EXPLOSIONS AS FACTOR IN FORMATION OF LUNAR SURFACE N64-19452 12-05

RADAR SCATTER FROM LUNAR AND TERRESTRIAL SURFACES COMPARED WITH THEORETICAL CALCULATION N64-19586 12-05

INTERPRETATION OF RESULTS FROM PROPOSED SURVEYOR SATELLITE ALPHA-SCATTERING EXPERIMENT - LUNAR SURFACE COMPOSITION DETERMINATION
NASA-CR-53876 N64-19790 12-05

ELECTRIC PROPERTIES OF LUNAR SURFACE - CORRELATION OF RADAR AND PHOTOGRAPHIC DATA
NASA-CR-53860 N64-19850 12-23

PHOTOMETRIC FUNCTIONS & PROPERTIES OF LUNAR SURFACE N64-22063 15-29

RANGER III LUNAR PROBE STUDY OF GAMMA RADIATION FROM LUNAR SURFACE N64-22436 15-28

TELEVISION PICTURES OF LUNAR SURFACE TAKEN DURING BLOCK III RANGER FLIGHTS
NASA-CR-56289 N64-22461 15-32

SPECTROPHOTOMETRY OF LUNAR SURFACE
FTD-TT-63-10/1 N64-22643 15-29

SPUTTERING EFFECTS ON LUNAR SURFACE
NASA-CR-56292 N64-24023 16-29

ELECTROMAGNETIC SCATTERING AND RADIATIVE PROPERTIES OF LUNAR-LIKE SURFACE
NASA-CR-56539 N64-24035 16-23

ANNOTATED BIBLIOGRAPHY OF LUNAR SURFACE STUDIES
NASA-SP-7003 N64-24244 17-29

TEMPERATURE MEASUREMENT AND REFLECTION COEFFICIENT OF LUNAR SURFACE
FTD-TT-62-1514/1&2 N64-24260 17-29

LUNAR SURFACE TEMPERATURE DETERMINATION N64-24261 17-29

REFLECTION COEFFICIENTS AND ALBEDO OF LUNAR SURFACE N64-24262 17-29

CHARACTERISTICS OF MOON - SIZE & MASS, ORBIT, PHASES, ATMOSPHERE, AND SURFACE COMPOSITION N64-24490 17-05

LUNAR SURFACE AND ROLE OF FUSION AND IMPACTS IN FORMATION OF MOON - SOLAR SYSTEM DEVELOPMENT N64-24770 17-29

LUNAR RADIO EMISSION - PHYSICAL STATE AND NATURE OF LUNAR SURFACE
NASA-TT-F-172 N64-24832 17-05

FLUORESCENT X-RADIATION FROM LUNAR SURFACE AND DETECTION OF OTHER X-RAY SOURCES IN NIGHT SKY
ASE-426 N64-25043 17-28

JET EXHAUST FLOW FIELDS AND IMPINGEMENT ON SIMULATED LUNAR SURFACE
NASA-RP-242 N64-26404 18-29

APPLICATION OF PENETROMETERS TO STUDY OF PHYSICAL

PROPERTIES OF LUNAR AND PLANETARY SURFACES
NASA-TN-D-2413 N64-27120 19-15

SELECTION OF MASS SPECTROSCOPIC SYSTEM FOR ANALYSIS OF LUNAR SURFACE AND ATMOSPHERE
NASA-CR-56552 N64-27304 19-29

UNMANNED VEHICLE SOFT-LANDING MISSION ON LUNAR SURFACE WITH VARIOUS PAYLOADS
AIAA PAPER-64-644 N64-27644 19-32

LUNAR RADAR AND BACKSCATTERING MEASUREMENTS FROM LUNAR-LIKE SURFACES
NASA-CR-50859 N64-27806 19-08

RADIOACTIVE DATING OF LUNAR SURFACE BY RARE GAS ISOTOPE CONCENTRATION MEASUREMENTS
NASA-CR-56792 N64-27884 20-07

LUNAR SURFACE TOPOGRAPHY N64-28406 20-29

SUMMARY OF MISSION OF RANGER VII LUNAR PROBE AND NATURE OF LUNAR SURFACE N64-29388 21-32

CATALOG OF LUNAR CRATERS FROM PHOTOGRAPHIC LUNAR ATLAS
NASA-CR-58785 N64-30516 22-05

SURFACE TEMPERATURE OF LUNAR SEAS AND CONTINENTS BY RADIATION FLOW VALUES IN TWO SPECTRAL REGIONS
JPRS-26521 N64-30575 22-28

LUNAR SURFACE TEMPERATURE DUE TO REFLECTION OF COSMIC RADIO EMISSION
NASA-TT-F-8964 N64-30857 22-28

APOLLO LOGISTICS SUPPORT SYSTEMS MOBILE LABORATORY STUDIES - GROUND WAVE PROPAGATION ON LUNAR SURFACE
NASA-CR-61014 N64-31718 23-08

RANGER VII LUNAR PHOTOGRAPHS, CAMERA A SERIES - LUNAR SURFACE CLOSEUP PICTURES
NASA-SP-61 N64-31723 23-29

SHAPE AND INTERNAL STRUCTURE OF MOON - LUNAR PARAMETERS AND DENSITY DISTRIBUTION - RIGID AND THERMAL CONVECTION MODELS
RM-3964-PR N64-31972 23-29

FEASIBILITY OF STORAGE OF SMALL QUANTITY OF CRYOGENIC FLUID ON LUNAR SURFACE
NASA-TM-X-51918 N64-32886 24-10

CONVERSION FROM VISUAL BRIGHTNESS SCALE TO PHOTOMETRIC DATA FOR LUNAR FORMATIONS
RSIC-273 N64-33422 24-05

IONIZATION DETECTORS IN GAS CHROMATOGRAPHY SYSTEMS ANALYZING CHEMICAL COMPONENTS OF LUNAR SURFACE
NASA-CR-59301 N64-33683 24-11

RADIO AND RADAR STUDIES OF LUNAR AND PLANETARY IONOSPHERES, ATMOSPHERES, AND SURFACES, AND RADAR STUDIES OF SUN AND INTERPLANETARY MEDIUM
NASA-CR-59325 N64-33686 24-28

ULTRAHIGH VACUUM ADHESION OF SILICATES AS RELATED TO LUNAR SURFACE
NASA-CR-59364 N64-33812 24-17

LUNAR SURFACE VEHICLE
PAYLOAD DESIGN FOR APOLLO PROJECT LUNAR SURFACE VEHICLE N64-16175 08-10

RADIATION SHIELDS FOR THERMAL CONTROL OF VEHICLES ON LUNAR SURFACE
NASA-TN-D-2130 N64-17723 09-13

EXPANDABLE LUNAR SHELTER CONCEPTS N64-23712 16-31

LUNAR TRAJECTORY
SA EARTH MOON TRAJECTORY
FACTORS AFFECTING ACCURACY OF POSITION FIX FOR LUNAR TRAJECTORIES
NASA-TN-D-2178 N64-14394 06-29

MONTE CARLO COMPUTATION OF STATISTICS OF MIDCOURSE VELOCITY CORRECTIONS FOR LUNAR MISSION
NASA-TN-D-2296 N64-20191 13-29

SENSOR REQUIREMENTS FOR MIDCOURSE GUIDANCE OF SPACECRAFT ON LUNAR TRAJECTORIES
AIAA PAPER-64-234 N64-22104 15-22

ADVANCED MISSION ANALYSIS STUDY OF LUNAR TRAJECTORIES, GUIDANCE SYSTEMS, AND ORBIT DETERMINATION
NASA-CR-50435 N64-33134 24-29

LUNG
SA ALVEOLAR AIR
SMALL & LARGE SIZE RADIOALBUMIN AGGREGATES FOR PHOTOSCANNING LIVER, SPLEEN, LUNGS, & OTHER ORGANS
UCLA-519 N64-13004 04-16

PROPERTIES AND STRUCTURE OF PURIFIED MAMMALIAN ADENOSINE DEAMINASE ISOLATED FROM CALF INTESTINE AND CAT LUNG
AD-429070 N64-14832 06-16

ABDOMINAL & THORACIC PRESSURES AT DIFFERENT LUNG VOLUMES N64-17927 10-16

LUNG MECHANICS & VENOUS ADMIXTURE IN NEGATIVE PRESSURE BREATHING N64-17931 10-16

VENTILATION-PERFUSION RELATIONSHIP IN GAS EXCHANGE OF LUNGS N64-17939 10-16

GAS EXCHANGE IN LUNGS OF MAN N64-17941 10-16

TOPOGRAPHICAL DISTRIBUTION OF PERFUSION AND VENTILATION OF BLOOD IN LUNGS N64-17942 10-16

DETERMINATION OF PERFUSION & PERFUSION-VENTILATION RATIO OF LUNG N64-17944 10-16

PERFUSION OF LUNGS OF HUMAN WITH ASTHMA N64-17945 10-16

DISTRIBUTION OF LUNG DIFFUSING CAPACITY IN ANESTHETIZED DOG - BLOOD FLOW N64-17946 10-16

NITROGEN GAS IN BIOLOGICAL PROCESSES OF THE LUNG N64-17952 10-16

TRACHEA OCCLUSION IN RATS BREATHING OXYGEN AND EFFECT OF BAROMETRIC PRESSURE ON LUNG MORPHOLOGY N64-17954 10-16

PULMONARY GAS EXCHANGE AND LUNG FUNCTION IN MAN DURING POSITIVE ACCELERATION IN SITTING POSITION
FPRC-1212 N64-22218 15-16

PRECORDIAL VIBRATION IN CARDIOVASCULAR SYSTEM TRANSFER OF HEART CONTRACTILE ENERGY THROUGH LUNG-THORAX SYSTEM N64-22412 15

LUNIK II LUNAR PROBE
LUNIK II MEASUREMENTS OF NUCLEAR COMPONENT OF PRIMARY COSMIC RAYS WITH CERENKOV COUNTER N64-11403 02-28

LUXEMBOURG EXPERIMENT
SA LANGMUIR PROBE

LYMAN ALPHA RADIATION
LIGHT PRESSURE RESULTING FROM LYMAN ALPHA RADIATION IN PLANETARY NEBULA AND DYNAMICS OF PLANETARY NEBULAE N64-19335 12-05

HYDROGEN CELL AND ION CHAMBER FOR OBTAINING PHOTOELECTRIC DATA ON RESONANCE SCATTERING AT LYMAN ALPHA LINE
NASA-TN-D-2148 N64-22018 15-23

MOLECULAR OXYGEN DENSITY AND LYMAN ALPHA ABSORPTION IN UPPER ATMOSPHERE N64-28637 20-12

LYMAN ALPHA RESONANT SCATTERING IN UNIFORM HYDROGEN GAS USING STOKES VECTORS AS RANDOM VARIABLES IN MONTE CARLO TYPE CALCULATION

NASA-TM-X-55062 N64-28742 20-23

SOLAR FLARES IN LIGHT OF HYDROGEN LYMAN ALPHA RADIATION MONITORED BY ORBITING SOLAR OBSERVATORY /OSO/ N64-30258 22-28

LYMPH
SPLEEN, LYMPH NODES, AND LOOSE CONNECTING TISSUE REACTIONS TO ANTIGENIC STIMULI IN IRRADIATED ANIMALS N64-30244 22-16

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ADVANCED VISION ANALYSIS STUDY OF LUNAR ..... NASA

LUNA

IN SEARCH OF ATE

PROPERTIES AND STRUCTURE OF PURIFIED BOVINE ...

ACTIVATION, A THERAPY SYSTEMATE AT DIFFERENT LUNA ...

LUNAR ENVIRONMENT

LUNAR ALPHA RADIATION

LUNAR SURFACE TEMPERATURE

LUNAR TRAJECTORY

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ANNUAL INDEX JANUARY–DECEMBER 1964

SECTION II

SUBJECT (M–Z)

DOCUMENTS
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VOLUME 2 ● NUMBERS 1–24

N64-10001 — N64-34021

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VOLUME 2 NUMBERS 1-24

Scientific and Technical Aerospace Reports

Annual Index (Section II) January–December 1964

TABLE OF CONTENTS

SECTION I
Subject Index (A–L)

SECTION II
Subject Index (M–Z)

SECTION III
Corporate Source Index
Report/Accession Number Index
Accession/Report Number Index

SECTION IV
Personal Author Index

Introduction

What STAR Cumulative Indexes Are

This publication contains cumulations of the indexes to *Scientific and Technical Aerospace Reports (STAR)* for the calendar year 1964 (Volume 2, Numbers 1 through 24). These are: Subject Index, Corporate Source Index, Personal Author Index, Report/Accession Number Index, and Accession/Report Number Index. The accession number is the identification given by NASA to each item indexed in the year indicated (e.g., N64-12345). In each index it is followed by a number (e.g., 13-20) for locating the abstract in the semimonthly issues of *STAR*; the first two digits of this number identify the issue of *STAR*, and the last two the particular subject category in which the abstract appeared.

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This cumulative index for *STAR*, Volume 2, Numbers 1–24, supersedes the previous semimonthly, quarterly, and semiannual indexes for the volume year.

How The Subject Index Was Prepared

Each item announced in the abstract sections of *STAR* was indexed by a number of subject terms. In the individual Subject, Corporate Source, and Personal Author listings the item was represented by a "notation of content" rather than by its original title, since an author's title may not be sufficiently detailed or informative, or not written in the vocabulary of the terms used for indexing. The same general plan is followed in this cumulation of the semimonthly indexes.

Three main objectives guided the design of this Annual Index: (1) ease of use; (2) efficient retrieval, both from specific and general approaches; and (3) control of the number of subject terms and the number of entries under each term within practical limits. These objectives, and consideration of the different types of searches for which this index may be used, have led to the dropping of some subject terms originally used in the semimonthly indexes. Items originally indexed under lightly posted specific terms have been transferred to more general terms, provided this did not result in an unwieldy total number of postings under any one term. As a rule, the specific terms dropped were composite, two-word terms, which were transferred to more general terms with which they shared a "concept word" (e.g., ABSORPTION SPECTRUM to SPECTRUM). Composite terms containing proper names, or names of systems (e.g., SATURN I LAUNCH VEHICLE), were retained, regardless of the number of their postings.

The subject terms in this cumulative index are arranged alphabetically, and supplemented with cross-references which constitute directions to the user that will enable him to modify, enlarge, or narrow his search in accordance with his specific interests. Three types of cross references are used:

1. "See" ("S") is used to relate broad concepts, too general to be useful index terms, to the specific terms used in the Index. For example:

   ATTENUATION
   S ACOUSTIC ATTENUATION
   S MICROWAVE ATTENUATION
   S RADIO ATTENUATION

   "S" is also used to indicate which of a pair of synonyms has been used in this Index. For example:

   COLUMBIUM
   S NIOBIUM

2. "See also" ("SA") directs a searcher from a general to a specific term for postings under the specific term that are not repeated under the general heading. For example:

   HEATING
   SA AERODYNAMIC HEATING

   tells a searcher that postings under AERODYNAMIC HEATING are different from those under HEATING. "SA" thus directs the user to separate, unduplicated listings that he should explore.

3. "Confer" ("CF") is used to relate associated concepts usually having different groups of postings. For example:

   PLASMA
   CF MAGNETOHYDRODYNAMICS

   tells a searcher that, while these terms are related in subject matter, postings under each term are different.

Finally, a searcher should use the notations of content in the Index to narrow further his quest for particular items. This is because subject terms can readily include more than one class of document. For example:

CATHODE
ELECTRON TUBE MATERIALS AND THERMIONIC EMISSION PROCESSES

SPACE CHARGE & IONIZATION REGIONS NEAR ARC CATHODE

specify two documents under one term that cover sharply different topics.

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SUBJECT INDEX

Listing of Reports by Subject

A Notation of Content, *rather than the title of the document*, appears under each subject heading; it is listed under several subject headings to provide multiple access to the subject content. The NASA accession number is located under and to the right of the Notation of Contents (e.g., N64-12345), followed by a four digit number (e.g., 13-02) for locating the abstract in the first section. The first two digits identify the issue of *Scientific and Technical Aerospace Reports*, and the two digits following the hyphen identify the category as listed in the Table of Contents.

M

MA-2 ROCKET ENGINE
PERFORMANCE DATA FOR INDIVIDUAL ATLAS MA-2 AND MA-5 ENGINES
R-5108-1 N64-31199 22-27

PERFORMANCE DATA FOR ATLAS MA-2 AND MA-5 BOOSTER SUSTAINERS, AND VERNIER ROCKET ENGINES TO OPTIMIZE VEHICLE TRAJECTORIES
R-5108-3 N64-31291 22-27

MA-3 ROCKET ENGINE
DESIGN INFORMATION AND PERFORMANCE DATA FOR ATLAS MA-3 PROPULSION SYSTEM
R-1338-4 N64-22330 15-27

MA-5 ROCKET ENGINE
CF ATLAS ICBM
ACOUSTICALLY EXCITED PROPELLANT UTILIZATION VALVES REDESIGNED FOR COMPATIBILITY IN MA-5 PROPULSION SYSTEM
R-5585 N64-25716 17-26

PERFORMANCE DATA FOR INDIVIDUAL ATLAS MA-2 AND MA-5 ENGINES
R-5108-1 N64-31199 22-27

PERFORMANCE DATA FOR ATLAS MA-2 AND MA-5 BOOSTER SUSTAINERS, AND VERNIER ROCKET ENGINES TO OPTIMIZE VEHICLE TRAJECTORIES
R-5108-3 N64-31291 22-27

MACH NUMBER
IMPROVED STATIC PRESSURE SENSING PROBES FOR ALL MACH NUMBERS
LB-31575 N64-18359 10-15

STATIC PRESSURE SENSING PROBE FOR ALL MACH NUMBERS FOR AIRCRAFT OR MISSILES
LB-31589 N64-18621 11-15

AERODYNAMIC CALIBRATION DATA OF MACH NUMBER, FLOW DISTRIBUTION, AND NOZZLE PRESSURE OF 16-FOOT PROPULSION SUPERSONIC WIND TUNNEL
AEDC-TDR-64-76 N64-18646 11-10

REYNOLDS NUMBER AND MACH NUMBER EFFECT ON TURBINE TANGENITAL FLOW
CORD-64-7032 N64-22230 15-27

EXPANDABLE DRAG DEVICES FOR MACH 10 REGIME
N64-23724 16-30

CALIBRATION OF CONE TO MEASURE MACH NUMBER, TOTAL PRESSURE, AND FLOW ANGLES AT SUPERSONIC SPEEDS
ARC-CP-628 N64-28070 20-02

HEAT TRANSFER MEASUREMENTS ON FLAT PLATE AND ATTACHED PROTUBERANCES IN TURBULENT BOUNDARY LAYER OVER RANGE OF MACH NUMBER, REYNOLDS NUMBER, AND ANGLE OF ATTACK
NASA-TN-D-2428 N64-29451 21-13

HEAT TRANSFER DISTRIBUTION ON SWEPT DELTA WINGS WITH SHARP OR BLAND NOSES AND CYCLINDRICAL LEADING EDGE AT MACH 9.86 UP TO 90-DEG ANGLE OF ATTACK
NASA-TN-D-2302 N64-31731 23-13

SHOCK WAVE RELATIONS IN TERMS OF MACH NUMBER OF INCIDENT SHOCK FRONT
PMMP-175 N64-33478 24-11

MACH-ZEHNDER INTERFEROMETER
MACH-ZEHNDER INTERFEROMETER OBSERVATION OF ELECTRON DENSITY RADIAL DISTRIBUTION
LAMS-3004 N64-13220 04-23

MACHINE
S GROUND EFFECT MACHINE
S MILLING MACHINE
S READING MACHINE
S SEQUENTIAL MACHINE
S TEACHING MACHINE
S TESTING MACHINE
S TURING MACHINE

MACHINE LANGUAGE
ANALYSIS WITHIN BOUNDED CONTEXT GRAMMATICAL MODELS FOR COMPUTER PROGRAMMING LANGUAGES
AFCRL-63-399 N64-10550 01-20

EXPANDED ADDRESS LANGUAGE PROPOSAL FOR COMPUTER PROGRAMS
JPRS-17911 N64-10636 01-20

BIBLIOGRAPHY OF MACHINE LANGUAGES & PROCESSING OF SCIENTIFIC AND TECHNICAL DATA
JPRS-21764 N64-11265 02-20

LOGIC DESIGN OF SYMBOLIC LANGUAGE FOR DIGITAL COMPUTER - ADAM
AFCRL-63-510 N64-16431 08-20

LINGUISTICS, MACHINE LANGUAGE, AND LANGUAGE PROCESSING
ESD-TDR-63-620 N64-16825 08-20

CONVERTER FOR TRANSLATION OF ALGOL 60 PROGRAMS INTO MACHINE LANGUAGE
JPRS-23955 N64-17714 09-20

SEQUENCES IN CONTEXT FREE LANGUAGES
SDC-TM-738/001/01 N64-17852 10-20

PLACE - PROGRAMMING LANGUAGE FOR AUTOMATIC CHECKOUT EQUIPMENT
RTD-TDR-4171, VOL. 2 N64-20108 13-20

FORTRAN COMPUTER LANGUAGE ADAPTATION
BRL-1229 N64-21792 15-20

IMPLEMENTATION OF EXISTING LANGUAGES FOR NEW COMPUTERS AND NEW LANGUAGES FOR EXISTING COMPUTERS
RADC-TDR-63-563 N64-24394 17-20

LANGUAGE AND ALGORITHM FOR ABSTRACT SYNTHESIS OF SEQUENTIAL MACHINE - SYSTEMS DESIGN
NASA-TT-F-260 N64-33481 24-20

COMPUTER-INDEPENDENT ABSTRACT MACHINE-LANGUAGE ENCODER AND OPERATING SYSTEM OF UNIVAC 1107 THIN-FILM COMPUTER
NASA-TM-X-55096 N64-33622 24-20

MACHINE LEARNING
STUDIES OF LEARNING MACHINE AND DIGITAL INTEGRATOR AND METHODS FOR CODING IN AUTOMATIC CONTROL
JPRS-19518 N64-10826 02-20

PERCEPTRON - MACHINE FOR LEARNING SIMILAR IN OPERATION TO HUMAN BRAIN N64-10827 02-20

MACHINES FOR TEACHING WORK MEASUREMENT PRACTICES
COA-154 N64-10863 02-01

STOCHASTIC MACHINE INSTRUCTION AND APPLICATION TO BEHAVIOR OF LIVING THINGS - CYBERNETICS N64-12526 04-16

PERCEPTRON CORRECTION PROCEDURES IN NONSEPARABLE SITUATIONS
RADC-TDR-63-533 N64-18030 10-20

LOGIC NETWORKS FOR MACHINE LEARNING USING STATISTICAL PROBABILITIES TO DETERMINE MACHINE BEHAVIOR - PROBABILITY STATE VARIABLE DEVICE
ASD-TDR-63-664, VOL. 2 N64-20269 13-20

TRANSMISSION LINE ANALOG OF FUNCTIONS OF COCHLEA - TUNE LEARNING MACHINE
AL-TDR-64-108 N64-22510 15-09

SIGNAL DISCRIMINATOR FOR CLASSIFICATION OF MACHINE LEARNING PATTERNS
RADC-TDR-64-145 N64-25235 17-16

LEARNING MACHINE - PATTERN RECOGNITION MODEL
TN-1 N64-25296 17-16

PATTERN RECOGNITION AND MACHINE LEARNING USING SEQUENTIAL DECISION APPROACH
TR-EE64-9 N64-32049 23-20

FREQUENCY ANALYSIS OF MACHINE INSTRUCTIONS IN COMPUTER PROGRAM SYSTEMS
TM-1603 N64-33503 24-20

MACHINE LIFE
REDUNDANCY USED TO INCREASE LIFE OF UNATTENDED MACHINES
RM-3338-PR N64-17925 10-17

MACHINE STORAGE
MACHINE STORAGE TECHNIQUE FOR TWO FLOATING POINT NUMBERS IN ONE MACHINE WORD
GAMD-4805 N64-32648 23-20

MACHINE TOOL
SA DIE
ULTRASONIC METHOD OF PRODUCING CHIP BREAKERS ON CERAMIC OR HARD-ALLOY BLADES OF CUTTING TOOL
FTD-TT-62-1266/1&2&4 N64-10247 01-09

ENDURANCE OF TOOLS IN MACHINING OF HIGH STRENGTH METALS N64-17103 09-17

AUTOMATICALLY PROGRAMMED MACHINE TOOL FOR AIRFOIL MODEL MAKING N64-18089 10-17

MECHANIZATION AND AUTOMATION OF MACHINE TOOL CONTROL
FTD-TT-62-1246/1&2 N64-23403 16-20

CENTRIFUGAL COMPRESSOR WHEEL AND CASCADE FLOW STUDIES FOR POWER MACHINE CONSTRUCTION
FTD-TT-62-1816/1&2&4 N64-23494 16-01

OPTIMAL GRAPHING FOR MACHINE TOOLS PROCESSING VARIETIES OF PARTS - PRODUCTION EFFICIENCY N64-29744 21-20

NUMERICALLY-CONTROLLED THREE-AXIS MACHINE TOOLS N64-30370 22-17

LIQUID SCINTILLATION COUNTING APPLIED TO RADIOMETRIC TOOL TESTING
RIA-64-729 N64-32251 23-17

PHYSICAL EFFECTS ON HUMAN BODY OF VIBRATIONS AND SOUND CAUSED BY MECHANICAL AND ELECTRICAL TOOLS
JPRS-26922 N64-32305 23-33

PRECISION TOOLS, MACHINE TOOLS, AND MEASURING APPARATUS
NASA-SP-5013 N64-33608 24-17

POLISHING MACHINE FOR LAPPING SPOT FACES ON AIR BEARING END PLATE N64-33611 24-17

MACHINE TRANSLATION
MACHINE TRANSLATION AND INFORMATION PROCESSING
JPRS-22415 N64-12698 04-01

SEARCHING TECHNIQUE FOR AUTOMATIC STORAGE AND RETRIEVAL OF LANGUAGE INFORMATION
CACL-3 N64-18196 10-20

MACHINING
SA MATERIAL REMOVAL
CF SPARK EROSION MACHINING
CF TOOLING
METAL DEFORMATION AND INDUCTION HEATING DURING ROLLING OF GEARS - COMPARISON WITH MACHINED GEARS
JPRS-19273 N64-10509 01-17

MACHINABILITY OF HEAT-RESISTANT & TITANIUM ALLOYS
FTD-TT-62-1257/1&2 N64-12837 04-17

ERROR CALCULATION OF ELASTIC DEFORMATION IN MACHINING PARTS BY LATERAL TURNING AND RADIAL FEED N64-13580 05-17

MACHINING TESTS OF TITANIUM-ZIRCONIUM-MOLYBDENUM AND MOLYBDENUM-TITANIUM ALLOYS, AND THEIR MICROSTRUCTURE AND CHEMICAL COMPOSITION
ASD-TDR-63-581 N64-14873 06-17

DEPTH OF COLD HARDENED LAYER OF ALLOYS UNDER VARIOUS MACHINING MODES N64-16234 08-17

MACHINABILITY OF STEEL PARTS IN ANNEALED AND HEAT TREATED CONDITIONS
A463 N64-16782 08-18

METAL FORMING, MACHINING, & FINISHING COMPONENTS FABICATED FROM HEAT RESISTANT ALLOYS, STAINLESS STEEL, & TITANIUM ALLOYS
FTD-TT-63-344/1&2 N64-17076 09-17

MACHINING WEAR-RESISTANT ALLOYS & HIGH TEMPERATURE CORROSION-RESISTANT ALLOYS N64-17095 09-17

MACHINABILITY OF HEAT RESISTANT STEELS & ALLOYS IN TURNING, MILLING, AND DRILLING WITH CARBIDE-TIPPED CUTTING TOOLS N64-17096 09-17

TEMPERATURE FIELDS AND THERMOCONDUCTIVITY IN WORKPIECES & TOOLS IN MACHINING HEAT-RESISTANT STEEL ALLOYS N64-17097 09-17

MACHINING HEAT RESISTANT ALLOYS N64-17098 09-17

ELECTRIC-PULSE MACHINING OF HEAT RESISTANT ALLOYS N64-17099 09-17

PRODUCTION METHOD IN MACHINING HEAT RESISTANT STEEL & ALLOYS WITH FACE & END MILLING CUTTERS N64-17101 09-17

MACHINING STAINLESS STEELS & HEAT RESISTANT ALLOYS N64-17102 09-17

ENDURANCE OF TOOLS IN MACHINING OF HIGH STRENGTH METALS N64-17103 09-17

MACHINING HEAT RESISTANT MATERIALS & TITANIUM ALLOYS N64-17105 09-17

METAL FORMING, MACHINING, & FINISHING OF HEAT RESISTANT ALLOYS N64-17106 09-17

METALLOGRAPHIC EVALUATION OF TUNGSTEN SURFACE FINISH AND CONDITION PRODUCED BY ELOX AND ANOCUT MACHINING TECHNIQUES
A477 N64-17135 09-17

REDUNDANCY USED TO INCREASE LIFE OF UNATTENDED MACHINES
RM-3338-PR N64-17925 10-17

METHODS OF MACHINING METALS BY PRESSING
FTD-TT-63-568/1&2 N64-19200 11-17

IMPROVING EASE OF MACHINING OF STEEL CASTINGS BY INTRODUCING SODIUM SULFUR COMPOUNDS INTO MOLTEN STEEL BEFORE CASTING
FTD-TT-63-352/1&2&4 N64-19216 11-17

CONTROL OF TOOLING AND MACHINING OF JOINTS FOR REACTOR IN-FLIGHT TEST /RIFT/ PROJECT
NASA-CR-56360 N64-22443 15-17

DRILLING, REAMING, AND TAPPING TECHNIQUES FOR MACHINING HEAT TREATED STEEL
A732 N64-22578 15-17

PRODUCTION METHOD - SURFACE PLACEMENT ERRORS IN MACHINING COMPONENTS N64-23075 16-17

PRECISION TURNING OF SPHERICAL SPECIMENS OF ALUMINUM, NICKEL, AND COPPER
Y-1463 N64-26477 18-17

MACHINING AND AEROSPACE TECHNOLOGICAL APPLICATION OF REFRACTORY ELEMENTS N64-27599 19-18

APPLICATION OF METHOD OF DIFFERENTIAL COMPLEX FOR INVESTIGATION OF FLAT ENGAGEMENTS N64-31873 23-17

AUTOMATIC EQUIPMENT DEVELOPMENT AND RELIABLE PRODUCTION OF MACHINE ASSEMBLY
FTD-MT-64-229 N64-31977 23-17

FABRICATION OF REFRACTORY METALS AND ALLOYS - METAL FORMING, DEPOSITION, COLD WORKING, WELDING, AND MACHINING TECHNIQUES N64-32768 24-17

SINTERED ALUMINUM POWDER SHEET IN MACHINE BUILDING
JPRS-27004 N64-33343 24-18

MACROSCOPIC EQUATION
SPINOR FORMULATION OF ELECTROMAGNETIC THEORY IN GENERAL RELATIVITY
AFCRL-64-8 N64-16037 07-23

MACROSCOPIC FOUNDATION OF IRREVERSIBLE THERMODYNAMICS - MACROSCOPIC AXIOM GOVERNING DISSIPATIVE PROCESSES N64-28075 20-13

MACROSCOPIC BODIES IN QUANTUM THEORY
ARL-64-168 N64-30954 22-23

MAGMA
SIMULATED EXTRUSIVE MAGMA SOLIDIFICATION IN VACUUM N64-24056 16-29

MAGNESIUM
LOW TEMPERATURE OPERATION OF MAGNESIUM ANODE BATTERIES
AD-425168 N64-12308 03-06

MAGNESIUM SEA WATER CELL WITH BACTERIA COLONIZED CATHODE
NRL-5998 N64-12825 04-06

MAGNESIUM ANODE BEHAVIOR WITH ELECTROLYTES OF MAGNESIUM COMPOUNDS N64-12980 04-09

PREVENTION OF GALVANIC CORROSION BETWEEN MAGNESIUM AND STEEL
CCL-150 N64-14104 05-07

PHYSICAL METABOLIC FATIGUE DUE TO SPARTASE - ASPARTIC ACID SALTS OF POTASSIUM AND MAGNESIUM
CARI-63-12 N64-14409 06-16

PHASE DIAGRAMS FOR ELECTROLYTES, OXYGEN IN FUSED FLUORIDE ELECTROLYTE, ANALYSIS OF URANIUM ALLOYS, AND METHOD FOR ANALYZING HIGH PURITY MAGNESIUM
MCW-1482 N64-15561 07-19

EFFECT OF MAGNESIUM CONCENTRATION ON MECHANICAL PROPERTIES OF 356-T6 ALUMINUM ALLOYS
SM-43094 N64-18712 11-18

LIQUID MAGNESIUM REGENERATIVE FUEL CELL
EDR-3740 N64-20167 13-06

EFFECT OF DEFORMATION ON ANODIC DISSOLUTION OF PURE POLYCRYSTALLINE MAGNESIUM IN DILUTE SULFURIC ACID
TR-7 N64-23603 16-07

IRON, MAGNESIUM, CALCIUM, AND NICKEL DISTRIBUTION IN MURRAY CARBONACEOUS CHONDRITE
NASA-TM-X-54050 N64-24041 16-18

DOSIMETRIC STUDY OF THERMAL LUMINESCENCE OF LITHIUM FLUORIDE DOPED WITH EUROPIUM AND MAGNESIUM
UCRL-7811 N64-25362 17-23

IRON, MAGNESIUM & CALCIUM DISTRIBUTION IN OLIVINES & RHOMBIC PYROXENES OF CHONDRITES
NASA-TM-X-54037 N64-26593 18-05

TEMPERATURE EFFECT ON MICROSTRAIN POINTS IN PRESTRAINED MAGNESIUM SINGLE CRYSTALS N64-29537 21-18

IRON, MAGNESIUM, AND CALCIUM DISTRIBUTION IN OLIVINES AND RHOMBIC PYROXENES OF CHONDRITES
NASA-RP-341 N64-31218 22-12

MAGNESIUM ALLOY
VACANCY CLIMB OF HELICAL AND LOOP DISLOCATIONS IN ALUMINUM-MAGNESIUM ALLOY AND VACANCY BINDING - ENERGY ESTIMATION
UCRL-10879 N64-10185 01-18

DRY FILM LUBRICANTS APPLIED TO ALUMINUM AND MAGNESIUM ALLOYS
A262 N64-13253 04-19

TENSION AND RATIO OF WIDTH-TO-THICKNESS STRAIN DETERMINATIONS OF MAGNESIUM ALLOYS
WAL-TR-834.12/2-3 N64-13724 05-18

CORROSION PREVENTION FOR ALUMINUM, STEEL AND MAGNESIUM TRIMETAL ASSEMBLIES USING STANNOUS PYROPHOSPHATE COATINGS
RIA-63-3471 N64-14013 05-19

EFFECT OF SILVER ADDITION ON WELDING OF ALUMINUM-MAGNESIUM ALLOYS
ARL/MET-18 N64-14052 05-18

INVESTIGATION OF MAGNESIA-MAGNESIUM FLUORIDE-GERMANIA-LITHIUM FLUORIDE FOR SYNTHETIC MINERAL USAGES
BM-RI-6398 N64-17228 09-25

COMPARATIVE STUDY OF 354-T61 AND 356-T6 ALUMINUM-SILICON-COPPER-MAGNESIUM CASTING ALLOYS FOR MECHANICAL PROPERTY ADVANTAGES
SM-44636 N64-18708 11-18

EXPLORATION OF ALUMINUM-SILICON-MAGNESIUM ALLOY SYSTEM
SM-43109 N64-18711 11-18

CORROSION OF MAGNESIUM ALLOYS IN SALT FOG ENVIRONMENT
CCL-161 N64-20301 13-18

IMPROVEMENT OF MECHANICAL PROPERTIES OF MAGNESIUM-NEODYMIUM ALLOYS BY FURTHER ALLOYING N64-21190 14-18

RECRYSTALLIZATION OF BINARY ALLOYS OF MAGNESIUM WITH CERIUM N64-21191 14-18

EFFECT OF CHEMICAL COMPOSITION ON ARTIFICIAL AGE HARDENING & STRESS CORROSION CRACKING OF HIGH STRENGTH ALUMINUM-ZINC-MAGNESIUM-COPPER ALLOYS
RSIC-177 N64-21912 15-18

BENDING & AXIAL STRESS FATIGUE STRENGTH OF ALUMINUM-MAGNESIUM-SILICON ALLOY N64-21987 15-33

COMPARISON OF HEAT AND CORROSION RESISTANCE OF COATINGS ON MAGNESIUM ALLOY
A731 N64-22577 15-18

MAGNESIUM-LITHIUM ALLOYS
NASA-CR-79 N64-23511 16-18

MAGNESIUM-LITHIUM ALLOYS FOR MISSILE AND SPACE STRUCTURAL APPLICATIONS N64-23512 16-18

CORROSION RESISTANCE AND PROTECTION OF MAGNESIUM-LITHIUM ALLOYS N64-23513 16-18

HIGH TEMPERATURE MAGNESIUM ALLOYS
JPRS-25069 N64-23628 16-18

ANNOTATED BIBLIOGRAPHY ON FUSION WELDING OF ALLOYS OF MAGNESIUM WITH LITHIUM AND THORIUM
SB-63-52 N64-23881 16-18

PRESS WELDING OF ROLLED SECTIONS OF ALUMINUM-MAGNESIUM ALLOYS N64-24259 17-18

CORROSION-RESISTANCE, WELDABILITY, HEAT TREATMENT, AND DIFFUSION RATE TESTING OF ALUMINUM-MAGNESIUM-SILICON, ALUMINUM-MAGNESIUM, AND ALUMINUM-ZINC-MAGNESIUM ALLOYS
JPRS-25642 N64-27265 19-18

RESISTOMETRIC INVESTIGATION OF RECOVERY OF DILUTED ALUMINUM-MAGNESIUM ALLOYS COLD-WORKED AT LIQUID NITROGEN TEMPERATURE
REPT.-13.178/6401.105 N64-27691 19-18

INTERMETALLIC COMPOUNDS IN MAGNESIUM ALLOYS CONTAINING ALUMINUM AND ZIRCONIUM
BM-RI-6498 N64-28248 20-18

MECHANICAL PROPERTIES OF ALUMINUM-MAGNESIUM ALLOYS N64-29047 21-18

HEAT TREATMENT OF MAGNESIUM ALLOY CASTINGS N64-29050 21-18

LOW TEMPERATURE ELECTRIC RESISTANCE STUDY OF PRE-PRECIPITATION PROCESS IN SUPERSATURATED ALUMINUM-MAGNESIUM ALLOY
REPT.-13.177/6401.104 N64-29410 21-18

COMPOSITION AND TEMPERATURE EFFECTS ON MECHANICAL PROPERTIES OF ALUMINUM ALLOYS WITH MAGNESIUM
DURING CASTING IN CHILL MOLD N64-31421 23-18

FABRICATION OF MAGNESIUM ALLOY AIRFRAME SKIN
AD-442883 N64-32677 23-17

MAGNESIUM CELL
ENERGY AVAILABILITY IN VARIOUS MAGNESIUM PRIMARY CELL SYSTEM N64-17425 09-06

MAGNESIUM-MAGNESIUM BROMIDE-MANGANESE OXIDE FLAT CELL BATTERY
AD-428461 N64-19872 12-06

MAGNESIUM COMPOUND
CF TALC
REDUCTION OF URANIUM HEXAFLUORIDE RETENTION ON MAGNESIUM FLUORIDE ABSORBERS USED IN REMOVAL OF TECHNETIUM HEXAFLUORIDE
ORNL-3544 N64-14888 06-07

INFRARED TRANSMISSION AND REFLECTION MEASUREMENTS OF SEMICONDUCTING MAGNESIUM STANNIDE SINGLE CRYSTALS OF VARYING IMPURITY CONCENTRATIONS
AFCRL-63-534 N64-16091 07-25

ADVANTAGES THROUGH USE OF RESERVE-TYPE MAGNESIUM PERCHLORATE BATTERIES N64-17420 09-06

KINETICS OF HYDROLYSIS OF MAGNESIUM FLUORIDE AT HIGH TEMPERATURES - CHEMICAL REACTION
UCRL-11103 N64-19098 11-07

HIGH PERFORMANCE MAGNESIUM, MAGNESIUM PERCHLORATE, AND MERCURIC OXIDE RESERVE BATTERIES N64-19383 12-06

MAGNESIUM-MAGNESIUM BROMIDE-MANGANESE OXIDE FLAT CELL BATTERY
AD-428461 N64-19872 12-06

ELASTIC PROPERTIES OF MAGNESIUM OXIDE & MAGNESIUM ALUMINATE SPINEL
AD-432276 N64-20691 13-19

ELASTIC PROPERTIES OF POLYCRYSTALLINE MAGNESIUM ALUMINATE SPINEL N64-20693 13-19

MAGNESIUM GERMANATE
PREPARATION TEMPERATURE EFFECTS ON EMISSION SPECTRA OF MANGANESE ACTIVATED MAGNESIUM GERMANATE
REPT.-2900-446-R N64-14397 06-25

MAGNESIUM-LITHIUM ALLOY
STRESS CORROSION TESTS OF WROUGHT MAGNESIUM-LITHIUM ALLOY
M65-1-1 N64-31292 22-18

MAGNESIUM OXIDE
TRANSPORT PHENOMENA IN PURE & DOPED MAGNESIUM OXIDE - ACTIVATION ENERGY
NASA-RP-46 N64-10074 01-19

TENSILE STRENGTH PROPERTY OF CHROMIUM-MAGNESIUM OXIDE ALLOY WITH TITANIUM
AD-424854 N64-13600 04-19

EXPONENTIAL TEMPERATURE DEPENDENCE OF ELASTIC MODULI OF SINGLE CRYSTAL AND POLYCRYSTALLINE MAGNESIUM OXIDE
AROD-2891-10 N64-13989 05-25

DIFFUSION OF IRON INTO SINGLE CRYSTAL MAGNESIUM OXIDE
UCRL-11073 N64-14069 05-25

FATIGUE PROCESSES IN MAGNESIUM OXIDE SINGLE CRYSTALS
AD-429227 N64-15956 07-25

ELASTIC PROPERTIES OF MAGNESIUM OXIDE & MAGNESIUM ALUMINATE SPINEL
AD-432276 N64-20691 13-19

ELASTIC PROPERTIES OF MAGNESIUM OXIDE
N64-20692 13-19

MIXING MECHANISMS STUDY BY MEASURING AMOUNT OF SPINEL FORMED BY SINTERING ALUMINUM & MAGNESIUM OXIDE POWDERS
ASD-TDR-62-732, PT. II N64-21236 14-17

EFFECT OF THERMAL-MECHANICAL HISTORY ON MECHANICAL BEHAVIOR OF MAGNESIUM OXIDE
HR-64-258 N64-22336 15-25

THERMAL RADIATION OF FLAME WITH CONDENSED MAGNESIUM OXIDE PARTICLES IN REFERENCE TO SOLID ROCKET PROPELLANTS AND EXPLOSIVES N64-26340 18-26

ELECTRIC EXCITATION OF FLUORESCENCE IN MAGNESIUM OXIDE CRYSTALS DOPED WITH CHROMIUM IONS
ML-1036 N64-27233 19-23

THERMAL EXPANSION OF YTTRIUM OXIDE AND OF MAGNESIUM OXIDE WITH YTTRIUM OXIDE
NASA-CR-58310 N64-28995 20-19

FRESH, AGED, GROWN-IN, AND HIGH TEMPERATURE DISLOCATIONS IN INITIATION OF PLASTIC FLOW IN MAGNESIUM OXIDE SINGLE CRYSTALS
TR-24 N64-32061 23-25

OPTICAL CONSTANTS OF MAGNESIUM OXIDE AND CALCIUM TUNGSTATE USING FAR INFRARED SPECTROMETER
NASA-CR-59302 N64-33694 24-25

ULTRAVIOLET IRRADIATION-INDUCED CATALYTIC ACTIVITY OF MAGNESIUM OXIDE USING ELECTRON PARAMAGNETIC RESONANCE SPECTRA
NASA-RP-348 N64-34011 24-07

MAGNET
SA ELECTRET
USING ANISOTROPIC EFFECTS IN HELICALLY WOUND SUPERCONDUCTING SOLENOIDS TO INCREASE MAGNETIC FIELD
NASA-TN-D-2083 N64-11194 02-23

OPTICAL PROPERTIES OF QUADRUPOLE MAGNET DOUBLETS
BNL-795/T304/ N64-11642 03-23

BENDING MAGNET WITH NONSATURATING SHIMMING TO PROVIDE A HOMOGENEOUS MAGNETIC FIELD
SLAC-19 N64-13364 04-23

LARGE SUPERCONDUCTING MAGNETS FOR MAGNETOHYDRODYNAMIC GENERATORS FOR SPACE POWER GENERATION
RTD-TDR-63-4170 N64-13657 05-24

ANALYTIC DETERMINATION OF MAGNETIC FIELD AROUND SATELLITE IN CIRCULAR ORBIT FOR ATTITUDE CONTROL SYSTEM USING SATELLITE MAGNET
NASA-TN-D-2041 N64-15218 07-12

IBM 7090 COMPUTER PROGRAM FOR OPTIMAL SHIMMING AND TRIMMING OF MAGNETS TO OBTAIN SPECIFIED MAGNETIC FIELDS
CERN-64-3 N64-15610 07-23

PARTICLE DYNAMICS IN STANDING WAVE ALVAREZ LINEAR ACCELERATOR WITH QUADRUPOLE FOCUSING MAGNETS
MURA-679 N64-16569 08-23

ELECTRON-BOMBARDMENT ION ROCKET ENGINE WITH PERMANENT MAGNET
AIAA PAPER-63-031 N64-16575 08-27

TEMPERATURE EFFECTS ON REMANENCE OF COMMERCIALLY PRODUCED PERMANENT MAGNETS
ASD-TDR-63-500 N64-17463 09-23

SUPERCONDUCTING VERY-HIGH-FIELD MAGNETS CAPABLE OF STARTS BY LOW-VOLTAGE STORAGE BATTERIES AND OPERATED ON MINIMUM CURRENT INPUT
N64-19386 12-23

DESIGN AND FABRICATION OF TRAVELING WAVE MASER SYSTEM USING SUPERCONDUCTING MAGNET
REPT. 5945-3 N64-19727 12-25

DESIGN OF FORCE-FREE TOROIDAL MAGNET
MATT-208 N64-22195 15-23

DEVICE FOR MEASURING TEMPERATURE COEFFICIENTS OF SMALL MAGNETS
FTD-TT-63-423/1&2&4 N64-22351 15-15

DEGRADATION OF CURRENT CARRYING CAPACITY OF SUPERCONDUCTING MAGNETS
NASA-TN-D-2345 N64-22675 15-25

HIGH FIELD MAGNET USED TO STUDY PROPERTIES OF SUPERCONDUCTORS
CERN-64-23 N64-26528 18-23

DEFLECTING AND FOCUSING CHARGED PARTICLES IN VACUUM CHAMBER BY MAGNET
CERN-64-24 N64-26529 18-23

LOW LEVEL ACCELEROMETER WITH DIAMAGNETICALLY SUPPORTED MAGNET INSIDE SUPERCONDUCTING TUBE
NASA-CR-56941 N64-27312 19-15

FEASIBILITY OF LARGE VOLUME SUPERCONDUCTING MAGNET USING VAPOR DEPOSITED NIOBIUM STANNIDE RIBBON
NASA-CR-54061 N64-28461 20-23

SPARK CHAMBER AND DEFLECTION MAGNET TO PHOTOGRAPH TRACKS OF COSMIC RAY ELECTRONS AT BALLOON ALTITUDES
N64-32224 23-15

INTENSE-FIELD AIR-CORE CRYOGENIC MAGNET
NASA-CR-59054 N64-32488 23-10

ELECTRIC PROPERTIES OF ALUMINUM FOR CRYOGENIC ELECTROMAGNETS
NBS-TN-218 N64-32817 24-25

MAGNETIC ANOMALY
MAGNETIC ANOMALIES IN TRANSITION REGION FROM ASIA TO PACIFIC OCEAN
JPRS-21715 N64-10268 01-12

TRAPPED PROTONS IN SOUTHERN ATLANTIC MAGNETIC ANOMALY
SSD-TDR-63-342 N64-14643 06-12

MAGNETIC CORE
INSTRUCTION MANUAL FOR MAGNETIC CORE MEMORY SYSTEM TCM-32 4096/25 - COVER SYSTEM DESCRIPTION, LAYOUTS, INSTALLATION, OPERATION, & MAINTENANCE
REPT.-71-170 N64-19260 11-09

MAGNETIC CORE TRANSISTOR LOGIC ELEMENTS - RELIABILITY AND AEROSPACE USES N64-21384 14-09

MAGNETIC CORE PROGRAMMER FOR ARMING COPPERHEAD II FUSE SYSTEM
TR-1215 N64-24213 16-06

MAGNETIC MEMORY UNIT USING DIODE-DIGIT ACCESS AND FERRITE CORES N64-24544 17-09

FERRITE CORES FOR MEMORY DEVICES
JPRS-25476 N64-25480 17-20

CONSTRUCTION OF STORAGE ADDERS ACTING IN SEQUENCE FROM FERRITE CORES N64-29137 21-15

COMPUTER LOGIC ELEMENTS USING MAGNETIC CORES AND TRANSISTORS SINGLY AND IN COMBINATION
JPRS-26428 N64-29674 21-09

MAGNETIC CORE MATERIAL SELECTION IN HIGH PERFORMANCE SYNCHROS - IRON ALLOYS WITH SILICON, NICKEL, OR COBALT N64-31507 23-17

MAGNETIC DIPOLE
CF ELECTRIC DIPOLE
APPROXIMATION OF IDEAL DIPOLE WITH A SOLENOID - DIPOLE FIELD PLUS ERROR TERMS N64-10667 01-09

INTERACTION OF PLASMA FLOW WITH MAGNETIC FIELD OF TWO-DIMENSIONAL DIPOLE
NASA-CR-52867 N64-11327 02-24

LANGMUIR PROBE DIAGNOSTICS FOR STUDY OF HIGH SPEED PLASMA IMPINGING UPON THREE DIMENSIONAL MAGNETIC DIPOLE
NASA-CR-52909 N64-11820 03-24

PROPERTIES OF SPHERICAL NUCLEI - MAGNETIC DIPOLE MOMENTS, SPIN-DEPENDENT FORCES, AND APPROXIMATION OF STATE EXCITATION
ARDD-2890-4 N64-12671 04-23

ENERGY LEVEL CONTRIBUTION TO MAGNETIC DIPOLE AND ELECTRIC QUADRUPOLE HYPERFINE INTERACTIONS
AMRA-TR-63-17 N64-14697 06-23

RADIATION FIELD OF MAGNETIC DIPOLE ANTENNA IN CONICAL SHEATH
SSD-TDR-63-319 N64-15812 07-24

AREA OF MOVEMENT OF CHARGED PARTICLES IN DIPOLE MAGNETIC FIELDS AS INDICATED BY GLOW DISCHARGE
N64-17346 09-24

DISTRIBUTION OF UNBOUND CHARGED PARTICLES IN STATIC MAGNETIC FIELD OF DIPOLE
NASA-TM-X-51312 N64-17685 09-23

VERY LOW FREQUENCY APPROXIMATION OF RADIATION FIELD OF HORIZONTAL MAGNETIC DIPOLE
AFCRL-63-516 N64-17844 10-09

FIELD STRENGTHS OF MAGNETIC DIPOLES IN CONDUCTING EARTH & PROPAGATION OF VERY LOW FREQUENCY WAVES IN SOLIDS AND LIQUIDS
AFCRL-64-144 N64-18586 11-12

CHARGED PARTICLE MOTION IN MAGNETIC DIPOLE FIELD WITH KINETIC ENERGY LOSS CONSIDERED
N64-22031 15-24

MOTION OF CHARGED PARTICLES IN FIELD OF MAGNETIC DIPOLE WITH ALLOWANCE FOR ENERGY DISSIPATION
NASA-TT-F-8830 N64-23045 16-23

EXPRESSION IN SPHERICAL COORDINATES FOR POTENTIAL OF MAGNETIC DIPOLE HAVING MAGNETIC MOMENT IN ANY DIRECTION
NASA-TT-F-8668 N64-24970 17-05

LINE SPECTRUM IN MAGNETIC-DIPOLE TRANSITION IN HYPERFINE STRUCTURE OF ATOM N64-27169 19-05

INTERFERENCE POLARIMETER MEASUREMENTS OF POSSIBLE

DISPLACEMENT OF JUPITER MAGNETIC DIPOLE
AD-444166 N64-33458 24-05

MAGNETIC DOMAIN
S SATURATION

MAGNETIC EFFECT
SA BARKHAUSEN EFFECT
SA MEISSNER EFFECT
CONDITIONED REFLEX TO MAGNETISM IN FISH
NASA-TT-F-190 N64-12962 04-16

ATMOSPHERIC TIDES & ASSOCIATED MAGNETIC EFFECTS
NASA-CR-55160 N64-13374 04-21

EVALUATION OF MAGNETIC EFFECTS AND APPLICATION TO CHEMICAL ENGINEERING PROBLEMS
MATT-235 N64-14145 05-23

HIGH FREQUENCY RADIO PROPAGATION OVER EAST-WEST PATHS DURING PERIODS OF MAGNETIC DISTURBANCE
N64-15440 07-12

MAGNETIC BREAKDOWN OF BAND STRUCTURE OF ELECTRON IN SIMPLE CRYSTAL N64-20413 13-25

DYNAMIC THEORY OF ATMOSPHERIC TIDES AND ASSOCIATED MAGNETIC EFFECTS N64-24971 17-12

MAGNETIC EFFECTS OF GEOMAGNETICALLY TRAPPED PARTICLES
NASA-CR-58056 N64-27805 19-28

EXPLORER XII PROTON DETECTOR ANALYSIS OF MAGNETIC EFFECTS OF QUIET TIME PROTON BELT
NASA-TM-X-55078 N64-33627 24-28

MAGNETIC FIELD
SA ELECTROMAGNETISM
SA FORCE-FREE MAGNETIC FIELD
SA SELF-CONSISTENT FIELD /SCF/
SA SOLAR MAGNETIC FIELD
INTERPLANETARY MAGNETIC FIELDS AS CAUSE OF COMET TAILS
NASA-RP-48 N64-10289 01-29

MAGNETICALLY ROTATED ELECTRIC ARC AIR HEATER USING STRONG MAGNETIC FIELD AND COPPER ELECTRODES
NASA-TN-D-2032 N64-10347 01-10

ATLANTIC OCEAN - WINTER HEAT SOURCE FOR EUROPE AND EFFECT ON SECONDARY MAGNETIC FIELD
JPRS-19896 N64-10660 01-12

OPTICAL PUMPING OF GASES AND APPLICATIONS TO STUDY OF ENERGY LEVELS, MAGNETIC FIELD, AND TIME MEASUREMENTS N64-11071 02-23

PRODUCTION OF HIGH POWER OSCILLATIONS IN MAGNETIC FIELD BY MAGNETRON AND PLANOTRON MACHINES
JPRS-21726 N64-11138 02-08

VELOCITY DISTRIBUTION OF FLOWING MERCURY IN TRANSVERSE MAGNETIC FIELDS
FTD-TT-62-1827/1&2 N64-11160 02-11

USING ANISOTROPIC EFFECTS IN HELICALLY WOUND SUPERCONDUCTING SOLENOIDS TO INCREASE MAGNETIC FIELD
NASA-TN-D-2083 N64-11194 02-23

SHOCK WAVE FORMATION ON INTERACTION BETWEEN SOLAR WIND & GEOMAGNETIC FIELD - EFFECT OF WEAK INTERPLANETARY MAGNETIC FIELD
NASA-RP-98 N64-11227 02-28

ELECTRON CYCLOTRON RESONANCE OBSERVED BY RESONANCE PROBE APPLIED TO PLASMA IN MAGNETIC FIELD
IPPJ-15 N64-11249 02-24

MAGNETOHYDRODYNAMIC TURBULENCE IN UNIFORM MAGNETIC FIELD
NASA-RP-86 N64-11255 02-24

SPACE PHYSICS - SOLAR WIND, INTERPLANETARY MAGNETIC FIELD & GEOCENTRIC MAGNETOSPHERE
NASA-CR-52759 N64-11296 02-23

DIFFUSION OF CHARGED PARTICLES OF PLASMA IN MAGNETIC FIELD N64-11427 02-24

EFFECT OF CONSTANT MAGNETIC FIELD ON CONDITIONED REFLEXES IN SEA FISH
NASA-TT-F-189 N64-11564 03-16

CYCLOTRON ORBIT - IBM 709 COMPUTER PROGRAM FOR TRACING SECONDARY BEAMS OUT OF CYLINDRICALLY SYMMETRIC MAGNETIC FIELD
UCRL-11044 N64-11584 03-23

PROPAGATION OF ELECTROSTATIC ION WAVES PERPENDICULAR TO DENSITY GRADIENT IN IONIZED PLASMA IN MAGNETIC FIELD
MATT-227 N64-11586 03-24

COMPUTATION OF SOLAR MAGNETIC FIELD FROM HYDROMAGNETIC EQUATIONS FOR VELOCITY FIELDS IN LOW PHOTOSPHERE N64-11590 03-28

ERUPTIVE PROMINENCE MOTIONS - TRAJECTORIES & MAGNETIC FIELDS N64-11636 03-28

CONVERSION OF KINETIC ENERGY OF PLASMA STREAM INTO ELECTRICAL ENERGY BY ISOTHERMAL RETARDATION IN TRANSVERSE MAGNETIC FIELD N64-11712 03-24

MERCURY ARC DISCHARGE PLASMA MEASUREMENTS IN MAGNETIC FIELD N64-11961 03-24

MAGNETIC FIELDS IN CORONA AND SOLAR WIND AS MEASURED BY MARINER II SPACE PROBE
NASA-CR-52928 N64-12096 03-28

STATIC MAGNETIC FIELD EFFECT ON RADIATION PATTERN OF PLASMA COATED SLOT ANTENNA
AFCRL-63-347 N64-12193 03-24

NONRELATIVISTIC ELECTRONS IN MAGNETIC FIELD AND APPLICATION TO SOLAR PHYSICS
E-T-CH-63-3 N64-12198 03-28

FLOW STABILITY OF NON-NEWTONIAN LIQUID BETWEEN TWO ROTATING CYLINDERS IN PRESENCE OF CIRCULAR MAGNETIC FIELD
MRC-433 N64-12242 03-11

ELECTRICAL CONDUCTIVITY OF CONDUCTING MEDIUM BY MEASUREMENTS OF JOULE LOSS PRODUCED BY OSCILLATING MAGNETIC FIELD
BSD-TDR-63-201 N64-12250 03-24

MODEL FOR PRODUCTION OF SMALL EDDIES FROM LARGE ONES IN MAGNETIC FIELD - MAGNETOHYDRODYNAMIC TURBULENCE
MRC-420 N64-12332 03-23

SOVIET SCIENCE - OPTIMAL CONTROL, RADICALS, RESONANCE SPECTRA, DETRITUS ANALYSIS, BONE REGENERATION, & MAGNETIC FIELD EFFECT ON BIOLOGY
JPRS-20231 N64-12493 04-01

MECHANISM OF BIOLOGICAL ACTION OF PULSED MAGNETIC FIELD N64-12499 04-16

INSTANTANEOUS BROADBAND TRAVELING WAVE MASER SYSTEM - REQUIREMENTS FOR STRUCTURE AND MAGNETIC FIELD
RADC-TDR-63-461 N64-12592 04-25

HEATING AND CONFINEMENT OF PLASMA BY ALTERNATING MAGNETIC FIELD
SSD-TDR-63-312 N64-12615 04-24

INSTRUMENTS AVAILABLE FOR MEASURING MAGNETIC FIELDS IN EXTREMELY WIDE FREQUENCY RANGE
RADC-TDR-63-75 N64-12650 04-23

CONDITIONED REFLEX TO MAGNETISM IN FISH
NASA-TT-F-190 N64-12962 04-16

WEAK UNIFORM MAGNETIC FIELD POLARIZING ELECTRON SPINS OF SUPERCONDUCTOR - NONVANISHING PARAMAGNETIC SUSCEPTIBILITY
LNF-63/71 N64-13024 04-23

MICROWAVE RADIATION FROM DC DISCHARGE PLASMA IN MAGNETIC FIELD
IPPJ-13 N64-13027 04-24

PIONEER I OBSERVATIONS OF LONG-PERIOD MAGNETIC OSCILLATIONS
NASA-RP-123 N64-13028 04-29

MOTION EQUATION OF CHARGED PARTICLE IN STATIC MAGNETIC FIELD
NASA-RP-99 N64-13208 04-28

TRANSFORMER COILS FOR HIGH MAGNETIC FIELDS
CERN-63-36 N64-13324 04-23

BENDING MAGNET WITH NONSATURATING SHIMMING TO PROVIDE A HOMOGENEOUS MAGNETIC FIELD
SLAC-19 N64-13364 04-23

STRAY MAGNETIC FIELD & RF COUPLER ASYMMETRY TOLERANCES IN SECTOR FOCUSED TWO-MILE ACCELERATOR
SLAC-20 N64-13365 04-23

MAGNETIC FIELD PRODUCTION BY SUPERCONDUCTORS
AERE-M-1207 N64-13944 05-23

TORSIONAL MAGNETOELASTIC WAVES IN CIRCULAR CYLINDER IN MAGNETIC FIELD WITH & WITHOUT STEADY ELECTRIC FIELD
E-118.3 N64-14027 05-23

RHENIUM-TUNGSTEN COILED FILAMENTS IN MAGNETIC FIELD OF STELLARATOR AND OPERATED UNDER PULSED AND STEADY CONDITIONS
MATT-229 N64-14144 05-23

CALCULATION OF LOWEST MODES OF OSCILLATION FOR NONUNIFORM PLASMAS CONFINED BY MAGNETIC FIELDS
MATT-232 N64-14235 06-24

MAGNETIC FIELD ANNIHILATION RATE AT BOUNDARY BETWEEN PLASMA REGIONS WITH OPPOSING FIELD LINES - SOLAR FLARE MECHANISMS & MAGNETOHYDRODYNAMIC WAVES
AMP-123 N64-14318 06-28

TRANSITION BOUNDARY LAYER SEPARATING UNIFORM MAXWELLIAN PLASMA FROM ITS CONFINING MAGNETIC FIELD
AFCRL-63-376 N64-14328 06-24

MAGNETIC FIELD INTENSITY GRADIENT IN SOLAR PHOTOSPHERE
NASA-TT-F-138 N64-14405 06-12

THREE & FOUR COIL SYSTEMS FOR UNIFORM MAGNETIC FIELD OF LARGE VOLUME
NASA-TN-D-2095 N64-14983 06-23

MAGNETIC FIELD INFLUENCE ON RADIATION EFFECT IN INSECT WING DEVELOPMENT N64-15207 07-16

ANALYTIC DETERMINATION OF MAGNETIC FIELD AROUND SATELLITE IN CIRCULAR ORBIT FOR ATTITUDE CONTROL SYSTEM USING SATELLITE MAGNET
NASA-TN-D-2041 N64-15218 07-12

CURRENT DENSITY DISTRIBUTION IN AXIAL & RADIAL COMPONENTS OF THICK, FINITE-LENGTH SOLENOID MAGNETIC FIELD
NASA-TR-R-170 N64-15331 07-23

BIOLOGICAL EFFECT OF MAGNETIC FIELD ON DROSOPHILA
NASA-CR-55625 N64-15346 07-16

FIRST AND SECOND ORDER BEAM OPTICS OF CURVED, INCLINED MAGNETIC FIELD BOUNDARY IN IMPULSE APPROXIMATION
SLAC-24 N64-15396 07-23

SOLAR-INDUCED EFFECTS ON VERY HIGH FREQUENCY IONOSPHERIC PROPAGATION AT LOW MAGNETIC LATITUDE
N64-15442 07-12

PLASMA THERMOCOUPLES AND PULSED MAGNETIC FIELD EFFECTS N64-15493 07-24

IBM 7090 COMPUTER PROGRAM FOR OPTIMAL SHIMMING AND TRIMMING OF MAGNETS TO OBTAIN SPECIFIED MAGNETIC FIELDS
CERN-64-3 N64-15610 07-23

MAGNETIC FIELD INTENSITY METER FOR MEASURING FIELD STRENGTH
JPRS-23408 N64-15698 07-15

FLOW OF CONDUCTING INVISCID LIQUID PAST THIN SYMMETRIC NONCONDUCTING AND NONMAGNETIC AIRFOIL IN PRESENCE OF ALIGNED MAGNETIC FIELD
AD-429930 N64-15937 07-24

FREQUENCY MODULATION OF GAS LASER BY AXIAL MAGNETIC FIELD AND NONLINEAR OPTICAL EFFECTS
SSD-TDR-63-351 N64-16086 07-25

SOLENOID CONSTRUCTION WITH AXIALLY SYMMETRIC MAGNETIC FIELD FOR STUDY OF FOCUSING OF ELECTRON BEAM N64-16132 08-23

MOTION OF CONDUCTIVE VISCOUS GAS IN MAGNETIC & ELECTRIC FIELDS
FTD-TT-63-202/1&2 N64-16360 08-23

EFFECT OF ELECTRODE NONUNIFORMITIES ALONG MAGNETIC FIELD IN MAGNETOHYDRODYNAMIC GENERATORS
AVCO-EVERETT RES. REPT.-176 N64-16866 08-24

AREA OF MOVEMENT OF CHARGED PARTICLES IN DIPOLE MAGNETIC FIELDS AS INDICATED BY GLOW DISCHARGE
N64-17346 09-24

WAVE PROPAGATION AND RESONANCE IN PLASMAS IMMERSED IN MAGNETIC FIELDS
NASA-CR-53229 N64-17352 09-24

RESONANCES AND WAVES IN IONIZED PLASMAS IN STRONG MAGNETIC FIELDS N64-17355 09-24

INTERACTION OF ELECTRON BEAM OF MODERATE ENERGY WITH FULLY IONIZED PLASMA IMMERSED IN STATIC MAGNETIC FIELD
MATT-239 N64-17502 09-24

ELECTRON BEAM EXCITATION OF ELECTROSTATIC OSCILLATIONS IN MAGNETIC FIELD
MATT-242 N64-17776 09-24

EXPLORER XIV MAGNETIC FIELD MEASUREMENTS IN TAIL OF GEOMAGNETIC CAVITY
NASA-CR-53342 N64-17789 09-12

MAGNETIC FIELD EFFECT AND HEAT TRANSFER RATES IN FLOWING PLASMA
AEROCHEM-TP-56 N64-18010 10-24

FIELD ANALYSIS BY INTEGRALS APPLIED WITH ELECTRONIC COMPUTER TO TEST FIELDS OVER SURFACE OF SPHERE
NASA-CR-53470 N64-18171 10-12

KINETIC EQUATIONS OF RADIATIVE TRANSFER OF PLASMA IN MAGNETIC FIELD
MATT-243 N64-18342 10-24

ENERGY RADIATION IN PLASMA FROM ROTATING CHARGE DISTRIBUTION IN MAGNETIC FIELD
NASA-CR-53586 N64-18436 10-24

SURFACE EFFECTS AND MAGNETIC FIELDS OF MAGNETIC MATERIALS
ASD-TDR-63-424 N64-18569 11-18

MAGNETIC FIELD VARIATIONS IN LIGHTNING DISCHARGES
AFCRL-64-78 N64-18630 11-23

CALCULATION OF DISTRIBUTION OF CURRENT DURING FLOW OF CONDUCTING LIQUIDS THROUGH CHANNELS IN MAGNETIC FIELDS
FTD-MT-63-8 N64-18663 11-23

ELECTRON HEATING IN PLASMA FLOWING ACROSS MAGNETIC FIELD
FTD-MT-63-66/1&2 N64-18759 11-24

RESISTIVITY OF NICKEL ALLOY WIRE IN ZERO MAGNETIC FIELD AT CRYOGENIC TEMPERATURES
AD-434386 N64-18780 11-23

DYNAMIC NUCLEAR POLARIZATION OF LIQUIDS IN HIGH MAGNETIC FIELDS
EUR-483.E N64-19042 11-23

HIGH POWER DUPLEXER UTILIZING PLASMA CONFINED BY

MAGNETIC FIELD
QR-1 N64-19143 11-24

STEADY STATE CONDITIONS OF HIGH TEMPERATURE AND PINCH EFFECT IN LONGITUDINAL MAGNETIC FIELD
FTD-TT-63-373/1&2&4 N64-19218 11-24

TYPES, EVOLUTION, AND MAGNETIC FIELDS OF PLANETARY NEBULAE N64-19334 12-05

AXISYMMETRIC MAGNETIC FIELD CONFIGURATION HAVING NONZERO MINIMUM FIELD INTENSITY
MATT-256 N64-19472 12-24

LOCATION OF SINGULARITIES IN MAGNETIC FIELD
MATT-246 N64-19488 12-23

DIFFUSION OF CESIUM PLASMA IN MAGNETIC FIELD
MATT-257 N64-19489 12-24

CESIUM ARC PLASMA DIFFUSION ACROSS LOW MAGNETIC FIELDS
AFCRL-64-277 N64-19649 12-24

EXTREMELY LOW FREQUENCY MAGNETIC FIELD WAVES IN INHOMOGENOUS HYDROMAGNETIC MEDIUM
N64-19700 12-12

VISCOELECTRIC MAGNETOHYDRODYNAMIC ANALOGY
N64-19832 12-24

MAGNETIC FIELD ABOUT INVERTED MAGNETRON INJECTION ELECTRON GUN
QPR-10 N64-20099 13-09

DRIFT SURFACES OF GUIDING CENTER MOTION AND PLASMA BEHAVIOR IN BUMPY TORUS STATIC MAGNETIC FIELD
UCRL-7246 N64-20281 13-24

WAVE PROPAGATION PERPENDICULAR TO MAGNETIC FIELD IN IONIZED GAS - HYDROMAGNETIC WAVE GENERATION
US-36 N64-20387 13-24

INTERACTION OF HIGH DENSITY PLASMA WITH ELECTRIC, MAGNETIC, AND FLUID DYNAMIC FIELDS
ARL-64-34 N64-20452 13-24

VARIATION OF HALL CURRENTS WITH MAGNETIC FIELD FOR VARIOUS CONSTANT AXIAL CURRENTS
N64-20700 13-25

HOLLOW SPHERE OR CYLINDER SUPERCONDUCTORS IN MAGNETIC FIELD N64-20720 13-23

INTERACTION AND COUPLING OF ELECTROMAGNETIC AND HYDRODYNAMIC FIELDS IN MEDIUM WITH UNIFORM MAGNETIC FIELD STRENGTH N64-20760 14-24

ESTABLISHMENT OF STATIONS AND DEVELOPMENT OF TIME MARKER FOR INVESTIGATING EXTREMELY LOW FREQUENCY MAGNETIC FIELD FLUCTUATIONS
AFCRL-64-81 N64-21030 14-12

SPACE CHARGE SHEATHS - MAGNETIC FIELDS, IONIC WAVES, AND RELATED PLASMA PHYSICS
EUR-495.I N64-21114 14-24

INTERACTION OF FREE-SURFACE WAVES ON LIQUID METALS WITH TRANSVERSE MAGNETIC FIELDS
NASA-TR-R-161 N64-21256 14-11

BIBLIOGRAPHY OF INTERPLANETARY MAGNETIC FIELD OBSERVATIONS
LR-17860 N64-21485 14-28

ANALYSIS OF OXYGEN IN GAS MIXTURES, USING VISCOSITY VARIATIONS OF OXYGEN IN MAGNETIC FIELD
MH-TRANS-504 N64-21618 15-11

MAGNETIC FIELD IN OUTER SPACE N64-21629 15-12

MAGNETIC FIELD DISTRIBUTION IN PHOTOSPHERIC LAYERS OF SUN
DI-82-0216 N64-21905 15-28

PENETRATION OF PLASMA FROM SOURCE WITH ELECTRON OSCILLATIONS TO EVACUATED REGION WITH MAGNETIC FIELD
FTD-TT-64-400/1&2&4 N64-21979 15-24

CLASSICAL THEORY OF ADIABATIC INVARIANTS APPLIED TO CHARGED PARTICLE MOTION IN MAGNETIC FIELD
N64-22029 15-24

PLASMA TURBULENCE - RANDOM FLUCTUATION OF MAGNETIC FIELD DURING LINEAR PINCH
ATN-64/9231/-3 N64-22125 15-24

NONUNIFORM MAGNETIC FIELD MEASURED BY MAGNETOMETER USED AS MAGNETIC PROBE
FTD-TT-62-1874/1&2 N64-22145 15-15

KINETICS OF DISRUPTING SUPERCONDUCTIVITY BY VARIABLE FIELD
FTD-TT-62-1716/1&2 N64-22147 15-25

STRESS TENSOR OF PARTIALLY IONIZED GAS IN ELECTRIC AND MAGNETIC FIELDS N64-22490 15-24

EQUATORIAL LOCI OF MAGNETIC FIELD OF EARTH AND COSMIC RAY PARAMETERS
AFCRL-64-174 N64-22609 15-12

EQUILIBRIUM OF TOROIDAL PINCH IN MAGNETIC FIELD
FTD-TT-63-374/1&2&4 N64-22648 15-23

KINETIC EQUATIONS OF IONIZED PLASMA WITH AND WITHOUT EXTERNAL MAGNETIC FIELD
TR-1 N64-22898 16-24

EXPERIMENTAL DATA ON EARTH, MOON, AND INTERPLANETARY MAGNETIC FIELDS
NASA-TT-F-8562 N64-22930 16-28

ERRORS IN CONSTRUCTING MAGNETIC COMPONENTS OF ACCELERATORS
LNF-64/1 N64-23020 16-23

ELECTROMAGNETIC WAVES IN PLASMAS - LANDAU ABSORPTION IN PLASMA HAVING NO MAGNETIC FIELD
NASA-TT-F-9001 N64-23053 16-24

ADIABATIC INVARIANT MOTIONS OF CHARGED PARTICLE IN STATIONARY NONHOMOGENEOUS MAGNETIC FIELD
NASA-TT-F-8828 N64-23127 16-24

SPACECRAFT INVESTIGATION OF ENERGETIC PARTICLES AND MAGNETIC FIELDS IN SPACE
AIAA PAPER-64-337 N64-23229 16-28

EFFECT OF MAGNETIC FIELD ON TWO-PHASE FLOW OF SODIUM-POTASSIUM ALLOY AND NITROGEN IN RECTANGULAR CHANNEL
ANL-6854 N64-23284 16-24

BALLISTIC GALVANOMETER FOR MEASUREMENT OF MAGNETIC FIELD ON FERROMAGNETIC MATERIAL
FTD-TT-63-1/1&2&4 N64-23411 16-15

MAGNETIC FIELD IN AIR GAP OF INDUCTION MACHINE WITH CURVED STATOR
FTD-TT-63-157/1&2&4 N64-23423 16-04

NEUTRALIZATION OF ION BEAM WITH ELECTRONS IN MAGNETIC FIELD
FTD-TT-64-176/1&4 N64-23431 16-24

ANALYTICAL SOLUTION OF MAGNETIC FIELD IN GAP OF INDUCTOR GENERATOR CONSIDERING ELECTROMOTIVE FORCE N64-23578 16-09

WAVE TRANSFORMATION ON PLASMA BOUNDARY IN MAGNETIC FIELD N64-23789 16-24

MOTION OF CHARGED PARTICLE THROUGH STATIONARY MAGNETIC FIELD IN APPROXIMATION OF AVERAGE DRIFT
N64-23858 16-27

INTERACTION BETWEEN PLASMA FLOW AND RING COIL MAGNETIC FIELD - CHANNELING EFFECT
N64-24379 17-24

SHORT-PERIOD PULSATION OF EARTH MAGNETIC FIELD DUE TO CORPUSCULAR STEAM INTRUSION ON STRATOSPHERE
N64-24435 17-12

TRANSPORT PROPERTIES OF PARTIALLY IONIZED GAS IN ELECTRIC AND MAGNETIC FIELDS
NASA-TN-D-2369 N64-24820 17-13

PLASMA INTERACTIONS WITH ELECTRON BEAMS, ELECTROMAGNETIC WAVES, AND MAGNETIC FIELDS
N64-24863 17-24

AZIMUTHAL COMPONENT OF HELICAL SOLENOID MAGNETIC FIELD
NASA-TN-D-2372 N64-25053 17-23

DISTRIBUTION OF ELECTRIC AND MAGNETIC FIELDS IN ROTATING PLASMA IN THERMODYNAMIC EQUILIBRIUM
NASA-TT-F-8690 N64-25070 17-24

ELECTRON BEAM COMPRESSION USING ELECTRIC AND MAGNETIC FIELDS
NSF-6 N64-25113 17-23

MAGNETIC FIELD FOR IMPROVEMENT OF HIGH POWER PERFORMANCE OF GAS DUPLEXER TUBES
USAELRDL-TR-2432 N64-25131 17-24

CHARGED PARTICLE FLOW IN MAGNETIC FIELDS
NASA-TT-F-8903 N64-25287 17-11

MICROSTRUCTURE OF INTERNAL MAGNETIC FIELD IN FERRO-, FERRI-, AND ANTIFERROMAGNETIC SOLIDS
ML-TDR-64-58 N64-25592 17-23

MAGNETIC FIELDS OF COLLAPSING MASSES AND NATURE OF SUPERNOVAE
NASA-TT-F-8910 N64-25615 17-05

INTERNAL MAGNETIC FIELD OF PLASMA WITH SUPERCRITICAL OPERATION OF POSITIVE COLUMN
D1-82-0283 N64-25617 17-24

APPARATUS FOR MEASURING VARIATION WITH TEMPERATURE OF CURRENT CARRYING CAPACITY OF SUPERCONDUCTING MATERIAL AS FUNCTION OF EXTERNALLY APPLIED MAGNETIC FIELD
AMP-141 N64-25758 17-09

SHORT AND LONG WAVELENGTH DISTURBANCES OF TWO-COMPONENT COLLISIONLESS PLASMA POLARIZED PARALLEL TO MAGNETIC FIELD
AGN-115 N64-25813 17-24

CRITICAL MAGNETIC FIELD MEASUREMENT IN RELATION TO CORKSCREW INSTABILITY OF POSITIVE COLUMN IN AXIAL MAGNETIC FIELD
NASA-TT-F-218 N64-26039 18-23

THERMOELECTRIC CONVERSION SYSTEM - MAGNETIC FIELD EFFECT, SPACE CHARGE EFFECT, AND ALTERNATING VOLTAGE GENERATION
FTD-TT-64-528/1&2 N64-26163 18-06

ZONAL HARMONICS TO EVALUATE MAGNETIC FIELDS GENERATED BY AXISYMMETRIC CURRENT SHEETS
NASA-TN-D-2400 N64-26248 18-25

MAGNETIC FIELD PRODUCTION - PULSED AND CONTINUOUS COIL STRESSES, SUPERCONDUCTIVITY, PLASMA AND FUSION PHYSICS, AND PARTICLE PHYSICS
ATD-P-64-46 N64-26298 18-23

REITERATIVE METHOD FOR DETERMINING BOUNDARY SHAPE BETWEEN PLASMA AND MAGNETIC FIELD
NASA-RP-266 N64-26406 18-24

STRETCHED ELASTIC SHEET ANALOG TO MAGNETIC FIELD FOR STUDY OF MAGNETOGASDYNAMIC FLOW
AD-437750 N64-26681 18-24

COMPRESSION OF MAGNETIC FIELD BY EXPLODING FOILS
LGI-64/7 N64-26750 18-24

DETERMINING THREE COMPONENTS OF MAGNETIC FIELD IN SUNSPOTS
NASA-TT-F-8932 N64-26787 18-29

SIMULATION OF CHARGED PARTICLE MOVING IN MAGNETIC FIELD BY CURRENT CARRYING WIRE UNDER TENSION
M-15 N64-26793 18-23

SECULAR VARIATIONS IN RELATION BETWEEN MAGNETIC FIELD STRENGTH AND AREA OF SHORT-LIVED SUNSPOTS
AFCRL-63-770 N64-26812 18-28

DECELERATION AND ENERGY CONVERSION IN PLASMA EXPANDING IN VACUUM IN PRESENCE OF MAGNETIC FIELD
NASA-TT-F-239 N64-26837 18-24

SOLID STATE PHYSICS - MOTOR GENERATORS AND HIGH MAGNETIC FIELDS N64-27118 19-06

MAGNETIC FIELD EFFECTS ON MOLECULAR BEAM SCATTERING FROM TARGET ROTOR
AST-3530-102-64U N64-27232 19-11

STRUCTURE OF STRONG COLLISIONLESS WAVE IN PLASMA PERPENDICULAR TO MAGNETIC FIELD
NASA-TM-X-55010 N64-27248 19-24

WORLD MAGNETIC SURVEY /WMS/ - METHOD FOR MINIMIZING LIMITATIONS OF MATHEMATICAL AND GRAPHICAL DESCRIPTIONS OF EARTHS MAGNETIC FIELD
NASA-RP-277 N64-27355 19-12

PHOTONS IN MAGNETIC FIELDS
NASA-RP-285 N64-27359 19-24

SIMILARITY RULES OF FLOW OF PERFECTLY CONDUCTING GAS WITH ALIGNED MAGNETIC FIELD
ARL-64-113 N64-27468 19-24

SIMPLE MODEL AND CALCULATION OF INTERPLANETARY MAGNETIC FIELD
NASA-TN-D-2403 N64-27663 19-29

CALCULATING MAGNETIC FIELD COMPONENTS IN OR AROUND THICK FINITE SOLENOID
NASA-RP-287 N64-27760 19-23

TRANSPORT PROPERTIES OF PARTIALLY IONIZED GAS IN PRESENCE OF ELECTRIC AND MAGNETIC FIELDS
NASA-CR-58210 N64-27878 20-24

INFLUENCE OF STRONG MAGNETIC FIELDS ON BIOLOGICAL PROCESSES IN MONKEYS
NASA-CR-56886 N64-27890 20-16

EFFECT OF COMPRESSIBILITY, ROTATION, AND MAGNETIC FIELD ON DRAG ON SPHERE OSCILLATING IN CONDUCTING VISCOUS MEDIUM
NASA-TM-X-55051 N64-28084 20-11

BOUNDARY LAYER GROWTH ON FLAT PLATE IN PRESENCE OF TRANSVERSE MAGNETIC FIELD N64-28099 20-11

SQUARE-COIL SYSTEM FOR PRODUCTION OF UNIFORM MAGNETIC FIELD N64-28214 20-23

MATHEMATICAL ANALYSIS OF SIX CIRCULAR-COIL SYSTEM FOR PRODUCTION OF UNIFORM MAGNETIC FIELD
N64-28215 20-23

DIMENSIONS OF COIL SYSTEMS NECESSARY TO PRODUCE UNIFORM MAGNETIC FIELD N64-28216 20-23

VECTOR POTENTIAL AND MOTION OF CHARGED PARTICLES IN AXISYMMETRIC MAGNETIC FIELD
NASA-RP-293 N64-28354 20-24

MAGNETIC FIELDS IN INTERSTELLAR SPACE
N64-28381 20-29

CIRCULAR POLARIZATION OBSERVATIONS OF STELLAR MAGNETIC FIELD N64-28392 20-05

CROSSED ELECTRIC AND MAGNETIC FIELDS USED TO FOCUS BEAM OF CHARGED PARTICLES AND CONTROL DRIFT VELOCITY
R-214 N64-28503 20-08

CONFIGURATION OF STELLARATOR CORRUGATION FIELD TO REDUCE LOCALIZED INSTABILITIES
MATT-281 N64-28505 20-24

CLASSICAL STABILITY THEOREM FOR THERMAL EQUILIBRIUM STATE OF ELECTRON GAS IN MAGNETIC FIELD
TR-21 N64-28634 20-24

FINAL PRECESSION ANGLES FOR FERRITE SAMPLES SUBJECTED TO PULSED MAGNETIC FIELDS
ML-1149 N64-28713 20-25

ABSOLUTE VALUE OF OPTICAL GAIN IN RUBY LASERS AS

FUNCTION OF INHOMOGENEOUS MAGNETIC FIELD INTENSITY
NASA-CR-58627 N64-28835 20-25

EFFECT OF MAGNETIC FIELD ON ELECTRON STREAMS IN CESIUM VAPOR FILLED DIODE
FTD-TT-63-351/1&2 N64-29015 20-24

INFLUENCE OF GAS STREAMS AND MAGNETIC FIELDS ON ELECTRIC DISCHARGES - ARCS AT ATMOSPHERIC PRESSURE IN ANNULAR GAPS
ARC-CP-743 N64-29236 21-24

STABILITY OF FLOW BETWEEN CONCENTRIC CYLINDRICAL SURFACES IN PRESENCE OF CIRCULAR MAGNETIC FIELD
MTI-64TR25 N64-29348 21-24

MAPPING OF MAGNETIC FIELD IN VICINITY OF CURRENT SHEETS IN PLASMAS - THEORY OF STRUCTURE OF CURRENT SHEETS
NASA-CR-58649 N64-29405 21-24

PROPAGATION OF SURFACE WAVES ALONG INFINITE, PERFECTLY CONDUCTING PLANE SURFACE COATED WITH PLASMA LAYER AND SUBJECTED TO DC MAGNETIC FIELD
REPT.-1565-6 N64-29413 21-08

HIGH MAGNETIC FIELD FAR INFRARED RADIATION SOURCES
N64-29479 21-23

TWO ENERGY STORAGE SYSTEMS - STORAGE IN HIGH INTENSITY MAGNETIC FIELDS AND BY ELECTROLYSIS OF WATER STORING HYDROGEN AT HIGH PRESSURE
N64-29490 21-06

INTERACTION OF EXPANDING CYLINDRICAL PLASMA WITH EXTERNAL MAGNETIC FIELD
NASA-TT-F-234 N64-29492 21-24

FLOW OF ELECTRICALLY CONDUCTIVE FLUID IN PLANE MAGNETOHYDRODYNAMIC CHANNEL WITH TRANSVERSE MAGNETIC FIELD
NASA-TT-F-242 N64-29493 21-24

SPIRAL MOTION OF ELECTRICALLY CONDUCTIVE GAS BETWEEN COAXIAL PERMEABLE CYLINDERS IN PRESENCE OF MAGNETIC FIELD
NASA-TT-F-240 N64-29498 21-24

MAGNETIC FIELD AS PROTECTIVE SHIELD FROM COSMIC RAY SHOWERS IN INTERPLANETARY SPACEFLIGHT
FTD-TT-63-760/1&2 N64-29587 21-34

NUCLEAR MAGNETIC RESONANCE IN FERROMAGNETIC MATERIALS OBSERVED IN ZERO APPLIED MAGNETIC FIELD
AD-602514 N64-29747 21-25

SUPERPOSITION CALCULATION FOR FIELD OF THICK CIRCULAR SOLENOID FROM TABULATED VALUES FOR SEMI-INFINITE SOLENOIDS
NASA-TN-D-2494 N64-30103 21-23

DIFFUSION OF CESIUM ARC PLASMAS ACROSS MAGNETIC FIELDS OF DIFFERING STRENGTHS
AD-437524 N64-30172 21-24

BEHAVIOR OF MAGNETIC FIELDS ASSOCIATED WITH SOLAR FLARES N64-30264 22-28

ASSOCIATION OF SOLAR FLARES WITH STATIONARY POINTS OF ZERO MAGNETIC FIELD N64-30265 22-28

TYPE II SOLAR RADIO BURSTS AND MAGNETIC FIELD IN CORONA N64-30293 22-28

MAGNETIC ENERGY DISSIPATION IN SOLAR ATMOSPHERE BOTH IN STEADY PLAGE CONDITION AND IN SOLAR FLARE EVENTS N64-30294 22-28

NATURE OF SOLAR FLARES - MAGNETIC FIELD ENERGY SOURCE AND PREDICTION OF FLARE OCCURRENCE
N64-30298 22-28

MECHANISM FOR DISSIPATION OF MAGNETIC FIELD IN SOLAR FLARES N64-30299 22-28

STABILITY OF SOLAR MAGNETIC FIELD IN REGION OF FLARES N64-30300 22-08

SOLAR FLARE PROCESS - SOLAR WIND AS ENERGY SOURCE, MAGNETIC STORAGE OF ENERGY, AND PARTICLE ACCELERATION N64-30302 22-28

DETERMINATION OF PROPERTIES OF PLASMA BY INTERACTION WITH APPLIED ELECTRIC OR MAGNETIC FIELD
AFOSR-64-1000 N64-30695 22-24

RING CURRENT OF TERRESTRIAL MAGNETIC FIELD
P-2939 N64-30744 22-24

COMPENSATION OF ION BEAM SPACE CHARGE BY ELECTRONS IN HIGH VACUUM MAGNETIC FIELD
NASA-TT-F-8963 N64-30856 22-24

DETECTION AND MEASUREMENT OF SMALL MAGNETIC FIELDS - HALL GENERATOR AND VOLTAGE AMPLIFIER
N64-31499 23-15

FRAMELESS, SHIELDED FIELD, DIRECT CURRENT TORQUER
N64-31504 23-17

MAGNETIZING FORCE COMPONENTS OF EARTH CONSTANT MAGNETIC FIELD IN ORBITAL COORDINATE SYSTEM
N64-31532 23-12

UNSTEADY FLOW PROBLEMS IN VISCOUS, ELECTRICALLY CONDUCTING FLUID IN MAGNETIC FIELD
NASA-TT-F-9105 N64-31565 23-24

PLASMA ACCELERATION BY TRAVELLING MAGNETIC FIELD
N64-31607 23-27

ELECTROSTATIC ACCELERATION OF LOW DENSITY PLASMA BY MOMENTUM TRANSFER THROUGH MAGNETIC FIELDS
N64-31608 23-27

PARTIALLY IONIZED ARGON ACCELERATION IN CHANNEL OF CONSTANT CROSS-SECTIONAL AREA WITH UNIFORM APPLIED TRANSVERSE MAGNETIC FIELD
MIT-33-P N64-31641 23-24

REDUCTION OF FOLD-OVER ERRORS IN FLUX-GATE MAGNETOMETERS
NASA-TN-D-2159 N64-31729 23-15

BEHAVIOR DETERMINATION OF FERROMAGNETIC MATERIALS IN MAGNETIC FIELD AND METHODS OF PRODUCING AND MEASURING MAGNETIC FIELDS
FTD-TT-63-531/1&2 N64-31801 23-25

FAST WAVE INTERACTION MECHANISMS BETWEEN MICROWAVE RADIATION AND PLASMA OR ELECTRON GAS IN UNIFORM MAGNETIC FIELD
AFCRL-64-445 N64-31987 23-24

MAGNETIC FIELD DEPENDENCE OF SPIN-LATTICE RELAXATION IN NEODYMIUM MAGNESIUM NITRATE
TR-6 N64-32000 23-25

RADIAL VELOCITIES IN FLOCCULI AND UNDISTURBED CHROMOSPHERE AND RELATION TO MAGNETIC FIELDS - MOTION OF IONIZED CALCIUM
AD-420769 N64-32078 23-28

SHAPE OF ELECTRIC ARC DISCHARGE ROTATED IN ANNULAR GAP BY EXTERNAL MAGNETIC FIELD
NASA-TN-D-2155 N64-32276 23-24

FORTRAN SUBROUTINE TO DETERMINE COMPONENTS OF EARTH MAGNETIC FIELD AS FUNCTION OF ALTITUDE AND GEOGRAPHIC COORDINATES FROM SPHERICAL HARMONIC EXPANSION
RRL PUBL.-220 N64-32368 23-12

MAGNETOATMOSPHERIC WAVES IN HORIZONTALLY STRATIFIED CONDUCTING MEDIUM
AGES-64-8 N64-32469 23-28

INTENSE-FIELD AIR-CORE CRYOGENIC MAGNET
NASA-CR-59054 N64-32488 23-10

DERIVATION OF CRITERIA FOR MAGNETIC BREAKDOWN IN SOLIDS VALID FOR ALL STRENGTHS OF MAGNETIC FIELD
TR-4 N64-32530 23-25

HYDROMAGNETIC INSTABILITY IN STELLARATOR
MATT-262 N64-32854 24-24

STATIC MAGNETIC FIELD EFFECTS ON CHARACTERISTICS OF HELIUM-NEON LASER
PIBMRI-1222-64 N64-33004 24-23

MEASUREMENTS OF MAGNETIC FIELD IN GEOMAGNETIC CAVITY AND INTERACTION REGION BETWEEN SOLAR WIND MAGNETOSPHERE BY PIONEER V SPACE PROBE
NASA-CR-58961 N64-33040 24-28

PARTICLE ORBITS IN HELIOTRON MAGNETIC FIELD - PLASMA CONFINEMENT IN CORRUGATED MAGNETIC FIELD
IPPJ-21 N64-33055 24-24

OBSERVATIONS ON SOLAR AND COSMIC RADIATION INTENSITY, PARTICLES AND PLASMA LAYER DISTRIBUTION, AND MAGNETIC FIELD VARIATIONS FROM MARS I SPACECRAFT
FTD-TT-64-237/1626364 N64-33221 24-29

SECULAR VARIATION OF TERRESTRIAL MAGNETIC FIELD IN BELGIUM, 1955 - 1960 N64-33256 24-12

PLASMA APPLICATIONS IN MICROWAVE CIRCUITS, WITH OR WITHOUT STATIC MAGNETIC FIELD
RADC-TDR-64-244 N64-33305 24-24

APPARATUS FOR PRODUCTION OF INTENSE TRANSIENT MAGNETIC FIELDS - PULSED FIELD UNIT
TN-5 N64-33320 24-09

AIRBORNE INSTRUMENT FOR ELECTRIC CONDUCTIVITY-VELOCITY MEASUREMENT USING STEADY APPLIED MAGNETIC FIELD
SSD-TDR-64-158 N64-33348 24-15

USE OF ANNIHILATION FOR SETTING IN MOTION PHOTON ROCKETS - NASCENT BEAM FOCUSING USING ELECTRIC AND MAGNETIC FIELDS
NASA-TT-F-8969 N64-33377 24-27

ENERGY SPECTRUM OF HYDROGEN PLASMA IN TRANSVERSE MAGNETIC FIELD
NASA-TT-F-8970 N64-33378 24-24

STATIONARY ROTATION OF RAREFIED GAS MASS GRAVITATING IN MAGNETIC FIELD
NASA-TT-F-8972 N64-33380 24-24

CONDUCTIVITY TENSOR DUE TO COULOMB INTERACTIONS IN STRONG MAGNETIC FIELD
ARL-63-90 N64-33444 24-24

INTENSIFICATION OF MAGNETIC FIELDS THROUGH PLASMA MOTION
NASA-TM-X-55076 N64-33632 24-24

ALFVEN WAVE PROPAGATION IN COLLISIONLESS PLASMA WITH EXTERNAL MAGNETIC FIELD
NASA-TM-X-55083 N64-33635 24-24

GAIN IN RUBY LASER CRYSTALS AS FUNCTION OF INHOMOGENEOUS MAGNETIC FIELD INTENSITY
NASA-CR-59313 N64-33805 24-25

INTERACTION OF PLASMOIDS WITH EXTERNAL MAGNETIC FIELDS
FTD-MT-64-32 N64-33827 24-24

CHARGED PARTICLE MOTION IN AN INHOMOGENEOUS MAGNETIC FIELD
GSP/PHYS/64-15 N64-33878 24-24

UNIFORM MAGNETIC FIELD SYNTHESIS ALONG AXIS OF COAXIAL COIL & SOLENOID SYSTEM
GSP/PHYS-64-10 N64-33884 24-23

CHROMOSPHERIC FLARE IDENTIFICATION BY SOLAR, GEOMAGNETIC, & IONOSPHERIC DATA AND GEOMETRY OF INTERPLANETARY MAGNETIC FIELD
NASA-TT-F-226 N64-34020 24-28

MAGNETIC INSTRUMENT
MAGNETIC FIELD TRIODE FOR THERMIONIC CONVERTERS
DVL-289 N64-13348 04-23

MINIATURE MAGNETIC MODULATOR MULTIPLEXER
N64-16165 08-08

SENSITIVE MAGNETIC BALANCE FOR DIRECT MEASUREMENT OF SKIN FRICTION DRAG
REPT.-0-71000/3R-29 N64-19298 12-15

MAGNETIC LOGICAL TRANSDUCERS
AL-TDR-64-22 N64-21666 15-09

MAGNETIC MATERIAL
MICROWAVE COMPONENTS AND TECHNIQUES - CHARACTERISTICS OF PLANAR HEXAGONAL MAGNETIC OXIDES
RADC-TDR-63-385 N64-12369 03-15

SURFACE EFFECTS AND MAGNETIC FIELDS OF MAGNETIC MATERIALS
ASD-TDR-63-424 N64-18569 11-18

MANGANESE-ALUMINUM ALLOYS FOR PERMANENT MAGNET MATERIAL
ASD-TDR-63-422 N64-18575 11-18

GEOPHYSICS & GEOLOGY - MAPPING & PROSPECTING FOR MAGNETIC MATERIALS
JPRS-24511 N64-20228 13-12

ELECTRICAL CONDUCTOR, ELECTRICAL INSULATION, BORE SEAL AND MAGNETIC MATERIALS FOR SPACE POWER SYSTEMS APPLICATION
NASA-CR-54089 N64-25010 17-17

MAGNETIC MEASUREMENT
SA ELECTROMAGNETIC MEASUREMENT
ANGULAR VARIATION OF COERCIVITY IN ORTHOFERRITE SINGLE CRYSTALS - HYSTERESIS CURVE RECORDING WITH VIBRATING SAMPLE MAGNETOMETER
TN-6 N64-31814 23-25

MAGNETIC METAL
BRUSHLESS ROTATING ELECTRICAL GENERATORS FOR SPACE AUXILIARY POWER SYSTEMS - MAGNETIC STEEL
NASA-CR-52916 N64-11742 03-18

MAGNETIC PROBE
CONSTRUCTION AND CALIBRATION TECHNIQUES OF HIGH FREQUENCY MAGNETIC PROBES
ATN-64/9231/-2 N64-12006 03-15

NONUNIFORM MAGNETIC FIELD MEASURED BY MAGNETOMETER USED AS MAGNETIC PROBE
FTD-TT-62-1874/1&2 N64-22145 15-15

MAGNETIC PROPERTY
SA HALL EFFECT
SA HYSTERESIS
SA INDUCTION
THEORETICAL INTERPRETATION OF MAGNETIC PROPERTIES OF RARE EARTH METALS - ROLE OF CONDUCTION ELECTRONS
AD-423382 N64-11764 03-27

ANISOTROPY OF MAGNETIC PROPERTIES OF METAL SINGLE CRYSTALS AT CRYOGENIC TEMPERATURES
FTD-TT-63-518/1&2 N64-12840 04-23

ELECTRICAL CONDUCTIVITY & MAGNETIC PROPERTIES OF ORGANIC COMPLEXES WITH CHARGE MIGRATION
E-T-R-63-3 N64-13114 04-07

ELECTRIC AND MAGNETIC PROPERTIES OF PYROLYTIC GRAPHITE
WADD-TR-61-72, VOL. 20 N64-15577 07-19

MEASUREMENT OF MAGNETIC PROPERTIES OF MAGNET WITH PERMEAMETER AND FLUXMETER
ASD-TDR-63-421 N64-18574 11-23

EFFECT OF UNSTEADY HEATING ON CHANGE OF MAGNETIC AND ELECTRIC PROPERTIES OF ALLOYS
N64-24533 17-18

MAGNETIC PROPERTIES OF COLOR CENTERS IN ALKALI HALIDE CRYSTALS
ONR-TR-7 N64-25895 18-07

CARBON CONTENT EFFECT ON MAGNETIC PERMEABILITY OF IRON-ALUMINUM ALLOYS AND HEAT TREATMENT EFFECTS ON MAGNETIC PROPERTIES OF ALLOYS
FTD-TT-63-2/1&2&4 N64-26723 18-18

DETERMINATION OF MAGNETIC PROPERTIES OF ELECTRONIC

COMPONENTS OF SPACECRAFTS
NASA-CR-56452 N64-27899 20-09

ANNOTATED BIBLIOGRAPHY ON NONMAGNETIC MATERIALS FOR USE IN SPACECRAFT N64-28211 20-25

MEASURING MAGNETIC PROPERTIES OF NONMAGNETIC MATERIALS IN LOW MAGNETIC FIELDS N64-28212 20-25

METAL WHISKERS - INDUCED GROWTH, GROWTH MECHANISM, ENERGY SOURCES FOR GROWTH, MAGNETIC PROPERTIES, AND RADIATION EFFECTS N64-28218 20-25

MAGNETIC PROPERTIES VS TEMPERATURE PROFILES FOR FERRIMAGNETIC MATERIALS
NRL-5935 N64-28872 20-25

HANDBOOK OF FORMULAS, SYMBOLS, CONVERSION TABLES, AND MEASURING APPARATUS FOR MAGNETIC PHENOMENA
NASA-CR-58591 N64-28892 20-23

MAGNETIC PROPERTIES OF SOLID INORGANIC COMPOUNDS IN FIELD OF INTENSE GAMMA RADIATION
FTD-TT-63-424/1&2&4 N64-29276 21-25

FIRST ORDER MAGNETIC PHASE TRANSITIONS - SPIN-FLOPPING
MC-62-49-R3 N64-29905 21-25

MOSSBAUER APPARATUS FOR MAGNETIC STUDIES OF FERRIC OXIDE, FERROUS OXIDE, KRYPTON, AND CLATHRATES
AD-602465 N64-30043 21-25

ELECTRICAL AND MAGNETIC PROPERTIES OF ALLOYS FOR FERROMAGNETIC SUPERCONDUCTORS
RADC-TDR-64-188 N64-30938 22-25

SILICON - ELECTRICAL, OPTICAL, AND MAGNETIC PROPERTIES
DS-137 N64-32106 23-25

MAGNETIC PROPERTIES OF RARE EARTH-IRON ALLOYS
GNE/PHYS/64-12 N64-33816 24-25

MAGNETIC RESONANCE
SA NUCLEAR MAGNETIC RESONANCE
SA PARAMAGNETIC RESONANCE
OPTICAL MASERS, SEPARATIONS CHEMISTRY, MAGNETIC RESONANCE STUDIES, TITRATION, & PRECIPITATION PROCESSES
JPRS-24552 N64-20657 13-01

MAGNETIC RESONANCE OF AROMATIC HYDROCARBON CARBONIUM IONS N64-20662 13-23

AVAILABILITY OF POLARIZED MUONS AND ABILITY TO DETECT SPIN DIRECTION - MAGNETIC RESONANCE EXPERIMENTS ON MUON N64-22482 15-23

X-BAND MAGNETIC RESONANCE PLASMA ACCELERATOR
AIAA PAPER-64-702 N64-28368 20-24

ELECTRON SPIN MAGNETIC RESONANCE IN FREE RADICALS PRODUCED BY GAMMA IRRADIATION OF HYDROCARBONS
NARF-63-4T N64-28905 20-07

MAGNETIC AND ELECTRIC FORCE STUDIES FOR ROTATING SHAFT SUSPENSION - ACTIVE-RADIAL SUPPORT AND MAGNETIC RESONANT SUPPORT SYSTEMS
EMI-3421-107-64U N64-31149 22-10

FLUCTUATIONS IN ANTIFERROMAGNETIC RESONANCE LINEWIDTH OF MANGANESE AND NICKEL FLUORIDES NEAR TRANSITION TEMPERATURE
TR-302 N64-32088 23-25

MAGNETIC SHIELDING
IMPROVING MAGNETIC SHIELDING OF SPACE VEHICLES AGAINST CHARGED-PARTICLE COSMIC RADIATION
ERR-FW-210 N64-12926 04-09

CESIUM BEAM OPTICS, C-FIELD HOMOGENEITY, MAGNETIC SHIELDING, AND MICROWAVE STRUCTURES
REPT.-1 N64-21518 15-23

EXPERIMENTAL GYROSCOPE - INDUCTION MOTORS, MAGNETIC SHIELDING, TEMPERATURE EFFECTS, FABRICATION OF PROTOTYPE, AND ELECTRON BEAM WELDING
NASA-CR-58499 N64-29201 21-15

ELECTROSTATIC AND MAGNETIC SHIELDING AGAINST SPACE RADIATION
RR-192 N64-32504 23-24

MAGNETIC STORM
SA GEOMAGNETIC STORM
INDICES OF SOLAR & GEOMAGNETIC ACTIVITY, VARIATION OF EARTH MAGNETIC FIELD IN TIME & SPACE, & FIELD VARIATION IN MAGNETIC STORM N64-11725 03-28

MAGNETIC STORM ENERGY FROM VISCOUS INTERACTION BETWEEN SOLAR WIND & EARTH MAGNETOSPHERE
NASA-CR-55341 N64-14287 06-28

THEORIES OF POLAR MAGNETIC DISTURBANCES
FTD-MT-63-48/1&2&3&4 N64-14828 06-12

MAGNETIC DISTURBANCES IN LUNAR SELENOMAGNETIC AND GEOMAGNETIC STORMS - PLASMA WAVE STUDY
NASA-CR-55433 N64-14841 06-29

PROBLEM OF ARCTIC COMMUNICATION DURING POLAR RADIO BLACKOUT DUE TO INTENSE MAGNETIC STORMS N64-15444 07-08

STRUCTURAL CHANGES IN OUTER RADIATION BELT CAUSED BY MAGNETIC STORMS - EXPLORER XII DATA N64-15700 07-28

THEORY OF MAGNETIC STORMS AND AURORA POLARIS N64-20753 14-12

MAGNETIC DISTURBANCES AT HIGH ALTITUDE
NASA-TT-F-9017 N64-23132 16-12

RAPID RUN INDUCTION TELLURIGRAMS, MAGNETOGRAMS, AND OBSERVATIONS OF MAGNETIC STORMS, SUDDEN IMPULSE, SOLAR FLARES, AND PULSATION
REPT.-3 N64-23904 16-12

COSMIC RADIATION, SOLAR CORPUSCULAR STREAMS, AND MAGNETIC STORMS
NASA-TT-F-127 N64-24422 17-28

ENERGY SPECTRA OF COSMIC RAY VARIATIONS DURING MAGNETIC STORMS N64-24424 17-28

COSMIC RAY EFFECTS PRIOR TO MAGNETIC STORMS N64-24425 17-28

DECREASE OF COSMIC RAY INTENSITY PRIOR TO MAGNETIC STORM WITH FORBUSH EFFECT N64-24428 17-28

VARIATIONS IN COSMIC RAYS DURING MAGNETIC STORM OF MID-MAY 1959 N64-24429 17-28

THREE SUPERIMPOSED FORBUSH EFFECTS IN JULY 1959 MAGNETIC STORMS N64-24430 17-28

SPURIOUS DIURNAL VARIATIONS AND ANISOTROPY OF COSMIC RAYS DURING MAGNETIC STORMS N64-24445 17-28

IONIZATION GRADIENT INCREASE IN MAGNETOSPHERE DURING MAGNETIC STORMS
NASA-TT-F-8926 N64-26712 18-12

SATELLITE OBSERVATIONS OF GEOMAGNETIC FIELD DURING MAGNETIC STORMS - EXPLORER VI DATA
NASA-RP-295 N64-28355 20-29

MAGNETIC SUSCEPTIBILITY
K-ABSORPTION SPECTRA AND MAGNETIC SUSCEPTIBILITY OF CHROMIUM COMPOUNDS N64-10672 02-19

DIAMAGNETIC SUSCEPTIBILITY OF GRAPHITE
WADD-TR-61-72, VOL. 39 N64-15580 07-19

MAGNETIC SUSCEPTIBILITY OF POWDERED MANGANESE FORMATE AT TEMPERATURES BETWEEN 0.4 AND 20 DEG K.
TR-18 N64-15591 07-23

LINEAR CORRELATION OF MAGNETIC SUSCEPTIBILITY WITH CHEMICAL COMPOSITION OF MINERALS
BM-RI-6379 N64-16016 07-19

PHYSICAL PROPERTIES AND MAGNETIC SUSCEPTIBILITIES OF TANTALUM COMPOUNDS /ORTHOTANTALATES/ OF LANTHANUM, SAMARIUM, AND EUROPIUM
FTD-TT-64-321/1&4 N64-25471 17-19

LOW TEMPERATURE MAGNETIC SUSCEPTIBILITY OF HYDRATED NICKEL NITRATES
TR-19 N64-25509 17-23

MAGNETIC SUSCEPTIBILITY OF FERROUS CHLORIDE TETRAHYDRATE AT LIQUID HELIUM TEMPERATURE
TR-20 N64-25656 17-23

LOW TEMPERATURE MAGNETIC SUSCEPTIBILITY OF MANGANESE FORMATE DIHYDRATE
TR-23 N64-29677 21-25

COLLISIONS IN GASES, MAGNETIC SUSCEPTIBILITY OF BERYLLIUM, REACTIONS OF ALLYLIC ALCOHOLS, ACTIVITY COEFFICIENTS, BIOLOGICAL EFFECTS OF RADIATION, AND ECOLOGY OF DRAINAGE AREA
NASA-CR-58839 N64-33048 24-07

NONLINEARITY OF MAGNETIC SUSCEPTIBILITY IN WEAK FERROMAGNETS AND ANTIFERROMAGNETS
TM-7 N64-33338 24-25

MAGNETIC SUSPENSION
MAGNETIC SUSPENSION AND BALANCE SYSTEM FOR STATIC AND DYNAMIC WIND TUNNEL TESTING
ARL-63-226 N64-14659 06-15

WIND-TUNNEL BALANCE UTILIZING MAGNETIC SUSPENSION
AST-3420-105-640 N64-18916 11-23

DESIGN OF SERVOMAGNETIC SUPPORT BEARING FOR ROTATING MACHINERY - REDUCTION OF FLEXURAL VIBRATION
EMI-3421-105-64U N64-20389 13-17

MAGNETIC SUSPENSION AND BALANCE SYSTEM FOR WIND TUNNELS
ARL-64-36 N64-20446 13-10

MAGNETIC SUSPENSION AND BALANCE SYSTEMS FOR WIND TUNNELS
ARL-63-235 N64-24384 17-10

MAGNETIC AND ELECTRIC FORCES FOR ROTATING SHAFT SUSPENSION - DAMPING
EMI-3421-111-64U N64-30122 21-17

MAGNETIC AND ELECTRIC FORCES FOR ROTATING SHAFT SUSPENSION - RADIALLY ACTIVE BEARING
EMI-4454-114-63U N64-30904 22-17

SUPERCONDUCTING, MAGNETICALLY SUPPORTED, SPINNING ROTOR
NASA-CR-108 N64-31204 22-25

MAGNETIC TAPE
CF DATA STORAGE
SYSTEM FOR MAGNETIC TAPE STORAGE AND RETRIEVAL OF NUMERICAL DATA - SHLOG PROGRAM FOR PHILCO-2000
WAPD-TM-370 N64-10990 02-20

MAGNETIC TAPE UNIT FOR FERRANTI MERCURY COMPUTER TO PERMIT READING AND WRITING TO IBM MAGNETIC TAPE SPECIFICATIONS
CERN-63-32 N64-13050 04-09

MAGNETIC TAPE FOR SATURN LAUNCH VEHICLE GROUND STATION COMPUTER SYSTEM
NASA-CR-52633 N64-13065 04-09

MAGNETIC TAPE SYSTEM FOR EPHEMERIDES OF MOON AND PLANETS
NASA-CR-53218 N64-17223 09-05

WIDEBAND MAGNETIC TAPE RECORDING TECHNIQUES
TOR-269/9990/-1 N64-17367 09-23

UTILIZATION OF HISTORY TAPE AND TAPE LIBRARY PROCEDURES OF ALTERNATE EXECUTIVE ROUTINE FOR MINIVAR COMPUTER PROGRAM N64-18238 10-20

X-RAY TELEVISION AND SCAN-CONVERSION IMAGE STORAGE SYSTEMS FOR STORAGE OF VIDEO SIGNALS ON MAGNETIC TAPES - TESTING ROCKET MOTOR CASES
WAL-TR-142.5/2-4 N64-18612 11-17

MAGNETIC TAPE DATA STORAGE SYSTEM FOR ACCURATE OPERATION IN HIGH INTENSITY RADIATION
RTD-TDR-63-3104 N64-21118 14-08

EPHEMERIS MAGNETIC TAPES INCLUDING LOCATIONS, SPEEDS, & NUTATIONS OF MOON & PLANETS
NASA-CR-56285 N64-23950 16-29

MAGNETIC TAPE-DRIVE UNIT FOR DIGITAL COMPUTER
JPRS-26496 N64-29756 21-09

FLIGHT MISSION DATA RECORDING IN BINARY CODE ON MAGNETIC TAPE OR PUNCHED PAPER TAPE
N64-30536 22-16

SERIAL AND PARALLEL FILE STRUCTURES WITH MAGNETIC TAPE AND DISK STORAGE FOR COMMAND AND CONTROL DATA PROCESSING SYSTEMS
ESD-TDR-64-519 N64-30970 22-20

FORTRAN PROGRAM SUMX - DATA SUMMARIZATION AND DISPLAY CONSTRUCTION FROM RECORDED INFORMATION ON MAGNETIC TAPE
UCRL-11222 N64-33147 24-20

MAGNETIC VARIATION
MAGNETIC VARIATIONS IN RUSSIAN ARCTIC AND REGIONAL GEOLOGY OF UST-YENISEY DEPRESSION
JPRS-21348 N64-10296 01-12

MAGNETOMETER FOR OBSERVING MAGNETIC VARIATIONS CORRESPONDING TO HIGH-ALTITUDE NUCLEAR TESTS
AFCRL-63-939/3/ N64-15055 07-15

MAGNETIC FIELD VARIATIONS IN EARTH-IONOSPHERE RESONANT CAVITY N64-19706 12-12

VARIATION OF PERIODICITY OF MAGNETIC STRUCTURE WITH DILUTION AND TEMPERATURE FOR HEAVY RARE-EARTH METALS
AFCRL-64-199 N64-21713 15-25

SPORADIC IONOSPHERIC E-LAYER EFFECT ON DAILY VARIATIONS OF GEOMAGNETIC FIELD
NASA-TT-F-8902 N64-25286 17-12

MORPHOLOGY OF VISIBLE AURORA AND ITS RELATION TO MAGNETIC VARIATIONS AND COSMIC NOISE ABSORPTION
AFCRL-64-570 N64-26911 18-12

MAGNETIC OBSERVATORIES FOR USE DURING INTERNATIONAL QUIET SUN YEAR /IQSY/
NASA-TM-X-55017 N64-27257 19-12

SOLAR INDUCED MAGNETIC VARIATIONS, TELLURIC CURRENTS, IONOSPHERIC ABSORPTION, VISIBLE AURORAS, AND X-RAYS
UAG-R146, PT. 2 N64-27538 19-12

MAGNETISM
SA AEROMAGNETISM
SA ELECTROMAGNETISM
SA FERRIMAGNETISM
SA FERROMAGNETISM
SA GALVANOMAGNETISM
SA GEOMAGNETISM
SA HYDROMAGNETISM
SA PARAMAGNETISM
RELATIONSHIPS OF COERCIVE FORCES OF MAGNETICALLY-SOFT MATERIALS TO THE THICKNESS OF SHEET MADE FROM ROLLED POWDERS N64-11526 03-18

EFFECTIVE ELECTRIC POLARIZABILITIES OF METASTABLE ARGON IN SELECTED MAGNETIC SUBSTATES
AD-424934 N64-12831 04-23

SOLID STATE PHYSICS RESEARCH - LASERS, SEEBECK COEFFICIENT, MATERIALS, SPECTROSCOPY, & MAGNETISM AND RESONANCE
ESD-TDR-63-584 N64-16868 08-25

PLASMA PHYSICS, ELECTRON-CYCLOTRON HEATING, CROSS-SECTION MEASUREMENTS, ION AND ATOMIC BEAMS, MAGNETICS AND SUPERCONDUCTIVITY, & VACUUM SYSTEMS
ORNL-3652 N64-25293 17-23

MAGNETIC AIR BRAKE FOR TEST OF GAS MICROTURBINES
FTD-MT-63-293 N64-26731 18-17

ORDERED MAGNETISM IN SOLIDS
TN-3 N64-29616 21-25

SEPARATION OF MAGNETIC CONTRIBUTION FROM TOTAL SPECIFIC HEAT OF ALPHA MANGANESE
AMRA-TR-64-07 N64-29805 21-18

LIFETIME OF NONEQUILIBRIUM CARRIERS IN MAGNETIC TRAPS
DI-82-0340 N64-30041 21-24

MAGNETITE
UPGRADING OF ARTIFICIAL MAGNETITE CONCENTRATES BY FLOTATION
BM-RI-6349 N64-15177 07-17

MAGNETIZATION
SA BARKHAUSEN EFFECT
MAGNETIZED BODY HYPERSONIC FLOW EQUATIONS NEAR STAGNATION POINT
RM-3970-PR N64-15360 07-24

FORTRAN III /IBM 7090 COMPUTER/ PROGRAM FOR THREE-SUBLATTICE MAGNETIZATION CALCULATIONS
NOLTR-63-32 N64-18589 11-20

MAGNETOSTATIC MODES FOR MEASURING SATURATION MAGNETIZATION OF PURE AND GALLIUM SUBSTITUTED YTTRIUM-IRON GARNET
AFCRL-64-49 N64-18943 11-23

VIBRATING SAMPLE MAGNETOMETER CAPABLE OF MEASURING SMALL SAMPLE MAGNETIZATION AS FUNCTION OF TEMPERATURE
AFCRL-64-13 N64-19139 11-15

COSMIC RAY VARIATIONS CAUSED BY EXPANDING TURBULENT MAGNETIZED CLOUD N64-24433 17-28

MINERALOGY - REMANENT MAGNETIZATION OF ANOMALOUS AND STABLE LAVA FLOWS
AFCRL-64-97/1/ N64-27440 19-12

SPONTANEOUS MAGNETIZATION IN IDEALIZED FERROMAGNETS
TR-19 N64-29544 21-25

MAGNETIZED PLASMAS - DEVELOPMENT OF DISTURBANCES AND SHOCK FORMATION, WAVE PROPAGATION, AND RADIATION IN TOROIDAL DISCHARGES
PIBMRI-1224-64 N64-29971 21-24

INFLUENCE OF TEMPERATURE AND MAGNETIZATION IN SELECTIVE ABSORPTION AND FLUORESCENCE SPECTRA
E-T-G-63-7 N64-32132 23-25

SPONTANEOUS MAGNETIZATION OF ORTHOFERRITES AT CRYOGENIC TEMPERATURES
TN-8 N64-32198 23-25

MAGNETOACOUSTIC WAVE
MAGNETOACOUSTIC INFORMATION STORAGE SYSTEM
NASA-CR-45 N64-22015 15-08

MAGNETOELASTIC WAVE
TORSIONAL MAGNETOELASTIC WAVES IN CIRCULAR CYLINDER IN MAGNETIC FIELD WITH & WITHOUT STEADY ELECTRIC FIELD
E-118.3 N64-14027 05-23

MAGNETOGASDYNAMICS
CURRENT PASSAGE THROUGH A PLASMA DIODE WITH HEATED CATHODE FOR MAGNETOGASDYNAMIC ENERGY CONVERSION
JPRS-19408 N64-10821 02-24

MODEL FOR DIFFUSIVE MAGNETOTHERMOELECTRIC GENERATOR
AD-421931 N64-12974 04-15

THEORY OF MAGNETOGASDYNAMIC GENERATOR
FTD-TT-62-1181/1&264 N64-16392 08-24

HALL POTENTIALS AND FLOW FIELD PERTURBATIONS IN MAGNETOGASDYNAMIC FLOW OF AXISYMMETRIC FREE JET
AS-64-1 N64-17527 09-24

LARGE-SIGNAL BEHAVIOR OF PARAMETRIC MAGNETOGASDYNAMIC GENERATOR
RTD-TDR-63-4132 N64-20101 13-24

SUPERSONIC AIRCRAFT, MANNED SPACE FLIGHT SIMULATION, ELECTRONIC COMPUTERS, AND MAGNETOPLASMADYNAMICS RESEARCH N64-22417 15-29

MATHEMATICAL EQUATIONS FOR TWO-DIMENSIONAL STATIONARY COMPRESSIBLE FLOWS PAST CYLINDER - MAGNETOGASDYNAMICS
SR-8 N64-22971 16-24

GRAPHIC INTERPRETATION OF MAGNETOGASDYNAMIC FLOW PATTERNS
SR-10 N64-23222 16-24

MAGNETOGASDYNAMIC ROCKET FOR SPACE PROPULSION
NASA-CR-54040 N64-26583 18-27

STRETCHED ELASTIC SHEET ANALOG TO MAGNETIC FIELD FOR STUDY OF MAGNETOGASDYNAMIC FLOW
AD-437750 N64-26681 18-24

MOTION EQUATIONS FOR HYPERSONIC FLOW OF MAGNETOGASDYNAMIC MEDIUM
DVL-347 N64-27221 19-11

DYNAMIC BEHAVIOR OF FLUID CONSISTING OF ELECTRICALLY CHARGED PARTICLES HAVING SPIN - MAGNETOGASDYNAMICS
NASA-TM-X-55001 N64-28757 20-24

RESEARCH IN PLASMA PHYSICS AND MAGNETOGASDYNAMICS
NASA-CR-56944 N64-28921 20-24

PLANE GAS DYNAMIC AND TRANSVERSE MAGNETOGASDYNAMIC SHOCK WAVE IN FULLY IONIZED HYDROGEN
NASA-CR-58338 N64-28940 20-24

MAGNETOPLASMADYNAMIC POWER GENERATOR
IRD-64-36, PT. 1 N64-30427 22-24

ENERGY CONVERSION THROUGH MAGNETOPLASMADYNAMICS N64-30428 22-24

CLOSED LOOP FOR MAGNETOPLASMADYNAMIC POWER GENERATOR N64-30429 22-10

HIGH TEMPERATURE GAS CIRCULATION IN MAGNETOPLASMADYNAMIC LOOPS N64-30430 22-10

POWER GENERATION WITH MAGNETOPLASMADYNAMIC GENERATOR LOOP N64-30431 22-10

POWER GENERATION WITH MAGNETOPLASMADYNAMIC GENERATOR LOOP N64-30432 22-24

HIGH TEMPERATURE HEATER FOR MAGNETOPLASMADYNAMIC LOOP N64-30433 22-10

PURIFICATION OF HELIUM FOR MAGNETOPLASMADYNAMIC LOOP N64-30434 22-10

CESIUM INJECTION INTO AND RECOVERY FROM MAGNETOPLASMADYNAMIC LOOP N64-30435 22-10

MAGNETOPLASMADYNAMIC GENERATOR TEST LOOP AND ALUMINUM OXIDE DUCT N64-30436 22-10

INSTRUMENTATION FOR PHYSICAL MEASUREMENTS IN MAGNETOPLASMADYNAMIC CLOSED LOOP N64-30437 22-15

MATERIAL FAILURES IN ULTRAHIGH TEMPERATURE MAGNETOPLASMADYNAMIC LOOP N64-30438 22-18

COMPATIBILITY OF MAGNETOPLASMADYNAMIC GENERATOR REFRACTORY MATERIALS WITH CESIUM VAPOR N64-30439 22-17

HIGH TEMPERATURE MAGNETOGASDYNAMICS, GAS DYNAMICS OF REAL AND CHEMICALLY REACTING GASES, AND DYNAMICS OF RAREFIED GASES
AD-601730 N64-31100 22-24

ONE-DIMENSIONAL UNSTEADY MAGNETOGASDYNAMIC FLOW
SR-9 N64-31316 22-24

ONE-DIMENSIONAL UNSTEADY POTENTIAL FLOW IN MAGNETOGASDYNAMICS N64-32341 23-24

MAGNETOGASDYNAMIC EFFECTS IN FLOW BEHIND SPHERE
BSD-TDR-64-107 N64-32665 23-24

DIRECT ENERGY CONVERSION SYSTEMS - FUEL CELLS, MAGNETOGASDYNAMICS, THERMOELECTRICITY
AD-406355 N64-32867 24-24

MAGNETOGASDYNAMIC, FUEL CELL, AND THERMOELECTRIC ENERGY CONVERSION
AD-423164 N64-32963 24-24

MAGNETOGASDYNAMIC ENERGY CONVERSION IN COMBUSTION GAS GENERATOR AND SHOCK TUBE, AND ELECTROCHEMICAL RESEARCH ON FUEL CELLS
AD-430023 N64-32964 24-24

SUSTAINED POWER GENERATION IN MAGNETOGASDYNAMIC GENERATOR USING NONEQUILIBRIUM TECHNIQUES
NASA-CR-59276 N64-33327 24-10

MAGNETOHYDRODYNAMIC ACCELERATION
THRUST MEASUREMENT FOR ELECTRODELESS MAGNETO-HYDRODYNAMIC ACCELERATORS N64-13497 05-27

MAGNETOHYDRODYNAMIC HYPERVELOCITY ACCELERATOR N64-13518 05-23

CONSTANT ENTHALPY MAGNETOHYDRODYNAMIC ACCELERATOR - CLOSED FORM SOLUTION OF ONE-DIMENSIONAL INVISCID EQUATIONS OF MOTION
SSD-TDR-63-270 N64-14173 06-24

WIND-TUNNEL TEST FACILITY USING MHD ACCELERATOR
SSD-TDR-63-317 N64-14497 06-24

MINIMUM LENGTH CROSSED-FIELD MHD ACCELERATOR WITH CONSTANT ENTHALPY, MAGNETIC FIELD, & ELECTRIC CONDUCTIVITY
SSD-TDR-63-338 N64-14498 06-24

HYPERVELOCITY WIND TUNNEL WITH MAGNETOHYDRODYNAMIC ACCELERATOR
SSD-TDR-64-11 N64-17900 10-24

RAIL-TYPE MAGNETOHYDRODYNAMIC ACCELERATOR - FEASIBILITY STUDY FOR HYPERVELOCITY GUN
NASA-CR-54028 N64-20723 13-23

ARC HEATERS AND MAGNETOHYDRODYNAMIC ACCELERATORS FOR AERODYNAMIC PURPOSES
AGARDOGRAPH-84, SUPPL. N64-29122 21-24

ESTIMATES OF MAGNETOHYDRODYNAMIC ACCELERATOR PERFORMANCE LIMITATIONS N64-29123 21-24

STEADY FLOW ACCELERATOR FOR WIND TUNNELS N64-29124 21-24

MAGNETOHYDRODYNAMIC ACCELERATORS AND GENERATORS N64-29125 21-24

MAGNETOHYDRODYNAMIC FLOW
LAMINAR MAGNETOHYDRODYNAMIC BOUNDARY LAYER AND HEAT TRANSFER IN FLOW AROUND CIRCULAR CYLINDER
NASA-CR-52978 N64-12024 03-23

CHARGED PARTICLE ACCELERATION IN PERPENDICULAR MAGNETOHYDRODYNAMIC SHOCK WAVE
AFOSR-2249 N64-12075 03-23

COMPUTER PROGRAM FOR ANALYSIS OF ONE-DIMENSIONAL MAGNETOHYDRODYNAMIC CHANNEL FLOW
AEDC-TDR-63-215 N64-14638 06-20

INDUCTION-COUPLED LIQUID METAL MAGNETOHYDRODYNAMIC CHANNEL FLOW N64-17903 10-24

STABILITY OF MAGNETOHYDRODYNAMIC CHANNEL FLOW WITH ALIGNED MAGNETIC FIELD
FLIGHT SCI. LAB. REPT.-88 N64-19170 11-24

SHOCK WAVES IN TWO-DIMENSIONAL MAGNETOHYDRODYNAMIC FLOW OF INVISCID, COMPRESSIBLE GAS
MF-38 N64-19300 12-24

MAGNETOHYDRODYNAMIC CHANNEL FLOWS - GENERALIZED HARTMANN FLOW, LAMINAR FLOW IN PIPES, UNSTEADY FLOW, AND TURBULENT FLOW
ARL-63-175 N64-27465 19-24

PULSATING MAGNETOHYDRODYNAMIC FLOW SUPERPOSED ON STEADY LAMINAR FLOW OF INCOMPRESSIBLE VISCOUS FLUID IN ANNULAR CHANNEL
MRC-379 N64-29030 21-24

TRANSIENT MAGNETOHYDRODYNAMIC FLOW IN ANNULAR CHANNELS
MRC-381 N64-29912 21-24

MAGNETOHYDRODYNAMIC INTERACTIONS IN SHOCK TUNNEL FLOW
NASA-CR-58823 N64-30509 22-24

MAGNETOHYDRODYNAMIC ARC THRUSTER - JET VELOCITY AND MASS FLOW RATE
AEDC-TDR-64-182 N64-31068 22-24

AXISYMMETRIC, ALIGNED MAGNETOHYDRODYNAMIC VISCOUS FLOWS ABOUT MAGNETIZED SPHERICAL BODIES
CM-1047 N64-32273 23-24

MAGNETOHYDRODYNAMIC GENERATOR
SA PLASMA GENERATOR
OPTIMIZING OPERATION OF MAGNETOHYDRODYNAMIC GENERATORS
JPRS-17821 N64-10568 01-24

MAGNETOHYDRODYNAMIC POWER GENERATOR WITH SUPERSONIC ROCKET EXHAUST AS WORKING FLUID
NAVWEPS-8111 N64-11539 03-27

MAGNETOHYDRODYNAMIC POWER GENERATOR - THERMALLY REGENERATIVE ELECTROCHEMICAL CELLS
ANL-6808 N64-12166 03-23

POWER OUTPUT OPTIMIZATION OF MAGNETOHYDRODYNAMIC GENERATORS WITH ARBITRARY PLASMA CONDUCTIVITY
NASA-CR-55183 N64-13400 04-24

LARGE SUPERCONDUCTING MAGNETS FOR MAGNETOHYDRO-DYNAMIC GENERATORS FOR SPACE POWER GENERATION
RTD-TDR-63-4170 N64-13657 05-24

TURBULENT VORTEX FLOW, OPERATING CHARACTERISTICS & PERFORMANCE OF VORTEX MAGNETOHYDRODYNAMIC GENERATOR
NASA CR-55310 N64-13917 05-24

CLOSED LOOP MAGNETOHYDRODYNAMIC GENERATOR
ASD-TDR-63-4019 N64-14119 05-24

EFFECT OF ELECTRON-ION COLLISIONS & HIGH ELECTRON TEMPERATURE ON CONDUCTIVITY & POWER DENSITY IN MAGNETOHYDRODYNAMIC GENERATORS
NASA-TN-D-2118 N64-15197 07-24

COMPRESSIBLE FLOW EQUATIONS FOR MAGNETOHYDRO-DYNAMIC POWER GENERATOR
R64SD5 N64-16463 08-24

VORTEX MAGNETOHYDRODYNAMIC GENERATOR DEVELOPMENT
NASA-CR-55830 N64-16707 08-24

EFFECT OF ELECTRODE NONUNIFORMITIES ALONG MAGNETIC FIELD IN MAGNETOHYDRODYNAMIC GENERATORS
AVCO-EVERETT RES. REPT.-176 N64-16866 08-24

MAGNETOHYDRODYNAMIC GENERATOR TESTS OVER WIDE RANGE OF OPERATING CONDITIONS
AVCO-EVERETT RES. REPT.-174 N64-17787 09-24

LIQUID METAL MAGNETOHYDRODYNAMIC GENERATOR N64-17902 10-06

LIQUID METAL MAGNETOHYDRODYNAMIC GENERATOR
ASD-TDR-63-700 N64-18036 10-24

GAS AND PLASMA DYNAMICS RELATED TO NUCLEAR FUSION AND MAGNETOHYDRODYNAMIC POWER GENERATION - SQUID PROJECT N64-18855 11-24

SEGMENTED ELECTRODE LOSSES IN MAGNETOHYDRODYNAMIC GENERATOR WITH NONEQUILIBRIUM IONIZATION
RR-178 N64-19729 12-24

ENERGY CONVERSION - MAGNETOHYDRODYNAMIC POWER GENERATION N64-19841 12-06

ENERGY CONVERSION BY LIQUID METALS & ALKALI METALS IN MAGNETOHYDRODYNAMIC GENERATORS AND THERMIONIC ENERGY CONVERSION
AD-436857 N64-20159 13-06

MAGNETOHYDRODYNAMIC GENERATOR & CLOSED LOOP SYSTEM TESTS
AD-428194 N64-20612 13-24

VORTEX MAGNETOHYDRODYNAMIC POWER GENERATOR
NASA-CR-56081 N64-20646 13-24

NONEQUILIBRIUM IONIZATION FOR MAGNETOHYDRODYNAMIC ENERGY CONVERSION
QR-8 N64-21494 14-24

ASYNCHRONOUS MAGNETOHYDRODYNAMIC GENERATOR WITH CONDUCTING GAS FLOW IN ROTATING FIELD
FTD-TT-62-1797/1&2&4 N64-22402 15-23

SEED RECOVERY AND CORROSION IN COAL FIRED MAGNETOHYDRODYNAMIC POWERPLANT
AVCO-EVERETT RES. REPT.-182 N64-25016 17-24

NONEQUILIBRIUM IONIZATION IN MAGNETOPLASMADYNAMIC ELECTRIC POWER GENERATOR
MND-3141 N64-25814 17-24

GAS TURBINE AND MAGNETOHYDRODYNAMIC GENERATOR FOR ENERGY AND HIGH ENERGY PULSE GENERATION
N64-27114 19-06

MAGNETOHYDRODYNAMIC ACCELERATORS AND GENERATORS
N64-29125 21-24

SELF-EXCITATION CHARACTERISTICS OF MARK V MAGNETOHYDRODYNAMIC GENERATOR
AD-443597 N64-30472 22-24

MAGNETOHYDRODYNAMIC POWER GENERATION FOR PLASMA PROPULSION N64-31611 23-06

PRODUCTION OF HIGH ENERGY, SHORT DURATION PULSES OF ELECTRICAL POWER BY MAGNETOHYDRODYNAMIC GENERATOR
MHD-655 N64-32069 23-24

MAGNETOHYDRODYNAMICS - MAGNETICALLY INDUCED IONIZATION IN POWER GENERATOR AND BARIUM DIODES
SAR-2 N64-32153 23-24

SELF-EXCITATION OF MAGNETOHYDRODYNAMIC INDUCTION GENERATOR
DVL-319 N64-32348 23-24

MAGNETOHYDRODYNAMIC-INDUCTION GENERATOR OF INFINITE LENGTH FOR FLAT AND CYLINDER SYMMETRIC GEOMETRY
DVL-316 N64-32349 23-24

ELECTRIC POWER GENERATION FOR SPACE VEHICLES - BATTERIES, SOLAR CELLS, THERMOELECTRIC CONVERTERS, MAGNETOHYDRODYNAMIC CONVERTERS, FUEL CELLS, AND THERMIONIC CONVERTERS N64-32770 24-06

PERFORMANCE CHARACTERISTICS OF LIQUID METAL MAGNETOHYDRODYNAMIC GENERATOR
ANL-6870 N64-33236 24-24

EXPLOSIVE DRIVEN MAGNETOHYDRODYNAMIC GENERATOR FOR ELECTRIC POWER CONVERSION
MB-R-63197 N64-33357 24-06

MAGNETOHYDRODYNAMIC SHEAR HEATING
TEMPERATURE FIELD INDUCED BY HEAT ENERGY RELEASED THROUGH TANGENTIAL BREAK IN MAGNETOHYDRODYNAMICS
N64-28488 20-13

MAGNETOHYDRODYNAMIC TURBULENCE
MAGNETOHYDRODYNAMIC TURBULENCE IN UNIFORM MAGNETIC FIELD
NASA-RP-86 N64-11255 02-24

MODEL FOR PRODUCTION OF SMALL EDDIES FROM LARGE ONES IN MAGNETIC FIELD - MAGNETOHYDRODYNAMIC TURBULENCE
MRC-420 N64-12332 03-23

MAGNETOHYDRODYNAMIC WAVE
MAGNETIC FIELD ANNIHILATION RATE AT BOUNDARY BETWEEN PLASMA REGIONS WITH OPPOSING FIELD LINES - SOLAR FLARE MECHANISMS & MAGNETOHYDRODYNAMIC WAVES
AMP-123 N64-14318 06-28

MAGNETOHYDRODYNAMIC WAVE PROPAGATION AND BOUNDARY VALUE PROBLEMS IN LOWER IONOSPHERE
ARA-T-9197-12 N64-16837 08-12

COUPLING OF MAGNETOHYDRODYNAMIC WAVES TO ELECTROMAGNETIC & ACOUSTIC WAVES AT PLASMA-NEUTRAL GAS INTERFACE
AFCRL-63-944 N64-17450 09-24

NONLINEAR DISTORTION OF PERIODIC MAGNETOHYDRODYNAMIC WAVES
ARL-63-196 N64-31236 22-24

DAMPING AND POLARIZATION OF PLANE MAGNETOHYDRODYNAMIC WAVES
ARL-63-195 N64-31272 22-24

MAGNETOHYDRODYNAMICS
SA PLASMA DYNAMICS
CF ALFVEN WAVE
CF FLUID MECHANICS
CF HYDROMAGNETISM
CF PLASMA PHYSICS
MAGNETOHYDRODYNAMIC COAXIAL PLASMA GUN PROPULSION - IMPULSE DISCHARGE, CURRENT DISTRIBUTION & PLASMA VELOCITY
NASA-CR-52338 N64-10180 01-24

MAGNETOFLUID DYNAMICS AS BRANCH OF FLUID DYNAMICS
ARL-63-175, PT. 1 N64-12684 04-26

MAGNETOHYDRODYNAMICS OF PARTIALLY IONIZED GASES - SQUID PROJECT N64-13491 05-24

MAGNETOHYDRODYNAMICS IN PRESENCE OF ANISOTROPIC CONDUCTIVITY
FTD-MT-63-7/1&2&3&4 N64-14374 06-24

AIR, NITROGEN, AND HYDROGEN GAS-SIDE CONVECTIVE HEAT TRANSFER TO NUCLEAR ROCKET NOZZLES USING SHOCK TUBE TECHNIQUES
NASA-CR-55712 N64-15893 07-13

IONOSPHERE AND LABORATORY GENERATED PLASMA WAVE PROPAGATION - MAGNETOHYDRODYNAMICS
AFCRL-63-782, VOL. 2 N64-16064 07-24

PROPAGATION AND DETECTION OF ALFVEN WAVES - MAGNETOHYDRODYNAMICS
AFCRL-63-782, VOL. 3 N64-16065 07-24

MAGNETOHYDRODYNAMICS
FTD-TT-63-207/1&2 N64-16417 08-28

MAGNETOHYDRODYNAMIC PHENOMENA N64-16686 08-24

MAGNETOHYDRODYNAMICS, ELECTRON & ION EMISSION FROM TUNGSTEN FILAMENT, AND ION PENETRATION THROUGH IONIC DIPOLE LAYER AT ELECTRODE SURFACE
N64-17901 10-23

MAGNETOHYDRODYNAMICS OF PARTIALLY IONIZED GASES - PROPULSION AND POWER GENERATION - SQUID PROJECT
N64-18865 11-24

PROBLEMS OF MAGNETOHYDRODYNAMICS AND PLASMA PHYSICS
FTD-TT-62-1301/1&2 N64-19048 11-24

GEOMETRIC METHOD FOR PLOTTING DIVERGENT SHOCK WAVES IN MAGNETOHYDRODYNAMICS
FTD-TT-63-198/1&2&4 N64-19196 11-24

METHODS & INSTRUMENTATION FOR DIRECT ENERGY CONVERSION - THERMIONICS, MAGNETOHYDRODYNAMICS, AND THERMOELECTRICITY N64-19376 12-06

DIRECT ENERGY CONVERSION TECHNOLOGY - SOLAR CELLS, MAGNETOHYDRODYNAMICS, BATTERIES, AND THERMIONICS
N64-19377 12-06

POWER CONVERSION BY MAGNETOHYDRODYNAMIC ELECTRIC POWER GENERATION N64-19385 12-24

DESCRIPTION OF HYPERSONIC SHOCK TUNNEL AND EXPERIMENTAL AND THEORETICAL PROGRAMS IN MAGNETOHYDRODYNAMICS
ARL-64-5 N64-19735 12-24

LONG LIFE CLOSED LOOP MAGNETOHYDRODYNAMIC APPARATUS
AD-432464 N64-21341 14-10

FIELD MODES IN FLUID MECHANICS - MAGNETOHYDRODYNAMICS
AFOSR-64-0719 N64-23144 16-11

GASEOUS NUCLEAR ROCKET WITH MAGNETOHYDRODYNAMIC VORTEX FUEL CONTAINMENT
REPT.-6 N64-23252 16-27

LECTURE ON HISTORY OF MAGNETOHYDRODYNAMICS
R-197 N64-23336 16-24

MAGNETOHYDRODYNAMICS, FLOW THEORY, AND PLASMA PHYSICS
FTD-TT-62-1695/1&2 N64-23479 16-24

MAGNETOHYDRODYNAMIC PROBLEMS IN CONVECTIVE FLOW OF VISCOUS CONDUCTIVE LIQUID IN VERTICLE CHANNELS
N64-23480 16-24

ANALYSIS OF MAGNETOHYDRODYNAMIC CHANNEL ENTRANCE FLOWS USING MOMENTUM INTEGRAL METHOD
MIT-35-P N64-25503 17-11

HYPERSONIC MAGNETOHYDRODYNAMICS WITH OR WITHOUT BLUNT BODY
NASA-CR-88 N64-25968 18-24

SOLAR AND GEOPHYSICAL ASPECTS OF COSMIC RADIATION AND MAGNETOHYDRODYNAMICS - BIBLIOGRAPHY
AFCRL-63-893 N64-26717 18-28

HEAT TRANSFER MEASUREMENTS, CONVECTIVE HEAT TRANSFER, SHOCK FRONT STUDIES, RADIATION IN NITROGEN-CARBON DIOXIDE MIXTURES, AND MAGNETOHYDRODYNAMICS
NASA-CR-58050 N64-27300 19-24

NEW CONCEPTS OF ENERGY CONVERSION - THERMIONIC ENERGY CONVERTERS AND MAGNETOHYDRODYNAMIC POWER GENERATION
QTPR-3 N64-27736 19-24

LIQUID MAGNETOHYDRODYNAMIC POWER CONVERSION
AIAA PAPER-64-760 N64-28411 20-06

FUEL CONTAINMENT IN GASEOUS CORE NUCLEAR ROCKET BY MAGNETOHYDRODYNAMIC DRIVEN VORTICES
D2-22408 N64-28743 20-07

MAGNETOHYDRODYNAMICS - EQUATIONS OF MOTION, GENERAL PROPERTIES, BOUNDARY VALUE PROBLEMS, SOUND WAVES, AND SHOCK WAVES
NASA-CR-58347 N64-28832 20-24

USE OF MAGNETOHYDRODYNAMICS DURING HIGH SPEED REENTRY
NASA-CR-58042 N64-28923 20-24

FLOW OF ELECTRICALLY CONDUCTIVE FLUID IN PLANE MAGNETOHYDRODYNAMIC CHANNEL WITH TRANSVERSE MAGNETIC FIELD
NASA-TT-F-242 N64-29493 21-24

MAGNETOHYDRODYNAMICS OF LIQUID METALS IN ELECTROMAGNETIC FIELDS
JPRS-26459 N64-29949 21-24

HALL EFFECT IN RAYLEIGH PROBLEM FOR IONIZED GAS AT LOW SPEEDS - MAGNETOHYDRODYNAMICS
N64-30375 22-24

MAGNETOHYDRODYNAMIC INTERACTIONS IN SHOCK TUNNEL FLOW
NASA-CR-58823 N64-30509 22-24

MAGNETOHYDRODYNAMICS AND SUPERCONDUCTIVITY - INTERACTIONS OF PLASMA FLOWS IN MAGNETIC FIELDS
UAPL-15 N64-31619 23-24

WALL FRICTION & HEAT TRANSFER EFFECTS ON MAGNETOHYDRODYNAMIC DEVICES
ISR-6 N64-32136 23-24

PLASMA PHYSICS STUDIES - PLASMA ION GENERATOR DISCHARGE TUBE, HEATING AND CONFINEMENT OF PLASMA, AND MAGNETOHYDRODYNAMICS N64-32345 23-24

MAGNETOHYDRODYNAMIC CHARACTERISTICS AND SCHOCK WAVES
RR-185 N64-32612 23-24

BASIC MAGNETOHYDRODYNAMICS AND KINETICS OF PLASMAS
FTD-TT-62-508/1&2 N64-32653 23-24

MAGNETOGASDYNAMIC EFFECTS IN FLOW BEHIND SPHERE
BSD-TDR-64-107 N64-32665 23-24

COLLISIONLESS MAGNETOHYDRODYNAMIC SHOCK IN INTERPLANETARY SPACE
NASA-RP-362 N64-33992 24-24

MAGNETOHYDROSTATICS
S FLUID MECHANICS
S HYDROMAGNETISM
S PLASMA PHYSICS

MAGNETOIONIC PLASMA
NEW METHOD OF SOLVING RADIO WAVE PROPAGATION PROBLEMS IN MAGNETOIONIC MEDIA - IONOSPHERIC FOCUSING IN TERRESTRIAL MAGNETIC FIELD
AFCRL-63-945 N64-17861 10-12

WHISTLER AND HYDROMAGNETIC WAVE PROPAGATION IN MAGNETOIONIC MEDIUM
AFCRL-63-929 N64-18308 10-12

MAGNETOIONICS
SECOND ORDER EFFECTS IN HIGH FREQUENCY TRANSIONOSPHERIC PROPAGATION - RAY PATH BENDING, NONLINEAR REFRACTIVE INDEX, AND MAGNETOIONIC MODE SPLITTING
NASA-CR-58797 N64-30523 22-08

ELECTROMAGNETIC WAVE REFLECTION FROM OSCILLATING, COLLISION-FREE MAGNETOIONIC MEDIUM
AFCRL-64-610 N64-32476 23-08

MAGNETOMETER
EQUATORIAL ELECTROJET INVESTIGATION BY SOUNDING ROCKETS WITH MAGNETOMETER N64-14415 06-12

PRINCIPLES, CIRCUITS, AND STABILIZATION OF VARIABLE-MU MAGNETOMETER
AFCRL-63-939/1/ N64-14770 06-15

MAGNETOMETER FOR OBSERVING MAGNETIC VARIATIONS CORRESPONDING TO HIGH-ALTITUDE NUCLEAR TESTS
AFCRL-63-939/3/ N64-15055 07-15

MAGNETOTELLURIC PROFILING AND MAGNETOMETER DEVELOPMENT IN USSR
JPRS-23548 N64-16513 08-12

MAGNETOMETER WHICH EMPLOYS ELECTRON-OPTICAL MAGNIFICATION AND FEEDBACK N64-16517 08-15

MAGNETOMETER FOR GEOLOGIC STRUCTURE PROFILES
N64-16518 08-15

INSTRUMENTATION FOR STUDY OF SUNSPOTS AND GENERAL SOLAR MAGNETIC FIELDS AT ROME ASTRONOMICAL OBSERVATORY - SPECTROGRAPHS AND MAGNETOGRAPH
AFCRL-64-114 N64-18584 11-28

HALL EFFECT DEVICES AS MAGNETOMETERS FOR CRYOGENIC APPLICATIONS
NASA-TN-D-2272 N64-18736 11-15

ANALYSIS OF ELECTRON BEAM BY MAGNETIC DEFLECTION SYSTEM
SLAC-26 N64-19078 11-15

VIBRATING SAMPLE MAGNETOMETER CAPABLE OF MEASURING SMALL SAMPLE MAGNETIZATION AS FUNCTION OF TEMPERATURE
AFCRL-64-13 N64-19139 11-15

EXTREMELY LOW FREQUENCY OSCILLATIONS RECORDED WITH MAGNETOMETER N64-19702 12-12

MEASUREMENT OF GEOMAGNETIC MICROPULSATIONS USING RUBIDIUM VAPOR MAGNETOMETER
SER. 4, ISSUE 87 N64-21379 14-15

MAGNETOMETER, PHOTOMETER, AND EARTH CURRENT OBSERVATIONS IN SWEDEN
AFCRL-64-245 N64-21514 15-12

NONUNIFORM MAGNETIC FIELD MEASURED BY MAGNETOMETER USED AS MAGNETIC PROBE
FTD-TT-62-1874/1&2 N64-22145 15-15

REDUCTION OF DATA FROM MARINER II MAGNETOMETER AND DESIGN OF ELECTRONIC PULSE DETECTION CIRCUITS
NASA-CR-58043 N64-26364 18-29

LOW FIELD HELIUM MAGNETOMETER FOR MARINER C SPACECRAFT
NASA-CR-56557 N64-27898 20-15

MANUAL FOR OPERATION OF FERRITE FLUXGATE MAGNETOMETER
NASA-CR-58342 N64-28989 20-15

FABRICATION OF FERRITE CORE MAGNETOMETERS
NASA-CR-58344 N64-28991 20-15

DIGITAL RECORDING PROTON PRECESSION MAGNETOMETER SYSTEM - COMPUTER PROGRAMS
RR-64-4 N64-30017 21-15

AIRCRAFT INSTALLATION OF DUAL CELL RUBIDIUM VAPOR MAGNETOMETER N64-30371 22-15

TORQUE MAGNETOMETER GAUSSMETER WITH WEAK FERROMAGNETIC ROTORS
TN-9 N64-33492 24-15

RADIOWAVE ABSORPTION EVENTS IN AURORAL ZONE - ANALYSIS OF MAGNETOMETER, RIOMETER, AND ALL-SKY CAMERA DATA
NASA-CR-59342 N64-33810 24-28

MAGNETOMETRY
MEASUREMENT OF EARTH MAGNETIC FIELD COMPONENTS BY PROTON RESONANCE METHOD N64-10163 01-12

MAGNETOMETRY FOR STUDYING RARE METAL CARBONATITE MASSES
JPRS-25991 N64-27761 19-18

MAGNETOPLASMA
CALCULATIONS FOR REFLECTION OF ELECTROMAGNETIC WAVES FROM LOSSY MAGNETOPLASMA - IONOSPHERIC D-LAYER NONRECIPROCAL REFLECTION
NBS-TN-209 N64-10470 01-24

NONUNIFORM MAGNETOSTATIC FIELD EFFECT ON NONRECIPROCAL TRANSMISSION PROPERTIES OF MAGNETO-PLASMA RESONANCE ISOLATOR
RADC-TDR-63-435 N64-12209 03-24

PARAMETRIC SPACE MAPPING OF GUIDED ELECTROMAGNETIC WAVES ON MAGNETOPLASMA COLUMN
AFCRL-63-398 N64-12856 04-24

INTERACTION OF GUIDED ELECTROMAGNETIC WAVES IN MAGNETOPLASMAS TO STUDY PHENOMENA FROM CYCLOTRON RESONANCE ABSORPTION OF MICROWAVE ENERGY BY GASES
AFCRL-63-737 N64-13073 04-24

DYNAMICS OF PLASMA CURRENT SHEATH AND MAGNETOSONIC RESONANCE IN MAGNETOPLASMAS N64-17354 09-24

TRANSMISSION CHARACTERISTICS OF MAGNETOPLASMA RESONANCE ISOLATOR
RADC-TDR-64-92 N64-19205 11-24

WAVE DISPERSION IN COLD MAGNETOPLASMA FROM HYDRODYNAMIC TO WHISTLER FREQUENCIES N64-20433 13-24

MAGNETOPLASMADYNAMIC CHANNEL FLOW WITH HALL CURRENTS
ARL-63-145 N64-21028 14-24

RADIATION FIELD OF ARBITRARY ANTENNA IN MAGNETOPLASMA
NASA-CR-56291 N64-22477 15-08

MAGNETOPLASMA RESONANCE IN SEMICONDUCTORS & METALS N64-24673 17-25

COMPLEX DIELECTRIC CONSTANT OF MAGNETOACTIVE PLASMA AT LOW TEMPERATURE N64-27155 19-24

GYRORESONANT RADIATION AND ABSORPTION IN EQUILIBRIUM MAGNETOACTIVE PLASMA N64-27156 19-24

CLOSED LOOP MAGNETOPLASMADYNAMIC POWER DEVICE, AND SPECTROSCOPIC MEASUREMENT OF PLASMA TEMPERATURE & PRESSURE
REPT.-3632 N64-33824 24-24

MAGNETORESISTANCE
CONVERSION OF DIRECT TO ALTERNATING CURRENT USING MAGNETORESISTANCE - THEORY AND EXPERIMENTS WITH MATERIALS, CONFIGURATIONS, AND CIRCUITS
NASA-CR-52910 N64-11793 03-23

MAGNETORESISTANCE AND SUPERCONDUCTIVITY FOR APPLICATION TO DC TO AC CONVERSION
NASA-CR-53083 N64-16750 08-06

ISOTHERMAL MEASUREMENTS OF MAGNETORESISTANCE IN WIRES FOR LOW TEMPERATURE CRYOSTATS
AD-434385 N64-18703 11-23

MAGNETORESISTANCE AND HALL EFFECT IN CONTROLLED RECTIFIER DEVICES USED FOR LOW VOLTAGE HIGH CURRENT CONVERTER
NASA-CR-56131 N64-20702 13-06

BIBLIOGRAPHY ON MAGNETORESISTANCE AND HALL EFFECT IN METALS, SEMICONDUCTORS, AND ALLOYS
NAVWEPS-8191 N64-33240 24-25

MAGNETORESISTANCE, SUPERCONDUCTIVITY, AND HALL EFFECT FOR INVERTER APPLICATION
NASA-CR-59188 N64-33676 24-25

MAGNETOSONIC RESONANCE
DYNAMICS OF PLASMA CURRENT SHEATH AND MAGNETOSONIC RESONANCE IN MAGNETOPLASMAS N64-17354 09-24

MAGNETOSPHERE
CF GEOMAGNETIC FIELD
ANNOTATED BIBLIOGRAPHY ON GEOMAGNETIC STORMS, SUDDEN DISTURBANCES, AND MAGNETOSPHERIC COMPOSITION
NASA-RP-47 N64-10132 01-12

MORPHOLOGY OF ELECTRON DISTRIBUTION IN OUTER RADIATION ZONE & NEAR MAGNETOSPHERIC BOUNDARY BY EXPLORER XII DATA
NASA-CR-52300 N64-10178 01-12

SPACE PHYSICS - SOLAR WIND, INTERPLANETARY MAGNETIC FIELD & GEOCENTRIC MAGNETOSPHERE
NASA-CR-52759 N64-11296 02-23

GEOMETRY OF MAGNETOSPHERE AND DYNAMICS OF ENERGETIC PARTICLES AND PLASMA IN RELATION TO GEOMAGNETISM
NASA-CR-52904 N64-11740 03-12

MECHANISMS RESULTING IN ACCELERATION OF CHARGED PARTICLES TRAPPED WITHIN MAGNETOSPHERE
SWC-TDR-62-133 N64-11815 03-12

ROTATION OF MAGNETOSPHERE N64-12955 04-12

TERRESTRIAL MAGNETOSPHERIC INTERACTION WITH SOLAR WIND & SHOCK WAVES
NASA-CR-55342 N64-14181 06-28

MAGNETIC STORM ENERGY FROM VISCOUS INTERACTION BETWEEN SOLAR WIND & EARTH MAGNETOSPHERE
NASA-CR-55341 N64-14287 06-28

DETERMINATION OF TEMPERATURE & IONIC COMPOSITION OF IONOSPHERE & MAGNETOSPHERE BY ELECTROMAGNETIC WAVE SCATTERING
NASA-CR-55434 N64-14842 06-12

FLOW CHARACTERISTICS OF SOLAR WIND IN MAGNETO-SPHERIC CAVITY
AVCO-EVERETT RES. REPT.-170 N64-15938 07-12

SPACE COMMUNICATION - ELECTROMAGNETISM, INFORMATION THEORY, MAGNETOSPHERE, & PLASMA WAVES
NASA-CR-53170 N64-17194 09-08

MAGNETOSPHERE CHARACTERISTICS AND EFFECTS ON SPACE COMMUNICATIONS N64-17198 09-12

EXPLORER XII OBSERVATIONS OF MAGNETIC SUDDEN IMPULSES IN EARTH MAGNETOSPHERE
NASA-CR-53231 N64-17574 09-12

OBSERVATIONS OF MAGNETOSPHERE IMPULSES FROM EXPLORER XII DATA
NASA-CR-53611 N64-18475 10-12

VISCOUS INTERACTION BETWEEN SOLAR WIND AND EARTH MAGNETOSPHERE N64-19960 12-12

ELLIPTICALLY POLARIZED HYDROMAGNETIC WAVES IN EARTH MAGNETOSPHERE AND MAGNETIC FIELD
NASA-CR-58130 N64-26375 18-12

WHISTLER RECORDINGS TO TEST VALIDITY OF MODEL MAGNETOSPHERIC ELECTRON DENSITY DISTRIBUTIONS
DI-82-0245 N64-26613 18-12

IONIZATION GRADIENT INCREASE IN MAGNETOSPHERE DURING MAGNETIC STORMS
NASA-TT-F-8926 N64-26712 18-12

MATHEMATICAL MODEL OF NEUTRAL POINT OF IDEAL MAGNETOSPHERE - INTERACTION OF GEOMAGNETIC FIELD WITH SOLAR WIND
NASA-RP-274 N64-27353 19-12

STABILITY OF INTERFACE BETWEEN SOLAR WIND AND MAGNETOSPHERE USING HYDROMAGNETIC EQUATIONS
NASA-RP-297 N64-28232 20-28

ELECTRON INTENSITY NEAR SUNWARD MAGNETOSPHERE BOUNDARY AND WITHIN BOUNDARY LAYER TRANSITION OBSERVED BY EXPLORER XIV SATELLITE
NASA-CR-58787 N64-30505 22-28

GEOMAGNETIC FIELD EFFECTS IN MAGNETOSPHERE AND RADIATION BELTS
P-2917 N64-30822 22-28

CHARGED PARTICLE FLUX AND ENERGY SPECTRA IN LAYERS OF MAGNETOSPHERE DETERMINED BY P-11 SUBSATELLITE
ASE-546 N64-31843 23-28

DIFFERENTIAL AND INTEGRAL ENERGY SPECTRA OF ELECTRONS AND PROTONS IN MAGNETOSPHERE DETERMINED BY CORPUSCULAR RADIATION INSTRUMENTATION IN P-11 SUB-SATELLITE N64-31844 23-28

MEASUREMENTS OF ENERGY SPECTRA OF CORPUSCULAR RADIATION IN MAGNETOSPHERE LAYERS BY P-11 SUB-SATELLITE
ASE-604 N64-31845 23-28

MEASUREMENTS OF MAGNETIC FIELD IN GEOMAGNETIC CAVITY AND INTERACTION REGION BETWEEN SOLAR WIND MAGNETOSPHERE BY PIONEER V SPACE PROBE
NASA-CR-58961 N64-33040 24-28

LOW ENERGY ELECTRON DISTRIBUTION IN OUTER PORTION OF EARTH MAGNETOSPHERE NEAR GEOMAGNETIC EQUATORIAL PLANE - EXPLORER SATELLITE DATA N64-33152 24-28

MAGNETOSPHERE TAIL MEASUREMENTS - TANGENTIAL BOUNDARY STRESSES
NASA-CR-58845 N64-33183 24-28

CHARGED PARTICLE TRAJECTORIES IN CURRENT SHEET BASED ON OPEN MODEL OF MAGNETOSPHERE
AFCRL-64-726 N64-33550 24-28

HYDROMAGNETIC WAVE PROPAGATION IN MAGNETOSPHERE
NASA-TM-X-55092 N64-33565 24-24

MAGNETOSTATIC FIELD
NONUNIFORM MAGNETOSTATIC FIELD EFFECT ON NONRECIPROCAL TRANSMISSION PROPERTIES OF MAGNETO-PLASMA RESONANCE ISOLATOR
RADC-TDR-63-435 N64-12209 03-24

MAGNETOSTATIC MODES FOR MEASURING SATURATION MAGNETIZATION OF PURE AND GALLIUM SUBSTITUTED YTTRIUM-IRON GARNET
AFCRL-64-49 N64-18943 11-25

MAGNETOSTRICTION
CF ELECTROSTRICTION
MAGNETOSTRICTION CONSTANT AND STRUCTURE OF IRON SILICIDE SINGLE CRYSTALS
E-T-R-63-4 N64-13132 04-19

EVALUATION OF MAGNETOSTRICTION, FLOW, AND ROTATING DISK TESTING DEVICES FOR CAVITATION DAMAGE
AD-425725 N64-13302 04-11

INTERACTING INFLUENCE OF CORROSION ON CAVITATION DAMAGE STUDIED QUANTITATIVELY WITH MAGNETO-STRICTIVE DEVICE
AD-433061 N64-17780 09-11

MAGNETOSTRICTIVE RESPONSE OF HIGH STRENGTH STEELS TO CYCLIC FATIGUE TESTING
RA-254/63 N64-19318 12-18

IMPROVEMENT OF SIGNAL-TO-NOISE RATIO IN ELECTRO-MAGNETOSTRICTIVE VIBRATORY GYROSCOPE
NASA-CR-53882 N64-19902 12-15

OBSERVING MAGNETOSTRICTIVE EFFECT OF SINGLE CRYSTAL OF DYSPROSIUM
NOLTR-64-30 N64-26230 18-25

MAGNETOSTRICTION IN NICKEL WIRE SPARK CHAMBER READOUT LINES
UCRL-11620 N64-33086 24-09

MAGNETOTELLURIC PROFILING
SOVIET RESEARCH PAPERS ON GEOMAGNETIC FIELD MAGNETOTELLURIC SOUNDING AND PROFILING, AND EARTH DISTORTION OF ELECTRIC FIELD
JPRS-21641 N64-10162 01-12

MAGNETOTELLURIC EXPLORATION AND PROFILING OF EARTH CRUST N64-10164 01-12

ASSUMPTIONS AND ERRORS OF MAGNETOTELLURIC SOUNDING THEORY - GEOMAGNETIC MEASUREMENT N64-10165 01-12

MAGNETOTELLURIC SOUNDING AND OTHER GEOPHYSICAL EXPLORATION N64-10761 02-12

MAGNETOTELLURIC PROFILING OF UPPER LAYERS OF EARTHS CRUST IN POLISH-LITHUANIAN DEPRESSION - GEOLOGICAL SURVEY N64-11486 03-12

MAGNETOTELLURIC SOUNDING CURVE CONSTRUCTION FROM SHORT-PERIOD GEOMAGNETIC FIELD VARIATIONS - GEOLOGICAL SURVEY N64-11487 03-12

MAGNETOTELLURIC PROFILING AND MAGNETOMETER DEVELOPMENT IN USSR
JPRS-23548 N64-16513 08-12

MAGNETOTELLURIC SOUNDING IN CENTRAL RUSSIA N64-16514 08-12

MAGNETOTELLURIC INVESTIGATION OF EARTH CRUST N64-16515 08-12

EARTH STRUCTURE DETERMINED BY MAGNETOTELLURIC SOUNDING N64-16516 08-12

EARTH CURRENT DETECTION, PROFILING, AND SOUNDING N64-16519 08-12

MAGNETOTELLURIC MICROPULSATIONS AT WIDELY SEPARATED STATIONS
AFCRL-64-10 N64-17319 09-12

COHERENCY BETWEEN ORTHOGONAL ELECTRIC AND MAGNETIC TIME SERIES USED IN MAGNETOTELLURIC SOUNDING AS FUNCTION OF DIRECTION OF MEASURING AXES
AD-428953 N64-19814 12-12

MAGNETOTELLURIC SURVEY IN EASTERN GEORGIA - USSR
JPRS-25089 N64-22735 16-12

RAPID RUN INDUCTION TELLURIGRAMS, MAGNETOGRAMS, AND OBSERVATIONS OF MAGNETIC STORMS, SUDDEN IMPULSE, SOLAR FLARES, AND PULSATION
REPT.-3 N64-23904 16-12

MAGNETRON
CF ELECTRON TUBE
CF RESONATOR
PRODUCTION OF HIGH POWER OSCILLATIONS IN MAGNETIC FIELD BY MAGNETRON AND PLANOTRON MACHINES
JPRS-21726 N64-11138 02-08

RESPONSE OF MAGNETRON AND VACUUM GAUGES ABOARD EXPLORER XVII MEASURING TEMPERATURE, PRESSURE, AND DENSITY OF UPPER ATMOSPHERE
NASA-TN-D-2146 N64-15796 07-15

THEORY AND OPERATION OF MAGNETRON AND PLANOTRON - HIGH POWER ELECTRONICS
FTD-TT-63-253/1&2 N64-16039 07-09

20-NANOSECOND MODULATOR TO PULSE MAGNETRONS WITH PULSE REPETITION FREQUENCIES OF 15 KILOCYCLES
USAELRDL-TR-2414 N64-18876 11-08

PRODUCTION ENGINEERING MEASURE FOR VOLTAGE-TUNABLE MAGNETRONS
AD-432271 N64-21403 14-17

K-BAND COAXIAL MAGNETRON
SFD-16-QPR-9 N64-22084 15-09

CORRECTION OF SPURIOUS POWER OUTPUT FROM MAGNETRON
PT-687 N64-23241 16-06

PRODUCTION ENGINEERING MEASURE FOR K-BAND INVERTED COAXIAL MAGNETRON
SFD-29-QPR-3 N64-25883 18-09

INVERTED COAXIAL MAGNETRON WITH AXIALLY EXTENDED INTERACTION AREA FOR HIGH POWER GENERATION
REPT.-20-F N64-25996 18-23

QUALITY CONTROL OF FILAMENT GROWTH FOR VOLTAGE TUNABLE MAGNETRON
QPR-7 N64-27073 19-17

MOTION OF INDIVIDUAL ELECTRON IN SPECIFIED FIELDS OF INTERELECTRODE SPACE OF MAGNETRON
N64-27163 19-09

CONTINUOUS WAVE X-BAND VOLTAGE TUNABLE MAGNETRON
REPT.-3 N64-27627 19-09

PRODUCTION ENGINEERING MEASURE FOR MAGNETRON
QPR-11 N64-28791 20-17

MAGNETRON INJECTION AND ELECTROSTATIC GUNS FOR HIGH PERVEANCE KLYSTRON
REPT.-11 N64-31116 22-09

MAGNUS EFFECT
S MISSILE DESIGN

MAINTAINABILITY
QUANTITATIVE MAINTAINABILITY REQUIREMENTS TEST AND DEMONSTRATION PLAN FOR MULTISATELLITE AUGMENTATION PROGRAM, PHASE A /MUSAP A/
WDL-TR-2025 N64-14701 06-10

RELIABILITY AND MAINTAINABILITY OF RADAR COMMUNICATIONS SYSTEM IN EXTENDED DEPLOYMENT
ESD-TDR-64-198 N64-19661 12-10

NUCLEAR PROPULSION RADIATION EFFECT ON RELIABILITY CONTROL AND MAINTAINABILITY CONCEPTS IN REACTOR IN-FLIGHT TEST /RIFT/ PROJECT N64-28293 20-17

MAINTENANCE
CF LOGISTICS
POLYMODAL VOCODER MANUAL - DESCRIPTION, OPERATING & TUNING PROCEDURE, SCHEMATICS, AND ASSEMBLY DRAWINGS
AFCRL-63-301, PT. 2 N64-10549 01-08

MAINTENANCE WORK CONTROL PROGRAM USING DATA PROCESSING TECHNIQUES
Y-1371 N64-12124 03-20

FEASIBILITY OF MAINTAINING ORBITING SPACECRAFT USING ORBITAL WORKERS AND SPECIAL REPAIR VEHICLES
NASA-CR-55072 N64-12163 03-30

LUBRICATION OF GUIDANCE, CONTROL, AND INSTRUMENT BEARINGS IN SPACE ENVIRONMENT
NASA-TM-X-50798 N64-12400 03-17

HUMAN BEHAVIOR DURING SPACE TRAVEL - MAINTENANCE OF HEALTH
ENG. REPT.-11133 N64-14943 06-14

PROCEDURE FOR PREDICTION OF TIME AND MANPOWER REQUIRED FOR MAINTENANCE OF ELECTRONIC EQUIPMENT
REPT.-64-34 N64-22095 15-14

BENCH-MAINTENANCE TEST SET FOR SPACECRAFT INSTRUMENTATION SYSTEM
AIAA PAPER-64-331 N64-23228 16-30

SPACE MAINTENANCE HANGAR CONCEPT
N64-23707 16-31

SYSTEMS ANALYSIS AND TRAINING METHODS FOR MAINTENANCE OF ELECTRONIC WEAPON SYSTEM
RR-13 N64-25800 17-09

RELIABILITY AND MAINTENANCE PROBLEMS IN REACTOR IN-FLIGHT TEST /RIFT/ PROJECT - EVALUATION METHODS FOR FLIGHT PERFORMANCE RELIABILITY
N64-28292 20-17

CORRECTIVE & PREVENTIVE MAINTENANCE PROCEDURES FOR MILLSTONE L-BAND MONOPULSE RADAR ANTENNA
ESD-TDR-63-585 N64-29620 21-08

OPTIMUM PERIOD BETWEEN PREVENTIVE MAINTENANCE SERVICING FOR AUTOMATIC SYSTEMS
N64-30212 22-20

OPTIMUM MAINTENANCE RULE PROVIDING MINIMUM AVERAGE LOSSES IN SYSTEM WITH RESERVE BLOCKS
N64-30213 22-20

RELIABILITY OF RESERVE SYSTEMS IN PERIODS BETWEEN OCCASIONAL MAINTENANCE SERVICING
N64-30214 22-20

ELECTROSTATIC CHARGING AND DISCHARGING PROCESSES DURING AIRCRAFT REFUELING N64-30372 22-17

BIBLIOGRAPHY ON MAINTENANCE PERSONNEL PERFORMANCE MEASUREMENT
AMRL-MEMO-P-45 N64-30500 22-14

DATA PROCESSING USE IN SUPPLY, MAINTENANCE, AND OPERATIONS MANAGEMENT
RM-3924-PR N64-30529 22-01

MAINTAINABILITY PREDICTION FOR ELECTRONIC EQUIPMENT
TR-40 N64-30687 22-10

MAINTENANCE TECHNIQUES FOR TETHERED WORKERS UNDER ZERO GRAVITY CONDITIONS
GA-63 N64-32154 23-14

CREW STATION DESIGN CRITERIA FOR SPACE VEHICLES - PRESSURE SUIT REQUIREMENTS, POTENTIAL HAZARDS, AND IN-FLIGHT MAINTENANCE
SID-64-997 N64-32201 23-32

CALCULATION OF MANPOWER & EQUIPMENT REQUIREMENTS FOR MAINTENANCE OF MINUTEMAN ICBM SYSTEMS
RM-3308-PR N64-32524 23-10

RECOMMENDATIONS OF EQUIPMENT AND MAINTENANCE STANDARDS FOR USE IN PRESSURE-MEASURING ALTIMETERS
RD-64-119 N64-32803 24-15

MALKUS THEORY
S STATISTICAL MECHANICS

MAMMAL
BLOOD GLYCOGEN METABOLISM IN MAMMALS AFTER IONIZING RADIATION
JPRS-18479 N64-10769 02-16

IN VIVO METHOD FOR QUANTITATIVE ESTIMATION OF TOTAL GAS PRESSURE IN MAMMALIAN TISSUE
CARI-63-11 N64-12346 03-16

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE
N64-12887 04-16

CYTOLOGICAL EXAMINATION OF RADIOSENSITIVITY OF BONE MARROW & LYMPH NODE CELLS IN DIFFERENT SPECIES OF IRRADIATED MAMMALS
JPRS-22778 N64-13230 04-16

HIBERNATION IN MAMMALS AND BIRDS
AAL-TDR-63-3 N64-13661 05-16

PROPERTIES AND STRUCTURE OF PURIFIED MAMMALIAN ADENOSINE DEAMINASE ISOLATED FROM CALF INTESTINE AND CAT LUNG
AD-429070 N64-14832 06-16

RADIOLOGY - EFFECTS OF PLUTONIUM-239 ON METABOLIC FUNCTIONS OF MAMMALS
FTD-TT-63-559/1&2 N64-16377 08-16

BIOMEDICAL RESEARCH ON MOLECULAR AND CELLULAR RADIOBIOLOGY IN MAMMALS
LAMS-3034 N64-16573 08-16

TRANSFER AND ADMINISTRATION OF PENTABORANE-9 TO SMALL MAMMALS
AMRL-TDR-63-128 N64-16585 08-16

RELAXATION OF MAMMALIAN SMOOTH MUSCLE BY ELECTRIC CURRENT STIMULATION
FR-2 N64-19086 11-16

RADIATION SICKNESS IN MAMMALS AND RELATIVE BIOLOGICAL EFFECT OF HIGH ENERGY PROTONS
N64-22866 16-16

ELECTRONARCOSIS OF LOWER VERTEBRATES AND COMBINATION WITH DRUG NARCOSIS IN MAMMALS
FTD-TT-63-931/1&2 N64-24064 16-14

GAMMA RADIATION EFFECT ON THERMAL STRESS RESISTANCE AND REPRODUCTIVE SYSTEM IN RATS AND MAMMALS
AD-600960 N64-25308 17-16

DAMAGES OF IONIZING RADIATION TO ORGANS OF MAMMALS
N64-25313 17-16

PHYSIOLOGICAL DATA AND INSTRUMENT DEVELOPMENT FOR AUTOMATIC MEASUREMENT OF HEMODYNAMIC AND METABOLIC PARAMETERS ON PRIMATES DURING WEIGHTLESSNESS
NASA-CR-56348 N64-25768 17-16

HYPOTHERMIA AND CESSATION OF VITAL ACTIVITY IN ORGANS OF NONHIBERNATING MAMMALS
JPRS-25650 N64-27503 19-16

RADIATION EFFECTS ON MAMMALIAN EYE - SUBJECT INDEX
TID-3912 N64-28788 20-16

BIBLIOGRAPHY ON NATURAL MAMMALIAN HIBERNATION
AAL-TDR-63-34 N64-31936 23-16

DYNAMICS OF PHYSICAL AND CHEMICAL SYSTEMS IN MAMMALS - THERMOREGULATION, CARDIOVASCULAR SYSTEMS, HORMONES, AND BEHAVIOR
NASA-CR-129 N64-32833 24-16

IDENTIFICATION OF RUDIMENTARY SENSORY ORGAN AT JUNCTION OF INFERIOR UTRICULAR SINUS AND SEMICIRCULAR CANAL IN MAN AND OTHER MAMMALS - PHYSIOLOGY
NASA-CR-59374 N64-33906 24-16

MAN
BIBLIOGRAPHY - RADIATION EFFECT ON ANIMALS, MAN, AND PLANTS
SB-62-60 N64-20517 13-16

KINETICS OF JOINT SYSTEMS AND STATE OF MOTION & EQUILIBRIUM IN MAN
N64-24341 17-16

USE OF MAN IN BOOSTER GUIDANCE AND CONTROL
NASA-CR-81 N64-24830 17-22

MAN IN SPACE - EXPLORATION STAGES, LIFE SUPPORT SYSTEMS, RADIATION PROTECTION, TRAINING, AND PHYSIOLOGICAL RESEARCH METHODS
JPRS-25825 N64-28438 20-29

IDENTIFICATION OF RUDIMENTARY SENSORY ORGAN AT JUNCTION OF INFERIOR UTRICULAR SINUS AND SEMICIRCULAR CANAL IN MAN AND OTHER MAMMALS - PHYSIOLOGY
NASA-CR-59374 N64-33906 24-16

MAN-MACHINE SYSTEM
SA HUMAN ENGINEERING
SA HUMAN FACTOR
MONTE CARLO METHODS FOR SIMULATION OF STOCHASTIC PROCESS CONTROLLED MAN-MACHINE SYSTEM - MILITARY AIRCRAFT LOGISTICS
N64-11867 03-20

ENGINEERING PSYCHOLOGY - INVESTIGATION OF TACTILE SENSATION, GRAPHIC ACTIVITY, & SPATIAL PERCEPTION OF MAN-MACHINE SYSTEMS
JPRS-22300 N64-11872 03-14

BIOMEDICAL REQUIREMENTS & DESIGN CRITERIA FOR MAN-MACHINE SYSTEM CONFIGURATION FOR USE IN PROPOSED AEROSPACE ENVIRONMENTAL CHAMBER
AEDC-TDR-63-256 N64-12226 03-16

HUMAN FACTORS RELIABILITY ANALYSIS OF MAN-MACHINE SYSTEM
SCR-685 N64-17267 09-14

IMPROVEMENT OF HUMAN OPERATOR TRACKING PERFORMANCE IN MAN-MACHINE CONTROL SYSTEMS BY OPTIMUM FILTERING AND PREDICTION
N64-21122 14-14

INTERNAL ENVIRONMENT SIMULATOR FOR MAN-MACHINE SYSTEM
NAVTRADEVCEN-786-2 N64-22961 16-10

CONTROL SYSTEM LAGS AND MAN-MACHINE SYSTEM PERFORMANCE - BIBLIOGRAPHY
NASA-CR-83 N64-25172 17-16

STRESS ANALYSIS OF FLYWHEEL ACCELERATOR FOR TESTING MAN-MACHINE SYSTEMS
CE-4462-106-62U N64-26658 18-15

EFFECT OF FEEDBACK ON ADAPTIVE CHARACTERISTICS IN LIFE SCIENCES AND MAN-MACHINE INTERACTIONS
AMRL-TDR-64-39 N64-26884 18-14

LOW-COST TWO-DIMENSIONAL GRAPHIC INPUT TABLET AND STYLUS FOR MAN-MACHINE GRAPHICAL COMMUNICATIONS
RM-4122-ARPA N64-28464 20-08

PROJECTED ROLE OF MAN IN MACHINE ENVIRONMENT - ACCEPTANCE DATA FOR MAN-MACHINE SYSTEM
NASA-CR-95 N64-30831 22-14

COMPUTER PROGRAM BASED ON MAN-MACHINE INTERACTION IN FORMAL MATHEMATICS - MECHANICAL THEOREM PROVING
AFCRL-64-563 N64-32111 23-20

MANAGEMENT
SA PERSONNEL
SA PROGRAM MANAGEMENT
SCIENTIFIC RESEARCH AND DEVELOPMENT MANAGEMENT IN NATO
N64-15102 07-01

MANAGEMENT OF SCIENTIFIC RESEARCH PROJECTS & THEIR STATUS AT RADIATION LABORATORIES
N64-15402 07-01

SELECTED BIBLIOGRAPHY OF CONTRACT PROPOSALS
LS-BIB-63-6 N64-15674 07-01

AERONAUTICS RESEARCH - MANAGEMENT, FACILITY DESIGN AND CONSTRUCTION, & WIND TUNNEL DESIGN
N64-16021 07-01

IDENTIFICATION OF INDUSTRY-GOVERNMENT PROBLEMS IN

AEROSPACE FIELD - SUGGESTED REMEDIAL ACTION
N64-16114 08-10

INFORMATION-MANAGEMENT SUBSYSTEM OF COOPERATIVE MAN/COMPUTER SYSTEM FOR PRODUCTION OF COMPUTER PROGRAMS
ESD-TDR-64-177 N64-17288 09-01

CURRENT PROBLEMS IN MANAGEMENT OF SCIENTIFIC PERSONNEL N64-21601 15-01

CAREER DEVELOPMENT OF FEDERAL SCIENTISTS AND ENGINEERS - RECOGNITION OF RESEARCH COMPETENCE N64-21602 15-01

MANAGEMENT OF SCIENTIFIC PERSONNEL - INCENTIVES AND EVALUATION N64-21603 15-01

MANAGEMENT OF SCIENTIFIC PERSONNEL - SENIOR SCIENTISTS N64-21604 15-01

MANAGEMENT OF SCIENTIFIC PERSONNEL - PSYCHOLOGICAL CHARACTERISTICS AND IDENTIFYING SUPERIORITY N64-21605 15-01

USE OF AEROSPACE MANAGEMENT TECHNIQUES IN OTHER INDUSTRIES
P-2927 N64-28816 20-01

MANAGEMENT PLANNING
SA PRODUCT DEVELOPMENT
ACCOMPLISHMENTS OF NASA SATELLITE AND SPACE PROBE PROGRAMS AND MANAGEMENT PLANNING N64-14432 06-01

MANAGEMENT PLANNING & OPERATION RESEARCH FOR TIROS H SATELLITE
NASA-TM-X-54699 N64-17608 09-32

MANAGEMENT PLANNING OF RESEARCH ON COMPUTER DESIGN AND CIRCUITS
RTD-TDR-63-4173 N64-18939 11-20

SIMULATION METHODS IN SYSTEMS ANALYSIS AS TOOL IN MANAGEMENT PLANNING
TM-765/000/00 N64-19087 11-10

COST ESTIMATE, BUDGET APPROPRIATION, & MANAGEMENT PLANNING FOR NASA PROGRAM N64-20198 13-01

BUDGET APPROPRIATION, COST ESTIMATE, & MANAGEMENT PLANNING FOR NASA PROGRAM N64-20199 13-01

MANAGEMENT PLANNING FOR FUTURE SCIENCE RESEARCH FACILITIES N64-21606 15-01

ANNOTATED BIBLIOGRAPHY ON LONG RANGE PLANNING AND TECHNOLOGICAL FORECASTING
SRB-63-12 N64-22200 15-01

COMMUNICATIONS SYSTEMS ENGINEERING IN BUSINESS MANAGEMENT N64-24853 17-08

MANAGEMENT PLANNING FOR MINIMUM COST WITHIN RELIABILITY CONSTRAINTS OF DEVELOPMENT PROGRAMS
AIAA PAPER-64-410 N64-24892 17-20

PLANNING AND OPERATIONS RESEARCH IN MACHINE BUILDING
JPRS-24993 N64-26260 18-17

PERFORMANCE, COST, AND TIME FACTORS IN NASA PROGRAMS AND CONTRACTS N64-30346 22-10

DATA PROCESSING USE IN SUPPLY, MAINTENANCE, AND OPERATIONS MANAGEMENT
RM-3924-PR N64-30529 22-01

ECONOMIC CONCEPTS AND PRINCIPLES OF QUALITY MANAGEMENT - COSTS, SUPPLY, AND DEMAND
SC-RR-64-1279 N64-30654 22-17

CYBERNETICS AND ECONOMIC MANAGEMENT
JPRS-26773 N64-32816 24-01

MANDREL
COMBUSTIBLE MANDREL FROM NITROCELLULOSE PAPER
PA-TM-1324 N64-21749 15-26

REINFORCED PLASTIC CONSTRUCTION METHODS FOR LARGE ROCKET MOTOR CASE - MANDRELS
TR-63-7-858, VOL. V N64-26345 18-17

MANEUVER
SA SELF-MANEUVERING UNIT
CF FLIGHT CONTROL
ASTRONAUTS ROLE IN SPACE PROGRAM - TRAINING EQUIPMENT AND SPACECRAFT MANEUVERS
JPRS-20100 N64-11133 02-14

SIMPLIFIED MODEL OF MIDCOURSE MANEUVER EXECUTION ERRORS
NASA-CR-53032 N64-13278 04-29

EARTH-LANDING SYSTEMS FOR MANNED SPACECRAFT
AGARD-446 N64-13448 05-30

GRAPHS AND TABLES FOR DETERMINATION OF TURNING ANGLES AND BOUNDARY SHAPES OF JET EXHAUSTS
AEDC-TDR-64-73 N64-18794 11-02

WEIGHTLESSNESS IN SPACE - MANEUVERABILITY, ELASTIC COMPRESSION OF OBJECTS, AND BEHAVIOR OF LIQUIDS
FTD-TT-63-300/1&4 N64-19213 11-14

EFFECT OF MANEUVERING OBJECT ON GYROSCOPIC PENDULUM EQUIPPED WITH CORRECTORS N64-23541 16-15

ORBITAL ATTACHMENT, DOCKING, AND LATCHING MECHANISMS FOR SPACECRAFT
RTD-TDR-63-4292 N64-24214 16-06

EFFECT OF HIGH TEMPERATURE AND VEHICLE MANEUVERS ON DOPPLER ANTENNAS FOR LIFTING REENTRY VEHICLE
P-64-15 N64-26902 18-08

OPTIMUM AERODYNAMIC MANEUVER FOR CHANGE OF ORBITAL PLANE DURING NEAR-CIRCULAR ORBITS N64-27977 20-02

MOTION SICKNESS SYMPTOMOLOGY OF LABYRINTHINE DEFECTIVE AND NORMAL HUMAN SUBJECTS DURING ZERO GRAVITY MANEUVERS
AMRL-TDR-64-47 N64-28562 20-16

AIRCRAFT RESPONSE IN ROLLING MANEUVERS INCLUDING INERTIAL CROSS-COUPLING EFFECTS OF LATERAL AND LONGITUDINAL MOTIONS
ARC-R&M-3349 N64-29330 21-04

ANALYTICAL TECHNIQUE FOR COMBINING LINEARIZED TWO-BODY EQUATIONS WITH CALCULUS VARIATIONS TO DETERMINE GUIDANCE LAW FOR OPTIMUM SPACE MANEUVERS
NASA-TM-X-51926 N64-29518 21-29

ACCELERATIONS ON AIRCRAFT IN MANEUVERING FLIGHT
ARC-R&M-3372 N64-30025 21-04

MANEUVERABLE SPACECRAFT
ORBITAL PLANE CHANGE BY AEROPROPULSIVE MANEUVERING - OPTIMIZATION PROCEDURE
ASD-TDR-63-693 N64-14103 05-29

POINT-MASS TRAJECTORY DATA FOR MANEUVERABLE BALLISTIC MISSILE REENTRY VEHICLES
NOLTR-63-193 N64-21248 14-29

MANGANESE
PREPARATION TEMPERATURE EFFECTS ON EMISSION SPECTRA OF MANGANESE ACTIVATED MAGNESIUM GERMANATE
REPT.-2900-446-R N64-14397 06-25

LABORATORY METHOD TO RECOVER MANGANESE FROM SLIMES AND LIMESTONES
BM-RI-6361 N64-14802 06-07

ELECTRICAL AND OPTICAL PROPERTIES OF DIODES PREPARED FROM DIFFUSION OF MANGANESE AND ZINC INTO GALLIUM ARSENIDE - LASERS N64-17873 10-25

SPECTRA DISTRIBUTION OF ELECTROLUMINESCENCE OF MANGANESE AND ZINC DIFFUSED P-N JUNCTIONS N64-17874 10-25

CYCLOHEXANE INTERACTION WITH METALLIC CATALYST SURFACE, CHEMICAL BOND IN ELECTRONIC PARAMAGNETIC RESONANCE SPECTRA OF MANGANESE, AND ELECTROSTATIC

ADSORPTION OF IONS
JPRS-25115 N64-22738 16-07

THERMOLUMINESCENCE OF PHOSPHORS BASED ON CALCIUM SULFATE WITH MANGANESE AND SAMARIUM ACTIVATORS
N64-24568 17-23

GEOMETRY OF TRANSITION METAL DIHALIDES - FLUORIDES OF MANGANESE, COBALT, NICKEL, COPPER, & ZINC
ITR-6 N64-25586 17-19

SEPARATION OF MAGNETIC CONTRIBUTION FROM TOTAL SPECIFIC HEAT OF ALPHA MANGANESE
AMRA-TR-64-07 N64-29805 21-18

FLUCTUATIONS IN ANTIFERROMAGNETIC RESONANCE LINEWIDTH OF MANGANESE AND NICKEL FLUORIDES NEAR TRANSITION TEMPERATURE
TR-302 N64-32088 23-25

MANGANESE ALLOY
MANGANESE-ALUMINUM ALLOYS FOR PERMANENT MAGNET MATERIAL
ASD-TDR-63-422 N64-18575 11-18

X-RAY FLUORESCENCE ANALYSIS OF RARE EARTH ALLOYS WITH MANGANESE
AD-428773 N64-19931 12-23

EXAMINATION OF RARE EARTH MANGANESE ALLOYS BY METALLOGRAPHIC AND X-RAY METHODS
TN-5 N64-20401 13-18

KINETIC AND GEOMETRIC CHARACTERISTICS OF MARTENSITE CONVERSION IN IRON-NICKEL MANGANIC ALLOY
FTD-TT-62-1760/1&2 N64-22398 15-17

EFFECT OF COMPLEX REDUCING AGENT IN SMELTING ON MECHANICAL PROPERTIES OF CAST LOW-ALLOY MANGANESE STEEL N64-29038 21-18

INFLUENCE OF PROCESSING FACTORS ON MECHANICAL PROPERTIES OF HEAT-RESISTANT NICKEL-FREE CHROMIUM-MANGANESE STEEL N64-29044 21-18

MANGANESE COMPOUND
CLINICAL EVALUATION OF BIOCHEMICAL TOXICITY OF MANGANESE OXIDES
JPRS-18698 N64-10504 01-16

IMPROVED LOW TEMPERATURE ALKALINE MANGANESE DIOXIDE PRIMARY CELL
AD-423090 N64-12829 04-06

MAGNETIC SUSCEPTIBILITY OF POWDERED MANGANESE FORMATE AT TEMPERATURES BETWEEN 0.4 AND 20 DEG K.
TR-18 N64-15591 07-23

AMMONIACAL-AMMONIUM CARBONATE LEACHING OF MANGANIFEROUS MATERIALS
BM-RI-6368 N64-15797 07-07

CONDUCTION MECHANISM IN LITHIUM-SUBSTITUTED OXIDES OF MANGANESE, COBALT, NICKEL, AND COPPER
N64-18117 10-25

MAGNESIUM-MAGNESIUM BROMIDE-MANGANESE OXIDE FLAT CELL BATTERY
AD-428461 N64-19872 12-06

FABRICATION OF SOLID ELECTROLYTE /MANGANESE OXIDE/ TANTALUM FOIL CAPACITOR
AD-436726 N64-20138 13-09

FORMATION HEATS AND FREE ENERGIES OF SULFIDES OF MANGANESE, IRON, ZINC, AND CADMIUM
BM-RI-6495 N64-25841 18-07

RELATION OF FLUORESCENCE OF MANGANESE DIFLUORIDE TO ITS MAGNETIC ORDERING AT NEEL TEMPERATURE
N64-27994 20-25

WAVELENGTH, LIFETIME, AND RELATIVE INTENSITY OF FLUORESCENCE OF MANGANESE DIFLUORIDE AND ALKALI MANGANESE TRIFLUORIDES N64-27995 20-25

LOW TEMPERATURE MAGNETIC SUSCEPTIBILITY OF MANGANESE FORMATE DIHYDRATE
TR-23 N64-29677 21-25

FLUCTUATIONS IN ANTIFERROMAGNETIC RESONANCE LINEWIDTH OF MANGANESE AND NICKEL FLUORIDES NEAR TRANSITION TEMPERATURE
TR-302 N64-32088 23-25

GROWTH OF ZINC YTTRIUM COMPOUND WITH MANGANESE OXIDE FROM BARIUM BORATE METALS
S-658 N64-33945 24-25

MANGANESE 56
MANGANESE 56 GAMMA-GAMMA COINCIDENCE COUNTING FACILITY FOR NEUTRON SOURCE ASSAY
ANL-6760 N64-10130 01-19

MANGLER TRANSFORMATION
S SHEARING STRESS

MANNED ORBITAL LABORATORY /MOL/
LECTURES IN AEROSPACE MEDICINE - LIFE SUPPORT SYSTEMS, HUMAN PERFORMANCE, AND LANDING SIMULATION FOR MANNED LUNAR LANDING, ORBITING LABORATORY, AND MARS MISSIONS
AD-445253 N64-30712 22-16

MANNED ORBITING LABORATORY N64-30726 22-32

MANNED ORBITAL RESEARCH LABORATORY /MORL/
DATA PROCESSING AND COMMUNICATION SUBSYSTEM RESEARCH ON MANNED ORBITAL RESEARCH LABORATORY
WDL-TR-1209 N64-21511 15-32

MANNED ORBITAL SPACE STATION /MOSS/
ATTITUDE CONTROL FOR SUN-ORIENTED AXISYMMETRIC ROTATING MANNED SPACE STATION
NASA-CR-55033 N64-11816 03-22

MANNED ORBITAL SPACE STATION FEASIBILITY
N64-13713 05-29

10-TO-40 KILOWATT ELECTRICAL POWER SYSTEM FOR MANNED ORBITAL SPACE STATION
NASA-CR-55747 N64-15886 07-06

BIBLIOGRAPHY ON MANNED ORBITAL SPACE STATIONS INCLUDING COMPONENTS, STRUCTURAL MATERIALS, POWER SUPPLY, AND LIFE SUPPORT SYSTEMS
R63SD65 N64-21677 15-32

SNAP REACTOR POWER SYSTEMS - APPLICATION TO MANNED SPACE STATIONS
NAA-SR-9715 N64-22949 16-27

INFLATABLE MATERIAL OR EXPANDABLE STRUCTURES FOR SPACECRAFT DESIGN WITH EMPHASIS ON MANNED SPACE STATIONS N64-23714 16-31

INFLATED PARAGLIDER FOR ESCAPE FROM MANNED ORBITING SPACE STATION N64-23715 16-32

STRUCTURAL FLEXIBILITY OF ROTATING SPACE STATION
ARD-TR-02-004 N64-25212 17-32

TRANSONIC AERODYNAMIC AND BUFFET CHARACTERISTICS OF PACKAGED MANNED ORBITAL SPACE STATION /MOSS/ ON SATURN V LAUNCH VEHICLE
NASA-TM-X-1000 N64-28318 20-32

APPLICATION OF NUCLEAR-ELECTRIC POWER SUPPLY SYSTEMS TO MANNED ORBITAL SPACE STATIONS
NASA-CR-54161 N64-29574 21-06

NUCLEAR ELECTRIC POWER APPLIED TO MANNED ORBITAL SPACE STATION - SNAP-8 EVALUATION AND GROWTH POTENTIAL
NASA-CR-54160 N64-29727 21-06

MANNED SPACE FLIGHT
ENGINEERING PROBLEMS OF MANNED INTERPLANETARY EXPLORATION N64-10040 01-01

KNOWN AND UNKNOWN INFORMATION ON MANNED PLANETARY FLIGHT N64-10041 01-32

ATMOSPHERIC REENTRY PROBLEMS OF MANNED INTERPLANETARY FLIGHT N64-10043 01-32

AERODYNAMICS OF LOW-DENSITY, AUTOROTATING WINGS

FOR MANNED ATMOSPHERIC REENTRY N64-10044 01-02

ELECTRIC PROPULSION FOR MANNED INTERPLANETARY MISSION - DELIVERY AND RETURN OF LARGE PAYLOADS N64-10046 01-27

RELIABILITY AND QUALITY CONTROL REQUIREMENTS FOR MANNED SPACE FLIGHT - DESIGNS, PROCEDURES, AND SCHEDULES
NASA-TM-X-51030 N64-10110 01-32

ADAPTATION OF HUMANS TO SPACE FLIGHT CONDITIONS, AND EFFECTS OF SPACE ENVIRONMENT ON MAN N64-10146 01-16

AUTOMATIC CONTROL OF GREEN PLANT SYSTEMS FOR PHOTOSYNTHETIC AIR REGENERATION - MANNED SPACE FLIGHT USE
JPRS-21610 N64-10201 01-16

SOVIET SPACE FLIGHT TRAINING OF ASTRONAUTS
JPRS-21829 N64-10208 01-14

PROBLEMS OF NUTRITION AND FEEDING FOR MANNED SPACE FLIGHT N64-10264 01-16

PHYSIOLOGICAL EFFECTS OF WEIGHTLESSNESS IN SPACE FLIGHT N64-10265 01-16

MANNED SPACE FLIGHT PROGRAM - ITS SIGNIFICANCE AND ECONOMIC IMPLICATIONS N64-10350 01-01

EFFECT OF VIBRATION, ACCELERATION, WEIGHTLESSNESS & BIOLOGICAL RHYTHMS ON MAN IN SPACE
JPRS-18627 N64-10503 01-16

COSMIC RADIATION HAZARD FOR MANNED SPACE FLIGHT - PHARMACOLOGICAL PROTECTION, PHYSICAL & BIOLOGICAL DOSIMETRY N64-10514 01-16

SPACE SYSTEM DESIGN OPTIMIZATION BASED ON HUMAN REQUIREMENTS DURING ACCELERATION N64-11808 03-14

HYPOTHERMIA & ARTIFICIAL HIBERNATION FOR SPACE TRAVEL - ANNOTATED BIBLIOGRAPHY
SID-63-354 N64-11821 03-16

FLUID DYNAMICS, PROPULSION, MATERIALS, ELECTRONICS, MEDICINE, FLIGHT MECHANICS, AND MANNED SPACE FLIGHT TESTING N64-11877 03-01

AIRCRAFT TESTING PRINCIPLES AND METHODS APPLIED TO MANNED SPACE FLIGHT N64-11885 03-04

PSYCHOLOGICAL EFFECT OF EXTENDED MANNED SPACE FLIGHT
AMRL-TDR-63-81 N64-12213 03-14

SIMULATED SPACECRAFT ATMOSPHERE - EFFECT OF PROLONGED EXPOSURE TO OXYGEN AT HIGH PARTIAL PRESSURES ON MAN
SAM-TDR-63-52 N64-12321 03-16

SAFETY CONSIDERATIONS FOR MANNED SPACE FLIGHT
FTD-TT-62-1605/1 N64-12849 04-14

SIMULATION SYSTEMS FOR SUPERSONIC TRANSPORT PROGRAM AND MANNED SPACE FLIGHT N64-12879 04-10

SIMULATION SYSTEM FOR GROUND OPERATIONAL SUPPORT OF MANNED SPACE FLIGHT N64-12882 04-10

SATELLITE FOR EVALUATION OF SOLAR FLARE HAZARDS FOR NEAR-EARTH MANNED SPACE MISSIONS - FARD SATELLITE
RTD-TDR-63-3010 N64-13780 05-28

OPERATIONS RESEARCH APPLICATIONS IN SUPPORT PLANNING FOR MANNED SPACE FLIGHT
NASA-CR-55284 N64-14155 05-30

ASTRONAUTS FOR MANNED SPACE FLIGHT
NASA-EP-11 N64-14655 06-14

TELECOMMUNICATIONS SYSTEM FOR MANNED MARS SPACE FLIGHT
NASA-CR-53047 N64-14845 06-29

PARAMETRIC ANALYSIS OF MANNED PLANETARY FLIGHT TO VENUS AND MARS
NASA-CR-55409 N64-15879 07-29

LIFE IN SPACE ENVIRONMENT, COSMIC RADIATION, & MANNED SPACEFLIGHT REPORTS
FTD-TT-62-1518/1&2 N64-16351 08-01

SIGNIFICANCE OF USSR ASTRONAUTS ORBITING EARTH N64-16352 08-32

HAZARDS OF MANNED SPACE FLIGHT DUE TO TECHNICAL FAILURE OR MICROMETEOR IMPACT N64-17550 09-16

MANNED SPACE FLIGHT PROGRAM, JANUARY THROUGH JUNE 1963 - SATURN AND RIFT PROJECTS
NASA-TM-X-51523 N64-17796 09-10

PHYSIOLOGICAL & PSYCHOLOGICAL DISORIENTATION OF ASTRONAUT DURING SPACE TRAVEL
NADC-MA-6321 N64-20329 13-14

MANNED LUNAR SCIENTIFIC EXPLORATION
NASA-TM-X-51676 N64-20665 13-30

FUNCTIONAL DISTURBANCE OF VESTIBULAR APPARATUS AND IMPLICATIONS FOR MANNED SPACE FLIGHT
NASA-CR-53958 N64-20730 13-14

PROTON FLUXES ALONG LOW ACCELERATION TRAJECTORIES THROUGH VAN ALLEN BELT - RADIATION HAZARD FOR MANNED INTERPLANETARY SPACE FLIGHTS
NASA-RP-193 N64-21281 14-28

HUMAN ADAPTATION TO CHANGING ENVIRONMENTAL FACTORS DURING SPACE FLIGHT
JPRS-20673 N64-22258 15-14

SUPERSONIC AIRCRAFT, MANNED SPACE FLIGHT SIMULATION, ELECTRONIC COMPUTERS, AND MAGNETOPLASMADYNAMICS RESEARCH N64-22417 15-29

EFFECTS OF COSMIC FLIGHTS ON HUMAN ORGANISM
FTD-TT-63-719/1&2 N64-23309 16-16

HUMAN BEHAVIOR ABOARD SATELLITE - REACTION TO WEIGHTLESSNESS, ACCELERATION, AND RADIATION HAZARD N64-23637 16-31

DISCOVERIES OF SOVIET ASTRONAUTS DURING MANNED SPACE FLIGHTS N64-23845 16-32

NASA NINTH SEMIANNUAL REPORT TO CONGRESS, JAN. 1 THROUGH JUN. 30, 1963 N64-23946 16-01

MANNED MARS MISSION USING ELECTRIC PROPULSION SYSTEMS
AIAA PAPER-64-498 N64-24166 16-27

HAZARDS TO MANNED SPACE FLIGHT N64-24496 17-32

ELECTRIC PROPULSION FOR MANNED INTERPLANETARY VEHICLE N64-24856 17-27

VEHICLE REQUIREMENTS AND MISSION PLANNING FOR MANNED SPACE FLIGHT AND EXPLORATION OF MARS DURING 1975-1985 TIME PERIOD
AIAA PAPER-64-403 N64-25049 17-29

MANNED PLANETARY MISSIONS
NASA-TM-X-53049 N64-26979 19-29

MANNED INTERPLANETARY MISSIONS N64-26980 19-29

FLYBY MISSIONS TO VENUS AND MARS N64-26981 19-29

MANNED MARS MISSION N64-26983 19-29

MANNED MARS LANDING AND RETURN MISSION N64-26984 19-29

MANNED MARS MISSIONS FROM 1975-85 N64-26986 19-29

MANNED MARS MISSIONS FROM 1975-85 N64-26987 19-32

EARTH REENTRY VEHICLE FOR USE IN MANNED MARS

MISSION N64-26990 19-32

GUIDANCE AND CONTROL SCHEMES FOR MANNED LUNAR LANDING
NASA-CR-58073 N64-27392 19-23

CAMERAS FOR MANNED SPACE FLIGHT AND LUNAR PHOTOGRAPHY
NASA-TM-X-51878 N64-27802 19-15

SUMMARY REPORT TO CONGRESS ON NASA PROGRAMS - DATA ACQUISITION, MANNED SPACE FLIGHT, NUCLEAR POWER & PROPULSION, SATELLITE APPLICATIONS, TRACKING, AND INTERNATIONAL COOPERATION N64-29539 21-01

ORGANIZATION OF CLOSED ECOLOGICAL SYSTEMS FOR PROLONGED MANNED SPACE FLIGHT
NASA-TT-F-9131 N64-29730 21-16

MEDICAL ASPECTS OF MANNED SPACE FLIGHT
N64-30344 22-16

MEDICINE, AEROSPACE, AND MANNED SPACE FLIGHT
N64-30713 22-16

SPACE MEDICINE AND MANNED SPACEFLIGHT
N64-30714 22-16

CARRIER ROCKETS, INTERPLANETARY FLIGHTS, LIFE SUPPORT, MANNED SPACE FLIGHT, AND SPACE ENVIRONMENT HAZARDS
FTD-MT-64-227 N64-31774 23-29

ONBOARD TRAINING FOR MAINTAINING PILOT PROFICIENCY FOR EXTENDED SPACE FLIGHTS
NASA-TN-D-2162 N64-33080 24-14

HUMAN ADAPTATION TO ALTITUDE, HEAT, COLD, PHYSICAL EXERTION, ACCELERATION, RADIATION, IN SPACE FLIGHT
NASA-TT-F-9158 N64-33410 24-14

SATELLITE SYSTEM TO EVALUATE SOLAR FLARE AND RADIATION BELT HAZARD TO NEAR-EARTH MANNED SPACE MISSIONS
AFWL-TDR-64-67 N64-33552 24-32

GEMINI AND AGENA TELEMETRY FORMATS AND NETWORK STATION SYSTEMS FOR MANNED SPACE FLIGHT NETWORK
NASA TM-X-55099 N64-33567 24-08

CLOSED ECOLOGICAL SYSTEMS FOR WATER RECOVERY & WASTE UTILIZATION DURING MANNED SPACE FLIGHT
R63SD83 N64-33604 24-16

MANNED SPACECRAFT
CF UNMANNED SPACECRAFT
NASA MANNED SPACE FLIGHT PROGRAM AND SPACECRAFT CENTER FACILITIES N64-10611 01-04

EARTH-LANDING SYSTEMS FOR MANNED SPACECRAFT
AGARD-446 N64-13448 05-30

CONCEPTUAL DESIGN OF MANNED ORBITAL INSPECTION SYSTEM - ANTISATELLITE DEFENSE N64-15266 07-32

SELECTIVE MONITORING TECHNIQUES TO EXTRACT SIGNIFICANT INFORMATION FROM DATA TYPICAL OF THAT ORIGINATING IN MANNED SPACECRAFT
N64-16183 08-08

MANNED SPACECRAFT DISPLAY SYSTEMS AND THEIR EFFECT ON SPACEBORNE COMPUTER REQUIREMENTS
SSD-TDR-63-303 N64-16495 08-15

RESPIRATORY REQUIREMENTS FOR GAS MIXTURES IN MANNED SPACE CAPSULES
NAEC-ACEL-518 N64-17659 09-16

IMPORTANCE OF SOLAR-FLARE PROTON FUNCTIONS FOR SHIELDING OF MANNED SPACE VEHICLES
ORNL-3583 N64-17778 09-30

MULTIPURPOSE MANNED REENTRY VEHICLE CAPABLE OF ENTRY AT CIRCULAR TO HYPERBOLIC VELOCITIES - DESIGN STUDY
NASA-RP-151 N64-18323 10-29

CONTROLLABLE THRUST DEVICES FOR ESCAPING FROM MANNED SPACECRAFT
FA-R-1672 N64-18365 10-27

IBM 7090 COMPUTER PROGRAM TO CONTROL PRESCRIBED CHANGES IN MANNED ORBITAL SPACECRAFT
NASA-TN-D-2237 N64-18957 11-29

POWER SWITCHING WITH SUBMINIATURE SEALED RELAYS IN MANNED SPACECRAFT SYSTEMS N64-19502 12-09

ATTITUDE CONTROL OF MANNED SPACECRAFT PERFORMING ORBITAL TRANSFER, RENDEZVOUS, & LIFTING REENTRY MANEUVERS
FDL-TDR-64-32 N64-20084 13-30

APPLICATION OF HIGH MOMENT-PRODUCING TECHNIQUES FOR ATTITUDE CONTROL OF MANNED SPACECRAFT PERFORMING ORBITAL TRANSFER AND LIFTING REENTRY
FDL-TDR-64-32, SUMMARY N64-20149 13-30

GASEOUS ENVIRONMENTAL TESTING FOR MANNED SPACECRAFT N64-22073 15-16

AUTOMATIC AND MANUAL CONTROL OF MANNED SPACECRAFT
FTD-TT-63-24/1 N64-22338 15-32

ASTRONAUT BEHAVIOR ABOARD SATELLITE - REACTION TO WEIGHTLESSNESS, ACCELERATION, AND RADIATION HAZARD
N64-23638 16-16

SYMPOSIUM ON TOXICITY IN NUCLEAR SUBMARINES AND MANNED SPACECRAFT
AD-440942 N64-24606 17-16

MICROBIOLOGICAL CONTAMINATION OF MANNED AND UNMANNED SPACECRAFT N64-24611 17-16

INSTRUMENTATION FOR ANALYSIS OF MANNED SPACECRAFT CONTAMINATION N64-24620 17-15

ULTRAVIOLET, VISIBLE, & INFRARED SPECTROPHOTOMETRY FOR ANALYSIS OF MANNED SPACECRAFT
N64-24621 17-15

PHYSICAL PROPERTIES OF NONMETALLIC MATERIALS FOR MANNED SPACE VEHICLES
REPT.-6792 N64-25627 17-19

GEMINI PROGRAM TO STUDY MANNED SPACECRAFT OPERATIONS IN SPACE ENVIRONMENT
NASA-RP-239 N64-26038 18-32

ATTITUDE STABILIZATION OF MANNED SPACECRAFT BY TWIN GYROS AND PULSE-MODULATED REACTION JETS
NASA-TN-D-1645 N64-30092 21-06

THERMAL STRAIN ANALYSIS OF HEAT SHIELDS FOR MANNED SPACECRAFT - EQUATION DERIVATION AND FINITE DIFFERENCE FORMULATION
NASA-CR-54717 N64-30351 22-13

THERMAL STRESS OF HEAT SHIELD FOR MANNED SPACECRAFT WITH DERIVATION OF BASIC EQUILIBRIUM AND STRESS EQUATIONS
NASA-CR-54718 N64-30352 22-13

THERMAL STRAIN ANALYSIS OF HEAT SHIELDS FOR MANNED SPACECRAFT - EQUATION DERIVATION AND ENGINEERING MODEL
NASA-CR-54721 N64-30353 22-13

THERMAL STRAIN ANALYSIS OF HEAT SHIELDS FOR MANNED SPACECRAFT - BOUNDARY CONDITIONS AND ANALYSIS
NASA-CR-54120 N64-30354 22-13

THERMAL STRAIN ANALYSIS OF MANNED SPACECRAFT HEAT SHIELDS - BOUNDARY CONDITIONS, ENGINEERING MODELS, AXISYMMETRY, AND COMPUTER PROGRAM
NASA-CR-54719 N64-30355 22-13

SHIELDING AND WEIGHT FRACTIONS OF NUCLEAR PROPULSION SYSTEM FOR MANNED CAPSULES
NASA-CR-52964 N64-33133 24-27

MANOMETER
CF BLOOD PRESSURE
MANOMETRIC METHOD FOR DETERMINATION OF OXYGEN IN ORGANIC COMPOUNDS N64-17667 09-07

MCLEOD MANOMETER FOR DETERMINATION OF ABSOLUTE GAS

DENSITIES IN VACUUM - PRESSURE MEASUREMENT
RSIC-153 N64-22725 15-15

ATMOSPHERIC DENSITY MEASUREMENT USING MANOMETERS MOUNTED IN UNORIENTED SATELLITE
NASA-TT-F-8568 N64-23120 16-12

MEASURING LOW ABSOLUTE PRESSURE USING MANOMETER
FTD-TT-64-81/1&2&4 N64-25460 17-11

TEMPERATURE DISTRIBUTION IN HOLLOW CYLINDRICAL MANOMETER COLUMN WITH HEAT SOURCE AT LOWER END - MATHEMATICAL MODEL
IS-805 N64-28781 20-13

MANPOWER
CF PERSONNEL
FUNDS AND MANPOWER REQUIREMENTS FOR LONG RANGE PLANNING OF RESEARCH AND DEVELOPMENT PROJECTS
NASA-CR-53571 N64-18450 10-01

MANPOWER & PERSONNEL FOR ADVANCED WEAPON SYSTEMS - ESTIMATION OF REQUIREMENTS
AMRL-TDR-63-110 N64-18599 11-14

QUEUING MODEL FOR DETERMINING MANPOWER AND TRAINING - HUMAN ENGINEERING
AMRL-TDR-64-21 N64-19101 11-14

CALCULATION OF MANPOWER & EQUIPMENT REQUIREMENTS FOR MAINTENANCE OF MINUTEMAN ICBM SYSTEMS
RM-3308-PR N64-32524 23-10

MANUAL
MANUAL ON LAUNCHING OF EPE-D SPACECRAFT
NASA-TM-X-55103 N64-33568 24-10

MANUAL CONTROL
FIXED AND MOVING COCKPIT SIMULATOR TO STUDY ON-OFF REACTION CONTROL SYSTEM FOR MANUAL ATTITUDE STABILIZATION
NASA-TN-D-2068 N64-11246 02-03

AUTOMATIC & MANUAL LANDING SYSTEM - FLIGHT TEST
AGARD-425 N64-13447 05-10

MANUAL CONTROL SYSTEMS AND HUMAN OPERATOR PERFORMANCE
NASA-CR-55514 N64-16111 07-14

ADAPTIVE DYNAMIC RESPONSE OF HUMAN OPERATOR IN SIMPLE MANUAL CONTROL
NASA-TN-D-2255 N64-18734 11-14

MANUAL ATTITUDE CONTROL SYSTEMS - OPERATING MODES OF CONTROL
NASA-CR-56 N64-21421 14-06

AUTOMATIC AND MANUAL CONTROL OF MANNED SPACECRAFT
FTD-TT-63-24/1 N64-22338 15-32

TECHNIQUE FOR THRUST-VECTOR ORIENTATION DURING MANUAL CONTROL OF LUNAR LANDINGS FROM SYNCHRONOUS ORBIT
NASA-TN-D-2298 N64-23234 16-31

DETERMINATION OF ACCURACY OF MANUALLY RECORDING CELESTIAL-BODY-TRANSIT TIMES
NASA-TN-D-2433 N64-27925 20-05

MANUAL CONTROL OF APOLLO SPACECRAFT DURING ATMOSPHERIC ENTRY
NASA-TN-D-2467 N64-27946 20-14

MATHEMATICAL MODEL OF PERFORMANCE OF HUMAN OPERATOR IN VISUAL-MANUAL TRACKING SITUATION
TR-EE64-15 N64-30018 21-14

INTERVENING LEVELS OF CONTROL BETWEEN FULL MANUAL AND FULL AUTOMATIC - EFFECT UPON PILOT PERFORMANCE
AD-441953 N64-30199 21-14

PREDICTIVE INSTRUMENTATION TECHNIQUES FOR MANUAL AIRCRAFT CONTROL
MB-9202-0027 N64-30559 22-15

MANUAL CONTROL SYSTEMS STUDIES - MATHEMATICAL MODELS DEVELOPMENT, ADAPTIVE CHARACTERISTICS, AND MULTIAXIS VARIABLES
NASA-CR-59258 N64-33341 24-14

MANUFACTURING
ABSTRACT MODEL OF STATISTICAL CONTROL FOR MANUFACTURING PROCESSES OBTAINING MAXIMUM NET PROFIT - CYBERNETICS N64-12459 04-01

VISUAL AIDS FOR MANUFACTURING PERSONNEL IN PRODUCTION OF ATOMIC WEAPONS
SC-4959/M/ N64-14997 06-14

COST ESTIMATION OF MANUFACTURING RELAY DEVICES
N64-19505 12-17

MANUFACTURING PLANS FOR DYNA-SOAR PROGRAM
D2-80715 N64-21992 15-30

MANUFACTURING AND PRODUCTION METHODS FOR CYLINDRICAL TANKS
FTD-TT-62-1615/1&2 N64-22391 15-17

VACUUM DEGASSING IN MANUFACTURE OF HIGH STRENGTH STEEL
DMIC-200 N64-23250 16-18

FACTORY TEST PLAN FOR RIFT PROJECT MANUFACTURING
NASA-CR-56235 N64-23931 16-30

MANUFACTURING PLAN FOR REACTOR IN FLIGHT TEST /RIFT/ PROJECT - OPERATIONS RESEARCH
NASA-CR-56833 N64-25571 17-27

METAL INSULATION, FINISHING, PLATING, AND HERMETIC SEALING PROCESSES IN PRODUCTION OF RADIO AND ALLIED ELECTRONIC EQUIPMENT
OTS-61-31204 N64-26352 18-08

OPTIMIZATION OF MANUFACTURING PROCESS USING SET OF MACHINES N64-26379 18-17

MANUFACTURING AND CURRENT-VOLTAGE MEASUREMENTS OF THIN-FILM ELECTROLUMINESCENT CELLS
SMIR-63-3 N64-27235 19-25

DETERMINING CAPABILITY OF MANUFACTURING TAUT-BAND SUSPENSION ALTERNATING CURRENT VOLTAGE AND AMPERE METERS
QPR-4 N64-27960 20-17

TOOL PROGRAM FOR MANUFACTURING OF HARDWARE FOR REACTOR IN-FLIGHT TEST /RIFT/ PROJECT
NASA-CR-56508 N64-29564 21-17

ADVANCED FABRICATION PROCESSES FOR ELECTRONIC MODULES IN MICROELECTRONICS
IER-03-64-38 N64-33642 24-09

MANY-BODY PROBLEM
SOLUTION TO N-BODY SPACE MECHANICS PROBLEMS VIA NUMERICAL INTEGRATION - IBM 7090 - FORTRAN PROGRAM
NASA-TN-D-1730 N64-10174 01-20

BALLISTIC INTERPLANETARY TRAJECTORIES UNDER INFLUENCE OF MULTIPLE PLANETARY ATTRACTIONS - MANY-BODY PROBLEM
NASA-CR-53033 N64-13275 04-29

NATURAL SPIN ORBITALS AND EXPANSION COEFFICIENTS FOR MANY-BODY WAVE FUNCTIONS
AD-600166 N64-20844 14-23

REMOVAL OF ELECTRON-ELECTRON POLES FROM HAMILTONIAN OF MANY-ELECTRON PROBLEM
NASA-CR-56560 N64-23995 16-23

MODEL N-FERMION SYSTEM USED TO STUDY RANGE OF VALIDITY OF DIAGRAMATIC MANY-BODY PERTURBATION THEORY AND SUMMATIONS OF HIGHER ORDER GRAPH
TR-334 N64-24866 17-20

COMPUTER PROGRAM FOR CLASSICAL MANY-BODY PROBLEMS IN RADIATION DAMAGE
BNL-7979 N64-28808 20-25

ALGEBRAIC STRUCTURE OF MANY-BODY PROBLEM
NASA-CR-111 N64-31207 22-20

REGULARIZED EXPLICIT SOLUTION OF ANALYTIC MANY-BODY PROBLEM

NASA-CR-123 N64-32432 23-20

MANY-PARTICLE THEORY
QUANTUM THEORY OF MANY-PARTICLE SYSTEMS AND APPLICATION TO ELECTRONIC STRUCTURE OF MATTER
ARL-63-246 N64-16434 08-23

REMOVAL OF ELECTRON-ELECTRON POLES FROM MANY-ELECTRON HAMILTONIANS TO REDUCE DIFFICULTIES IN SOLUTION OF SCHROEDINGER EQUATION
N64-18053 10-23

MAP
CF CHART
MAPS & DATA FOR DISCERNIBLE CRATERS IN FIRST LUNAR QUADRANT - LUNAR SURFACE STUDY
NASA-CR-52401 N64-10374 01-29

RATIONAL PROFILING OF ISOOHMS FOR ELECTRICAL PROSPECTING MAPS
JPRS-17646 N64-10484 01-12

ROLE OF SIZE AND RESOLUTION OF DESIRED MAP IN RECORDING REQUIREMENT OF SYNTHETIC ARRAY DATA
SSD-TDR-63-224 N64-12271 03-15

MAPS AND TABULATED LISTINGS OF INFORMATION FROM PICTURES OBTAINED BY TIROS V AND VI
N64-12900 04-21

SCHEMATIC MAP OF STRUCTURE OF EARTH CRUST IN SIBERIA AND FAR EAST
JPRS-23133 N64-14537 06-12

PROBLEMS ENCOUNTERED IN MAPPING LUNAR SURFACE
N64-15285 07-05

TOPOGRAPHIC LUNAR MAP WITH LISTING OF NAMED FEATURES
N64-16443 08-05

PHYSICAL EPHEMERIS OF MARS AS FIRST STEP TOWARD ACCURATE MARTIAN MAP
NASA-CR-53117 N64-16758 08-05

COMPARISON OF EXISTING MAPS OF MARS AND LISTS OF AREOGRAPHIC COORDINATES
NASA-CR-53064 N64-16765 08-05

FREQUENCY CHECK, VECTOR VERIFICATION, & ELECTRON DENSITY MAP
AD-434155 N64-18777 11-25

MAPS SHOWING RADAR SITES FOR AIR TRAFFIC CONTROL
RD-64-26, SUPPL. 1 N64-19004 11-12

COMPILING OBJECTIVE FORECASTS FOR MAPS OF MEAN VALUE OF HIGH ALTITUDE HYDROGEN IN SYNOPTIC PERIOD
N64-19434 12-21

TECHNIQUES FOR COMPUTING LORAN MAPS
NWL-1902 N64-21320 14-22

ACCURACY OF LARGE SCALE MAPS
JPRS-24700 N64-22727 16-12

MULTIPLE LINEAR DISCRIMINANT ANALYSIS OF GEOLOGICAL AND GEOGRAPHIC FUNCTIONS
TR-11 N64-25981 18-20

MAPPING
CF CARTOGRAPHY
CF PHOTOGRAMMETRY
CF TOPOGRAPHY
MUSKHELISHVILI EXTENSION PRINCIPLE FOR MULTIVALUED MAPPING FUNCTIONS INVOLVING CORNERS AND CRACK STRESSES
WAL-TR-811.8/4 N64-10244 01-33

AUTOMATIC MAPPING OF GEOMAGNETIC FIELD & ELECTRIC CURRENT FLOW IN IONOSPHERE
NASA-RP-68 N64-10360 01-12

MAPPING OF NONLINEAR INVARIANT VECTOR-DYADIC EQUATIONS TO STATE VECTOR FORM FOR OPTIMAL CONTROL
TN-41 N64-10544 01-20

CATALOG OF MAPPING PROCEDURES FOR TIROS II RADIATION DATA UTILIZING AUTOMATIC DATA-PROCESSING EQUIPMENT
NASA-TM-X-51116 N64-10602 01-28

CATALOG OF MAPPING PROCEDURES FOR TIROS III RADIATION DATA UTILIZING AUTOMATIC DATA-PROCESSING EQUIPMENT
NASA-TM-X-51117 N64-10603 01-28

GENERAL QUADRATIC MAPPINGS REPRESENTED BY RECTILINEAR TRIANGLE NETS
E-T-6-65-5 N64-11939 03-20

IDEAL SYNTHETIC-APERTURE MAPPING RADAR SYSTEM
TDR-269/9990/-2 N64-12854 04-08

PARAMETRIC SPACE MAPPING OF GUIDED ELECTROMAGNETIC WAVES ON MAGNETOPLASMA COLUMN
AFCRL-63-398 N64-12856 04-24

BOUNDARY CORRESPONDENCE OF QUASI-CONFORMAL MAPPING IN SPACE
NRC-426 N64-12982 04-23

SOIL SCIENCE IN MAPPING ARID AREAS AND IN STUDYING EXTRATERRESTRIAL SOILS
NASA-CR-53021 N64-13271 04-12

GEOPHYSICS IN GEOLOGICAL MAPPING - AEROMAGNETISM, RADIOMETRY, AND SURFACE CHECKING OF AERIAL SURVEY
JPRS-23073 N64-14610 06-12

GEOPHYSICS IN GEOLOGICAL MAPPING - AEROMAGNETISM, ELECTROMAGNETIC FIELDS, AND RADIOMETRY
N64-14611 06-12

MAPPING ONE SET BINARY SEQUENCES INTO ANOTHER SET BY MULTILEVEL LOGIC
MH-TRANS-410 N64-14807 06-20

WAVEGUIDE WITH ARBITRARY CROSS SECTION CONSIDERED BY CONFORMAL MAPPING
NASA-CR-55509 N64-16110 07-08

AUTOMATED VERSION OF AS-11A ANALYTICAL STEREOPLOTTER - SYSTEM DESIGN AND ANALYSIS
RADC-TDR-63-539 N64-16972 09-15

MAPPING OF RADIATION AND DIFFRACTION OF ELECTRO-MAGNETIC WAVES
NASA-CR-53288 N64-17594 09-20

GEOPHYSICS & GEOLOGY - MAPPING & PROSPECTING FOR MAGNETIC MATERIALS
JPRS-24511 N64-20228 13-12

GENERALIZATION OF BANACH PRINCIPLE OF CONTRACTION MAPPINGS
NOLTR-64-39 N64-20451 13-20

IMAGE DESIGN FOR TERRAIN-MAPPING RADAR SYSTEMS
SSD-TDR-64-94 N64-20859 14-08

OPTIMIZED DIGITAL AUTOMATIC MAP COMPILATION SYSTEM
IR-3 N64-21522 15-20

MAPPING OF GEOGRAPHICAL DISTRIBUTION OF VEGETATION
JPRS-25347 N64-28007 20-16

DATA REDUCTION AND MAPPING PROCEDURES UTILIZING TIROS III FIVE-CHANNEL RADIOMETER DATA
NASA-TM-X-55047 N64-28088 20-08

HIGH POWER BEAM PLASMA AMPLIFIER - LANGMUIR PROBE PLASMA MAPPING VEHICLE
REPT.-5 N64-28626 20-69

COMPUTATION OF PARABOLIC AND ELLIPTIC WAVEGUIDES BY CONFORMAL MAPPING
NASA-CR-56797 N64-28973 20-23

THEORY OF FOCUSED SYNTHETIC-APERTURE MAPPING RADAR SYSTEM
SSD-TDR-64-125 N64-29582 21-08

OPTICAL MAPPING - COLLINEATION ON A PLANE USING PRODUCTS OF TWO POLAR CORRESPONDENCES
FTD-MT-63-317 N64-31479 23-20

MULTIVALUED HOMOMORPHIC MAPPINGS AND SUBDIRECT COVERS OF PARTIAL ALGEBRA

MRC-493 N64-31901 23-20

PROOFS OF THEOREMS ON DIFFERENTIABLE MAPPINGS
FTD-MT-63-332 N64-31914 23-20

COORDINATE TRANSFORMATIONS OF PLANE RESTRICTED THREE-BODY PROBLEM - CONFORMAL MAPPING
NASA-CR-59065 N64-32487 23-23

METHOD OF CONFORMAL MAPPING AND DETERMINATION OF STRESSES IN SOLID PROPELLANT ROCKET GRAINS
S-46 N64-32958 24-26

CONSTRUCTION TOOLS FOR ORTHOGONAL ARRAYS AND MAPPINGS
ARL-64-102 N64-33268 24-20

MARAGING STEEL
STRESS-CORROSION CRACKING OF TITANIUM ALLOY AND NICKEL MARAGING STEELS WITH COATINGS EVALUATION
LO414-01-22 N64-10543 01-33

EVALUATION OF MARAGING STEEL PLATE FOR LAUNCH VEHICLE USE
NASA-CR-52673 N64-11100 02-18

WELDING TESTS ON MARAGING STEELS
DMIC-MEMO-182 N64-12072 03-18

MARAGING STEEL FOR SPACE LAUNCH VEHICLE USE
NASA-CR-52412 N64-12164 03-18

FRACTURE TOUGHNESS OF NICKEL TYPE MARAGING STEEL
DMIC MEMO-181 N64-12310 03-18

FORGED NICKEL-COBALT-MOLYBDENUM MARAGING STEEL EVALUATION FOR USE IN AIRCRAFT COMPONENTS
FZM-2731 N64-12375 03-18

TOOL, MARAGING, AND STAINLESS STEELS FABRICATED INTO BIAXIAL PRESSURE VESSELS
AD-402636 N64-13074 04-17

STRESS CORROSION CHARACTERISTICS OF HIGH STRENGTH NICKEL MARAGING STEELS
REPT.-0414-02-1 N64-13867 05-18

STRESS-CORROSION IN 18-PERCENT NICKEL MARAGING STEEL OF VARYING COMPOSITION IN DIFFERENT ENVIRONMENTS AND WITH THREE TYPES OF COATING
REPT.-0414-02-2 N64-15376 07-18

ULTRAHIGH STRENGTH BAINITE AND SHEAR SPINNING & STRENGTHENING OF MARAGING STEEL
N64-15666 07-18

PHYSICAL METALLURGY OF 18 PERCENT NICKEL MARAGING STEELS
DMIC-194 N64-15709 07-18

STRENGTHENING MECHANISM IN MARAGING STEELS - THERMAL OR ATHERMAL COMPONENT
TDR-269/4240-10/-10 N64-17359 09-18

MECHANICAL AND METALLURGICAL PROPERTIES OF MARAGING STEEL PLATES FOR SPACE LAUNCH VEHICLES
NASA-CR-53416 N64-18106 10-18

DEGASSING CHROMIUM STEEL AND CASTING MARAGING STEEL
ASD-TDR-63-708 N64-18260 10-18

MECHANICAL PROPERTIES OF MARAGING STEEL - FRACTURE TOUGHNESS, YIELD STRENGTH
SM-43110 N64-18714 11-18

GRAIN SIZE, AGING, AND ANNEALING STUDIES OF NICKEL-COBALT-MOLYBDENUM MARAGING STEEL
SM-43111 N64-18715 11-18

METALLURGICAL HEAT TREATMENT OPTIMIZATION - RESULTS AND HYDROBURST PROCEDURE IN TESTING MARAGING STEEL CAPABILITIES FOR ROCKET MOTOR CASES
WADR-407-3 N64-18741 11-34

WELDABILITY OF NICKEL-COBALT-MOLYBDENUM MARAGING STEEL SHEET
SM-44648 N64-19024 11-18

STRESS CORROSION CRACKING OF NICKEL MARAGING HIGH STRENGTH STEELS
LO414-02-5 N64-19138 11-18

FORGING PROCEDURE AND MECHANICAL PROPERTIES OF NICKEL-COBALT-MOLYBDENUM MARAGING STEEL
FZM-2608 N64-20070 13-18

EFFECTS OF ALLOYING ELEMENTS AND IMPURITIES ON MECHANICAL PROPERTIES OF MARAGING STEEL
TP-360 N64-21015 14-18

MECHANICAL PROPERTIES OF 18 PERCENT NICKEL ALLOY MARAGING STEEL
DMIC-198 N64-21096 14-18

STRENGTH AND FRACTURE TOUGHNESS OF NICKEL-COBALT MOLYBDENUM MARAGING STEEL FOR HEAVY AND THIN WALL ROCKET MOTOR CASES
REPT.-3448 N64-21984 15-18

MARAGING STEEL IN ELEVATED TEMPERATURE AIRFRAME DESIGN
TFD-63-552 N64-22483 15-18

ULTRAHIGH STRENGTH NICKEL MARAGING STEEL SOLID PROPELLANT ROCKET MOTOR CASES
WAD-R-401-4 N64-22502 15-34

DELAYED FAILURE CHARACTERISTICS OF MARAGING STEELS
SM-43114 N64-22974 16-18

SPIN FORGE PROCESSING OF MARAGING STEELS
N64-23065 16-18

CONFERENCE ON MARAGING STEEL TECHNOLOGY
RTD-TDR-63-4048 N64-24351 17-18

ELECTRON BEAM WELDING OF MARAGING STEEL
N64-24352 17-18

WELDING OF MARAGING STEEL N64-24353 17-18

TENSILE & YIELD STRENGTH OF MARAGING STEELS
N64-24354 17-34

PLANE STRAIN FRACTURE TOUGHNESS OF MARAGING STEEL
N64-24355 17-33

PLASTIC ZONE IN FRACTURE OF MARAGING STEEL
N64-24356 17-18

HYDROBURST TESTS OF SOLID PROPELLANT ROCKET MOTOR CASE OF MARAGING STEEL WITH WELDED JOINTS
N64-24357 17-17

MECHANICAL PROPERTIES OF CYLINDRICAL SHELLS FORMED BY SPIN FORGING OF 18 PERCENT NICKEL MARAGING STEEL N64-24358 17-17

TENSILE STRENGTH AND FRACTURE TOUGHNESS TESTS OF 18 PERCENT NICKEL MARAGING STEEL
N64-24359 17-18

ANISOTROPY IN YOUNGS MODULUS FOR 18 PERCENT NICKEL MARAGING STEEL N64-24360 17-18

FRACTURE TOUGHNESS OF 18 PERCENT NICKEL MARAGING STEEL N64-24361 17-18

MARAGING STEEL FRACTURE TOUGHNESS AT ULTRAHIGH STRENGTH LEVELS N64-24362 17-18

MECHANICAL PROPERTIES OF 18 PERCENT NICKEL MARAGING STEEL AT LOW AND CRYOGENIC TEMPERATURES
N64-24363 17-18

ORIENTATION DEPENDENCE OF TENSILE STRENGTH AND FRACTURE TOUGHNESS OF 25 PERCENT NICKEL MARAGING STEEL PREPARED BY UNIDIRECTIONAL SOLIDIFICATION
N64-24364 17-18

TENSILE STRENGTH AND FATIGUE TESTS OF 18 PERCENT NICKEL MARAGING STEEL AND 9 PERCENT NICKEL STEEL
N64-24365 17-18

MECHANICAL PROPERTIES AND TENSILE STRENGTH OF 18 PERCENT NICKEL MARAGING STEEL PRODUCED BY INVESTMENT CASTING N64-24366 17-17

FRACTURE TOUGHNESS AND STRESS CORROSION OF 9 PERCENT AND 18 PERCENT NICKEL MARAGING STEELS AND OTHER HIGH STRENGTH STEELS N64-24367 17-33

HYDROBURST TESTING OF LIGHTWEIGHT PRESSURE VESSELS MADE OF LAMINATED MARAGING STEEL N64-24368 17-33

MECHANICAL PROPERTIES OF 18 PERCENT NICKEL MARAGING STEEL AT NORMAL AND HIGH TEMPERATURES N64-24369 17-18

EFFECTS OF RESIDUAL ELEMENTS ON DUCTILITY AND TENSILE STRENGTH OF MARAGING STEELS N64-24370 17-18

TENSILE STRENGTH AND FATIGUE TESTS AND STRESS CORROSION TESTS OF BOLTS AND OTHER SAMPLES OF 18 PERCENT NICKEL MARAGING STEEL N64-24371 17-18

SHEET THICKNESS EFFECT ON TOUGHNESS OF MARAGING STEEL
RK-TR-64-8 N64-25178 17-18

CRITICAL STRESS INTENSITY PARAMETER OF 300-GRADE 18-NICKEL MARAGING STEEL AS INFLUENCED BY SPECIMEN TYPE AND THERMAL AND MECHANICAL TREATMENT
TR-3 N64-25396 17-18

STRESS CORROSION CRACKING OF NICKEL MARAGING AND MARTENSITIC HIGH STRENGTH STEELS
LO414-02-8 N64-26873 18-33

EFFECT OF CRACK SHAPE ON FRACTURE TOUGHNESS OF MARAGING STEEL
SM-44671 N64-27370 19-18

METALLURGY, MECHANICAL PROPERTIES, AND WELDING PROPERTIES OF MARAGING STEEL
ASD-TDR-62-996 N64-30923 22-18

ULTRAHIGH STRENGTH CASES FOR SOLID PROPELLANT ROCKET ENGINES OF MARAGING STEEL
WAD-R-407F N64-30969 22-17

TENSILE, AGING RESPONSE, AND FRACTURE PROPERTIES OF 18 PERCENT NICKEL MARAGING STEEL FOR LARGE DIAMETER SOLID PROPELLANT ROCKET ENGINE
ML-TDR-64-115 N64-31895 23-18

OPTIMUM COMPOSITION OF MARAGING STEELS FOR NOTCH TOUGHNESS
AD-600932 N64-32408 23-18

STRESS-CORROSION CRACKING OF MARAGING, LOW ALLOY MARTENSITIC, AND HOT WORKED DIE STEELS
REPT.-2914 N64-32533 23-18

DEFORMATION UNDER PRESSURE TESTS ON NICKEL, MARAGING STEELS, MAGNESIUM OXIDE, TUNGSTEN-TANTALUM ALLOY, AND CHROME-MAGNESIUM COMPOSITE
NASA-CR-58946 N64-33097 24-18

MARE
TELESCOPIC AND PHOTOGRAPHIC DESCRIPTION OF LUNAR MARIA AND HIGHLAND CRATERS
NASA-CR-55172 N64-13334 04-29

THREE-COLOR PHOTOMETRY OF LUNAR MARE DURING LUNAR ECLIPSE
SUI-64-19 N64-24069 16-23

MARINE NAVIGATION
AUTOMATION IN INDUSTRY AND INSTRUMENTATION FOR REMOTE CONTROL NAVIGATION OF SHIPS - CYBERNETICS
JPRS-22345 N64-11917 03-16

METEROLOGICAL OBSERVATIONS AT SEA, MAGNETIC OBSERVATIONS IN THE PACIFIC OCEAN, AND MARINE GEODETIC SURVEYING
JPRS-21410 N64-12141 03-21

MARINER II SPACE PROBE
TEMPERATURE CONTROL OF MARINER II SPACECRAFT WITH DATA FOR MONITORED COMPONENTS
NASA-CR-52463 N64-10338 01-32

MARINER II OBSERVATION OF VENUS SURFACE PROPERTIES BY RADIATION MEASUREMENTS N64-10343 01-32

MAGNETIC FIELDS IN CORONA AND SOLAR WIND AS MEASURED BY MARINER II SPACE PROBE
NASA-CR-52928 N64-12096 03-28

MARINER II SOLAR-WIND VELOCITY DATA AND ITS CORRELATION WITH COSMIC-RAY VARIATIONS AND SOLAR & GEOMAGNETIC ACTIVITY
NASA-CR-53027 N64-13282 04-28

MARINER II TRANSMISSION OF SCIENTIFIC AND ENGINEERING DATA DURING VENUS FLIGHT
NASA-CR-55369 N64-14267 06-32

RANGER & SURVEYOR PROJECTS, DEEP SPACE INSTRUMENTATION FACILITY, AND MARINER C & II
NASA-CR-53058 N64-15793 07-29

MARINER II INFRARED RADIOMETER EXPERIMENT
NASA-CR-53078 N64-15964 07-32

MARINER II SPACECRAFT MICROWAVE RADIOMETER EXPERIMENT & VENUS SPACE PROBE N64-22439 15-32

SOLAR CORPUSCULAR STREAMS AND GEOMAGNETIC STORMS DURING FLIGHT OF MARINER II SPACE PROBE
NASA-TT-F-8877 N64-23048 16-28

AUTOMATIC MARINER II AND MARS I SPACE STATIONS
FTD-TT-63-301/1&4 N64-23425 16-31

SPATIAL MODEL OF GEOMAGNETIC FIELD OF EFFECTIVE SOLAR CORPUSCULAR FLUX BASED ON MARINER II MEASUREMENTS
NASA-TT-F-8904 N64-25288 17-12

REDUCTION OF DATA FROM MARINER II MAGNETOMETER AND DESIGN OF ELECTRONIC PULSE DETECTION CIRCUITS
NASA-CR-58043 N64-26364 18-29

MINIMUM POWER DIGITAL CIRCUITS FOR MARINER II AND OTHER SPACECRAFT N64-26446 18-09

DETECTION OF THIN FILM RADIATION EXPOSURE USING MARINER II SPACE PROBE
NASA-CR-58122 N64-26600 18-19

MARINER II MEASUREMENTS OF SOLAR PLASMA STREAMS FROM PLAGE REGIONS AND FROM FLARES N64-30280 22-28

UNMANNED INTERPLANETARY FLIGHT - ENGINEERING PROBLEMS OF MARINER II SPACE PROBE N64-30337 22-29

DESIGN, ENGINEERING, AND FLIGHT HISTORY OF MARINER II SPACE PROBE N64-30513 22-32

MARINER A PROGRAM
PLASMA PROBE FOR MARINER A SPACECRAFT, TO DETERMINE DENSITY, ENERGY SPECTRA, AND DIRECTION OF MOTION OF PROTONS AND ELECTRONS IN PLASMA
NASA-CR-56794 N64-27821 19-32

MARINER B PROGRAM
PROPELLED CAPSULE APPROACH FOR MARINER B SPACECRAFT USING DATA FOR MARS TRAJECTORY
NASA-CR-52535 N64-10902 02-29

RELIABILITY OF MARINER B TELECOMMUNICATIONS
NASA-CR-53056 N64-15780 07-32

DRAG AND STABILITY INVESTIGATIONS OF MARINER-B SHAPE A-1 AND JPL CONFIGURATION V-1 AT VELOCITIES FROM 13,000 TO 16,000 FPS IN VARYING ATMOSPHERES
NASA-CR-55543 N64-16321 08-29

MARINER C PROGRAM
RANGER & SURVEYOR PROJECTS, DEEP SPACE INSTRUMENTATION FACILITY, AND MARINER C & II
NASA-CR-53058 N64-15793 07-29

LEAD SELENIDE DETECTOR AND REFRIGERATION ASSEMBLY FOR MARINER C PROGRAM
NASA-CR-56173 N64-20739 13-15

LOW FIELD HELIUM MAGNETOMETER FOR MARINER C SPACECRAFT
NASA-CR-56557 N64-27898 20-15

MARINER PROGRAM
RANGER, SURVEYOR, & MARINER PROJECTS AND DEEP SPACE INSTRUMENTATION FACILITY
NASA-CR-53834 N64-19595 12-32

MARINER MARS MISSION
D2-23177 N64-25687 17-32

MISSION PLANS FOR MARINER MARS 1964 N64-33856 24-32

MARINER PROJECT
SPACE PROGRAM SUMMARIES - RANGER PROJECT, SURVEYOR PROJECT, MARINER PROJECT, DEEP SPACE COMMUNICATION SYSTEM, AND SPACE INSTRUMENT DEVELOPMENT
NASA-CR-59340 N64-33813 24-32

MARINER R PROGRAM
MARINER R PROGRAM SPECIFICATIONS, DESIGN CHANGES, AND EVALUATION
NASA-CR-55205 N64-13180 04-32

COMPONENT RELIABILITY AND FAILURE OF MARINER R SPACECRAFT SYSTEMS
NASA-CR-58070 N64-27801 19-32

MARINER SPACE PROBE
MARS AND VENUS IONOSPHERE TOPSIDE SOUNDER FOR MARINER SPACECRAFT
NASA-CR-52731 N64-10903 02-29

SCIENTIFIC EXPERIMENTS, INSTRUMENTATION, AND DATA FROM MARINER VENUS MISSION
NASA-RP-271 N64-26516 18-32

MISSION FOR MARINER SPACE PROBE IN LATE 1964 TO MARS VICINITY AND RETURN N64-26926 18-29

MARKOV CHAIN
ESTIMATION OF VECTOR VALUES IN FINITE STATIONARY ERGODIC MARKOV CHAINS AND CONVERSES TO CODING THEOREM FOR CONTINUOUS MEMORYLESS CHANNELS
NASA-CR-53085 N64-17164 09-20

MAXIMUM LIKELIHOOD ESTIMATION OF VECTOR PARAMETER IN FINITE STATIONARY ERGODIC MARKOV CHAINS N64-17165 09-20

DISCRETE TIME PARAMETER MARKOV CHAIN WITH FINITE STATE SPACE
CU-72-64-NONR-266/33/MS N64-22549 15-20

MOMENTS OF ABSORPTION TIME IN FINITE MARKOV CHAIN
BU-163-M N64-23922 16-20

THEOREMS ON FUNCTIONALS OF MARKOV CHAINS
RM-3985-PR N64-25622 17-20

DECISION THEORY IN STOCHASTIC SYSTEMS - MARKOV CHAIN MATRIX
REPT.-64-25 N64-32798 24-20

RANDOMIZED AND PROGRAMMED LOAD SEQUENCES WITH TRANSITION PROBABILITIES BASED ON MARKOV CHAIN
TR-4 N64-33321 24-33

MARKOV PROCESS
HITTING AND MARTINGALE CHARACTERIZATIONS OF ONE-DIMENSIONAL DIFFUSION - MARKOV PROCESS
MIT-TR-419 N64-18063 10-23

GAME THEORY, SERVICE SYSTEMS WITH HEAVY WORK LOADS, AND MARKOV PROCESSES N64-18516 11-20

MARKOVIAN SEQUENTIAL DECISION PROCESSES IN DETERMINING OPTIMAL RULES FOR STOCHASTIC SYSTEMS
TR-20 N64-31623 23-20

LIMITING COVARIANCE IN MARKOV RENEWAL PROCESSES - OPERATIONS RESEARCH
ORC-64-16/RR/ N64-33312 24-20

MARS I SPACECRAFT
LIFE SUPPORT SYSTEMS, IL-62 TURBOJET AIRCRAFT, MARS-I SPACECRAFT, AND GYRATING ENGINES
JPRS-18565 N64-10773 02-01

INTERPLANETARY FLIGHT BY SPACE PROBE - MARS-I SPACECRAFT N64-10776 02-29

MARS-I SPACECRAFT FOR OUTER ATMOSPHERE STUDY & RADIO LOCATION OF MARS, VENUS, & MERCURY N64-12890 04-29

TELEMETRIC COMMUNICATION WITH AND CONDITIONS IN MARS-I SPACECRAFT, AND SPACECRAFT TRAJECTORY CONSIDERATIONS
FTD-TT-63-94/1&2&4 N64-13158 04-29

DESCRIPTION OF INTERPLANETARY STATION MARS I
FTD-TT-62-1921/1&2 N64-18258 10-29

METHODS FOR CONTROL OF TRAJECTORY OF MARS I SPACECRAFT
FTD-TT-63-131/1&2 N64-19744 12-29

INVESTIGATION OF METEORIC MATTER ALONG FLIGHT TRAJECTORY OF MARS I INTERPLANETARY STATION USING PIEZOELECTRIC TRANSDUCERS N64-21639 15-29

METEOR MATERIAL ALONG FLIGHT TRAJECTORY OF MARS I SPACECRAFT DETECTED BY PIEZOELECTRIC SENSORS
NASA-TT-F-8570 N64-23122 16-29

AUTOMATIC MARINER II AND MARS I SPACE STATIONS
FTD-TT-63-301/1&4 N64-23425 16-31

SOVIET DEEP SPACE PROBE MARS I - COSMIC RADIATION AND MICROMETEORITE DENSITY MEASUREMENTS
FTD-TT-64-86/1&2 N64-26728 18-32

OBSERVATIONS ON SOLAR AND COSMIC RADIATION INTENSITY, PARTICLES AND PLASMA LAYER DISTRIBUTION, AND MAGNETIC FIELD VARIATIONS FROM MARS I SPACECRAFT
FTD-TT-64-237/1&2&3&4 N64-33221 24-29

SPACE EXPLORATION - OBSERVATIONS FROM COSMOS SATELLITES, MARS I, AND VOSTOK SPACECRAFT
FTD-MT-63-345 N64-33704 24-28

MARS /PLANET/
SA MARS ATMOSPHERE
SA MARS SURFACE
EMPIRE PROGRAM MARS AND VENUS FLYBY MISSION
NASA-CR-52677 N64-10907 02-29

MARS-I SPACECRAFT FOR OUTER ATMOSPHERE STUDY & RADIO LOCATION OF MARS, VENUS, & MERCURY N64-12890 04-29

ATMOSPHERE AND GEOLOGY OF MARS
JPRS-22878 N64-14146 05-29

MAPS FOR OBTAINING DEPARTURE AND ARRIVAL SPEEDS FOR TRIPS TO MARS AND VENUS - CONSTANTS & PLANETARY EPHEMERIDES
NASA-SP-35, PT. 1 N64-14175 06-29

TRAJECTORY DATA FOR SCHEDULING FLIGHTS TO VENUS AND MARS, 1960-2000
NASA-SP-35, PT. 2 N64-14176 06-29

TRAJECTORY DATA FOR SCHEDULING FLIGHTS FROM VENUS AND MARS TO EARTH, 1960-2000
NASA-SP-35, PT. 3 N64-14177 06-29

EVIDENCE FOR EXISTENCE OF LIFE ON MARS N64-14741 06-16

RADAR STUDY OF PLANET MARS - SURFACE, ROTATION, SURFACE CONDUCTIVITY, AND ASTRONOMICAL UNIT
NASA-CR-53051 N64-14844 06-29

TELECOMMUNICATIONS SYSTEM FOR MANNED MARS SPACE FLIGHT
NASA-CR-53047 N64-14845 06-29

AVERAGE SURFACE TEMPERATURE OF PLANET MARS COMPUTED FROM RADIATION EQUILIBRIUM N64-14929 06-29

DESIGN PROBLEMS CONNECTED WITH CONSTRUCTION OF BASING FACILITIES ON MARS
P-2747 N64-16289 08-10

MARS OBSERVATION WITH STRATOSCOPE II TELESCOPE

N64-16675 08-15

INTERNAL STRUCTURE AND STRENGTH OF MOON, MARS, VENUS, AND MERCURY
NASA-TR-R-173 N64-17518 09-05

MARS NONSTOP ROUND-TRIP TRAJECTORIES USING GRAVITY SUPPLEMENTED BY PROPULSION OR AERODYNAMIC FORCES
NASA-RP-154 N64-18324 10-29

STUDY OF MARS & MOON - METEOROLOGY & ASTROPHYSICS
N64-19355 12-29

SURVIVAL OF TERRESTRIAL MICROORGANISM UNDER SIMULATED MARTIAN CONDITIONS N64-19583 12-99

DIAMETERS, ELLIPTICITIES, & SPECTRAL ALBEDOS OF MERCURY, VENUS, AND MARS
NASA-CR-53507 N64-19984 12-05

VOYAGER PROJECT - SYSTEMS ANALYSIS AND PARAMETRIC STUDY OF ORBITER-LANDER SPACECRAFT FOR MARS OR VENUS MISSIONS
RAD-TM-63-17, VOL. 1 N64-20021 13-30

THREE-COLOR PHOTOGRAPHY OF MARS
N64-20886 14-05

FLIGHT CONDITIONS FROM EARTH TO MARS
FTD-TT-63-93/1&2&4 N64-21659 15-29

GAS CHROMATOGRAPHIC DETECTION OF ORGANIC COMPOUNDS ON MOON AND MARS
NASA-CR-50183 N64-22753 16-15

GULLIVER PROGRAM - MARS EXTRATERRESTRIAL LIFE DETECTION AND ANALYSIS
NASA-CR-55511 N64-22755 16-16

INFRARED SPECTRUM OF MARS - THEORY OF PRESENCE OF EXTRATERRESTRIAL LIFE
NASA-CR-50208 N64-22764 16-16

GAS CHROMATOGRAPHY FOR DETECTION OF LIFE ON MARS
NASA-TM-X-50806 N64-22773 16-16

PHOTOGRAPHIC RECORDINGS OF MARS
NASA-CR-51173 N64-22779 16-05

FEASIBILITY OF FLIGHT TO MARS N64-23640 16-29

RADIATIVE ENERGY TRANSFER ON ENTRY INTO MARS AND VENUS ATMOSPHERES
NASA-CR-56554 N64-24106 16-13

MANNED MARS MISSION USING ELECTRIC PROPULSION SYSTEMS
AIAA PAPER-64-498 N64-24166 16-27

SPACECRAFT DECELERATION BY AERODYNAMIC BRAKING TO ESTABLISH ORBIT ABOUT MARS
AIAA PAPER-64-479 N64-24812 17-29

VEHICLE REQUIREMENTS AND MISSION PLANNING FOR MANNED SPACE FLIGHT AND EXPLORATION OF MARS DURING 1975-1985 TIME PERIOD
AIAA PAPER-64-403 N64-25049 17-29

MARINER MARS MISSION
02-23177 N64-25687 17-32

FREQUENCY DEPENDENCE OF POLARIZATION OF LIGHT FROM MARS AND MOON
AFCRL-64-442 N64-25760 17-29

RADIO EMISSION THEORY OF VENUS AND MARS
NASA-TT-F-8923 N64-26541 18-05

MISSION FOR MARINER SPACE PROBE IN LATE 1964 TO MARS VICINITY AND RETURN N64-26926 18-29

FLYBY MISSIONS TO VENUS AND MARS
N64-26981 19-29

FEASIBILITY OF MARS LANDING AND RETURN MISSIONS
N64-26982 19-29

MANNED MARS MISSION N64-26983 19-29

MANNED MARS LANDING AND RETURN MISSION
N64-26984 19-29

MANEUVERABLE LANDING SYSTEM FOR MARS LANDING
N64-26985 19-29

MANNED MARS MISSIONS FROM 1975-85
N64-26986 19-29

MANNED MARS MISSIONS FROM 1975-85
N64-26987 19-32

SUBSYSTEMS FOR MARS MISSION MODULE
N64-26988 19-29

EARTH REENTRY VEHICLE FOR USE IN MANNED MARS MISSION N64-26990 19-32

INFRARED SPECTRUM OF MARS USING DIFFRACTION AND PRISM TYPE SPECTROMETERS
NASA-TT-F-9010 N64-27135 19-05

HELIOCENTRIC EARTH MARS RENDEZVOUS ORBITS AND PLANET-CENTERED ESCAPE TRAJECTORIES
NASA-CR-56975 N64-27451 19-29

EARTH MARS RENDEZVOUS TRAJECTORY DATA FOR POSSIBLE LAUNCHES IN 1964
NASA-CR-56976 N64-27452 19-29

REEVALUATION OF PHOTOGRAPHIC PLATES OF MARS
NASA-CR-58354 N64-28841 20-05

RADIATIVE HEAT TRANSFER ON ATMOSPHERIC ENTRY TO MARS OR VENUS - DISSOCIATION RATE OF CARBON MONOXIDE AT HIGH TEMPERATURES
NASA-CR-58574 N64-29185 21-24

EARTH-MARS BALLISTIC TRAJECTORIES - 1964 TO 1977
NASA-CR-58244 N64-29408 21-29

DESCRIPTION AND APPLICATION OF BALLISTIC TRAJECTORY DATA FOR EARTH-MARS-EARTH MISSION
FZM-4163-1 N64-29607 21-29

LECTURES IN AEROSPACE MEDICINE - LIFE SUPPORT SYSTEMS, HUMAN PERFORMANCE, AND LANDING SIMULATION FOR MANNED LUNAR LANDING, ORBITING LABORATORY, AND MARS MISSIONS
AD-445253 N64-30712 22-16

EXPLORATORY BASES FOR MARS N64-30731 22-10

PARAMETRIC STUDY OF CONSTANT THRUST ELECTRICALLY PROPELLED MARS AND VENUS ORBITING PROBES
NASA-TN-D-2154 N64-32402 23-32

MISSION PLANS FOR MARINER MARS 1964
N64-33856 24-32

MARS ATMOSPHERE
MARS AND VENUS IONOSPHERE TOPSIDE SOUNDER FOR MARINER SPACECRAFT
NASA-CR-52731 N64-10903 02-29

EXPERIMENTS FOR MARTIAN AND VENUSIAN ATOMSPHERE PROBE
NASA-TN-D-1899 N64-11234 02-29

RADIANT HEAT TRANSFER IN ATMOSPHERES OF VENUS AND MARS N64-11650 03-29

RADIATIVE & CONVECTIVE HEATING OF SHAPES ENTERING ASSUMED ATMOSPHERES OF MARS & VENUS AT SUPERORBITAL SPEEDS
NASA-TN-D-2064 N64-11903 03-13

MODEL ATMOSPHERES FOR THERMODYNAMIC PROPERTIES AND SURFACE PRESSURE, TEMPERATURE, AND DENSITY STUDIES OF PLANET MARS
SM-44552 N64-11942 03-29

PROBABLE UPPER AND LOWER LIMITS FOR DISTRIBUTION OF ATMOSPHERIC PRESSURE AND MASS DENSITY IN UPPER ATMOSPHERE OF MARS

RM-3885 N64-12274 03-29

GERMINATION AND GROWTH OF BACTERIAL SPORES IN SIMULATED MARTIAN ENVIRONMENT
SAM-TDR-63-75 N64-12340 03-16

THEORETICAL COMPUTATION OF AVERAGE VERTICAL TEMPERATURE DISTRIBUTION IN MARS ATMOSPHERE
NASA-CR-52414 N64-12950 04-28

MARS AND VENUS METEOROLOGY - MARS ATMOSPHERE TIDES AND THERMODYNAMIC DIAGRAMS, AND VENUS ATMOSPHERE ABSORPTION OF SOLAR ENERGY AND TEMPERATURE PROFILE
NASA-CR-55165 N64-13066 04-29

MARS ATMOSPHERIC ENTRY STUDY OF VELOCITY, ANGLE, AND BALLISTIC COEFFICIENT
NASA-CR-53020 N64-13273 04-28

NEW UPPER LIMIT FOR WATER VAPOR CONTENT OF MARS ATMOSPHERE FROM HIGH DISPERSION SPECTROGRAM
NASA-CR-53004 N64-13274 04-28

THEORETICAL STUDY OF MARTIAN IONOSPHERE COMPARED TO TERRESTRIAL IONOSPHERE
NASA-CR-55362 N64-14270 06-29

COMPARISON OF ABSORPTION SPECTRA OF VOLCANIC FLAME AND SMOKE WITH SPECTRA OF MARS & VENUS ATMOSPHERES
FTD-TT-63-305/1&4 N64-16362 08-05

COMPOSITION OF MARS ATMOSPHERE, OBSERVED IN FIRST FLIGHT OF STRATOSCOPE II TELESCOPE
N64-16678 08-05

RADIATIVE EQUILIBRIUM DISTRIBUTION OF TEMPERATURE IN VENUS ATMOSPHERE AND AVERAGE ANNUAL RADIATION BUDGET AT TOP OF MARTIAN ATMOSPHERE
NASA-CR-53285 N64-17593 09-29

ANALYSIS OF HIGH RESOLUTION SPECTROGRAM - COMPOSITION OF MARS ATMOSPHERE
NASA-CR-53573 N64-18454 10-05

METEOROLOGICAL OBSERVATIONS OF MARTIAN ATMOSPHERE DURING 1962-63 OPPOSITION N64-19356 12-29

MARS ATMOSPHERIC CIRCULATION N64-19357 12-29

TEMPERATURE CONTROL SYSTEM FOR MARS ATMOSPHERE ENTRY VEHICLE
NASA-CR-56178 N64-20743 13-13

RADIATIVE AND CONVECTIVE HEAT TRANSFER EFFECTS ON TEMPERATURE VARIATION IN MARTIAN ATMOSPHERE
GCA-TR-62-7-N N64-22076 15-29

RADIATIVE TRANSPORT FROM HOT GASES SIMULATING MARS-VENUS ATMOSPHERIC COMPOSITION
NASA-RP-174 N64-22413 15-13

BACTERIAL SURVIVAL IN SIMULATED MARTIAN ENVIRONMENT
NASA-CR-50516 N64-22759 16-16

BACTERIA UNDER SIMULATED MARTIAN ENVIRONMENT
NASA-TM-X-50873 N64-22777 16-16

COMMUNICATION BLACKOUT OF BLUNT BODY DURING ENTRY INTO MARS ATMOSPHERE
NASA-CR-56459 N64-24039 16-29

MOISTURE ANALYZER FOR DETERMINING TEMPERATURE OF MARS ATMOSPHERE
NASA-CR-56454 N64-24042 16-29

ATMOSPHERIC COMPOSITION INSTRUMENTATION FOR TEMPERATURE DETERMINATION OF MARS ATMOSPHERE
NASA-CR-56453 N64-24043 16-15

ENTRY VEHICLE PROBLEMS RELATED TO MARS ENTRY OF UNMANNED PROBE AND TO EARTH ENTRY ABOVE ESCAPE SPEED
AIAA PAPER-64-528 N64-24169 16-27

HYDROSPHERE UNDER MARTIAN CONDITIONS - DETECTION OF WATER VAPOR WITH OCEANOGRAPHIC TECHNIQUES
N64-24774 17-29

MARS AND VENUS IONOSPHERES
NASA-TN-D-2333 N64-24816 17-29

MOLECULAR OPTICAL THICKNESS OF LOW DENSITY MODELS OF ATMOSPHERE OF MARS
R64SD21 N64-24975 17-29

VENUS AND MARS ATMOSPHERE ENTRY SIMULATED BY COMBUSTION HEATED HYPERVELOCITY WIND TUNNEL
NASA-CR-56461 N64-25690 17-13

ATMOSPHERES OF MARS, VENUS, AND JUPITER
NASA-TN-D-2303 N64-25709 17-29

MARS ATMOSPHERIC AIRGLOW
NASA-RP-250 N64-26310 18-29

RADIATIVE HEAT TRASFER IN ATMOSPHERES OF VENUS AND MARS
NASA-RP-251 N64-26314 18-05

THERMAL DISSOCIATION OF CARBON DIOXIDE FOR TEMPERATURES FROM 6000 TO 10000 DEG K - HIGH TEMPERATURE PROPERTIES OF MARS & VENUS ATMOSPHERES
NASA-CR-56537 N64-27302 19-07

THEORY OF ATMOSPHERIC TIDES FOR EARTH APPLIED TO MARS ATMOSPHERE
NASA-CR-97 N64-28316 20-12

CONTRADICTION OF ARTICLE ON EXPLANATION OF COLOR OF MARS BY SPECTRAL PROPERTY ANALYSIS OF ATMOSPHERE
T-R-423 N64-28625 20-05

OBSERVATORY DATA ON MARS ATMOSPHERE AND SURFACE
T-R-426 N64-29597 21-05

MARTIAN ATMOSPHERE PROFILE FROM MOTION OF VEHICLE LAUNCHED FROM ENTRY FLYBY BUS N64-31091 22-32

PARTICLES AND RADIATION IN MARS ATMOSPHERE
RM-222 N64-32156 23-29

SPECTROSCOPIC ANALYSIS OF SOLAR, MARS, & JUPITER ATMOSPHERES
NASA-CR-59060 N64-32492 23-29

DETERMINATION OF PHYSICAL PROPERTIES OF MARS ATMOSPHERE FROM CHANGES IN DOPPLER SIGNAL OF SPACECRAFT ON EARTH OCCULTATION TRAJECTORY
NASA-CR-59161 N64-33000 24-29

POWER HANDLING CAPABILITY AND BREAKDOWN POWER LEVEL OF TYPICAL LINEAR AND CIRCULARLY POLARIZED ANTENNAS IN SIMULATED MARS AND VENUS ATMOSPHERES
NASA-CR-59111 N64-33094 24-08

METEOROLOGY OF VENUS, MARS, AND JUPITER
NASA-CR-58848 N64-33165 24-29

MARS EXCURSION MODULE /MEM/
DESIGN OF MANNED MARS EXCURSION MODULE
N64-26989 19-32

MARS SURFACE
COMPARISON OF EXISTING MAPS OF MARS AND LISTS OF AREOGRAPHIC COORDINATES
NASA-CR-53064 N64-16765 08-05

SURVIVAL OF MICROORGANISMS IN SIMULATED ENVIRONMENT OF MARS SURFACE N64-25115 17-16

CARTOGRAPHY OF VISIBLE FEATURES OF MARS SURFACE
AFCRL-64-396 N64-25475 17-29

ESTIMATES OF AVERAGE MARS SURFACE TEMPERATURE
GCA-TR-62-3-N N64-27815 19-05

ELECTROPHOTOMETRIC, PHOTOGRAPHIC, AND POLARIMETRIC OBSERVATIONS OF MARS SURFACE AND ATMOSPHERE
T-R-427 N64-28868 20-05

INVESTIGATIONS OF MARS - ATMOSPHERE, SURFACE PROPERTY, AND POLAR CAPS
T-R-424 N64-29375 21-05

OBSERVATORY DATA ON MARS ATMOSPHERE AND SURFACE
T-R-426 N64-29597 21-05

MARTENSITIC STEEL
REVERSE MARTENSITIC TRANSFORMATION AND THERMODYNAMIC EQUILIBRIUM N64-11149 02-18

MARTENSITIC STEEL WELDING N64-17093 09-17

HIGH STRENGTH STEEL - MARTENSITIC STEEL HEAT TREATMENT N64-17209 09-18

RESIDUAL STRESSES IN SYMMETRICAL BODIES, FORMATION OF AUSTENITIC & MARTENSITIC STEEL, AND TEMPERING OF QUENCHED STEEL
FTD-TT-62-1762/1&2 N64-19180 11-17

KINETIC AND GEOMETRIC CHARACTERISTICS OF MARTENSITE CONVERSION IN IRON-NICKEL MANGANIC ALLOY
FTD-TT-62-1760/1&2 N64-22398 15-17

INTERNAL FRICTION OF MARTENSITIC STEEL
ATR-1 N64-26623 18-18

STRESS CORROSION CRACKING OF NICKEL MARAGING AND MARTENSITIC HIGH STRENGTH STEELS
LO414-02-8 N64-26873 18-33

WELDING PROCEDURES AND FILLER MATERIALS FOR JOINING MARTENSITIC AND BAINITIC STEEL
ML-TDR-64-255 N64-30933 22-17

MEASURING LOW PERCENTAGES OF RETAINED AUSTENITE AND MARTENSITE WITH USE OF FILTERED X-RAYS AND X-RAY DIFFRACTOMETER
SA-TR-2408 N64-31622 23-17

NOTCH SENSITIVITY AND HARDNESS OF MARTENSITIC STEEL
DTMB-1850 N64-33364 24-18

CORROSION OF METALS IN MERCURY VAPOR AT HIGH TEMPERATURES - STAINLESS STEELS, MARTENSITIC CHROMIUM STEELS, COBALT & NICKEL ALLOYS AND REFRACTORY METALS
NASA-TM-X-54787 N64-33681 24-18

MARVEL PROJECT
MARVEL PROJECT - PRELIMINARY FLIGHT TESTING OF TEST-BED AIRCRAFT, MARVELETTE
TRECOM-TR-63-66 N64-13849 05-04

STOL FIXED-WING AIRCRAFT DESIGN STUDY - MARVEL PROJECT
AEROPHYS. RES. REPT.-45 N64-13997 05-04

MASER
SA OPTICAL MASER
SA RUBY MASER
SA TRAVELING WAVE MASER
CF AMPLIFIER
CF SOLID STATE DEVICE
TRAVELING WAVE MASER FOR SATELLITE COMMUNICATION GROUND STATION RECEIVER - TELSTAR SATELLITE N64-11089 02-09

LASERS AND MASERS - DESCRIPTION, IMPROVEMENTS, AND APPLICATIONS N64-12559 04-25

MASER APPLICATIONS IN ELECTRONIC SYSTEMS - AMPLIFIERS N64-12566 04-25

FREQUENCY STABILITY OF HELIUM-NEON MASERS - LENGTH MEASUREMENT N64-13912 05-25

TRAVELING-WAVE MASER USING RUBY & SLOW-WAVE STRUCTURE AT X-BAND FREQUENCIES
TR-63 N64-14354 06-25

MASERS FOR LOW-NOISE RECEIVING SYSTEMS
NASA-CR-53044 N64-14895 06-25

RAMAN EFFECT AND PHONON MASERS
NASA-CR-53103 N64-16744 08-25

BIBLIOGRAPHY ON MASERS AND LASERS
TG-230-81 N64-16962 09-25

MULTIMODE OSCILLATIONS IN SOLID STATE MASERS
AFCRL-63-917 N64-18023 10-25

PHYSICS & ELECTRONICS RESEARCH - SEMICONDUCTORS, INFRARED RADIATION, COMPUTER DESIGN, MASERS, LASERS, RADIO ASTRONOMY, & RADIO METEOROLOGY
ONRL-9-64 N64-20308 13-01

LIQUID HELIUM REFRIGERATION SYSTEM FOR MASER COOLING SYSTEM
NASA-CR-56168 N64-20740 13-06

MILLIMETER AND SUBMILLIMETER MASER DEVICES - IRON /FERRIC ION/ DOPED ZINC TUNGSTATE AS NEW QUANTUM AMPLIFIER MATERIAL
AD-432597 N64-21375 14-25

NOISE PERFORMANCE OF TRAVELING WAVE MASERS
NASA-CR-56283 N64-22454 15-08

THERMOSTAT FOR MASER RESONATORS N64-23807 16-25

MASER WITH TWO TYPES OF NATURAL OSCILLATIONS OF RESONATOR N64-23808 16-25

MEASUREMENTS AND IMPROVEMENTS OF TWO HYDROGEN MASERS
NASA-CR-56549 N64-24103 16-25

FREQUENCY STABILITY & PRECISION OF HYDROGEN MASER
NASA-CR-56550 N64-24108 16-25

ATOMIC STRUCTURES, RADIOACTIVE ATOMS, MASERS, AND SOLID STATE PHYSICS
CU-3-64-SC-90789 N64-25319 17-23

INCREASING SENSITIVITY OF WEATHER RADAR SET WITH X-BAND HELIUM MASER
USAELRDL-TR-2427 N64-26173 18-21

GAMMA IRRADIATED LASER MATERIALS, TUNNELING STUDIES, MILLIMETER WAVE MASERS, GAS LASERS - SOLID STATE STUDIES N64-27998 20-23

RATE EQUATIONS DERIVED FOR SIX-LEVEL MASER USING CROSS RELAXATIONS BETWEEN SPIN LEVELS IN PHOSPHORUS-BORON DOPED SILICON
AFCRL-64-243 N64-28577 20-25

SOLID STATE MASERS AND PARAMAGNETIC RESONANCE IN EXTREMELY HIGH FREQUENCY RANGE
ITR-4 N64-28645 20-25

HYDROGEN MASER TO OPERATE BETWEEN TWO HYPERFINE LEVELS IN HYDROGEN-LIKE ATOMS
NASA-CR-58525 N64-28881 20-23

MOUNTING AND TUNING MECHANISM FOR INCORPORATING SOLID CAVITY INTO HYDROGEN MASERS
NASA-CR-58644 N64-29401 21-25

COMPONENTS AND STABILITY OF HYDROGEN MASERS
NASA-CR-58542 N64-29697 21-25

RANGE EXTENSION OF ELECTROMAGNETIC SPECTRUM BY CONTINUOUS OSCILLATION FREQUENCY OF OPTICALLY PUMPED MASER
CU-6-64-SC-90789 N64-30590 22-25

MASER DEVICES TO GENERATE MILLIMETER AND SUBMILLIMETER WAVES
ITR-2 N64-31191 22-25

ELECTRIC AND OPTICAL PROPERTIES OF CRYSTALS FOR SUBMILLIMETER MASER
NASA-CR-59288 N64-33332 24-25

MASK
DYNAMIC MEASUREMENTS OF PROTECTIVE MASKS AND BACK-PACKS
MPR-7 N64-17332 09-17

DESIGN AND FABRICATION OF MASK AND HELMET FOR CHIMPANZEE RESPIRATORY SYSTEM RESEARCH
ARL-TDR-64-3 N64-21311 14-16

DRYING CABINET DECONTAMINATION OF FACE MASKS
LAMS-3090 N64-24081 16-15

MASKING
LOW COST HIGH RESOLUTION PROGRAMMABLE MASKING FOR

FUNCTIONAL ELECTRONIC BLOCKS
NCR-20-11 N64-16967 09-20

LOUDNESS OF TONES PARTLY MASKED BY NOISE
TIL/T-5470 N64-17756 09-23

MASKING FOR FUNCTIONAL ELECTRONIC BLOCKS - PHOTOGRAPHIC APPARATUS
NCR-20-21 N64-22512 15-09

BINAURAL MASKING-LEVEL DIFFERENCES AT HIGH FREQUENCIES N64-26026 18-08

MASS
SA STELLAR MASS
ADJUSTMENT OF SEPARATED FLOW REGIONS WITH RESPECT TO PRESSURE, MASS, AND HEAT TRANSFER TO TRANSIENT EXTERNAL FLOW N64-10142 01-11

SMALL LATTICE REQUIRING LESS FUEL THAN EQUIVALENT CRITICAL OR EXPONENTIAL EXPERIMENTS FOR INFINITE-MEDIUM LATTICE PARAMETER MEASUREMENTS - REACTORS
BAW-1283 N64-11281 02-23

KINETIC ENERGY & MASS DISTRIBUTION FOR NUCLEAR FISSION AT MODERATE EXCITATION ENERGY
UCRL-11006 N64-11305 02-23

MEASUREMENT OF PROMPT-NEUTRON LIFETIME IN FAST CRITICAL SYSTEMS BY ROSSI-ALPHA METHOD
ANL-6681 N64-11390 02-23

NEUTRON PHYSICS PROGRAM - REACTOR PHYSICS, CRITICAL EXPERIMENTS, SHIELDING, COMPUTER PROGRAM, RADIATION DETECTOR, & WATER DESALTING
ORNL-3499, VOL. 1 N64-11472 03-23

AIRCRAFT ENGINE FLUTTER FAILURE DUE TO INSTABILITY OF CONTROL SURFACE MASS DISTRIBUTIONS N64-13559 05-33

HAZARDS OF PLUTONIUM OXIDE - HYDROGENOUS COMPACT CRITICAL MASS EXPERIMENTS
HW-66266, SUPPL. 1, REV. N64-14922 06-23

NEUTRON DISTRIBUTION IN CRITICAL SLAB BY MULTIPLE COLLISION METHOD
EUR 479.E N64-14945 06-23

CENTER OF MASS OF MOON PRECISELY DETERMINED FROM PHOTOGRAPHIC OBSERVATIONS
MH-TRANS-401 N64-15196 07-05

ENERGY AND MASS DISTRIBUTIONS OF FISSION FRAGMENTS PRODUCED BY HEAVY ION BOMBARDMENT
UCRL-11193 N64-16549 08-23

LOSS OF MASS EXPLAINED IN TERMS OF OXIDATION RATES OF CARBONACEOUS MATERIALS FROM PLASMA ARC TESTS
NASA-CR-55837 N64-16713 08-19

SPECTROPHOTOMETRIC OPTICAL CHARACTERISTICS OF ARCTIC AIR MASSES
FTD-MT-63-17/1&2 N64-18747 11-21

DETERMINING MASS OF AN OBJECT IN WHICH OBSERVED ABUNDANCES OF LIGHT ELEMENTS & ISOTOPES COULD HAVE EXISTED IN EQUILIBRIUM THERMONUCLEAR GAS N64-19339 12-05

MASS-RADIUS AND MASS-LUMINOSITY RELATIONS OF STARS IN MAIN SEQUENCE OF SPECTRUM-LUMINOSITY DIAGRAM N64-19458 12-05

CRITICAL MASSES OF SYSTEMS OF URANIUM OR PLUTONIUM
LAMS-3067 N64-20514 13-23

DETERMINATION OF MASS OF PLANET MERCURY N64-21135 14-05

RELATIONSHIP BETWEEN DISTANCES AND MASSES IN SOLAR PLANETS OF SOLAR SYSTEM N64-24764 17-05

CRITICAL DIMENSIONS OF SYSTEMS CONTAINING URANIUM 235 & 233 AND PLUTONIUM 239
TID-7028 N64-25117 17-23

MOTION EQUATION FOR LOCATION OF CENTER OF MASS OF EARTH SATELLITE
FTD-TT-63-1201/1&2&4 N64-25459 17-32

ELECTROMAGNETIC MASS DIFFERENCES IN UNITARY SYMMETRY MODEL
UR-875-26 N64-26684 18-23

OPTIMUM COPLANAR FLIGHT BETWEEN ORBITS ACCOUNTING FOR INNER RESERVE MASS PROPORTION TO FLIGHT TIME
NASA-TT-F-8928 N64-26929 18-29

HUMAN REACTION TO TORQUE REQUIRED FOR SUPPORT OF MASS ON ROD WITH EXTENDED ARM AND HAND
TR-20 N64-27098 19-14

DEFLECTIONS OF VERTICAL DUE TO LARGE TOPOGRAPHIC MASSES IN NEAREST VICINITY OF POINT
AFCRL-64-320 N64-27543 19-12

DETERMINATION OF MASS OF SATELLITE FROM MEASUREMENT OF THERMAL BEHAVIOR
TOR-269/4540-80/-1 N64-27624 19-13

QUADRATIC MASS FORMULA EVALUATION FOR ALL PARTICLES IN UNITARY SYMMETRY GROUP SU /3/
UR-875-44 N64-27974 20-23

MASS RENORMALIZATION IN QUANTUM FIELD THEORY
UR-875-49 N64-28272 20-23

MASS DIFFERENCE AMONG BOSON MULTIPLETS
NUP-64-12 N64-29239 21-23

HYPERVELOCITY IMPACT ON STRUCTURAL MATERIAL USING EXPLODING CONDUCTOR CIRCUIT - MEASUREMENT OF MASS, VELOCITY, AND CRATERING OF PARTICLES
ML-TDR-64-161 N64-29427 21-33

ZEOLITE TRAP IN SPUTTER-ION PUMP AS NOISE SUPPRESSOR IN MULTIPLIER OF MASS ANALYZER
NASA-CR-58538 N64-29700 21-15

SEMIEMPIRICAL EQUATION TO DESCRIBE MASS SYSTEMATICS OF ATOMIC NUCLIDES - NUCLIDIC MASS EQUATION
ANL-6886 N64-29773 21-23

MASS ACTION LAWS AND GIBBS FREE ENERGY FUNCTION
RM-3935-1-PR N64-31815 23-07

MASS BALANCE
MASS BALANCE IN SOLAR FLARE LOOPS N64-30261 22-28

MASS FILTER
ELECTRICALLY OPERATED MASS FILTER FOR DETERMINATION OF SPECIFIC CHARGE OF IONS
T-G-124 N64-12827 04-09

MASS FLOW
EFFECT OF FLANK LOSSES IN THEORY OF SPACE PROBE ENTRY UNDER HIGH MASS LOSS CONDITIONS
NASA-TN-D-2050 N64-11192 02-29

MASS FLOW THROUGH CIRCULAR ORIFICE AND TWO-DIMENSIONAL SLIT AT HIGH KNUDSEN NUMBERS
REPT. 683 N64-21079 14-02

DIGITAL COMPUTER METHOD FOR DESIGNING INVISCID WALL CONTOUR OF SUPERSONIC AXISYMMETRIC NOZZLE WITH UNIFORM PARALLEL FLOW AT EXIT
AEDC-TDR-64-110 N64-22570 15-02

MASS FLOW, BEAM CURRENT, VOLTAGE, AND THRUST MEASUREMENTS OF INDUCTION CHARGED COLLOID GENERATING SYSTEM FOR ELECTRIC PROPULSION
NASA-CR-54049 N64-25007 17-27

DECELERATION AND MASS LOSS OF BODY OF ABLATING MATERIAL DURING HIGH SPEED MOTION IN EARTH ATMOSPHERE
P-2900 N64-25983 18-13

MASS FLOW PROBE FOR SHORT DURATION HYPERSONIC FLOW N64-26139 18-13

DESIGN AND CONSTRUCTION OF ANALOG COMPUTER FOR MONITORING MASS FLOWRATE OF ARGON THROUGH PIPING SYSTEM
NAA-SR-9745 N64-29450 21-20

MAGNETOHYDRODYNAMIC ARC THRUSTER - JET VELOCITY AND MASS FLOW RATE
AEDC-TDR-64-182 N64-31068 22-24

AVERAGE MASS FLOW VELOCITY MEASUREMENTS IN THIN RECTANGULAR CHANNELS USING SINGLE FIXED TOTAL-PRESSURE PROBE WITH FIXED STATIC PRESSURE PROBE
NASA-TN-D-2212 N64-32405 23-11

COMPUTER CALCULATIONS OF REAL GAS EFFECTS IN MASS FLOW THROUGH CRITICAL-FLOW NOZZLES
NASA RP-356 N64-34012 24-11

MASS FLOW FACTOR
S NOZZLE GEOMETRY

MASS RATIO
MASS-DENSITY RATIO IN HYDROFOIL FLUTTER PREDICTION
ADR-06-12-62.1 N64-10263 01-04

MASS SPECTROMETER
MEASUREMENT OF ION CONCENTRATION AND TOTAL ION DENSITY IN EXOSPHERE USING MASS SPECTROMETER AND ELECTROSTATIC PROBE
NASA-RP-63 N64-10357 01-12

DETERMINATION OF ATMOSPHERIC PARAMETERS WITH ROCKETBORNE MASS SPECTROMETER
NASA-CR-9 N64-11233 02-12

IMPROVEMENT OF MASS SPECTROMETER USED TO ANALYZE SILICON EPITAXIAL REACTOR GAS STREAM COMPONENTS
AFCRL-63-350 N64-12237 03-15

OMEGATRON VERSUS SECTOR-TYPE MASS SPECTROMETER FOR RESIDUAL GAS STUDIES IN ULTRAHIGH VACUUM
AFCRL-63-386 N64-12284 03-15

ION EMISSION IN ANALYZER OF TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-63-722 N64-12611 04-15

CHARGE TRANSFER, ION DISSOCIATION, AND PHOTO-IONIZATION STUDIED WITH MODIFIED TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-63-708 N64-13083 04-15

MASS SPECTROMETER TO MEASURE PROCESSES OCCURRING WHEN ELECTRONS & IONS COLLIDE
E-T-R-63-7 N64-13259 04-23

DRIFT TUBE OF MASS SPECTROMETER USED AS REACTION CHAMBER FOR KINETIC STUDIES OF ION DISSOCIATION
AFCRL-63-926 N64-15495 07-07

IMPROVEMENT OF ION SOURCE AND VACUUM SYSTEM OF MASS SPECTROMETER
NASA-CR-55774 N64-16033 07-07

MASS SPECTROMETER OBSERVATION OF SLOW IONS PRODUCED BY CHARGE TRANSFER AND IONIZATION COLLISION
REPT. 18 N64-18307 10-23

VECTOR ANALYSIS OF PARTICLE STRUCTURES USING MASS SPECTROMETER
NUP-64-1 N64-19475 12-23

ROCKET-BORNE MASS SPECTROMETER MEASUREMENTS OF OXYGEN DISSOCIATION IN UPPER ATMOSPHERE
NASA-CR-53629 N64-19992 12-12

MASS SPECTROMETER MONITORING SYSTEM FOR DOPANTS IN GAS STREAM DURING EPITAXIAL DEPOSITION OF SILICON
AFCRL-64-178 N64-20163 13-06

LISSAJOUS MASS SPECTROMETER AND COLD ELECTRON SOURCES FOR MASS SPECTROMETRIC APPLICATIONS
NASA-CR-56103 N64-20690 13-23

DATA ANALYSIS OF SPECTROGRAM FROM MASS SPECTROMETER
RTD-TDR-63-4128 N64-21086 14-07

VACUUM VIBRATORS FOR MASS SPECTROMETER
ML-TDR-64-75 N64-21672 15-09

TIME-OF-FLIGHT MASS SPECTROMETER FOR PLASMA JET STUDY AT ATMOSPHERIC PRESSURE
ASD-TDR-62-844, PT.1 N64-21711 15-24

KINETICS OF CHARGE TRANSFER PROCESSES IN DRIFT TUBE OF TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-64-383 N64-22612 15-23

MASS SPECTROMETER FOR INVESTIGATING COMPOSITION OF NEUTRAL AND IONIZED GASES IN UPPER LAYERS OF ATMOSPHERE
NASA-TT-F-8821 N64-23126 16-12

ION DISSOCIATION IN DRIFT TUBE OF TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-64-90 N64-24197 16-15

VAPOR PRESSURE MEASUREMENT OF ZIRCONIUM TETRAFLUORIDE BY MASS SPECTROMETER
FTD-TT-64-219/1&264 N64-25467 17-19

USE OF HELIUM MASS SPECTROMETER LEAK DETECTOR
NASA-TM-X-978 N64-26091 18-15

MASS SPECTROMETER ANALYSIS OF PLASMA IN C-STELLARATOR DIVERTER
MATT-261 N64-26454 18-23

MASS SPECTROMETERS FOR USE IN ROCKET SOUNDING INSTRUMENTATION N64-26963 19-15

OMEGATRON-TYPE MASS SPECTROMETER N64-26964 19-15

PHYSICAL PROCESSES WITHIN MASS SPECTROMETER AND EFFECT ON MEASUREMENTS OF GAS MIXTURE COMPOSITION N64-26965 19-15

QUANTITATIVE ANALYSIS OF GAS MIXTURE COMPOSITION BY OMEGATRON MASS SPECTROMETER N64-26966 19-15

SWEEP OSCILLATOR TO GENERATE ALTERNATING ELECTRIC FIELD OF CONSTANT AMPLITUDE FOR OMEGATRON MASS SPECTROMETER N64-26967 19-15

USE OF ELECTRONIC SYSTEM OF PHOTOMULTIPLIER AS AMPLIFIER OF WEAK ION CURRENT IN MASS SPECTROMETER INSTRUMENTS N64-26968 19-15

SELECTION OF MASS SPECTROSCOPIC SYSTEM FOR ANALYSIS OF LUNAR SURFACE AND ATMOSPHERE
NASA-CR-56552 N64-27304 19-29

PHOTOIONIZATION STUDIES USING MASS SPECTROMETERS
AFCRL-64-106 N64-28774 20-07

HIGH PRECISION MASS SPECTROMETER N64-29066 21-23

CALIBRATION OF DIATRON MASS SPECTROMETER BY GASEOUS DIFFUSION THROUGH SINGLE POLYMER MEMBRANE
NASA-TM-X-51927 N64-29519 21-15

COLD ELECTRON MASS SPECTROMETRIC ION SOURCE
NASA-CR-56796 N64-29563 21-09

OBSERVATION OF 2,1 CHARGE TRANSFER IN TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-64-591 N64-31810 23-15

MEASUREMENT OF DIFFUSIVE SEPARATION OF ARGON AND NITROGEN BY RADIO FREQUENCY MASS SPECTROMETER
NASA-RP-321 N64-32639 23-12

THERMAL DECOMPOSITION OF HYDRAZINE USING SHOCK TUBE COUPLED TO MASS SPECTROMETER
AR-35-63 N64-33413 24-26

THERMAL DECOMPOSITION OF NITROGEN FLUORINE RADICAL IN SHOCK TUBE COUPLED TO TIME-OF-FLIGHT MASS SPECTROMETER
AR-15-64 N64-33494 24-07

MASS SPECTROMETRIC ANALYSIS OF GASEOUS IMPURITIES EVOLVED FROM CESIUM SUBJECTED TO HIGH TEMPERATURE REFLUX DISTILLATION
ML-TDR-64-200 N64-33913 24-07

MASS SPECTROMETRY
MASS SPECTROMETRIC DETERMINATION OF DISSOCIATION ENERGIES OF GASEOUS INDIUM-SULFUR COMPOUNDS

WADD-TR-60-782, PT. 12 N64-11171 02-18

MASS SPECTROMETRIC STUDIES OF BORON-CARBON-SILICON SYSTEMS, AND REDETERMINATION OF ATOMIZATION ENERGY OF THESE MOLECULES
WADD-TR-60-782, PT. 13 N64-11172 02-18

THERMOCHEMISTRY OF ALLOYS & COMPOUNDS BY MASS SPECTROMETRY - VAPORIZATION STUDIES
WADD-TR-60-782 N64-11372 02-18

MASS SPECTROMETRY DETERMINATION OF ISOTOPIC COMPOSITION OF ELEMENTS
ORNL-3528 N64-11822 03-27

CHARGE TRANSFER CROSS SECTION FOR NITROGEN ION AND ATOM AT 2650 ELECTRON VOLTS WITH TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-63-709 N64-11934 03-23

MASS SPECTROMETRIC AND MICROWAVE MEASUREMENTS OF ATMOSPHERIC ION REACTIONS
GA-4431 N64-12170 03-23

VAPOR PRESSURE OF INDIUM SULFIDES AS FUNCTIONS OF COMPOSITION AND TEMPERATURE - X-RAY DIFFRACTION & MASS SPECTROMETRIC DETERMINATION
UCRL-10857 N64-13213 04-19

TRACE ANALYSIS OF SOLIDS BY MASS SPECTROMETRY
AFCRL-63-530 N64-14113 05-23

DISSOCIATION & POLYMERIZATION ENERGIES OF GROUP IV - GROUP VI COMPOUNDS - MASS SPECTROMETRIC INVESTIGATION
WADD-TR-60-782, PT. 15 N64-14512 06-07

MASS SPECTROMETRIC STUDY OF VAPORIZATION PROCESS, AND MEASUREMENT OF HEAT OF DECOMPOSITION FOR COMPOUNDS OF ZINC, CADMIUM, & MERCURY
WADD-TR-60-782, PT. 18 N64-14513 06-07

MASS SPECTROMETRIC DETERMINATION OF DISSOCIATION ENERGY OF SCANDIUM, YTTRIUM, LANTHANUM, & YTTRIUM-LANTHANUM ALLOY
WADD-TR-60-782, PT. 19 N64-14514 06-07

PURIFICATION OF URANIUM-235 & 238 FOR MASS SPECTROMETRIC STUDY OF FISSION PRODUCTS
UCRL-11074 N64-14712 06-23

MASS SPECTROGRAPHY AND OTHER METHODS OF DETECTION AND QUANTITATIVE ANALYSIS OF MINUTE IMPURITIES IN BERYLLIUM
AD-410234 N64-14969 06-07

MASS SPECTROMETRY OF HIGH TEMPERATURE SYSTEMS AND ION SOURCES
SSD-TDR-63-349 N64-15687 07-07

DETECTION OF SINGLY IONIZED NITRIC OXIDE IN E-REGION OF IONOSPHERE BY GROUND BASED RADAR MASS SPECTROMETRY
AFCRL-63-795 N64-15807 07-21

KINETICS OF ADSORPTION OF COMPONENTS OF RESIDUAL GASES IN ULTRAHIGH VACUUM SYSTEMS - INVESTIGATION BY FLASH METHOD WITH MASS SPECTROMETRY
N64-17181 09-23

NEW DUAL-GAS EQUATION INVOLVING NUMBER DENSITIES FOR ATMOSPHERIC TEMPERATURE - MASS SPECTROMETRY
GCA-TR-63-9-A N64-17854 10-12

MASS SPECTROMETRIC STUDIES OF VAPORIZATION OF SULFIDES OF CALCIUM, BARIUM, AND STRONTIUM
WADD-TR-60-782, PT. 21 N64-17970 10-07

MASS SPECTROMETRY, INFRARED AND ULTRAVIOLET SPECTROSCOPY, MICROANALYSIS, AND POLYMER CHEMISTRY
ASD-TDR-63-620 N64-18259 10-07

MASS SPECTROMETRIC DETERMINATION OF HEAT OF SUBLIMATION OF LITHIUM FLUORIDES
N64-18814 11-13

MASS SPECTROMETRIC STUDY OF CHEMICAL EQUILIBRIUM INVOLVING METALS IN BURNT GAS REGION OF FLAMES
N64-18816 11-26

SOLID STATE MASS SPECTROMETRY - MOLECULAR CARBON STUDIES
RTD-TDR-63-4145 N64-20397 13-25

FLASH VAPORIZATION OF SOLID MATERIALS FOR MASS SPECTROMETRY BY THERMAL RADIATION
USNRDL-TR-736 N64-21080 14-23

MASS SPECTROMETRY OF IONIZATION PROCESSES IN NITROGEN - AURORAL AFTERGLOW PROCESS
AFCRL-64-259 N64-21416 14-12

MASS SPECTROMETRIC DETERMINATION OF DISSOCIATION ENERGY OF VARIOUS METALLIC OXIDES
WADD-TR-60-782, PT.XXII N64-21456 14-19

MASS SPECTROMETER STUDY OF ALKANE-SULFUR AROMATIC COMPOUNDS - ALKYLTHIOPHENES
BM-RI-6433 N64-21609 15-07

DETECTION AND IDENTIFICATION OF ORGANIC COMPOUNDS BY MASS SPECTROMETRY
NASA-CR-50678 N64-22762 16-07

RADIO FREQUENCY MASS SPECTROMETRY - UPPER ATMOSPHERE INVESTIGATIONS
AID-P-64-39 N64-23022 16-23

MASS SPECTROMETRIC MEASUREMENTS OF ATMOSPHERIC DISTRIBUTION OF HELIUM, NITROGEN, OXYGEN AND NITROGEN OXIDE IONS TO 430 KM ALTITUDE
NASA-TT-F-8819 N64-23125 16-12

INSTRUMENTATION PROBLEMS ASSOCIATED WITH ANALYSIS OF LUNAR CRUST AND ATMOSPHERE BY MASS SPECTROMETRY
NASA-CR-56545 N64-23528 16-29

MASS SPECTROGRAPHIC ANALYSIS OF ZONE REFINING OF DISTRIBUTION COEFFICIENT OF SILICON IN ALUMINUM
TR-7 N64-26811 18-18

AEROLOGICAL OBSERVATORY PROCEEDINGS - METHODS AND INSTRUMENTATION FOR ATMOSPHERIC COMPOSITION STUDIES WITH EMPHASIS ON MASS SPECTROMETRY
NASA-TT-F-141 N64-26961 19-15

VACUUM SYSTEM FOR MASS SPECTROMETRIC ANALYSES OF ATMOSPHERE AT PRESSURES ABOVE CRITICAL VALUE
N64-26969 19-15

MASS SPECTROMETRIC STUDY OF ION-MOLECULAR REACTION IN NEOPENTANE AT HIGH TEMPERATURES
HUM-5-P N64-27721 19-07

MASS SPECTROMETRY OF NEGATIVE IONS IN LOW-PRESSURE ATOMIC OXYGEN - ACETYLENE REACTION
AC-1-P N64-32503 23-26

MASS SPECTROMETRIC STUDIES OF IONIC REACTIONS IN GASEOUS ACETYLENE FOR SQUID PROJECT
HUM-8-P N64-32564 23-07

ELECTRON IMPACT PROCESSES IN ELECTRONEGATIVE PERFLUOROCARBONS - NEGATIVE ION MASS SPECTROMETRY
N64-32752 24-07

MASS SPECTRUM
SA MOLECULAR SPECTRUM
MASS SPECTRA AND ION-MOLECULE REACTIONS IN ETHANE, PROPANE, AND BUTANE UNDER HIGH PRESSURE - SQUID PROJECT
HUM-4-P N64-13257 04-07

PHOTOGRAPHIC RECORDING OF RAPIDLY CHANGING MASS SPECTRA
DASA-1453 N64-21097 14-15

MASS SPECTRA OF ORGANIC MOLECULES - AMINO ACIDS
NASA-CR-56533 N64-22794 16-07

EFFECTIVE MASS SPECTRA OF TWO-BODY PRODUCTS IN HIGH ENERGY NUCLEAR REACTION
LNF-64/7 N64-23897 16-23

MASS AND MICROWAVE SPECTRA, STRUCTURES AND DIPOLE MOMENTS OF ISOMERS OF SULFURMONOFLUORIDE
AD-434344 N64-26861 18-07

TABLES FOR REDUCTION OF HIGH RESOLUTION MASS

SPECTRAL DATA
NASA-CR-58597 N64-28888 20-07

MASS SPECTRAL STUDY OF KINETICS BEHIND SHOCK WAVES - THERMAL DISSOCIATION OF CHLORINE
DOW-AR-25-63 N64-30201 21-07

MASS TRANSFER
CF ENERGY TRANSFER
DETERMINATION OF RATE OF MASS TRANSFER BETWEEN FLUIDS IN SOLAR FURNACE CHAMBER ORIFICE
JPRS-18756 N64-11213 02-11

CARBON DIOXIDE ABSORPTION BY WATER IN VENTURI GAS-LIQUID CONTACTOR - MASS TRANSFER
N64-11653 03-11

MASS & ENERGY TRANSFER, FLOW CHARACTERISTICS, KINETICS OF VARIOUS SYSTEMS, AND STATE EQUATIONS FOR HELIUM AND OXYGEN
JPRS-22321 N64-11965 03-01

INFLUENCE OF VIBRATION OF SPHERE ON CONVECTIVE HEAT & MASS EXCHANGE IN TURBULENT FLOW
N64-11968 03-13

ENERGY- AND MASS-TRANSFER PROCESS EFFICIENCY INDICES
N64-11978 03-13

MASS AND ENERGY TRANSFER IN GRAY GASES
N64-11982 03-13

FRICTION, HEAT TRANSFER, AND MASS TRANSFER COEFFICIENTS FOR CONSTANT PROPERTY TURBULENT BOUNDARY LAYER ON FLAT PLATE
NOLTR-63-77 N64-12259 03-11

AUTOMATIC DIGITAL COMPUTATION OF GIBBS EQUATION AND MASS ACTION FUNCTIONS FOR CHEMICAL EQUILIBRIUM
RM-3935-PR N64-14011 05-07

HEAT & MASS TRANSFER IN TURBINE CONTACTOR
DP-847 N64-14396 06-17

CORRELATION OF FREQUENCY OF OCCURENCE OF SUPER-NOVAE WITH THEORIES OF MASS LOSS AND NEUTRINO EMISSION FROM RED GIANTS N64-15310 07-05

SKIN FRICTION AND STABILITY OF LAMINAR BOUNDARY LAYER ON FLAT PLATE WITH MASS TRANSFER
RM-3485-PR N64-16043 07-02

MASS AND HEAT TRANSFER RATES FOR LARGE TEMPERATURE AND CONCENTRATION GRADIENTS IN BOUNDARY LAYERS
AD-430278 N64-16436 08-11

APPROXIMATION METHOD FOR HEAT AND MASS TRANSFER IN BOUNDARY LAYERS
AD-430289 N64-16467 08-23

HYPERSONIC VISCOUS INTERACTION ON FLAT PLATE WITH MASS TRANSFER AT PLATE SURFACE
RM-3000-PR N64-16473 08-02

THEORETICAL ANALYSIS OF LIQUID PHASE MASS TRANSFER IN WET-WALL TOWER AND MASS TRANSFER RESISTANCE AT INTERFACE OF FLOWING GAS AND LIQUID
JPRS-23592 N64-16910 09-11

THEORETICAL ANALYSIS OF LIQUID PHASE MASS TRANSFER OF WET-WALL TOWER N64-16911 09-11

RESISTANCE OF MASS TRANSFER AT INTERFACE OF FLOWING GAS & LIQUID AND MECHANISM OF PRODUCTION
N64-16912 09-11

VELOCITY LIMITATIONS ON VEHICLES ENTERING ATMOSPHERE WITH HIGH MASS LOSS
NASA-TR-R-162 N64-16931 09-13

INJECTION OF FOREIGN GAS INTO LAMINAR AIR BOUNDARY LAYER - HEAT AND MASS TRANSFER PROBLEMS SOLVED BY SIMPLE CALCULATION METHOD OF SIMILARITY EQUATIONS
NASA-TN-X-54519 N64-17605 09-11

FREE FLIGHT INVESTIGATION OF MASS TRANSFER COOLING IN LAMINAR BOUNDARY LAYER AROUND BLUNT CONE AT HYPERSONIC SPEEDS
NASA-TN-D-2197 N64-17746 09-13

HEAT AND MASS TRANSFER EQUATIONS FOR GRAPHITE ABLATION AT ELEVATED TEMPERATURES
R63SD89 N64-17782 09-13

HEAT AND MASS TRANSFER IN INTERACTIONS OF BLUNT BODIES WITH FLUID FLOW IN PRESENCE OF CHEMICAL REACTIONS
FTD-TT-63-310/1&2&4 N64-19214 11-13

LIQUID METAL CORROSION AS DISSOLUTION PHENOMENON - MASS TRANSFER PROCESSES N64-20785 14-18

EMISSION SPECTROSCOPIC TECHNIQUES IN MASS TRANSFER & TURBULENT DIFFUSION STUDIES
IS-738 N64-21801 15-07

FUEL CELLS - MASS TRANSFER IN SOLID METAL ELECTRODES, AND GAS SOLUBILITY AND DIFFUSIVITY IN ELECTROLYTES
UFGG-8 N64-25861 18-06

HEAT AND MASS TRANSFER THROUGH TURBULENT BOUNDARY LAYER ON FLAT PLATE AT HIGH MACH NUMBERS WITH AND WITHOUT CHEMICAL REACTION N64-26334 18-11

RADIAL VARIATION OF EDDY DIFFUSIVITY TENSOR COMPONENTS FOR THREE-DIMENSIONAL MASS TRANSFER
IS-830 N64-26523 18-11

HEAT AND MASS TRANSFER FROM EXCHANGE SURFACE TO GAS-FLUIDIZED-BED OF SOLID PARTICLES
ANL-6807 N64-27518 19-13

LIQUID-PHASE MASS TRANSFER AT LOW FLOW RATES IN PACKED COLUMN - AXIAL AND RADIAL PECLET NUMBER CALCULATIONS
IS-817 N64-28516 20-11

HEAT AND MASS TRANSFER IN EVAPORATION OF LIQUID IN FORCED GAS STREAM
AID-T-64-29 N64-28639 20-13

UNSTEADY MASS TRANSFER WITH CHEMICAL REACTION - INITIAL AND BOUNDARY CONDITIONS
D1-82-0365 N64-30825 22-07

MASS TRANSPORT MECHANISMS OF OXYGEN IN THREE-PHASE ZONE OF CATHODE COVERED WITH THIN FILM OF ELECTROLYTE
AFCRL-64-539 N64-31824 23-07

ELECTRICAL BEHAVIOR OF CHARGE AND MASS TRANSPORT MECHANISMS IN REFRACTORY METAL OXIDES
ARL-64-122 N64-32627 23-25

ABLATION FROM LEXAN SPHERES AND CONES AT HYPERSONIC SPEED - RELATION BETWEEN MASS AND HEAT TRANSFER RATES FROM ANALYSES OF BOUNDARY LAYER
CARDE-TR-511/64 N64-33143 24-13

TURBULENT WAKES IN DENSITY STRATIFIED FLUIDS - MASS AND MOMENTUM TRANSFER IN TWO-DIMENSIONAL WAKES
R64-26 N64-33475 24-11

MATERIAL
S ANISOTROPIC MATERIAL
S BUILDING MATERIAL
S COMPOSITE MATERIAL
S FIBROUS MATERIAL
S FOAMED MATERIAL
S IMPREGNATED MATERIAL
S INTERSTELLAR MATERIAL
S LAMINATED MATERIAL
S MAGNETIC MATERIAL
S MOLDING MATERIAL
S ORGANIC MATERIAL
S PHOTOELASTIC MATERIAL
S PHOTOELECTRIC MATERIAL
S PHOTOTHERMOTROPIC MATERIAL
S POROUS MATERIAL
S PYROLYTIC MATERIAL
S RADIOACTIVE MATERIAL
S RADOME MATERIAL
S REACTOR MATERIAL
S REINFORCED MATERIAL
S STRUCTURAL MATERIAL
S THERMOELECTRIC MATERIAL
S TRANSPARENT MATERIAL

MATERIAL REMOVAL
SA MACHINING
INFLUENCE OF RADIATION HEAT EXCHANGE ON REMOVAL OF SUBSTANCE IN CRITICAL POINT OF BLUNT-NOSED BODY
FTD-MT-63-60/1&2 N64-18757 11-13

PAINT AND FILM REMOVAL FROM STEEL AND ALUMINUM SURFACES
CCL-159 N64-20321 13-17

MATERIAL TESTING
SA ENVIRONMENTAL TESTING
SA FAILURE
SA FATIGUE
SA NONDESTRUCTIVE TESTING
UNPUBLISHED PAPERS ON MATERIAL TESTING AND STRUCTURAL DESIGN
FPR-009, ISSUE 2 N64-12081 03-01

MATERIAL TESTING OF GLASS ROVING FOR FILAMENT WINDING
AD-419158 N64-12338 03-34

MATERIAL SELECTION AND FABRICATION TECHNIQUES FOR LIGHTWEIGHT HEAT EXCHANGERS OF ADVANCED POWER SYSTEMS
ASD-TR-7-936/5/ N64-12828 04-13

MATERIALS AND PROPERTIES INDEX CODE
A267 N64-12863 04-19

ABSTRACTS OF MATERIAL TEST PROGRAMS
A328 N64-13103 04-18

FAILURE TESTING OF THERMIONIC POWER CONVERTER
NASA-CR-55211 N64-13197 04-06

HIGH TEMPERATURE MATERIALS TESTING
GEMP-30A N64-13318 04-19

LOW CYCLE FATIGUE OF STRUCTURAL MATERIALS IN BIAXIAL STRESS FIELD
RTD-TDR-63-4094 N64-13817 05-18

REACTOR & NUCLEAR PHYSICS, INSTRUMENTATION, APPLIED MATHEMATICS, & MACHINE COMPUTATIONS - MATERIALS TESTING REACTOR
IDO-16917 N64-13900 05-18

NONDESTRUCTIVE ULTRASONIC TESTING AND INSPECTION OF FLAWS IN MATERIALS
ASD-TD-61-205, PT. 2 N64-14319 06-17

COMPUTER PROGRAM FOR ANALYZING BEHAVIOR OF MATERIALS UNDER EXPOSURE TO SOLID PROPELLANT ROCKET NOZZLE ENVIRONMENT
RTD-TDR-63-1076 N64-14686 06-19

DIGITAL COMPUTER STUDY OF SELF-COOLED ROCKET NOZZLE AND MATERIAL TESTS FOR SMALL AND LARGE ROCKET ENGINES
R-3853-2 N64-14824 06-27

ROCKET MOTOR CASE MATERIALS EVALUATION INCLUDING RESULTS FOR TITANIUM, STAINLESS STEEL, & TEXTURED TITANIUM N64-15849 07-33

REACTOR TECHNOLOGY AND RESEARCH - MATERIALS TESTING AND ENGINEERING TEST REACTORS
IDO-16932 N64-16126 08-23

MATERIAL TESTING FOR ABLATION SHIELD - BERYLLIUM PRODUCTION FOR ADHESIVE BONDING
A471 N64-16879 08-13

MATERIAL TESTING FOR LIGHTWEIGHT ABLATION SHIELD
A472 N64-16880 08-13

ANODE CATALYST MATERIAL FOR OPERATION OF DIRECT HYDROCARBON FUEL CELLS AT LOW TEMPERATURES N64-17407 09-06

APPARATUS FOR INVESTIGATION OF BIRESISTANCE STATE OF MATERIALS
NASA-TM-X-54576 N64-17604 09-15

EVALUATION OF HIGH STRENGTH MATERIALS FOR NOTCH SENSITIVITY AND FRACTURE
AD-432871 N64-17737 09-18

RIGID INFLATABLE SOLAR ENERGY CONCENTRATOR
NASA-CR-53298 N64-17768 09-06

MATERIAL TESTING - SIMULTANEOUS RECORDING OF STRESS, STRAIN, AND TIME DATA FOR 100 MICROSECOND LOADING DURATION WITH SPLIT HOPKINSON PRESSURE BAR
AD-433700 N64-18872 11-15

EFFECT OF NUCLEAR RADIATION ON SPACE VEHICLE MATERIALS - MATERIAL TESTING
NASA-TM-X-51615 N64-19578 12-18

COMPILATION OF LIQUID OXYGEN REACTION TESTS ON MATERIALS USED IN MISSILES AND SPACE VEHICLES
NASA-TM-X-54611 N64-19605 12-19

MECHANICAL FASTENING, ADHESIVE BONDING, AND BRAZING APPLIED TO PROBLEM OF ATTACHMENT IN BRITTLE NONMETALLIC MATERIALS
AD-428202 N64-19935 12-19

TENSILE AND FATIGUE PROPERTIES OF FORGINGS, ROLLED PLATE, & WELDMENTS OF HEAT-TREATED H-11 STEEL FOR F-111 AIRCRAFT STRUCTURES
FTDM-3177 N64-20060 13-18

SCREENING TESTS OF CORROSION PROTECTION COATINGS FOR USE IN F-111 AIRCRAFT INTEGRAL FUEL TANKS
FTDM-3211 N64-20065 13-17

ENVIRONMENTAL EXPOSURE OF ADHESIVES FOR F-111 AIRCRAFT
FTDM-3202 N64-20066 13-17

EMBRITTLEMENT, OXIDATION, AND HIGH POWER-DENSITY EFFECTS ON ENERGY-MATERIAL INTERACTIONS
CAL-NM-1559-P-6 N64-20093 13-18

STRENGTH TEST OF SANDWICH CONSTRUCTION LIGHTWEIGHT INSULATION PANELS FOR CENTAUR VEHICLE TO DETERMINE DESIGN ALLOWABLE STRESSES
SSR-1-63 N64-20343 13-13

LOW TEMPERATURE CYLINDRICAL THERMIONIC CONVERTER AND MULTIPLE COLLECTOR DEVICE FOR DIODE MATERIAL TESTING
AD-429133 N64-20408 13-24

FLAMMABILITY AND SMOKE CHARACTERISTICS OF AIRCRAFT INTERIOR MATERIALS
FAA-ADS-3 N64-20622 13-26

TESTING MATERIALS FOR CAVITATION DAMAGE RESISTANCE
TR-233-3 N64-21328 14-11

REACTOR FUEL ELEMENT PROCESSING AND MATERIALS TESTING - CERAMIC MATERIALS
HW-76304 N64-21739 15-17

MATERIAL TESTING FOR SOLID-STATE FERRDELECTRIC ACCELEROMETER
AD-432049 N64-21872 15-15

LOW TEMPERATURE INVESTIGATION OF MATERIALS FOR PROBABLE SPACE APPLICATION
FTD-TT-63-513/1 N64-21949 15-13

SEMICONDUCTOR MATERIALS - GALLIUM ARSENIDE AND GALLIUM ARSENIDE-GALLIUM PHOSPHIDE DIODE ARRAYS AND GROWTH OF BORON PHOSPHIDE CRYSTALS
AD-433725 N64-22056 15-25

X-RAY INVESTIGATION OF MATERIALS
N64-23831 16-33

X-RAY INVESTIGATION OF FATIGUE OF SINGLE CRYSTALS OF ALUMINUM AT NORMAL AND LOW TEMPERATURES
N64-23833 16-33

SEALING BETWEEN GIMBALS FOR REDUCED TORQUE AND LEAKAGE OF LOW PRESSURE GAS - TEFLON SEALS
NASA-CR-56645 N64-24125 16-17

PLASMA JET MATERIAL TESTING APPARATUS FOR PRELIMINARY EVALUATION OF COMPOSITE MATERIALS FOR ROCKET ENGINE COMPONENTS N64-25424 17-19

TECHNIQUES FOR EVALUATING HEAT PROTECTION MATERIALS FOR ATMOSPHERIC ENTRY VEHICLES

R64SD24 N64-26562 18-10

PROPERTIES OF MATERIALS - DATA OBTAINED DURING AEROSPACE VEHICLE RESEARCH
ASRCE-TM-63-15 N64-26814 18-17

TESTING MATERIALS FOR POTASSIUM LUBRICATED JOURNAL BEARINGS
NASA-CR-54113 N64-28085 20-18

MATERIAL BUCKLINGS OF CRITICAL AND SUBCRITICAL URANIUM CARBIDE FUELED GRAPHITE ASSEMBLIES
NAA-SR-9772 N64-28709 20-23

CANDIDATE MATERIALS ANALYZED FOR AVAILABILITY, BONDABILITY, & THERMAL EXPANSION, AND STRENGTH TO WEIGHT RATIO OF WHISKER COMPOSITES
WVT-RR-6411 N64-28825 20-17

BEHAVIOR OF MATERIALS SUBJECTED TO HYPERVELOCITY IMPACT
SID-64-656 N64-29646 21-33

MATERIALS SELECTION AND MECHANICAL DESIGN FOR EXPERIMENTAL LIQUID HYDROGEN PUMP FOR FLIGHT VEHICLE SYSTEMS
R-5343-3 N64-31278 22-17

TEST EQUIPMENT FOR RUST INHIBITORS
REPT.-64-2039 N64-32444 23-17

ROCKET NOZZLE AND HOT GAS DUCT MATERIAL TESTING
U-2577 N64-32511 23-17

NUCLEAR FUELS AND REACTOR MATERIALS DEVELOPMENT
TID-11295 3RD ED. N64-33090 24-18

COMPUTER PROGRAMMED LOAD CYCLING FOR PLASTIC DEFORMATION MATERIAL TESTING AND VERIFICATION OF ELASTICITY THEORY
ONERA-TP-161 N64-33258 24-25

VACUUM & NUCLEAR RADIATION EFFECTS ON RESISTANCE OF ENGINEERING MATERIALS FOR SPACE VEHICLES & REACTOR ACCESSORY HARDWARE
NASA-RP-349 N64-33987 24-17

MATERIALS SCIENCE
SA CERAMICS
SA METALLURGY
SA PLASTIC MATERIAL
SUMMARY OF MATERIAL BEHAVIOR AT CRYOGENIC TEMPERATURES N64-10306 01-19

NUCLEAR RADIATION EFFECT ON MATERIALS AT CRYOGENIC TEMPERATURES
NASA-CR-52498 N64-10370 01-18

NEW PROCESSES & FUNDAMENTAL PRINCIPLES FOR DESIGN CONFIGURATION REALIZATION IN MATERIALS - NEOS PROJECT
CAL-NM-1559-P-5 N64-11370 02-17

RADIOACTIVE ISOTOPES AND CONSTRUCTION INDUSTRY - MATERIALS SCIENCE
AEC-TR-5632 N64-11401 02-23

STRUCTURES AND MATERIAL FATIGUE, STRUCTURAL DYNAMICS, & HIGH STRENGTH MATERIALS - AERONAUTICS N64-11880 03-34

RESEARCH ON AEROSPACE MATERIALS PROCESSING
FPR-010 N64-12343 03-18

BIBLIOGRAPHY ON HIGH TEMPERATURE CHEMISTRY AND PHYSICS OF MATERIALS IN CONDENSED STATE N64-12675 04-13

MATERIALS SCIENCE - METHODS AND RESULTS FOR PREPARATION, DISSOLUTION, DETERMINATION AND ANALYSIS OF SPECIFIED SUBSTANCES
NBL-204 N64-12964 04-23

REACTOR RESEARCH - PHYSICAL & CHEMICAL METALLURGY OF REACTOR METALS & MATERIALS
HW-78962 N64-14226 06-01

STRUCTURES, MATERIALS SCIENCE, RELIABILITY, AND METEOROID HAZARDS N64-16004 07-34

MATERIAL SCIENCE RESEARCH ON LATTICE DYNAMICS, NUCLEAR MAGNETIC RELAXATION, AND THIN FILM MAGNETORESISTANCE
AD-432134 N64-16842 08-23

MECHANICAL PROPERTIES & SURFACE CONDITIONS OF CHEMICAL MILLED NIOBIUM-ZIRCONIUM ALLOYS
A473 N64-16881 08-18

EVALUATION OF MECHANICAL PROPERTIES OF METALS BY SPECIAL TECHNIQUES OR FOR SPECIAL APPLICATIONS N64-17213 09-18

ENGINEERING TECHNOLOGY OF PARTS AND MATERIALS
SSD-TDR-64-3 N64-17334 09-01

SYNTHESIS OF HIGH TEMPERATURE MATERIALS WITH PLASMA JET USING POWDERED SOLIDS
NRL-1490 N64-17445 09-24

PHYSICAL METALLURGY, REACTOR METALS, CHEMICAL METALLURGY, & MATERIALS ENGINEERING
HW-79766 N64-17503 09-18

FORMING AND ERROR MEASUREMENTS OF ANDROFORMING MACHINE - MATERIAL SCIENCE
RTD-TDR-63-7-910 N64-18058 10-17

INFLUENCE OF VISCOELASTIC MATERIAL PROPERTIES ON STRESS DESIGN PROBLEM - MATERIALS SCIENCE
AD-436014 N64-18883 11-33

MATERIALS SCIENCE - ELECTROFORMING OF HIGH QUALITY SPIN CASTING FOR SOLAR COLLECTOR
NASA-CR-53813 N64-19308 12-23

MATERIALS RESEARCH IN LAUNCH VEHICLE PROGRAMS - BIBLIOGRAPHY
NASA-TM-X-53006 N64-20593 13-01

MATERIALS SCIENCE - THERMAL AND MECHANICAL PROPERTIES, MORPHOLOGY, & INFRARED SPECTROSCOPY
NASA-CR-56129 N64-20709 13-19

ATTENUATED TOTAL REFLECTANCE TECHNIQUE FOR OBTAINING INFRARED SPECTRA OF MATERIALS WITHOUT MODIFYING SAMPLE N64-21819 15-07

MATERIAL MOMENTUM-ENERGY TENSORS AND CALCULUS OF VARIATIONS
RM-3993-PR N64-21916 15-20

ELASTOMERIC GASKET MATERIALS FOR CRYOGENIC APPLICATIONS
NASA-CR-56648 N64-24015 16-19

MEASURING MAGNETIC PROPERTIES OF NONMAGNETIC MATERIALS IN LOW MAGNETIC FIELDS N64-28212 20-25

HISTORY, FACILITIES, & RESEARCH PROJECTS OF ORGANIZATION FOR STUDY OF AERODYNAMICS, MATERIALS SCIENCE, FLIGHT MECHANICS, STRUCTURES, COMBUSTION, PROPULSION, AND MATHEMATICS N64-30477 22-10

CONFERENCE ON AEROSPACE TECHNOLOGY - MATERIALS, FABRICATION PROCESSES, ELECTRIC POWER GENERATION, INSTRUMENTATION, LUBRICATION, SUPERCONDUCTIVITY, AND PLASMA PHYSICS
NASA-SP-5019 N64-32767 24-01

MATERIALS SCIENCE - BRITTLENESS, FATIGUE, AND FRACTURE MECHANICS - GLASS-REINFORCED PLASTIC, HIGH STRENGTH METALS AND ALLOYS, AND REFRACTORY MATERIALS N64-32769 24-17

BASIC MATERIALS RESEARCH - THEORETICAL AND EXPERIMENTAL STUDY OF METALS, CERAMICS, SEMICONDUCTORS, INORGANIC COMPOUNDS, POLYMERS, AND GLASSES
AD-420653 N64-32985 24-25

PROPERTIES OF MATERIALS USED IN PYROTECHNIC COMPOSITIONS
AMCP-706-187 N64-33132 24-07

MATERIALS AND TECHNIQUES OF CLOSED DIE FORGING SYSTEM
IITRI-B220-32 N64-33549 24-17

SURFACE CHEMISTRY AND CORROSION WITH GASEOUS, LIQUID, AND SOLID PHASES - RADIOACTIVE DATING
N64-33892 24-07

MATHEMATICAL MODEL
SA FLOWGRAPH
SA POISSON PROCESS
AUTOMATIC CONTROL SYSTEM FOR KIWI B-1B REACTOR - MATHEMATICAL MODELS DERIVED AND BUILT FROM ANALOG COMPUTER COMPONENTS
LAMS-2966 N64-11476 03-20

MATHEMATICAL MODEL FOR PHYSIOLOGICAL PHENOMENA - CYBERNETICS N64-12513 04-14

MATHEMATICAL MODEL FOR NERVOUS DEFENSES AGAINST STIMULATION AND INHIBITION N64-12515 04-16

DIGITAL COMPUTER SIMULATION OF PERFORMANCE OF SOLID PROPELLANT ROCKET MOTORS
FA-R-1694 N64-12836 04-20

MATHEMATICAL MODEL FOR UNDERSTANDING DYNAMIC STABILITY OF HELICOPTERS IN HOVERING
MP-220 N64-12918 04-04

BOUNDARY CORRESPONDENCE OF QUASI-CONFORMAL MAPPING IN SPACE
MRC-426 N64-12982 04-23

MATHEMATICAL MODEL FOR SIMULATION OF EVOLUTION OF ATMOSPHERE & CIRCULATION PHENOMENA
N64-13206 04-21

MATHEMATICAL MODEL OF CRATER FORMATION BY HYPERVELOCITY IMPACT N64-13525 05-23

GEOMETRIC REPRESENTATION OF SPACE - COSMOLOGY
N64-13923 05-23

MATHEMATICAL MODEL OF EARTHQUAKE SOURCES TO DELIVER SAME SEISMIC WAVE PATTERNS
AFCRL-64-211 N64-14660 06-12

MATHEMATICAL MODEL FOR DELAY-TIME DISTRIBUTION IN SERVING CUSTOMERS FROM SINGLE FACILITY WITH RANDOM VARIABLES
ORC-63-12 N64-14762 06-20

MATHEMATICAL MODEL OF HUMAN BODY FOR ASSESSMENT OF LOADS ON BODY DURING ACCELERATION
TECH. REPT.-115-2 N64-14779 06-16

MATHEMATICAL MODEL OF SEPARATION PROCESSES IN MASS FILTERS FOR MASS SPECTROSCOPY
DVL-298 N64-15029 07-15

ANALYSIS OF PHYSICAL NONLINEAR TRANSDUCERS BY MATHEMATICAL MODELS CHARACTERIZED BY DIFFERENTIAL EQUATIONS N64-16240 08-15

COMPUTATIONAL APPROACHES TO SOME MATHEMATICAL MODELS OF TURBULENCE
RM-3819-ARPA N64-16652 08-20

MATHEMATICAL MODEL FOR INPUT-OUTPUT DEVICES AND THEIR CONNECTIONS
AFCRL-64-4 N64-16818 08-20

SNAP 8 REACTOR CORE TRANSIENT HEAT TRANSFER MODEL
NAA-SR-7938 N64-16861 08-06

SATELLITE CONTROL - MATHEMATICAL MODEL OF GRAVITY AND INTERNAL TORQUES ON EARTH-POINTING SATELLITE
AMTED-TN-52 N64-16976 09-20

MATHEMATICAL MODEL OF MATERIAL TRANSPORT IN CHEMICAL EQUIPMENT N64-17347 09-07

MONOFILAMENT FIBER FRICTION MECHANISMS
RTD-TDR-63-4127, PT. 1 N64-17665 09-33

MATHEMATICAL MODEL OF CONTINUOUS CONTROL SYSTEMS
JPRS-23864 N64-17712 09-20

COMPUTATIONAL APPROACH TO MATHEMATICAL MODEL OF TURBULENCE
RM-3918-ARPA N64-18014 10-20

STAR DUST PROJECT METHOD OF PREPARING MATHEMATICAL MODEL OF ATMOSPHERIC MIXING AND CALCULATION FOR DEPOSITION PATTERNS OF RADIOACTIVE DEBRIS
DASA-1307 N64-18272 10-21

MATHEMATICAL MODEL DESCRIBING LIFE CYCLE AND RELIABILITY OF ELECTRONIC SYSTEMS
N64-18345 10-20

TECHNIQUES FOR IMPROVING METHODS OF EXERCISING AND EVALUATING COMMAND AND CONTROL SYSTEMS - MATHEMATICAL MODELS
ESD-TDR-64-195 N64-18374 10-06

TRANSIENT RESPONSE OF TALOS AIRFRAME WHEN SUBJECTED TO UNDERWATER EXPLOSION - MATHEMATICAL MODEL N64-18546 11-30

MATHEMATICAL MODEL OF TWO-LAYER NETWORK OF THRESHOLD ELEMENTS
RADC-TDR-63-534 N64-18784 11-20

MATHEMATICAL MODELS OF NEURAL ACTIVITY
N64-18835 11-16

MATHEMATICAL MODEL OF CONTROL SYSTEM TO OPTIMIZE AUTOMOBILE BRAKING N64-19045 11-23

MATHEMATICAL MODELS FOR AXIAL OSCILLATIONS CAUSED BY ENGINE STRUCTURE COUPLING IN MISSILES
LMSC/A389580 N64-19076 11-30

MATHEMATICAL MODELING AND DIGITAL SIMULATION FOR SYSTEMS ANALYSIS IN OPERATIONS RESEARCH
RADC-TDC-63-407 N64-19115 11-20

MATHEMATICAL MODEL OF QUASI-ANALOG SYSTEM WITH FEEDBACK CONTROL
FTD-TT-62-1557/1&2&4 N64-19192 11-20

PROCESSING METHOD FOR REMOVING EFFECTS OF ATMOSPHERIC TURBULENCE FROM SIGNALS IN SYNTHETIC APERTURE RADAR SYSTEMS - MATHEMATICAL MODEL
R-179 N64-19404 12-08

DATA REDUCTION OF STRESS AND BENDING MOMENTS ON SHIP AT SEA - MATHEMATICAL MODEL
PB-181557 N64-19408 12-33

MATHEMATICAL MODEL TO SHOW RELATIONSHIP BETWEEN DESIGN AND SPECIFICATIONS IN SELECTING SET OF PARAMETERS FOR RELAYS N64-19530 12-09

COMPARISON OF GAS CHROMATOGRAPH TESTS & COMPUTER SOLUTIONS OF MATHEMATICAL MODEL FOR STATIC VAPOR PRESSURE CONTROL SYSTEM
NASA-CR-53816 N64-19612 12-06

MATHEMATICAL MODEL OF CONTINUOUS CONTROL SYSTEM - MODEL OF EXCITABLE MEDIUM N64-19784 12-20

MATHEMATICAL MODEL TO STUDY DYNAMIC STABILITY OF HELICOPTERS IN HOVERING
AGARD-470 N64-19891 12-04

SELF-ADAPTIVE CONTROL SYSTEM - MATHEMATICAL MODEL
FTD-TT-63-1109/1&2&4 N64-20370 13-06

MATHEMATICAL MODELS FOR PERFORMANCE PREDICTION OF SYSTEM EFFECTIVENESS
NSS-2360 N64-21460 14-20

STATISTICAL MODELING OF PHYSICAL SYSTEMS AND VARIOUS MATHEMATICAL STATEMENTS OR FORMULATIONS OF MODELS
EDL-M635 N64-22548 15-20

COMPUTER AUTOMATED MATHEMATICAL MODELS FOR QUICK TIME SOLUTIONS TO ELECTROMAGNETIC COMPATIBILITY PROBLEMS N64-22835 16-09

DYNAMIC MATHEMATICAL MODEL FOR EVALUATING AIRBORNE EXTERIOR LAMPS N64-23159 16-06

ATLAS F WEAPON SYSTEM RELIABILITY - MATHEMATICAL MODEL AND ASSOCIATED STUDIES
BSD-TDR-64-8, VOL. 3 N64-23220 16-30

ATLAS F WEAPON SYSTEM RELIABILITY

BSD-TDR-64-8, VOL. 1 N64-23281 16-31

CONTINUOUS MODEL MATCHING TECHNIQUES APPLIED TO PARAMETER DETERMINATION OF TIME VARYING HUMAN PILOT MODELS
NASA-CR-56374 N64-23993 16-14

PARAMETERS OF MATHEMATICAL MODELS OF HUMAN PILOTS
NASA-CR-56362 N64-24040 16-14

MATHEMATICAL MODEL FOR SYSTEMS SERVICING AND BREAKDOWNS
N64-24696 17-09

TEMPERATURE DISTRIBUTION AND THERMAL STRESSES IN SHIP STRUCTURES
SSC-152 N64-24935 17-13

MATHEMATICAL MODEL FOR ACOUSTICAL RAY TRACING
ERDA-137 N64-24943 17-23

MATHEMATICAL MODEL OF CYLINDRICAL PLASMA ARC AND USE OF STEENBECKS MINIMUM PRINCIPLE
RAE-TRANS-1041 N64-25537 17-13

MATHEMATICAL MODEL OF CONTROL SYSTEM CONTAINING DERIVATIVES OF CONTROL VARIABLES
NASA-CR-56831 N64-25569 17-30

MATHEMATICAL MODEL OF ATMOSPHERIC PROCESSES FOR WEATHER FORECASTING
JPRS-25398 N64-25719 17-21

PERFORMANCE CHARACTERISTICS OF ACCELEROMETER IN TESTS AND RELATION TO THOSE OF MATHEMATICAL MODEL
SSD-TDR-64-37 N64-26105 18-15

MATHEMATICAL MODEL OF SINE WAVE PLUS NOISE FOR PARAMETRIC ANALYSIS OF TAPE RECORDER PERTURBATIONS
NASA-CR-58127 N64-26374 18-09

SIMULATING MINERAL DEPOSITS USING MONTE CARLO TECHNIQUES AND MATHEMATICAL MODELS
BM-RI-6493 N64-26464 18-12

MATHEMATICAL MODELS OF SHIP HULLS - STRUCTURAL DESIGN
N64-26479 18-20

MATHEMATICAL MODEL OF SOLAR REFLECTOR FOR DETERMINING INTENSITY DISTRIBUTION ON PLANE PERPENDICULAR TO OPTICAL AXIS FROM REFLECTOR SURFACE
REPT.-3193 N64-26795 18-06

MATHEMATICAL MODEL OF COMBUSTION PROCESS TO DETERMINE RELATIONSHIP BETWEEN CHAMBER WALL TEMPERATURE AND COMBUSTION DISTURBANCES
FTD-TT-64-616/1&2 N64-26818 18-26

MATHEMATICAL MODEL OF NEUTRAL POINT OF IDEAL MAGNETOSPHERE - INTERACTION OF GEOMAGNETIC FIELD WITH SOLAR WIND
NASA-RP-274 N64-27353 19-12

MATHEMATICAL MODEL FOR MECHANICALLY AGITATED LIQUID EXTRACTION DEVICE - PULSE COLUMN
IS-849 N64-27527 19-07

MATHEMATICAL MODEL OF RECONNAISSANCE SYSTEM, SIMULATED AERIAL PHOTOGRAPHY STUDY, AND THEORY AND CONSTRUCTION OF IMAGE ANALYZER UNIT
ITEK 9048-7 N64-27694 19-15

MATHEMATICAL MODEL FOR CALCULATING PERFORMANCE OF RECONNAISSANCE SYSTEMS DEVELOPED FROM IMAGE EVALUATION STUDY
ITEK-9048-9 N64-27786 19-15

STATISTICALLY DEFINED LOADS FOR VERTICAL GUST AND MATHEMATICAL MODEL FOR LATERAL GUST
NPR-5 N64-28131 20-33

MATHEMATICAL MODEL FOR ANTIJAMMING SCHEMES OF COMMUNICATION SYSTEMS - ERROR ANALYSIS FOR TWO METHODS OF COHERENT DETECTION
SSD-TDR-64-74 N64-28162 20-08

MATHEMATICAL MODEL FOR COMPUTER SIMULATION OF REENTRY VEHICLE TRAJECTORIES TO DETERMINE REQUIREMENTS OF GROUND ELECTRONIC SUPPORT SYSTEMS
ESD-TDR-64-135 N64-28580 20-30

THERMAL SCALE MODELING FOR SPACE VEHICLES - THERMALLY SIMILAR MODEL DERIVED FROM MATHEMATICAL MODEL OF PROTOTYPE
NASA-RP-300 N64-28706 20-13

TEMPERATURE DISTRIBUTION IN HOLLOW CYLINDRICAL MANOMETER COLUMN WITH HEAT SOURCE AT LOWER END - MATHEMATICAL MODEL
IS-805 N64-28781 20-13

MATHEMATICAL MODEL OF TURBULENT FLOW NEAR BOUNDARY LAYER - VARIATIONS IN VALUES OF KARMAN CONSTANT
N64-29532 21-11

MATHEMATICAL MODEL FOR VISUAL INTEGRATIVE PROCESS - PATTERN RECOGNITION
DI-82-0351 N64-29610 21-23

MATHEMATICAL MODEL OF RADIO EMISSION FROM NUCLEAR EXPLOSION
RM-4134 N64-29858 21-23

MATHEMATICAL HEAT TRANSFER MODEL FOR DETERMINING SENSITIVITY OF HOT WIRE INITIATOR TO INPUT CURRENT
NWL-1919 N64-29877 21-13

MATHEMATICAL MODEL OF PERFORMANCE OF HUMAN OPERATOR IN VISUAL-MANUAL TRACKING SITUATION
TR-EE64-15 N64-30018 21-14

MATHEMATICAL MODEL AND DIGITAL COMPUTER STUDY OF ABNORMAL PHYSIOLOGICAL PHENOMENA IN BALLISTOCARDIOGRAM
REPT.-11 N64-30493 22-16

SOLAR REFLECTOR ANALYSIS - OPERATIVE COMPUTER PROGRAMS
EDR-3693 N64-30557 22-06

MATHEMATICAL MODELS SYSTEM DEVELOPMENT FOR USE WITH LARGE-SCALE AUTOMATIC COMPUTERS
USNRDL-TR-749 N64-30958 22-20

MATHEMATICAL MODEL OF ACTIVE HEAT EXCHANGE ZONE OF SHAFT FURNACE FOR SMELTING OXIDIZED NICKEL ORES
N64-31425 23-17

GAMMA IRRADIATION EFFECTS ON RUBY LASER CHARACTERISTICS - MATHEMATICAL MODEL
NSF-7 N64-32322 23-25

PRESTRESSED MONOLITHIC AND SEGMENTED BRITTLE STRUCTURES - MATHEMATICAL MODELS FOR LOAD DEFLECTION CHARACTERISTICS
NASA-CR-113 N64-32431 23-33

MATHEMATICAL MODEL OF TURBULENCE-INDUCED PANEL VIBRATION
AFOSR-64-0883 N64-32975 24-33

HIGH CURRENT SWITCHING DEVICES - DEVELOPMENT OF MATHEMATICAL MODELS REPRESENTING ENERGY CONVERSION SYSTEMS IN POWER RELAY
NASA-CR-59002 N64-33207 24-09

BEHAVIOR OF DISTRIBUTED COMMUNICATIONS NETWORKS UNDER LOADING CONDITIONS - MATHEMATICAL MODEL AND DETERMINISTIC EQUATION
RM-3578-PR N64-33228 24-08

MANUAL CONTROL SYSTEMS STUDIES - MATHEMATICAL MODELS DEVELOPMENT, ADAPTIVE CHARACTERISTICS, AND MULTIAXIS VARIABLES
NASA-CR-59258 N64-33341 24-14

MATHEMATICAL MODEL AND COMPUTATION TECHNIQUES FOR PREDICTION OF SYSTEM EFFECTIVENESS OF ROCKET BOOSTED PAYLOADS
STL-9990-6586-RU-000 N64-33412 24-20

MATHEMATICAL STATISTICS
PROGRAMMING RESEARCH & COMPUTING SERVICES AND STATISTICAL RESEARCH, APPLICATION, & PROGRAMMING
ORNL-3567 N64-16666 08-20

GENERALIZATIONS OF BALLOT THEOREM IN MATHEMATICAL STATISTICS AND QUEUE THEORY
CU-41-64-NONR-266/59/MS N64-20545 13-20

CUMULATIVE PROBABILITY DISTRIBUTION FUNCTION OF QUOTIENT OF CHI-SQUARE VARIATE RATIO DIVIDED BY DEGREE-OF-FREEDOM RATIO - DOUBLY NONCENTRAL F-DISTRIBUTION
ESD-TDR-63-556 N64-32081 23-20

MATHEMATICAL TABLE
SOLUTION OF ALGEBRAIC POLYNOMIALS BY ROOT FINDING MATHEMATICAL TABLES
AFCRL-63-559/1/ N64-16816 08-20

ALGEBRAIC EQUATION SOLUTIONS - POWER TABLE AND POLYNOMIAL TABLES
AFCRL-63-559/2/ N64-16817 08-20

TABLES FOR SUPERSONIC FLOW AROUND RIGHT CIRCULAR CONES AT ZERO ANGLE OF ATTACK
NASA-SP-3004 N64-18949 11-02

MATHEMATICAL TABLE OF TRIGONOMETRIC FUNCTIONS DESIGNED FOR DESK CALCULATOR TRANSFORMATION OF ARTIFICIAL EARTH SATELLITE COORDINATES
N64-21836 15-20

DECIMAL TO OCTAL CONVERSION TABLE
NASA-TM-X-55030 N64-25069 17-20

TABLES OF NORMALIZED SPHERICAL FUNCTIONS, THEIR DERIVATIVES, LOGARITHMS, AND FORMULAS FOR EXPANSION
NASA-TT-F-8888 N64-28758 20-20

TABLES FOR REDUCTION OF HIGH RESOLUTION MASS SPECTRAL DATA
NASA-CR-58597 N64-28888 20-07

ABSCISSAS AND COEFFICIENTS FOR GENERALIZED GAUSS-LAGUERRE QUADRATURE FORMULA USING ZERO ORDINATE
NASA-TM-X-53099 N64-29179 21-20

BESSEL FUNCTION TABLES APPLIED TO PROBLEMS OF ANNULAR THIN PLATES AND WAVE PROPAGATION
AD-602755 N64-30824 22-20

MATHEMATICAL TABLES OF INCOMPLETE GAMMA-FUNCTION RATIO AND PERCENTAGE POINTS OF CHI-SQUARE DISTRIBUTION
ARL-64-123 N64-33952 24-20

MATHEMATICS /GEN/
SA ALGEBRA
SA CALCULUS
SA GEOMETRY
SA TRIGONOMETRY
MATHEMATICAL LOGIC FOR SENTENTIAL CALCULUS AND ARISTOTILIAN SYLLOGISTIC SYSTEMS
OTS-61-11302 N64-10424 01-20

RESULTS ACHIEVED BY RECIPIENTS OF LENIN PRIZE FOR SOVIET MATHEMATICIANS
JPRS-17718 N64-10487 01-20

MONTE CARLO METHODS FOR MATHEMATICAL AIR AND SPACE TRAVEL PROBLEMS
WGLR-6/1963 N64-11863 03-16

PERTURBATION SOLUTIONS AND ENERGY EQUATION IN LAMINAR BOUNDARY LAYER THEORY - MATHEMATICS
PIBAL-792 N64-13120 04-11

EQUATIONS FOR APPROXIMATE DETERMINATION OF NUMBER OF BROKEN LINES IN PIECEWISE-LINEAR APPROXIMATION
N64-13571 05-20

EQUATIONS OF EQUAL PLANET SYSTEM VIEWED FROM SURFACE WAVE N64-13575 05-16

MIXED-SEQUENTIAL ESTIMATING PROCEDURE WITH APPLICATION TO AUDIT TESTS IN ACCOUNTING
ONR-RM-81 N64-13859 05-20

CYBERNETIC RELATION TO SCIENCE AND TECHNOLOGY, NEUROLOGY, PATHOLOGY, MATHEMATICS, AND PHILOSOPHY
JPRS-23234 N64-14944 06-16

MATHEMATICAL ANALYSIS OF RADIATION INJURY INCIDENCE IN CELL CULTURE N64-15208 07-16

MATHEMATICAL SOLUTION FOR REFLECTION AND TRANSMISSION OF PLANE COMPRESSIONAL WAVES
AFCRL-64-205 N64-15684 07-23

MULTIPLIERS OF P-INTEGRABLE FUNCTIONS IN COMPACT ABELIAN GROUP
AD-429515 N64-15750 07-20

PHYSICAL AND MATHEMATIC APPROXIMATIONS APPLIED TO LINEAR EQUATION SYSTEMS, EQUATIONS WITH PARTIAL DERIVATIVES, AND SOLAR ECLIPSE OBSERVATIONS
N64-16212 08-20

MATHEMATICAL SOLUTIONS FOR TRANSPORT PROBLEMS
JPRS-22919 N64-16226 08-20

NUMERICAL ANALYSIS OF NONLINEAR ELASTIC BODIES
ERR-AN-157 N64-16858 08-33

MATHEMATICAL /COMPUTER/ SIMULATION - THEORY AND METHODS
RSIC-125 N64-17969 10-20

COMPILATION OF ARTICLES ON MATHEMATICAL SIMULATION AND ELECTRIC CIRCUITS
JPRS-24041 N64-18093 10-20

MATHEMATICAL ANALYSIS OF LATTICE BOUNDARY VALUE PROBLEMS APPLIED TO MOLECULAR PARTICLE COLLISIONS WITH SURFACES
NASA-CR-53577 N64-18455 10-23

OSCILLATION OF ELASTIC SOLID PANEL BORDERING SUPERSONIC FLOW OF GAS
FTD-MT-63-143 N64-18685 11-11

MATHEMATICAL ANALYSIS OF SURFACE WAVE ANTENNAS
SCI. REPT.-798312 N64-20147 13-30

IRREDUCIBLE REPRESENTATION FOR SPACE GROUP - SYMMETRY PROPERTIES N64-20414 13-25

BALLOT THEOREM APPLICATIONS IN ORDER STATISTICS
CU-39-64-NONR-266/33/MS N64-20543 13-20

MATHEMATICAL ANALYSIS OF SHIP STEERABILITY
N64-20782 14-11

CODE FOR SOLUTION OF SYSTEMS OF BOOLEAN EQUATIONS
EUR-211.F N64-20870 14-20

MATRIX REPRESENTATION OF GENERAL CUBIC TO GIVE COEFFICIENTS OF TRANSFORMATION N64-20958 14-20

QUASI-CONCAVITY, DUALITY, AND GRADIENT INEQUALITY FOR NON-DIFFERENTIABLE FUNCTIONS
ONR-RM-92 N64-21060 14-20

TABLE OF NUMERICAL CALCULATIONS OF SINE SQUARED THETA VS THETA AND TWO-THETA - TRIGONOMETRIC FUNCTION
IS-842 N64-21204 14-20

MATHEMATICAL ANALYSIS OF FINITE AND INFINITE, DIVERGENCE AND CONTINUITY THEORIES
JPRS-24224 N64-21210 14-20

REDUCTION OF TWO-DIMENSIONAL SYSTEMS OF DIFFERENTIAL EQUATIONS - MATHEMATICS
AD-431976 N64-21219 14-20

APPLICATION OF CALCULUS FOR FACTORIAL ARRANGEMENTS TO UNEQUAL NUMBERS IN VARIANCE ANALYSIS
MRC-411 N64-21329 14-20

OPTIMAL PROGRAMS FOR SEQUENTIAL INVESTMENTS - MATHEMATICS OF FINANCE
AD-433699 N64-21487 14-20

PHYSICS, ELECTRONICS, & MEASUREMENT STANDARDS, CHEMISTRY & PROPERTIES OF MATERIALS, APPLIED MATHEMATICS, RADIO PROPAGATION, AND OTHER RESEARCH

NBS-MISC.-PUBL.-255 N64-21512 15-23

QUASI-LINEARIZATION, DYNAMIC PROGRAMMING, AND INVARIANT IMBEDDING FOR TRANSFORMING TWO-POINT BOUNDARY VALUE PROBLEMS INTO SUITABLE FORM FOR SOLUTION BY DIGITAL COMPUTER
P-2878 N64-21526 15-20

NUMERICAL COMPUTATION OF STORM SURGE OF HURRICANE CARLA 1961 IN GULF OF MEXICO
TR-10 N64-21744 15-21

TOEPLITZ OPERATORS ON LOCALLY COMPACT ABELIAN GROUPS
AD-434244 N64-21788 15-20

MIXED BOUNDARY VALUE PROBLEM FOR LINEAR THIRD ORDER HYPERBOLIC PARTIAL DIFFERENTIAL EQUATIONS
NOLTR-64-70 N64-21810 15-20

FACTOR ANALYSIS OF DATA MATRICES - TRANSFORMATION PROBLEMS & METHODS
AD-434811 N64-22004 15-20

GENERALIZATION OF LAPLACE EXPANSION TO ARBITRARY POWERS AND FUNCTIONS OF DISTANCE BETWEEN TWO POINTS N64-22064 15-20

MATHEMATICAL EXPLANATION OF ELEMENTARY PARTICLE AS ELEMENTARY PARTICLE
UR-875-33 N64-22112 15-23

MATHEMATICS - ALGORITHMS FOR SOLUTIONS TO HOMEOMORPHIC PROBLEMS
FTD-TT-64-125/164 N64-22156 15-20

OPTIMUM CLASSIFICATION RULES FOR CLASSIFYING OBSERVATIONS INTO MULTIVARIATE NORMAL POPULATIONS
CU-71-64 N64-22376 15-20

NUMERICAL ANALYSIS OF APERTURE-SYNTHESIS METHOD OF MEASURING MULTIPATH FIELD COMPONENTS
NBS-8275 N64-22377 15-08

RIEMANN MANIFOLD USED TO OBTAIN INVARIANT MEAN CURVATURE VECTOR
ARDD-1517-62 N64-22540 15-20

PROBLEM OF ESTIMATING LOCATION AND SCALE PARAMETERS FROM TRUNCATED SAMPLES - MATHEMATICAL STATISTICS
MRC-459 N64-22600 15-20

CANONICAL REPRESENTATIONS FOR NORMAL & UNIFORM CHAIN EVENTS
MRC-462 N64-22601 15-20

BLOCK RELAXATION BY COMPUTER
MRC-477 N64-22604 15-20

BEHAVIOR OF NONLINEAR SIGNAL MIXING N64-22011 16-09

BESSEL FUNCTION CALCULATION USING LAGUERRE POLYNOMIAL EXPANSION
AMRA-TR-64-06 N64-22960 16-20

MATHEMATICAL EQUATIONS FOR TWO-DIMENSIONAL STATIONARY COMPRESSIBLE FLOWS PAST CYLINDER - MAGNETOGASDYNAMICS
SR-8 N64-22971 16-24

COMPUTER SUBROUTINE FOR INTRODUCING FIXED AND VARIABLE DELAY FUNCTIONS IN ANALOG PROBLEMS
EUR-347.F N64-23047 16-20

MATHEMATICS - CASCADED COUNTERS WITH FEEDBACK
MRC-467 N64-23105 16-20

MATHEMATICAL ANALYSIS OF EXPONENTIAL, WEIBULL, AND GAMMA POPULATION ORDER STATISTICS
ARL-64-31 N64-23107 16-20

DIRECT SOLUTION OF POISSON EQUATION USING FOURIER ANALYSIS
TR-C56 N64-23217 16-20

MATHEMATICAL PROGRAMMING - BIBLIOGRAPHY
ORC-64-6/RN/ N64-23274 16-20

RATIOS OF NORMAL VARIABLES AND RATIOS OF SUMS OF UNIFORM VARIABLES
D1-82-0348 N64-23324 16-20

COMPUTER PROGRAMMING IN MATHEMATICS
FTD-TT-63-449/1&2&4 N64-23396 16-20

MATHEMATICAL ANALYSIS OF IMPULSE VOLTAGE REGULATION USING DISTORTION RESISTANCE N64-23979 16-09

MATHEMATICAL ANALYSIS OF THERMODYNAMIC EQUATIONS FOR IONIZED GAS TEMPERATURE EFFECT ON ATOMIC ELECTRONIC STRUCTURE N64-23600 16-11

NUMERICAL SOLUTION OF LINEAR EQUATION OF HEAT CONDUCTION WITH SEVERAL SPATIAL VARIABLES N64-23689 16-13

APPROXIMATION METHOD FOR SOLUTION OF INTEGRAL EQUATIONS FOR DIRICHLET PROBLEMS N64-23690 16-23

MATHEMATICAL METHODS APPLIED TO SPACE MEDICINE N64-23771 16-16

THEORY OF RANDOM FUNCTIONS APPLIED TO SPACE BIOLOGY AND MEDICINE N64-23772 16-16

MATHEMATICAL ANALYSIS OF CULTIVATION OF CHLORELLA IN BIOLOGICAL CULTIVATORS WITH IRREGULAR SHAPES N64-23778 16-16

NUMERICAL SOLUTIONS TO FLUID DYNAMIC PROBLEMS
NASA-CR-56370 N64-23941 16-11

NUMERICAL ANALYSIS OF RESIDUE NUMBER SYSTEMS
NASA-CR-56297 N64-23991 16-20

POPULATION SELECTION AND RANKING AND ORDER STATISTICS FOR BINOMIAL DISTRIBUTIONS
TR-68 N64-24180 16-20

MATHEMATICAL PREDICTION OF TEMPERATURE RISE WITHIN SEMI-INFINITE WOOD SLAB SUBJECTED TO HIGH TEMPERATURE CONDITIONS
WSS/CI PAPER-64-5 N64-24374 17-20

MATHEMATICS OF FLUID FLOW, ELECTROMAGNETIC WAVE PROPAGATION, CELESTIAL MECHANICS, CONTROL THEORY, AND SYSTEM RELIABILITY ANALYSIS - BIBLIOGRAPHY N64-24380 17-20

NUMERICAL ANALYSIS IN WEATHER FORECASTING N64-24407 17-21

MATHEMATICAL APPROACH TO SPACE AGE PROBLEMS
NASA-RP-212 N64-24535 17-20

INVARIANT IMBEDDING AND TIME DEPENDENT TRANSPORT PROCESSES STUDIED USING LAPLACE TRANSFORM
R-423-ARPA N64-24939 17-20

MATHEMATICS FOR RADAR RESOLUTION STUDIES AND ANALYSIS OF CON-SCAN TRACKING SYSTEM
REPT.-00.460 N64-24984 17-08

TOPOLOGICAL MATHEMATICS - COMPACTIFICATION THEORY ON HAUSDORFF SPACE LATTICES & HARMONIC FUNCTIONS
TR-26 N64-25089 17-20

SPACE MATHEMATICS
NASA-CR-56203 N64-25102 17-29

NONPARAMETRIC MAXIMUM LIKELIHOOD ESTIMATION OF DENSITY FUNCTION OF SAMPLE OF INDEPENDENT IDENTICALLY DISTRIBUTED RANDOM VARIABLES
D1-82-0308 N64-25274 17-20

SOLUTION OF SECOND ORDER DIFFERENTIAL EQUATION OF HYPERBOLIC TYPE BY REDUCTION TO SYSTEM OF INTEGRAL EQUATIONS
NASA-TT-F-8738 N64-25280 17-20

SUCCESSIVE APPROXIMATION METHOD FOR SOLUTION TO DIFFERENTIAL EQUATION SYSTEM
NASA-TT-F-8739 N64-25281 17-20

MATHEMATICAL ANALYSES OF PROBLEMS OF OPTIMAL

CONTROL AND LINEAR ELLIPTICAL SYSTEMS
FTD-TT-63-1075/1 N64-25439 17-06

MATHEMATICS OF MOTION STABILITY IN CLASSICAL AND CELESTIAL MECHANICS
FTD-MT-64-175 N64-25442 17-23

RELATIVE CONVERGENCE OF DOUBLY-INFINITE SET OF EQUATIONS
TR-69 N64-25477 17-20

CLASS OF TESTING PROCEDURES IN LINEAR MODELS AND THEIR ASYMPTOTIC RELATIVE EFFICIENCIES
IMM-NYU-321 N64-25510 17-20

NAKAGAMI-RICE PROBABILITY DISTRIBUTION
N64-25528 17-20

APPROXIMATE SEQUENTIAL ESTIMATION - EVALUATION OF PROBLEM SOLVING PROCEDURES IN AUTOMATIC THEORY FORMATION
TN-1 N64-25667 17-20

TWO-CENTER EXPANSION FOR POWERS OF DISTANCE BETWEEN TWO POINTS - MATHEMATICAL PHYSICS
N64-25668 17-20

FORMULATION OF PROBLEMS CONCERNING LIFTING PROPERTY
AROD-3333-9 N64-25696 17-23

MATHEMATICAL PROBLEMS IN CREATING DIGITAL GRID ANALYZER
FTD-TT-62-1023/1&2 N64-25756 17-20

BOUNDARY CONDITION WHEN QUASILINEAR PARTIAL DIFFERENTIAL EQUATION IS UNIQUE - MATHEMATICS
TN-BN-354 N64-25777 17-20

MATHEMATICAL ANALYSIS OF NONSTEADY FLOW - SQUID PROJECT
CAL-88-P N64-25799 17-11

MIKUSKINSKI THEORY OF OPERATOR CONSTRUCTION
FTD-TT-64-325/1 N64-26118 18-20

MATHEMATICAL SIMULATION OF OPERATION OF SECTION MILL USING MONTE CARLO METHOD AND DIGITAL COMPUTER
N64-26378 18-17

NUMERICAL METHOD OF SOLVING OPTIMAL CONTROL PROBLEMS
JPRS-25636 N64-26460 18-20

VARIATIONAL CALCULUS PROBLEMS WITH ARGUMENT LAG
RM-179 N64-26634 18-20

MATHEMATICAL ANALYSIS, ENGINEERING DESIGN, & ERROR EVALUATION OF PLOTTER AND RECTIFICATION SYSTEM FOR OBLIQUE AND PANORAMIC PHOTOGRAPHY - PHOTOGRAMMETRY
RADC-TDR-63-367 N64-26672 18-15

TWO VARIABLE EXPANSION PROCEDURE FOR APPROXIMATE SOLUTION OF NONLINEAR DIFFERENTIAL EQUATIONS
SM-42620 N64-26676 18-05

LOGIC SYSTEMS FOR SEMI-AUTOMATIC MATHEMATICAL PROCESSES
AFCRL-64-411 N64-26957 18-20

MATHEMATICAL DESCRIPTION OF GEOMETRIC CONFIGURATION OF LIQUID PROPELLANT ROCKET BOOSTER FOR TRAJECTORY AND PERFORMANCE PREDICTION
NASA-TM-X-53026 N64-27244 19-34

WORLD MAGNETIC SURVEY /WMS/ - METHOD FOR MINIMIZING LIMITATIONS OF MATHEMATICAL AND GRAPHICAL DESCRIPTIONS OF EARTHS MAGNETIC FIELD
NASA-RP-277 N64-27355 19-12

PHYSICS, CHEMISTRY, MATHEMATICS, ENGINEERING, METALLURGY, AND CERAMICS
AD-601472 N64-27497 19-01

MATHEMATICAL PROPERTIES OF POWER SPECTRAL DENSITY FUNCTION - COMPONENTS AND MOMENTS
TR-21 N64-27532 19-20

BAUER FIELDS OF VALUES OF MATRIX
MRC-475 N64-27715 19-20

NUMERICAL METHOD FOR PRESSURE DISTRIBUTION ON FLAT WING OF ARBITRARY PLANFORM
AIAA PAPER-64-590 N64-27752 19-03

GAUGE INVARIANCE
NASA-CR-56788 N64-27903 20-23

BIBLIOGRAPHY OF BIOLOGICAL, CHEMICAL, GEOLOGICAL MATHEMATICAL, PHYSICS, AND ENGINEERING ABSTRACTS
N64-28140 20-10

MATHEMATICAL ANALYSIS OF SIX CIRCULAR-COIL SYSTEM FOR PRODUCTION OF UNIFORM MAGNETIC FIELD
N64-28215 20-23

MATHEMATICAL METHODS AND ELECTRONIC COMPUTERS FOR SOLVING HYDROLOGICAL PROBLEMS N64-28404 20-12

OPERATIONS AND LANGUAGE FOR DIGITAL COMPUTER PROGRAMMING USING SYSTEMATIC SYNTHESIS TECHNIQUES
RADC-TDR-64-135 N64-28466 20-20

MATHEMATICAL ANALYSIS OF ELASTIC PLATE VIBRATIONS
N64-28481 20-33

MATHEMATICAL ANALYSIS OF TOROIDAL SHELL AND ANNULAR PLATE COUPLING N64-28483 20-33

MATHEMATICS OF ORBIT CALCULATION
NASA-TM-X-55055 N64-28741 20-29

IDENTITY OF LANDAU AND VAN KAMPEN SOLUTIONS OF LINEARIZED VLASOV EQUATION
NASA-CR-58667 N64-29003 20-24

STOCHASTIC INTEGRALS AND QUASI-MARTINGALES
TR-1 N64-29231 21-20

APPLICATION OF CHAIN SEQUENCES TO UNIVALENCE
MRC-378 N64-29300 21-20

INEQUALITY CONSTRAINT PROBLEMS IN CALCULUS OF VARIATIONS
TR-436 N64-29351 21-20

MEAN NUMBER OF CURVE CROSSINGS BY NONSTATIONARY NORMAL PROCESSES
TR-1 N64-29392 21-20

MATHEMATICAL TECHNIQUES FOR INVENTORY CONTROL
AROD-968-35 N64-29907 21-10

QUOTIENT-DIFFERENCE /QD/ ALGORITHM FOR FINDING ROOTS OF POLYNOMIAL EQUATION WITH ALL ROOTS POSITIVE
CS9 N64-30057 21-20

MATHEMATICAL LOGIC AND NUMERICAL ANALYSIS
FTD-TT-64-500/1 N64-30176 21-20

MINIMIZATION OF PYRAMIDAL SYSTEMS OF MAJORITAL ELEMENTS BY HEURISTIC PROCEDURES
N64-30210 22-20

CONTROL BY MODULUS OF ARITHMETIC OPERATIONS
N64-30217 22-20

INITIAL CONDITIONS IN THEORY OF DISTRIBUTION
LFEN.14 /ALPHA/ N64-30249 22-20

ALGORITHMIC APPROACH TO ANALYSIS OF LEARNING PROCESSES AND PROBLEM SOLVING N64-30324 22-14

MATHEMATICAL EQUATIONS FOR OPTIMAL CONTROLLERS
ASD-TDR-63-239 N64-30925 22-09

SOLAR REFLECTOR ANALYSIS, MATHEMATICS, AND ERROR MODEL SYNTHESIS FROM RAY TRACE DATA
EDR-3958 N64-31167 22-06

QUIET SYNCHROS - MATHEMATICAL COMPUTATIONS AND EXPERIMENTAL INVESTIGATIONS IN ACOUSTICAL NOISE REDUCTION N64-31478 23-17

MATHEMATICS, MECHANICS, AND ASTRONOMY
FTD-MT-64-63 N64-31742 23-23

DIFFERENTIAL PROPERTIES OF BOUNDED GENERALIZED SOLUTIONS OF QUASI-LINEAR SYSTEMS
N64-31744 23-20

PROPERTIES OF FUNCTIONS DEFINED BY TRIGONOMETRIC SERIES WITH MONOTONIC DECREASING COEFFICIENTS
N64-31745 23-20

EXTREMAL REGIONS CONNECTED WITH ONE SHEETED FUNCTIONS
N64-31747 23-20

CALCULATION OF LAMINAR BOUNDARY LAYER BY METHOD OF DISMEMBERMENT
N64-31752 23-11

ONE-PARAMETER FAMILY OF STRATIFIABLE ORTHOGONAL PAIRS
FTD-MT-63-334 N64-31881 23-20

RANDOM WALKS WITH REFLECTING BARRIER - SOLUTION TO WIENER-HOPF EQUATION
RM-3597-1-PR N64-31917 23-20

GENERALIZATION OF PERRON-FROBENIUS THEOREM ON POSITIVE ELEMENT MATRICES TO PROVE INERTIA THEOREM
MRC-484 N64-31957 23-20

CUMULATIVE PROBABILITY DISTRIBUTION FUNCTION OF QUOTIENT OF CHI-SQUARE VARIATE RATIO DIVIDED BY DEGREE-OF-FREEDOM RATIO - DOUBLY NONCENTRAL F-DISTRIBUTION
ESD-TDR-63-556 N64-32081 23-20

COMPUTER PROGRAM BASED ON MAN-MACHINE INTERACTION IN FORMAL MATHEMATICS - MECHANICAL THEOREM PROVING
AFCRL-64-563 N64-32111 23-20

ITERATIVE SOLUTIONS OF HELMHOLTZ EQUATION
AFCRL-64-684 N64-32112 23-20

MODULAR DIGITAL COMPUTER FOR ARITHMETIC OPERATIONS
AL-TDR-64-86 N64-32145 23-20

DIURNAL VARIATIONS IN HORIZONTAL AND VERTICAL DISTRIBUTION OF ATMOSPHERIC DENSITY FOR ALTITUDES UP TO 90 KM
NR-384-903 N64-32180 23-23

FATIGUE LIFE TESTING OF MULTIPLE LOAD PATH REDUNDANT STRUCTURES
ML-TDR-64-160 N64-32209 23-33

PRESTRESSED MONOLITHIC AND SEGMENTED BRITTLE STRUCTURES - MATHEMATICAL MODELS FOR LOAD DEFLECTION CHARACTERISTICS
NASA-CR-113 N64-32431 23-33

MATHEMATICAL ANALYSIS OF COMPUTER TIME SHARING SYSTEMS
AROD-9608-37 N64-32535 23-20

COMPUTER MATHEMATICS AND ENGINEERING
JPRS-26718 N64-32745 24-20

RESEARCH IN PHYSICS, CHEMISTRY, MATHEMATICS, METALLURGY, RADIO, AND SOUND
AD-602948 N64-32786 24-10

QUASI-SEPARABLE SOLUTIONS TO PARTIAL DIFFERENTIAL EQUATIONS - ELLIPTIC CASE EQUATIONS
AROD-407-66 N64-32866 24-20

UNIVERSITY OF AUSTRALIA RESEARCH PROGRAMS IN PHYSICS, CHEMISTRY, CIVIL AND ELECTRICAL ENGINEERING, AND MATHEMATICS
N64-32986 24-16

COMPUTER PROGRAM DOCUMENTATION - MATHEMATICAL AND SUBROUTINE DESCRIPTION OF ESPOD PROGRAM
STL-8497-6065-RU000 N64-33146 24-20

EVALUATION OF TWO-CENTER COULOMB INTEGRALS
NASA-CR-59382 N64-33904 24-23

MATHIEU FUNCTION
CF DIFFERENTIAL EQUATION
CF RAYLEIGH EQUATION
APPROXIMATIONS FOR RADIAL MATHIEU FUNCTIONS OF FIRST AND SECOND KIND AND FOR THEIR DERIVATIVES
EDL-M630 N64-16979 09-20

LOW FREQUENCY APPROXIMATIONS FOR SCATTERING BY DIELECTRIC ELLIPTIC CYLINDERS USED IN MATHIEU FUNCTION SERIES SOLUTION
EDL-M725 N64-32562 23-23

MATRIX
SA GRID
SA LATTICE
SA SCATTERING MATRIX
MATRIX ELEMENTS IN OCTET OPERATOR OF SULFUR URANIDE ION
URPA-13 N64-10194 01-19

CONDITIONALITY OF MATRICES IN LINEAR EQUATIONS
E-T-R-63-8 N64-12822 04-20

MONOTONICITY PROPERTIES OF POWER FUNCTIONS OF EQUALITY TESTS - TWO COVARIANT MATRICES
CU-68-63 N64-12987 04-20

SCIENTIFIC COMPUTATION OF LINEAR EQUATIONS, MATRIX OPERATIONS, & CURVE FITTING BY ELECTRONIC COMPUTER PROGRAMMING
NBS-TN-203 N64-13939 05-20

FORTRAN PROGRAMS FOR ELECTRON DENSITY AND SYMMETRY PROJECTION - MATRIX CALCULATION
E-359-P N64-14362 06-23

CORRECTING FOR MATRIX EFFECTS IN FLUORESCENT X-RAY ANALYSIS
RSIC-130 N64-16084 07-23

DIGITAL COMPUTER PROGRAM FOR AUTOMATIC ENUMERATION OF COSETS
NASA-CR-55654 N64-16112 07-20

COMPOSITE, HARD-GRAIN, DUCTILE MATRIX BODIES OF HIGH COMPRESSIVE STRENGTH PRODUCED BY ISOSTATIC PRESSING AND FIRING - OXIDES AND CARBIDES
Y-1450 N64-16314 08-19

ELECTROLYTE MATRIX FOR LIQUID POTASSIUM-MERCURY FUEL CELL
NASA-CR-53108 N64-16747 08-06

LINEAR AND MATRIX OPERATORS IN COORDINATE SPACES
RSIC-140 N64-17639 09-20

EIGENVALUE MATRIX TREATMENT OF NUCLEAR INTERACTION BETWEEN FISSILE MATERIALS
HW-80213 N64-17704 09-23

NONUNIFORMLY-WEIGHTED ORTHONORMAL OVERDAMPED EXPONENTIAL APPROXIMATIONS
SM-45777 N64-17757 09-29

FIRST ORDER DENSITY MATRIX FOR SPIN-PROJECTED SINGLE DETERMINANT - ELECTRON ORBIT
TECH. NOTE-104 N64-17847 10-20

TESTS FOR INVERTABILITY AND POSITIVE DEFINITENESS OF MATRICES
RM-157 N64-18140 10-20

TESTING ELECTROLYTE MATRIX COMBINATION OF MERCURY-POTASSIUM FUEL CELL
NASA-CR-53527 N64-18219 10-06

MATRIX TRANSFORMED FROM COORDINATE SYSTEM
N64-18228 10-29

MATRIX INVERSION PROCEDURES IN MINIVAR
N64-18233 10-20

ELECTROLYTIC MATRIX COMBINATIONS FOR MERCURY-POTASSIUM FUEL CELL
NASA-CR-53350 N64-18285 10-06

INFRARED ABSORPTION SPECTRUM ANALYSIS OF INORGANIC MOLECULES USING MATRIX ISOLATION TECHNIQUE
N64-18803 11-07

INFRARED SPECTRUM ANALYSIS OF MOLECULES VAPORIZED FROM OXIDES OF ZIRCONIUM, HAFNIUM, AND THORIUM BY MATRIX ISOLATION
N64-18804 11-07

MATRICES FOR MODELS OF DISKS, PLATES, AND SHELLS
AD-434846 N64-18913 11-20

MECHANICAL AND PHYSICAL PROPERTIES OF DISPERSIONS OF BERYLLIUM PARTICLES IN DUCTILE ALUMINUM MATRIX
AD-440083 N64-20563 13-18

COMPUTATION OF WAVE FUNCTION MATRIX ELEMENTS IN QUANTUM MECHANICS
RM-3826-PR/AEC N64-21160 14-23

DISTANCE MATRIX AND SYNTHESIS OF N-PORT RESISTIVE NETWORKS
AROD-3298-9 N64-21238 14-09

MODERN FUSELAGE ANALYSIS - MATRIX FORCE METHOD
N64-21390 14-02

DIPOLE MATRIX ELEMENTS FOR TRANSITION IN CESIUM
RTD-TDR-63-3111 N64-21517 15-23

FUNDAMENTAL PROBLEM IN GENETICS EXPRESSED AND SOLVED IN TERMS OF INCIDENCE MATRICES
RM-3994-PR N64-21853 15-20

FACTOR ANALYSIS OF DATA MATRICES - TRANSFORMATION PROBLEMS & METHODS
AD-434811 N64-22004 15-20

TRIDIAGONALIZATION OF MATRIX USING SIMILARITY TRANSFORMATIONS - EIGENVALUE PROBLEM
AROD-3772-4 N64-22531 15-20

NONLINEAR PROCESS IDENTIFICATION USING STATISTICAL PATTERN MATRICES
IEEE-CP-PAPER-3 N64-23199 16-20

STRUCTURE OF FERMION DENSITY MATRICES - WAVE FUNCTIONS OF BARDEEN-COOPER-SCHIEFFER TYPE & SUPERCONDUCTIVITY
TN-103 N64-24757 17-23

TENSOR METHODS AND UNIFIED REPRESENATION THEORY OF SYSTEMATIC UNITARY SYMMETRY
UR-875-38 N64-25826 17-23

MATRIX REPRESENTATION OF MULTIPLE LOADED CIRCULAR LOOP ANTENNAS
TR-429 N64-26535 18-08

MATRIX THEORY FOR FORCE, DEFLECTION, AND STRESS CALCULATION FOR LINEAR-ELASTIC SKELETAL STRUCTURES
WAPD-TM-417 N64-26611 18-34

MATRIX FORMULATION AND COMPUTER PROGRAM FOR LARGE CLASS OF NONLINEAR SHELL PROBLEMS
SSD-31116R N64-26847 18-20

COVARIANCE MATRIX FOR SYSTEM PERFORMANCE EVALUATION
SSD-TDR-64-143 N64-27472 19-20

PERTURBATION OF SPECTRAL ABSORPTION LINES IN VACUUM ULTRAVIOLET BY SOLID MATRICES
AD-601539 N64-27775 19-07

UNIMODULAR MATRICES AND COMBINATORIAL PROBLEMS IN LINEAR PROGRAMMING
EUR-1632.F N64-28126 20-20

THERMAL AND PHYSICAL PROPERTIES OF CERAMIC MATRICES
IER-5 N64-28569 20-17

ASYMPTOTIC ESTIMATES OF ERROR PROBABILITY FOR DATA TRANSMISSION THROUGH COMMUNICATION CHANNEL WITH SYMMETRIC MATRIX OF TRANSACTION PROBABILITIES
FTD-TT-63-543/1&2&4 N64-29025 21-08

MATRICES OF CANONICAL FORM OF THREE-DIMENSIONAL SYSTEM OF THREE FLAT MIRRORS WITH ONE SLEWED
N64-29148 21-15

STOCHASTIC MATRIX STORAGE & PROCESSING USING THERMOPLASTIC & OIL FILM TECHNIQUES
AFCRL-64-294 N64-30568 22-23

ELECTRIC NETWORK SYNTHESIS THROUGH HYBRID MATRICES
AFCRL-63-568 N64-30959 22-09

FOURIER TRANSFORM AND MATRIX METHOD COMPUTATIONS OF TIME RESPONSE FOR ELASTIC LAYERED MEDIA
AFCRL-64-503 N64-31630 23-12

GENERALIZATION OF PERRON-FROBENIUS THEOREM ON POSITIVE ELEMENT MATRICES TO PROVE INERTIA THEOREM
MRC-484 N64-31957 23-20

RADICAL MATRIX INTERACTIONS IN LOW TEMPERATURE GLASSES - PHOTOREVERSABILITY
SSD-TDR-64-110 N64-31980 23-25

INFORMATION MATRIX AND EQUIVALENT LINEAR MODEL FOR INVESTIGATING ACCURACY AND RESOLUTION OF RADAR SIGNALS
AD-601986 N64-32063 23-08

GAME THEORY WITH UNKNOWN MATRIX
JPRS-26880 N64-32158 23-20

MATRIX OPERATIONS, LINEAR INTEGRAL EQUATIONS THEORY, AND DIFFERENTIAL EQUATIONS FOR DYNAMIC STABILITY OF RODS AND ELASTIC SYSTEMS
TDR-169/3560-30/TR-2, VOL. 4 N64-32303 23-20

DECISION THEORY IN STOCHASTIC SYSTEMS - MARKOV CHAIN MATRIX
REPT.-64-25 N64-32798 24-20

MATRIX ELEMENTS OF DECUPLET OPERATOR OF UNITARY SYMMETRY - TENSOR METHOD
UR-875-53 N64-33141 24-23

IMPROVED EXPRESSIONS FOR ELECTRON MATRIX ELEMENTS OF SPIN INTERACTION
T-R-399 N64-33431 24-23

ALGORITHMS FOR CALCULATION OF CHARACTERISTIC ROOTS AND VECTORS OF NORMALIZABLE MATRIX
ORNL-3688 N64-33440 24-20

TEST PROCEDURES FOR MULTIPLE COMPARISONS OF MEAN VECTORS WITH MULTIVARIATE NORMAL PARENT POPULATIONS OF KNOWN OR UNKNOWN COVARIANCE MATRIX
ARL-64-124 N64-33953 24-20

SENSITIVITY MATRIX OF GENERAL LINEAR MULTIVARIABLE FEEDBACK SYSTEM
R-227 N64-33969 24-09

MATRIX ALGEBRA
REDUCTION OF ARBITRARY REAL SQUARE MATRIX TO TRI-DIAGONAL FORM USING SIMILARITY TRANSFORMATION BY NEW ALGORITHM N64-10975 02-20

REACTOR TECHNOLOGY - NUCLEAR SAFETY, PRESSURIZED WATER REACTOR, XENON OSCILLATION, MATRIX ALGEBRA, AND AUTORADIOGRAPHY OF URANIUM OXIDE
WAPD-BT-29 N64-11341 02-23

FOULIS THEOREM EXTENSION TO RECTANGULAR MATRICES
ONR-RM-83 N64-12326 03-20

DIRECT SUM DECOMPOSITIONS OF HESTENES ALGEBRAS OF MATRICES & HILBERT SPACES
ONR-RM-82 N64-12327 03-20

GROUP CODE THEORY AND APPLICATION OF HADAMARD MATRIX TO CODING PROBLEM - CYBERNETICS
FTD-TT-63-544/1&2&4 N64-12384 03-16

MATRIX ALGEBRA AND LAPLACE TRANSFORMS
AFCRL-63-390 N64-16092 07-20

MATRIX ALGEBRA AND LAPLACE TRANSFORMS
AFCRL-63-391 N64-16093 07-20

SET OF PREDICATES FOR COMPUTATION OF SPACED ORDINATES - MATRIX ALGEBRA
MRC-439 N64-16620 08-20

MATRIX ANALYSIS METHODS FOR INELASTIC STRUCTURES
RTD-TDR-63-4032 N64-16829 08-33

EXISTENCE OF LEFT INVERSE OF BASIC MATRIX AND APPLICATION TO THEOREMS OF LINEAR PROGRAMMING
ONR-RM-91 N64-17122 09-20

SIMILARITY OF MATRICES WHOSE ELEMENTS LIE IN

ARBITRARY COMMUTATIVE INTEGRAL DOMAINS
MRC-449 N64-17922 10-20

GENERALIZED INVERSE OF INCIDENCE MATRIX
AD-433626 N64-18075 10-20

TESTS FOR INVERTABILITY AND POSITIVE DEFINITENESS OF MATRICES
RM-157 N64-18140 10-20

MATRIX THEORY - DOMINANCE CONDITIONS & LOCATION OF PROPER VALUES
MRC-454 N64-18380 10-20

GAME THEORY AND OPTIMAL STRATEGIES FOR MATRIX DEFINITION N64-18515 11-20

EFFECT OF EXTERNAL FORCES ON SINGLE VIBRATIONAL FREQUENCY IN COMPUTERS WITH MULTIPLE-DEGREE-OF-FREEDOM SYSTEM - MATRIX ALGEBRA - U.S.S.R.
JPRS-24138 N64-18965 11-23

VARIABLE ADJACENCY MATRIX AND TRANSFER FUNCTION OF GRAPHS N64-22868 16-16

COUPLED MODE THEORY FOR MICROWAVE DEVICES - MATRIX ALGEBRA
IR-8 N64-25859 18-08

BOUNDS FOR RANK OF SUM OF TWO MATRICES
D1-82-0343 N64-26497 18-20

BAUER FIELDS OF VALUES OF MATRIX
MRC-475 N64-27715 19-20

COMPUTER SOLUTION OF LINEAR ALGEBRAIC SYSTEM N64-29647 21-20

ERROR THEORY IN MATRIX ALGEBRA AS RELATED TO ENGINEERING PROBLEMS
ARL-TRANS-21 N64-30030 21-20

SINGULAR VALUES AND PSEUDO-INVERSE OF MATRIX - COMPUTATION OF UNITARY MATRICES & DIAGONAL TRANSFORMS AND APPLICATION TO LEAST SQUARES PROBLEMS
CS-8 N64-30962 22-20

REALIZATION OF A-MATRIX OF HALF-DEGENERATE RLC NETWORKS
R-225 N64-33711 24-09

MATRIX ANALYSIS
FORMULA FOR DETERMINING EFFECT OF MODIFYING STIFFNESS OF MEMBERS IN STRUCTURES ON EXISTING LOAD DISTRIBUTION - MATRIX ANALYSIS
ARL/SM-280 N64-14053 05-33

LINEAR PROGRAMING FOR BLOCK-DIAGONAL MATRICES
TR-32 N64-14127 05-20

REALIZATION OF BOOLEAN FUNCTIONS USING DIODE CONJUNCTION MATRICES
EUR-600.E, F N64-28091 20-20

OPTICAL SPECTRA OF LOW MOLECULAR WEIGHT COMPOUNDS USING MATRIX ISOLATION TECHNIQUE
IITRI-C6013-4 N64-28817 20-13

MATRIX-TYPE DIRECT AMMONIA-AIR FUEL CELL OPERATING AT INTERMEDIATE TEMPERATURES
REPT.-3 N64-29585 21-06

THREE-WAY FACTOR ANALYSIS OF MULTITRAIT-MULTIMETHOD MATRIX APPLIED TO PSYCHOLOGICAL TEST RESULTS
AD-600302 N64-29659 21-14

MATTER
S EXTRATERRESTRIAL MATTER

MAXIMUM PRINCIPLE
SA COMPLEX VARIABLE
MAXIMUM PRINCIPLE AND PONTRYAGIN THEOREM FOR STEEPEST DESCENT AND DYNAMIC STRESSES IN VECTOR ANALYSIS
EUR-411.E N64-14461 06-20

MAXIMUM PRINCIPLE - COMPUTATIONAL ASPECTS AND RELATIONS TO OTHER OPTIMIZATION TECHNIQUES
EUR-590.E N64-19320 12-20

MAXIMUM PRINCIPLE IN THEORY OF OPTIMAL CONTROL PROCESSES
FTD-TT-62-1746/1&2&4 N64-22143 15-16

MAXIMUM USABLE FREQUENCY
MAXIMUM USABLE FREQUENCY FORECASTS FOR F-2 LAYER
JPRS-19245 N64-10651 01-28

MAXIMUM USABLE FREQUENCIES OF RADIO COMMUNICATION LINKS
JPRS-18997 N64-10812 02-08

PREDICTED MEDIAN VALUES OF CRITICAL AND MAXIMUM USABLE FREQUENCIES FOR IONOSPHERIC PROPAGATION
RRC-B93 N64-19494 12-12

MAXWELL EQUATION
RELATIVISTIC ROTATION AND INVARIANCE OF MAXWELL EQUATIONS
NASA-TM-X-54010 N64-17694 09-23

FORMULATION OF TWO SCATTERING PROBLEMS INVOLVING MOVING MEDIA USING MAXWELL-MINKOWSKI EQUATIONS
NASA-CR-58565 N64-29692 21-11

ROTATIONAL INVARIANCE OF MAXWELL VECTOR EQUATIONS
NASA-RP-324 N64-31007 22-20

MAXWELL FLUID
STABILITY OF LAMINAR BOUNDARY LAYER FOR MAXWELLIAN FLUIDS
R63SD102 N64-18467 10-11

THEOREM ON DISTRIBUTION OF INTERNAL FORCES OF MAXWELL GAS BASED ON GAUSS-HERTZ PRINCIPLES OF MECHANICS
MD-63-8 N64-33313 24-23

MCLEOD GAUGE
EXTENSION OF LIMITS OF MCLEOD PRESSURE GAUGES BY MULTIPLE COMPRESSION
NASA-CR-52877 N64-11328 02-15

MEAN FREE PATH
HEAT TRANSFER IN IONIZED GAS WITH DEBYE LENGTH EXCEEDING MEAN FREE PATH N64-14455 06-23

MEAN FREE PATH AND BOUNDARY INFLUENCES IN METALLIC FIELD EFFECT
TR-13 N64-26034 18-23

MEASUREMENT
S DOWNRANGE ANTIMISSILE MEASUREMENT PROGRAM /DAMP/
S DOWNRANGE MEASUREMENT
S DRAG MEASUREMENT
S ELECTROMAGNETIC MEASUREMENT
S FLOW MEASUREMENT
S FREQUENCY MEASUREMENT
S FRICTION MEASUREMENT
S HUMIDITY MEASUREMENT
S IMPEDANCE MEASUREMENT
S NOISE MEASUREMENT
S OPTICAL MEASUREMENT
S PRECIPITATION PARTICLE MEASUREMENT
S PRESSURE MEASUREMENT
S RADAR MEASUREMENT
S RADIATION MEASUREMENT
S RANGE MEASUREMENT
S ROCKET MEASUREMENT
S SATELLITE MEASUREMENT
S SIGNAL MEASUREMENT
S SOUND MEASUREMENT
S STRESS MEASUREMENT
S SYNOPTICAL MEASUREMENT
S TEMPERATURE MEASUREMENT
S THRUST MEASUREMENT

MEASURING APPARATUS
SA ACCELEROMETER
INSTRUMENT FOR MEASURING LOW CONCENTRATIONS OF HYDROCARBONS AND CARBON DIOXIDE IN GASES
WRE-TN-CPD-63 N64-10411 01-15

EMITTANCE MEASURING APPARATUS FOR TEMPERATURES UP TO 4000-DEG F N64-10966 02-13

MONITOR LOCATION SAMPLING DURATION, ACCURACY, AND ANALYSIS OF RESULTS FOR MEASURING ATMOSPHERIC POLLUTION N64-11052 02-21

METERS, COLLECTING PLATES AND DIRECTIONAL SAMPLERS FOR ESTIMATING DUSTFALL - PARTICLE ORIGIN AND PHYSICAL & CHEMICAL TESTING N64-11054 02-21

MEASUREMENT OF PARTICULATE MATTER CONCENTRATION IN AIR - ATMOSPHERIC POLLUTION N64-11055 02-21

HIGH TEMPERATURE VISCOELASTOMETER N64-11377 02-15

INSTRUMENT FOR MEASURING FORCE NECESSARY TO SEPARATE SMALL METAL SPECIMENS CLEANED & JOINED IN ULTRAHIGH VACUUM
NASA-CR-52990 N64-12032 03-23

AUTOMATIC MEASUREMENT AND CONTROL DEVICES FOR INDUSTRIAL USE, AND COMPUTER SPECIFICATIONS
FTD-TT-63-763/1&2 N64-12622 04-06

INSTRUMENTS AVAILABLE FOR MEASURING MAGNETIC FIELDS IN EXTREMELY WIDE FREQUENCY RANGE
RADC-TDR-63-75 N64-12650 04-23

TRANSISTORIZED INSTRUMENTATION FOR MEASUREMENTS IN HEALTH PHYSICS
RSIC-87 N64-12997 04-16

DEVICE FOR MEASURING LAG COEFFICIENT OF SURFACE WAVE FROM MOVING LOAD N64-13566 05-23

ELECTRICAL PRESSURE PICKUP USED IN TACHOMETER TO MEASURE GYROSCOPIC SPEED AND ACCELERATION CHANGES N64-13572 05-15

MULTIRANGE AUTOMATIC BRIDGE AND POTENTIOMETER WITH MEASURING SYSTEM FOR RESISTANCE THERMOMETER AND THERMOCOUPLE GROUPS N64-13581 05-15

PERFORMANCE CHARACTERISTICS OF ELECTRODES, SIGNAL MODIFIERS, AND GRAPHIC RECORDING COMPONENTS IN PHYSIOLOGICAL MONITORING SYSTEM
AMRL-TDR-62-98/2/ N64-13872 05-14

ULTRASONIC MEASUREMENT - BIBLIOGRAPHY OF AMERICAN AND BRITISH PERIODICAL ARTICLES, 1953-1962
SID-63-168 N64-14422 06-23

CYCLED LIFETIME OF FOUR THERMOELECTRIC POWER MODULES
QPR-2 N64-14809 06-06

MAGNETIC FIELD INTENSITY METER FOR MEASURING FIELD STRENGTH
JPRS-23408 N64-15698 07-15

APPARATUS FOR MEASUREMENT OF THERMAL CONDUCTIVITY OF POWDERS IN VACUUM FROM 120 TO 350 DEG. K.
N64-15912 07-13

DEVICE FOR MEASURING WATER CONTENT OF CLOUDS AND RAIN
FTD-TT-63-621/1&2 N64-16380 08-21

HOLLOW SPHERE BOUND WITH RADIOACTIVE RADIATION RECEIVERS FOR MEASURING COMPONENTS OF ACCELERATION VECTOR
FTD-TT-63-599/1&2 N64-16428 08-15

RATE OF DETECTING TEMPERATURE GRADIENT CHANGES BY MEASURING APPARATUS
FTD-TT-63-540/1&2 N64-16483 08-15

THEORY OF QUANTUM MECHANICS, MEASURING APPARATUS, OBSERVATION, AND OPERATORS N64-16679 08-23

DEVICE FOR MEASUREMENT OF RADON IN BREATH
UR-640 N64-17466 09-16

APPARATUS FOR EXTENDING MEASUREMENTS OF REFLECTION AND TRANSMISSION AND PHOTOELECTRON YIELDS OF THIN METALLIC FILMS TO FIFTY ANGSTROMS
NASA-CR-53287 N64-17599 09-15

MEASUREMENT OF MAGNETIC PROPERTIES OF MAGNET WITH PERMEAMETER AND FLUXMETER
ASD-TDR-63-421 N64-18574 11-23

MEASURING APPARATUS FOR PLASMA ELECTRON DENSITY
AFCRL-64-247 N64-18792 11-24

PIPETTING OF LIQUIDS IN ENCLOSED HOT CELL - CHEMICAL MEASURING APPARATUS
UCRL-9661 N64-19317 12-17

DOPPLER RECEIVER TO IMPROVE MISSILE TRAJECTORY MEASUREMENTS
WRE-TN-EID-67 N64-19485 12-08

THERMOCOMPENSATION OF THERMISTOR POWER MEASURING DEVICES WITH THERMISTOR IN FEEDBACK CIRCUIT
JPRS-24477 N64-19492 12-09

APPARATUS FOR MEASURING VARIOUS TRANSISTOR PARAMETERS
FTD-TT-63-1211/1 N64-19765 12-15

GEMINI SPACECRAFT REENTRY GUIDANCE SIMULATION
NASA-CR-53687 N64-20007 13-23

TESTING OF BANSHEE PROJECT ELECTROMAGNETIC MEASURING INSTRUMENTS
EG&G-B-2687 N64-20096 13-23

ANEMOGRADIENTOGRAPH FOR AUTOMATIC RECORDING OF VERTICAL PROFILE OF WIND N64-20215 13-15

STATIONARY AUTOMATICALLY-BALANCING RECORDING TEMPERATURE-GRADIENT METER FOR RECORDING VERTICAL DISTRIBUTION OF TEMPERATURE AT VARYING ALTITUDES
N64-20216 13-15

AUTOMATICALLY RECORDING DIFFERENTIAL BALANCE METER VERSUS STANDARD BALANCE METER IN MEASUREMENT OF RADIATION BALANCE OF NATURAL SURFACES
N64-20218 13-15

AUTOMATIC INTEGRAL FLUCTUATION METERS TO DETERMINE AEROPHYSICAL VALUES N64-20219 13-15

SEMICONDUCTOR VARIANT OF INTEGRAL FLUCTUATION METER FOR MEASURING WIND DIRECTION
N64-20221 13-09

ASSEMBLY AND SCHEMATIC DRAWINGS, TEST DATA, AND PRODUCTION COST ESTIMATES OF CALIBRATOR FOR RADIATION METER N64-20530 13-15

OPERATION AND CALIBRATION MANUAL FOR LUNAR SOIL PROPERTIES MEASURING DEVICE /LSPMD/ TEST CONSOLE
NASA-CR-56174 N64-20812 14-29

DIGITAL MEASURING SYSTEMS AND ANALOG-TO-DIGITAL CONVERTERS N64-21751 15-20

UNIVERSAL MEASURING MICROSCOPE
FTD-TT-64-7/1&2 N64-22040 15-15

MEASURING APPARATUS FOR LINEAR ACCELERATIONS
FTD-TT-62-860/1&2 N64-22152 15-15

OPTICAL INSTRUMENTS AND OTHER PRECISION MEASURING APPARATUS
FTD-TT-62-909/1&2&3&4 N64-22476 15-23

HIGH SPEED CONDENSING VAPOR FLOW PRESSURE DROP DETERMINATION AS FUNCTION OF HEAT TRANSFER
NASA-CR-56238 N64-22478 15-13

APPLICATION, CALIBRATION, AND SOURCES OF ERRORS OF HIGH VACUUM MEASURING INSTRUMENTATION
FDL-TDR-64-68 N64-22559 15-15

DEVICE FOR MEASURING AND RECORDING ATMOSPHERIC TURBULENCE
FTD-TT-63-623/1&2 N64-22653 15-15

INSTRUMENT FOR MEASURING SPECTRAL EMITTANCE OF SOLIDS IN INFRARED REGION AT LOW TEMPERATURES
NOLC-589 N64-22912 16-23

GAS COUNTER FOR MEASUREMENT OF BETA RADIATION FROM FISSION PRODUCTS N64-23322 16-12

ATTITUDE DETERMINATION OF SPHERICAL INERTIAL

MEASURING UNIT
R-435 N64-23672 16-20

MOTION MEASURING INSTRUMENTATION FOR HYDROFOIL CRAFT
MPD-47-135/R/ N64-24338 17-15

NONLINEARITY OF OUTPUT FREQUENCY AS FUNCTION OF INPUT FOR VIBRATING STRING MEASURING INSTRUMENTS USING QUADRATIC TRANSDUCERS N64-24523 17-15

APPARATUS FOR MEASURING PULSE CHARACTERISTICS OF SEMICONDUCTOR DIODES N64-24525 17-09

METROLOGY - CONTROL OF MEASURING APPARATUS N64-25388 17-15

RAMJET ENGINE MEASURING APPARATUS N64-25389 17-15

MEASURING APPARATUS FOR TEMPERATURE CHANGES
FTD-TT-64-82/1&2&4 N64-25445 17-15

APPARATUS FOR MEASURING VARIATION WITH TEMPERATURE OF CURRENT CARRYING CAPACITY OF SUPERCONDUCTING MATERIAL AS FUNCTION OF EXTERNALLY APPLIED MAGNETIC FIELD
AMP-141 N64-25758 17-09

RADIO INTERFERENCE MEASURING SET
AL-TDR-64-30 N64-25821 17-09

MEASURING APPARATUS AND TECHNIQUES FOR DIELECTRIC PERMEABILITY AND PERMITTIVITY OF VARIOUS MATERIALS FROM ONE CYCLE TO 100 GIGACYCLES PER SECOND
TR-189 N64-27896 20-09

DEVICES FOR MEASURING MECHANICAL IMPEDANCE
DTMB-1584 N64-28708 20-15

APPARATUS FOR MEASUREMENT OF VAPOR PRESSURES OF AQUEOUS SOLUTIONS AT HIGH TEMPERATURE
AERE-R-3565, REV. N64-28809 20-15

THERMOCONDUCTIVITY AND RADIANT ENERGY MEASURING APPARATUS FOR NONELECTRIC CONDUCTORS AT HIGH TEMPERATURES
NASA-CR-58132 N64-28966 20-15

PHYSICAL SCIENCES - CONTROLLED RELEASE OF THERMONUCLEAR ENERGY, MEASUREMENT APPARATUS, CONFERENCES, AND PUBLICATIONS
AEC-TR-5332 N64-29052 21-23

PERIPHERAL EQUIPMENT AND MEASURING INSTRUMENTS FOR CLOSED LOOP SYSTEM
QTPR-9 N64-29437 21-24

LENGTH-MEASURING INTERFEROMETER USING CONTINUOUS GAS LASER LIGHT SOURCE
Y-1466 N64-29624 21-15

MEASUREMENT OF PHOTOELECTRIC PROPERTIES OF SEMICONDUCTORS WITHOUT CONTACT BETWEEN ELECTRODE AND SAMPLE SURFACE
FTD-TT-64-155/1&2 N64-30105 21-25

MULTIPLE BEAM INTERFEROMETER MEASUREMENT OF EVAPORATED THIN FILM THICKNESS
TR-2433 N64-30577 22-15

ATMOSPHERIC BOIL MEASURING APPARATUS
REPT.-6-5 N64-31127 22-12

NONDESTRUCTIVE SPECIFIC GRAVITY MEASURING EQUIPMENT USING RADIATION TECHNIQUE
REPT.-58-92-PR-59 N64-31237 22-15

HIGH PRECISION DEVICE FOR LENGTH MEASUREMENTS IN LARGE ACCELERATOR SURVEYING
CERN-64-39 N64-31273 22-10

CLASSICAL APPARATUS MEASUREMENT OF QUANTUM ENSEMBLE
ARL-64-184 N64-31441 23-23

OPTICAL EQUIPMENT AND MEASURING APPARATUS FOR MINING AND RESEARCH
RSIC-241 N64-32493 23-33

PROTOTYPE ALL-MECHANICAL PORTABLE FIELD CALIBRATOR FOR RADIOLOGICAL SURVEY INSTRUMENTS
AD-446447 N64-32578 23-15

MEASURING DEVICE FOR AUTOMATION AND MECHANIZATION OF CONTROL, AND TIME INTERVAL-NUMBER FUNCTION GENERATOR
JPRS-27005 N64-33150 24-09

HIGH RANGE GAMMA RAY SURVEY METER TO MEASURE EXPOSURE RATES
AECL-2042 N64-33473 24-15

PRECISION TOOLS, MACHINE TOOLS, AND MEASURING APPARATUS
NASA-SP-5013 N64-33608 24-17

TOOL FOR MEASURING DEVIATION FROM PARALLEL N64-33613 24-15

AUTOMATIC MEASURING-RECORDING INSTRUMENT FOR ANODE AND CATHODE POLARIZATION
AFCRL-64-518 N64-33933 24-15

MECHANICAL PROPERTY
SA BRITTLENESS
SA COMPRESSION
SA CREEP
SA DEFORMATION
SA DUCTILITY
SA ELASTICITY
SA FAILURE
SA FATIGUE
SA FRACTURE
SA HARDNESS
SA PERMEABILITY
SA PHOTOELASTICITY
SA PLASTICITY
SA RUPTURE
SA SHEAR STRAIN
SA STRESS
SA THERMAL STRESS
MECHANICAL & THERMODYNAMIC PROPERTIES OF HOT PRESSED ZIRCONIUM CARBIDE
NASA-CR-52455 N64-10339 01-18

CHEMICAL AND MECHANICAL PROPERTIES OF ALUMINUM, NICKEL, STEEL AND TITANIUM ALLOYS
NASA-CR-52533 N64-10341 01-18

MECHANICAL PROPERTIES OF THREE HOT-WORKED STEELS AND ONE STAINLESS STEEL - TENSILITY, COMPRESSION, SHEET SINGLE SHEAR, BEARING, & BEND TESTS
ASD-TDR-63-116 N64-10545 01-18

PHYSICAL AND MECHANICAL PROPERTIES STUDIED IN PREPARING NONSTOICHIOMETRIC METAL CARBIDES - TITANIUM CARBIDE
NASA-CR-52420 N64-10612 01-18

SOLID STATE PHYSICS - FRICTION OF DISLOCATION IN MONOCRYSTALS & MECHANICAL PROPERTIES OF COPPER-GOLD ALLOYS
JPRS-18062 N64-10738 02-25

MECHANICAL PROPERTIES OF ORDERED COPPER-GOLD ALLOY CRYSTALS N64-10740 02-25

MECHANICAL PROPERTY IMPROVEMENT IN WELDED ALUMINUM ALLOYS - WELDING TECHNIQUES
AD-418106 N64-11373 02-18

STRENGTH PROPERTIES OF TUNGSTEN AND TUNGSTEN BASE ALLOYS
NADD-TR-60-37, PT. 4 N64-11748 03-18

MECHANICAL PROPERTIES OF MOLYBDENUM AND TUNGSTEN SILVER ALLOYS
WAL-TR-372/32-7-T3 N64-12316 03-18

CHEMICAL COMPOSITION, STABILITY, AND ELECTRICAL & MECHANICAL PROPERTIES OF POLYORGANOSILOXANES AND POLYORGANOMETALLIC SILOXANE POLYMERS N64-12807 04-07

ULTRASONIC TREATMENT OF METAL PARTS TO IMPROVE MECHANICAL PROPERTIES
FTD-TT-63-1001/1 N64-12861 04-17

WELDING TEST AND MECHANICAL PROPERTIES OF STEEL ALLOY
A240 N64-13250 04-18

MECHANICAL PROPERTIES OF SOLIDS, WAVE PROPAGATION & STRUCTURAL RESPONSE, HYPERVELOCITY IMPACT, AND FRACTURE
ASD-TDR-63-140 N64-13431 05-01

CONTINUUM THEORY OF ORIENTED MATERIALS TO DESCRIBE NONLINEAR MECHANICAL BEHAVIOR OF SOLIDS
N64-13433 05-25

MECHANICAL PROPERTIES OF BAR-SHAPED SILICON CARBIDE SINGLE CRYSTALS
AD-427371 N64-13860 05-19

TENSILE, RUPTURE, CREEP, FATIGUE, AND OTHER MECHANICAL PROPERTIES OF INCONEL X
QR-7 N64-13895 05-20

FABRICATION HISTORY, MICROSTRUCTURE, AND MECHANICAL PROPERTIES OF REFRACTORY METALS AND ALLOYS
DMIC-186 N64-13970 05-18

OPTIMIZATION OF ELECTRICAL AND MECHANICAL CHARACTERISTICS OF RIGID C-BAND RADOME
RADC-TDR-63-481 N64-14311 06-08

VANADIUM ALLOY DEVELOPMENT AND MECHANICAL PROPERTY EVALUATION
IITRI-8231-10 N64-15567 07-18

EFFECT OF TECHNOLOGICAL PROCESSES AND PRODUCTION METHODS ON PROPERTIES OF REFRACTORY METAL CASTINGS
JPRS-23064 N64-15770 07-18

MECHANICAL AND PHOTOELASTIC BEHAVIOR OF BIREFRINGENT BAR SUBJECTED TO VIBRATIONS
N64-16205 08-23

MECHANICAL PROPERTIES OF ALUMINUM ALLOYS AND ALUMINUM-BASED FUEL DISPERSION AT HIGH TEMPERATURE
ORNL-3557 N64-16536 08-18

MECHANICAL PROPERTIES OF TITANIUM ALLOY WELDMENT
A467 N64-16785 08-18

MECHANICAL PROPERTIES OF COPPER AND COPPER ALLOYS
N64-17047 09-18

MECHANICAL STRENGTH OF SINTERED METAL POWDERS
N64-17060 09-18

RESISTANCE TO PLASTIC DEFORMATION & HARDNESS OF BINARY SYSTEMS OF NICKEL WITH CHROMIUM, TUNGSTEN, AND MOLYBDENUM AT HIGH TEMPERATURES
N64-17068 09-18

PLASTICITY & MECHANICAL PROPERTIES OF TITANIUM ALLOYS AS FUNCTIONS OF HOT DEFORMATION
N64-17084 09-18

FEASIBILITY OF USING ULTRASONIC TECHNIQUES TO MEASURE MECHANICAL PROPERTIES OF CAST POLYURETHANE
ASD-TDR-62-886 N64-17116 09-26

HIGH TEMPERATURE MECHANICAL PROPERTIES OF FOAM-IN-PLACE SANDWICH CONSTRUCTION
A485 N64-17143 09-19

INFLUENCE OF MICROSTRUCTURE ON MECHANICAL PROPERTIES OF CERAMICS
HR-63-264 N64-17441 09-25

INFLUENCE OF THERMAL TREATMENTS ON MICROSTRUCTURE AND MECHANICAL PROPERTIES OF ALUMINUM-ALUMINUM OXIDE ALLOYS
NASA-CR-53558 N64-18305 10-23

INFLUENCE OF VACUUM MELTING ON MECHANICAL PROPERTIES OF STEELS N64-18532 11-18

MECHANICAL PROPERTIES & RECRYSTALLIZATION OF SINGLE CRYSTALS OF MOLYBDENUM
FTD-MT-63-43/162 N64-18670 11-18

COMPARATIVE STUDY OF 354-T61 AND 356-T6 ALUMINUM-SILICON-COPPER-MAGNESIUM CASTING ALLOYS FOR MECHANICAL PROPERTY ADVANTAGES
SM-44636 N64-18708 11-18

EFFECT OF MAGNESIUM CONCENTRATION ON MECHANICAL PROPERTIES OF 356-T6 ALUMINUM ALLOYS
SM-43094 N64-18712 11-18

VARIATION EFFECT OF BERYLLIUM CONCENTRATION ON MECHANICAL STRENGTH OF 356-T6-TYPE ALUMINUM ALLOY
SM-44658 N64-18713 11-18

MECHANICAL PROPERTIES OF MARAGING STEEL - FRACTURE TOUGHNESS, YIELD STRENGTH
SM-43110 N64-18714 11-18

MECHANICAL PROPERTIES OF CRYOGENIC MATERIALS
AD-420406 N64-18743 11-18

MECHANICAL PROPERTIES OF REFRACTORY METALS AND ALLOYS - RADIATION EFFECTS
ORNL-3593 N64-19037 11-18

MOLYBDENUM AND MOLYBDENUM-BASE ALLOYS - MECHANICAL PROPERTIES AND FABRICATION TECHNOLOGY
AD-436397 N64-19051 11-18

RADIATION EFFECT ON MECHANICAL PROPERTIES OF POLYMERS - BIBLIOGRAPHY
SC-R-64-124 N64-19241 11-19

MECHANICAL PROPERTIES OF GRANULAR SYSTEMS - SOIL ENGINEERING
AFCRL-64-79 N64-19412 12-12

MECHANICAL PROPERTIES OF SAPPHIRE
ATN-64/9236/-14 N64-19773 12-19

MECHANICAL PROPERTIES OF TANTALUM-HYDROGEN AND TANTALUM-MOLYBDENUM ALLOYS - DUCTILE-BRITTLE TRANSITION N64-19927 12-18

AGING AND HOMOGENIZING HEAT EFFECT ON MECHANICAL PROPERTIES OF 17-4PH STEEL
FTDM-3226 N64-20068 13-18

MECHANICAL AND METALLURGICAL PROPERTIES OF STEEL EXTRUSION FOR F-111 AIRCRAFT
FTDM-3234 N64-20069 13-18

FORGING PROCEDURE AND MECHANICAL PROPERTIES OF NICKEL-COBALT-MOLYBDENUM MARAGING STEEL
FZM-2608 N64-20070 13-18

MECHANICAL AND PHYSICAL PROPERTIES OF DISPERSIONS OF BERYLLIUM PARTICLES IN DUCTILE ALUMINUM MATRIX
AD-440083 N64-20563 13-18

MATERIALS SCIENCE - THERMAL AND MECHANICAL PROPERTIES, MORPHOLOGY, & INFRARED SPECTROSCOPY
NASA-CR-56129 N64-20709 13-19

MECHANICAL PROPERTIES OF POLYBUTADIENE AND POLYURETHANE SOLID PROPELLANTS
REPT.-6 N64-20853 14-26

MECHANICAL PROPERTY CHANGES OF ALUMINUM ALLOYS WITH INCREASING THICKNESS OF OXIDE FILM FORMED BY ANODIZATION N64-20921 14-18

EFFECTS OF ALLOYING ELEMENTS AND IMPURITIES ON MECHANICAL PROPERTIES OF MARAGING STEEL
TP-360 N64-21015 14-18

MECHANICAL PROPERTIES OF 18 PERCENT NICKEL ALLOY MARAGING STEEL
DMIC-198 N64-21096 14-18

TENSILE STRESS RELAXATION TEST FOR MECHANICAL PROPERTIES OF VISCOELASTIC MATERIALS
ABL/X-106 N64-21115 14-34

IMPROVEMENT OF MECHANICAL PROPERTIES OF MAGNESIUM-NEODYMIUM ALLOYS BY FURTHER ALLOYING
N64-21190 14-18

CHANGES IN STRUCTURE AND MECHANICAL PROPERTIES OF ALLOYS BASED ON METAL COMPOUNDS BY SUBSTITUTING LOW-MELTING COMPONENT N64-21192 14-18

PRODUCTION METHODS FOR POLYCRYSTALLINE BORON AND MECHANICAL PROPERTIES OF BORON CASTINGS
HR-64-255 N64-21497 15-18

MECHANICAL PROPERTIES OF INERT SOLID FUEL PROPELLANT UNDER COMBINED STATES OF STRESS AT ROOM TEMPERATURE
ABL/X-114 N64-21586 15-26

EFFECT OF THERMAL-MECHANICAL HISTORY ON MECHANICAL BEHAVIOR OF MAGNESIUM OXIDE
HR-64-258 N64-22336 15-25

MECHANICAL PROPERTIES OF HIGH STRENGTH STEEL FORGINGS
RTD-TDR-63-4050 N64-22568 15-18

PHYSICAL AND MECHANICAL PROPERTIES OF INCONEL HONEYCOMB CORE
A736 N64-22581 15-18

MECHANICAL PROPERTIES OF SINTERED BERYLLIUM WITH LOW EMISSIVITY GOLD COATING
A738 N64-22583 15-18

MECHANICAL PROPERTIES OF COMMERCIAL NICKEL BASE HEAT RESISTANT ALLOYS
JPRS-24919 N64-22745 16-18

EFFECTS OF TITANIUM, ALUMINUM, & GAS CONTENT ON MECHANICAL PROPERTIES OF NIMONIC ALLOY
JPRS-25005 N64-23253 16-33

PLASTIC DEFORMATION EFFECT ON MECHANICAL PROPERTIES OF NICKEL ALLOYS & METALLOGRAPHY OF MOLYBDENUM
FTD-TT-62-1169/16264 N64-23457 16-18

HIGH TEMPERATURE PLASTIC DEFORMATION EFFECTS ON MECHANICAL PROPERTIES OF NICKEL BASE ALLOYS
N64-23458 16-18

RESIDUAL STRESSES AND MECHANICAL PROPERTIES OF HEAT RESISTANT ALLOYS AFTER ELECTRIC DISCHARGE TREATMENT N64-23503 16-18

MECHANICAL PROPERTIES OF COMPOSITE MATERIALS FOR EXPANDABLE SPACE STRUCTURES N64-23723 16-19

MECHANICAL PROPERTIES AND FABRICATION OF NIOBIUM-TUNGSTEN-ZIRCONIUM ALLOY SHEET
A742 N64-24210 16-18

MECHANICAL PROPERTIES OF PLASTIC LAMINATES AT CRYOGENIC TEMPERATURES
ASD-TDR-62-794 PT. II N64-24212 16-19

MECHANICAL PROPERTIES OF PYROLYTIC GRAPHITE
R64SD26 N64-24242 17-19

MECHANICAL PROPERTIES OF CYLINDRICAL SHELLS FORMED BY SPIN FORGING OF 18 PERCENT NICKEL MARAGING STEEL N64-24358 17-17

MECHANICAL PROPERTIES OF 18 PERCENT NICKEL MARAGING STEEL AT LOW AND CRYOGENIC TEMPERATURES
N64-24363 17-18

MECHANICAL PROPERTIES AND TENSILE STRENGTH OF 18 PERCENT NICKEL MARAGING STEEL PRODUCED BY INVESTMENT CASTING N64-24366 17-17

MECHANICAL PROPERTIES OF 18 PERCENT NICKEL MARAGING STEEL AT NORMAL AND HIGH TEMPERATURES
N64-24369 17-18

PHYSICAL AND MECHANICAL PROPERTIES OF CRYOGENIC MATERIALS - HANDBOOK
PB-171809-4 N64-25042 17-18

MECHANICAL PROPERTIES OF WELDED HIGH STRENGTH TITANIUM ALLOY SHEET
NASA-CR-56787 N64-25506 17-18

EFFECT OF QUENCH MEDIA ON ELECTRICAL AND MECHANICAL PROPERTIES OF ALUMINUM
RM-228 N64-25923 18-18

METALLURGY, COMPOSITION, AND MECHANICAL PROPERTIES OF DISPERSION STRENGTHENED TANTALUM BASE ALLOYS
NASA-CR-54105 N64-25949 18-18

MECHANICAL PROPERTIES AND FRACTURE MODES OF PYROLYTIC GRAPHITE
R64SD39 N64-26272 18-19

MECHANICAL PROPERTIES OF ECHO II SATELLITE LAMINATES
NASA-TN-D-2367 N64-26543 18-18

MECHANICAL PROPERTIES OF IRON-COBALT-VANADIUM ALLOY
DMS-63-23 N64-26618 18-18

INFLUENCE OF METALLURGICAL VARIABLES ON TENSILE PROPERTIES OF HASTELLOY N
ORNL-3661 N64-26790 18-18

PREPARATION AND MECHANICAL PROPERTIES OF PORCELAIN WITH MAXIMUM SINTERING TEMPERATURE
N64-27045 19-19

MECHANICAL PROPERTIES AND DEFORMATION CHARACTERISTICS OF METALS AND ALLOYS UNDER PRESSURE
NEL-142 N64-27187 19-18

MECHANICAL PROPERTIES OF PLASTIC FOAMS AND HONEYCOMBS FOR USE AS BACKUP CONFIGURATIONS FOR CENTAUR INTERMEDIATE BULKHEAD
MRG-312 N64-27212 19-19

THERMODYNAMIC AND MECHANICAL PROPERTIES OF NIOBIUM-NITROGEN AND NIOBIUM-ZIRCONIUM-NITROGEN ALLOYS
ML-TDR-64-134 N64-27461 19-18

EFFECT OF HYDROGEN CONTENT ON MECHANICAL PROPERTIES OF TITANIUM-6 ALUMINUM-4 VANADIUM BAR AT MINUS 423 DEG F
SM-44661 N64-27516 19-18

MECHANICAL PROPERTIES OF BORON - FRACTURE AND CRACK PROPAGATION
HR-64-266 N64-27699 19-18

MECHANICAL PROPERTIES OF SOLID PROPELLANTS
REPT.-3 N64-27735 19-26

EFFECTS OF THERMOMECHANICAL TREATMENTS ON MECHANICAL PROPERTIES OF HIGH STRENGTH STEELS
AD-603346 N64-27847 19-18

EFFECT OF MECHANICAL DAMAGE ON PERFORMANCE OF FILAMENT-WOUND MOTOR CASES
GER-11623 N64-27964 20-27

MECHANICAL PROPERTIES OF NICKEL-BASE SUPERALLOYS FOR USE IN SUPERSONIC TRANSPORT AIRCRAFT AT HIGH TEMPERATURES
NASA-CR-92 N64-28312 20-18

THERMODYNAMIC, MECHANICAL, MAGNETIC, AND TRANSPORT PROPERTIES OF GROUP V AND VI ANIONS
ANL-6856 N64-28727 20-25

PHYSICAL AND MECHANICAL PROPERTIES OF METASTABLE GAMMA PHASE OF URANIUM ALLOY CONTAINING NIOBIUM AND ZIRCONIUM
UCRL-7869 N64-28778 20-18

MECHANICAL PROPERTIES OF CAST METALS AND METHODS OF CASTING
JPRS-25537 N64-29035 21-18

NEW HIGH STRENGTH STEELS WITH GOOD WELDING AND MECHANICAL PROPERTIES N64-29037 21-18

EFFECT OF COMPLEX REDUCING AGENT IN SMELTING ON MECHANICAL PROPERTIES OF CAST LOW-ALLOY MANGANESE STEEL N64-29038 21-18

EFFECT OF CASTING MOLD MATERIAL ON MECHANICAL PROPERTIES OF REFRACTORY METALS
N64-29040 21-18

EFFECTS OF TECHNOLOGICAL PROCESSES ON MECHANICAL PROPERTIES OF CAST TITANIUM AND MOLYBDENUM ALLOYS

N64-29041 21-18

PHYSICAL AND MECHANICAL PROPERTIES OF IRON AND NICKEL ALLOYS N64-29042 21-18

EFFECT OF CERIUM ON MECHANICAL PROPERTIES OF CAST, HEAT-RESISTANT, CHROMIUM-MOLYBDENUM-VANADIUM STEEL N64-29043 21-18

INFLUENCE OF PROCESSING FACTORS ON MECHANICAL PROPERTIES OF HEAT-RESISTANT NICKEL-FREE CHROMIUM-MANGANESE STEEL N64-29044 21-18

CORROSION RESISTANCE AND MECHANICAL PROPERTIES OF STAINLESS STEEL N64-29046 21-18

MECHANICAL PROPERTIES OF ALUMINUM-MAGNESIUM ALLOYS N64-29047 21-18

MECHANICAL PROPERTIES - CRYSTALLOGRAPHY OF SLIP & CLEAVAGE IN MOLYBDENUM-RHENIUM CRYSTALS
NASA-CR-58288 N64-29195 21-18

GROWTH AND PROPERTIES OF FILAMENTARY SINGLE CRYSTALS OF PURE METALS - COPPER, SILVER, GOLD, AND ALUMINUM
ASD-TDR-63-641 N64-29250 21-25

NUCLEAR RADIATION EFFECTS ON ELECTRIC, MECHANICAL, AND OPTICAL PROPERTIES OF MERLON POLYCARBONATE
NARF-63-19T N64-29804 21-19

MECHANICAL BEHAVIOR OF FIBERS SUBJECTED TO STATIC LOADS
ML-TDR-64-118 N64-29852 21-33

IMPURITY EFFECTS ON ZIRCALOY-2 MICROSTRUCTURE, MECHANICAL PROPERTIES, AND CORROSION RATES
BM-RI-6536 N64-30398 22-18

MECHANICAL PROPERTIES OF GRAPHITE
WADD-TR-61-72, VOL. XXXV N64-30545 22-33

MECHANICAL AND MICROMECHANICAL PROPERTIES OF BORON - THERMAL STRESS AND FRACTURE STRENGTH MEASUREMENTS
IR-3 N64-30601 22-25

TENSILE AND COMPRESSIVE PROPERTIES OF PLASTIC LAMINATES REINFORCED WITH UNWOVEN GLASS FIBERS
FPL-052 N64-30686 22-19

MECHANICAL PROPERTIES OF NICKEL AND COBALT ALLOYS
ESRD-13-10 N64-30705 22-18

NEUTRON IRRADIATION EFFECTS ON MECHANICAL PROPERTIES OF HYDRIDED ZIRCONIUM ALLOYS
AECL-1986 N64-30906 22-18

METALLURGY, MECHANICAL PROPERTIES, AND WELDING PROPERTIES OF MARAGING STEEL
ASD-TDR-62-996 N64-30923 22-18

MECHANICAL REACTION OF PLAIN WEAVE FABRIC TO UNIFORM BIAXIAL STRESS
ML-TDR-64-239 N64-30990 22-33

MICROSTRUCTURE AND MECHANICAL PROPERTIES OF CAST IRON WITH YTTRIUM AS NODULIZER
REPT.-64-730 N64-31041 22-18

NASA TESTS ON MECHANICAL PROPERTIES OF MATERIALS APPLICABLE FOR SUPERSONIC TRANSPORTS
NASA-TM-X-1013 N64-31220 22-18

MECHANICAL PROPERTIES OF STRESS-RELIEVED ALUMINUM ALLOY
QR-4 N64-31321 22-18

PROPERTIES OF ELECTROMECHANICAL TRANSMISSION-TYPE CONVERTERS BY LINEAR EQUATIONS AND EQUIVALENT CIRCUITS N64-31366 23-09

COMPOSITION AND TEMPERATURE EFFECTS ON MECHANICAL PROPERTIES OF ALUMINUM ALLOYS WITH MAGNESIUM DURING CASTING IN CHILL MOLD N64-31421 23-18

BIBLIOGRAPHY ON GROUPS IV, V, AND VI TRANSITION METALS - PREPARATION METHODS, CRYSTAL STRUCTURE, PHASE TRANSITIONS, AND PHYSICAL, MECHANICAL, AND TRANSPORT PROPERTIES
ORNL-RMIC-3 N64-31466 23-25

SEARCH FREQUENCY, DATA INPUT, DOCUMENT ACQUISITION, AND LINK-ROLE INDEXING OF MECHANICAL PROPERTIES DATA CENTER
ML-TDR-64-235 N64-31896 23-10

EFFECTS OF VARIATIONS IN CARBON CONTENT AND ALLOYING ELEMENT CONTENT ON MECHANICAL PROPERTIES OF STEELS CONTAINING NICKEL, CHROMIUM, AND MOLYBDENUM
S-11211 N64-32055 23-18

IMPURITY ASSAY METHODS, AND EFFECT OF CARBON AND OXYGEN ON WORKING AND MECHANICAL PROPERTIES OF MOLYBDENUM
REPT.-4 N64-32076 23-18

MECHANICAL AND PHYSICAL PROPERTIES OF THREE SUPERALLOYS
DMIC-MEMO-193 N64-32179 23-18

MECHANICAL PROPERTIES OF HIGHLY FILLED ELASTOMERS OF POLYURETHANE RUBBERS
CL/64/49 N64-32289 23-19

MECHANICAL PROPERTIES OF CRYOGENIC-STRETCH-FORMED STAINLESS STEELS AT CRYOGENIC TEMPERATURES - HIGH STRENGTH PRESSURE VESSEL MATERIALS
NASA-TN-D-2202 N64-32403 23-18

ELECTRICAL AND MECHANICAL PROPERTIES OF REFRACTORY METAL CARBIDES - CARBIDES OF TITANIUM, NIOBIUM, AND ZIRCONIUM
PR-2 N64-32517 23-25

GRAIN BOUNDARY EFFECTS ON MECHANICAL PROPERTIES OF POLYCRYSTALLINE AGGREGATES
TR-6 N64-32555 23-25

NUCLEAR RADIATION EFFECTS ON MECHANICAL PROPERTIES OF ACETAL RESINS
NARF-63-18T N64-32579 23-19

DATA RETRIEVAL AND STORAGE OF MECHANICAL PROPERTY INFORMATION OF METALS AND REINFORCED PLASTICS
ASD-TDR-63-566, PT. I N64-32610 23-10

HEAT TREATMENT FOR IMPROVING MECHANICAL PROPERTIES OF WELDED JOINTS IN HIGH STRENGTH ALUMINUM ALLOYS
REPT.-2-64-16 N64-32622 23-18

SPECIMEN CONFIGURATION EFFECTS ON MECHANICAL PROPERTY VALUES FOR SUPERALLOY AND COATED REFRACTORY ALLOYS
SM-44631 N64-32820 24-18

MECHANICAL PROPERTIES OF CHROMIUM, MOLYBDENUM, AND TUNGSTEN WITH RHENIUM ADDITION IN SOLID SOLUTION
NASA-CR-118 N64-33078 24-18

EFFECTS OF PURITY AND STRUCTURE ON PHYSICAL AND MECHANICAL PROPERTIES OF ARC-MELTED TUNGSTEN
NASA-TN-D-2503 N64-33085 24-18

MECHANICAL PROPERTIES OF SIMULATED SOLID PROPELLANTS UNDER HIGH STRAIN RATE AND LOW TEMPERATURE ENVIRONMENT
NRL-ONR-3 N64-33273 24-26

MECHANICAL PROPERTIES OF GRAPHITE AT HIGH TEMPERATURES
JPRS-27097 N64-33302 24-19

EFFECTS OF LOADING AND ADHESION ON MECHANICAL BEHAVIOR OF FILLED RUBBER INSULATION IN ROCKET CHAMBERS
NRL-MEMO-1563 N64-33522 24-19

STABILITY, FAILURE RATE, ACCELERATION, AND MECHANICAL RUGGEDNESS OF SILICON PLANAR EPITAXIAL TRANSISTOR
AD-607294 N64-33555 24-17

MECHANICAL PROPERTIES OF COMPOSITE MATERIAL FORMED BY INFILTRATION OF POROUS CERAMIC WITH EPOXY RESIN

REPT.-1780-TR N64-33823 24-19

ALTERATIONS IN MECHANICAL PROPERTIES OF NICKEL & NICKEL, COBALT & FERROUS ALLOYS DUE TO EXPLOSIVE STRESS WAVE
NWL-1930 N64-33861 24-18

MECHANICAL & PHYSICAL PROPERTIES OF TZM ALLOY SHEET AND TUNGSTEN SHEET
QPR-7 N64-33948 24-18

MECHANICAL RESONANCE
APPLICATION OF NUCLEAR RESONANCE SENSING TO MEASUREMENT OF MECHANICAL MOTION
R63SD317 N64-31158 22-23

MECHANICAL SYSTEM
RESERVE MECHANICAL SYSTEMS FOR OPERATIONAL PROBLEM IN REDUNDANT AUTOMATIC SYSTEMS N64-10697 02-06

RELIABILITY OF MECHANICAL AND ELECTROMECHANICAL COMPONENTS FOR IMPROVED DESIGN OF CIRCUITS
APJ-309-1 N64-11458 03-17

MECHANICAL SYSTEMS
FTD-TT-63-254/1&2 N64-23551 16-01

SOLUTIONS FOR EQUATIONS OF MOTION OF MECHANICAL SYSTEMS N64-23552 16-23

CONTROLLED SYSTEMS WITH NONHOLONOMIC RELATIONSHIPS N64-23553 16-06

RELATIONSHIP BETWEEN GEOMETRICAL & KINEMATIC ELEMENTS OF PARTICLE MOVING IN ELLIPTICAL ORBIT N64-23554 16-23

MECHANICAL SUPPORT SYSTEM FOR INNER LIQUID HYDROGEN TANK OF ARC JET FEED SYSTEM N64-25025 17-26

MECHANICS /GEN/
SA CELESTIAL MECHANICS
SA CONTINUUM MECHANICS
SA FLIGHT MECHANICS
SA FLUID MECHANICS
SA FRACTURE MECHANICS
SA HYDRODYNAMICS
SA KINETICS
SA QUANTUM MECHANICS
SOLUTION TO N-BODY SPACE MECHANICS PROBLEMS VIA NUMERICAL INTEGRATION - IBM 7090 - FORTRAN PROGRAM
NASA-TN-D-1730 N64-10174 01-20

FOUR-DIMENSIONAL FORMULATION OF NEWTONIAN MECHANICS AND THEIR RELATION TO SPECIAL & GENERAL THEORY OF RELATIVITY N64-10858 02-23

ORBITAL AND CONTROL MECHANICS OF SYNCOM COMMUNICATIONS SATELLITES
IAC PAPER-82 N64-12350 03-32

THERMOMECHANICAL PROPERTIES OF DEFORMED AND UNDEFORMED AUSTENITIC STEEL
AD-424403 N64-13095 04-18

TRANSDUCERS FOR MECHANICAL PARAMETERS OF MACHINES
FTD-TT-62-1334/1&2 N64-16054 07-15

THERMOMECHANICAL PROCEDURE OF PRESSURE WORKING HIGH MELTING HEAT RESISTANT MOLYBDENUM & CHROMIUM N64-17081 09-17

THERMOMECHANIC TREATMENT OF LOW ALLOY STEELS INVOLVING BAINITE REACTION
AD-430911 N64-17289 09-18

ORBIT APOGEE, PERIGEE, AND INCLINATION INFLUENCE ON DESIGN OF SOLAR ENERGY SYSTEMS N64-17380 09-06

LUNG MECHANICS & VENOUS ADMIXTURE IN NEGATIVE PRESSURE BREATHING N64-17931 10-16

EQUATIONS OF ORBITAL MECHANICS SHOWING INTER-RELATION AMONG SATELLITE ALTITUDE, SPEED, PERIOD, AND KINETIC AND POTENTIAL ENERGIES
SSD-TDR-64-20 N64-18028 10-29

MECHANICS AND GEOMETRY OF GENERAL ORBIT CHANGE OF EARTH SATELLITE ORBIT CAUSED BY SINGLE IMPULSE - DIGITAL COMPUTER PROGRAM
ESD-TDR-63-481 N64-19772 12-29

THERMOMECHANICAL TREATMENT AND STRENGTHENING OF ALLOYS
JPRS-24942 N64-21286 14-18

THERMOMECHANICAL TREATMENT OF ULTRAHIGH-STRENGTH BAINITIC STEEL
AD-439231 N64-21575 15-18

EXTENSION OF LAGRANGIAN MECHANICS TO SYSTEMS OF VARIABLE MASS - ACCOUNTING FOR INTERNAL MOTION OF PARTICLES
NH-TRANS-105 N64-21825 15-23

MECHANICS OF METALLIC CREEP N64-21986 15-33

RELATIVISTIC STATISTICAL MECHANICS APPLIED TO COVARIANT THEORY OF BROWNIAN MOTION
TH-51 N64-22435 15-23

APPLIED MECHANICS & TECHNICAL PHYSICS
FTD-TT-63-87/1&2 N64-23684 16-11

DIRECT GENERATION OF HIGH ENERGY PULSES BY ELECTROMECHANICAL POWER CONVERSION
PIBMRI-1129-63 N64-23954 16-09

GENERAL MECHANICS, MECHANICS OF DEFORMABLE MEDIA, AND FLUID MECHANICS N64-24144 16-11

STATISTICAL MECHANICS OF IRREVERSIBLE THERMODYNAMIC REACTIONS USING GIBBS EQUATIONS
RSIC-187 N64-24348 17-13

SPACE ENVIRONMENT EFFECTS ON ORGANIC MATERIALS, MECHANICAL DEVICES, AND ELECTRONIC EQUIPMENT
RSIC-151I N64-25218 17-29

MATHEMATICS OF MOTION STABILITY IN CLASSICAL AND CELESTIAL MECHANICS
FTD-MT-64-175 N64-25442 17-23

ELECTROMECHANICS RESEARCH
FTD-TT-62-1834/1&264 N64-25448 17-09

SHIP STABILIZING SYSTEMS, PURE FLUID SYSTEMS, AND PROJECTED DEVELOPMENTS IN MECHANICS, AERODYNAMICS, THERMODYNAMICS, AND HYDRODYNAMICS
DME/NAE-1964 /I/ N64-26284 18-06

SYSTEMS ANALYSIS, MECHANICS, GUIDANCE AND CONTROL, PROPULSION, AND COMMUNICATION SYSTEM STUDIES
NASA-CR-58131 N64-26369 18-29

DEVELOPMENT OF IRREVERSIBLE EVOLUTION EQUATIONS IN STATISTICAL MECHANICS FROM REVERSIBLE EQUATIONS OF MOTION
WIS-TCI-38 N64-26531 18-20

STATISTICAL MECHANICS OF ELECTROMAGNETIC FIELD N64-26999 19-24

FUNCTIONALS FOR STUDY OF STATISTICAL MECHANICS OF MAGNETIC FIELDS N64-27000 19-23

CONFERENCE ON MECHANICS OF GASES, LIQUIDS, AND SOLIDS
FTD-TT-63-471/1&2 N64-27086 19-23

NEW PERTURBATION METHOD FOR SOLVING PROBLEMS IN CLASSICAL AND QUANTUM MECHANICS
AD-601184 N64-27703 19-20

EFFECTS OF THERMOMECHANICAL TREATMENTS ON MECHANICAL PROPERTIES OF HIGH STRENGTH STEELS
AD-603346 N64-27847 19-18

DESIGN AND CONSTRUCTION OF SCALE MODELS TO YIELD ACCURATE RESULTS THROUGH PHOTOMECHANICS N64-29268 21-33

MECHANICS AND TECHNOLOGY - GYROSCOPIC SYSTEMS AND METEOR SHIELDING
FTD-TT-64-413/1&264 N64-29292 21-23

RESEARCH PROJECTS IN MECHANICS, HYDRODYNAMICS, AERODYNAMICS AND THERMODYNAMICS
DME/NAE 1963/4/ N64-30369 22-17

MECHANICS OF SPACE FLIGHT WITH LOW THRUST PROPULSION N64-30426 22-23

DESIGN STUDY FOR ORBITAL OPERATIONS SIMULATION FACILITY
REPT.-64SD472 N64-30899 22-10

CONFERENCE REPORTS ON USING RADIOACTIVE ISOTOPES AND NUCLEAR RADIATION IN MECHANICS, GEOLOGY AND CHEMISTRY
AEC-TR-6390 N64-31024 22-23

PROPERTIES OF ELECTROMECHANICAL TRANSMISSION-TYPE CONVERTERS BY LINEAR EQUATIONS AND EQUIVALENT CIRCUITS N64-31366 23-09

MATHEMATICS, MECHANICS, AND ASTRONOMY
FTD-MT-64-63 N64-31742 23-23

RANDOM VIBRATION IN AEROSTRUCTURES AND RELATION TO MECHANICAL FAILURE
AD-447952 N64-32361 23-33

STATISTICAL MECHANICS AND PHASE TRANSITIONS OF HEISENBERG ANTIFERROMAGNET
TR-15 N64-32850 24-25

THEOREM ON DISTRIBUTION OF INTERNAL FORCES OF MAXWELL GAS BASED ON GAUSS-HERTZ PRINCIPLES OF MECHANICS
MD-63-8 N64-33313 24-23

EFFECTS OF EFFICIENCY SENSITIVE PARAMETERS ON LUNAR FLIGHT MECHANICS
REPT.-00.237 N64-33426 24-29

ELEMENTARY MECHANICS OF FLEXIBLE MEMBRANES OF EXPANDABLE INFLATABLE STRUCTURES
SM-45750 N64-33733 24-33

EXTENSION OF METHODS OF CLASSICAL CONTINUUM MECHANICS - STRUCTURAL MATERIALS
C11-94 N64-33883 24-23

MECHANISM
S SERVOMECHANISM

MECHANIZATION
MECHANIZATION PROCEDURE FOR ABSTRACT SYNTHESIS IN DIGITAL COMMUNICATION SYSTEM
JPRS-17879 N64-10726 02-20

MECHANIZED AIRBORNE APPROACH AND LANDING SYSTEM FEASIBILITY STUDY
NASA-CR-52999 N64-11734 03-22

MECHANIZATION OF MENTAL PROCESSES AND DESIGN OF TALKING AUTOMATON - CYBERNETICS
RADC-TDR-63-528 N64-15726 07-16

MECHANIZATION AND AUTOMATION OF MACHINE TOOL CONTROL
FTD-TT-62-1246/1&2 N64-23403 16-20

DESIGN MECHANIZATION OF PROBLEM-ORIENTED SYMBOL PROCESSOR - LOGIC, DIAGNOSTIC PROGRAMS, READ-ONLY MEMORY LAYOUT PROGRAM, AND ALGOL ARITHMETIC COMPILER
AFCRL-64-454/2/ N64-26897 18-20

MECHANIZATION AND AUTOMATION IN FERROUS METALLURGY
JPRS-26280 N64-28399 20-18

MECHANIZATION AND CONTROL OF NUCLEAR REACTOR
NASA-CR-52943 N64-33780 24-23

MEDICAL ELECTRONICS
TELEMETRY PROBLEMS IN MEDICAL AND BIOLOGICAL RESEARCH
JPRS-17672 N64-10629 01-16

AUTOMATIC ELECTRONIC INSTRUMENTS FOR MEDICAL AND PHYSIOLOGICAL MEASUREMENTS N64-11042 02-15

BALLISTOCARDIOGRAPHY - HISTORY, PHYSICAL BASIS, TECHNIQUE, ANALYSIS, CHANGES DURING ILLNESS, AND APPLICATION TO OTHER BRANCHES OF MEDICINE
JPRS-18967 N64-11415 02-16

MEDICAL RADIO TELEMETRY AND ELECTRONICS
JPRS-22551 N64-12356 03-16

DOSIMETRIC METHODS IN MICROWAVE AND DECIMETER-WAVE THERAPY - HOUSINGS FOR ELECTRONIC EQUIPMENT
JPRS-23167 N64-14920 06-10

MATHEMATICS OF BIONICS, COMPUTER HARDWARE IN MEDICAL ELECTRONICS, AND IN BIOENGINEERING N64-18827 11-16

GRIDS FOR REDUCING SCATTERED X-RAYS IN MEDICAL RADIOGRAPHY N64-23275 16-16

PHONOCARDIOGRAPH FOR RECORDING HEART SOUND
FTD-TT-63-1193/1&2&4 N64-25458 17-16

ULTRASONIC & ELECTRONIC DEVICES AND APPARATUS FOR MEDICAL RESEARCH
JPRS-25533 N64-26259 18-15

ELECTRONIC EQUIPMENT FOR MEDICAL & BIOLOGICAL RESEARCH
FTD-TT-63-1188 N64-28175 20-15

ELECTRONIC EQUIPMENT FOR MEDICAL RESEARCH AND TREATMENT
JPRS-25587 N64-30391 22-16

MEDICINE /GEN/
SA AEROSPACE MEDICINE
SA CLINICAL MEDICINE
SA DENTISTRY
SA DERMATOLOGY
SA HISTOLOGY
SA RADIATION MEDICINE
LITERATURE REVIEW OF TELEVISION MICROSCOPY IN BIOLOGY AND MEDICINE
JPRS-18229 N64-10501 01-16

MEDICAL JOURNAL - ACADEMY OF MEDICAL SCIENCES USSR
JPRS-21526 N64-10513 01-16

MEDICAL CONFERENCES ON MINERAL WATER USE, CLIMATOPATHOLOGY, CORONARY SURGERY, HIGH-ALTITUDE PHYSIOLOGY, AND EPIDEMIOLOGY
JPRS-21836 N64-10515 01-16

MEANS & METHODS OF USING ELECTRONICS IN SCIENTIFIC & PRACTICAL MEDICINE
JPRS-17497 N64-10682 02-16

SOVIET MEDICINE - VASCULAR SURGERY, METABOLISM, HYPERTENSION, AND THERAPEUTIC UNDERWEAR
JPRS-17498 N64-10683 02-16

MEDICINE AND PHYSIOLOGY - TRACER STUDIES OF MUSCLE FATIGUE AND MULTICHANNEL POTENTIOMETERS FOR PHYSIOLOGICAL MEASUREMENTS
JPRS-18339 N64-11041 02-01

PROBLEMS OF MEDICAL SCIENCE RELATED TO PHYSICAL SCIENCE AND TECHNOLOGY, ESPECIALLY CYBERNETICS
JPRS-19043 N64-11124 02-16

CONTRIBUTIONS OF CYBERNETICS TO MEDICAL SCIENCE
JPRS-22189 N64-11417 02-16

SPACE PROGRAM, HUMAN ENGINEERING, AND MEDICAL RESEARCH N64-11516 03-16

EXPANDING TECHNOLOGY AND IMPLICATIONS OF SOCIO-ECONOMIC PROBLEMS OF METROPOLITAN AREAS N64-11518 03-01

CYBERNETICS IN MEDICINE & PHYSIOLOGY
JPRS-22377 N64-11918 03-16

BIOMEDICAL COMMUNICATIONS DESCRIPTION OF COSMONAUTS GROUP FLIGHT IN VOSTOK III AND IV SPACECRAFT
FTD-TT-62-1578/1&2 N64-12055 03-32

BIOMEDICAL REQUIREMENTS & DESIGN CRITERIA FOR MAN-MACHINE SYSTEM CONFIGURATION FOR USE IN PROPOSED

AEROSPACE ENVIRONMENTAL CHAMBER
AEDC-TDR-63-256 N64-12226 03-16

APPLICATION OF CYBERNETICS TO BIOLOGY AND MEDICINE
N64-12509 04-16

ABSTRACTS OF ATOMIC ENERGY COMMISSION-SPONSORED BIOLOGICAL AND MEDICAL RESEARCH
TID-4201 N64-12811 04-16

ROLE OF CYBERNETICS IN MEDICAL SCIENCE & PRACTICE
JPRS-22647 N64-13085 04-16

MACHINE RECORD CARDS FOR RECORDING MEDICAL HISTORY - DEVELOPMENT & USE IN ASTRONAUT SELECTION
N64-13466 05-16

RELATION OF CYBERNETICS TO BIOLOGY, MEDICINE, ECONOMICS, AND ENGINEERING
JPRS-22931 N64-14142 05-16

PROSPECTS FOR USE OF LASERS IN BIOLOGY & MEDICINE
JPRS-22994 N64-14149 05-16

ROLE OF CYBERNETICS AND PLASTICS IN MEDICINE
FTD-TT-63-732/1&4 N64-14333 06-16

ROLE OF CYBERNETICS IN MEDICINE - COMPUTERS FOR DIAGNOSIS OF DISEASES AND ANALYSIS OF PATIENT CONDITION
N64-14334 06-16

USE OF PLASTIC MATERIALS IN MEDICINE
N64-14335 06-16

FUNCTION OF ADRENAL GLAND AND HEMATOPOIETIC SYSTEM UNDER TEMPORARY AND PROLONGED HYPOXIA DURING MOUNTAIN CLIMBING - MEDICAL STUDY
N64-15202 07-16

PATHOLOGICAL STUDIES ON STEROID SEX HORMONES, RADIATION EFFECT ON METABOLISM, LEUKEMIA, PARATHYROID, AND HYPOTHYROIDISM
ARCH-20 N64-15398 07-16

CYBERNETICS IN BIOLOGY, MEDICINE, AND SPACE FLIGHT
JPRS-23749 N64-17244 09-16

BIOLOGY, MEDICINE, SAFETY, MATERIALS, AND METEOROLOGY - BIBLIOGRAPHY
HW-80524 N64-20669 13-01

EMERGENCY MEDICAL SERVICE IN SHELTERS IN POST-NUCLEAR ATTACK
OU-107 N64-20811 14-16

MEDICINE IN USSR - GENETICS
JPRS-24398 N64-21850 15-16

MEDICAL AND BIOLOGICAL RESEARCH IN USSR
JPRS-24638 N64-21851 15-16

SPACE BIOLOGY AND MEDICINE
JPRS-24943 N64-21866 15-16

SPACE BIOLOGY AND MEDICINE - FIRST EXPERIMENTS
N64-21867 15-16

SPACE BIOLOGY AND MEDICINE N64-21868 15-16

SPACE BIOLOGY AND MEDICINE - ASTRONAUT TRAINING
N64-21869 15-16

SPACE BIOLOGY AND MEDICINE - INTERSTELLAR TRAVEL
N64-21870 15-29

CHIMPANZEE MEDICAL RECORDS
ARL-TDR-64-5 N64-22280 15-16

MEDICAL RESEARCH ON HUMAN BODY
JPRS-25241 N64-22744 16-16

MEDICAL AND BIOLOGICAL RESEARCH
UCRL-11184 N64-22851 16-16

MEDICAL RESEARCH - NATURAL POLYMERS, HEMATOLOGY, SURGERY, HYGIENE, ANTIBIOTICS, NUTRITION, AND PHARMACOLOGY
JPRS-25208 N64-23063 16-16

GEIGER COUNTER FOR MEDICINAL AND INDUSTRIAL APPLICATIONS N64-23149 16-09

MEDICAL AND BIOLOGICAL PROBLEMS OF SPACE FLIGHT AND EFFECT OF WEIGHTLESSNESS ON HUMANS
N64-23639 16-14

BIOLOGY AND MEDICINE
FTD-TT-63-1013/1&2 N64-23694 16-16

TRENDS OF SPACE BIOLOGY IN CONQUEST OF SPACE
N64-23735 16-16

LONG-RANGE TECHNOLOGICAL FORECASTING IN BIOLOGICAL AND MEDICAL SCIENCES
AD-436723 N64-24070 16-16

MEDICAL PROBLEMS OF CREW HEALTH IN CLOSED ECOLOGICAL SYSTEM N64-24629 17-16

POSTFLIGHT MEDICAL EXAMINATIONS OF U.S.S.R. ASTRONAUTS N64-25168 17-14

MEDICINE IN UKRAINIAN S.S.R., ACCELERATION AND AEROSPACE MEDICINE, AND CHEMOTHERAPY
JPRS-26116 N64-28432 20-16

SPACE BIOLOGY AND MEDICINE - PROBLEMS ENCOUNTERED IN SPACEFLIGHT
JPRS-26231 N64-28859 20-16

AUTOMATIC DATA ACQUISITION SYSTEM TO MINIMIZE DATA REDUCTION OF BIOMEDICAL TESTS
AMRL-TDR-64-50 N64-29940 21-15

MEDICAL SAFETY MEASURES DURING MANNED CENTRIFUGE EXPERIMENTS
NADC-ML-6410 N64-30169 21-16

BIOASTRONAUTICAL CONTRIBUTIONS TO MEDICINE
N64-30343 22-16

MEDICAL ASPECTS OF MANNED SPACE FLIGHT
N64-30344 22-16

INFECTION PREVENTION OF WOUNDS AND BURNS IN MASS CASUALTY SITUATIONS N64-30754 22-16

NUMERICAL INVERSION OF MELLIN TRANSFORM - COMPUTER PROGRAMMING FOR SOLVING COMPLEX EQUATIONS ARISING IN BIOLOGY AND MEDICINE
RM-4179-NIH N64-30796 22-20

SUMMARY OF PAPERS PRESENTED AT CONFERENCE ON BIOLOGICAL AND MEDICAL RESEARCH RELATED TO CHEMISTRY
JPRS-26845 N64-32164 23-16

MEDICAL CASE HISTORIES ON EXISTENCE IN ANTARCTIC REGION
FTD-TT-64-291/1 N64-32236 23-16

COMPUTER APPLICATIONS IN MEDICINE AND BIOLOGICAL SCIENCES - BIBLIOGRAPHY
SP-1025/001/00 N64-32324 23-16

BLOOD POLAROGRAPHY FOR USE IN BIOLOGICAL AND MEDICAL STUDIES
JPRS-27237 N64-33675 24-16

NEUTRON CAPTURE THERAPY - MEDICAL APPLICATION
ANL-6910 N64-33962 24-23

MEDIUM
SA ELASTIC MEDIUM
PROBLEMS OF LOCALLY ISOTROPIC TURBULENT MEDIUM - STRUCTURAL & SPECTRAL FUNCTIONS AND ENERGY DISSIPATION FIELD
NRC-416 N64-12247 03-11

TIME DEPENDENT NONLINEAR FORMULATION OF SHOCK PROPAGATION IN AN ORGINALLY ISOTROPIC MEDIUM
NOLTR-63-219 N64-15520 07-23

FLUTTER ANALYSIS OF FLAT ISOTROPIC PANELS
N64-19368 12-33

MACROSCOPIC EQUATIONS FOR SMALL SIGNAL ELECTROMAGNETIC WAVE PROPAGATION IN ISOTROPIC

PLASMA
REPT.-1565-2 N64-22902 16-24

VOLUMETRIC CHEMICAL ENERGY AS MECHANISM FOR ENHANCING ISOTROPIC TURBULENCE OF COMPRESSIBLE FLUID MEDIUM
TR63-217D N64-23401 16-11

PARAMETERS OF MAGNETOELECTRIC GENERATORS WITH STAR TYPE ROTORS N64-23570 16-09

EFFECTS OF ALUMINUM FILLING OF ROTORS ON MAGNETOELECTRIC GENERATOR EFFICIENCY N64-23571 16-09

NONLINEAR INTERACTION OF ELECTROMAGNETIC FIELD WITH ISOTROPIC, HOMOGENEOUS MEDIUM
RM-4093-PR N64-24170 16-23

LINEAR SLIDE RULE FOR COMPUTING ISOTROPIC PLASMA COMPONENTS FROM PLASMA AND ELECTRON COLLISION FREQUENCIES
REPT.-1565-10 N64-27772 19-15

HYDRODYNAMICS OF EXPLOSIONS - SHOCK WAVE PROPAGATION, EXPLOSION IN UNBOUNDED MEDIUM, BOUNDARY PROBLEMS, & PROBLEM OF EXTERNAL FORCES
FTD-TT-63-381/162, N64-29321 21-11

MEISSNER EFFECT
MEASURING EXPERIMENTS ON SUPERCONDUCTORS USING MEISSNER EFFECT
ONERA-TP-112 N64-23499 16-24

MELAMINE
TOXICITY OF ISOALCOHOLS, HIGHER ALCOHOLS, AND MELAMINE-FORMALDEHYDE RESINS
FTD-TT-64-97/164 N64-25462 17-16

MELANIN
EYE MELANIN FREE-RADICAL KINETICS & MECHANISM IN RELATION TO ADSORPTION OF OXYGEN BY SEMICONDUCTORS
NADC-MA-6320 N64-12597 04-09

MELTING
SA ARC MELTING
EFFECT OF ELECTROSLAG REMELTING ON PLASTICITY OF IRON-NICKEL-CHROMIUM BASE ALLOYS
JPRS-21760 N64-10123 01-18

SLAG COMPOSITION EFFECT ON MELTING OF ELECTRODE OF LARGE CROSS SECTION IN ELECTROSLAG PROCESS
JPRS-21983 N64-10387 01-17

CONDUCTIVITY AND MELTING CONDITIONS OF SOME ELECTROCONDUCTIVE GLASSES N64-10862 02-19

ELECTROSLAG MELTING OF TITANIUM ALLOY INGOTS N64-13419 05-17

DELAYED FAILURE IN PRESENCE OF LOW MELTING LIQUID METALS
ARF-8183-13 N64-13897 05-18

PARAMETER AND GRAPHIC COMPARISON OF TWO MELTING EQUATIONS FOR GASES AND METALS - HYDROGEN, OXYGEN, SODIUM, & POTASSIUM
NASA-CR-55331 N64-14291 06-23

MELTING, CASTING, AND MECHANICAL PROPERTIES OF URANIUM ALLOYED WITH STEELS
BM-RI-6403 N64-17496 09-18

HEAT TRANSFER IN ICE DURING MELTING
JPRS-24019 N64-17971 10-13

MELT REFINING PROCESS FOR PURIFYING EXPERIMENTAL BREEDER REACTOR-2 /EBR-2/ FUEL
ANL-6725 N64-18201 10-23

MELTING OF LARGE DIAMETER ELECTRODES DURING ELECTROSLAG PROCESS
JPRS-24369 N64-18981 11-17

RARE EARTH ALLOY, HAFNIUM CARBIDE, THORIUM ALLOY, URANIUM-CARBON-OXYGEN SYSTEM, TUNGSTEN-RHENIUM TUBING, & COLD-MOLD MELTING RESEARCH
USBM-U-1109 N64-19030 11-18

HEAT TRANSFER ON MELTING SURFACE OF BODY IN SUPERSONIC FLOW - EFFECT OF FEEDING MOLTEN METAL THROUGH POROUS WALL
FTD-TT-62-1328/1&2&4 N64-21225 14-13

INFLUENCE OF CONDITION OF ELECTROSLAG PROCESS ON MELTING SPEED OF HEAVY-GAUGE ELECTRODES N64-21863 15-17

HIGH PRESSURE MELTING OF METALS
AD-600902 N64-25371 17-23

PREPARATION OF MOLYBDENUM SINGLE CRYSTALS BY ELECTRON-BEAM FLOATING-ZONE MELTING
FTD-TT-64-350/1&2&3&4 N64-26121 18-17

AUTOMATIC COMPUTER CONTROL SYSTEM FOR STOPPING A MELT AT GIVEN CARBON CONTENT IN BESSEMER CONVERSION OF FERROUS METALS TO STEEL
JPRS-25762 N64-26748 18-17

MELTING OF MIXED POLYETHYLENES
TIL/T.5331 N64-28116 20-07

PREPARATION AND PROPERTIES OF HIGH-MELTING CARBIDE ALLOYS
NASA-TT-F-9064 N64-31337 22-18

MELTING POINT
FREEZING AND MELTING POINTS OF BINARY IRON BASE ALLOYS
ARL-63-11 N64-18702 11-18

MELTING POINT TABLES FOR METAL OXIDES N64-21203 14-19

AUTOMATIC DETERMINATION OF MELTING POINT OF CRYSTALLINE SOLIDS BASED ON BIREFRINGENCE CHANGE AS ANISOTROPIC FORM CHANGES TO ISOTROPIC MELT
GE/EE/63-17 N64-32174 23-07

MEMBRANE
SA DIAPHRAGM
PERFORMANCE CHARACTERISTICS OF UNCOATED AND PLATINIZED IONIC MEMBRANE FUEL CELLS
NASA-CR-55694 N64-15871 07-06

INORGANIC ZEOLITE MEMBRANES USED IN HYDROGEN-OXYGEN FUEL CELL
NASA-CR-55746 N64-15875 07-06

MEMBRANE AND ELECTRODE TESTING AND MATERIAL ANALYSIS FOR OSMOTIC STILL AND DUAL MEMBRANE FUEL CELL
NASA-CR-55693 N64-16279 08-06

WATER PURIFICATION BY OSMOSIS THROUGH MEMBRANES
NASA-CR-55697 N64-16280 08-06

WATER PURIFICATION BY OSMOSIS THROUGH MEMBRANES
NASA-CR-55698 N64-16281 08-06

MEMBRANE, ELECTRODE, AND FUEL CELL TESTING IN DEVELOPMENT OF OSMOTIC STILL AND IMPROVEMENT OF DUAL MEMBRANE FUEL CELL
NASA-CR-55695 N64-16282 08-06

DESIGN SPECIFICATIONS, TEST RIG, AND MEMBRANE PERFORMANCE FOR OSMOTIC STILL - CELL TESTING AND ASSEMBLY FOR DUAL MEMBRANE FUEL CELL
NASA-CR-55696 N64-16319 08-06

WATER PURIFICATION BY OSMOSIS THROUGH MEMBRANES
NASA-CR-55701 N64-16320 08-06

OSMOTIC STILL - IONIC DUAL MEMBRANE FUEL CELL DEVELOPMENT
NASA-CR-55735 N64-16336 08-06

MUSCLE-LIKE CONTRACTIVE DEVICE MADE OF TWO PHASE MEMBRANES - MATHEMATICAL MODEL, CONTROL METHODS
RTD-TDR-63-4181 N64-17118 09-06

BIOLOGY - DISCUSSION ON CELL-CELL INTERACTIONS, MEMBRANE STRUCTURE, ENZYMATIC REACTIONS, AND PHYSICAL CHEMISTRY OF INTERFACES
NASA-CR-53290 N64-17601 09-16

NUCLEAR MEMBRANE STRUCTURE OF NERVE CELL
JPRS-24607 N64-20233 13-16

STATIC AND DYNAMIC AEROELASTIC INSTABILITIES OF THIN PANELS AND MEMBRANES - MEMBRANE FLUTTER AND PANEL DIVERGENCE
AGARD-474 N64-21845 15-33

ROTATIONALLY SYMMETRIC STRESSES AND DEFORMATIONS IN ELASTIC MEMBRANE BY SPHERICAL INDENTER
SUDAER-182 N64-22504 15-33

EXTRACTION OF OXYGEN FROM SEA WATER BY DIFFUSION THROUGH THIN PLASTIC MEMBRANES
AD-437359 N64-24807 17-16

TRANSVERSE VIBRATIONS OF SPINNING ANNULAR ELASTIC MEMBRANE WITH FREE EDGES
SUDAER-184 N64-26809 18-33

LINEARIZED LARGE DEFORMATION ANALYSIS FOR INITIALLY CURVED, ROTATIONALLY SYMMETRIC MEMBRANES
RAC-2236 N64-28118 20-34

WRINKLING OF STRETCHED MEMBRANE SUBJECTED TO TORQUE LOADING THROUGH ATTACHED HUB
NASA-TN-D-2456 N64-28336 20-33

VIBRATING MEMBRANE ELECTROMETER WITH HIGH CONVERSION GAIN
NASA-RP-289 N64-28352 20-15

CALIBRATION OF DIATRON MASS SPECTROMETER BY GASEOUS DIFFUSION THROUGH SINGLE POLYMER MEMBRANE
NASA-TN-X-51927 N64-29519 21-15

PASSIVE ION FLUX THROUGH AXON MEMBRANES
N64-29538 21-16

FREE VIBRATIONS OF PRESTRESSED TOROIDAL MEMBRANE
NASA-CR-58532 N64-29556 21-33

FUEL CELL MEMBRANE ELECTRODE TESTING FOR ACTIVITY AS ANODES FOR OXIDATION OF HYDROGEN, PROPANE, HYDRAZINE, METHANOL, AND FOR REDUCTION OF OXYGEN
MRB-4020T1 N64-33316 24-06

ELEMENTARY MECHANICS OF FLEXIBLE MEMBRANES OF EXPANDABLE INFLATABLE STRUCTURES
SM-45750 N64-33733 24-33

MEMBRANE THEORY
MEMBRANE THEORY OF ANISOTROPIC SHELLS
N64-22804 16-23

TOROIDAL SHELLS UNDER INTERNAL PRESSURE IN TRANSITION RANGE WHERE BOTH LINEAR BENDING AND NONLINEAR MEMBRANE THEORY APPLY
TR-19 N64-28563 20-33

MEMORY
SA LEARNING
OF TRAINING
IMPLICATIONS OF SHORT-TERM MEMORY FOR GENERAL THEORY OF MEMORY
REPT.-2900-410-R N64-10553 01-14

MEMORY AND CONTROL FUNCTIONS IN TEACHING AUTOMATIC LEARNING SYSTEMS N64-11040 02-16

CONTINUOUS EVAPORATED FILM CRYOELECTRIC MEMORY DEVICES
RADC-TDR-63-351 N64-12047 03-09

MAXIMUM-LIKELIHOOD DETECTION IN BINARY CHANNEL WITH MEMORY
AFCRL-63-313 N64-12610 04-09

FERRITE MATERIAL FOR ELASTIC SWITCHING IN ASSOCIATIVE MEMORY SYSTEMS
RADC-TDR-63-483 N64-17151 09-20

EQUATIONS FOR DEFORMATION OF MATERIALS WITH PLASTIC MEMORY WITH SOME SYMMETRY
C11-89 N64-18619 11-20

MAGNETIC DRUM MEMORY AS LOW COST STORAGE DEVICE FOR COMPUTER AND SWITCHING CONTROL SYSTEMS
N64-19503 12-09

SHORT TERM MEMORY - NONEQUIVALENCE OF QUERY AND MESSAGE ITEMS
ESD-TDR-64-254 N64-19670 12-14

MECHANICAL CONSTITUTIVE EQUATIONS FOR MATERIALS WITH PLASTIC MEMORY
REPT. 562/10//91 N64-21294 14-33

MAGNETIC MEMORY DEVICES USING RECTANGULAR HYSTERESIS LOOP CORES N64-23535 16-20

MEMORY EFFECT OF POLYURETHANE FOR SPACE EXPANDABLE STRUCTURE APPLICATION N64-23733 16-19

MAGNETIC MEMORY UNIT USING DIODE-DIGIT ACCESS AND FERRITE CORES N64-24544 17-09

FERRITE CORES FOR MEMORY DEVICES
JPRS-25476 N64-25480 17-20

MAGNETIC DRUM RECORDING AND READ CHANNEL DENSITY EVALUATION
FTD-TT-64-235/1&4 N64-26721 18-08

NOISE INTENSITY EFFECT ON PERFORMANCE OF LINEAR AND NONLINEAR NO-MEMORY FILTERS
NASA-CR-56838 N64-29198 21-08

REHEARSAL EFFECTS ON HUMAN PERFORMANCE - SHORT TERM RECALL OF BRIEFLY EXPOSED DISPLAYS
NAVTRADEVCEN-1303-1 N64-29814 21-14

INFORMATION INPUT RATE EFFECT ON SHORT TERM HUMAN MEMORY
NAVTRADEVCEN-1303-2 N64-29871 21-14

MEMORY STORAGE UNIT
SA DATA STORAGE
OPERATIONAL MEMORY DEVICE FOR DIGITAL LOGICAL COMPUTER N64-11035 02-20

INSTRUCTION MANUAL FOR MAGNETIC CORE MEMORY SYSTEM TCM-32 4096/25 - COVER SYSTEM DESCRIPTION, LAYOUTS, INSTALLATION, OPERATION, & MAINTENANCE
REPT.-71-170 N64-19260 11-09

THERMOELECTRIC REFRIGERATOR FOR MICROPAC COMPUTER MEMORY STORAGE UNIT N64-19381 12-06

MAGNETIC DRUM MEMORY AS LOW COST STORAGE DEVICE FOR COMPUTER AND SWITCHING CONTROL SYSTEMS
N64-19503 12-09

TRANSISTOR FLIP-FLOP AND RING COUNTER CIRCUITS WITH NONVOLATILE MEMORY
TR-1198 N64-21104 14-09

RECIRCULATOR WITH QUANTIZATION USED AS MEMORY ELEMENT AND GENERATOR OF COMPLEX PERIODIC SIGNALS
FTD-TT-63-981/1&2 N64-21962 15-08

MAGNETIC MEMORY DEVICES USING RECTANGULAR HYSTERESIS LOOP CORES N64-23535 16-20

TELEVISION UNIT WITH MEMORY TUBE FOR REPRODUCING PRINTED MATERIAL N64-23549 16-15

COMBINING FERRITE OPERATIVE AND PERMANENT MEMORY STORAGE UNITS N64-23803 16-20

SUSTAINED BOMBARDMENT INDUCED CONDUCTIVITY STORAGE TARGET FOR MEMORY TUBES
REPT.-1 N64-24096 16-09

HIGH SPEED MEMORY UNITS FOR DIGITAL COMPUTERS
JPRS-25360 N64-25051 18-20

DESIGN OF TRAPPED-FLUX SUPERCONDUCTIVE MEMORIES FOR ELECTRONIC COMPUTERS
JPRS-25634 N64-27320 19-09

SUPERCONDUCTIVE MEMORY ELEMENTS FOR COMPUTER TECHNOLOGY
JPRS-25648 N64-27321 19-09

CONSTRUCTION OF STORAGE ADDERS ACTING IN SEQUENCE FROM FERRITE CORES N64-29137 21-15

MEMORY STORAGE UNIT WITH TIME COMPRESSION OF SIGNAL AND RECIRCULATOR USING ULTRASONIC DELAY LINE
N64-29458 21-09

MEMORY CIRCUITS FOR REDUCTION OF PRINTED INFORMATION BY DIGITAL COMPUTERS
N64-29740 21-20

NOMOGRAPHIC ELECTRONIC COMPUTATION - APPLICATION TO MEMORY STORAGE AND DATA RETRIEVAL DEVICES
RADC-TDR-62-274, VOL. II N64-30940 22-09

MULTICHANNEL SIGNAL ANALYZERS - MEMORY SYSTEMS, ANALOG-TO-DIGITAL CONVERTERS, AND READOUT DEVICES
ANL-6881 N64-33414 24-15

FERROACOUSTIC INFORMATION STORAGE FOR DATA PROCESSING SYSTEMS - IMPROVED TECHNIQUES AND MATERIALS
NASA-CR-59323 N64-33771 24-25

MENTAL PERFORMANCE
SA PSYCHOMOTOR PERFORMANCE
PREDICTION OF ADAPTABILITY OF BASIC AIRMEN REFERRED FOR MENTAL HYGIENE CLINIC EVALUATION
AD-436571 N64-18906 11-14

MERCAPTAN
FUNCTIONAL SIGNIFICANCE OF SULFHYDRYL GROUPS IN CELL MEMBRANE
UR-633 N64-10666 01-16

COMPARATIVE STUDY BETWEEN 2-MERCAPTOETHYLAMINE HYDROCHLORIDE AND P-AMINOPROPIOPHENONE FOR X-RAY AND HIGH ENERGY PROTON IRRADIATION SHIELDING
N64-13510 04-10

DISTRIBUTION AND EXCRETION OF BETA-MERCAPTO-PROPYLAMINE, TAGGED WITH SULFUR-35, FROM BODIES OF MICE
N64-31348 23-16

MERCURY /METAL/
ELECTROLYTE MATRIX COMBINATIONS FOR MERCURY POTASSIUM FUEL CELL
NASA-CR-52141 N64-10085 01-06

VELOCITY DISTRIBUTION OF FLOWING MERCURY IN TRANSVERSE MAGNETIC FIELDS
FTD-TT-62-1827/1&2 N64-11160 02-11

MULTIPLE COHERENT SCATTERING OF OPTICAL RESONANCE RADIATION APPLIED TO MERCURY
E-T-F-63-2 N64-12860 04-23

MERCURY ABSORPTION CELL ANALYSIS - MIROS PROGRAM
NASA-CR-51425 N64-13011 04-25

RADIATION FIELD EFFECT ON EXCITED STATES OF SINGLE AND DOUBLE ATOMS OF MERCURY
E-T-F-63-1 N64-13862 05-29

MULTIPLE SCATTERING OF PHOTONS BY MERCURY ATOMS
E-T-F-63-3, PT. 3 N64-13863 05-29

BEHAVIOR OF LIQUIDS IN PERIODS OF WEIGHTLESSNESS DURING FREE-FALL TESTS, USING MERCURY OR WATER IN TEFLON CONTAINER
JPRS-23259 N64-14996 06-29

ALUMINUM ALLOYS DETERIORATION IN PRESENCE OF MERCURY AND CESIUM
NASA-CR-30 N64-15968 07-18

FLOWING MERCURY ELECTRODE
AROD-2691-2 N64-17315 09-09

MERCURY POOL CATHODE AS ELECTRON SOURCE FOR HIGH POWER SWITCHING ELEMENT
RADC-TDR-64-97 N64-20031 13-09

MERCURY HEAT TRANSFER LOOP IN SOLAR POWERED ENGINE - SUNFLOWER POWER SYSTEM
NASA-CR-46 N64-20889 14-06

BINARY LIQUID METAL BOILING HEAT TRANSFER AND TWO-PHASE FLOW AND THERMOPHYSICAL PROPERTIES OF POTASSIUM AND MERCURY AMALGAM
REPT.-3549 N64-21058 14-06

MERCURY, POTASSIUM, ARGON, NEON, AND HELIUM GAS DISCHARGE STUDY AT VERY LOW PRESSURES
FTD-TT-62-1238/1&2 N64-21918 15-11

WETTING OF SURFACE OF SEMICRYSTALLINE ZINC WITH MERCURY
FTD-TT-63-384/1&2 N64-22350 15-11

SELF-DIFFUSION COEFFICIENT OF LIQUID MERCURY USING RADIOACTIVE TRACER
ARL-64-114 N64-24204 16-11

VARIATION OF ELECTRON DENSITY ALONG POSITIVE COLUMN OF LOW PRESSURE MERCURY DISCHARGE
N64-24674 17-24

ELECTRON BOMBARDMENT ION ENGINE USING MERCURY AS PROPELLANT
NASA-CR-54082 N64-25008 17-27

FABRICATION OF VERTICAL-ORIFICE TEFLON CAPILLARY OF TEFLON DROPPING-MERCURY ELECTRODE
ORNL-3654 N64-26797 18-17

POTASSIUM-MERCURY LIQUID METAL CELLS - STORAGE BATTERY
N64-27112 19-06

MERCURY PHOTOSENSITIZED OXIDATION OF TETRAFLUOROETHYLENE
SSD-TDR-64-106 N64-27470 19-07

OPERATING CHARACTERISTICS OF MERCURY CONDENSERS FOR SPACE APPLICATION - SYSTEM FOR NUCLEAR AUXILIARY POWER
NAA-SR-9801 N64-28054 20-06

MEASURING MODES WITHIN WAVEGUIDES EMPLOYING SEMI-INFINITE SLAB OF MERCURY
RADC-TDR-64-248 N64-29818 21-23

SPECTRAL ENERGY DISTRIBUTION OF SPUTTERED MERCURY ATOMS EMITTED FROM HOT CATHODES
FTD-TT-64-542/1&2&4 N64-30459 22-23

CALIBRATION OF MERCURY STRAIN GAUGES FOR MEASUREMENT OF PHYSIOLOGICAL CHANGES IN BODY PARTS
AAL-TDR-64-7 N64-31937 23-15

ANNOTATED BIBLIOGRAPHY ON TECHNOLOGY OF LIQUID METALS - MERCURY, POTASSIUM, SODIUM, AND SODIUM-POTASSIUM ALLOY
NASA-CR-59028 N64-33194 24-18

INCLUSION COMPLEXES FORMED BY SULFUR, PHOSPHORUS AND MERCURY IN ZEOLITES - SORPTION AND ADSORPTION
AD-447257 N64-33981 24-07

MERCURY /PLANET/
MARS-I SPACECRAFT FOR OUTER ATMOSPHERE STUDY & RADIO LOCATION OF MARS, VENUS, & MERCURY
N64-12890 04-29

PROPULSION REQUIREMENTS FOR SOFT LANDING IN EXTRATERRESTRIAL ENVIRONMENTS - ANALYSIS OF LUNAR AND EARTH-MERCURY MISSIONS
NASA-CR-55088 N64-13375 04-29

INTERNAL STRUCTURE AND STRENGTH OF MOON, MARS, VENUS, AND MERCURY
NASA-TR-R-173 N64-17518 09-05

DIAMETERS, ELLIPTICITIES, & SPECTRAL ALBEDOS OF MERCURY, VENUS, AND MARS
NASA-CR-53507 N64-19984 12-05

DETERMINATION OF MASS OF PLANET MERCURY
N64-21135 14-05

INTERPLANETARY TRAJECTORY ANALYSIS FOR MISSIONS FROM EARTH TO MERCURY, JUPITER, AND SATURN
NASA-TM-X-53046 N64-25706 17-29

SCIENTIFIC OBJECTIVES FOR MERCURY EXPLORATION MISSION
NASA-CR-58121 N64-26599 18-05

MERCURY COMPOUND
POTENTIOMETRIC CONCENTRATION STUDY OF MERCURY, CADMIUM, LEAD, AND ZINC HALIDE CELLS

NAA-SR-881 N64-14083 05-23

ZINC-POTASSIUM HYDROXIDE-MERCURIC OXIDE RECHARGEABLE ELECTROCHEMICAL CELL FOR AEROSPACE APPLICATION
APL-TDR-64-15 N64-16094 07-06

ZINC-POTASSIUM HYDROXIDE-MERCURIC OXIDE RECHARGEABLE ELECTROCHEMICAL CELL FOR AEROSPACE APPLICATION
APL-TDR-64-15 N64-16094 07-06

EVALUATION OF MERCURY TELLURIDE-CADMIUM TELLURIDE ALLOY SYSTEM AND OTHER MATERIALS FOR USE IN INFRARED DETECTION
AD-429997 N64-18655 11-25

CHEMICAL REACTIONS OF ORGANIC BORANE AND MERCURY ANTIMONY COMPOUNDS WITH BENZENE
N64-20926 14-08

ALKALINE CELLS & BATTERIES - ZINC-ALKALINE MERCURIC OXIDE SYSTEM
AD-439454 N64-21315 14-06

TESTING OF ZINC-ALKALINE-MERCURIC OXIDE PRIMARY CELLS AND BATTERIES
REPT.-7 N64-27851 19-06

RELATIONSHIP OF YIELD STRENGTH TO ATOMIC BONDING IN TELLURIDES OF ZINC, CADMIUM, AND MERCURY
AD-418732 N64-32971 24-25

MERCURY PROJECT
MERCURY-ATLAS BOOSTER RELIABILITY
NASA-CR-52665 N64-10904 02-01

BREAKDOWN AND TOXIC PROPERTIES OF MATERIALS USED IN SPACE VEHICLES OF APOLLO, MERCURY, GEMINI, AND DYNA-SOAR PROJECTS
AMRL-TDR-63-99 N64-17327 09-19

C-BAND RADAR-BEACON TRACKING FOR MERCURY PROJECT
N64-20496 13-08

TRACKING PERFORMANCE OF MERCURY PROJECT ACQUISITION AID
IEEE-PAPER-63-58 N64-20497 13-08

PILOT PERFORMANCE DURING MERCURY SYSTEMS FAILURE
AIAA PAPER-64-222 N64-23609 16-14

CONTAMINATION ANALYSIS OF NUCLEAR SUBMARINE AND MERCURY SPACECRAFT ATMOSPHERES N64-24608 17-16

MERCURY VAPOR
BEHAVIORAL EFFECTS IN PIGEONS EXPOSED TO MERCURY VAPOR
UR-ENG-49-7 N64-19921 12-16

DETECTION OF PLASMA PROPAGATION BEYOND DISCHARGE ANODE LIMITS DURING STUDY OF LOW VOLTAGE, ARC DISCHARGE IN MERCURY VAPORS
FTD-TT-64-587/16264 N64-26735 18-24

EXPANSION AND CONDENSATION BEHAVIOR OF ALKALI METAL AND MERCURY VAPORS FLOWING THROUGH NOZZLES
NASA-TN-D-2475 N64-28234 20-13

CORROSION OF METALS IN MERCURY VAPOR AT HIGH TEMPERATURES - STAINLESS STEELS, MARTENSITIC CHROMIUM STEELS, COBALT & NICKEL ALLOYS AND REFRACTORY METALS
NASA-TM-X-54787 N64-33681 24-18

MESON
SA ETA-MESON
SA KAON
SA PION
SA VECTOR MESON
CF ELEMENTARY PARTICLE
NUCLEAR PHYSICS STUDIES USING MESON FACILITY AND LINEAR ACCELERATOR
LAMS-3025 N64-15612 07-23

LOWER BOUNDS ON LEHMANN WEIGHTS OF GREEN FUNCTIONS IN MESON THEORY
UR-875-20 N64-16561 08-23

DIFFUSION OF MESONS IN HELIUM - QUANTUM MECHANICS
FTD-TT-63-1093/1&2 N64-19756 12-23

PROPERTIES OF OMEGA MESON - DECAY MODE STUDIES
UCRL-10723 N64-21037 14-23

DIURNAL VARIATION OF NUCLEON AND MESON COMPONENTS DURING COSMIC RAY STORMS
AFCRL-64-403 N64-22301 15-12

CALCULATION OF INTEGRAL MULTIPLICITY OF MU-MESON PRODUCTION IN ATMOSPHERE FOR OBSERVATION UNDER DIFFERENT THICKNESSES OF ABSORBER
N64-25939 18-28

WEAK INTERACTIONS OF VARIOUS COMBINATIONS OF MESONS, POSITRONS, NEUTRINOS, PROTONS, AND NEUTRONS
CERN-64-26 N64-26587 18-23

RANGE-ENERGY RELATION FOR MU MESONS UP TO THE GEV RANGE
LNF-64/38 N64-32005 23-23

COSMIC RADIATION INTENSITY DATA - BIHOURLY NEUTRON AND MESON INTENSITY N64-32020 23-12

PHOTOPRODUCTION OF BARYONS & MESONS AND UNITARY SYMMETRY
UR-875-52 N64-33006 24-23

MESON-BARYON RESONANCE
RESONANCE CALCULATIONS IN BARYON-MESON TWO PARTICLE CHANNELS
UCRL-11622 N64-33430 24-23

MESON-NUCLEON INTERACTION
BIBLIOGRAPHY OF ELECTROMAGNETIC INTERACTION, MESON ATOMIC & MOLECULAR STRUCTURE, MESON-NUCLEON INTERACTION, COSMIC RAYS, AND MESON BEAMS
BNL-809/L-342/ N64-14757 06-23

SOLUTION TO MESON-NUCLEON CASCADE EQUATION UNDER SPECIAL CONDITIONS
ORNL-3570 N64-16537 08-23

WEAK MESON-NUCLEON INTERACTION THEORY AND UNITARY SYMMETRY MODEL
UR-875-19 N64-16560 08-23

MESOSPHERE
STRUCTURE & COMPOSITION OF STRATOSPHERE AND MESOSPHERE - EARTH TEMPERATURE, AVIATION EFFECT, AND INDIVIDUAL PECULIARITIES
JPRS-21978 N64-10355 01-12

ACOUSTIC HEATING OF POLAR NIGHT MESOSPHERE
NASA-TN-D-1912 N64-10398 01-12

ROCKET SOUNDING IN THE MESOSPHERE
NASA-TM-X-54618 N64-16725 08-12

DIURNAL VARIATIONS OF ATOMIC OXYGEN AND OZONE IN MESOSPHERE
WRE-TN-PAD-82 N64-19473 12-12

THERMALLY DRIVEN SYMMETRIC CIRCULATIONS OF MESOSPHERE AND UPPER STRATOSPHERE
P-2847 N64-21113 14-21

CONTRIBUTION OF AERODYNAMICALLY PRODUCED ATMOSPHERIC ACOUSTIC WAVES TO HEATING OF POLAR NIGHT MESOSPHERE
NASA-RP-181 N64-21305 14-12

METEOROLOGICAL ROCKET SOUNDINGS IN STRATOSPHERE AND MESOSPHERE
NASA-SP-49 N64-23869 16-21

STRATOSPHERE-MESOSPHERE METEOROLOGICAL ROCKET
N64-23870 16-32

ROCKET SOUNDINGS IN MESOSPHERE N64-23872 16-21

THERMAL UPPER LIMIT ON EDDY DIFFUSION IN MESOSPHERE AND LOWER THERMOSPHERE
N64-24232 16-12

STRATOSPHERE, MESOSPHERE & POLAR METEOROLOGY

AFCRL-64-197 N64-24451 17-21

ROCKET MEASUREMENTS OF AEROLOGICAL CONDITIONS IN STRATOSPHERE AND MESOSPHERE
AD-444803 N64-33301 24-21

METABOLIC WASTE
CF WASTE DISPOSAL
BIOCHEMICAL FUEL CELL FOR ELECTRICAL ENERGY PRODUCTION FROM METABOLIC FECES-URINE WASTE MIXTURE
NASA-CR-52813 N64-11299 02-06

ELECTROCHEMICAL DEGRADATION OF HUMAN WASTES - BIOASSAY METHODOLOGY
IPR-6 N64-14810 06-16

BIOCHEMICAL FUEL CELLS FOR DEGRADING HUMAN WASTES AND PRODUCING ELECTRICAL ENERGY
NASA-CR-53178 N64-17586 09-06

HUMAN WASTE COLLECTION AND STORAGE DURING SPACE FLIGHT
AMRL-TDR-64-3 N64-18041 10-16

PHYSICOCHEMICAL WASTE UTILIZATION COMPONENT FOR LONG-TERM SPACE FLIGHT LIFE SUPPORT SYSTEM
N64-23752 16-16

WASTE DISPOSAL SYSTEM FOR AEROSPACE VEHICLE
U413-64-056 N64-26883 18-16

MISCELLANEOUS WASTE EFFECT ON MESOPHILIC ACTIVATED SLUDGE CELLULOSE - METABOLIC WASTE
SAM-TDR-64-25 N64-27494 19-16

OPTIMUM LIGHT ARRANGEMENT FOR PROMOTING ALGAE GROWTH, WASTE TREATMENT UNIT DEVELOPMENT, AND MICROTERELLA ADVANCED MODEL DESCRIPTION
SERL-64-5 N64-29906 21-16

WATER AND MINERAL METABOLIC WASTE IN INSULIN EDEMA
NASA-TT-F-9112 N64-33395 24-16

METABOLISM
SA OXYGEN CONSUMPTION
SA PHOSPHORYLATION
CF ENERGY REQUIREMENT
CF PHOTOSYNTHESIS
CF PHYSIOLOGY
EFFECTS OF IRRADIATION AND ANTIRADIATION DRUGS ON METABOLISM
JPRS-21472 N64-10596 01-16

SOVIET MEDICINE - VASCULAR SURGERY, METABOLISM, HYPERTENSION, AND THERAPEUTIC UNDERWEAR
JPRS-17498 N64-10683 02-16

RESISTANCE OF INSECT METABOLISM AT ULTRALOW TEMPERATURE
JPRS-18218 N64-10752 02-16

BLOOD GLYCOGEN METABOLISM IN MAMMALS AFTER IONIZING RADIATION
JPRS-18479 N64-10769 02-16

VIBRATION EFFECT ON METABOLIC SYSTEMS AND THERMAL DEHYDRATION OF SALTS
JPRS-18576 N64-10780 02-16

EFFECT OF IRRADIATION ON BIOLOGICAL SUBSTANCES - POST-BURNING CHANGES IN METABOLISM
JPRS-22022 N64-10856 02-16

FLIGHT MEDICINE - VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN, HYPOXIA & METABOLISM, FAT EMBOLISM DURING DECOMPRESSION
DVL-273 N64-12751 04-16

INTERMEDIARY METABOLISM - INFLUENCE OF CHRONIC HYPOXIA ON TRANSAMINASE ACTIVITY IN BLOOD
N64-12754 04-16

PROTEIN METABOLISM IN RABBITS DURING ACUTE RADIATION SICKNESS N64-12779 04-16

PROTEIN METABOLISM IN DOGS GIVEN TREATMENT FOR ACUTE RADIATION SICKNESS N64-12780 04-16

NUCLEIC ACID METABOLISM IN RAT SPLEEN AND BONE MARROW DURING ACUTE RADIATION SICKNESS
N64-12781 04-16

METABOLIC STUDIES OF AMINO ACID IMBALANCE IN RATS EXPOSED TO COLD TEMPERATURES
AAL-TDR-63-33 N64-13632 05-16

THERMAL & METABOLIC RESPONSE OF MEN TO MODERATE COLD EXPOSURE AT NIGHT
AAL-TDR-62-44 N64-13645 05-16

EFFECT OF COLD ON PROTEIN METABOLISM IN RATS
TN-62-11 N64-13830 04-16

PHYSICAL METABOLIC FATIGUE DUE TO SPARTASE - ASPARTIC ACID SALTS OF POTASSIUM AND MAGNESIUM
CARI-63-12 N64-14409 06-16

CHANGE IN METABOLIC PATTERN OF BRAIN DUE TO OXYGEN TENSION REDUCTION IN BLOOD - HYPOXIA
N64-14603 06-16

OXYGEN DEFICIENCY INFLUENCE ON HUMAN PERFORMANCE AND METABOLIC FUNCTIONS - AVIATION MEDICINE
DVL-205 N64-15034 07-16

ACTIVITY CHANGE OF GLUTAMIC-OXALACETIC ACID TRANSAMINASE BY ALBUMIN METABOLISM DUE TO OXYGEN DEFICIENCY - BIOCHEMISTRY N64-15039 07-16

STIMULATION OF ORGANISM METABOLIC PROCESSES UNDER OXYGEN DEFICIENCY, MUSCULAR WORK, HEAT, COLD, OR ACCELERATION STRESS N64-15045 07-16

REACTION OF CIRCULATION, RESPIRATION, AND METABOLIC FUNCTIONS TO CHANGING CLIMATE AT HIGH ALTITUDE N64-15046 07-16

TEMPERATURE DEPENDENCE OF METABOLIC PROCESSES IN PHOTOSYNTHETIC CELLS N64-15307 07-16

GAS CONSUMPTION AND METABOLISM OF COLD-BLOODED ANIMALS AND MIGRATION & RADIOACTIVITY OF MARINE ANIMALS
JPRS-23285 N64-15334 07-16

BIOLOGICAL EFFECT OF MAGNETIC FIELD ON DROSOPHILA
NASA-CR-55625 N64-15346 07-16

PATHOLOGICAL STUDIES ON STEROID SEX HORMONES, RADIATION EFFECT ON METABOLISM, LEUKEMIA, PARATHYROID, AND HYPOTHYROIDISM
ARCH-20 N64-15398 07-16

PHOSPHOPROTEIN METABOLISM IN CEREBRAL CORTEX FUNCTIONING
AD-430174 N64-15955 07-16

RADIOLOGY - EFFECTS OF PLUTONIUM-239 ON METABOLIC FUNCTIONS OF MAMMALS
FTD-TT-63-559/1&2 N64-16377 08-16

BIOCHEMICAL FUEL CELL TO AID IN BIOLOGICAL OXIDATION AND ELECTROCHEMICAL METABOLISM
N64-17391 09-06

METABOLIC OXIDATION AND REDUCTION OF ENERGY PRODUCING REACTIONS AS POSSIBLE BIOCHEMICAL FUEL CELLS N64-17393 09-06

ENDOCRINE & METABOLIC EFFECTS OF SHORT DURATION HYPEROXIA
SAM-TDR-64-6 N64-18917 11-16

BIOCHEMISTRY OF PHOTOSYNTHESIS AND CARBOHYDRATE METABOLISM
UCRL-11215 N64-19463 12-01

EFFECTS OF IONIZING RADIATION ON METABOLIC PROCESSES
FTD-TT-62-1575/1&2 N64-22390 15-16

METABOLISM OF COMPOUNDS OF RADIOACTIVE BROMINE ISOTOPE IN THYROID GLANDS OF RATS
N64-22869 16-16

METABOLIC INDICES IN ASTRONAUTS
N64-23747 16-16

PHYSIOLOGICAL DATA AND INSTRUMENT DEVELOPMENT FOR AUTOMATIC MEASUREMENT OF HEMODYNAMIC AND METABOLIC PARAMETERS ON PRIMATES DURING WEIGHTLESSNESS
NASA-CR-56348 N64-25768 17-16

EFFECTS OF CORTISONE ON METABOLISM OF RIBONUCLEIC ACID AND ITS NUCLEOTIDES IN RAT LIVER
NASA-TT-F-224 N64-27036 19-16

METABOLIC INTERCHANGES OF MAN FOR DESIGN OF SPACE VEHICLES
SM-45905 N64-27338 19-16

PHYSIOLOGICAL AND BIOCHEMICAL STUDY OF IONIZING RADIATION EFFECTS ON HUMAN METABOLISM AND BIOLOGICAL MUTATION
UCRL-11387 N64-27799 19-16

RAPID SCREENING TECHNIQUE IN VIVO FOR METABOLIC STUDY OF CHEMICAL TOXICITY OF HYDRAZINE AND ITS DERIVATIVES IN RATS N64-28947 20-16

CHANGES IN CEREBRAL METABOLIC PARAMETERS OF DOGS DURING PROGRESSIVE HYPOTHERMIA
SAM-TDR-64-44 N64-29288 21-16

METABOLIC CHANGES IN HUMANS FOLLOWING TOTAL BODY IRRADIATION
DASA-1422 N64-29941 21-16

ANIMAL METABOLISM AND DETOXIFICATION OF METABOLIC PRODUCTS DURING RADIATION INJURIES
JPRS-26500 N64-30742 22-16

ENDOCRINE AND METABOLIC RESPONSE OF RESTRAINED DOGS TO WHOLE-BODY VIBRATION
AMRL-TDR-64-54 N64-31943 23-16

INFLUENCE OF WATER INGESTION AND THIRST ON STARVATION METABOLISM
NASA-TT-F-9106 N64-33391 24-16

PHYSIOLOGY & PATHOLOGY OF WATER & SALT METABOLISM AND FLUID BALANCE OF WORKERS IN HOT ENVIRONMENTS
NASA-TT-F-9120 N64-33399 24-16

EFFECT OF CULTURE MEDIUM PH ON DEVELOPMENT OF CHLORELLA AND METABOLISM OF CARBON 14 ABSORBED IN CARBON DIOXIDE BY CHLORELLA N64-33495 24-16

GENERAL SCIENCE - METABOLISM, MICROBIOLOGY, AND CHEMISTRY
JPRS-26991 N64-33957 24-16

METAL
SA ALKALI METAL
SA ALLOY
SA BARIUM
SA BERYLLIUM
SA CADMIUM
SA CALCIUM
SA CERIUM
SA CESIUM
SA CHROMIUM
SA COBALT
SA COPPER
SA DYSPROSIUM
SA EUROPIUM
SA FUSED METAL
SA GADOLINIUM
SA GOLD
SA HAFNIUM
SA HOLMIUM
SA IRIDIUM
SA LANTHANUM
SA LIGHT METAL
SA LIQUID METAL
SA LITHIUM
SA MAGNESIUM
SA MAGNETIC METAL
SA MANGANESE
SA MOLYBDENUM
SA NEODYMIUM
SA NICKEL
SA NIOBIUM
SA NONFERROUS METAL
SA NOTCHED METAL
SA OSMIUM
SA PALLADIUM
SA PLATINUM
SA PLUTONIUM
SA POLISHED METAL
SA POTASSIUM
SA RADIUM
SA RARE EARTH
SA REFRACTORY METAL
SA RHENIUM
SA RHODIUM
SA RUBIDIUM
SA RUTHENIUM
SA SAMARIUM
SA SCANDIUM
SA SHEET METAL
SA SILVER
SA SODIUM
SA STRONTIUM
SA TANTALUM
SA THORIUM
SA TITANIUM
SA TRANSITION ELEMENT
SA TUNGSTEN
SA ULTRAPURE METAL
SA URANIUM
CF NONMETAL
THERMAL NONDESTRUCTIVE EVALUATION OF METALLIC AND CERAMIC STRUCTURES - INFRARED DETECTION
ASD-TDR-62-385 N64-10251 01-23

METAL & CERAMIC MATERIALS FOR REACTORS
ORNL-3470 N64-10262 01-01

HIGH PURITY METALS AVAILABLE FROM AMERICAN PRODUCERS
ISC-1029, REV. N64-10416 01-18

METAL DEFORMATION AND INDUCTION HEATING DURING ROLLING OF GEARS - COMPARISON WITH MACHINED GEARS
JPRS-19273 N64-10509 01-17

THERMOCONDUCTIVITY OF METALS AT CRYOGENIC TEMPERATURES
ASD-TDR-63-291 N64-10546 01-18

STRESS JUNCTION OF QUARTZ METAL TO PRODUCE WAVEGUIDE WINDOWS FOR ULTRAHIGH FREQUENCY DEVICES
JPRS-17936 N64-10569 01-09

SPUTTERING EFFECTS ON LUNAR SURFACE - METALLIC ENRICHMENT & ALBEDO
NASA-CR-52534 N64-10625 01-32

PROPERTIES OF METAL-CERAMIC ELECTRIC CONTACTS AS BASIS FOR POWDER METALLURGICAL STUDY OF HIGH VOLTAGE BREAKING SYSTEMS - WEARING CONDITIONS
JPRS-18926 N64-10648 01-09

EXPERIMENTAL METAL-CERAMIC ROLLING MILL
JPRS-19253 N64-10652 01-17

COLD WELDING OF PLASTIC METALS
JPRS-19103 N64-10815 02-18

RADIATION EFFECT IN BERYLLIUM OXIDE, GAS DIFFUSION IN UNFUELED CERAMICS, CERAMIC FUEL CONVERSION, AND REFRACTORY-METAL FUEL SYSTEMS
GEMP-28A N64-11291 02-19

HELIUM CONTENT OF METALLIC METEORITES
N64-11394 02-05

INSULATING STATE THEORY FOR FREE METAL PARTICLE ELECTRON WAVE FUNCTION
AD-419913 N64-11455 03-23

CRYSTAL DISLOCATION, INTERNAL FRICTION, AND DYNAMIC MODULUS OF FACE CENTERED CUBIC METALS AFTER DEFORMATION N64-11630 03-25

DIFFUSION COUPLE BONDING TECHNIQUE FOR OBTAINING DATA ON DIFFUSION KINETICS OF ALUMINUM-NICKEL-URANIUM SYSTEM
NAA-SR-8387 N64-11911 03-25

BONDING IN OXIDE FIBER WHISKER REINFORCED METAL MATERIALS
AMRA-CR-63-01/2 N64-12044 03-19

TITANIUM HYDRIDE METAL TO CERAMIC SEAL

MATT-228 N64-12091 03-17

RECOVERY BEHAVIOR OF COLD-WORKED METALS AT VARYING TEMPERATURES AND STRESSES
ASD-TDR-62-984 N64-12182 03-18

FREQUENCY DISTRIBUTION IN BIMETALLIC ALLOY CRYSTALS - LATTICE VIBRATION
RSIC-82 N64-12205 03-18

EQUATIONS AND CURVES FOR METAL STRENGTHENING WITHIN STATISTICAL THEORY OF DISLOCATIONS
N64-12758 04-25

ULTRASONIC TREATMENT OF METAL PARTS TO IMPROVE MECHANICAL PROPERTIES
FTD-TT-63-1001/1 N64-12861 04-17

ELECTRON THEORY OF SIMPLE METALS AND ALLOYS - MOTION OF ELECTRONS AND CONDUCTION ELECTRON DENSITY N64-12969 04-23

ELECTRON-EXCHANGE CORRECTION TO SOUND-WAVE DISPERSION RELATION IN METALS
NASA-CR-53035 N64-13406 04-25

HYPERVELOCITY IMPACT AND PENETRATION OF METAL TARGETS N64-13548 05-23

LOW ENERGY ELECTRON DIFFRACTION APPARATUS FOR STUDYING SURFACE & STRUCTURE OF SINGLE CRYSTAL METALS & SEMICONDUCTORS
ARL-63-197 N64-13636 05-25

THEORETICAL EQUATION OF STATE FOR FACE CENTERED CUBIC METALS
NOLTR-63-108 N64-13815 05-25

EFFECTS OF ULTRASONICS ON METAL DEFORMATION CHARACTERISTICS
AD-425846 N64-13853 05-18

HIGH-TEMPERATURE, SHORT-TIME URANIUM CARBIDE-METAL REACTIONS
HW-72031 N64-13978 05-19

FORMATION OF POROSITY DURING DIFFUSION PROCESSES IN METALS
UCRL-10383 N64-14398 06-25

POLYMERS, PLASTIC MATERIALS, SYNTHETIC FIBERS, ORGANIC & INORGANIC COMPOUNDS, METALS, AND ALLOYS
CRDL-SP-5-3 N64-14815 06-19

HIGH TEMPERATURE CORROSION STUDIES OF METAL ALLOYS
BM-RI-6359 N64-14882 06-07

MEASUREMENT OF METAL TEMPERATURE BY ELECTRO-MAGNETIC INDUCTION
HW-79621 N64-15834 07-15

REDUCTION OF OXYGEN IN TANTALUM BY REACTIVE METALS
LAMS-3022 N64-15911 07-17

REINFORCED METAL COMPOSITE PREPARATION BY ELECTRO-DEPOSITION AND VAPOR DEPOSITION OF METALS AND OXIDES ON METAL FIBERS N64-16315 08-18

VIBRATION GRINDING OF METALS AND ALLOYS
FTD-TT-63-44/162 N64-16411 08-17

CURRENT, VOLTAGE, AND ELECTROLYTE COMPOSITION FOR ELECTROLYTIC HEAT TREATMENT OF METALS
NAEC-AML-1035 N64-16449 08-17

BEHAVIOR OF NONCUBIC POLYCRYSTALLINE METALS IN THERMAL CYCLING N64-16607 08-18

WEAR MEASUREMENT OF METAL SPECIMENS SUBMITTED TO CONSTANT CAVITATION FIELD BY USING RADIOTRACER TECHNIQUES
NASA-CR-53112 N64-16763 08-08

THEORETICAL CORRECTIONS FOR DETERMINING RESISTIVITY CHANGE OF METALS CAUSED BY ELECTRON BOMBARDMENT
AFCRL-64-2 N64-16867 08-23

FISSION PRODUCT TRANSPORT PROCESSES OF KRYPTON IN

REFRACTORY METAL FUEL SYSTEMS N64-17000 09-23

ACTIVATION ENERGY OF ATOMIC DISPLACEMENTS IN SOLID METALS N64-17033 09-13

INFLUENCE OF THERMAL VIBRATION OF ATOMS ON ELECTRON SPECTRUM OF METALS & ALLOYS
N64-17054 09-25

ELECTRODISPLACEMENT IN METALLIC SOLID SOLUTIONS
N64-17056 09-25

FRACTURE CHARACTERISTICS OF STRUCTURAL METALS
ER-5426 N64-17303 09-18

SURFACE DIFFUSION SATURATION OF METALS AND REFRACTORY SURFACE COATINGS
JPRS-24165 N64-18401 10-18

AERODYNAMICS, STRUCTURES, PROPERTIES OF METALS AND ALLOYS, MECHANICAL ENGINEERING, GUIDED WEAPONS, AND AIRCRAFT OPERATION RESEARCH
N64-18420 10-01

CONSTRUCTION AND OPERATION OF QUARTZ COMPOSITE OSCILLATOR FOR MEASURING INTERNAL FRICTION IN METALS AND ALLOYS
BM-RI-6419 N64-18506 10-09

DIFFERENTIAL THERMAL ANALYSIS OF METALS & ALLOYS
ASD-TDR-63-504 N64-18578 11-18

RECOVERY OF ZINC FROM GALVANIZERS DROSS AND ZINC-BASE DIE-CAST SCRAP BY SIMULTANEOUS REFINEMENT AT LOW TEMPERATURES WITH INEXPENSIVE EQUIPMENT
BM-RI-6417 N64-18639 11-17

INFLUENCE OF ULTRASONIC RADIATION ON PHYSICAL PROPERTIES OF METALS - ALUMINUM CYLINDER TEST SAMPLE
FTD-MT-63-161 N64-18687 11-17

DATA REVIEW OF HEAVY METAL REFRACTORY COMPOUNDS
N64-18823 11-19

HIGH TEMPERATURE ELASTOMERIC AND METALLIC SEALS FOR AIRCRAFT HYDRAULIC SYSTEM N64-19022 11-19

FORMATION OF POLYMER CHAINS AROUND METAL MOLECULE SKELETONS - POLYORGANIC METAL SILOXANES AND POLYORGANIC SILOXY METAL OXANES
TIL/T-5502 N64-19851 12-07

STATE EQUATION DESCRIBING THERMODYNAMIC BEHAVIOR OF METALS OVER WIDE RANGE OF TEMPERATURE AND COMPRESSION
RM-3905-PR N64-20280 13-20

KINETICS AND AERODYNAMICS OF OXIDATION OF METALS BY PARTIALLY DISSOCIATED OXYGEN
AEROCHEM-TN-61 N64-20352 13-18

THERMAL ENERGY EMISSION MEASUREMENTS IN PLASTIC TENSILE DEFORMATION OF METAL AT LOW TEMPERATURES
D1-82-0311 N64-20637 13-13

OPTIMIZATION OF CHARGE-TO-METAL RATIOS IN WARHEADS WITH FIXED WEIGHT OR FIXED VOLUME LIMITATIONS
NAVWEPS-8471 N64-21174 14-01

COMPOSITE STRUCTURAL MATERIALS WITH HIGH STRENGTH-TO-WEIGHT RATIOS AT ELEVATED TEMPERATURES
AD-439813 N64-21182 14-18

MECHANICS OF METALLIC CREEP N64-21986 15-33

HALL-EFFECT DEVICES FOR FLAW DETECTION IN METAL
R-1710 N64-22057 15-18

ACTIVATED SINTERING OF BODY CENTERED CUBIC METALS BY HIGH FREQUENCY INDUCTION HEATING
QPR-4,5 N64-22083 15-18

EFFECTS OF ULTRASONICS ON DEFORMATION CHARACTERISTICS OF METALS
AD-600383 N64-22334 15-18

FLUID IMPACT CRATERS AND HYPERVELOCITY - HIGH VELOCITY IMPACT EXPERIMENTS IN METALS AND ROCKS

NASA-CR-56359 N64-22459 15-12

HOT CHROMIC ACID AS EPOXY STRIPPER ON AIRCRAFT METALS
A730 N64-22576 15-17

EFFECT OF HYDROGEN ON HIGH TEMPERATURE FLOW AND FRACTURE CHARACTERISTICS OF METALS
ORNL-3600 N64-23015 16-18

INFRARED ANALYSIS OF GASES PRODUCED DURING MOLTEN SALT ELECTROLYSIS OF METALS
BM-RI-6476 N64-23242 16-23

INDUSTRIAL SAFETY IN PRODUCTION OF METALLIC THALLIUM AND ITS SALTS
JPRS-25206 N64-23257 16-16

CHANGE OF DISLOCATION STRUCTURE OF METALS DURING CYCLIC STRESS N64-23449 16-33

FORMATION OF CRYSTAL STRUCTURE DEFECTS IN METALS DURING ARC DISCHARGE N64-23502 16-18

COMPARISON OF ION BEAM DRILLING AND ELECTRIC DISCHARGE PERFORATION OF METALS
N64-23506 16-18

METAL FABRIC EXPANDABLE STRUCTURE FOR AEROSPACE APPLICATION N64-23705 16-18

X-RAY ANALYSIS OF DISTORTIONS OF CRYSTALLINE STRUCTURES IN SURFACE LAYERS OF METAL SUBJECTED TO POWER CUTTING N64-23842 16-33

EFFECT OF FINITE CONDUCTIVITY ON RADAR CROSS SECTIONS OF METAL BODIES N64-24317 17-08

MAGNETOPLASMA RESONANCE IN SEMICONDUCTORS & METALS
N64-24673 17-25

METAL SUBSTRATE WITH LAYER OF FROZEN XENON AS SECONDARY ELECTRON EMITTER
AFCRL-64-405 N64-24931 17-09

WHISKER-REINFORCED METALLIC COMPOSITES
N64-25418 17-17

LIGHT METAL FUELS AND OXIDIZER CHEMISTRY
EC-636 N64-25701 17-26

ULTRASONIC WAVES FOR INTERNAL STRESS MEASUREMENT IN METAL STRUCTURES
AD-438449 N64-25839 18-33

FUEL CELLS - MASS TRANSFER IN SOLID METAL ELECTRODES, AND GAS SOLUBILITY AND DIFFUSIVITY IN ELECTROLYTES
UFGG-8 N64-25861 18-06

MEAN FREE PATH AND BOUNDARY INFLUENCES IN METALLIC FIELD EFFECT
TR-13 N64-26034 18-23

EMBRITTLEMENT OF METALS BY ORGANIC LIQUID
IITRI-B183B2-5 N64-26059 18-18

DIMENSIONAL INSTABILITY IN METALS
DMIC-MEMO-189 N64-26195 18-17

LOWERING DUCTILE-TO-BRITTLE TRANSITION TEMPERATURE OF BODY-CENTERED-CUBIC METALS
ATN-64/9256/-4 N64-26669 18-18

ANNOTATED BIBLIOGRAPHY ON GROWTH OF METAL AND METALLIC OXIDE WHISKERS
SB-63-68 N64-26714 18-18

FAILURE MECHANISMS AT METAL-DIELECTRIC INTERFACES
RADC-TDR-64-138 N64-26918 18-25

CONTACT HEAT TRANSFER BETWEEN PLANE METAL SURFACES
TIL/T-5407 N64-27040 19-13

MECHANICAL PROPERTIES AND DEFORMATION CHARACTERISTICS OF METALS AND ALLOYS UNDER PRESSURE
NEL-142 N64-27187 19-18

EFFECT OF SOLID STATE DISLOCATIONS UPON CATALYTIC ACTIVITY OF METALS
AD-400749 N64-27613 19-07

HIGH TEMPERATURE DEFORMATION AND FRACTURE BEHAVIOR OF METALS UNDER HIGH STRAIN RATE CONDITIONS
PR-5 N64-27680 19-18

RADIOACTIVE ISOTOPES FOR MEASUREMENT OF CAVITATION-EROSION DAMAGE ON METALS
NASA-CR-58072 N64-27829 19-18

CORROSION AND RESISTANCE OF, AND RADIATION EFFECTS ON STEELS AND OTHER CONSTRUCTION METALS
JPRS-26020 N64-28445 20-18

CREEP IN METAL AT HIGH TEMPERATURES UNDER COMBINED TENSILE AND TORSIONAL STRESS N64-28499 20-33

INORGANIC MACROMOLECULES WITH SILICON-OXYGEN-METAL LINK
AD-601415 N64-28664 20-07

DIFFUSION OF NONVOLATILE METALLIC ELEMENTS IN GRAPHITE
UCRL-7324 N64-28730 20-25

METAL LAMINATES WITH HIGH VIBRATION DAMPING FOR FAIRWATER AND SUPERSTRUCTURE PLATES ON SUBMARINES
REPT.-94-53 N64-28810 20-17

REACTIVE ATMOSPHERES FOR TREATMENT OF BODY CENTERED CUBIC METALS
AD-440990 N64-28811 20-18

GROWTH AND PROPERTIES OF FILAMENTARY SINGLE CRYSTALS OF PURE METALS - COPPER, SILVER, GOLD, AND ALUMINUM
ASD-TDR-63-641 N64-29250 21-25

PURIFICATION OF VACUUM EVAPORATED THIN FILMS OF METALS AND SEMICONDUCTORS BY SIMULTANEOUS ELECTROMAGNETIC LEVITATION AND INDUCTION HEATING
SAR-9 N64-29398 21-23

CHELATE POLYMERS OF BIS-DITHIOCARBAMIC ACIDS AND METALS
T-R-432 N64-29598 21-07

IMPACT VELOCITY EFFECT ON RESISTANCE OF METALS TO PLASTIC FLOW
FTD-MT-64-217 N64-30155 21-18

SINGLE-PULSE INSTANTANEOUS SURFACE TEMPERATURE OF METALS SUBJECTED TO HIGH-INTENSITY PULSED ELECTRON BEAM BOMBARDMENT
TR-351 N64-30206 21-13

HIGH TEMPERATURE RESISTANT METAL REINFORCED REFRACTORY CERAMIC COATING FOR INSULATION OF SUBSTRUCTURES
ML-TDR-64-81 N64-30928 22-17

METAL-CERAMIC COMPOSITE MATERIALS FOR HIGH TEMPERATURE STRUCTURAL APPLICATION TO REENTRY VEHICLES
ML-TDR-64-583 N64-30929 22-18

ABSTRACTS ON BASIC AND APPLIED RESEARCH AND DEVELOPMENT PROGRAM IN METALS, CERAMICS, NON-METALS, AND ELASTOMERS
WADC-TR-53-373, SUPPL. 10 N64-30936 22-17

PENETRATION DEPTH OF METAL PARTICLES IN HYPERVELOCITY IMPACT
ATL-TR-64-64 N64-31120 22-33

CRACK INITIATION IN METALLIC MATERIALS - ANALYSIS OF HOLE AND NOTCH STRESS FIELDS, AND EXPERIMENTAL STUDIES OF SURFACE DEFECT EFFECTS
MET-E-1040-630803 N64-31164 22-18

VAPORIZATION OF METAL BY MELTING WITH ELECTRON BEAM - PRODUCING ELECTRON BEAM FROM HOLLOW COLD CATHODE
JPRS-26891 N64-31314 22-17

PRESSURE EFFECT ON DUCTILITY OF METALS DURING

HYDRODYNAMIC COMPRESSIVE FORGING
ML-TDR-64-240 N64-31894 23-17

SCAN HEAT AND HEAT SUPPORT TECHNIQUES FOR THERMAL INSPECTION OF NONDESTRUCTIVE METALLIC AND CERAMIC MATERIALS
ASD-TDR-62-385, PT. III N64-31939 23-17

RADAR CROSS SECTION MEASUREMENTS BY SHIELDED METAL COLUMN AND SUSPENSION TARGET SUPPORT DEVICES
FZE-222-5 N64-31950 23-10

EFFECT OF TEMPERATURE VARIATIONS, THICKNESS OF SUPERCONDUCTING LAYERS, AND LEAD, TIN, & INDIUM ON FLUX DECAY DUE TO ALPHA PARTICLE IRRADIATION
LNF-64/35 N64-32004 23-25

HIGH TEMPERATURE DEFORMATION AND FRACTURE OF METALS AT HIGH STRAIN RATE
PR-2 N64-32279 23-18

PHYSICAL AND CHEMICAL PROPERTIES OF ANHYDROUS METAL NITRATES
ATR-23 N64-32367 23-07

DATA RETRIEVAL AND STORAGE OF MECHANICAL PROPERTY INFORMATION OF METALS AND REINFORCED PLASTICS
ASD-TDR-63-566, PT. I N64-32610 23-10

CALCULATION OF PARTITION FUNCTION, IONIZATION POTENTIAL LOWERING, ELECTRON, ION, & NEUTRAL PARTICLE SPECIES CONCENTRATIONS, AND SPECTRAL LINE INTENSITIES OF COPPER PLASMA
REPT.-4613-66-T N64-32675 23-24

PREPARATION AND PHOTOELECTRIC EMISSION ANALYSIS OF ATOMICALLY CLEAN METAL SAMPLES
NASA-CR-58960 N64-33047 24-17

CRYOGENIC TEMPERATURE SYSTEM FOR MEASURING THERMAL EXPANSION OF METALLIC AND NONMETALLIC MATERIALS USED IN LARGE SPACE VEHICLES
NASA-TM-X-53090 N64-33184 24-15

NEW COLLECTIVE RESONANCE IN FREE-ELECTRON META - POTASSIUM N64-33454 24-25

BINARY EUTECTIC OF METALS OR SALTS AS THERMAL ENERGY STORAGE SYSTEM - EQUILIBRIUM PROPERTIES
NASA-CR-51748 N64-33777 24-13

METAL HONEYCOMB ELEMENTS USED AS AXIAL ENERGY ABSORBERS - GEOMETRY, UNIT WEIGHT, MATERIAL THICKNESS & DENSITY
NASA-CR-59371 N64-33903 24-34

METAL BONDING
EFFECT OF INTERFACIAL BONDING ON STRENGTH OF TWO-PHASE SYSTEM CONSISTING OF TUNGSTEN IN GLASSY MATRIX
UCRL-11011 N64-11583 03-19

INSTRUMENT FOR MEASURING FORCE NECESSARY TO SEPARATE SMALL METAL SPECIMENS CLEANED & JOINED IN ULTRAHIGH VACUUM
NASA-CR-52990 N64-12032 03-23

CERAMIC TO METAL SEALS FOR HIGH-TEMPERATURE THERMIONIC CONVERTERS
RTD-TDR-63-4109 N64-12672 04-19

TENSILE LAP SHEAR STRENGTHS OF METAL-TO-METAL AND METAL-TO-LAMINATE CONFIGURATIONS
A482 N64-17140 09-18

DIELECTRIC-TO-METAL SEALING TECHNIQUES USED WITH OUTPUT WINDOWS FOR HIGH POWER MICROWAVE TUBES
RADC-TDR-63-472 N64-19187 11-17

TWO-LAYER STEEL FABRICATION - PREPARATION OF PLATES AND BLANKS, CASTING, HEATING AND ROLLING OF TWO-LAYERED INGOTS
JPRS-24422 N64-19302 12-18

JOINING OF STEEL AND OTHER WEAR-RESISTANT METALS TO ALUMINUM ALLOYS
FA-M64-8-1 N64-20407 13-17

CREEP DEFORMATION OF METAL ADHESIVE BONDING
DFL-229 N64-21534 15-19

POLYESTER PLASTIC MATERIAL & METAL BONDING ADHESIVES
FTD-TT-62-940/1 N64-23451 16-01

METAL BONDING ADHESIVES - SURFACE TREATMENT AND QUALITY CONTROL OF BONDS N64-23453 16-18

METALLURGICAL BONDING BETWEEN PLASMA-SPRAYED TUNGSTEN AND HOT TUNGSTEN SUBSTRATES
N64-27016 19-17

BONDING MECHANISM BETWEEN PLASMA-SPRAYED TUNGSTEN AND STAINLESS STEEL SUBSTRATE
NASA-TN-D-2461 N64-29336 21-18

NUCLEAR RADIATION EFFECTS ON CERAMIC-BONDED, RESIN-BONDED, AND METAL-MATRIX-BONDED SOLID FILM LUBRICANTS
NARF-63-11T N64-29801 21-17

DIELECTRIC TO METAL SEALS AND COMPRESSION BAND WINDOW ASSEMBLIES FOR HIGH POWER MICROWAVE TUBE OUTPUT WINDOW
RADC-TDR-63-393 N64-31153 22-17

RELATIONSHIP OF YIELD STRENGTH TO ATOMIC BONDING IN TELLURIDES OF ZINC, CADMIUM, AND MERCURY
AD-418732 N64-32971 24-25

METAL COATING
METAL COATINGS FOR GLASS FILAMENTS
NRL-TM-237 N64-12370 03-19

SURFACE COATING OF METAL OBJECTS BY VIBRATING-ARC WELDING
FTD-TT-62-1250/1&2 N64-16343 08-17

TITANIUM SURFACE STRENGTHENING BY NITRATION, OXIDATION, AND METAL PLATING - TITANIUM PLATING OF STEEL
JPRS-23913 N64-17736 09-18

METAL COMPOUND
KINETIC & THERMODYNAMIC PROPERTIES OF REFRACTORY METAL BORIDES & NITRIDES
UCRL-7559 N64-17073 09-19

THERMODYNAMIC PROPERTIES OF METAL BROMIDES, IODIDES, SULFIDES, SULFATES, PHOSPHATES, BORATES, TUNGSTATES, MOLYBDATES, & HYDROXIDES
SC-RR-64-67 N64-17537 09-13

CHANGES IN STRUCTURE AND MECHANICAL PROPERTIES OF ALLOYS BASED ON METAL COMPOUNDS BY SUBSTITUTING LOW-MELTING COMPONENT N64-21192 14-18

BEHAVIOR OF TETRA AND DIVALENT RARE EARTHS IN METALLIC COMPOUNDS
AD-439982 N64-26420 18-18

MOLECULAR GEOMETRY OF HIGH TEMPERATURE LIGHT METAL COMPOUNDS BY ELECTRIC DIPOLE DETERMINATIONS USING MOLECULAR BEAM ELECTRIC DEFLECTION
ITR-7 N64-28297 20-07

EFFECT OF ULTRASOUND ON PROCESS OF LEACHING SLIGHTLY SOLUBLE RARE METAL COMPOUNDS
N64-31417 23-07

ELECTRIC DEFLECTION AND MASS SPECTROMETRIC STUDY OF HIGH TEMPERATURE THERMODYNAMICS OF LIGHT METAL COMPOUNDS
C-64362 N64-32809 24-13

METAL CORROSION
METALLURGICAL EXAMINATION OF HASTELLOY X FOR CORROSION
A468 N64-16786 08-18

GASEOUS BODY IRRADIATOR AND STAINLESS STEEL CORROSION - COMPLETE BIBLIOGRAPHIES
JPRS-24350 N64-19447 12-01

LOW CHROMIUM AREAS AS CAUSE OF STAINLESS STEEL CRYSTAL CORROSION N64-19449 12-18

CORROSION INHIBITOR - SILVER-COPPER-LITHIUM BRAZED STEEL SANDWICH PANELS
FGT-3066 N64-20043 13-18

CORROSION AND PROTECTION OF METALLIC STRUCTURAL MATERIALS
FTD-TT-63-672/1&2 N64-27087 19-18

CHEMICAL AND ELECTROCHEMICAL PASSIVATION AND CORROSION OF IRON IN NITRIC ACID
FTD-TT-62-1721/1&2 N64-29023 21-07

SULFUR EFFECT ON HOT GAS CORROSION OF SUPERALLOYS IN MARINE ENVIRONMENT
REPT.-3824-64R N64-31631 23-18

AVIATION FUEL SULFUR CONTENT AND SEA WATER INGESTION EFFECT ON HOT GAS CORROSION OF SUPERALLOYS IN HIGH PERFORMANCE ENGINES
REPT.-3686-64R N64-31632 23-18

METAL FATIGUE
SA GRIFFITH FRACTURE THEORY
SA SHOT PEENING
EFFECT OF DISLOCATIONS & VACANCIES ON FATIGUE, BRITTLE FRACTURE, PLASTIC PROPERTIES, AND HEAT RESISTANCE OF METALS
JPRS-18817 N64-10789 02-18

CRITICAL DISLOCATION DENSITY NEAR GRAIN BOUNDARY OF METAL ASSOCIATED WITH FATIGUE FRACTURE - IRON ALLOYS N64-10790 02-18

APPARATUS FOR TESTING FATIGUE OF MACHINED METALLIC SPECIMENS IN HIGH VACUUM SIMULATING SPACE
EM-13-11 N64-12901 04-15

DYNAMICS OF GASES & PLASMAS, AERODYNAMICS OF SUBSONIC VEHICLES, FATIGUE IN METALS AND METAL STRUCTURES, BLAST WAVE PHENOMENA
AD-423576 N64-12972 04-23

DIRECT READING DERIVATIVE SPECTROMETER AND FRACTURE TOUGHNESS OF METALS - NRL PROJECTS N64-17217 09-01

FRACTURE TOUGHNESS OF METALS N64-17219 09-18

HIGH STRAIN RATE DEFORMATION BEHAVIOR OF METALS OVER WIDE RANGE OF TEMPERATURES AND RATES OF DEFORMATION
AD-432669 N64-17648 09-18

DEFORMATION EFFECTS ASSOCIATED WITH CREEP AND FATIGUE LOADING ON METALS
RID-TDR-63-4149 N64-17858 10-18

METAL FATIGUE AND PLASTIC DEFORMATION - HARDENING AND STRESS RELAXATION HYPOTHESES
ONERA-TM-27/1963/ N64-19546 12-25

METAL FATIGUE AND CYCLIC STRESS
JPRS-25124 N64-23447 16-33

LOW TEMPERATURE & FATIGUE PROPERTIES OF CERTAIN METAL ALLOYS N64-32363 23-18

METAL FILM
SA THIN FILM
SUBSTRATE CLEANING, ORGANIC MONOLAYER DEPOSITION, AND ROLE OF SPREADING SOLVENT DURING FORMATION OF METALLIC STEARATE FILMS
SSD-TDR-63-316 N64-15298 07-25

ELECTRON DIFFRACTION STUDY OF PHASE CHANGES IN THIN METAL AND OXIDE FILMS N64-17064 09-25

FRICTION MEASUREMENTS OF SOLID SURFACES COVERED WITH SOLID FILMS OF LEAD, NICKEL, AND CHROMIUM
RTD-TDR-63-4272, PT. V N64-17513 09-18

APPARATUS FOR EXTENDING MEASUREMENTS OF REFLECTION AND TRANSMISSION AND PHOTOELECTRON YIELDS OF THIN METALLIC FILMS TO FIFTY ANGSTROMS
NASA-CR-53287 N64-17599 09-15

ALUMINUM OXIDE AS POROUS SUBSTRATE FOR METAL FILM RESISTORS
AD-433270 N64-17630 09-09

FAILURE MECHANISMS IN METAL FILM RESISTORS N64-20971 14-09

AGING MECHANISMS IN METAL FILM RESISTORS N64-20987 14-25

ANNOTATED BIBLIOGRAPHY - FABRICATION OF IRON, NICKEL, NICKEL-IRON OR PERMALLOY FILM BY THERMAL DECOMPOSITION OF CARBONYLS OR OTHER METHODS
SP-63-62 N64-21165 14-18

BARIUM, GOLD, AND SILVER FILM LUBRICATION OF MINATURE BALL BEARINGS FOR VACUUM SYSTEM USE
NASA-TN-D-2304 N64-21268 14-17

SPIN-WAVE INSTABILITIES IN PERMALLOY FILMS OF VARYING THICKNESS
AFCRL-64-101 N64-21449 14-23

METAL-POLYMERIC FILMS ON FRICTION SURFACE
FTD-TT-63-564/1&2 N64-21932 15-17

REPETITIVE PULSED PLASMA ACCELERATOR WITH THIN METAL FILM AS PLASMA SOURCE N64-22054 15-24

POROUS SUBSTRATE RESISTOR AIMED AT MINIATURIZATION OF METAL-FILM RESISTORS
IDR-7 N64-26196 18-09

PROBLEMS IN MEASUREMENT OF THIN EVAPORATED METAL FILMS ON MYLAR
NASA-CR-58209 N64-27904 20-17

HIGH POWER GASEOUS ELECTRONICS - THIN METALLIC FILMS TO CONTROL GAS CLEAN-UP
REPT.-6 N64-30574 22-09

OPTICAL PROPERTIES OF OPAQUE METAL FILMS BY ELLIPSOMETRIC MEASUREMENTS ON SUBSTRATE BACK SURFACE
SAR-10 N64-31124 22-25

METAL FOIL
ULTRASONIC WELDING OF BERYLLIUM FOIL TO STAINLESS STEEL
NASA-TM-X-935 N64-12956 04-17

HIGH AND LOW TEMPERATURE REFRACTORY METAL PRECOOLERS - FORMING, JOINING, TESTING, AND COATING OF METAL FOIL HEAT EXCHANGERS
ER-1245-8 N64-14657 06-13

COATED REFRACTORY METAL ALLOY FOILS FOR AEROSPACE APPLICATIONS
RDR-1325-6 N64-15597 07-18

DEFORMATION CHARACTERISTICS OF THIN METAL FOILS AND COMPOSITES
F-A2366 N64-17446 09-25

ROLLING OF NIOBIUM, TANTALUM, AND TUNGSTEN BASE ALLOY INTO FOIL
AD-434397 N64-18067 10-17

PROTECTIVE COATING FOR REFRACTORY METAL FOILS N64-27013 19-17

METAL WHISKERS - INDUCED GROWTH, GROWTH MECHANISM, ENERGY SOURCES FOR GROWTH, MAGNETIC PROPERTIES, AND RADIATION EFFECTS N64-28218 20-25

LIGHTWEIGHT METAL FOIL HEAT EXCHANGERS FOR HYDROGEN PRECOOLING IN AEROSPACE VEHICLES
ITR-5 N64-31268 22-13

METAL FORMING
ULTRASONIC ENERGY APPLICATION TO METAL FORMING AND CUTTING OPERATIONS
DNIC-107 N64-13598 05-17

STUDY OF INDUSTRIAL APPLICATIONS OF MAGNETIC-PULSE METAL FORMING
NASA-CR-55836 N64-16708 08-17

METAL FORMING, MACHINING, & FINISHING COMPONENTS FABICATED FROM HEAT RESISTANT ALLOYS, STAINLESS STEEL, & TITANIUM ALLOYS
FTD-TT-63-344/1&2 N64-17076 09-17

WORK FORMING OF TITANIUM ALLOYS
N64-17089 09-18

METAL FORMING AND HEAT RESISTANCE STUDY OF REFRACTORY METALS FOR ROCKET ENGINE APPLICATIONS
N64-27602 19-18

WATER-FREE EXPENDABLE GRAPHITE MOLD MATERIAL FOR REACTIVE METAL CASTINGS
BM-RI-6509 N64-28139 20-17

MECHANICAL PROPERTIES OF CAST METALS AND METHODS OF CASTING
JPRS-25537 N64-29035 21-18

DIRECT CONTACT EXPLOSIVE METAL FORMING
IR-8-238/I/ N64-29317 21-17

ELECTROFORMING OF ALUMINUM FOR SOLAR ENERGY CONCENTRATORS
NASA-CR-56408 N64-29781 21-07

DEFORMATION CHARACTERISTICS OF DIFFICULT-TO-FORM METALS - EFFECT ON PROCESSING OPERATIONS
AD-446229 N64-30598 22-18

DEPOSITION FORMING OF COBALT-TUNGSTEN AND NICKEL ALLOYS BY ELECTROCOMBINATION PROCESS
IPR-2 N64-31135 22-17

ROCKET NOZZLE MATERIAL DEVELOPMENT - VAPOR DEPOSITION OF TUNGSTEN AND TANTALUM, AND TUNGSTEN CASTING N64-32696 24-17

FABRICATION OF REFRACTORY METALS AND ALLOYS - METAL FORMING, DEPOSITION, COLD WORKING, WELDING, AND MACHINING TECHNIQUES N64-32768 24-17

METAL ION
BIO-ORGANIC CHEMISTRY - METAL ION INTERACTION WITH POLYELECTROLYTES
UCRL-9519 N64-18090 10-07

FLUORESCENCE OF TRANSITION METAL IONS IN CRYSTALS
TR-190 N64-30690 22-25

METAL SHELL
STRENGTH & STABILITY OF AXISYMMETRIC, BIMETALLIC, CYLINDRICAL SHELLS
RSIC-12 N64-12299 03-18

METAL SURFACE
ADHESION BETWEEN ATOMICALLY CLEAN METALLIC SURFACES - SURFACE ENERGY AND BONDING
NASA-CR-52482 N64-10372 01-18

SEMIAUTOMATIC RECORDING OF POTENTIAL DIFFERENCE ON SURFACE OF STRUCTURAL COMPONENTS OF ALLOY
N64-12441 04-18

OXIDATION PRODUCTS USED TO FASTEN RUBBER TO METAL
FTD-TT-63-831/1&2 N64-12630 04-17

S-CURVES OF ELECTRON EMISSION FOR ABSORBATES, SUBSTRATES, AND ARRIVAL RATES FROM PARTIALLY COVERED CESIUM METAL SURFACE N64-14211 06-23

ULTRAHIGH VACUUM SYSTEM FOR PREPARING CLEAN METAL SURFACES AND MEASURING OPTICAL CONSTANTS
NASA-CR-55515 N64-15388 07-23

INTERACTION OF ATOMIC PARTICLES WITH METAL SURFACES
AEC-TR-6089 N64-15933 07-23

PLASMA GENERATION, ELECTRON TRANSPORT, AND CESIUM INTERACTION WITH METAL SURFACE AND INSULATORS IN VAPOR-FILLED THERMIONIC CONVERTER
NASA-CR-54009 N64-17222 09-23

SPECTRAL EMISSIVITY OF POLISHED METALS AFTER DAMAGE BY SIMULATED MICROMETEORITE
NASA-CR-53235 N64-17590 09-23

COHESION OF CLEAN METAL SURFACES IN SPACE ENVIRONMENT - FRACTURE-REJOIN EXPERIMENTAL TECHNIQUE AND COHESION DATA FOR COPPER AND STEEL
N64-19881 12-25

TRANSGRANULAR AND INTERGRANULAR SURFACE FRACTURE OF METALS & ALLOYS - ELECTRON MICROSCOPY
D1-82-0169-RI N64-20275 13-23

PAINT AND FILM REMOVAL FROM STEEL AND ALUMINUM SURFACES
CCL-159 N64-20321 13-17

WORK FUNCTION OF METAL SURFACE IN CESIUM VAPOR
NASA-TM-X-52026 N64-20607 13-23

RADIATION INDUCED DISCOLORATION OF METAL SURFACES IN SPACECRAFT ENVIRONMENT
TR-63-414-1 N64-20888 14-23

ANGULAR DISTRIBUTION OF SECONDARY IONS FROM ION BOMBARDMENT OF METAL SURFACES
FTD-TT-62-1719/1&2 N64-22146 15-23

WETTING OF SURFACE OF SEMICRYSTALLINE ZINC WITH MERCURY
FTD-TT-63-384/1&2 N64-22350 15-11

GAS-BUBBLE PRESSURE METHOD FOR DETERMINING SURFACE TEMPERATURE OF METALS OF IRON FAMILY
N64-23318 16-18

CONDUCTIVE HEAT TRANSFER AT INTERFACE OF TWO METALS IN VACUUM
AIAA PAPER-64-253 N64-23610 16-13

X-RAY INVESTIGATION OF SURFACE LAYERS OF METAL DURING ROLLING FRICTION N64-23837 16-33

X-RAY ANALYSIS OF WEAR OF METALS WITH PREHARDENED SURFACE N64-23840 16-33

ADSORPTION OF COMPOUNDS ON BEARING SURFACES AND COMPARISON OF LUBRICATIVE ABILITY
REPT.-64-232 N64-24011 16-07

SURFACE POTENTIALS AND INDUCED POLARIZATION IN NONPOLAR LIQUIDS ADSORBED ON METALS
NRL-6068 N64-24345 17-07

RUBIDIUM AND CESIUM IONS SCATTERED FROM MOLYBDENUM SURFACE N64-24569 17-23

EVAPORATION OF GOLD FROM GRID AND CROSSARM SURFACES AND DISTRIBUTION ON ELEMENTS OF RADIO TUBE WITH OXIDE CATHODE N64-24570 17-09

RADIOACTIVE ISOTOPES IN SALT SPRAY TESTING FOR EVALUATION OF METAL SURFACE PROTECTIVE COATINGS
PA-TM-1271 N64-25299 17-18

HEAT TRANSFER MECHANISMS IN METALLIC CONTACT SURFACES IN VACUUM
NASA-CR-58705 N64-29513 21-13

ELECTRONIC RELAXATION EFFECT IN METAL EMISSIVITY
USNRDL-TR-755 N64-30596 22-25

SURFACE ROUGHNESS EFFECT ON HEMISPHERICAL AND SPECULAR REFLECTANCE OF METALLIC SURFACES IRRADIATED BY BLACK BODY IRRADIATION
ASME PAPER-63-HT-6 N64-30787 22-18

METAL VAPOR
CRITICAL TWO-PHASE FLOW OF STEAM-WATER MIXTURES WITH APPLICATION TO LIQUID-VAPOR METAL SYSTEMS IN PIPES
ANL-6779 N64-13292 04-11

CERAMIC COATINGS FOR INSULATED WIRES EXPOSED TO ALKALI METAL VAPORS - CORROSION PREVENTION
APL-TDR-64-42 N64-19738 12-19

METAL WORKING
SA MELTING
CRYSTAL STRUCTURE DEFECTS AND ROLLING POWDERED METALS AND ALLOYS
JPRS-17613 N64-11525 03-01

RELATIONSHIPS OF COERCIVE FORCES OF MAGNETICALLY-SOFT MATERIALS TO THE THICKNESS OF SHEET MADE FROM ROLLED POWDERS N64-11526 03-18

STRIP ROLLING & ELECTROSLAG RESMELTING MOLYBDENUM

JPRS-22285 N64-11600 03-17

RECOVERY BEHAVIOR OF COLD-WORKED METALS AT VARYING TEMPERATURES AND STRESSES
ASD-TDR-62-984 N64-12182 03-18

TITANIUM & TITANIUM ALLOYS - SHEET STAMPING, ALLOYING INFLUENCE ON STAMPABILITY, & SAFETY TECHNIQUES
JPRS-22746 N64-13019 04-18

FACILITY FOR PREVENTION OF SURFACE CONTAMINATION OF METALS DURING THERMAL-MECHANICAL CONVERSION TO SHEET AND BAR
MAB-99-LM N64-13950 05-10

DEPTH OF COLD HARDENING LAYER IN ALLOYS AND ELECTRIC SPARK WORKING OF NICKEL BASE ALLOYS
FTD-TT-62-1248/1&2 N64-16233 08-17

DEPTH OF COLD HARDENED LAYER OF ALLOYS UNDER VARIOUS MACHINING MODES N64-16234 08-17

ELECTRIC SPARK WORKING OF HEAT-RESISTANT NICKEL BASE ALLOYS N64-16235 08-17

PROCESSING METHOD FOR MOLTEN METALS USING ELECTRO-MAGNETIC FORCES
FTD-TT-63-495/1 N64-16372 08-17

METAL FORMING, MACHINING, & FINISHING COMPONENTS FABICATED FROM HEAT RESISTANT ALLOYS, STAINLESS STEEL, & TITANIUM ALLOYS
FTD-TT-63-344/1&2 N64-17076 09-17

THERMOMECHANICAL PROCEDURE OF PRESSURE WORKING HIGH MELTING HEAT RESISTANT MOLYBDENUM & CHROMIUM N64-17081 09-17

SHEET STAMPING HEAT RESISTANT ALLOYS & TITANIUM ALLOYS - METALWORKING N64-17085 09-17

METALWORKING - FASTENERS, BOLTS, & RIVETS FROM HEAT RESISTANT STEELS N64-17086 09-17

METALWORKING & FORMING OF BLADES N64-17087 09-17

MILLING WITH HIGH SPEED SPIRAL-TYPE CYLINDRICAL CUTTER N64-17100 09-17

MILLING, TURNING, & REAMING STAINLESS STEELS IN METAL FINISHING N64-17104 09-17

METAL FORMING, MACHINING, & FINISHING OF HEAT RESISTANT ALLOYS N64-17106 09-17

POWDER METALLURGY - METAL ROLLING N64-17208 09-18

VACUUM TREATMENT OF METALS
JPRS-24170 N64-18529 11-17

MELTING AND POURING OF RUST RESISTANT TOOL STEELS IN VACUUM INDUCTION FURNACES N64-18530 11-17

PRECISION CASTING OF HEAT RESISTANT ALLOYS IN VACUUM N64-18531 11-17

INFLUENCE OF VACUUM MELTING ON MECHANICAL PROPERTIES OF STEELS N64-18532 11-18

HEAT TREATMENT OF MAGNETICALLY SOFT ALLOYS IN VACUUM N64-18533 11-17

ELECTROFORMING REFRACTORY METAL ALLOYS
ERR-FW-217 N64-18948 11-17

GAS-FLAME BRAZING OR SOLDERING OF METALS - MATERIALS AND TECHNIQUES
JPRS-24345 N64-18977 11-17

METHODS OF MACHINING METALS BY PRESSING
FTD-TT-63-568/1&2 N64-19200 11-17

METAL WORKING TECHNOLOGY - EXTRUSION, ULTRASONIC GRINDING, CRYOGENIC STRETCH FORMING, AND SHEARING
AD-438735 N64-20289 13-17

VIBRATORY FINISHING OF EDGES OF PUNCHED METAL PARTS
JPRS-24468 N64-21693 15-17

BATH CLEANING METHOD FOR REMOVING SCALE ON ROLLED METAL
FTD-TT-62-1295/1 N64-22166 15-17

VOLTAGE REGULATOR FOR DIFFERENTIAL ELECTROLYTIC ETCHING OF METALS - METALLOGRAPHY
FTD-TT-64-19/1&2 N64-22176 15-17

DRAWING OF COPPER WIRE IN ULTRASONIC FIELD
FTD-TT-63-675/1&2 N64-22354 15-17

CASTING TECHNOLOGY
JPRS-25172 N64-22741 16-17

X-RAY ANALYSIS OF SHOT PEENING OF STEEL N64-23841 16-33

HIGH PRESSURE MELTING OF METALS
AD-600902 N64-25371 17-23

AUTOMATIC REGULATION OF CONTINUOUSLY OPERATING METAL WORKING FURNACES
JPRS-25288 N64-26058 18-06

CRITIQUE OF LITERATURE ON BRAZING
JPRS-26036 N64-27635 19-17

ELECTROSLAG METAL CASTING AND POTENTIAL USE AS FOUNDRY PRODUCTION METHOD N64-29036 21-18

BEND TRANSITION TEMPERATURE OF ARC-CAST WORKED, RECRYSTALLIZED, AND WELDED MOLYBDENUM AND MOLYBDENUM-TITANIUM ALLOY SHEET
NASA-TN-D-1869 N64-30997 22-18

METALLOGRAPHY
CF METALLURGY
VARIABLY CURING RESINS FOR MOUNTING METALLOGRAPHIC SAMPLES
ANL-6712 N64-11789 03-19

POINT-COUNT ANALYSIS OF IRON- AND COPPER-PLUTONIUM COMPOUNDS
RFP-331 N64-13300 04-18

THIN PLASTIC COATING FOR METALLOGRAPHIC PLUTONIUM SPECIMENS TO RETARD OXIDATION AND CONTAIN RADIOACTIVE CONTAMINATION
HW-79845 N64-15836 07-23

METALLOGRAPHIC AND FRACTURE STUDIES OF INFILTRATED TUNGSTEN NOZZLE INSERTS N64-16593 08-27

METALLOGRAPHIC EVALUATION OF TUNGSTEN SURFACE FINISH AND CONDITION PRODUCED BY ELOX AND ANOCUT MACHINING TECHNIQUES
A477 N64-17135 09-17

METALLOGRAPHY AND X-RAY DIFFRACTION STUDY OF SAMARIUM-TYPE INTERMEDIATE PHASE IN RARE EARTH BINARY SYSTEMS
DRI-2141 N64-17278 09-25

QUANTITATIVE METALLOGRAPHY OF HYDRIDE PHASE IN ZIRCALOY-2 PROCESS TUBES FROM NUCLEAR REACTOR
HW-74949 N64-19038 11-07

EXAMINATION OF RARE EARTH MANGANESE ALLOYS BY METALLOGRAPHIC AND X-RAY METHODS
TN-5 N64-20401 13-18

METALLOGRAPHIC AND RADIOGRAPHIC TECHNIQUES FOR EVALUATION OF CERAMIC NUCLEAR FUEL ELEMENTS
ORNL-3577 N64-22111 15-18

VOLTAGE REGULATOR FOR DIFFERENTIAL ELECTROLYTIC ETCHING OF METALS - METALLOGRAPHY
FTD-TT-64-19/1&2 N64-22176 15-17

METALLOGRAPHIC OBSERVATION OF DISLOCATION STRUCTURES IN QUENCHED, AGED, AND ETCHED ALLOY SAMPLES
FTD-TT-63-322/1&2&4 N64-22187 15-18

QUALITY OF ROLLED THREADS ON NICKEL ALLOY BLANK

DETERMINED BY METALLOGRAPHIC EXAMINATION
A737 N64-22582 15-17

METALLOGRAPHIC EXAMINATION OF NIOBIUM ALLOY CORE JOINTS
A741 N64-22585 15-18

METALLOGRAPHIC EXAMINATION OF TITANIUM-ZIRCONIUM MOLYBDENUM ALLOY SHEET
A747 N64-22589 15-17

METALLOGRAPHY AND AGING CHARACTERISTICS OF HASTELLOY-B
ORNL-2496 N64-23260 16-18

PLASTIC DEFORMATION EFFECT ON MECHANICAL PROPERTIES OF NICKEL ALLOYS & METALLOGRAPHY OF MOLYBDENUM
FTD-TT-62-1169/1&2&4 N64-23457 16-18

POLYGONIZATION IN MOLYBDENUM - HIGH TEMPERATURE METALLOGRAPHY N64-23459 16-18

HIGH SPEED CAMERA FOR METALLOGRAPHIC AND CRACK PROPAGATION STUDIES
ARL-64-69 N64-23969 16-18

HAFNIUM-TANTALUM EQUILIBRIUM DIAGRAM OBTAINED BY OPTICAL PYROMETRY, METALLOGRAPHY, DIFFERENTIAL THERMAL ANALYSIS, AND X-RAY DIFFRACTION
BM-RI-6521 N64-28624 20-18

METALLOSILOXANE POLYMER
CHEMICAL COMPOSITION, STABILITY, AND ELECTRICAL & MECHANICAL PROPERTIES OF POLYORGANOSILOXANES AND POLYORGANOMETALLIC SILOXANE POLYMERS N64-12807 04-07

ORGANIC SILICON POLYMERS THAT INCLUDE VARIOUS METALS - METALLOSILOXANE POLYMERS N64-12809 04-07

METALLOXANE POLYMER
ORGANIC POLYMERS WITH CHAINS OF OXYGEN AND OTHER INORGANIC ELEMENTS - METALLOXANE POLYMERS N64-12810 04-07

METALLURGY
SA FRACTOGRAPHY
SA POWDER METALLURGY
CF MATERIALS SCIENCE
CF METALLOGRAPHY
METALLURGY - RARE EARTH, HAFNIUM CARBIDE, THORIUM, URANIUM NITRIDE, & TUNGSTEN-RHENIUM ALLOYS
USBM-U-1082 N64-10253 01-18

REACTOR UTILIZATION AND ABSTRACTS OF CHEMISTRY, ENGINEERING, METALLURGY, AND PHYSICS RESEARCH
IS-700 N64-10257 01-01

CHEMICAL METALLURGY, FUEL CYCLES, CALORIMETRY, REACTOR SAFETY, & ENERGY CONVERSION
ANL-6687 N64-10395 01-07

EFFECT OF DISLOCATIONS & VACANCIES ON FATIGUE, BRITTLE FRACTURE, PLASTIC PROPERTIES, AND HEAT RESISTANCE OF METALS
JPRS-18817 N64-10789 02-18

CRITICAL DISLOCATION DENSITY NEAR GRAIN BOUNDARY OF METAL ASSOCIATED WITH FATIGUE FRACTURE - IRON ALLOYS N64-10790 02-18

X-RAY DIFFRACTION METHOD APPLIED TO DEFORMED METAL AND ALLOY TO REVEAL DISLOCATION STRUCTURE AND PLASTIC PROPERTIES N64-10791 02-18

ANNIHILATION OF VACANCIES DURING CREEP WITH REPLACEMENT BY NITROGEN, BORON, OR CARBON AS A FACTOR IN INCREASED HEAT-RESISTANCE IN STEEL N64-10792 02-18

CONFIRMATION OF BRITTLE FRACTURE THEORY BY OBSERVATION OF DISLOCATIONS IN CAST AND DEFORMED CHROMIUM SPECIMENS N64-10793 02-18

PROBLEMS IN METALLURGY AND PHYSICS OF METALS AND METAL ALLOYS
FTD-TT-62-1290/1&2&4 N64-11144 02-18

CHANGES IN MODULUS OF ELASTICITY AND TEMPERATURE IN FERROMAGNETIC SOLID SOLUTIONS ON NICKEL BASE ALLOY DURING HEAT TREATMENT N64-11145 02-18

BRITTLENESS IN STEEL IN LOW-TEMPERATURE TEMPERING N64-11146 02-18

ELECTRON MICROPHOTOGRAPHIC STUDY OF BRITTLE FRACTURE & FAILURE PROCESS IN STEEL AND IRON N64-11147 02-18

AUSTENITIC STEEL TRANSFORMATION IN MIDDLE REGION - DIFFUSION REDISTRIBUTION OF CARBON N64-11148 02-18

REVERSE MARTENSITIC TRANSFORMATION AND THERMODYNAMIC EQUILIBRIUM N64-11149 02-18

SOVIET CONFERENCES ON METALLURGY - PROCESSES, DREDGES, HEAVY METAL CHLORIDE SOLUTIONS, WELDING, RARE EARTHS, POWDER, AND RELAXATION PHENOMENA
JPRS-21636 N64-11264 02-18

METALLURGICAL EFFECTS OF CONVENTIONAL & EXPLOSIVE STRAIN RATES ON METAL ALLOYS
NASA-CR-52875 N64-11330 02-18

ELECTROSLAG REMELTING PROCESS FOR HIGH QUALITY STEEL & ALLOY PRODUCTION
JPRS-22217 N64-11419 02-17

THEORETICAL BASIS FOR SYNTHESIS OF GLASS-CERAMIC MATERIALS FROM METALLURGICAL SLAG
FTD-TT-63-753/1&2 N64-11544 03-19

NONFERROUS METALLURGY - TELLURIUM AND POWDERED ALUMINUM
JPRS-17727 N64-11826 03-18

MANUFACTURING, MECHANICAL, AND PLASTICITY TESTING OF POWDERED METAL - IRON-COPPER ALLOY
JPRS-22247 N64-11870 03-18

VACUUM TREATMENT FOR HIGH QUALITY, LOW SILICON BALL BEARING STEEL IN METALLURGICAL FACTORY
JPRS-22390 N64-11921 03-17

STRUCTURAL ANALYSIS OF BRAZED AIRFRAME TESTS - METALLURGY
A245 N64-11925 03-34

WELDING TESTS OF INCONEL AT ROOM TEMPERATURE BY AGE CONDITION METHOD
A249 N64-11927 03-18

METALLURGICAL EVALUATION, HYDROBURST AND STATIC TESTING OF HELICAL WRAPPED ROCKET MOTOR CASES N64-11962 03-34

METALLURGY OF TERNARY ALLOYS OF NIOBIUM-TUNGSTEN-ZIRCONIUM, AND OF NIOBIUM-MOLYBDENUM-ZIRCONIUM
JPRS-22593 N64-12358 03-18

METALLURGICAL DEVELOPMENTS RELATED TO HARD ALLOYS
JPRS-20277 N64-12892 04-01

CARBON AND HYDROGEN FURNACE DESIGNS FOR REDUCTION OF TUNGSTEN FOR INCLUSION IN HARD ALLOYS - METALLURGY N64-12894 04-17

METALLURGY OF NICKEL & ITS ALLOYS
IPST-969 N64-13023 04-18

DESIGN, METALLURGY, RADIATION EFFECT, AND FUEL PROCESSING OF MOLTEN-SALT REACTOR
ORNL-3529 N64-13137 04-23

NUCLEAR ENGINEERING - REACTOR PHYSICS, CHEMISTRY, METALLURGY, & ENGINEERING RESEARCH
BNL-799/S-64/ N64-13201 04-23

PRODUCTION AND METALLURGICAL PROPERTIES OF ZIRCONIUM, NIOBIUM, MOLYBDENUM, AND IRON
JPRS-22697 N64-13726 05-01

IODIDE REFINING OF ZIRCONIUM AND ZIRCONIUM IODIDE FOR REDUCTION OF NONMETALLIC IMPURITIES - CARBON, OXYGEN, NITROGEN, AND HYDROGEN N64-13727 05-17

HYDROGEN AND NITROGEN EFFECT ON CORROSION RESISTANCE OF ZIRCONIUM METAL IN WATER VAPOR
N64-13728 05-07

OXIDE FILM ON ZIRCONIUM-NIOBIUM AND ZIRCONIUM-NIOBIUM-MOLYBDENUM ALLOYS IN AIR
N64-13729 05-18

MOLYBDENUM SINGLE CRYSTAL GROWTH FROM GASEOUS PHASE OF MOLYBDENUM CHLORIDE BY THERMAL DISSOCIATION N64-13730 05-25

DISTRIBUTION OF CARBON, IRON, LEAD, AND TUNGSTEN ADDITIONS TO NIOBIUM AFTER ZONE REFINING BY ELECTRIC ARC METHOD N64-13731 05-17

ELECTRON DIFFRACTION AND X-RAY PHOTOGRAPHY OF OXIDE FILM ON NIOBIUM AFTER CONTROL OXIDATION
N64-13732 05-23

OXIDATION KINETICS OF NIOBIUM IODIDE USING IODIDE REFINING AND ELECTRON BEAM REMELTING METHODS
N64-13733 05-07

AUSTENITIC CHROMIUM-NICKEL STEEL REACTION WITH LIQUID LITHIUM N64-13734 05-07

CORROSION RESISTANCE OF IRON IN LITHIUM
N64-13735 05-07

CORROSION TEST OF TITANIUM AND TITANIUM-ALUMINUM ALLOY IN LIQUID LITHIUM N64-13736 05-07

DURABILITY AND INTERNAL FRICTION OF SINTERED ALUMINUM POWDER CRYSTALS DURING CYCLIC HEAT TREATMENT N64-13737 05-18

X-RAY PHOTOGRAPHIC STUDY OF BERYLLIUM SINGLE CRYSTAL COMPRESSION AND DEFORMATION AFTER ZONE RECRYSTALLIZATION N64-13738 05-18

INSTALLATION FOR X-RAY STRUCTURAL ANALYSIS OF RADIOACTIVE MATERIALS AND RADIATION DISRUPTION IN ALLOY AND METAL CRYSTAL LATTICES
N64-13739 05-23

TUNGSTEN METALLURGY RESEARCH - MELTING & CASTING, JOINING, ROCKET NOZZLE FABRICATION, AND HIGH TEMPERATURE REACTIONS
DMIC-193 N64-13845 05-18

REACTOR RESEARCH - PHYSICAL & CHEMICAL METALLURGY OF REACTOR METALS & MATERIALS
HW-78962 N64-14226 06-01

METALLURGICAL ANALYSIS AND STRUCTURAL REPAIR OF 120-INCH DIAMETER PRESSURE VESSEL
LPC-609-P-8 N64-14784 06-18

ELECTRON BEAM FURNACE FOR MELTING AND PURIFYING REACTIVE AND REFRACTORY METALS - METALLURGY
BM-RI-6341 N64-14931 06-18

PHYSICS, BIOSCIENCES, MATHEMATICS, AND METALLURGY
N64-15563 07-01

PHYSICAL METALLURGY OF 18 PERCENT NICKEL MARAGING STEELS
DMIC-194 N64-15709 07-18

RARE EARTH ALLOYS, HAFNIUM CARBIDE, THORIUM ALLOY, MELTING & CASTING METHODS, AND TUNGSTEN-RHENIUM TUBING DEVELOPMENTS
USBM-U-1091 N64-15838 07-18

MINERALOGICAL AND METALLURGICAL ENGINEERING
MITS-51 N64-16019 07-19

METALLURGICAL EXAMINATION OF FIRED TUNGSTEN ROCKET NOZZLE INSERTS N64-16591 08-27

METALLURGICAL EXAMINATION OF TUNGSTEN ROCKET NOZZLE INSERTS N64-16592 08-27

PHYSICAL METALLURGY OF SOLID SOLUTIONS, ALLOYS, AND CRYSTALS
FTD-TT-63-510/1&2&4 N64-16602 08-18

THE K-STATE IN ALLOYS - METALLURGY
N64-16603 08-18

INTRAPHASE DECOMPOSITION AND ITS EFFECT ON ALLOYS
N64-16604 08-18

METALLURGICAL EXAMINATION OF COATED TITANIUM BOLT AND SHEET
A466 N64-16784 08-18

METALLURGICAL STUDY OF METALS AND ALLOYS FOR AVIATION ENGINEERING
FTD-TT-62-1678/1&2 N64-16959 09-18

SOVIET SHEET ROLLING TECHNOLOGY
JPRS-23596 N64-17021 09-17

CHEMICAL COMPOSITION & PROPERTIES CHARACTERISTIC TO NICKEL-ALLOY METALLURGY N64-17079 09-17

PHYSICAL METALLURGY, REACTOR METALS, CHEMICAL METALLURGY, & MATERIALS ENGINEERING
HW-79766 N64-17503 09-18

DEFORMATION EFFECTS ASSOCIATED WITH CREEP AND FATIGUE LOADING ON METALS
RID-TDR-63-4149 N64-17858 10-18

MECHANICAL AND METALLURGICAL PROPERTIES OF MARAGING STEEL PLATES FOR SPACE LAUNCH VEHICLES
NASA-CR-53416 N64-18106 10-18

METALLURGICAL EFFECTS OF EXPLOSIVE STRAIN RATES ON MECHANICAL AND PHYSICAL PROPERTIES OF METAL ALLOYS
NASA-CR-53640 N64-18513 10-18

METALLURGICAL PROCESSING OF TANTALUM-TUNGSTEN ALLOY EXTRUSION SURFACES
ASD-IR-7-783/3/ N64-18576 11-17

OPTICAL PROPERTIES OF METALS
E-T-C-63-1 N64-18766 11-23

STRUCTURAL CHANGES IN ALUMINA IN MOLTEN SINTERED ALUMINUM POWDER - METALLURGY
EUR-589.F N64-19040 11-18

METALLURGY OF BERYLLIUM IN AEROSPACE TECHNOLOGY
N64-19046 11-18

METALLURGICAL, PHYSICAL, CHEMICAL, & MISCELLANEOUS RESEARCH N64-19077 11-01

TITANIUM METALLURGICAL EQUIPMENT USED IN NICKEL PRODUCTION
JPRS-24269 N64-19277 11-18

METALLURGICAL DEFECTS IN ALUMINUM EXTRUSIONS
NAA-SR-8262 N64-19286 11-18

MECHANICAL AND METALLURGICAL PROPERTIES OF STEEL EXTRUSION FOR F-111 AIRCRAFT
FTDM-3234 N64-20069 13-18

METAL WORKING TECHNOLOGY - EXTRUSION, ULTRASONIC GRINDING, CRYOGENIC STRETCH FORMING, AND SHEARING
AD-438735 N64-20289 13-17

PHYSICS, CHEMISTRY, ELECTRONICS, AND METALLURGY RESEARCH
AD-435880 N64-20453 13-23

METALLURGY OF ALLOYS
JPRS-24761 N64-21187 14-18

METALLURGICAL PROPERTIES OF HIGH STRENGTH STRUCTURAL MATERIALS FOR SHIP HULLS
NRL-6086 N64-21226 14-18

AGE HARDENING PROCESS FOR ALLOY DEFORMATION RESISTANCE
RSIC-174 N64-21507 15-18

INVESTIGATION OF METEORIC MATTER ALONG FLIGHT TRAJECTORY OF MARS I INTERPLANETARY STATION USING PIEZOELECTRIC TRANSDUCERS
N64-21639 15-29

METALLURGICAL RESEARCH IN ALLOY MELTING AND REFINING, WELDING, AND SURFACE TREATMENT AND

CORROSION N64-22107 15-18

HIGH PRESSURE, HIGH TEMPERATURE METALLURGY
ASD-TDR-63-90, VOL. II N64-22266 15-18

PHOTOGRAPHIC EVALUATION OF BRAZED METALLURGICAL HONEYCOMB SANDWICH PANEL JOINTS
A729 N64-22575 15-18

PHYSICAL METALLURGY OF CERMET MATERIALS
N64-23467 16-18

PHYSICAL METALLURGY OF CERMET INTERACTIONS WITH HIGH-MELTING METAL COMPOUNDS N64-23468 16-18

ELECTRIC DISCHARGE TREATMENT OF METALS - CRYSTAL STRUCTURE DEFECTS, RESIDUAL STRESSES AND MACHINING METHODS
JPRS-25054 N64-23501 16-18

METALLURGICAL STUDY OF TUNGSTEN CARBIDE-COBALT AND NICKEL-ALUMINUM ALLOYS
FTD-MT-63-199 N64-24246 17-18

ELECTRONIC MICROSCOPE FOR METALLURGY
FTD-TT-64-154/1&2 N64-25447 17-09

METALLURGICAL RESEARCH WITH REACTORS - REACTOR MATERIAL DEVELOPMENT
HW-81269 N64-25863 18-18

METALLURGY, COMPOSITION, AND MECHANICAL PROPERTIES OF DISPERSION STRENGTHENED TANTALUM BASE ALLOYS
NASA-CR-54105 N64-25949 18-18

METALLURGY AND PHYSICAL PROPERTIES OF HEAT RESISTANT REFRACTORY ALLOYS
FTD-MT-63-206 N64-26093 18-18

METALLOGRAPHIC STUDY OF MICROSCOPIC DEFECTS IN ZIRCONIUM-MOLYBDENUM ALLOY PANELS
A744 N64-26216 18-18

SOLID STATE PHYSICS, PHYSICAL METALLURGY, AND CHEMISTRY OF SOLIDS
NASA-CR-58044 N64-26365 18-25

METALLURGY - RARE EARTH ALLOY DEVELOPMENT, HAFNIUM CARBIDE CASTING, THORIUM ALLOY SYSTEMS, COLD-MOLD INDUCTION MELTING, & URANIUM ALLOY SYSTEMS
USBM-RC-1122 N64-26482 18-18

METALLURGICAL BONDING BETWEEN PLASMA-SPRAYED TUNGSTEN AND HOT TUNGSTEN SUBSTRATES
N64-27016 19-17

METALLURGICAL TECHNOLOGY OF BRAZING AND WELDING OF BERYLLIUM
NASA-TT-F-9021 N64-27230 19-18

CORROSION-RESISTANCE, WELDABILITY, HEAT TREATMENT, AND DIFFUSION RATE TESTING OF ALUMINUM-MAGNESIUM-SILICON, ALUMINUM-MAGNESIUM, AND ALUMINUM-ZINC-MAGNESIUM ALLOYS
JPRS-25642 N64-27265 19-18

METALLURGICAL EXAMINATION OF INTERMETALLIC DIFFUSION BETWEEN ZIRCONIUM-NIOBIUM ALLOY AND TYPE 316 STAINLESS STEEL
CNLM-5232 N64-27419 19-18

PHYSICS, CHEMISTRY, MATHEMATICS, ENGINEERING, METALLURGY, AND CERAMICS
AD-601472 N64-27497 19-01

METALLURGICAL DATA OF REFRACTORY ELEMENTS
N64-27581 19-18

FLAT ROLLING OF REFRACTORY METAL - METALLURGY
N64-27596 19-18

METALLURGICAL TECHNOLOGY OF REFRACTORY ELEMENT MILLING N64-27597 19-18

METALLURGICAL JOINING OF REFRACTORY ELEMENTS FOR POWER PLANTS AND NOZZLE THROAT OF ROCKETS
N64-27601 19-18

PHASE DIAGRAM OF URANIUM-PLUTONIUM AT TEMPERATURES BELOW 635-DEG C WITH LESS THAN 50 ATOMIC PERCENT CARBON
ANL-6435 N64-28110 20-18

METALLURGICAL HEAT TREATMENT TECHNIQUES & FURNACES
JPRS-25901 N64-28241 20-17

METALLURGICAL HEAT TREATMENT TECHNIQUES
N64-28242 20-17

IMPROVEMENTS IN METALLURGICAL HEAT TREATMENT FURNACES N64-28243 20-17

MECHANIZATION AND AUTOMATION IN FERROUS METALLURGY
JPRS-26280 N64-28399 20-18

PROPRIETARY ALUMINUM BRONZE - SMELTING, POURING TECHNIQUE, CASTING, HEAT TREATMENT, PROPERTIES AND APPLICATIONS
JPRS-26322 N64-28427 20-18

FLUID DYNAMICS, SUPERSONIC FLOW, GAS FLOW, METALLURGY, ELASTICITY, SHOCK WAVES, STRESS, DEFORMATION, AND SPACE VEHICLE REENTRY
JPRS-26019 N64-28469 20-01

CONFERENCES ON METALLURGY - WELDING, CREEP, HEAT TREATMENT, ELECTRODEPOSITION, DUCTILITY, HIGH TEMPERATURE PHYSICS, CALORIMETRY
JPRS-24651 N64-28734 20-18

PRESSURE EFFECT ON METALLURGICAL PHENOMENA - TRANSFORMATIONS IN THALLIUM ALLOY SYSTEMS
NASA-CR-58492 N64-28829 20-18

SETTLED BED REACTOR, REACTOR PHYSICS, METALLURGY, AND ENGINEERING
BNL-841/S-66/ N64-29944 21-23

METALLURGICAL FACTORS CONTROLLING DUCTILE-BRITTLE PROPERTY OF BERYLLIUM
ASD-TDR-62-509, VOL. V N64-29972 21-18

METALLURGIC CHARACTERISTICS OF HIGH STRENGTH STRUCTURAL MATERIALS
NRL-6137 N64-30573 22-18

JOURNAL ON NONFERROUS METALLURGY
FTD-MT-64-12 N64-30798 22-18

METALLURGY, MECHANICAL PROPERTIES, AND WELDING PROPERTIES OF MARAGING STEEL
ASD-TDR-62-996 N64-30923 22-18

METALLURGY OF REACTOR METALS - RADIATION EFFECTS ON STRUCTURAL AND FISSIONABLE MATERIALS
HW-82651 N64-31027 22-18

ENGINEERING AND CONTINUUM MECHANICS OF HIGH STRENGTH METALLURGIC MATERIALS
TR-7 N64-31195 22-18

NONFERROUS METALLURGY
FTD-MT-64-14 N64-31404 23-07

PRODUCTION OF TURBINE BLADES BY INVESTMENT CASTING FROM REFRACTORY ALLOYS N64-31516 23-17

NUCLEAR RESEARCH, INCLUDING WORK ON HIGH TEMPERATURE MATERIALS, ZIRCONIUM METALLURGY, HIGH FLUX ISOTOPE REACTOR, GAS COOLED REACTOR, AND THORIUM UTILIZATION PROGRAM
ORNL-3670 N64-32700 24-23

RESEARCH IN PHYSICS, CHEMISTRY, MATHEMATICS, METALLURGY, RADIO, AND SOUND
AD-602948 N64-32786 24-18

SOLID STATE PHYSICS - THEORY, CRYSTALS, METALS, NONMETALS, AND RADIATION METALLURGY
ORNL-3676 N64-32925 24-23

TITANIUM ALLOY FOR HULLS OF DEEP-DIVING VEHICLES - PHYSICAL METALLURGY & DEVELOPMENT
MEL-194/64 N64-33081 24-18

METASTABLE ATOM
EFFECTIVE ELECTRIC POLARIZABILITIES OF METASTABLE ARGON IN SELECTED MAGNETIC SUBSTATES

AD-424934 N64-12831 04-23

DEACTIVATION OF NEON METASTABLES BY INELASTIC COLLISIONS WITH HYDROGEN
AFOSR-64-0571 N64-25742 17-19

OBSERVATIONS OF METASTABLE STATE OF LITHIUM N64-26024 18-23

LOW ENERGY ELECTRON SCATTERING FROM METASTABLE HELIUM N64-27555 19-23

VELOCITY DEPENDENCE OF TOTAL CROSS SECTION FOR METASTABLE HELIUM SCATTERING BY HELIUM, ARGON, AND KRYPTON N64-27557 19-23

SPECTROPHOTOMETRIC DETECTION OF METASTABLE HELIUM ATOMS EXCITED BY ULTRAVIOLET RADIATION
RPL-TDR-64-96 N64-31076 22-23

EXCITATION OF METASTABLE ATOMS AND MOLECULES BY ELECTRON IMPACT ON THERMAL MOLECULAR BEAM
AFCRL-64-698 N64-33267 24-12

METEOR
SA ASTEROID
SA SPORADIC METEOR
RADAR OBSERVATION OF METEORS
JPRS-18986 N64-10809 02-05

RADAR OBSERVATIONS OF METEOR ACTIVITY AND METEOR ROLE IN E-LAYER OF IONOSPHERE N64-10810 02-05

CYBERNETICS AND AUTOMATION IN TERMS OF PRODUCTION PROCESSES N64-11060 02-16

OPTICAL RADAR OBSERVATIONS AND UPPER ATMOSPHERE ECHOES FROM METEOR DISINTEGRATION, AND ESTIMATED MATTER INFLUX
NASA-CR-55057 N64-12028 03-05

ANOMALOUS SOUNDS AND ELECTROMAGNETIC EFFECTS ASSOCIATED WITH FIREBALL ENTRY - METEOR ASTRONOMY
RM-3724-ARPA N64-12681 04-09

RADAR INVESTIGATION OF METEORS AT HIGH RATES OF DETECTION
NASA-TN-D-2244 N64-13157 04-05

METEOR ASTRONOMY - OBSERVATION METHODS & RESULTS
JPRS-23047 N64-14528 06-05

LUMINOUS EFFICIENCY OF METEORS
NASA-CR-55904 N64-16723 08-05

MICROPULSATION FROM METEORS, NUCLEAR EXPLOSION, AND MANMADE SOURCES
AD-433505 N64-17634 09-12

SIMULATION OF METEORIC ENTRY INTO EARTH ATMOSPHERE USING STAINLESS STEEL PELLETS
NASA-TN-D-2268 N64-19060 11-30

FLIGHT TEST OF TRAILBLAZER I REENTRY VEHICLE AND PRODUCTION OF ARTIFICIAL IRON METEORS
NASA-TN-D-2270 N64-19227 11-30

SIMULATION OF METEOROID IMPACT BY IMPINGEMENT OF FOCUSED PULSE OF ENERGY FROM LASER ON TARGET SURFACE
NASA-CR-54029 N64-19788 12-10

METEOROID CONCENTRATION BY EARTH GRAVITATIONAL FIELD
P-2832 N64-19875 12-23

RADAR DATA OF METEOR DISTRIBUTION AROUND EARTH ORBIT N64-22080 15-29

METEOR MATERIAL ALONG FLIGHT TRAJECTORY OF MARS 1 SPACECRAFT DETECTED BY PIEZOELECTRIC SENSORS
NASA-TT-F-8570 N64-23122 16-29

METEOROID PUNCTURE DETECTION BY MEASUREMENT OF VISIBLE AND INFRARED RADIATION PRODUCED BY HYPERVELOCITY IMPACT PUNCTURE FLASH
NASA-CR-56562 N64-23518 16-30

METEOR HEIGHT DEPENDENCE ON ATMOSPHERIC DENSITY, TEMPERATURE, & SOLAR ACTIVITY
FTD-TT-62-1731/1&4 N64-25444 17-29

PHYSICS OF METEOR ENTRY - METHODS FOR OBTAINING MASS AND DENSITY OF METEOROIDS, AND LUMINOUS FLIGHT REGIMES
P-2902 N64-25650 17-29

OPTICAL RADAR EXPERIMENTS AND METEORIC FRAGMENTATION N64-25736 17-29

RADIO ECHO OBSERVATION OF METEORS AT 68-CM WAVELENGTH
AD-439354 N64-25882 18-09

EFFECT OF EARTH SHADOW ON TEMPERATURE OF IRON METEOROID BEFORE ENTERING EARTH ATMOSPHERE
NASA-RP-258 N64-26078 18-05

OBTAINING AERODYNAMIC HEATING RESULTS FROM ANALYSIS OF METEOR FLIGHT DATA
NASA-TN-D-2069 N64-26305 18-30

ELECTROMAGNETIC AND CORPUSCULAR RADIATION, METEOROID FLUX, AND PLANETARY ATMOSPHERES
NASA-CR-58136 N64-26370 18-29

DISTRIBUTION OF METEORS ACCORDING TO STELLAR MAGNITUDE
NASA-TT-F-8915 N64-26767 18-05

METEOR RADAR DATA N64-28683 20-05

METEOR RADAR DATA N64-28684 20-05

METEOR RADAR DATA N64-28685 20-05

METEOR RADAR DATA - HOURLY RATE, DURATION DISTRIBUTION, DUTY CYCLE, RADAR DISTANCE, AZIMUTH DISTRIBUTION, AND DRIFTING ECHOES N64-28686 20-05

SIZE DEPENDENT DISTRIBUTION OF METEOR VELOCITY
NASA-CR-59201 N64-33212 24-05

METEOR HAZARD
MECHANICS AND TECHNOLOGY - GYROSCOPIC SYSTEMS AND METEOR SHIELDING
FTD-TT-64-413/1&2&4 N64-29292 21-23

DESIGN OF PROTECTIVE METEOR SHIELDS N64-29295 21-34

METEOR SHOWER
RADIO ECHO OBSERVATION OF FIVE NIGHTTIME METEOR SHOWERS
REPT.-341 N64-28679 20-05

HIGH DETECTION RATE RADAR SYSTEMS FOR DELINEATION OF METEOR RADIANTS
NASA-CR-58685 N64-30502 22-05

MOON EFFECT ON TERRESTRIAL METEOR RATES N64-33056 24-05

METEOR TRAIL
DIRECTIONAL SCATTERING OF ULTRAHIGH FREQUENCY RADIO SIGNALS BY METEOR TRAILS
JPRS-17555 N64-10563 01-05

RADAR INDICATING/RECORDING DEVICE FOR STUDY OF RADIO WAVE DISPERSION BY METEOR TRAILS N64-10811 02-05

METEOR TRAIL RADAR ECHOES
AFCRL-63-787 N64-12266 03-29

OBSERVATION OF DRIFTS OF METEORIC TRACES TO DETERMINE ATMOSPHERIC CURRENTS AT 80 TO 100-KM
FTD-TT-63-845/1&2 N64-12843 04-24

METEOR TRAIL EXPANSION ATTRIBUTED TO TURBULENT DIFFUSION N64-24471 17-21

METEOR TRAIL RADAR REFLECTION SETS FOR OBTAINING WIND-DENSITY DATA N64-24472 17-21

TURBULENT MOTIONS IN METEOR ZONE USING METHOD OF

RADAR LOCATION OF METEOR TRAILS
NASA-TT-F-8924 N64-27133 19-12

POLARIZATION EFFECT ON RADIO SIGNALS SCATTERED BY METEOR TRAILS
NASA-TT-F-8962 N64-30855 22-05

ALTITUDE DISTRIBUTION OF METEOR TRAILS
NASA-TT-F-8981 N64-33388 24-12

RADAR DETECTION SYSTEM FOR DELINEATING METEOR RADIANTS N64-33919 24-08

METEORITE
SA ASTEROID
SA CARBONACEOUS METEORITE
SA CHONDRITE
SA ELEMENT ABUNDANCE
SA IRON METEORITE
SA METEORITIC COMPOSITION
SA MICROMETEORITE
SA MURRAY METEORITE
SA ORGUEIL METEORITE
SA STONY METEORITE
SA TUNGUSK METEORITE
EQUATIONS FOR METEORITES THAT COLLIDE WITH EARTH AND MOON N64-11392 02-05

METEORITES AND TEKTITES
NASA-CR-55368 N64-16215 08-05

FOSSIL GLASSES PRODUCED BY IMPACT OF METEORITES AND ASTEROIDS WITH PLANET EARTH N64-16733 08-05

NATURE AND ORIGIN OF METEORITES, ZODIACAL LIGHT, AND ASTEROIDS N64-21130 14-05

STUDY OF METEORITES IN USSR N64-24655 17-05

ORIGIN OF METEORITES DURING SOLAR SYSTEM FORMATION N64-24767 17-05

RADIOACTIVE DATING OF METEORITES N64-25057 17-05

SPUTTERING OF METEORITES BY POSITIVE HELIUM, NEON, AND ARGON IONS N64-28302 20-23

CHANGES IN ORBITAL ELEMENTS OF STATIONARY SATELLITES DUE TO METEOR IMPACT N64-28944 20-29

HYDROCARBON ANALYSIS AS MEANS OF DETECTING LIFE IN SPACE - ABIOTIC, BIOLOGICAL SEDIMENTAL, AND METEORITIC ALKANES
NASA-CR-58500 N64-29202 21-16

AGE AND EVOLUTION OF METEORITIC AND TERRESTRIAL MATTER - APPLICATION OF RADIOCHEMICAL METHODS AND ISOTOPIC ANALYSIS FOR AGE DETERMINATIONS
FTD-MT-64-282 N64-30811 22-29

AGRICULTURAL METEOROLOGY, METEORITES, AND USE OF SPECTROPHOTOMETRIC DATA IN COMMUNIST CHINA
JPRS-27009 N64-34006 24-07

METEORITIC COMPOSITION
HELIUM CONTENT OF METALLIC METEORITES N64-11394 02-05

ISOTOPIC COMPOSITION OF GERMANIUM IN METEORITES N64-13010 04-05

ALTERATIONS IN PETROLOGICAL COMPOSITION AND ARGON EMPLACEMENT BY ARTIFICIAL SHOCK OF BJURBOLE CHONDRITE IN ARGON ATMOSPHERE
NASA-CR-55365 N64-14269 06-05

ABUNDANCE OF RARE EARTH ELEMENTS, YTTRIUM AND SCANDIUM, IN NAKHLITIC ACHONDRITES - METEORITE COMPOSITION N64-17561 09-05

RARE EARTH, YTTRIUM, AND SCANDIUM ABUNDANCES IN METEORITIC AND TERRESTRIAL MATTER
NASA-CR-50173 N64-18322 10-05

CHEMICAL COMPOSITION OF CHONDRITES AND ORIGIN OF METEORITES N64-19497 12-05

INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS OF ELEMENT ABUNDANCE IN METEORITES
NASA-CR-53776 N64-19602 12-05

ZIRCONIUM ABUNDANCES IN METEORITES & IMPLICATIONS TO NUCLEOSYNTHESIS
NASA-CR-56189 N64-20825 14-05

TRITIUM DETERMINATIONS IN ATMOSPHERIC GASES AND METEORITES
AFCRL-64-233 N64-21907 15-07

OPTICAL ACTIVITY OF ORGANIC MATTER SAPONIFIED FROM ORGUEIL CARBONACEOUS METEORITE N64-22489 15-05

METEORITE MICROSTRUCTURES AND ORGANIC MATTER IN CARBONACEOUS METEORITE
NASA-CR-56535 N64-22796 16-07

CHEMICAL COMPOSITION OF SUN, EARTH, AND METEORITES N64-24768 17-29

METEORITES - AGE, HISTORY, AND COMPOSITION
NASA-TT-F-100 N64-25056 17-05

CHEMICAL STUDIES OF METEORITIC MATERIALS AT ALL HISTORICAL STAGES N64-25058 17-05

X-RAY ANALYSIS OF METEORITIC COMPOSITION N64-25060 17-05

DISTRIBUTION OF GERMANIUM & TIN IN METEORITES N64-25743 17-29

ORGANIC AND INORGANIC CONSTITUENTS OF CARBONACEOUS AND OTHER SELECTED STONY METEORITES N64-26869 18-05

ELEMENTAL ABUNDANCES IN METEORITIC AND TERRESTRIAL MATTER - INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS
NASA-CR-59018 N64-32896 24-12

CHEMICAL COMPOSITION OF METEORITES FOUND IN CHINA N64-34008 24-07

METEORITIC DAMAGE
SYSTEM FOR DETECTION OF MICROMETEOROID PENETRATION DAMAGE AND INFRARED OR VISIBLE RADIATION DAMAGE TO SPACE VEHICLE
NASA-CR-58528 N64-28883 20-33

SHOCK WAVE AND METEORITIC DAMAGE CONTROL IN SELF-SEALING STRUCTURES OF SPACE VEHICLES
NASA-CR-120 N64-32434 23-34

METEOROID
RIGID AND FOLDABLE METEOROID PROTECTION SYSTEMS FOR SPACE VEHICLES N64-10114 01-32

METEOR BUMPER FOR PROTECTION AGAINST HYPERVELOCITY IMPACT N64-13546 05-34

DAILY FORECASTING OF JET STREAM POSITION
JPRS-23754 N64-17553 09-21

OPERATION OF CAPACITOR TYPE MICROMETEOROID DETECTOR
NASA-CR-56316 N64-27388 19-15

SYSTEM FOR DETECTION OF MICROMETEOROID PENETRATION DAMAGE AND INFRARED OR VISIBLE RADIATION DAMAGE TO SPACE VEHICLE
NASA-CR-58528 N64-28883 20-33

METEOROID PROTECTION FOR SPACE POWER SYSTEMS
NASA-TM-X-52051 N64-32789 24-33

DESIGN DATA FROM PENETRATION BALLISTICS TESTS FOR INTERPLANETARY SPACECRAFT METEOROID PROTECTION
NASA-CR-54205 N64-33177 24-32

DOUBLE-CAPACITOR COINCIDENCE-DISCHARGE SENSOR FOR MICROMETEOROID PENETRATION DETECTION
NASA-TM-1037 N64-34016 24-15

METEOROID HAZARD
METEOROID HAZARD TO THIN STAINLESS STEEL SKIN - EXPLORER XIII SATELLITE PENETRATION RATE DATA

NASA-TN-D-1986 N64-10182 01-29

PHENOMENA OF HYPERVELOCITY IMPACT INCLUDING METEOROID HAZARDS
NASA-CR-55266 N64-13393 04-23

SPACE FLIGHT IN METEORIC ENVIRONMENT - BIBLIOGRAPHY
CARDE-TM-720/63 N64-14249 06-29

ESTIMATION OF TOLERANCE OF ALUMINUM AND STEEL WALLS OF SPACE VEHICLE TO METEOROIDS AT 100-500 KILOMETERS ABOVE EARTH SURFACE
NASA-TN-D-1996 N64-14391 06-05

METEOROID PENETRATION OF SPACE VEHICLES
N64-14672 06-05

HYPERVELOCITY IMPACT DATA FOR METEOROID PROTECTION
AE62-0092 N64-14899 06-02

STRUCTURES, MATERIALS SCIENCE, RELIABILITY, AND METEOROID HAZARDS N64-16004 07-34

MICROMETEOROID HAZARDS MEASURED BY EXPLORER XVI SATELLITE
NASA-TN-X-949 N64-16692 08-32

MICROMETEOROID PENETRATION EXPERIMENTS AS SINGLE-SAMPLING LIFE-TEST SAMPLING PLANS
NASA-TN-D-1989 N64-17153 09-23

BIBLIOGRAPHY - METEOROID HAZARD TO SPACE VEHICLES IN NEAR EARTH ENVIRONMENT
SB-63-58 N64-17331 09-05

HYPERVELOCITY IMPACT STUDIES - METEOROID HAZARD TO AEROSPACE MATERIALS AND STRUCTURES
N64-19363 12-23

FIRE AND FLASH HAZARDS FROM METEOROID PENETRATION OF SPACE CABIN N64-20749 14-16

METEOROID HAZARD TO LIQUID HYDROGEN STORAGE TANKS - PROTECTIVE MEASURES N64-25026 17-26

BLAST WAVE THEORY APPLIED TO METEOROID IMPACTS WITH SPACE VEHICLES
NASA-CR-58059 N64-26362 18-05

EXPLORER XVI SATELLITE - METEOROID HAZARD TO THIN STAINLESS STEEL SKIN MATERIAL
NASA-TN-D-2445 N64-27204 19-32

HYPERVELOCITY IMPACT DAMAGE CHARACTERISTICS IN ARMORED SPACE RADIATOR TUBES - METEOROID HAZARD
NASA-TN-D-2472 N64-28985 20-33

NASA LAUNCHING OF SATELLITE TO GATHER INFORMATION ON METEOROID HAZARDS IN SPACE FLIGHT
N64-33063 24-32

METEOROLOGICAL INSTRUMENT
SA ANEMOMETER
SA HYGROMETER
SA WEATHER STATION
VARACTOR DIODE PARAMETRIC AMPLIFIER FOR USE WITH METEOROLOGICAL INSTRUMENTS
AFCRL-63-761 N64-13597 04-12

LIGHTWEIGHT BALLOON-BORNE TRANSOSONDE - METEOROLOGICAL INSTRUMENTS
NRL-5921 N64-16974 09-08

SYNCHRONOUS METEOROLOGICAL SATELLITE SENSOR
NASA-CR-55930 N64-17697 09-15

PHOTOELECTRONIC ANEMOGRADIENTOGRAPH - METEOROLOGICAL INSTRUMENT FOR DETERMINING WIND SPEED PROFILES N64-20212 13-21

OPERATION AND PERFORMANCE OF METEOROLOGICAL INSTRUMENT DATA ACQUISITION SYSTEM
REPT.-4-10 N64-21434 14-21

RAINDROP SPECTROMETER, LIQUID-WATER-CONTENT METER, AND DROPLET DISDROMETER FOR MEASURING VARIOUS METEOROLOGICAL PARAMETERS
AFCRL-64-92 N64-22695 15-21

METEOROLOGICAL INSTRUMENTATION AND TELEMETRY SYSTEMS SUITABLE FOR 70- TO 150-KM ALTITUDE
EOS-3800, PT. 1 N64-23886 16-15

HUMAN CAPABILITIES AND LIMITATIONS IN OPERATION, MAINTENANCE, AND CONTROL OF TACTICAL METEOROLOGICAL INSTRUMENTS
ESD-TDR-64-437 N64-29751 21-14

METEOROLOGICAL INSTRUMENTATION AND TECHNIQUES FOR ARMY WEATHER OBSERVATION
REPT.-4 N64-31161 22-21

THERMODYNAMIC PROPERTIES OF WATER VAPOR UNDER LOW ATMOSPHERIC TEMPERATURES AND PRESSURES - HYGROMETRIC TABLES
RM-4244-PR N64-32177 23-21

METEOROLOGICAL INSTRUMENT DEVELOPMENT AND AUTOMATION IN USSR N64-32329 23-21

METEOROLOGICAL PROBE
DATA LINK OSCILLATOR FOR USE IN ROCKETBORNE METEOROLOGICAL DROPSONDE FOR UPPER ATMOSPHERE RESEARCH STUDIES
SAD-130 N64-11824 03-08

METEOROLOGICAL ROCKET PROBES IN MARCH 1964
IRIG-MWG-31-64 N64-31888 23-32

PERIODICITY ANALYSIS FOR BIOMETEOROLOGY RESEARCH
N64-32350 23-16

METEOROLOGICAL ROCKET
STRATOSPHERE INVESTIGATION BY METEOROLOGICAL ROCKETS - AIR TEMPERATURE MEASUREMENT, OCEANOGRAPHY, & HYDROMETEOROLOGY
JPRS-18306 N64-10754 02-21

THERMAL CONDITIONS FOR INDUCING WINTER PRECIPITATIONS BY ANTIHAIL ROCKET
N64-11837 03-21

HYGROSCOPIC SALTS IN ANTIHAIL ROCKETS FOR STABILIZING FOG - SOLID CARBON DIOXIDE & SILVER IODIDE N64-11838 03-21

METEOROLOGICAL SATELLITES & ROCKETS
JPRS-18882 N64-11848 03-12

UPPER ATMOSPHERIC INVESTIGATION BY SATELLITES AND ROCKETS N64-11849 03-12

TEMPERATURE AND DENSITY PROFILES OF UPPER ATMOSPHERE FROM METEOROLOGICAL ROCKET MEASUREMENTS
AWS-TR-175 N64-18697 11-21

DENSITY, TEMPERATURE, AND PRESSURE DISTRIBUTION OF WIND FROM METEOROLOGICAL ROCKET MEASUREMENTS
AFCRL-64-124 N64-19671 12-21

STRATOSPHERIC STRUCTURE DETERMINATION FROM WIND AND TEMPERATURE MEASUREMENTS BY METEOROLOGICAL ROCKETS
ERDA-130 N64-20309 13-21

SHORT-TERM VARIATIONS OF ROCKET WINDS FOR METEOROLOGICAL ROCKET NETWORK
USAELRDL-TR-2369 N64-20333 13-21

METEOROLOGICAL ROCKET DATA PROFILE OF STRATOSPHERIC CIRCULATION AND TEMPERATURE STRUCTURE AT MCMURDO, ANTARCTICA
N64-20673 13-12

METEOROLOGICAL ROCKET SITE AT MCMURDO, ANTARCTICA AND TEMPERATURE AND WIND PROFILES OBTAINED DURING FIRST ROCKET FIRINGS N64-20775 14-10

METEOROLOGICAL ROCKET SOUNDINGS IN STRATOSPHERE AND MESOSPHERE
NASA-SP-49 N64-23869 16-21

STRATOSPHERE-MESOSPHERE METEOROLOGICAL ROCKET
N64-23870 16-32

CLIMATOLOGY FINDINGS OF METEOROLOGICAL ROCKET NETWORK N64-23871 16-21

COMPUTER EVALUATION OF WINDS FROM METEOROLOGICAL ROCKET SONDE MEASUREMENTS
NASA-TM-X-51743 N64-24018 16-21

INVESTIGATION OF UPPER ATMOSPHERIC LAYERS USING METEOROLOGICAL ROCKETS N64-24408 17-21

UPPER ATMOSPHERE STUDIES BY ROCKETS AND ARTIFICIAL EARTH SATELLITES N64-24409 17-21

METEOROLOGICAL ROCKET AND GEOPHYSICAL SATELLITE STUDY OF NOCTILUCENT CLOUDS IN UPPER ATMOSPHERE N64-24558 17-21

FLIGHT TESTS OF CRICKETSONDE METEOROLOGICAL ROCKET
AFCRL-64-469 N64-27437 19-04

METEOROLOGICAL ROCKET NETWORK FIRING DATA
IRIG-109-62, VOL. 5 N64-27560 19-32

METEOROLOGICAL ROCKET NETWORK FIRING
IRIG-109-62, VOL. 6 N64-27561 19-32

DATA PROCESSING OF METEOROLOGICAL ROCKET MEASUREMENTS OF WIND, TEMPERATURE, AND DENSITY IN STRATOSPHERE
ERDA-152 N64-27564 19-21

STRATOSPHERIC CIRCULATION DATA FROM ANALYSIS OF STRATOSPHERIC SOUNDINGS OBTAINED FROM METEOROLOGICAL ROCKET NETWORKS EXPLORATION
ERDA-156 N64-27865 19-21

METEOROLOGICAL ROCKET NETWORK FIRINGS
IRIG-109-62 N64-29580 21-32

METEOROLOGICAL ROCKET NETWORK /MRN/ FOR UPPER ATMOSPHERE EXPLORATIONS - COMPILATION OF WIND AND TEMPERATURE DATA FROM 20 FIRINGS
IRIG-109-62, VOL. IV N64-32185 23-32

ASP METEOROLOGICAL ROCKETS AND DENSITY DATA
RR-TN-63-1 N64-32425 23-32

METEOROLOGICAL DATA FROM WEATHER STATIONS USING LOKI AND ARKAS ROCKET SYSTEMS
IRIG-109-62, VOL. 3 N64-32859 24-32

DATA FROM METEOROLOGICAL ROCKET FIRINGS FOR OCTOBER 1962
IRIG-109-62, VOL. 14 N64-32869 24-32

METEOROLOGICAL SATELLITE
SA NIMBUS SATELLITE
SA TIROS SATELLITE
METEOROLOGICAL STUDIES - SATELLITE MICROWAVE INSTRUMENTATION, RADIOMETRY, AND ABSORPTION & EMISSION CHARACTERISTICS
NASA-CR-52130 N64-10911 02-01

METEOROLOGICAL SATELLITE & NUMERICAL WEATHER PREDICTION BY INTEGRATION OF FINITE DIFFERENCE ANALOGS OF ATMOSPHERE EQUATIONS OF STATE N64-10931 02-21

LIMITATIONS OF METEOROLOGICAL SATELLITE RADAR FOR OBSERVING MICROSCALE OR MESOSCALE PHENOMENA
NASA-CR-52848 N64-11384 02-21

SYSTEM ANALYSIS OF METEOROLOGICAL SATELLITE WITH CAMERA FOR WEATHER DATA RECORDING
MSL-19 N64-11656 03-32

SYNOPTIC INTERPRETATIONS OF CLOUD VORTEX PATTERNS OBSERVED BY METEOROLOGICAL SATELLITES
ARA-F-8243-2 N64-11744 03-21

FUTURE OF METEOROLOGICAL SATELLITES, COMMUNICATION SATELLITES, & SATELLITE SYSTEMS
NASA-TM-X-51277 N64-11795 03-01

METEOROLOGICAL SATELLITES & ROCKETS
JPRS-18882 N64-11848 03-12

UPPER ATMOSPHERIC INVESTIGATION BY SATELLITES AND ROCKETS N64-11849 03-12

METEOROLOGICAL SATELLITE OBSERVATIONS AND INSTRUMENTATION N64-11850 03-12

METEOROLOGICAL SATELLITES AND RECONNAISSANCE AIRCRAFT WEATHER OBSERVING SYSTEMS N64-11998 03-21

TIROS AND NIMBUS METEOROLOGICAL SATELLITES - MORE EFFECTIVE USE OF DATA OUTPUT
NASA-RP-96 N64-13169 04-32

ANNOTATED BIBLIOGRAPHY ON METEOROLOGICAL SATELLITES AND WEATHER FORECASTING N64-14260 06-32

GRAPHIC ANALYSIS OF METEOROLOGICAL SATELLITE PHOTOGRAPHS
RP-17 N64-17531 09-15

SYNCHRONOUS METEOROLOGICAL SATELLITE STUDY - OBJECTIVES, CONCLUSIONS, AND SUMMARIES OF SYSTEM & SUBSYSTEM STUDIES
NASA-CR-55926 N64-17695 09-30

SATELLITE CONFIGURATION AND SUBSYSTEMS FOR SYNCHRONOUS METEOROLOGICAL SATELLITE
NASA-CR-55931 N64-17696 09-30

SYNCHRONOUS METEOROLOGICAL SATELLITE SENSOR
NASA-CR-55930 N64-17697 09-15

SYNCHRONOUS METEOROLOGICAL SATELLITE STUDY - ATTITUDE & ORBIT CONTROL AND STATIONKEEPING
NASA-CR-55929 N64-17698 09-06

SYNCHRONOUS METEOROLOGICAL SATELLITE - COMMUNICATIONS, POWER SUPPLY, AND THERMAL CONTROL
NASA-CR-55928 N64-17699 09-06

INVESTIGATION OF SYNCHRONOUS METEOROLOGICAL SATELLITE SUBSYSTEMS
NASA-CR-55927 N64-17700 09-30

TIROS WEATHER SATELLITE DATA PROCESSING - METEOROLOGY
GD/A-DB864-002 N64-18220 10-21

PATTERN RECOGNITION RESEARCH FOR DEVELOPING MECHANICAL PROCEDURE FOR USING METEOROLOGICAL SATELLITE DATA
NASA-CR-53587 N64-18435 10-12

AUTOMATIC PICTURE TRANSMISSION GROUND STATION FOR REPRODUCTION OF TELEVISION PICTURES FROM METEOROLOGICAL SATELLITE
NASA-CR-53594 N64-18508 10-10

TIROS METEOROLOGICAL DATA STUDIES FOR LOWER MIDDLE LATITUDE WEATHER
AFCRL-64-239 N64-18899 11-21

CONFIRMATION OF THEORETICAL CALCULATION OF EARTH RADIANCE BY TIROS VII METEOROLOGICAL SATELLITE DATA
NASA-RP-163 N64-20016 13-12

RADIOMETERS, BALLOON FLIGHT DATA, AND USE OF STELLAR REFRACTION AS METEOROLOGICAL SATELLITE TECHNIQUE
NASA-CR-53970 N64-20599 13-01

METEOROLOGICAL SATELLITE BIBLIOGRAPHY N64-20676 13-32

METEOROLOGICAL SATELLITE - SATELLITE MEASUREMENT
NASA-CR-56133 N64-20704 13-21

METEOROLOGICAL SATELLITES AND INSTRUMENTATION - EARTH RADIATION FLUX, RADIATION BALANCE, AND CLOUD FORMATION STUDIES
NASA-TT-F-177 N64-21431 14-32

PROBLEMS OF INTERPRETING RESULTS OF MEASUREMENTS OF OUTGOING RADIATION BY MEANS OF METEOROLOGICAL SATELLITES N64-21630 15-12

METEOROLOGICAL SATELLITE FOR PREDICTING SHORT-TIME WEATHER CHANGES
FTD-TT-63-967/1 N64-22360 15-21

REQUIREMENTS FOR ACCURACY IN OBTAINING DATA FROM METEOROLOGICAL SATELLITES
NASA-TT-F-8816 N64-22934 16-21

EARTH RADIATION MEASUREMENTS BY METEOROLOGICAL SATELLITES
NASA-TT-F-8563 N64-23118 16-22

RADIATION DATA FROM TIROS II, III, AND IV MEASUREMENTS
NASA-CR-56296 N64-24028 16-21

VORTEX STRUCTURE OF CLOUD COVER ACCORDING TO WEATHER SATELLITE DATA
NASA-TT-F-206 N64-26783 18-21

AUTOMATIC PICTURE TRANSMISSION GROUND STATION FOR METEOROLOGICAL SATELLITE READOUT PROVIDING REAL-TIME PICTURES OF EARTH CLOUDCOVER
REPT.-6 N64-28108 20-10

METEOROLOGICAL SATELLITE GROUND PICTURE RECEIVER FOR MOBILE USE
USAELRDL-TR-2426 N64-28602 20-08

DIAGNOSTIC-CYCLE ROUTINE FOR METEOROLOGICAL SATELLITE OBSERVATIONS - CHANGES IN CLOUDINESS
AD-602107 N64-29372 21-21

TIROS AND NIMBUS METEOROLOGICAL SATELLITES N64-30341 22-32

METEOROLOGIC SATELLITE OBSERVATION OF SOUTHERN HEMISPHERE CLOUD PATTERNS - ANTARCTICA RESUPPLY OPERATIONS
ARA-F-9228-2 N64-30566 22-21

DIRECT READOUT EQUATORIAL WEATHER SATELLITE - TIROS SYSTEM, METEOROLOGICAL APPLICATION, AND SOLAR CELL POWER SUPPLY
AED-R-2169 N64-30669 22-32

SATELLITE METEOROLOGY ANALYSES - DATA FOR TROPICAL STORMS AND HURRICANES, AND TERRESTRIAL FEATURES
AFCRL-63-843 N64-31156 22-21

WEATHER SATELLITES, ATMOSPHERIC OPTICS, AND LONG WAVE RADIATION TRANSFER N64-31531 23-23

PERFORMANCE OF GROUND RECEIVING SYSTEM FROM AUTOMATIC PICTURE TRANSMISSIONS FROM TIROS VIII SATELLITE
TR-2460 N64-32613 23-15

ARTIFICIAL SATELLITE PHOTOGRAPHY OF CYCLONE OVER CASPIAN SEA N64-32784 24-21

SCANNING PRINTER APPLICATION TO ANALYSIS OF TIROS METEOROLOGICAL SATELLITE RADIATION DATA
NASA-CR-58975 N64-33096 24-15

TABLES OF SCAN NADIR AND HORIZONTAL ANGLES FOR ANALYSIS OF METEOROLOGICAL SATELLITE RADIOMETER DATA
SMRP RES. PAPER-31 N64-33793 24-21

METEOROLOGICAL SATELLITE DATA SYSTEMS
NASA-TM-X-55093 N64-33830 24-32

METEOROLOGICAL STATION
CF WEATHER STATION
ATMOSPHERIC BOUNDARY LAYER STUDIED FROM 300-METER METEOROLOGICAL TOWER N64-16149 08-21

WEATHER FACILITIES FOR AIR TRAFFIC CONTROL IN HIGH DENSITY AIRPORTS
RD-64-32 N64-20278 13-21

METEOROLOGICAL DATA ACQUISITION AND PROCESSING SYSTEM FOR QUANTITATIVE DIFFUSION PREDICTION AS MISSILE RANGE SAFETY TOOL
AFCRL-63-791, VOL. II N64-31657 23-21

SPECIFICATIONS FOR AVIATION WEATHER SYSTEM - METEOROLOGICAL STATION, RADAR DATA REDUCTION EQUIPMENT, AND CIRCUIT CONTROL FOR COMPUTER
AD-420177 N64-31696 23-21

METEOROLOGICAL DATA FROM WEATHER STATIONS USING LOKI AND ARKAS ROCKET SYSTEMS
IRIG-109-62, VOL. 3 N64-32859 24-32

METEOROLOGY
SA AEROLOGY
SA ANTICYCLONE
SA ATMOSPHERIC CONDITION EFFECT
SA ATMOSPHERIC ENERGETICS
SA HYDROLOGY
SA HYDROMETEOROLOGY
SA SYNOPTIC METEOROLOGY
SA TROPICAL METEOROLOGY
CF WEATHER FORECASTING
WAVE MOVEMENTS AND METEOROLOGICAL CONDITIONS IN REGARD TO APPEARANCE OF NOCTILUCENT CLOUDS N64-10061 01-21

METEOROLOGICAL AND RADIOACTIVE FALLOUT ANALYSIS OF PACIFIC COAST CYCLONIC STORM
HNS-17 N64-10216 01-21

ATMOSPHERIC AND METEOROLOGICAL RESEARCH - SOUNDING ROCKETS AND TRACKING ACTIVITIES FROM ARGENTINA AND PHILIPPINES
A/AC.105/11/ADD.3 N64-10434 01-01

MEETING OF UNITED NATIONS COMMITTEE ON PEACEFUL USES OF OUTER SPACE - SPACE LAW, METEOROLOGY, AND TELECOMMUNICATION
A/AC.105/PV-22 N64-10435 01-01

TURBULENT FLOW, WEATHER FORECASTING, FOG BOUNDARY LAYERS, RAIN INTENSITY CALIBRATION OF RADAR, HIGH SPEED TURBULENCE, & BIBLIOGRAPHY ON METEOROLOGY
JPRS-18141 N64-10570 01-21

METEOROLOGICAL & BALLISTIC DATA FOR LAUNCHING OF AEROBEE ROCKET
NASA-CR-52377 N64-10613 01-21

GEOPHYSICAL AND METEOROLOGICAL RESEARCH IN 1962
JPRS-18401 N64-10760 02-01

AVIATION SAFETY RESEARCH PROJECTS - ACCIDENT PREVENTION, FACILITIES, AIRCRAFT, METEOROLOGY, & INSTRUMENTATION N64-10800 02-01

WATER TEMPERATURE DISTRIBUTION, TEMPERATURE ANOMALY EFFECT ON ARCTIC ICE COVER, BAROCLINIC DEPTH, METEOROLOGY & HYDROLOGY BIBLIOGRAPHY
JPRS-20398 N64-10843 02-21

METEOROLOGICAL PARAMETRIC INFERENCES FROM SATELLITE RADIOMETRIC DATA N64-10930 02-28

METEOROLOGY AND CHARACTERISTICS OF WIND FIELDS
JPRS-17424 N64-10992 02-21

METEROLOGICAL OBSERVATIONS AT SEA, MAGNETIC OBSERVATIONS IN THE PACIFIC OCEAN, AND MARINE GEODETIC SURVEYING
JPRS-21410 N64-12141 03-21

MARS AND VENUS METEOROLOGY - MARS ATMOSPHERE TIDES AND THERMODYNAMIC DIAGRAMS, AND VENUS ATMOSPHERE ABSORPTION OF SOLAR ENERGY AND TEMPERATURE PROFILE
NASA-CR-55165 N64-13066 04-29

AUTOMATIC RADIOMETEOROLOGICAL STATION
FTD-TT-63-538/1&2&4 N64-14329 06-21

AUTOMATIC RADIOMETEOROLOGICAL STATION - COMPONENT ANALYSIS N64-14330 06-21

RADIO TRANSMITTER FOR AUTOMATIC RADIO-METEOROLOGICAL STATION N64-14331 06-21

AUTOMATIC RADIOMETEOROLOGICAL STATION FOR RESERVOIRS N64-14332 06-21

METEOROLOGICAL DATA FOR AEROBEE ROCKET LAUNCHING AND IMPACT CALCULATION
ERDA-101 N64-14347 06-21

METEOROLOGICAL DATA FOR AEROBEE ROCKET LAUNCHING AND IMPACT CALCULATION
ERDA-102 N64-14348 06-21

METEOROLOGICAL STUDIES AS RELATED TO AEROSPACE

NUCLEAR RADIATION SAFETY N64-14569 06-21

METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE AC 3511 ROCKET & BALLISTICS STUDIES
ERDA-69 N64-14618 06-21

METEOROLOGICAL DATA FOR LAUNCH OF LITTLE JOE II
ERDA-84 N64-14619 06-21

METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE BSRA-02 ROCKET & BALLISTICS STUDIES
ERDA-90 N64-14620 06-21

METEOROLOGICAL DATA FOR AEROBEE ROCKET LAUNCHING
ERDA-91 N64-14625 06-21

SUBSECULAR FLUCTUATION OF LAKE WATER LEVEL IN WESTERN SIBERIA AND NORTHERN KAZAKHSTAN - RELATIONSHIP WITH CLIMATIC FLUCTUATIONS
T-399-R N64-14723 06-12

FUNDAMENTAL METEOROLOGICAL PROCESSES AND APPLICATION TO PROBLEMS IN AGRICULTURE AND WATER USE N64-14759 06-21

CIRCULATION IN NUCLEAR CLOUDS
TO-B-63-102A N64-14765 06-21

METEOROLOGICAL DATA FOR AEROBEE ROCKET LAUNCH
ERDA-80 N64-14787 06-21

METEOROLOGICAL DATA GATHERED FOR LAUNCHING OF AEROBEE ROCKET
ERDA-92 N64-14788 06-21

METEOROLOGICAL DATA FOR AEROBEE ROCKET LAUNCH
ERDA-86 N64-14789 06-21

RADIOACTIVE ISOTOPES IN ATMOSPHERE, PRECIPITATION SCAVENGING OF RADIOACTIVE AEROSOLS, & TURBULENT DIFFUSION OF AEROSOL - NUCLEAR METEOROLOGY
AEC-TR-6128 N64-14870 06-21

DYNAMIC CHARACTERISTICS OF SUB-POLAR FRONT IN NORTH ATLANTIC
JPRS-23109 N64-15050 07-17

METEOROLOGICAL SUPPORT FOR MISSILE TESTS N64-15324 07-21

METEOROLOGY - DIFFUSION OF AIR POLLUTION AT CAPE CANAVERAL AND VANDENBERG AIR FORCE BASE
AFCRL-63-791, VOL. I N64-15485 07-21

METEOROLOGY - DIFFUSION DATA FOR OCEAN BREEZE AND DRY GULCH PROGRAMS N64-15487 07-21

METEOROLOGICAL DATA FOR OCEAN BREEZE AND DRY GULCH PROGRAMS N64-15488 07-21

INVESTIGATIONS OF EFFECT OF SOLAR ACTIVITY ON CLIMATE AND METEOROLOGY
JPRS-23235 N64-15618 07-21

COMPUTATION OF MAXIMUM WIND VELOCITIES AND MINIMUM TEMPERATURES - METEOROLOGY N64-15619 07-21

STATISTICAL ANALYSIS OF WHITE SANDS METEOROLOGICAL DATA
ERDA-106 N64-15689 07-21

ATMOSPHERIC CIRCULATION, COMPOSITION, AND CONDENSATION - METEOROLOGY AND HYDROLOGY
JPRS-23246 N64-16145 08-21

MECHANISM OF CONDENSATION PROCESSES IN ATMOSPHERE N64-16147 08-21

METEOROLOGICAL INVESTIGATIONS IN INDIA N64-16301 08-21

RADAR METHOD OF DETERMINING PHASE STATE OF CLOUDS AND PRECIPITATION N64-17340 09-21

METEOROLOGICAL AND WEATHER CONDITIONS IN HAILSTORM N64-17570 09-21

SYNCHRONOUS METEOROLOGICAL SATELLITE - COMMUNICATIONS, POWER SUPPLY, AND THERMAL CONTROL
NASA-CR-55928 N64-17699 09-06

TOPOGRAPHICAL SKETCHS, CLIMATOLOGICAL TABLES, AND ANNUAL WINDROSES FOR AIRPORTS
UAL METEOROL. CIRC. 55 N64-18404 10-21

SURVEY OF DATA ON MICROSCOPIC EXTRATERRESTRIAL PARTICLES - METEOROLOGY N64-18496 10-05

METEOROLOGY - DETERMINATION OF SPEEDS OF VERTICAL AIR CURRENTS IN CONVECTIVE CLOUDS WITH HELP OF WEATHER RADAR
SCI. REPT.-63-31T N64-19014 11-21

FIELD OPERATIONS OF NATIONAL SEVERE STORMS PROJECT IN 1963 - PLANNING & FACILITIES
NSSP-20 N64-19080 11-21

STUDY OF MARS & MOON - METEOROLOGY & ASTROPHYSICS N64-19355 12-29

METEOROLOGICAL OBSERVATIONS OF MARTIAN ATMOSPHERE DURING 1962-63 OPPOSITION N64-19356 12-29

METEOROLOGY - CHARTS OF ATMOSPHERIC DENSITY DISTRIBUTION OVER NORTHERN HEMISPHERE
USAELRDL-TR-2393 N64-19374 12-23

SOLAR RADIATION AND IONOSPHERE, ATMOSPHERIC ELECTRICITY, ATMOSPHERIC NUCLEAR EXPLOSIONS, AND METEOROLOGY OF UPPER ATMOSPHERE - BIBLIOGRAPHY
AID-P-64-16 N64-19425 12-12

ADIABATIC INVARIANTS OF ATMOSPHERIC PROCESSES - METEOROLOGY N64-19430 12-21

PHYSICS & ELECTRONICS RESEARCH - SEMICONDUCTORS, INFRARED RADIATION, COMPUTER DESIGN, MASERS, LASERS, RADIO ASTRONOMY, & RADIO METEOROLOGY
ONRL-9-64 N64-20308 13-01

BIOLOGY, MEDICINE, SAFETY, MATERIALS, AND METEOROLOGY - BIBLIOGRAPHY
HW-80524 N64-20669 13-01

METEOROLOGICAL INTERPRETATION OF SATELLITE CLOUD PHOTOGRAPHS N64-20828 14-21

DIAGNOSTIC DIFFERENTIAL EQUATION FOR STREAM FUNCTION OF NON-GEOSTROPHIC MOTION IN FRONTAL ZONE
AFCRL-64-246 N64-21083 14-21

TABLE OF POLAR UPPER ATMOSPHERIC CONDITIONS N64-21520 15-12

ACCURACY OF METEOROLOGICAL DATA FROM FLIGHTS OF ARCAS ROCKET AND ROBIN BALLOON TRACKED BY RADAR
AFCRL-63-938 N64-21822 15-21

METEOROLOGY AND THE PILOT - ATMOSPHERIC CONDITION EFFECT ON FLIGHT PARAMETERS
FTD-TT-63-620/1&2 N64-22038 15-21

VISIBILITY CONDITIONS IN MALAYA - METEOROLOGICAL OBSERVATIONS
AD-439510 N64-22550 15-21

METEOROLOGY - WEATHER FORECASTINGS USES AND POTENTIAL
RM-4083-USWB N64-22618 15-21

METEOROLOGICAL STUDY OF ATMOSPHERIC ELECTRICITY, PRECIPITATION, AND THUNDERSTORMS
FTD-TT-63-595/1&2 N64-22651 15-21

METEOROLOGY AND CLIMATOLOGY - ANNOTATED BIBLIOGRAPHY
AID-P-64-37 N64-23272 16-22

COSMIC RADIATION, RADIO ASTRONOMY, METEOROLOGY, THERMAL BALANCE OF EARTH, AND SOLAR SAIL STUDY USING SATELLITES
FTD-TT-64-499/1&2&4 N64-23852 16-29

PHYSICS OF ATMOSPHERE AND METEOROLOGY N64-23868 16-01

METEOROLOGICAL EXPLORATION OF COLD AIR LAYERS IN IONOSPHERE N64-23889 16-12

IBM 7044 COMPUTER PROGRAM IN FORTRAN FOR DETERMINING LAUNCH ANGLES FOR UNGUIDED ROCKETS
ERDA-148 N64-24344 17-20

EARTH CLIMATE, ATMOSPHERIC CIRCULATION, HEAT BALANCE, AND WEATHER FORECASTING
NASA-TT-F-168 N64-24401 17-21

HYDROMETEOROLOGICAL SERVICE IN USSR N64-24402 17-21

HISTORY OF HYDROMETEOROLOGICAL SERVICE IN USSR N64-24403 17-21

METEOROLOGICAL INVESTIGATION IN ARCTIC AND ANTARCTIC N64-24405 17-21

CLIMATE AND WEATHER STUDIES FOR AGRICULTURAL PURPOSES N64-24414 17-21

DATA HANDLING AND PROCESSING FOR METEOROLOGICAL OBSERVATIONS N64-24415 17-21

STRATOSPHERE, MESOSPHERE & POLAR METEOROLOGY
AFCRL-64-197 N64-24451 17-21

TROPOSPHERIC WAVES & METEOROLOGY N64-24453 17-21

AUTOMATIC PROCESSING OF METEOROLOGICAL DATA N64-24463 17-21

ANTARCTIC MICROMETEOROLOGY AND CLIMATOLOGY N64-24484 17-21

SOUTH POLE WEATHER DATA & ANALYSIS OF CURVATURE CHARCTERISTICS OF MICROMETEOROLOGICAL WIND & POTENTIAL TEMPERATURE PROFILE N64-24485 17-21

METEOROLOGICAL MONITORING OF RADIOACTIVE BETA-GAMMA RADIATION
LAMS-3071 N64-24946 17-23

METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE AD 3.152 ROCKET
ERDA-120 N64-25249 17-21

METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE AC 3.513 ROCKET
ERDA-121 N64-25250 17-21

METEOROLOGICAL DATA GATHERED FOR LAUNCHING OF NIKE-APACHE ROCKET
ERDA-123 N64-25251 17-21

METEOROLOGICAL DATA GATHERED FOR LAUNCHING OF AEROBEE ROCKET
ERDA-124 N64-25252 17-21

CLOUD PATTERNS, TROPICAL CYCLONE, AND DIURNAL VARIATION STUDIES FROM TIROS I SATELLITE PICTURES
AFCRL-64-327 N64-25375 17-21

METEOROLOGICAL INSTRUMENTATION, WEATHER AND CLOUD PHYSICS, AND RADAR WAVE PROPAGATION STUDIES
AFCRL-64-25 N64-25405 17-23

METEOROLOGICAL DATA FOR NIKE-APACHE ROCKET LAUNCH
ERDA-133 N64-25504 17-21

METEOROLOGICAL DATA FOR AEROBEE ROCKET LAUNCH
ERDA-134 N64-25505 17-21

METEOROLOGICAL DATA FOR LAUNCHING OF NIKE-APACHE SPEEDBALL II
ERDA-135 N64-25517 17-21

METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE ROCKET
ERDA-103 N64-25869 18-21

INDUCING METEOROLOGICAL CORRECTIONS INTO COSMIC RAY INTENSITY N64-25935 18-28

METEOROLOGICAL COSMIC RAY EFFECT BELOW GROUND N64-25937 18-28

METEOROLOGICAL EFFECTS IN RELATION TO FREQUENCY OF EXTENSIVE AIR SHOWERS NEAR SEA LEVEL N64-25942 18-28

METEOROLOGY AND GEOASTROPHYSICS - ANNOTATED BIBLIOGRAPHY N64-26022 18-12

EVALUATION OF TIROS VII METEOROLOGICAL DATA
USAELRDL-TR-2439 N64-26174 18-21

SELECTED ARTICLES ON METEOROLOGY AND WEATHER FORECASTING
JPRS-24587 N64-26434 18-21

ENCODING AND DECODING EQUIPMENT FOR MAGNETIC TAPE RECORDING OF SLOWLY VARYING METEOROLOGICAL PARAMETERS N64-26975 19-15

METHODS OF WEATHER CONTROL - METEOROLOGICAL RESEARCH
JPRS-25845 N64-27063 19-21

GEOASTROPHYSICS AND METEOROLOGY - ANNOTATED BIBLIOGRAPHY N64-27189 19-28

METEOROLOGICAL DATA AND CALCULATED BALLISTIC DATA FOR AEROBEE ROCKET 4.81 CG LAUNCH
ERDA-144 N64-27428 19-21

METEOROLOGICAL DATA AND CALCULATED BALLISTIC DATA FOR AEROBEE ROCKET 4.86 NA LAUNCH
ERDA-145 N64-27429 19-21

METEOROLOGICAL DATA AND CALCULATED BALLISTIC DATA FOR AEROBEE ROCKET 4.113 GA-GI LAUNCH
ERDA-146 N64-27430 19-21

METEOROLOGICAL DATA AND CALCULATED BALLISTIC DATA FOR AEROBEE ROCKET NE 3.154 LAUNCH
ERDA-147 N64-27431 19-21

METEOROLOGICAL PHENOMENA AND ERRORS IN RADIO INTERFEROMETER TRACKING SYSTEMS
CRL-2818-1, PT. 1 N64-27477 19-08

METEOROLOGICAL PHENOMENA AND RELATION TO ERRORS IN RADIO INTERFEROMETER TRACKING SYSTEMS
CRL-2818-1, PT. 2 N64-27478 19-08

RESEARCH ON ATMOSPHERIC CONDITION EFFECTS OF STORMS - METEOROLOGY
AFCRL-64-531 N64-27534 19-21

MICROMETEOROLOGICAL RESEARCH PROJECT TO AID IN CHEMICAL-BACTERIOLOGICAL-RADIOLOGICAL WARFARE, ROCKET LAUNCHING, AND COMBAT SURVEILLANCE SENSORS
ERDAA-MET-4-64 N64-27794 19-21

METEOROLOGY AND WEATHER FORECASTING
JPRS-25697 N64-27934 20-21

ELEMENTRY ALGORITHMS IN NUMERICAL SOLUTION OF WEATHER FORECASTING PROBLEM N64-27935 20-21

TROPOSPHERIC CIRCULATION PATTERNS IN EQUATORIAL REGION N64-27936 20-21

NUMERICAL WEATHER FORECASTING - STATISTICAL ANALYSIS OF ERRORS IN LINEARIZATION OF VORTICITY EQUATION FOR DIFFERENT ATMOSPHERIC MOVEMENTS N64-27937 20-21

EXTRAPOLATIVE WEATHER FORECASTING FOR ANALYZING GEOPOTENTIAL FIELD IN AREAS HAVING LITTLE AVAILABLE DATA N64-27938 20-21

AIR DENSITY CHANGE AT SEA LEVEL COMPUTED FROM ISOBARIC LEVELS OF ATMOSPHERE N64-27940 20-21

CONTRIBUTION OF VERTICAL MOVEMENTS TO DEVELOPMENT OF CYCLONES AND ANTICYCLONES N64-27941 20-21

CORRELATION OF METEOROLOGICAL CONDITIONS /WIND, TEMPERATURE, PRESSURE, AND HUMIDITY/ WITH SEISMIC NOISES
AFCRL-64-607 N64-28154 20-21

IMPROVED METHODS IN HYDROLOGY AND METEOROLOGY
JPRS-26139 N64-28401 20-12

METEOROLOGICAL OBSERVATIONS AND INSTRUMENTATION
JPRS-25718 N64-28436 20-21

METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE ROCKET
ERDA-136 N64-28702 20-21

METEOROLOGICAL DATA FOR LAUNCHING OF AEROBEE ROCKET
ERDA-139 N64-28704 20-21

RADIO WAVE PROPAGATION STUDIES - RESEARCH IN IONOSPHERICS, EARTH GRAVITATIONAL FIELD, RADIO METEOROLOGY, MAGNETISM, IONOSONDE ROCKETS AND SATELLITES N64-28768 20-08

MICROMETEOROLOGICAL NETWORK USING CAPTIVE BALLOONS FOR WIND MEASUREMENT
APGC-TDR-64-24 N64-28865 20-21

LOW LEVEL WIND PROFILES FOR CAPE KENNEDY SEP. 23 TO 25, 1963
NASA-TM-X-53027 N64-29177 21-21

CONFERENCE ON CONTROL OF METEOROLOGICAL PROCESSES
T-R-438 N64-29444 21-21

EFFECT OF VARIATIONS OF BOUNDARY LAYER CONDITIONS ON ATMOSPHERIC BOUNDARY LAYER
AD-429496 N64-29531 21-21

FORECASTING ZONAL CIRCULATION ON BASIS OF COUPLING MOMENTS - METEOROLOGY N64-29668 21-21

LONG PERIOD FORECASTING OF ZONAL CIRCULATION - METEOROLOGY N64-29670 21-21

AUTOMATIC METEOROLOGICAL MEASUREMENTS IN LOWER 300-METER LAYER OF ATMOSPHERE
FTD-MT-63-184 N64-30130 21-21

SPACE SCIENCE CONTRIBUTIONS IN ASTROPHYSICS, GEODESY, GEOLOGY, METEOROLOGY, AND ASTRONOMY N64-30339 22-29

METEOROLOGICAL REQUIREMENTS FOR CIVIL AND MILITARY AVIATION THROUGH 1975
RD-64-31 N64-30622 22-21

METEOROLOGICAL MEASUREMENT OF CONDENSATION NUCLEI, IONIZATION DISTRIBUTION, AND TRACE GAS IMPURITIES IN EARTH ATMOSPHERE
AD-420435 N64-31177 22-21

METEOROLOGICAL DATA FOR LAUNCHING AND BALLISTIC STUDIES OF AEROBEE AD 3.355
ERDA-150 N64-31600 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCH OF NIKE-APACHE SPEEDBALL II ROCKET
ERDA-149 N64-31679 23-21

ATMOSPHERICS IN THUNDERSTORM ACTIVITY AND LIGHTNING DISCHARGE DETECTORS
FTD-MT-64-124 N64-31758 23-21

THUNDERSTORM ACTIVITY AND DISTRIBUTION USING UNIDIRECTIONAL DIRECTION FINDER AND THUNDERSTORM RECORDERS N64-31759 23-21

METEOROLOGICAL DATA AND BALLISTIC STUDIES FOR AEROBEE 4.67 NP LAUNCH AND IMPACT PREDICTION
ERDA-151 N64-31912 23-21

METEOROLOGICAL CONDITIONS AFFECTING INFRARED SPECTRAL TRANSMISSIVITY OF EARTH ATMOSPHERE
ERDA-186 N64-32039 23-21

METEOROLOGICAL DATA AND CALCULATED BALLISTIC DATA FOR LAUNCHING OF AEROBEE ROCKET
ERDA-143 N64-32124 23-21

METEOROLOGICAL DATA FOR LAUNCHING OF ATHENA ROCKET
ERDA-153 N64-32312 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING AEROBEE NB 3.147 ROCKET
ERDA-154 N64-32313 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING NIKE-APACHE ROCKET
ERDA-155 N64-32314 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING NIKE-APACHE SPEEDBALL II ROCKET
ERDA-163 N64-32316 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING AEROBEE KP 3.6 ROCKET
ERDA-166 N64-32318 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING ATHENA ROCKET
ERDA-167 N64-32319 23-21

CLOUD SEEDING EXPERIMENT IN AUSTRALIA N64-32791 24-21

HURRICANE MODIFICATION
NASA-CR-59080 N64-33092 24-21

METEOROLOGY OF VENUS, MARS, AND JUPITER
NASA-CR-58848 N64-33165 24-29

MICROMETEOROLOGICAL PREDICTIONS OF DOSAGE AND CONCENTRATION LEVELS OF CONTAMINANT MATERIAL IN LOWER ATMOSPHERE
HW-83602 N64-33584 24-21

AGRICULTURAL METEOROLOGY, METEORITES, AND USE OF SPECTROPHOTOMETRIC DATA IN COMMUNIST CHINA
JPRS-27009 N64-34006 24-07

AGRICULTURAL METEOROLOGY - WEATHER CONDITIONS AND CLIMATE CONTROL FOR IMPROVED CROP PRODUCTION N64-34009 24-22

METER
SA BAROMETER
SA BOLOMETER
SA DENSITOMETER
SA DIFFRACTOMETER
SA DILATOMETER
SA DOSIMETER
SA ELECTROMETER
SA FIELD INTENSITY METER
SA FLOW METER
SA GALVANOMETER
SA GAUGE
SA GAUSSMETER
SA GRAVIMETER
SA HELIOMETER
SA HYGROMETER
SA MAGNETOMETER
SA NEPHELOMETER
SA NOISE METER
SA POLARIMETER
SA REFLECTOMETER
SA REFRACTOMETER
SA SEISMOMETER
SA TACHOMETER
CF INDICATOR
CF MEASURING APPARATUS
SLUG TYPE HEAT-FLUX METERS - DESIGN PARAMETERS
NASA-CR-56137 N64-20727 13-15

PERFORMANCE CHARACTERISTICS OF TAUT BAND SUSPENSION PANEL METERS FOR MILITARY APPLICATIONS
AD-440166 N64-21246 14-15

DESIGN AND PRODUCTION OF RUGGEDIZED TAUT BAND SUSPENSION PANEL METER
AD-491325 N64-31596 23-15

COMPARATOR FOR DETERMINING METRIC STANDARDS N64-32790 24-23

METEROID HAZARD
HYPERVELOCITY IMPACT DAMAGE CHARACTERISTICS IN ARMORED SPACE RADIATOR TUBES - METEOROID HAZARD
NASA-TN-D-2472 N64-28985 20-33

METHACRYLATE
ANISOTROPY OF THERMAL NEUTRON DIFFUSION CONSTANT IN POLYMETHYL METHACRYLATE WITH EMPTY CHANNELS

NIJS-R-413 N64-11398 02-23

PLEXIGLAS CONTAINERS FOR BIOLOGICAL MATERIAL IN SPACECRAFT ENVIRONMENT DURING FLIGHT
N64-11702 03-16

EFFECT OF GAMMA RAYS ON POLYMETHYL METHACRYLATE
TIL/T-5400 N64-14748 06-19

TRANSIENT THERMOCONDUCTIVITY OF POLYETHYLENE, POLYTETRAFLUOROETHYLENE, & POLYMETHYLMETHACRYLATE AT ELEVATED TEMPERATURES
NASA-CR-53071 N64-15789 07-13

GRAIN DESIGNS FOR HYBRID ROCKET ENGINES - OXYGEN-POLYMETHYL METHACRYLATE SYSTEMS
P-119 N64-25187 17-27

EFFECTS OF COMPOSITION AND IRRADIATION ON GLASS TRANSITION TEMPERATURE OF METHYL METHACRYLATE-STYRENE COPOLYMERS N64-28290 20-19

CROSS CHECK STUDY OF VACUUM COMPATIBILITY OF POLYSTYRENE AND POLYMETHYLMETHACRYLATE - WEIGHT LOSS DETERMINATION
NASA-TM-X-53106 N64-33868 24-19

METHANE
DERIVATIVES OF PYRIDYLTHIAZOLYMETHANE AS PHYSIOLOGICALLY ACTIVE SUBSTANCES
E-T-R-63-2 N64-12280 03-07

FLAMMABILITY OF METHANE MIXTURES WITH OXYGEN & INERT DILUENTS - DEPENDENCE OF IGNITION DELAY ON TEMPERATURE, PRESSURE, & CONCENTRATION
FTD-MT-63-101/1&2&3&4 N64-14384 06-26

REACTION RATES OF HYDROGEN, AMMONIA, & METHANE IN MIXTURES OF ATOMIC & MOLECULAR OXYGEN
NASA-RP-120 N64-14860 06-07

ABSORPTION CROSS SECTION OF ARGON & METHANE IN 600 TO 200 ANGSTROM REGION
NSL-TM-63-187 N64-14933 06-23

VISCOSITY OF HYDROGEN, DEUTERIUM, METHANE, AND CARBON MONOXIDE - SQUID PROJECT
BRN-10-P N64-15762 07-19

PERFORMANCE OF HYDROGEN AND NONCRYOGENIC GASES OF AMMONIA, LITHIUM-HYDRIDE, METHANE, ETHANE, & WATER AS ELECTROTHERMAL THRUSTOR PROPELLANTS
NASA-TN-D-2253 N64-16120 08-27

INELASTIC SCATTERING OF MONOENERGETIC NEUTRONS IN ZIRCONIUM HYDRIDE, POLYETHYLENE, LIQUID METHANE, AND LIQUID PARA-HYDROGEN
GA-4434 N64-16128 08-23

INFRARED ABSORPTION SPECTRUM ANALYSIS OF LIQUID AND SOLID METHANE AND HEAVY METHANE
NASA-CR-53569 N64-18446 10-23

MECHANISM OF DETONATION OF LIQUID EXPLOSIVES - NITROMETHANE
FTD-MT-63-78/1&2 N64-18761 11-26

TWO-DIMENSIONAL HYDRODYNAMIC HOT SPOT FORMED BY SHOCK WAVE INTERACTION WITH SPHERICAL VOID IN NITROMETHANE
LA-3077 N64-23890 16-11

KINETICS OF HYDROGEN BROMIDE AND METHYL BROMIDE FLAME INHIBITION
SR-6-3 N64-25183 17-07

DEPENDENCE OF TOTAL ABSORPTANCE OF CARBON MONOXIDE ON ABSORBER CONCENTRATION, PRESSURE, AND TEMPERATURE
AFCRL-64-448 N64-26242 18-07

CHEMICAL REACTIONS OF NATURAL SILICATES WITH METHANE, METHANE-HYDROGEN MIXTURES, CARBON, AND SILICON CARBIDES - UTILIZATION OF LUNAR RESOURCES
NASA-CR-56885 N64-26356 18-07

DISSOCIATION OF METHANE MOLECULE IONS FORMED IN CHARGE EXCHANGE COLLISIONS WITH POSITIVE IONS - ION-MOLECULE REACTIONS OF METHANE
AFCRL-64-545 N64-27535 19-07

ION-MOLECULE REACTIONS IN METHANE-OXYGEN AND ACETYLENE-OXYGEN SYSTEMS
HUM-6-P N64-29726 21-26

ONE-CENTER SELF-CONSISTENT FIELD MOLECULAR ORBITAL WAVE FUNCTIONS FOR GROUND STATES OF HYDROGEN FLUORIDE, METHANE, AND SILANE N64-30315 22-23

LABORATORY APPARATUS TO STUDY REDUCTION OF IGNEOUS ROCK WITH CARBON, HYDROGEN, AND METHANE - UTILIZATION OF LUNAR RESOURCES
NASA-CR-59197 N64-33161 24-07

INITIATION OF DETONATION BY IMPACT OF NITROMETHANE JET ON PLEXIGLASS, MAGNESIUM, AND ALUMINUM
QR-2 N64-33929 24-26

CHARACTERISTICS OF HYDROCARBONS FROM LOW FREQUENCY ELECTRIC DISCHARGE IN METHANE
NASA-RP-361 N64-33991 24-29

METHOD
S ASYMPTOTIC METHOD
S BIOT METHOD
S BRIDGMAN METHOD
S COMPUTER METHOD
S ELECTROMAGNETIC METHOD
S FINITE DIFFERENCE METHOD
S GALERKIN METHOD
S HALPHEN METHOD
S HILL METHOD
S LEAST SQUARES METHOD
S MOIRE METHOD
S MOMENT METHOD
S MONTE CARLO METHOD
S PRODUCTION METHOD

METHYL
COMPARATIVE INVESTIGATION OF OPTIMUM CONDITION FOR ISOLATION OF CYCLOHEXANE AND METHYLCYCLOPENTANE PETROLEUM FRACTIONS
FTD-TT-63-563/1&2&4 N64-11164 02-07

INFRARED SPECTRA OF METHOXYACETONITRILE AND METHYL-CHLOROMETHYL-ETHER IN SOLUTION AND IN VAPOR AND LIQUID STATES
AFCRL-63-758 N64-12293 03-19

PHOTOLYSIS AND PYROLYSIS OF 4-METHYL-4-METHOXY-2-PENTANONE
TDR-269/4240-201-1 N64-12581 04-07

DEVELOPMENT OF DISSOLVED-FUEL-TYPE METHANOL-AIR FUEL CELL N64-17408 09-06

SYNTHESIS OF ALPHA AMINO ACID METHYL ESTERS
N64-27970 20-07

SPECTRAL AND MAGNETO-CHEMICAL STUDIES OF 5-TRIFLUOROMETHYLTETRAZOL COMPLEXES, COPPER COMPLEXES OF SUBSTITUED BENZOIC ACIDS, AND COPPER HALIDE COMPLEX WITH PYRIDINE N-OXIDE SUBSTITUTIONS
SR-9 N64-31093 22-07

N-METHYL SUBSTITUTED SILAZANES & SILICON-NITROGEN COMPOUNDS WITH SILICON-METHYLENE-SILICON GROUPING
AD-420486 N64-31234 22-07

CHEMILUMINESCENCE OF TRIMETHYL ALUMINUM ARTIFICIAL CLOUD IN UPPER ATMOSPHERE - FIREFLY PROJECT
N64-31392 23-12

METHYL HYDRAZINE
RADIATION TESTING MONOMETHYL HYDRAZINE PROPELLANT FOR RIFT PROJECT
NSP-64-10 N64-18470 10-26

METROLOGY
SA STANDARD
INTERNATIONAL SYSTEM OF BASIC MEASURING UNITS - NOMENCLATURE, ABBREVIATIONS, AND DERIVED UNITS
NASA-TT-F-200 N64-14733 08-23

METROLOGY - CONTROL OF MEASURING APPARATUS

N64-25388 17-15

PROCEEDINGS OF ELEVENTH GENERAL CONFERENCE OF WEIGHTS AND MEASURES
NASA-TT-F-217 N64-30088 21-23

HEXAMINE
INFLUENCE OF HEXAMINE ON REACTION OF PATIENT SUBJECTED TO RADIATION THERAPY N64-30242 22-16

MEXICO
TROPOSPHERIC RADIO PROPAGATION ON OVERSEA PATH IN GULF OF MEXICO
NBS-8429 N64-32075 23-08

MICA
X-RAY FLUORESCENCE TABLES - MICA-80 CRYSTAL
Y-1470-G N64-23624 16-23

DESIGN AND FABRICATION OF OPTICAL FILTERS FOR LASER FREQUENCY - MICA SPACER INTERFERENCE FILTER
QPR-2 N64-28144 20-25

MICHAEL REACTION
MOLECULAR ORBITAL THEORY OF SOME MICHAEL REACTIONS - CHAIN PSEUDOACIDS
TIL/T-5226 N64-10238 01-23

MICHELL THEOREM
OPTIMUM MICHELL FRAMEWORK FOR THREE COPLANAR FORCES
COA-167 N64-10274 01-23

LAYOUTS AND VIRTUAL DISPLACEMENT FIELDS IN MICHELL THEORY OF OPTIMUM STRUCTURES
COA-N-AERO-161 N64-27410 19-33

MICHELSON INTERFEROMETER
THEORY OF MICHELSON STELLAR INTERFEROMETER
JPRS-18083 N64-10496 01-15

MICHELSON INTERFEROMETER FOR HEIGHT AND DOPPLER PROFILE STUDIES
AFCRL-63-688 N64-24199 16-15

TWO BEAM INTERFEROMETRIC INSTRUMENTATION FOR FAR INFRARED STUDIES - PERIODIC OPERATING LAMELLAR GRATING AND MICHELSON INTERFEROMETER
N64-29478 21-23

MICHIGAN PROJECT
PRECISION POSITION DETERMINATION BY DISTANCE MEASURING TECHNIQUES USING ELECTRONIC METHODS AND OSCILLATORS
REPT.-2900-453-T N64-32674 23-23

MICHIGAN PROJECT COMBAT SURVEILLANCE AND TARGET ACQUISITION RADAR - GEOMETRIC DISTORTIONS IN FIELD OF VIEW OF ROTATING-OBLIQUE MIRROR SCANNING SYSTEM
REPT.-6400-10-T N64-33956 24-15

MICROANALYSIS
MICROMETHOD FOR PHYSIOCHEMICAL INVESTIGATION OF PLUTONIUM & ITS ALLOYS
JPRS-22599 N64-13382 04-18

ELECTRON BEAM MICROANALYSIS OF REFRACTORY ALLOYS TO DETERMINE CONCENTRATION GRADIENTS IN BINARY DIFFUSION COUPLES
ASD-TDR-62-7, PT. 2 N64-18892 11-07

SUGGESTED VALUES FOR FLUORESCENCE YIELDS & ABSORPTION JUMP RATIOS BY CHARACTERISTIC RADIATION ANALYSIS - MICROPROBE ANALYSIS
NLCO-917 N64-31016 22-23

ELECTRON MICROPROBE METHOD TO DETERMINE GALLIUM IN DELTA-STABILIZED PLUTONIUM
LA-3125 N64-33065 24-07

MICROBIOLOGY
CF MICROORGANISM
MICROBIOLOGICAL AND CYTOLOGICAL INVESTIGATIONS OF CONDITIONS IN OUTER SPACE, & GENETIC EFFECTS OF SPACE FLIGHT N64-11670 03-16

CHEMISTRY & TECHNIQUE OF WATER PURIFICATION, STRENGTH & DUCTILITY, AND MICROBIOLOGICAL SYNTHESIS OF PROTEINS & OTHER SUBSTANCES
JPRS-24494 N64-19785 12-23

ELEMENTARY HYDROCARBON MICROBIOLOGY
ASD-TDR-63-752 N64-21501 15-16

MICROBIOLOGICAL STUDY OF BACTERIA POPULATION IN MONOLITH OF MINERAL ICE
FTD-TT-63-926/1&2 N64-21662 15-16

MICROBIOLOGY - ANNOTATED BIBLIOGRAPHY
FTD-TT-63-1009/1&2 N64-23432 16-16

MICROBIOLOGICAL AND CYTOLOGICAL STUDIES IN CONQUEST OF SPACE N64-23751 16-16

PRODUCTION METHOD FOR CONTROLLED MICROBIOLOGICAL CORROSION ON TEST SPECIMENS
ADN-09-08A-63.1 N64-23899 16-16

MICROBIOLOGICAL CONTAMINATION OF MANNED AND UNMANNED SPACECRAFT N64-24611 17-16

MICROBIOLOGICAL DEWAXING PROCESS YIELDING PROTEIN-VITAMIN CONCENTRATES
NASA-TT-F-233 N64-26836 18-16

OPTIMUM LIGHT ARRANGEMENT FOR PROMOTING ALGAE GROWTH, WASTE TREATMENT UNIT DEVELOPMENT, AND MICROTERELLA ADVANCED MODEL DESCRIPTION
SERL-64-5 N64-29906 21-16

GENERAL SCIENCE - METABOLISM, MICROBIOLOGY, AND CHEMISTRY
JPRS-26991 N64-33957 24-16

MICROELECTRONICS
MICROELECTRONICS FOR MINUTEMAN GUIDANCE & CONTROL
N64-12110 03-09

ELECTRO-OPTICAL DEVICE, AND APPLICATION TO MICROELECTRONIC COMPUTER SYSTEMS
TI-03-63-49 N64-13094 04-25

ALUMINUM OXIDE CERAMIC MICROMINIATURE TRANSISTOR PACKAGE
AD-403859 N64-13116 04-09

MICROPOWER TRANSISTOR LINEAR BROADBAND AMPLIFIER - DESIGN STUDY
USAELTDL-TR-2386 N64-13871 05-09

SEMICONDUCTOR TECHNOLOGY & MICROELECTRONICS
JPRS-22993 N64-14073 05-09

SPUTTERING METHOD FOR PREPARATION OF DIELECTRIC FILMS OF TITANIUM OXIDE - CAPACITOR APPLICATION
RADC-TDR-63-491 N64-14630 06-09

MINIATURE THIN-FILM INDUCTORS USING FLAT CONDUCTING SPIRALS DEPOSITED ON FERRITE SUBSTRATE
IR-2 N64-14772 06-09

BERYLLIUM OXIDE SINGLE CRYSTALS FOR MICRO-ELECTRONICS
NASA-CR-55913 N64-17669 09-19

MICROELECTRONICS APPLICATIONS TO INERTIAL NAVIGATION SYSTEMS N64-18001 10-09

ULTIMATE MINIMUM SIZE OF MICROELECTRONIC CIRCUITS DUE TO DOPING, COSMIC RADIATION, ELECTRON BEAM RESOLUTION, & HEAT DISSIPATION
AFCRL-64-136 N64-19662 12-25

GROWTH OF SINGLE CRYSTAL BERYLLIUM OXIDE FOR USE AS SUBSTRATE IN MICROELECTRONIC DEVICES
NASA-CR-56190 N64-20815 14-19

PROPERTIES OF SILICON OXIDE PASSIVATION LAYER FOR MICROELECTRONIC DEVICE RELIABILITY
N64-20993 14-17

FAILURE MODES IN INTEGRATED AND DISCRETE COMPONENT MICROELECTRONIC CIRCUITS N64-20997 14-09

EPITAXIAL DEPOSITION OF SILICON FILMS ON FOREIGN AND SINGLE CRYSTAL SILICON SUBSTRATES FOR MICROELECTRONICS APPLICATIONS
AD-431993 N64-21370 14-25

PRODUCTION ENGINEERING METHOD FOR IMPROVING RELIABILITY OF SILICON PLANAR TRANSISTORS AND MICROELECTRONIC MONOLITHIC CIRCUITRY
AD-437181 N64-21463 14-17

DEPOSITION OF SEMICONDUCTOR THIN FILMS FOR ACTIVE ELEMENTS IN MICROELECTRONIC DEVICES
Q445-7 N64-22530 15-25

SYNTHESIS OF LARGE-SCALE LOGIC FUNCTIONS ON ARRAY OF INTEGRATED MICROCIRCUITS
AFCRL-63-528 N64-22692 15-09

NIMBUS SATELLITE SYSTEMS CONTAINING MICROELECTRONIC CIRCUITS - TELEMETRY SYSTEM
NASA-TN-D-2311 N64-23221 16-09

FAILURE MODES IN MICROELECTRONICS - RELIABILITY IN SOLID STATE PHYSICS
RADC-TDR-64-61 N64-23953 16-09

MICROELECTRONIC FAILURE MECHANISMS
RADC-TDR-64-125 N64-23957 16-09

RELIABILITY ENGINEERING FOR IMPROVEMENT OF SILICON PLANAR EPITAXIAL TRANSISTORS AND MICROELECTRONIC CIRCUITS
AD-601676 N64-24928 17-17

SOLID STATE MICROELECTRONIC SYSTEMS
REPT.-3 N64-25035 17-09

FABRICATION OF MICROELECTRONICS FOR TIME AND FREQUENCY CONTROL SYSTEMS - VERY LOW FREQUENCY AND LOW FREQUENCY SYNTHESIZER
NOE-3572 N64-26089 18-09

MICROPOWER ELECTRONICS
AGARDOGRAPH-77 N64-26439 18-09

MICROPOWER MICROELECTRONIC SUBSYSTEMS
N64-26443 18-09

MICROMINIATURE DIGITAL INTEGRATOR USING MICROPOWER CIRCUITS N64-26444 18-09

MINIMUM POWER DIGITAL CIRCUITS FOR MARINER II AND OTHER SPACECRAFT N64-26446 18-09

GEOMETRIC DESIGN AND CONFIGURATION OF MICROMODULES
AD-437877 N64-26668 18-09

PORTABLE BASELINE ORIENTOR USING MICROELECTRONICS AND GYROSCOPE TO SENSE EAST-WEST DIRECTION
PUB-552-A-32 N64-27350 19-15

SILICON EPITAXIAL FILMS FOR MICROELECTRONICS AND LARGE AREA SEMICONDUCTOR DEVICES
QR-8 N64-27928 20-25

JOINING TECHNIQUES FOR CONNECTION IN COMPLEX MICROELECTRONIC SYSTEMS N64-28673 20-09

SINGLE CRYSTAL GROWTH, AND DETERMINATION OF THERMAL AND DIELECTRIC PROPERTIES OF BERYLLIUM OXIDE FOR USE IN MICROELECTRONICS
NASA-CR-58527 N64-28843 20-25

BRIDGING MATERIALS AND TECHNIQUES FOR RELIABLE INTERCONNECTIONS OF THIN FILM MICROCIRCUITS AND SILICON INTEGRATED CIRCUITS
REPT.-1 N64-28961 20-09

MICROELECTRONIC SYSTEMS - TRAINABLE SELF-ADAPTIVE SYSTEMS, DEVICES, SEMICONDUCTOR FABRICATION, AND HOT ELECTRONS IN METAL FILMS
SU-SEL-64-037 N64-29748 21-09

PRODUCTION METHODS FOR HERMETIC PACKAGING AND INTERCONNECTING OF MICROCIRCUITS
HSER-2884 N64-29819 21-17

PHOTOENGRAVING TECHNIQUES USED IN SILICON INTEGRATED DEVICE TECHNOLOGY
ASD-TDR-63-316, VOL. III N64-29984 21-25

DIELECTRICS, MICROELECTRONICS, AND THIN FILMS OF CADMIUM SELENIDE AND ZINC TELLURIDE
QR-1 N64-30205 21-25

NEUROPHYSIOLOGY - MICROELECTRODE TAPPING FOR BIOELECTRIC MEASUREMENTS OF HUMAN MOTOR NEURONS
N64-30240 22-16

DIGITAL STABILIZATION COMPUTER MADE FROM MICROELECTRONIC COMPONENTS N64-31494 23-09

OPTICAL SOLDERING AND MICROELECTRONIC INTERCONNECTIONS - AUTOMATION ABILITY AND HIGH DENSITY SYSTEMS N64-31500 23-17

MICROMODULAR DESIGN AND CONSTRUCTION OF ELECTRIC CIRCUITS - STANDARDIZED DIMENSIONS
QR-21 N64-32172 23-09

MICROELECTRONICS IN AIRBORNE ELECTRONIC EQUIPMENT
QE/C-64-607 N64-32931 24-09

ADVANCED FABRICATION PROCESSES FOR ELECTRONIC MODULES IN MICROELECTRONICS
IER-03-64-38 N64-33642 24-09

DESIGN OF MICROELECTRONIC 2-WATT SERVO AMPLIFIER - DIFFERENTIAL AMPLIFIER WITH TWO FEEDBACK LOOPS
REPT.-1111-R-0010 N64-33706 24-09

MICROGRAPHY
PHOTOMICROGRAPHIC EXAMINATION OF CARBON & GRAPHITE MICROSTRUCTURES
WADD-TR-61-72, VOL. 22 N64-15069 07-19

FRACTURE DEFORMATION OF UNALLOYED ALPHA PLUTONIUM - ELECTRON MICROFRACTOGRAPHY
HW-79846 N64-15837 07-18

X-RAY MICROPHOTOGRAPHY OF ALPHA PLUTONIUM WITH BERG-BARRETT X-RAY CAMERA
UCRL-7651 N64-17075 09-23

DETERMINATION OF RESISTANCE WELDABILITY OF TZM MOLYBDENUM ALLOY THIN SHEET
A475 N64-17133 09-17

MICROMEROGRAPH
S PARTICLE SIZE

MICROMETEORITE
DETECTORS FOR DETERMINING MICROMETEORITE INFLUX RATE IN EARTH ATMOSPHERE
AFCRL-63-663 N64-13258 04-05

SPECTRAL EMISSIVITY OF POLISHED METALS AFTER DAMAGE BY SIMULATED MICROMETEORITE
NASA-CR-53235 N64-17590 09-23

DESIGN, DEVELOPMENT, AND CONSTRUCTION OF MICRO-METEORITE DETECTORS USING ACOUSTIC SENSORS
AFCRL-64-98 N64-18647 11-15

LOGICAL DESIGN AND CONSTRUCTION OF TRANSISTORIZED DIGITAL COMPUTER FOR MICROMETEORITE DETECTION SYSTEMS
AFCRL-64-9A, APPEND. N64-24986 17-09

MICROMETEORITE HYPERVELOCITY IMPACT
NASA-CR-54057 N64-24989 17-05

ASTRONAUT OBSERVATION OF LUMINOUS PARTICLES - MICROMETEORITES COLLIDING WITH SPACECRAFT SURFACE
NASA-TT-F-8916 N64-26713 18-28

SOVIET DEEP SPACE PROBE MARS I - COSMIC RADIATION AND MICROMETEORITE DENSITY MEASUREMENTS
FTD-TT-64-86/1&2 N64-26728 18-32

COLLISION OF WEST FORD NEEDLES WITH MICROMETEORITES
RSIC-235 N64-28530 20-05

MICROMINIATURIZATION
MICROSPECTROPHOTOMETRY N64-14740 08-16

LOW COST MICROMODULE DESIGN STUDY
AD-439238 N64-21313 14-09

MANUFACTURE OF MICROMINIATURE SEMICONDUCTOR SOLID STATE CIRCUITS N64-21829 15-09

MICROMINIATURE PROGRAMMABLE LOGIC ELEMENTS

AFCRL-64-321 N64-24206 16-09

MICROMINIATURE DIGITAL INTEGRATOR USING MICROPOWER CIRCUITS N64-26444 18-09

PACKAGING AND INTERCONNECTIONS FOR MINIATURIZED ELECTRONIC SYSTEMS - BIBLIOGRAPHY
SB-63-51 N64-26821 18-09

MICROMINIATURE CRYSTAL UNITS
REPT.-4 N64-27846 19-17

INTEGRATED CIRCUIT DESIGN FOR LOW COST INERTIAL GUIDANCE SYSTEM - MICROMINIATURIZATION TECHNIQUES
T4-1448/32 N64-32522 23-09

MICROMINIATURIZED ELECTRONIC EQUIPMENT
CF MINIATURE ELECTRONIC EQUIPMENT
DESIGNS FOR MICROMINIATURIZED ELECTRONIC EQUIPMENT TO MINIMIZE COSTS
QR-1 N64-20130 13-09

ELECTRON BEAM WELDING AND HERMETIC SEALING OF MICROMINIATURIZED ELECTRONIC MODULES
SCL-7686 N64-21119 14-17

MICROMINIATURIZATION OF ELECTRONIC EQUIPMENT - ANNOTATED BIBLIOGRAPHY
SB-62-67 N64-23883 16-09

RADIATION RESISTANCE OF THERMIONIC INTEGRATED MICROMODULES N64-28680 20-09

MICRON
SPECTRAL EMISSIVITIES OF WATER BETWEEN 4 MICRONS AND 22 MICRONS FOR TEMPERATURES OF 550 DEGREES TO 2,200 DEGREES K
GDA-DBE64-046 N64-28904 20-23

MICROORGANISM
SA ALGAE
SA BACTERIA
SA FUNGUS
SA PLANKTON
CF MICROBIOLOGY
SURVIVAL OF EARTH MICROORGANISMS IN SIMULATED MARS ENVIRONMENT
NASA-CR-52841 N64-11293 02-16

CONTINUOUS PROPAGATION OF MICROORGANISMS - LIFE CYCLE STUDIES INVOLVING AGE DISTRIBUTION N64-11436 02-16

BIOLOGICALLY RESISTANT PIGMENT FROM AEROBIC WASTE DIGESTERS
SAM-TDR-63-57 N64-13852 05-16

MICROORGANISMS IN HUMAN GINGIVAL TISSUES
SAM-TDR-63-88 N64-13865 05-16

GENERATION AND UTILIZATION OF HYDROGEN BY MICRO-ORGANISMS - BIOCHEMICAL FUEL CELLS
AD-428050 N64-15090 07-06

EXPOSURE OF MICROORGANISMS UNDER ULTRAHIGH VACUUM TO EXTREME TEMPERATURES
NASA-CR-55288 N64-15181 07-16

OPTIMUM ENVIRONMENTAL CONDITIONS FOR GROWTH OF STRAINED MARINE ALGAL FLAGELLATES
SAM-TDR-63-91 N64-16643 08-16

GROWTH AND NONGROWTH OF VARIOUS MICROORGANISMS IN JET FUELS, LUBRICANTS, AND HYDROCARBONS
RTD-TDR-63-4117, PT. 1 N64-18029 10-26

SURVIVAL OF TERRESTRIAL MICROORGANISM UNDER SIMULATED MARTIAN CONDITIONS N64-19583 12-99

COLLECTING MICROORGANISMS IN UPPER ATMOSPHERE
AD-428703 N64-19877 12-16

MECHANICAL TECHNIQUES FOR KILLING, REMOVING OR CONTROLLING MICROORGANISMS IN HYDROCARBON FUELS
ASD-TDR-63-242 N64-19892 12-16

HYDROGEN PRODUCTION BY MICROORGANISMS - BIOCHEMICAL FUEL CELL RESEARCH
QPR-6 N64-20121 13-06

MICROORGANISM TRANSMISSION BETWEEN TWO HUMAN BODIES IN SIMULATED SPACE CABIN
SAM-TDR-64-3 N64-21595 15-16

RADIOISOTOPIC DETECTION OF MICROBIAL CONTAMINATION PRESENT IN JET FUEL
ADR-09-08A-63.1 N64-22129 15-26

NEW FREELY LIVING NITROGEN FIXING MICROORGANISMS - SOIL ENRICHMENT
FTD-TT-63-1010/1 N64-22141 15-16

ELASTOMERS FOR AIRCRAFT FUEL TANK COATINGS CONTAINING MICROORGANISM RESISTING ADDITIVES
RTD-TDR-63-4195 N64-22282 15-17

EFFECT OF SIMULATED SPACE ENVIRONMENTS ON VIABILITY OF MICROORGANISMS
NASA-CR-50333 N64-22752 16-16

DETECTION OF MICROORGANISMS IN UPPER ATMOSPHERE - ELECTROSTATIC PREPITATOR MODIFICATION, GENERATION OF TEST AEROSOLS, AND DESIGN OF FLIGHT SAMPLER
NASA-CR-50261 N64-22763 16-15

PROPERTIES AND CHARACTERIZATION OF MICROORGANISMS BY NUTRITIONAL REQUIREMENTS
NASA-CR-50397 N64-22768 16-16

EXISTENCE AND IDENTITY OF VIABLE MICROORGANISMS IN STRATOSPHERE
NASA-CR-50698 N64-22769 16-16

EFFECTS OF SIMULATED SPACE ENVIRONMENTS ON VIABILITY OF MICROORGANISMS
NASA-CR-56524 N64-22785 16-16

EFFECT OF SIMULATED SPACE ENVIRONMENT ON VIABILITY OF MICROORGANISMS - ULTRAVIOLET RADIATION EFFECT
NASA-CR-56525 N64-22786 16-16

TERRESTRIAL MICROORGANISMS IN SIMULATED PLANETARY ENVIRONMENT - MARS AND MOON
NASA-CR-56529 N64-22790 16-16

TEST MICROORGANISMS, BASAL MEDIA, ANTIMETABOLITES, AND RADIATION DETECTION INSTRUMENTATION FOR EXTRATERRESTRIAL LIFE PROBE
NASA-CR-56532 N64-22793 16-16

EFFECT OF SPACE FACTORS ON MITOSIS IN MICROORGANISMS DURING FLIGHT
NASA-TT-F-8825 N64-23042 16-16

NITROGEN-FIXATION, CHLOROPHYLL, AND TEMPERATURE CONTROL STUDIES IN ALGAE AND MICROORGANISMS
FTD-TT-63-1016/1&2 N64-23655 16-16

AUTOMATIC TEMPERATURE CONTROL SYSTEM FOR MICROORGANISM CULTURES N64-23658 16-16

SURVIVAL OF MICROORGANISMS IN SIMULATED ENVIRONMENT OF MARS SURFACE N64-25115 17-16

EFFECT OF MICROORGANISMS ON NATURAL AND SYNTHETIC RUBBER - BIBLIOGRAPHY
PDL-50015 N64-26322 18-07

CHEMICAL AND RADIATION STERILIZING AGENTS - BIBLIOGRAPHY OF EFFECTS ON MICROORGANISMS
NASA-CR-58123 N64-26372 18-16

MICROORGANISMS IN PERMAFROST
FTD-TT-63-929/1&2 N64-29018 20-16

EFFECT OF SPACE FLIGHT ON MICROSPORES ABOARD VOSTOK V AND VI SPACECRAFT N64-29091 21-16

PIGMENTS FOUND IN PHOTOSYNTHETIC MICROORGANISMS, AND ELECTRON SPIN RESONANCE SIGNALS
AD-602394 N64-32295 23-16

EVALUATION OF COATING MATERIALS FOR FUEL SYSTEMS BY EXPOSURE TO MICROORGANISM-INOCULATED FUEL-WATER SYSTEM
QR-5 N64-32451 23-19

VIABILITY OF MICROORGANISMS IN SIMULATED SPACE
NASA-CR-59092 N64-33099 24-16

BACTERIAL CELL ENZYMES CONTRIBUTING TO VIRULENCE AND PATHOGENICITY OF MICROORGANISMS
JPRS-27146 N64-33345 24-16

JP-4 JET FUEL HANDLING PROCEDURES RELATING TO MICROORGANISM CONTAMINATION
SEG-TDR-64-29 N64-33745 24-17

MICROPHONE
HIGH PERFORMANCE NOISE-CANCELLING MICROPHONE FOR SPEECH COMMUNICATIONS IN SPACE - SPEECH TRANSMISSION AND HELMET COMFORT
CLD-1707 N64-31933 23-08

ATMOSPHERIC TURBULENT PRESSURE CORRELATION OF MULTIPORT MICROPHONES N64-32256 23-08

INFRASONIC PRESSURE MICROPHONE WITH SOLION TRANSDUCER FOR STUDYING ATMOSPHERIC ACOUSTICS N64-32258 23-15

LOW-FREQUENCY, LOW NOISE MICROPHONES N64-32259 23-15

BELLOWSPHONE CALIBRATOR FOR DETERMINING FREQUENCY AND PHASE RESPONSE OF INFRASONIC PRESSURE MICROPHONES N64-32260 23-15

WIND EFFECTS ON ACOUSTIC FOCUSING N64-32262 23-23

MICROPULSATION
SA GEOMAGNETIC MICROPULSATION
MAGNETOTELLURIC MICROPULSATIONS AT WIDELY SEPARATED STATIONS
AFCRL-64-10 N64-17319 09-12

GEOMAGNETISM, IONOSPHERIC ABSORPTION, AURORAL RADAR ECHOS, RADIO WAVE PROPAGATION, MICROPULSATIONS & EARTH CURRENTS
AD-602884 N64-30565 22-12

USE OF ANALOGOUS INDUCTION DEVICES AT CONJUGATE POINTS OF MIDDLE LATITUDES FOR OBSERVATIONS OF MAGNETIC MICROPULSATIONS IN FREQUENCY BAND
NASA-TT-F-8979 N64-33386 24-12

MICROSCOPE
ELECTRON MICROSCOPE ANALYSIS OF IRON DIFFUSION INTO SODIUM DISILICATE GLASS ROD
UCRL-11116 N64-14400 06-25

UNIVERSAL MEASURING MICROSCOPE
FTD-TT-64-7/1&2 N64-22040 15-15

ULTRAVIOLET FLUORESCENCE MICROSCOPE
FTD-TT-63-1178/1&2&4 N64-25457 17-23

DETECTION OF POLYETHYLENE SINGLE CRYSTALS DEPOSITED ON REFLECTING SUBSTRATE USING INCIDENT LIGHT MICROSCOPE N64-28650 20-25

AUTOMATIC CHROMOSOME ANALYSIS - AUTOMATIC MICROSCOPE, DIGITAL SCANNER, AND COMPUTER PROGRAM
NASA-CR-58533 N64-29698 21-15

DATA TRANSMISSION FROM AUTOMATIC MICROSCOPE TO DIGITAL SCANNER AND COMPUTER FOR BIOMEDICAL RESEARCH
NASA-CR-58872 N64-33042 24-15

BRITTLE BEHAVIOR OF BERYLLIUM OBSERVED WITH TRANSMISSION ELECTRON MICROSCOPE
ASD-TDR-62-509, VOL. IV N64-33269 24-18

MICROSCOPY
SA ELECTRON MICROSCOPY
LITERATURE REVIEW OF TELEVISION MICROSCOPY IN BIOLOGY AND MEDICINE
JPRS-18229 N64-10501 01-16

INTERFERENCE SEPARATION MIRRORS WITH LOW AND HIGH ALTERNATING REFRACTIVE INDICES IN FLUORESCENT MICROSCOPY
JPRS-19786 N64-11130 02-15

FLUORESCENT MICROSCOPIC INVESTIGATION OF FORMED ELEMENTS IN BLOOD AND BONE MARROW DURING RADIATION SICKNESS N64-12782 04-16

THERMAL DESORPTION AND SURFACE DIFFUSION OF CESIUM COATINGS ON TUNGSTEN SUBSTRATE - PULSED-FIELD-EMISSION MICROSCOPY INVESTIGATION
NASA-CR-22 N64-12912 04-25

BITTER COLLOID METHOD AND EQUIPMENT FOR OBSERVING FERROMAGNETIC DOMAINS BY LIGHT MICROSCOPY
ASD-TDR-63-83 N64-14317 06-23

COMPARATIVE EVALUATION OF BACTERIA COLLECTOR EFFECTIVENESS USING FLOW ULTRAMICROSCOPE TO DETERMINE BACTERIAL AEROSOL CONCENTRATION
JPRS-23283 N64-15293 07-16

X-RAY DIFFRACTION AND OPTICAL MICROSCOPIC DATA ON PHASES IN BINARY OXIDES
BM-RI-6428 N64-19294 11-19

COLOR IDENTIFICATION OF TRANSPARENT CRYSTALLINE PARTICLES WITH OPTICAL MICROSCOPE
ERDA-165 N64-26205 18-07

CESIUM MIGRATION ON REFRACTORY METALS USING FIELD EMISSION MICROSCOPY
AFCRL-64-328 N64-28567 20-23

DESORPTION & MIGRATION OF STRONTIUM ON TUNGSTEN BY PULSED FIELD EMISSION MICROSCOPY
AD-421552 N64-31698 23-07

MICROSTRUCTURE
STRUCTURE OF METALLIC IRON PARTICLES, TROILITE, AND SILICATE CONTENT IN CHONDRITES
AID-T-63-122 N64-12023 03-05

MICROSTRUCTURE OF TITANIUM ALLOY - FORGING AT TEMPERATURES ABOVE & BELOW BETA TRANSUS N64-13138 04-18

MICROSTRUCTURE IN LINEAR ELASTICITY
T. R.-50 N64-13240 04-23

FABRICATION HISTORY, MICROSTRUCTURE, AND MECHANICAL PROPERTIES OF REFRACTORY METALS AND ALLOYS
DMIC-186 N64-13970 05-18

MACHINING TESTS OF TITANIUM-ZIRCONIUM-MOLYBDENUM AND MOLYBDENUM-TITANIUM ALLOYS, AND THEIR MICROSTRUCTURE AND CHEMICAL COMPOSITION
ASD-TDR-63-581 N64-14873 06-17

DISLOCATION EFFECTS ON MICROSTRUCTURE OF INDIUM FUSED INTO GERMANIUM N64-15016 07-25

ULTRAVIOLET ABSORPTION SPECTRA FROM PARTS OF METEORITIC MICROSTRUCTURE N64-16035 07-07

HIGH TEMPERATURE ALLOYS AND ALLOY MICROSTRUCTURE
FTS-9848/1&2&4 N64-17026 09-18

CHANGES IN MICROSTRUCTURE, HARDNESS, AND ELECTRIC CONDUCTIVITY DURING CREEP IN HIGH TEMPERATURE STEELS N64-17027 09-18

HARDENING AND SOFTENING MECHANISM IN CRYSTAL LATTICES - MICROSTRUCTURE THEORY N64-17050 09-25

TENSILE FRACTURE, MICROSTRUCTURE, AND CHEMICAL COMPOSITION OF URANIUM
BMI-1664 N64-17298 09-18

INFLUENCE OF MICROSTRUCTURE ON MECHANICAL PROPERTIES OF CERAMICS
HR-63-264 N64-17441 09-25

INFLUENCE OF THERMAL TREATMENTS ON MICROSTRUCTURE AND MECHANICAL PROPERTIES OF ALUMINUM-ALUMINUM OXIDE ALLOYS
NASA-CR-53558 N64-18305 10-23

DETERMINATION OF MICROSTRUCTURE OF FLAME FRONTS
AD-429928 N64-18744 11-26

MICROSTRUCTURE OF GUESS PROCESSES - PROBABILITY LEARNING
AD-600474 N64-21312 14-14

MICROSTRUCTURE OF STONY METEORITES
N64-21389 14-05

SINGLE CRYSTAL AND POLYCRYSTALLINE TITANIUM DIBORIDE - MICROSTRUCTURE AND MICROHARDNESS
ML-TDR-64-32 N64-21471 14-25

MICROSTRUCTURE OF ORGUEIL METEORITE
NASA-CR-55366 N64-22766 16-05

MICROSCOPIC EXTRATERRESTRIAL PARTICLES FROM ANTARCTIC PENINSULA
NASA-TM-X-51131 N64-22778 16-29

METEORITE MICROSTRUCTURES AND ORGANIC MATTER IN CARBONACEOUS METEORITE
NASA-CR-56535 N64-22796 16-07

MICROSTRUCTURE OF INTERNAL MAGNETIC FIELD IN FERRO-, FERRI-, AND ANTIFERROMAGNETIC SOLIDS
ML-TDR-64-58 N64-25592 17-23

MAGNETIC AIR BRAKE FOR TEST OF GAS MICROTURBINES
FTD-MT-63-293 N64-26731 18-17

IMPURITY EFFECTS ON ZIRCALOY-2 MICROSTRUCTURE, MECHANICAL PROPERTIES, AND CORROSION RATES
BM-RI-6536 N64-30398 22-18

MICROSTRUCTURES IN TANTALUM-CARBON SYSTEM
NASA-RP-319 N64-31004 22-18

MICROSTRUCTURE AND MECHANICAL PROPERTIES OF CAST IRON WITH YTTRIUM AS NODULIZER
REPT.-64-730 N64-31041 22-18

ALLOY EFFECTS ON ROOM TEMPERATURE TENSILE PROPERTIES AND MICROSTRUCTURE OF TUNGSTEN-FIBER REINFORCED COPPER ALLOY COMPOSITES
NASA-RP-311 N64-31442 23-17

MECHANICS OF MICROMORPHIC MATERIALS
TR-26 N64-32220 23-23

EXTRUSION, RECRYSTALLIZATION, AND MICROSTRUCTURE OF TUNGSTEN ALLOYS
AD-445063 N64-33752 24-18

MICROTRON
DEVELOPMENT STATUS OF 2.5 TO 5.0-MEV MICROTRON
LNF-63/73 N64-13178 04-23

MICROWAVE
SA INFRARED RADIATION
CF MILLIMETER WAVE
MASS SPECTROMETRIC AND MICROWAVE MEASUREMENTS OF ATMOSPHERIC ION REACTIONS
GA-4431 N64-12170 03-23

MICROWAVE MODIFICATION OF X-RAY LETHALITY IN MICE
RADC-TDR-63-352 N64-12270 03-16

ATMOSPHERIC DISPERSION AND ABSORPTION OF MICROWAVES
AFCRL-63-500 N64-12286 03-09

BIOLOGICAL EFFECT OF MICROWAVES ON ORGANISMS
JPRS-22580 N64-12357 03-16

AIR-TO-AIR & GROUND-TO-AIR MICROWAVE PROPAGATION STUDIES FOR AIRBORNE COMMUNICATION SYSTEM
AD-424617 N64-13113 04-09

MICROWAVE AND QUANTUM ELECTRONICS
REPT.-05000-8-5 N64-13892 05-09

MICROWAVE COUPLING AND ENERGY PARTITION AND TRANSFER WITHIN PLASMA GAS COMPOSITION
AFCRL-63-199/1/ N64-14218 06-24

CLEANUP AND THERMAL RECOVERY OF INERT GASES AT INTERFACE BETWEEN HIGH POWER MICROWAVE DISCHARGE AND QUARTZ SURFACES
SCL-5794 N64-16852 08-09

RADIO ASTRONOMY - MILLIMETER AND MICROWAVE TECHNIQUES AND OBSERVATIONS N64-17877 10-05

MICROWAVE INTERACTION WITH BOUNDED GYROELECTRIC PLASMAS
TR-31 N64-20129 13-24

RADAR EQUIPMENT, SIGNAL PROCESSING, RANGE MEASUREMENT, AND MICROWAVE COMPONENTS
ESD-TDR-64-41 N64-20300 13-09

ATMOSPHERIC REFRACTION EFFECTS IN MICROWAVE MEASUREMENTS OF RANGE AND AZIMUTH
NBS-8231 N64-20431 13-08

LARGE SIGNAL MICROWAVE EFFECTS IN FERROELECTRIC MATERIALS
SJ-230-0048-2 N64-21367 14-23

MICROWAVE INVESTIGATION OF DIELECTRIC WAVEGUIDE PROPAGATION BY MAGNETO-IONIC DUCTS
AFCRL-64-219 N64-21447 14-24

ORIENTATION DEPENDENCE OF CRITICAL MICROWAVE FIELD STRENGTH IN PARALLEL FIELD OF MANGANESE-MAGNESIUM COBALT-FERRITE SINGLE CRYSTAL
AFCRL-63-55 N64-21470 14-25

NONLINEAR EFFECTS IN MICROWAVE PROPERTIES OF FERROMAGNETIC MATERIALS
AD-433873 N64-21474 14-23

CESIUM BEAM OPTICS, C-FIELD HOMOGENEITY, MAGNETIC SHIELDING, AND MICROWAVE STRUCTURES
REPT.-1 N64-21518 15-23

PROPERTY STUDY OF MICROWAVE RESONANCE IN MOLECULAR STRUCTURE
AROD-2812-2 N64-21565 15-23

DETECTION TECHNIQUES FOR LIGHT MODULATED AT MICROWAVE FREQUENCY - FM DEMODULATION SCHEMES
EDL-M670 N64-22115 15-23

ULTRASONIC WAVE & MICROWAVE RADIO COMMUNICATION TRANSMITTER SITE SELECTED BY LIGHT ILLUMINATION AND DIFFRACTION ON EARTH SHAPE
FTD-TT-64-30/162 N64-22158 15-08

MICROWAVE DETECTION OF HYDROXYL RADICAL IN INTERSTELLAR MEDIUM N64-22366 15-29

MICROWAVE POWER LEVELER FOR K-BAND
TR-9 N64-22457 15-15

MICROWAVE DUPLEXER SWITCHING MECHANISM
REPT.-2 N64-22494 15-09

RESPONSE OF CESIUM.OPTICAL PUMPING SYSTEM TO AUDIOMODULATED MICROWAVE SIGNALS - MIROS PROGRAM
NASA-CR-56566 N64-24124 16-06

MICROWAVE AND ELECTRON BEAM INTERACTIONS WITH FINITE PLASMA
RADC-TDR-64-117 N64-24172 16-24

TRANSIENT SOLUTIONS FOR CLASS OF PULSE DIFFRACTION PROBLEMS IN MICROWAVE THEORY
PIBMRI-1209-64 N64-24177 16-23

MICROWAVE GENERATION BY INTERACTION BETWEEN ELECTRON BEAMS AND PLASMA OR PYROLYTIC GRAPHITE
S-638 N64-24233 16-08

EFFECT OF WALL ILLUMINATION ON PERFORMANCE OF ANECHOIC CHAMBER IN MICROWAVE REGION IN MEASURING RADAR REFLECTION PROPERTIES OF MATERIALS & OBJECTS
N64-24288 17-08

INTERACTION BETWEEN MICROWAVES AND PLASMAS IN GAS DISCHARGES AND SEMICONDUCTORS
RADC-TDR-64-93 N64-24668 17-09

MICROWAVE EMISSION FROM CYLINDRICAL PLASMA
N64-24676 17-24

LINEAR BEAM AND MICROWAVE POWER GENERATION
RADC-TDR-64-140, VOL. 1 N64-24785 17-23

P-N TUNNEL DIODE JUNCTION STRUCTURE FOR MICROWAVE GENERATION
AL-TDR-64-129 N64-25330 17-09

BROADBAND MICROWAVE POWER LIMITERS - SCALING, BIAS CRYSTALS, DIODE MOUNTS, AND LOW POWER PERFORMANCE OF L BAND-S BAND UNIT
QPR-3 N64-25527 17-09

NONLINEAR EFFECTS IN MICROWAVE PROPERTIES OF FERROMAGNETIC MATERIAL
QPR-8 N64-25658 17-23

MICROWAVE GENERATION BY ELECTRON BEAM INTERACTION WITH ANISOTROPIC MEDIA
REPT.-2 N64-25693 17-24

COUPLED MODE THEORY FOR MICROWAVE DEVICES - MATRIX ALGEBRA
IR-8 N64-25859 18-08

CROSSED-RECTANGLE TRANSDUCER FOR MICROWAVE COUPLING OF RECTANGULAR TO CIRCULAR WAVEGUIDES
USAELRDL-TR-2389 N64-26296 18-08

VERIFICATION OF HOT PLASMA THEORY FOR MICROWAVE PROPAGATION AT SECOND HARMONIC ELECTRON CYCLOTRON RESONANCE
MATT-265 N64-26540 18-24

MICROWAVE INTERACTIONS IN DISTRIBUTED SEMICONDUCTOR STRUCTURES & SOLID STATE ULTRASONIC AMPLIFIERS AND TRANSDUCERS
QR-4 N64-26850 18-25

DIRECTIONAL CRYSTAL COUPLER DEVICE USED IN FRONT OF INPUT SWITCHING DIODE - BROADBOND MICROWAVE POWER LIMITERS
QR-4 N64-26939 18-08

MICROWAVE TREATMENT OF DISEASES
JPRS-26038 N64-27670 19-16

MICROWAVE RESEARCH - PIEZOELECTRIC SEMICONDUCTORS, OPTICAL MASERS, MICROWAVE PROPAGATION, LIGHT WAVE DIFFRACTION, AND LASER BEAMS
ML-1192 N64-27737 19-25

ROTATING-FIELD PHASER UTILIZING FERRITE MICROWAVE PROPERTIES
ESD-TDR-64-422 N64-28022 20-09

MICROWAVE CAVITY TECHNIQUES FOR SPATIAL DISTRIBUTION OF ELECTRONS IN PLASMA COLUMNS AND MEASUREMENT OF THERMAL RADIATION FROM HIGHLY IONIZED CURRENT CARRYING PLASMA
USCEC-103-101 N64-28617 20-24

APPLICATION OF LARGE SIGNAL NONLINEAR MICROWAVE EFFECTS IN FERROELECTRIC MATERIALS TO MICROWAVE POWER LIMITERS, PARAMETRIC AMPLIFIERS, AND HARMONIC GENERATORS
QR-3 N64-29653 21-25

NONLINEAR & LINEAR MICROWAVE PROPAGATION, OPTICAL SPECTROSCOPY OF LASER MATERIALS, AND NONLINEAR QUANTUM MECHANICS OF LASERS
ML-1189 N64-30190 21-24

MICROWAVE STUDY OF ELECTRON SPATIAL DISTRIBUTION IN PLASMA N64-30358 22-24

APPARATUS FOR SYNCHRONIZED TREATMENT OF BIOLOGICAL ORGANISMS WITH PULSE MODULATED MICROWAVES N64-30396 22-16

PLASMA OSCILLATIONS IN ANISOTROPIC MATERIALS FOR MICROWAVE POWER GENERATION AND AMPLIFICATION - PYROLYTIC GRAPHITE
REPT.-1 N64-30763 22-24

RESEARCH IN MICROWAVE AND QUANTUM ELECTRONICS - PLASMA AND LOW NOISE TECHNIQUES
AL-TDR-64-158 N64-32672 23-24

RUBY OPTICAL SPECTRUM - ABSORPTION AMONG ZEEMAN COMPONENTS OF R & B LINES AND OPTICAL DETECTION OF MICROWAVE RESONANCE IN GROUND STATE
TR-437 N64-33872 24-25

MICROWAVE ANTENNA
SA LUNEBERG LENS
OPTIMUM CURVATURE BEAM FOR REFLECTED WAVE OF PERISCOPE IN MICROWAVE RELAY ANTENNAS
RM-3930-PR N64-12172 03-08

FEED SYSTEM FOR CIRCULAR SYMMETRIC GEODESIC MICROWAVE LENS ANTENNAS
REPT.-1394-12 N64-20357 13-09

GEODESIC LUNEBERG LENSES AND APPLICATION TO HIGH GAIN MICROWAVE ANTENNA SYSTEMS
REPT.-1394-13 N64-20539 13-09

APPLICATION OF FRESNEL ZONE THEORY IN DESIGNING OF SPHERICAL REFLECTOR FOR MICROWAVE ANTENNA SYSTEMS
AFCRL-62-950 N64-21084 14-08

MICROWAVE APPARATUS
MICROWAVE COMMUNICATIONS REPEATER OF TELSTAR N64-10873 02-32

NOISE CHARACTERISTICS OF HIGH POWER MICROWAVE AMPLIFIERS
TR-62 N64-11750 03-09

OPTIMUM CURVATURE BEAM FOR REFLECTED WAVE OF PERISCOPE IN MICROWAVE RELAY ANTENNAS
RM-3930-PR N64-12172 03-08

EFFECTS OF NUCLEAR RADIATION ON ELECTRONIC COMPONENTS AND OPERATING CIRCUITS - MICROWAVE DEVICES
AD-423158 N64-12300 03-23

MICROWAVE WATTMETER WITH MILLIWATT MEASUREMENT CAPABILITY
FTD-TT-63-992 N64-12627 04-15

EXTENSION OF USEFUL FREQUENCY SPECTRUM AND MICROWAVE SPECTRUM SYSTEMS IMPROVEMENT
NDL-Q5 N64-13239 04-09

ELECTRON BEAM AND PLASMA INTERACTIONS FOR MICROWAVE POWER SYSTEMS
RADC-TDR-63-465, VOL. 1 N64-13791 05-24

ADVANCED MICROWAVE COMPONENTS AND TECHNIQUES - PLANAR HEXAGONAL FERRITES AND YTTRIUM-IRON GARNET CRYSTALS
RADC-TDR-63-508 N64-14312 06-19

MICROWAVE BROADBAND TRANSISTOR AMPLIFIERS FOR PHASED ARRAY RADAR APPLICATIONS
RE-TM-63-4 N64-14353 06-09

MICROWAVE RESEARCH - ELECTROMAGNETICS, PLASMA ELECTROPHYSICS & ELECTRONICS, SOLID STATE & MATERIALS RESEARCH, MICROWAVE CIRCUITS & SYSTEMS
R-452.24-63 N64-14826 06-23

MICROWAVE WAVEGUIDE CIRCUIT TO SHOW ELECTRON CYCLOTRON RESONANCE INTERACTION
RADC-TDR-63-509 N64-14967 06-24

SELECTION OF MATERIALS FOR HIGH POWER MICROWAVE AMPLIFIERS SUITABLE FOR SPACE OPERATION
RADC-TDR-64-7 N64-15057 07-09

SOLID STATE MICROWAVE AMPLIFIERS WITH DIRECT OR ALTERNATING LOCAL POWER N64-15114 07-09

VERY SHORT PULSE AMPLIFICATION STUDY USING HIGH POWER MICROWAVE AMPLIFIERS N64-16136 08-09

BROADBAND LOW NOISE MICROWAVE AMPLIFIER USING CERAMIC TRIODES
RE-TR-63-32 N64-17324 09-09

EXTENSION OF USEFUL FREQUENCY SPECTRUM FOR MICROWAVE DEVICES
NDL-Q6 N64-17643 09-23

WATER RECOVERY FROM URINE BY FREEZE DRYING PROCESS USING MICROWAVE ENERGY SOURCE
AMRL-TDR-63-130 N64-18789 11-16

TUNABLE RESONANT COAXIAL MICROWAVE CAVITY - DESIGN PROCEDURE AND CONSIDERATIONS
AFCRL-64-58 N64-18793 11-25

USE OF FOCUSED FABRY-PEROT INTERFEROMETER AT

MICROWAVE FREQUENCIES FOR PLASMA DIAGNOSTICS
TM-63-210 N64-19083 11-24

K-BAND ABSORPTION MODULATOR FOR HIGH SPEED SWITCHING OR AMPLITUDE MODULATION OF MICROWAVE POWER
TR-1151 N64-19240 11-15

COUPLED MODE THEORY FOR ADVANCED MICROWAVE APPARATUS
IR-7 N64-19962 12-09

MICROWAVE COMPONENTS AND TECHNIQUES - PLANAR HEXAGONAL FERRITES AND DEVICES
RADC-TDR-64-78 N64-22276 15-25

MARINER II SPACECRAFT MICROWAVE RADIOMETER EXPERIMENT & VENUS SPACE PROBE N64-22439 15-32

MICROWAVE DUPLEXER SWITCHING MECHANISM
REPT.-2 N64-22494 15-09

PROPERTIES, ADVANTAGES, AND DEFECTS OF MICROWAVE TUNNEL DIODES
EDL-M609 N64-22712 15-09

DOUBLE-QUANTUM PHOTOELECTRIC EFFECT, AND GAIN OF BEAM-PLASMA INTERACTION IN MICROWAVE AMPLIFIERS
RADC-TDR-64-140, VOL. II N64-24171 16-09

DIELECTRIC PROPERTIES OF MATERIALS FOR USE IN MICROWAVE APPARATUS N64-24318 17-25

L BAND MICROWAVE AMPLIFIER FOR USE IN PHASED ARRAY RADAR SYSTEMS - FOCUSING OF TRAVELING WAVE TUBE
MTPR-22 N64-26643 18-08

ADVANCED MICROWAVE COMPONENTS AND TECHNIQUES - PLANAR HEXAGONAL FERRITES AND DEVICES
RADC-TDR-64-242 N64-26938 18-25

MICROWAVE DEVICES AND QUANTUM ELECTRONICS
REPT.-05772-4-P N64-27625 19-09

BIOINSTRUMENTATION - BIOACOUSTIC STIMULATOR, ELECTROGASTROGRAPH, MICROWAVE THERAPY APPARATUS, AND PROGRAM TIMER
JPRS-26037 N64-27927 20-15

COUPLED MODE THEORY FOR ADVANCED MICROWAVE DEVICES
T-G-200 N64-28915 20-23

SOLID STATE MICROWAVE GENERATORS - NEGATIVE RESISTANCE AND CURRENT GAIN
REPT.-5 N64-29419 21-09

MICROWAVE SOLID-STATE DEVICES
USAEL-TR-2476 N64-32440 23-09

MICROWAVE CIRCUIT
MICROWAVE CIRCUIT THEORY OF LASER OPERATION
RN-163 N64-14874 06-25

DEVELOPMENT OF CIRCULAR DOT AND DISTRIBUTED JUNCTION DIODES AND OF STRIPLINE AND WAVEGUIDE OSCILLATOR CIRCUITS
AD-431542 N64-16988 09-09

ENGINEERING OF GERMANIUM MICROWAVE CIRCUIT TRANSISTORS
REPT.-13 N64-19109 11-09

EXTENDING GEOMETRIC-ALGEBRAIC TECHNIQUES TO REPRESENTATION OF MULTIPORT NETWORKS - MICROWAVE CIRCUIT THEORY
AFCRL-64-129 N64-19644 12-08

MICROWAVE FERRITE PHASE-SHIFTER
TR-1189 N64-19929 12-09

REDUCTION OF DIELECTRIC GAS LEAKAGE FROM HIGH POWER MICROWAVE SYSTEM BY DILUTION WITH OTHER GAS
RADC-TDR-64-67 N64-20028 13-11

HIGH POWER HIGH VOLTAGE RESEARCH FACILITY - TRANSMISSION LINES, MICROWAVE COMPONENTS, LASERS, AND RADIATION WEAPONS
EB-5296-0359-2 N64-24067 16-09

FERROMAGNETIC AND FERROELECTRIC MATERIALS FOR MICROWAVE AND RADIO FREQUENCY CIRCUITRY
AFCRL-64-309 N64-24176 16-09

SOLID STATE PHYSICS & ULTRASONIC PROPERTIES OF MICROWAVE DELAY LINES
RADC-TDR-64-22 N64-24181 16-09

PLASMA WAVE PROPAGATION IN WAVEGUIDES OR MICROWAVE CIRCUITS N64-27999 20-24

PLASMA APPLICATIONS IN MICROWAVE CIRCUITS, WITH OR WITHOUT STATIC MAGNETIC FIELD
RADC-TDR-64-244 N64-33305 24-24

MICROWAVE RESEARCH IN ELECTROMAGNETICS, PLASMA ELECTROPHYSICS & ELECTRONICS, SOLID STATE & MATERIALS, MICROWAVE CIRCUITS, NETWORK THEORY, AND SYSTEMS, COMMUNICATIONS, & CONTROL
R-452.25-64 N64-33415 24-09

MICROWAVE CIRCUIT DEVICES TO CONTROL COHERENT OPTICAL BEAMS USING BIREFRINGENT CRYSTALS - LASER RADIATION
RM-234J N64-33839 24-25

MICROWAVE FREQUENCY
MICROWAVE-FREQUENCY ASPECTS OF ELECTRON-BEAM-INDUCED PLASMA SYSTEM - OSCILLATION AND PROPAGATION MODES
AFCRL-63-381 N64-13621 05-24

BEACON VIDEO CHANNEL PERFORMANCE OF FAA RML-4 RADAR MICROWAVE LINK
CER-D1695 N64-14910 06-08

GENERATION OF INFRAMILLIMETRIC WAVES BY MEANS OF ELECTRONIC BEAMS
RADC-TDR-63-29 N64-15058 07-09

LOW NOISE AMPLIFICATION AT MICROWAVE FREQUENCIES UTILIZING TUNNELING THROUGH THIN FILMS
RADC-TDR-63-321 N64-15126 07-09

MICROWAVE FREQUENCY DIELECTRIC MEASUREMENTS OF NONMETALLIC INORGANIC REFRACTORY MATERIALS FOR RADOME APPLICATIONS AT ELEVATED TEMPERATURES
AD-432141 N64-16846 08-19

LINEAR ELECTRON BEAM AND MICROWAVE POWER GENERATION
RADC-TDR-63-555 N64-17923 10-09

WATER-CLOUD INTERPRETATION OF VENUS ATMOSPHERE MICROWAVE BRIGHTNESS DETERMINATION
RM-4060-PR N64-18788 11-29

USE OF FOCUSED FABRY-PEROT INTERFEROMETER AT MICROWAVE FREQUENCIES FOR PLASMA DIAGNOSTICS
TM-63-210 N64-19083 11-24

MICROWAVE AND RADIO FREQUENCY INDUCTION COUPLED PLASMA TORCH N64-19833 12-24

MODULATION OF LINEAR ELECTRO-OPTIC EFFECT AT MICROWAVE FREQUENCIES
NR-372-012 N64-26518 18-25

PHOTOSENSITIVE IMAGE DETECTOR TO RESPOND TO MODULATION AT MICROWAVE FREQUENCY
RADC-TDR-64-221 N64-27457 19-15

MICROWAVE POWER GENERATION AND AMPLIFICATION USING DOUBLE STREAM INSTABILITIES IN ANISOTROPIC MEDIA - PYROLYTIC GRAPHITE
QPR-2 N64-28224 20-25

CIRCUIT SENSITIVITY FOR DIRECT DETECTION OF AMPLITUDE FLUCTUATION OF MICROWAVE GENERATORS N64-29468 21-09

ELECTRIC RESONANCE OF HYDROGEN SULFIDE AT MICROWAVE FREQUENCIES
OR-3959 N64-30014 21-25

PHASE MODULATION MEASURING OR RAPID PHASE CHANGES OF MICROWAVE SIGNAL
MATT-273 N64-31020 22-15

NANOSECOND-PULSE BREAKDOWN DATA AT MICROWAVE FREQUENCIES OF GASES FOR RADAR TRANSMITTERS
RADC-TDR-64-204 N64-31910 23-24

EFFICIENCY CALCULATIONS OF MICROWAVE FREQUENCY MULTIPLIERS
REPT.-1 N64-32623 23-09

COMPARATIVE INVESTIGATION OF VARICAP AND FERROELECTRIC IN DECIMETER BAND - MICROWAVE-CONTROLLED DEVICES N64-32916 24-09

MEASUREMENT INSTRUMENTS AND TRANSMISSION AT MICROWAVE FREQUENCIES N64-32917 24-09

MICROWAVE INTERFEROMETER
PISTON MOTION IN HYPERSONIC GUN TUNNEL - MICROWAVE MEASUREMENT
CP-4 N64-15926 07-08

MICROWAVE PLASMA PROBE
MICROWAVE HORN ANTENNA CHARACTERISTICS IN PRESENCE OF PLASMA SHEATH GENERATED IN HELIUM
AFCRL-63-541 N64-14368 06-09

PLASMA DIAGNOSTICS USING ELECTROMAGNETIC MICROWAVE TECHNIQUE N64-19842 12-24

MICROWAVE DETECTOR FOR WAVE-PLASMA INTERACTION
R-8-63-2 N64-33657 24-24

MICROWAVE PROBE
INSTRUMENTATION FOR REMOTE MICROWAVE PROBING OF ATMOSPHERE
NBS-7698 N64-20327 13-15

ABSORPTION CORRECTION TABLES FOR MICROPROBE ANALYSIS
NLCO-914 N64-31470 23-23

MICROWAVE RADIATION
MICROWAVE RADIATION FROM DC DISCHARGE PLASMA IN MAGNETIC FIELD
IPPJ-13 N64-13027 04-24

DOSIMETRIC METHODS IN MICROWAVE AND DECIMETER-WAVE THERAPY - HOUSINGS FOR ELECTRONIC EQUIPMENT
JPRS-23167 N64-14920 06-10

TEMPERATURE REACTION OF SKIN DURING LOW INTENSITY MICROWAVE IRRADIATION
JPRS-23287 N64-15335 07-16

MICROWAVE THEORY - BREAKDOWN OF GASES BY RUBY LASER RADIATION
REPT.-1579-7 N64-15371 07-25

CONTINUOUS WAVE CERENKOV MICROWAVE RADIATION GENERATED BY INTERACTION OF MODULATED FLAT RIBBON ELECTRON BEAM WITH SCALER DIELECTRIC REACTOR
RADC-TDR-64-103 N64-20032 13-25

MICROWAVE RADIATION AT CYCLOTRON HARMONICS IN A POSITIVE COLUMN IN ARC DISCHARGE
IPPJ-23 N64-22006 15-24

EFFECT OF MICROWAVE RADIATION ON EYES
FTD-TT-63-1070/1&2 N64-23438 16-09

ANOMALOUS MICROWAVE RADIATION AT CYCLOTRON RESONANCE IN PARTIALLY IONIZED PLASMAS
IPPJ-25 N64-26740 18-24

COMPARISON OF SOLAR X-RAYS WITH MICROWAVE RADIATION USING ORBITING SOLAR OBSERVATORY /OSO/ DATA N64-30268 22-28

FAST WAVE INTERACTION MECHANISMS BETWEEN MICROWAVE RADIATION AND PLASMA OR ELECTRON GAS IN UNIFORM MAGNETIC FIELD
AFCRL-64-445 N64-31987 23-24

EXPERIMENTAL INVESTIGATIONS OF MICROWAVE RADIATION BY CHEMICAL REACTIONS - VENUS ATMOSPHERIC CHEMISTRY
NASA-CR-59112 N64-33190 24-29

MICROWAVE RADIOMETER
CLOUD LIQUID-WATER CONTENT BY MICROWAVE RADIOMETRY N64-10917 02-21

SATELLITE INSTRUMENTATION PROBLEMS IN MEASURING ATMOSPHERIC RADIATION USING MICROWAVE RADIOMETERS N64-10919 02-13

TECHNIQUE FOR DETECTING OCEAN STATE FROM SATELLITE VIA MICROWAVE RADIOMETRY N64-10920 02-21

MICROWAVE RADIOMETER TERRAIN SCANNING SYSTEM IN B-25 AIRCRAFT N64-10925 02-21

MICROWAVE RADIOMETER PICTURES TAKEN DURING FLIGHT TESTS INCLUDE THERMAL CONTRAST TARGETS AND SOIL COMPOSITION BOUNDARIES N64-10926 02-21

INFRARED AND MICROWAVE RADIOMETRY N64-15457 07-23

MICROWAVE RADIOMETER DETERMINATION OF THERMAL ENVIRONMENT OF TERRESTRIAL PLANETS
NASA-TM-X-53016 N64-18165 10-29

RADIOMETRIC TEMPERATURE DETERMINATIONS OF TERRESTRIAL MATERIALS AT L BAND FREQUENCY
MED-64-30 N64-19629 12-08

MILLIMETER AND SUBMILLIMETER WAVELENGTH DETECTOR INSTRUMENTS - SUBMILLIMETER RADIOMETER AND CARBON BOLOMETER
NASA-CR-53871 N64-19958 12-08

MICROWAVE REFLECTOMETRY
MICROWAVE REFLECTIVITY FACILITY N64-24736 17-10

MICROWAVE SCATTERING
MICROWAVE SCATTERING BY WRINKLED SPHERE
NASA-CR-55163 N64-13182 04-23

MICROWAVE SCATTERING AND EXTINCTION PROPERTIES OF POLYDISPERSED CLOUD AND RAIN ELEMENTS
R-422-PR N64-14493 06-21

MICROWAVE BACKSCATTERING FROM SUPERSONIC PLASMA FLOWS N64-24311 17-08

MICROWAVE SCATTERING FROM PLASMA COLUMN IN RECTANGULAR WAVEGUIDE
IPPJ-27 N64-29354 21-24

MICROWAVE SPECTRUM
DIPOLE MOMENT, QUADRUPOLAR COUPLING CONSTANTS, AND MICROWAVE SPECTRUM OF CHLOROBENZENE
NASA-CR-55415 N64-14865 06-07

MICROWAVE SPECTRUM INVESTIGATION OF CHEMISTRY OF VENUS ATMOSPHERE
NASA-CR-53365 N64-17818 09-29

FIELD INTENSITY METER /SUPERHETERODYNE MICROWAVE RECEIVER/ FOR MEASURING RADIO FREQUENCY FIELD STRENGTH
NBS-7970 N64-21184 14-08

HIGH RESOLUTION MICROWAVE SPECTRA OF HYDROGEN AND HYDROXYL ABSORPTION LINES OF CASSIOPEIA A N64-26301 18-05

MICROWAVE SPECTRUM OF METHYL HYPOCHLORITE
AD-437343 N64-26860 18-07

MASS AND MICROWAVE SPECTRA, STRUCTURES AND DIPOLE MOMENTS OF ISOMERS OF SULFURMONOFLUORIDE
AD-434344 N64-26861 18-07

ELECTRICAL PARAMETERS OF BIOLOGICAL TISSUES IN MICROWAVE RANGE
JPRS-26191 N64-28092 20-16

MICROWAVE SPECTRUM, BARRIER TO INTERNAL ROTATION, AND QUADRUPOLE COUPLING CONSTANTS OF CIS-1-CHLOROPROPYLENE
NASA-CR-58578 N64-29404 21-07

MICROWAVE TRANSMISSION
COMPARISON OF CABLE AND MICROWAVE LINKS FOR DATA TRANSMISSION SYSTEMS
TOR-269/4110-03/-2 N64-16655 08-08

CHARACTERISTICS OF DIFFRACTION PROPAGATION AT MICROWAVE FREQUENCIES
RADC-TDR-64-13 N64-18795 11-08

ANTENNA SYSTEMS DESIGN FOR MICROWAVE POWER TRANSMISSION N64-21016 14-09

CIRCULAR WAVEGUIDE DUPLEXERS AND WAVEGUIDE MICROWAVE TRANSMISSION LINE
RTD-TDR-63-4141 N64-21667 15-09

WINDOWS FOR HIGH POWER MICROWAVE TRANSMISSION
NA-8240-8345-3 N64-21849 15-09

TRANSISTOR REGULATED MULTIVOLTAGE POWER SUPPLY FOR MICROWAVE TRANSMITTER
TR-1231 N64-23984 16-06

MICROWAVE TRANSMITTERS, ANTENNA, AND TRACKING RECEIVERS OF DYNA-SOAR SPACE GLIDER COMMUNICATION SYSTEM
CR-64-408-34.3-1 N64-25747 17-08

LOWEST CUT-OFF WAVELENGTH OF MICROWAVE TRANSMISSION LINE - T-SEPTATE LUNAR LINE
AFCRL-62-80 N64-29439 21-09

MICROWAVE TRANSMISSION EQUIPMENT - ADAPTIVE CIRCUITRY, DIGITAL MODULATION, AND SOLID STATE VARACTOR MULTIPLIERS
RM-3762-PR N64-32855 24-08

MICROWAVE TUBE
WIDEBAND LASER MODULATORS USING CRYSTALS WITH LINEAR ELECTRO-OPTIC EFFECTS, MICROWAVE PHOTOTUBE TO DEMODULATE LIGHT N64-12563 04-25

WIDEBAND MICROWAVE PHOTOTUBE FOR LASER COMMUNICATIONS SYSTEMS N64-12568 04-25

PREDICTING BEHAVIOR OF PULSE RESPONSE OF MICROWAVE AMPLIFIER TUBES N64-16137 08-09

LINEAR-BEAM MICROWAVE TUBES & RESONATORS
RADC-TDR-63-518, VOL. 2 N64-16142 08-09

IMPROVING HIGH POWER RADIO FREQUENCY WINDOWS FOR MICROWAVE TUBES
RADC-TDR-63-510 N64-18032 10-09

DIELECTRIC-TO-METAL SEALING TECHNIQUES USED WITH OUTPUT WINDOWS FOR HIGH POWER MICROWAVE TUBES
RADC-TDR-63-472 N64-19187 11-17

RUGGEDIZED MICROWAVE DUPLEXING TUBES PRODUCTION ENGINEERING MEASURES
AD-601464 N64-22704 15-17

THIN FILM METAL-INSULATOR-METAL SANDWICH STRUCTURES AS CAPACITOR CATHODES FOR MICROWAVE TUBES
IR-4 N64-29319 21-09

THIN FILM COLD CATHODES FOR MICROWAVE TUBES
IR-2 N64-29978 21-09

INTRA-PULSE PHASE SHIFT IN LINEAR BEAM MICROWAVE TUBES
USAELRDL-TR-2465 N64-29991 21-09

CALCULATION OF MAIN PARAMETERS OF MICROWAVE TUBES WITH TUBULAR BEAMS OF CHARGE PARTICLES N64-31369 23-09

HIGH POWER MICROWAVE AMPLIFIERS FOR OPERATION IN SPACE ENVIRONMENT - EFFECTS OF VACUUM, RADIATION, TEMPERATURE, AND MICROMETEOROIDS
RADC-TDR-64-201 N64-33545 24-09

MIDAS III SATELLITE
SATELLITE OBSERVATIONS WITH CINETHEODOLITE, OF MIDAS III, EXPLORER XVI, AND EXPLORER XVII SATELLITES N64-17273 09-08

EPHEMERIS CONTAINING OBSERVATIONS OF EXPLORER, MIDAS III & IV, TRANSIT IIA, & OTHER SATELLITES N64-30871 22-08

EPHEMERIS CONTAINING SATELLITE OBSERVATIONS OF MIDAS, TRANSIT, AND THOR AGENA B ORBITING VEHICLES N64-30872 22-08

THEODOLITE OBSERVATIONS OF MIDAS III AND V, ALOUETTE, ANNA, AND STARAD SATELLITES - JUNE 1964 N64-33251 24-08

MIDAS IV SATELLITE
EPHEMERIS CONTAINING OBSERVATIONS OF EXPLORER, MIDAS III & IV, TRANSIT IIA, & OTHER SATELLITES N64-30871 22-08

MIDAS V SATELLITE
THEODOLITE OBSERVATIONS OF MIDAS III AND V, ALOUETTE, ANNA, AND STARAD SATELLITES - JUNE 1964 N64-33251 24-08

KINETHEODOLITE OBSERVATIONS OF EXPLORER XVI, AGENA, AND MIDAS V, VI, VII SATELLITES - DECEMBER 1963 N64-33253 24-08

MIDAS VI SATELLITE
KINETHEODOLITE OBSERVATIONS OF EXPLORER XVI, AGENA, AND MIDAS V, VI, VII SATELLITES - DECEMBER 1963 N64-33253 24-08

EPHEMERIS OF KINETHEODOLITE OBSERVATIONS - THOR AGENA D, MIDAS VI, BLUE SCOUT, AND GEOPHYSICAL RESEARCH SATELLITE N64-33446 24-08

MIDAS VII SATELLITE
KINETHEODOLITE OBSERVATIONS OF EXPLORER XVI, AGENA, AND MIDAS V, VI, VII SATELLITES - DECEMBER 1963 N64-33253 24-08

EPHEMERIS OF KINETHEODOLITE OBSERVATIONS OF SATELLITES - MIDAS VII, ATLAS AGENA B, AND ABLESTAR N64-33447 24-08

MIDCOURSE GUIDANCE
CF GUIDANCE SYSTEM
SIMPLIFIED MODEL OF MIDCOURSE MANEUVER EXECUTION ERRORS
NASA-CR-53032 N64-13278 04-29

DYNAMIC PROGRAMMING OF TIMING OF MIDCOURSE GUIDANCE MANEUVERS OF SPACECRAFT FOR MINIMIZING FINAL ERROR
NASA-CR-53000 N64-13281 04-29

TRAJECTORY MIDCOURSE GUIDANCE USING RADAR TRACKING AND ON-BOARD OBSERVATION DATA
NASA-TN-D-2238 N64-17773 09-08

ANALYTIC SOLUTION OF EQUATIONS OF MOTION OF MIDCOURSE PHASE INTERPLANETARY FLIGHT
NASA-CR-53469 N64-18170 10-29

MONTE CARLO COMPUTATION OF STATISTICS OF MIDCOURSE VELOCITY CORRECTIONS FOR LUNAR MISSION
NASA-TN-D-2296 N64-20191 13-29

SENSOR REQUIREMENTS FOR MIDCOURSE GUIDANCE OF SPACECRAFT ON LUNAR TRAJECTORIES
AIAA PAPER-64-234 N64-22104 15-22

PSEUDO-DIURNAL TRANSIT TECHNIQUE OF SPACE NAVIGATION IN INTERPLANETARY MIDCOURSE - CELESTIAL MECHANICS
NASA-CR-56288 N64-22473 15-22

MIDCOURSE GUIDANCE OF PATH OF INTERPLANETARY VEHICLE BY MEANS OF SEVERAL INTERMITTENT THRUST IMPULSE
NASA-CR-51827 N64-26866 18-29

ANALYTIC SOLUTION TO ELLIPTICAL MOTION EQUATIONS FOR TRAJECTORY CALCULATIONS OF SPACE VEHICLE IN MIDCOURSE PHASE OF INTERPLANETARY FLIGHT
AIAA PAPER-64-398 N64-27326 19-20

TWO-BODY MIDCOURSE NAVIGATION AND GUIDANCE FOR LUNAR MISSIONS
AIAA PAPER-64-649 N64-27674 19-22

SEXTANT SIMULATOR FOR MIDCOURSE GUIDANCE OF MANNED SPACECRAFT DURING INTERSTELLAR TRAVEL
AIAA PAPER-64-651 N64-27675 19-22

MIDCOURSE GUIDANCE EQUATIONS FOR SURVEYOR PROJECT LUNAR SOFT LANDING SPACECRAFT
AIAA PAPER-64-654 N64-27755 19-22

MIDCOURSE GUIDANCE ANALYSIS FOR INTERPLANETARY FLIGHT
NASA-CR-56895 N64-27871 20-29

MIGRATION
SILVER MIGRATION AND TRANSPORT MECHANISM IN SILVER OXIDE-ZINC BATTERIES
ASD-TDR-63-863 N64-10548 01-06

ELECTRICAL CONDUCTIVITY & MAGNETIC PROPERTIES OF ORGANIC COMPLEXES WITH CHARGE MIGRATION
E-T-R-63-3 N64-13114 04-07

SILVER MIGRATION AND TRANSPORT MECHANISMS IN SILVER-ZINC BATTERIES
AD-432346 N64-21773 15-06

DESORPTION & MIGRATION OF STRONTIUM ON TUNGSTEN BY PULSED FIELD EMISSION MICROSCOPY
AD-421552 N64-31698 23-07

MILITARY AIRCRAFT
MONTE CARLO METHODS FOR SIMULATION OF STOCHASTIC PROCESS CONTROLLED MAN-MACHINE SYSTEM - MILITARY AIRCRAFT LOGISTICS N64-11867 03-20

DEVELOPMENTS IN USSR MILITARY AND COMMERCIAL AIRCRAFT DESIGN
JPRS-24731 N64-20820 14-01

VECTOR CONTROL OF MILITARY AIRCRAFT THROUGH THUNDERSTORM BY GROUND-BASED RADAR
N64-27400 19-21

POTENTIAL HAZARDS OF NOISE ASSOCIATED WITH OPERATION OF MILITARY AIRCRAFT
USAARU-63-1 N64-27609 19-04

ULTIMATE DESIGN LOADS FOR LARGE FLEXIBLE MILITARY AIRCRAFT
SEG-TDR-64-24 N64-28797 20-04

MILITARY TECHNOLOGY
RADIOMETRIC MEASUREMENT OF TARGETS INCLUDING TRUCKS, TANKS, BRIDGES, & RAILROADS IN DIFFERENT ENVIRONMENTS - MILITARY USE N64-10927 02-01

GUIDED MISSILES - MILITARY ENGINEERING PROBLEMS
JPRS-23032 N64-14255 06-04

MILITARY COMMAND AND CONTROL SYSTEM PLANNING - PROFILES OF FUTURE WORLDS
MI-285-RR, VOL. 1 N64-18251 10-01

MILITARY COMMAND AND CONTROL SYSTEMS PLANNING - NATIONAL SECURITY POLICIES
MI-285-RR, VOL. 2 N64-18252 10-01

MILITARY COMMAND AND CONTROL SYSTEMS PLANNING - POLITICAL WAR GAMES
MI-285-RR, VOL. 3 N64-18253 10-01

RELIABILITY AND MAINTAINABILITY OF MILITARY EQUIPMENT IN SHOCK & VIBRATION ENVIRONMENT - MILITARY TECHNOLOGY N64-18535 11-17

SHOCK AND VIBRATION TECHNOLOGY APPLIED TO MILITARY WEAPON SYSTEMS N64-18536 11-33

MILITARY TECHNOLOGY - INFANTRY TRAINING IN LAND NAVIGATION
HUMRRO-TR-89 N64-22925 16-22

THERMIONIC CONVERTER BACKPACK MOBILE POWER SUPPLY FOR MILITARY APPLICATION N64-22994 16-09

MILITARY TECHNOLOGY FOR FIGHTER AIRCRAFT
FTD-TT-63-1130/1 N64-23099 16-04

MILITARY TECHNOLOGY - LAND NAVIGATION AND MOVEMENT OF INFANTRYMAN
HUMRRO-TR-30 N64-23450 16-22

AIR-SUPPORTED TENTS FOR MILITARY USE
N64-23720 16-10

USE OF RADAR CROSS SECTION DATA IN MILITARY SYSTEMS ANALYSIS N64-24721 17-08

MOONLIGHT AND NIGHT VISIBILITY - APPLICATION TO MILITARY TACTICS
AD-438001 N64-25364 17-21

MILITARY TECHNOLOGY - CONCEPTS OF SPACE ARMAMENT CONTROL
P-2873 N64-25649 17-01

MILITARY SIGNIFICANCE OF WEATHER CONTROL
JPRS-26861 N64-32807 24-21

STANDARD TESTS AND DATA TABULATION ON EXPLOSIVE PROPERTIES - HANDBOOK FOR MILITARY USE
ANCP-706-177 N64-33130 24-07

PLASTIC GEARS FOR MILITARY USE
PLASTEC-16 N64-33299 24-19

MILITARY WEAPON TRANSPORT VEHICLE
APPLICATION OF GAME THEORY OF WEAPON SYSTEMS AND WEAPON TRANSPORT VESSELS TO MILITARY OPERATIONAL PROBLEMS
JPRS-19374 N64-10820 02-20

MILKY WAY
S GALAXY

MILLIMETER WAVE
CF MICROWAVE
GROUND RADIOMETER FOR MILLIMETER WAVE RESEARCH IN CLOUD PHYSICS N64-10928 02-21

MILLIMETER & SUBMILLIMETER RECEIVER & DETECTOR TECHNIQUES
NASA-CR-52685 N64-11104 02-23

CORRELATION RADIOMETER FOR MILLIMETER & SUBMILLIMETER WAVELENGTHS
NASA-CR-52684 N64-11230 02-08

MILLIMETER WAVE MODULATION & SIGNAL PROCESSING - LOW-NOISE RECEIVER & STABLE REFERENCE SOURCE
TDR-169/3250-45/TR-1 N64-12184 03-08

TRANSMISSION METHODS, POWER SOURCES, AND SIGNAL DETECTION IN MILLIMETER WAVELENGTH
RE-TR-63-30 N64-12367 03-15

STEERABLE, SCANNING ANTENNA OPERATING IN MILLIMETER WAVELENGTH
RADC-TDR-63-344 N64-12585 04-08

ELECTROMAGNETIC RADIATION DETECTION AND STUDY OF TRANSMISSION LINES AT MILLIMETER AND SUBMILLIMETER WAVELENGTHS
RADC-TDR-63-458 N64-12591 04-08

ONE MILLIMETER CONTINUOUS WAVE CARCINOTRON
RADC-TR-63-551 N64-13638 05-09

PHOTOELECTRIC MILLIMETER WAVE DETECTION IN INDIUM ANTIMONIDE
RADC-TDR-63-502 N64-13789 05-25

O-TYPE BACKWARD-WAVE OSCILLATOR FOR GENERATING VERY HIGH POWER AT PEAK OF 100-KILOWATTS AND AVERAGE OF 1000-WATTS AT 100 GRAM-CALORIE
W-J 63-435R3S N64-15061 07-09

ABSORPTION OF OXYGEN IN 2.5 MILLIMETER WAVELENGTH
AD-428845 N64-15098 07-23

MILLIMETER & SUBMILLIMETER RUBY MASER - POPULATION CHANGE AND R-LINE ABSORPTION COEFFICIENT
AD-429381 N64-15757 07-25

MILLIMETER WAVES FOR RADIO TRACKING AND SPACE COMMUNICATIONS N64-17201 09-23

RADIO ASTRONOMY - MILLIMETER AND MICROWAVE TECHNIQUES AND OBSERVATIONS N64-17877 10-05

VIDEO DETECTION TECHNIQUES FOR MILLIMETER AND SUBMILLIMETER WAVES
RADC-TDR-64-28 N64-17962 10-08

MILLIMETER-WAVE AMPLIFICATION PRODUCED BY RESONANCE ABSORPTION OF GAS
RADC-TDR-63-562 N64-18363 10-09

ELECTRONICALLY TUNABLE CONVERTERS IN MILLIMETER WAVE RANGE
NASA-CR-53585 N64-18438 10-09

SPACE RADIO SYSTEMS FACILITY USING MILLIMETER WAVELENGTH REGION - PLANNING & CONSTRUCTION OF ANTENNA AND PERIPHERAL COMPONENTS
SSD-TDR-63-294 N64-18653 11-09

MILLIMETER WAVE TECHNIQUES FOR EVALUATION OF GUIDANCE DATA SIGNAL ATTENUATION BY EXHAUST PLUMES
RE-TR-63-31 N64-18786 11-08

MILLIMETER AND SUBMILLIMETER WAVELENGTH DETECTOR INSTRUMENTS - SUBMILLIMETER RADIOMETER AND CARBON BOLOMETER
NASA-CR-53871 N64-19958 12-08

CHARACTERISTICS OF 16-FOOT DIAMETER ANTENNA SYSTEM FOR MEASUREMENT OF MILLIMETER WAVELENGTH EMISSIONS FROM COSMIC SOURCES
NASA-CR-53690 N64-19987 12-09

EXCITATION & DETECTION TECHNIQUES FOR MOLECULAR MILLIMETER WAVE TRANSITIONS
OR-3821 N64-21795 15-25

LOW-NOISE MILLIMETER-WAVE PARAMETRIC AMPLIFIER
REPT.-2 N64-21831 15-08

ELECTRONICALLY TUNABLE CONVERTERS IN MILLIMETER WAVE RANGE
NASA-CR-56507 N64-23524 16-09

MILLIMETER WAVE SHORT PULSE RADARS FOR INDOOR ECHOING AREA MEASUREMENT N64-24737 17-08

LOW NOISE MILLIMETER WAVE PARAMETRIC AMPLIFIER
REPT.-3 N64-25704 17-09

GAS NOISE SOURCE FOR MILLIMETER WAVELENGTH
QPR-2 N64-26709 18-17

MILLIMETER WAVE COMPONENT DEVELOPMENT - BEAM PLASMA AMPLIFIER
RADC-TDR-64-207 N64-26920 18-24

MULTIPLE COUPLED LADDERS IN BACKWARD-WAVE OSCILLATORS AT MILLIMETER WAVELENGTHS
N64-27997 20-09

MILLIMETER-WAVE MODULATION AND SIGNAL PROCESSING TECHNIQUES
SSD-TDR-64-52 N64-29581 21-08

TUNNEL DIODES AND POINT CONTACT DIODES FOR USE AS MILLIMETER WAVE MIXERS
REPT.-4 N64-31125 22-09

MASER DEVICES TO GENERATE MILLIMETER AND SUBMILLIMETER WAVES
ITR-2 N64-31191 22-25

QUASI-OPTICAL METHODS FOR SHAPING AND TRANSMITTING MILLIMETRIC WAVES
NASA-TT-F-9028 N64-31446 23-08

MILLIMETER WAVE LARMOTRON AMPLIFIER - CYCLOTRON WAVE ELECTRON BEAM AMPLIFIER
ASD-TDR-63-765 N64-31692 23-09

APPARENT SKY TEMPERATURE MEASUREMENTS AT MILLIMETER-WAVE FREQUENCIES
AFCRL-64-590 N64-31809 23-21

MOLECULAR BEAM APPARATUS, HYDROGEN SULFIDE SPECTROSCOPY, AND MILLIMETER WAVE STUDIES
OR-3408 N64-32140 23-23

MILLIMETER WAVE GENERATION BY PLASMA
AD-422362 N64-33242 24-24

DETECTION, GENERATION, MEASUREMENT, AND RECEIVER TECHNIQUES IN MILLIMETER AND SUBMILLIMETER WAVELENGTH REGIONS
NASA-CR-59335 N64-33775 24-15

MILLING
CHEMICALLY MILLED WAFFLE GRID BERYLLIUM STRUCTURAL PANEL FOR AEROSPACE APPLICATION
ERR-FW-135 N64-13119 04-18

CHEMICAL MILLING OF PRECISION SLOTS IN STAINLESS STEEL AND ALUMINUM
A239 N64-13249 04-17

MILLING, TURNING, & REAMING STAINLESS STEELS IN METAL FINISHING N64-17104 09-17

SHEAR STRAIN TESTING OF CHEMICALLY MILLED BERYLLIUM WAFFLE PANEL
FTDM-3068 N64-20050 13-18

CHEMICAL MILLING EFFECTS ON NIOBIUM-ZIRCONIUM ALLOY
A740 N64-24209 16-18

CHEMICAL MILLING OF BERYLLIUM WIRE INTO ULTRAFINE SIZES
NAEC-AML-1909 N64-25623 17-18

CHEMICAL MILLING PROCESS FOR ALUMINUM HONEYCOMB ASSEMBLIES
ADR-08-17-64.1 N64-25920 18-17

METALLURGICAL TECHNOLOGY OF REFRACTORY ELEMENT MILLING N64-27597 19-18

MILLING MACHINE
MILLING WITH HIGH SPEED SPIRAL-TYPE CYLINDRICAL CUTTER N64-17100 09-17

PRODUCTION METHOD IN MACHINING HEAT RESISTANT STEEL & ALLOYS WITH FACE & END MILLING CUTTERS
N64-17101 09-17

SELF-ADAPTIVE SYSTEN FOR CONTROL OF MILLING MACHINE
FTD-MT-63-64/1&2 N64-18674 11-17

MILNE EQUATION
NUMERICAL RESOLUTION OF INTEGRAL TRANSFER EQUATION /MILNES PROBLEM/ IN NONNEUTRON-ABSORBING MEDIUM
EUR-371.I N64-10036 01-20

MOMENT METHOD FOR SOLUTION OF SCHWARZSCHILD-MILNE INTEGRAL EQUATION
NASA-CR-60001 N64-27911 20-20

MILNE-THOMSON METHOD
S RUNGE-KUTTA INTEGRATION

MINERAL
SA AKERMANITE
SA ALUM
SA BARITE
SA BASTNASITE
SA CALCITE
SA COHENITE
SA CORDIERITE
SA FORSTERITE
SA GRAPHITE
SA HEMATITE
SA HODGRINSONITE
SA LIMESTONE
SA MERWINITE
SA ORE
SA PEARLITE
CF ROCK
CF SOIL
CF TALC
FUEL PRODUCTION PROBLEMS - MINERAL, NATURAL GAS, AND PETROLEUM FUELS
JPRS-17782 N64-10722 02-20

ELECTRON MICROPROBE ANALYSIS OF RARE MINERALS IN NORTON COUNTY, KANSAS ACHONDRITE
N64-11195 02-13

HEATING VELOCITY INFLUENCE ON KINETICS OF CALCINING MINERAL SUBSTANCES N64-11976 03-13

PROCESSING OF LITHIUM-BEARING MINERALS AND LITHIUM COMPOUNDS N64-13471 05-13

TYPES OF MINERALS FAVORABLE TO INDUCED POLARIZATION SURVEYS, AND THEIR ELECTRIC CONDUCTIVITY & POLARIZATION PROPERTIES
N64-15416 07-12

LINEAR CORRELATION OF MAGNETIC SUSCEPTIBILITY WITH CHEMICAL COMPOSITION OF MINERALS
BM-RI-6379 N64-16016 07-19

INVESTIGATION OF MAGNESIA-MAGNESIUM FLUORIDE-GERMANIA-LITHIUM FLUORIDE FOR SYNTHETIC MINERAL USAGES
BM-RI-6398 N64-17228 09-25

ELECTROSTATIC SEPARATION OF HIGH CONDUCTIVITY MINERALS
BM-RI-6404 N64-17299 09-17

DYNAMIC AND STATIC RESPONSE OF MINERALS IN MAGNETIC SEPARATOR
BM-RI-6411 N64-17804 09-19

CHANGE IN SPECIFIC ELECTRICAL CONDUCTIVITY OF MINERALS AND ROCKS WITH AGE
JPRS-24960 N64-21287 14-12

PHOTOSYNTHESIS OF HIGHER PLANTS AND MINERAL NUTRITION
N64-23782 16-16

IDENTIFICATION OF CRYSTALLINE MINERALS IN ATMOSPHERIC DUST BY X-RAY DIFFRACTION AND INFRARED ABSORPTION
ERDA-141 N64-24336 17-23

SIMULATING MINERAL DEPOSITS USING MONTE CARLO TECHNIQUES AND MATHEMATICAL MODELS
BM-RI-6493 N64-26464 18-12

ELECTRON MICROSCOPIC STUDY OF INTERACTION OF SODIUM OLEATE WITH PULP IONS & MINERAL SURFACES
N64-31405 23-07

INFLUENCE OF REAGENTS ON FLOTATION OF PYROCHLORE AND CONCOMITANT MINERALS FROM CARBONATITE DEPOSIT
N64-31409 23-07

SHEAR STRENGTH DEFORMATION TESTS OF UPPER MANTLE MINERAL ANALOGS FORSTERITE, ENSTATITE, DIOPSIDE, AND LABRADORITE AT 27 DEGREE CENTIGRADE
AFCRL-63-619 N64-31808 23-12

WATER AND MINERAL METABOLIC WASTE IN INSULIN EDEMA
NASA-TT-F-9112 N64-33395 24-16

ION EXCHANGE CHARACTERISTICS OF MINERALS IN FUSED SODIUM NITRATES USING SODIUM 22, RUBIDIUM 86, CESIUM 137, AND BARIUM 133 AS TRACERS
USNRDL-TR-754 N64-33424 24-07

MINERAL OIL
EFFECT OF BREMSSTRAHLUNG OF BETATRON AND ULTRAVIOLET RADIATION ON MINERAL OILS
FTD-TT-64-224/1&2&4 N64-21975 15-07

MINERALOGY
SA PETROLOGY
MINERALOGICAL SATELLITE - MAPPING OF MINERALOGY & TEMPERATURE OF LUNAR SURFACE BY REMOTE INFRARED SPECTRAL MEASUREMENTS
IAC PAPER-94 N64-12351 03-15

MINERALOGY OF OXIDATION PRODUCTS OF SPUTNIK IV FRAGMENTS & IRON METEORITES N64-15000 06-05

MINERALOGICAL AND METALLURGICAL ENGINEERING
MITS-51 N64-16019 07-19

CADMIUM ABUNDANCES IN METEORITIC AND TERRESTRIAL MATTER N64-18111 10-05

CHEMISTRY OF LEACHING COPPER SULFIDE MINERALS WITH AUTOTROPIC BACTERIA - MINERALOGY
BM-RI-6423 N64-18987 11-16

MINERALOGY - REMANENT MAGNETIZATION OF ANOMALOUS AND STABLE LAVA FLOWS
AFCRL-64-97/1/ N64-27440 19-12

MINIATURIZATION
SA MICROMINIATURIZATION
MINIATURE NONRECIPROCATING CLOSED CYCLE REFRIGERATOR
SS-960 N64-14668 06-06

MINIATURE THIN FILM INDUCTORS - FABRICATION TECHNIQUES
REPT.-4003-3 N64-18609 11-09

POROUS SUBSTRATE RESISTOR AIMED AT MINIATURIZATION OF METAL-FILM RESISTORS
IDR-7 N64-26196 18-09

MINIATURIZED TELEMETERING PACKAGE FOR DATA ACQUISITION AT HIGH SPEED WATER ENTRY
GD/C-64-108 N64-28455 20-08

MICROMINIATURIZATION AND CONTINUING NEED FOR CLASSICAL ELECTRIC COMPONENTS
JPRS-16075 N64-28776 20-09

MINIATURE FISSION CHAMBER AND PREAMPLIFIER FOR HIGH FLUX REACTORS
ORNL-3699 N64-32416 23-15

MINIMUM VARIANCE ORBIT DETERMINATION /MINIVAR/
CF COMPUTER PROGRAM
CF ORBIT CALCULATION
MINIMUM VARIANCE /MINIVAR/ ORBIT DETERMINATION - COMPUTER PROGRAM
NASA-CR-55921 N64-18226 10-10

SATELLITE ORBIT CALCULATION USING PROPAGATION DELAY FROM GROUND TRACKING STATION
N64-18229 10-23

TIME ADJUSTMENT AND AMBIGUITY RESOLUTION OF MINIVAR INPUT DATA - TRACKING DATA
N64-18230 10-08

MATRIX INVERSION PROCEDURES IN MINIVAR
N64-18233 10-20

CENTRAL DIFFERENCE NUMERICAL DIFFERENTIATION FORMULA DERIVED FOR MINIVAR N64-18234 10-20

BIAS ERRORS INCLUDED IN MINIVAR
N64-18236 10-20

PRECISION OF OPTIMUM FILTER K - MINIVAR
N64-18237 10-20

UTILIZATION OF HISTORY TAPE AND TAPE LIBRARY PROCEDURES OF ALTERNATE EXECUTIVE ROUTINE FOR MINIVAR COMPUTER PROGRAM N64-18238 10-20

OPERATIONAL COMPUTING PROGRAM FOR ORBIT DETERMINATION BASED ON SCHMIDT-KALMAN MINIMUM VARIANCE TECHNIQUE FOR PROCESSING TRACKING DATA
NASA-CR-53866 N64-19793 12-29

MINING
OPTICAL EQUIPMENT AND MEASURING APPARATUS FOR MINING AND RESEARCH
RSIC-241 N64-32493 23-33

MINKOWSKI THEORY
CF STRESS TENSOR
MINKOWSKI THEORY OF ELECTRODYNAMICS OF MOVING MEDIA N64-26598 18-23

FORMULATION OF TWO SCATTERING PROBLEMS INVOLVING MOVING MEDIA USING MAXWELL-MINKOWSKI EQUATIONS
NASA-CR-58565 N64-29692 21-11

ELECTRODYNAMICS OF MOVING MEDIA - MINKOWSKI THEORY
NASA-CR-58561 N64-29694 21-11

MINUTEMAN ICBM
MICROELECTRONICS FOR MINUTEMAN GUIDANCE & CONTROL
N64-12110 03-09

MINUTEMAN ICBM HIGH FREQUENCY RADIO COMMUNICATIONS SYSTEM TEST
T2-3188-1 N64-19915 12-08

TEST PROGRAM FOR MINUTEMAN ICBM MAINTENANCE GROUND EQUIPMENT - ELECTRONIC EQUIPMENT TESTING

REPT.-00-264997 N64-27916 20-10

MINUTEMAN ICBM GROUND ELECTRONICS SYSTEM - INTERROGATOR, TRANSPONDER, AND TEST PLUG
AD-442231 N64-31923 23-17

PRODUCTION OF MINUTEMAN ICBM SECOND STAGE ROCKET ENGINES
REPT.-0162-06QP-1 N64-32302 23-27

CALCULATION OF MANPOWER & EQUIPMENT REQUIREMENTS FOR MAINTENANCE OF MINUTEMAN ICBM SYSTEMS
RM-3308-PR N64-32524 23-10

MIROS
S MODULATION INDUCING RETRODIRECTIVE OPTICAL SYSTEM

MIRROR
CF REFLECTOR
MIRROR REFLECTOR FOR TELESCOPE N64-13678 04-23

PROCESSING OF MAIN MIRROR FOR TELESCOPE N64-13680 05-17

TESTING PRECISE MIRRORS OF ASTRONOMICAL INSTRUMENTS WITH VACUUM CHAMBER N64-13690 05-10

GRINDING OUT POCKETS IN SOLID BLOCKS OF GLASS TO PRODUCE LIGHTWEIGHT RIBBED STRUCTURES FOR MIRROR BLANKS
NASA-CR-53881 N64-19956 12-17

EFFECT OF SURFACE DEFORMATION IN ROTATING OBLIQUE SCANNING MIRRORS ON IMAGE QUALITY IN FLYING-SPOT SCANNERS
REPT.-2900-469-T N64-20081 13-23

MAGNETIC MIRROR FOR CONTAINMENT OF HIGH TEMPERATURE PLASMAS FOR STUDY OF PLASMA STABILITY, COMPRESSION, HEATING, TRANSPORT, AND DYNAMICS
RTD-TDR-63-4143 N64-20115 13-24

PRODUCTION OF POLARIZED NEUTRON BEAM AT REACTOR ISPRA I BY REFLECTION OF SLOW NEUTRONS ON MAGNETIZED MIRROR
EUR-538.E N64-21208 14-23

RIGIDIZATION OF TEN-FOOT MIRROR IN VACUUM CHAMBER AND PHYSICAL PROPERTIES OF LIGHTWEIGHT FOAM FOR SOLAR REFLECTOR
GER-11494 N64-26661 18-06

PROBLEM OF SELECTING MATERIALS FOR MIRRORS AND FEASIBILITY OF USING CERAMICS N64-27091 19-17

OPTICAL PERFORMANCE OF TWIN ASPHERIC MIRROR SYSTEM FOR THERMAL IMAGE CONVERTER
WRE-TN-CPD-78 N64-27676 19-23

MATRICES OF CANONICAL FORM OF THREE-DIMENSIONAL SYSTEM OF THREE FLAT MIRRORS WITH ONE SLEWED N64-29148 21-15

SOLAR REFLECTOR FOAMING TECHNOLOGY - FOAM RIGIDIZATION OF MIRRORS IN VACUUM CHAMBER
GER-11594 N64-32188 23-17

CALORIMETRIC TESTING OF MIRROR FOR NICKEL ELECTROFORMED COLLECTOR TO PRODUCE SOLAR CONCENTRATORS
NASA-CR-103 N64-32688 23-17

FULL-APERTURE PARABOLOID LUNAR AND PLANETARY TELESCOPE
NASA-CR-59164 N64-33678 24-15

MISSILE
SA ADCAT MISSILE
SA AIR TO AIR MISSILE
SA AIR TO SURFACE MISSILE
SA ANTIAIRCRAFT MISSILE
SA ANTITANK MISSILE
SA BALLISTIC MISSILE
SA BLACK BRANT II MISSILE
SA BLACK BRANT III MISSILE
SA BLUE STREAK MISSILE
SA GUIDED MISSILE
SA INTERCONTINENTAL BALLISTIC MISSILE /ICBM/
SA LITTLE JOHN MISSILE
SA PERSHING MISSILE
SA POLARIS A1 MISSILE
SA POLARIS A3 MISSILE
SA POLARIS MISSILE
SA RANJET MISSILE
SA SUPERSONIC COMBUSTION RAMJET MISSILE /SCRAM/
SA SURFACE-TO-AIR MISSILE
SA TALOS MISSILE
SA TITAN I ICBM
SA TITAN II ICBM
SA TITAN III ICBM
SA TRAILBLAZER MISSILE
SA WARHEAD
CF ROCKET
X-RAY TELEVISION IMAGING SYSTEM FOR INSPECTION OF FIBERGLASS REINFORCED PLASTIC MISSILE CASES
WAL-TR-142.5/2-3 N64-18611 11-11

HEAT TRANSFER IN HONEYCOMB SANDWICH PANELS IN STRUCTURE OF AIRCRAFT AND MISSILES
ERR-FW-104 N64-18945 11-13

ELECTRO-OPTICAL MEASUREMENT OF MISSILE ATTITUDE DURING LAUNCH USING LASER BEAMS
ESD-TDR-63-624 N64-19974 12-15

NONDESTRUCTIVE INSPECTION & TESTING OF FIBERGLASS REINFORCED PLASTIC MISSILE CASES & STRUCTURAL MATERIALS BY USE OF X-RAY TELEVISION EQUIPMENT
WAL-TR-142.5/2-8 N64-20319 13-17

DYNAMIC MODEL MISSILE SIMULATOR FOR PREDICTION OF STRUCTURAL VIBRATION
NOR-63-139 N64-21438 14-33

CERAMIC SYSTEMS FOR MISSILE STRUCTURAL APPLICATION
AD-431544 N64-21787 15-19

ANALYTIC SOLUTION TO MOTION EQUATIONS OF MISSILES HAVING SIX DEGREES OF FREEDOM
NOLTR-63-241 N64-22951 16-20

IMPROVEMENT OF COMPONENT RELIABILITY IN MISSILES BY INDUCED FAILURE N64-23164 16-34

CONTROL OF REACTION-THRUST MISSILES
FTD-TT-62-908/1&2 N64-23390 16-30

COMMERCIAL APPLICATION OF MISSILE/SPACE TECHNOLOGY
NASA-CR-56719 N64-24335 17-01

CAUSES AND METHODS OF REDUCTION OF MISSILE VIBRATION N64-24886 17-30

FABRICATION OF PLASTIC MISSILE RADOME
TM-1156 N64-25531 17-17

STABILITY AND RESONANCE OF SYMMETRIC MISSILES
CARDE-TN-1599 N64-26047 18-02

NONLINEAR CONTROL SYSTEM FOR DIRECTION-CONTROLLED ANTITANK MISSILES
RG-TR-64-2 N64-26828 18-06

CONTROL OF MISSILE TRAJECTORIES WITH SPIN STABILIZATION AND AUTOMATIC ATTITUDE CONTROL
AGARD-392 N64-28657 20-30

FLIGHT TEST RESULTS FROM FOUR-COMPONENT BALANCE & OTHER AIRBORNE INSTRUMENTATION IN SUPERSONIC MISSILE WITH CRUCIFORM RECTANGULAR WINGS
WRE-TN-SAD-88 N64-28731 20-15

DIGITAL COMPUTER ADDRESSING METHODS - OPTIMUM SCHEME FOR MISSILE GUIDANCE COMPUTER
EF-3765-4 N64-30182 21-20

MISSILE ANTENNA
SIMULATED FLIGHT TO PLOT FIELD STRENGTH OF MISSILE ANTENNA SYSTEMS
RG-TR-63-19 N64-13650 05-10

RADIATION PATTERNS AND KINETIC HEATING STUDIES OF MISSILE ANTENNAS N64-18208 10-09

MISSILE-BORNE
MISSILE-BORNE TRACKING ANTENNA - TESTS OF ANTENNA TYPES

RG-TR-63-20 N64-13807 05-08

MISSILE CONFIGURATION
PRESSURE DISTRIBUTION ON BASE AND AFTERBODY OF MISSILE CONFIGURATION WITH AND WITHOUT JET FLOW USING SINGLE AND MULTIPLE NOZZLES
NASA-TN-D-2046 N64-10520 01-02

RADAR CROSS SECTION OF MISSILE CONFIGURATIONS - DETERMINATION USING PHYSICAL OPTICS
RF-TR-63-16 N64-13806 05-08

FACTORS INFLUENCING AERODYNAMIC STABILITY OF HYPERSONIC INTERCEPTOR TYPE MISSILE
N64-15629 07-30

MISSILE DESIGN
AUTOMATIC SEARCH METHODS FOR DIGITAL COMPUTER IN ESTIMATE OF OPTIMUM MISSILE MODEL PARAMETERS - DATA RETRIEVAL
SAD-129 N64-10273 01-04

WIND PROFILES AND MISSILE AND SPACECRAFT DESIGN
NASA-RP-237 N64-26402 18-21

MISSILE AND SPACECRAFT DESIGN - OPTIMUM DESIGN OF COLUMNS SUBJECTED TO STEADY STATE AND CYCLIC LOADS
N-20288-T N64-27037 19-34

MISSILE LAUNCHER
S LAUNCH VEHICLE

MISSILE RANGE
DETERMINATION AND CORRECTION OF ERRORS OF ATLANTIC MISSILE RANGE BALLISTIC CAMERA SYSTEMS REQUIRED FOR MISTRAM CALIBRATION N64-15314 07-15

ADVANCED RANGE INSTRUMENTATION SHIP EVALUATION AND DATA REDUCTION N64-15317 07-10

XENON FLASH OPTICAL BEACON FOR USE ON MISSILE RANGE CALIBRATION SATELLITE
EG&G-B-2730, PT. 2 N64-20100 13-06

STANDARD DATA TRANSMISSION FORMAT FOR TRANSFER OF TRAJECTORY DATA BETWEEN MISSILE RANGES
IRIG-102-63 N64-21123 14-08

PACIFIC MISSILE RANGE - FACILITY AND INSTRUMENTATION
PMR-MP-63-7 N64-21999 15-10

DESIGN, CONSTRUCTION, AND OPERATION OF MISSILE RANGES N64-22870 16-10

MISSILE FIRING RANGE IN EUROPE N64-22871 16-10

MISSILE TEST RANGES IN FRANCE N64-22872 16-01

MISSILE RANGES IN GREAT BRITAIN AND AUSTRALIA
N64-22874 16-10

ATLANTIC MISSILE RANGE N64-22875 16-10

MISSILE RANGE INSTRUMENTATION - SYSTEMS CONFIGURATION AND CONTROL N64-24861 17-15

IMPROVING MEASUREMENT ACCURACY OF MISSILE TRAJECTORIES FROM TRACKING SYSTEMS - ACCURACY OF TRACKING AT ATLANTIC MISSILE RANGE
N64-29102 21-08

COMPARISON OF INERTIAL GUIDANCE DATA WITH RANGE TRACKING DATA N64-29106 21-08

RADAR SIGNATURE PROCESSING AT ATLANTIC MISSILE RANGE N64-29114 21-08

METEOROLOGICAL DATA ACQUISITION AND PROCESSING SYSTEM FOR QUANTITATIVE DIFFUSION PREDICTION AS MISSILE RANGE SAFETY TOOL
AFCRL-63-791, VOL. II N64-31657 23-21

MISSILE SYSTEM
MANAGEMENT PLANNING AND TECHNICAL FACILITIES FOR MISSILE AND ROCKET SYSTEMS
AD-406208 N64-11640 03-10

TRACK-VEHICLE MISSILE SYSTEM DYNAMIC ENVIRONMENT DATA ACQUISITION AND APPLICATION
N64-23155 16-10

ENGINEERING SAFETY IN MISSILE-SPACE SYSTEMS
N64-25823 17-14

GUIDED MISSILE LAUNCHING ZONES FOR SHIPBOARD MISSILE LAUNCHING SYSTEMS
NWL-1928 N64-30741 22-10

MULTISYSTEM TEST EQUIPMENT FOR FIELD MAINTENANCE SUPPORT OF MISSILE SYSTEMS
ATE-MTE-23 N64-31257 22-10

BALLISTIC MISSILE SYSTEM FOR DETECTION OF HAZARDOUS VAPORS
AD-420350 N64-32391 23-06

MISSILE TEST
OFF-SITE RADIOLOGICAL MONITORING FOR MISSILE TEST RANGE N64-14573 06-10

METEOROLOGICAL SUPPORT FOR MISSILE TESTS
N64-15324 07-21

MISSION OF MISSILE RANGE IN ITALY
N64-22873 16-10

IMPACT OF EQUIPMENT LIFE CHARACTERISTICS ON MISSILE TEST PLANNING
RM-4102-PR N64-26199 18-17

TIME COINCIDENCE SEARCH UNIT FOR USE WITH TIME CODED SIGNALS RECORDED DURING MISSILE TESTS
WRE-TN-EC-2 N64-28060 20-09

MISSILE TRACKING
SA INFRARED TRACKING
BIBLIOGRAPHY OF SOVIET DEVELOPMENTS IN TRACKING MISSILES & SPACE VEHICLES
AID-P-63-24-19 N64-10112 01-08

NEW DATA REDUCTION METHODS TO IMPROVE MISSILE TRACKING RANGE DATA
AD-429095 N64-15312 07-01

CYCLIC ERROR IN MISSILE FREE-FALL DATA DUE TO ATMOSPHERIC REFRACTION N64-15322 07-20

SATELLITE RATED MISTRAM TRANSPONDER - TRACKING
AFCRL-64-36 N64-18608 11-30

ERROR IN ESTIMATING MISSILE ANGULAR POSITION AND ANGULAR VELOCITY AT CUT-OFF
P-2796 N64-21407 14-29

MISSILE TRACKING SYSTEMS - CONFERENCE
MTC-TDR-64-5 N64-29101 21-08

MISSILE IMPACT LOCATING SYSTEM/BROAD OCEAN AREA - POST-TEST CALIBRATION N64-29110 21-08

REAL TIME COMPUTER SYSTEM FOR PREDICTING MISSILE IMPACT POINT N64-29118 21-08

MISSILE LIFT-OFF MEASUREMENT SYSTEM - ALL-WEATHER, NUCLEONIC, HIGH PRECISION TRACKER
RADC-TDR-63-535 N64-31907 23-10

MISSILE TRACKING BY CONTINUOUS WAVE REFLECTION - DOPPLER AND INTERFEROMETER SYSTEMS
USA-ERDA-116 N64-33466 24-08

MISSILE TRAJECTORY
DETERMINATION OF AXIAL ORIENTATION OF ROCKET OR SATELLITE IN CONSTANT PRECESSIONAL MOTION
AFCRC-63-871 N64-12659 04-29

COMPUTER PROGRAM FOR CALCULATING WIND COMPENSATION FOR MISSILES IN FREE FLIGHT
SWC-TDR-63-67 N64-15078 07-22

DISPERSION AND PROBABILITY ANALYSIS FOR MISSILE TRAJECTORIES
AFSWC-TDR-63-66 N64-17473 09-29

FORTRAN COMPUTER PROGRAM FOR BALLISTIC MISSILE TRAJECTORY FROM LAUNCH TO IMPACT
AD-432285 N64-17487 09-29

DOPPLER RECEIVER TO IMPROVE MISSILE TRAJECTORY MEASUREMENTS
WRE-TN-EID-67 N64-19485 12-08

VARIATION OF WIND WITH TIME AND SPACE FOR MISSILE TRAJECTORY ANALYSIS
WRE-TN-PAD-80 N64-20011 13-21

APPROXIMATION METHOD FOR MISSILE TRAJECTORY REDUCTION FROM OPTICAL OBSERVATIONS
R63SD1045 N64-21791 15-29

MISSILE TRAJECTORY MEASUREMENT SYSTEM - OPERATION, ERRORS, AND DATA PROCESSING N64-29111 21-08

MISTRAM ACCURACY - ERRORS AND CORRECTION PROGRAM N64-29112 21-08

ESTIMATION PARAMETERS TO PREDICT ERRORS IN TRAJECTORY OF SUBMARINE-LAUNCHED BALLISTIC MISSILE
RM-3848-ARPA N64-32598 23-22

MISSION PLANNING
LITTLE JOE II MISSION EVALUATION
DC-12-008 N64-10079 01-04

MATCHING INTRINSIC NUCLEAR ROCKET CHARACTERISTICS TO MISSION REQUIREMENTS THROUGHOUT FLIGHT PROFILE
LMSC-A304063 N64-13926 05-30

MISSION PLANNING FOR TIROS SATELLITE N64-14889 06-32

PARAMETRIC MISSION ANALYSIS PERFORMED FOR POST-NOVA III LAUNCH VEHICLE, EMPIRE FOLLOW-ON, AND PLANETARY TRANSPORTATION MODELS
NASA-CR-55408 N64-14892 06-29

MISSION OF MISSILE RANGE IN ITALY N64-22873 16-10

SATURN I PROGRAM - SCHEDULE FOR SATURN IB LAUNCH VEHICLE AND DESCRIPTION OF ROCKET
AIAA PAPER-64-272 N64-23348 16-30

EXPANDABLE SPACECRAFT DESIGN, MISSION REQUIREMENTS, AND BOOSTER CAPABILITIES N64-23702 16-31

MANNED MARS MISSION USING ELECTRIC PROPULSION SYSTEMS
AIAA PAPER-64-498 N64-24166 16-27

VEHICLE REQUIREMENTS AND MISSION PLANNING FOR MANNED SPACE FLIGHT AND EXPLORATION OF MARS DURING 1975-1985 TIME PERIOD
AIAA PAPER-64-403 N64-25049 17-29

SCIENTIFIC MISSIONS ANALYZED FOR PAYLOAD AND VELOCITY REQUIREMENTS OF NUCLEAR-ELECTRIC PROPELLED SPACECRAFT
AIAA PAPER-64-714 N64-28371 20-27

SYSTEMS DESIGN AND MISSION PLANNING FOR SURVEYOR SOFT LANDING PROJECT
NASA-CR-58247 N64-28969 20-32

MISSION PLAN FOR TIROS VI SATELLITE
NASA-TM-X-54785 N64-33328 24-32

MISSION PLANS FOR MARINER MARS 1964 N64-33856 24-32

MITOSIS
MITOTIC CYCLE OF BONE MARROW CELLS IN MICE BY AUTORADIOGRAPHY
JPRS-21629 N64-10069 01-16

PHYLOGENETIC STUDY OF ANAEROBIC SEED GERMINATION, ENVIRONMENT EFFECTS ON GERMINATION, AND SEEDLING GROWTH
NASA-CR-52635 N64-15895 07-16

STATISTICAL ANALYSIS OF SUPPRESSING MECHANISM OF CELL DIVISION UNDER INFLUENCE OF IONIZING RADIATION N64-16904 09-16

BIOCHEMICAL MECHANISMS OF RADIATION-INDUCED DISTURBANCE OF CELL DIVISION N64-16905 09-16

ASYMPTOTIC PROPERTIES OF AGE-DEPENDENT BRANCHING PROCESSES ASSOCIATED WITH CELL POPULATIONS - MITOSIS
TECH. REPT.-94 N64-18466 10-20

RADIATION EFFECTS OF CARBON-LABELED AND TRITIUM-LABELED THYMIDINE ON CELL GROWTH
NASA-RP-196 N64-22071 15-16

EFFECT OF SPACE FACTORS ON MITOSIS IN MICROORGANISMS DURING FLIGHT
NASA-TT-F-8825 N64-23042 16-16

ALGAL CELL BUFFERING ACTIVITY & EFFECT ON CELL DIVISION N64-24008 16-16

MIXER
LOW NOISE TUNNEL DIODE MIXERS AND CONVERTERS
RADC-TDR-63-561 N64-18015 10-09

ULTRALOW DRAIN LOCAL OSCILLATORS AND MIXERS - ELECTRONIC EQUIPMENT
USAELRDL-TR-2438 N64-24216 16-09

RESISTANCE AND HEAT EXCHANGE IN MOTION OF HEATED AIR IN DIFFUSERS AND MIXERS
AID-T-64-25 N64-29596 21-13

TUNNEL DIODES AND POINT CONTACT DIODES FOR USE AS MILLIMETER WAVE MIXERS
REPT.-4 N64-31125 22-09

NOISE-FIGURE MEASUREMENTS OF X-BAND WAVEGUIDE MIXER WITH TUNNEL DIODE
AFCRL-64-547 N64-31807 23-09

MIXING
S JET MIXING
S LAMINAR MIXING

MIXTURE
S BINARY MIXTURE
S GAS MIXTURE

MOBILITY
SA ION MOBILITY
NERVOUS RESPONSE OF MAN TO INCREASED GRAVITY AND SPACE FLIGHT CONDITIONS - MOBILITY IN PRENATALLY IRRADIATED DOGS
JPRS-17586 N64-11521 03-01

MOBILITY RESPONSES IN ANTENATALLY IRRADIATED DOGS AT VARIOUS AGES - SENSORY STIMULATION N64-11524 03-16

TEMPERATURE LIMITATIONS AND ELECTRONIC EQUIPMENT PACKAGING FOR LUNAR MOBILE LABORATORY
NASA-CR-61019 N64-31719 23-09

CESIUM ION-NEUTRAL SCATTERING AND ION MOBILITY IN LOW FIELD LIMIT
NASA-TM-X-52061 N64-32437 23-24

MODAL RESPONSE
MODAL PATTERNS, MODAL FREQUENCIES, AND DAMPING FACTORS OF LIGHTLY DAMPED STRUCTURES DETERMINED BY COMPONENT ANALYZER N64-18556 11-33

MODE
S COUPLED MODE
S FAILURE MODE
S PROPAGATION MODE

MODE OF VIBRATION
AXIAL VIBRATION MODES IN RUBY LASER OUTPUT OPERATED NEAR THRESHOLD N64-13746 05-23

MODE SHAPE
PSI MODE STUDY OF DOUBLE REENTRANT KLYSTRON CAVITIES N64-16144 08-09

MATRIX METHOD USING FLEXIBILITY INFLUENCE COEFFICIENTS FOR DETERMINING MODE SHAPES AND NATURAL FREQUENCIES OF SPACE VEHICLES
NASA-TM-X-54566 N64-16332 08-31

STATE DETERMINATION FOR FLEXIBLE VEHICLE WITHOUT MODE SHAPE REQUIREMENT
NASA-CR-53099 N64-16742 08-04

MODEL
$ ATMOSPHERE MODEL
$ DYNAMIC MODEL
$ LIGHTHILL MODEL
$ SCALE MODEL
$ SPACECRAFT MODEL
$ TWO-FLUID MODEL

MODERATOR
ALUMINUM AND ITS OXIDES AS SOURCES OR MODERATORS OF ELECTRONS IN SOLID PROPELLANT ROCKET EXHAUST
QSR-6 N64-21797 15-24

MODULATED CONTINUOUS WAVE
MODULATED OSCILLATION - STRUCTURE OF NOISE FLUCTUATION AND SIGNAL-TO-NOISE RATIO IN CONTINUOUS WAVES N64-15133 07-08

MODULATION
SA CARRIER MODULATION
SA DEMODULATION
SA FREQUENCY MODULATION
SA IONOSPHERIC CROSS MODULATION
SA OPTICAL MODULATION
SA PHASE MODULATION
SA PULSE CODE MODULATION /PCM/
SA PULSE DURATION MODULATION /PDM/
SA PULSE FREQUENCY MODULATION /PFM/
SA PULSE POSITION MODULATION /PPM/
SA PULSE-TIME MODULATION
SA PULSE WIDTH MODULATION /PWM/
SA SINGLE-SIDEBAND MODULATION
SEPARATING TWO AMPLITUDE-MODULATED SIGNALS WITH OVERLAPPING SPECTRA IN RECEIVER
JPRS-18802 N64-10644 01-09

MILLIMETER WAVE MODULATION & SIGNAL PROCESSING - LOW-NOISE RECEIVER & STABLE REFERENCE SOURCE
TDR-169/3250-45/TR-1 N64-12186 03-08

MULTILOBE DIRECTIVITY PATTERN IN SURFACE-WAVE ANTENNA BY MODULATION OF IMPEDANCE PLANE
N64-12744 04-08

ULTRASONIC LIGHT MODULATOR TO INTRODUCE ACTIVE SIGNAL INTO LIGHT BEAM FOR COMPUTING PURPOSES
REPT.-2900-444-R N64-28113 20-15

MILLIMETER-WAVE MODULATION AND SIGNAL PROCESSING TECHNIQUES
SSD-TDR-64-52 N64-29581 21-08

MICROWAVE TRANSMISSION EQUIPMENT - ADAPTIVE CIRCUITRY, DIGITAL MODULATION, AND SOLID STATE VARACTOR MULTIPLIERS
RR-3762-PR N64-32855 24-08

RADIOMETER SENSITIVITY INCREASE BY NOISE MODULATION OF INPUT SIGNAL N64-32907 24-08

UNPOWERED TRANSMITTERS OF DUAL CARRIER BIPOLAR MODULATED SIGNALS
AD-442888 N64-33697 24-08

MODULATION INDUCING RETRODIRECTIVE OPTICAL SYSTEM
MODULATION INDUCING RETRODIRECTIVE OPTICAL SYSTEMS /MIROS/ PROGRAM - OPTICAL PUMPING
NASA-CR-52859 N64-11109 02-23

F-CENTER MODULATION TRANSFER SCHEME FOR MIROS PROGRAM
NASA-CR-55087 N64-12160 03-25

MODULATION INDUCING RETRODIRECTIVE OPTICAL SYSTEMS
NASA-CR-55076 N64-12395 03-23

MERCURY ABSORPTION CELL ANALYSIS - MIROS PROGRAM
NASA-CR-51425 N64-13011 04-25

MERCURY CELL FOR MODULATION INDUCING RETRO-DIRECTIVE OPTICAL SYSTEM /MIROS/, AND ALKALI HALIDE CRYSTALS
NASA-CR-55250 N64-13496 05-23

MIROS PROGRAM - MERCURY CELL MODULATION TRANSFER SCHEME
NASA-CR-53564 N64-18422 10-28

MODULATION INDUCING RETRODIRECTIVE OPTICAL SYSTEM STUDIES - OPTICAL PUMPING AND FREE CARRIER ABSORPTION
NASA-CR-56172 N64-20813 14-23

RESPONSE OF CESIUM OPTICAL PUMPING SYSTEM TO AUDIOMODULATED MICROWAVE SIGNALS - MIROS PROGRAM
NASA-CR-56566 N64-24124 16-06

MODULATION TECHNIQUE
INFRARED RADIATION MODULATING METHODS
N64-15468 07-23

MODULATION, ANTENNA, ACQUISITION AND TRACKING, AND LOW-NOISE RECEIVING SYSTEMS FOR TRANSPORTABLE GROUND STATION IN SPACE COMMUNICATION SYSTEM
REPT.-64-15 N64-31427 23-10

MODULATOR
SA ELECTRON TUBE
DESIGN OF WIDEBAND FREQUENCY MODULATED DEMODULATOR USED AT ANDOVER FOR TELSTAR SATELLITE COMMUNICATIONS TESTS N64-10881 02-08

WIDEBAND LASER MODULATORS USING CRYSTALS WITH LINEAR ELECTRO-OPTIC EFFECTS, MICROWAVE PHOTOTUBE TO DEMODULATE LIGHT N64-12563 04-25

WIDEBAND LASER MODULATORS USING CRYSTALS WITH LINEAR ELECTRO-OPTIC EFFECTS, MICROWAVE PHOTOTUBE TO DEMODULATE LIGHT N64-12563 04-25

MERCURY CELL FOR MODULATION INDUCING RETRO-DIRECTIVE OPTICAL SYSTEM /MIROS/, AND ALKALI HALIDE CRYSTALS
NASA-CR-55250 N64-13496 05-23

ELECTRON GUN FOR PRODUCTION OF MAGNETICALLY CONFINED ELECTRON BEAM N64-16131 08-23

MINIATURE MAGNETIC MODULATOR MULTIPLEXER
N64-16165 08-08

FEEDBACK DEMODULATOR FOR DEMODULATION OF ANALOG SIGNALS
REPT.-65G-5 N64-17371 09-08

20-NANOSECOND MODULATOR TO PULSE MAGNETRONS WITH PULSE REPETITION FREQUENCIES OF 15 KILOCYCLES
USAELRDL-TR-2414 N64-18876 11-08

K-BAND ABSORPTION MODULATOR FOR HIGH SPEED SWITCHING OR AMPLITUDE MODULATION OF MICROWAVE POWER
TR-1151 N64-19240 11-15

FABRY-PEROT INTERFEROMETER WITH ELECTRO-OPTICAL CRYSTALS AS PHASE SHIFTERS AND USED AS WIDEBAND COHERENT LIGHT MODULATOR
ASD-TDR-63-604 N64-20732 13-25

DETECTION TECHNIQUES FOR LIGHT MODULATED AT MICROWAVE FREQUENCY - FM DEMODULATION SCHEMES
EDL-M670 N64-22115 15-23

IMPACT MODULATOR - FLUID MECHANICS DEVICE
N64-23811 16-11

FLUID MECHANICS DEVICES - DIRECT & TRANSVERSE IMPACT MODULATORS N64-23812 16-11

SINGLE-BAND CRYSTAL DIODE MODULATOR AS LOCAL DIODE OSCILLATOR IN ELECTRON PARAMETRIC RESONANCE SPECTROMETER
FTD-TT-64-317/1&2&4 N64-24325 17-15

OPTICAL PATH IMPERFECTION EFFECT ON FABRY-PEROT MODULATOR PERFORMANCE
AL-TDR-64-141 N64-30762 22-23

FLUORESCENCE DURATION MEASUREMENT WITH PHASE FLUOROMETER - EXCITATION BY HIGH FREQUENCY MODULATED LIGHT
TR-413 N64-32275 23-23

FERROELECTRIC BOLOMETER, SEMICONDUCTOR DIODES, AND FERRITE MODULATAOR FOR SUBMILLIMETER WAVE RECEIVER
NASA-CR-58947 N64-33206 24-08

MODULE
SA ELECTRONIC MODULE
PERFORMANCE CHARACTERISTICS AND POWER REQUIREMENTS OF LARGE MODULES AND ARRAYS OF ELECTROSTATIC THRUSTOR
AIAA PAPER-64-503 N64-22678 15-27

FABRICATION OF THERMIONIC DOUBLE DIODE MODULES
MND-3149-1 N64-25581 17-09

RADIATION RESISTANCE OF THERMIONIC INTEGRATED MICROMODULES N64-28680 20-09

MICROMINIATURIZATION AND CONTINUING NEED FOR CLASSICAL ELECTRIC COMPONENTS
JPRS-16075 N64-28776 20-09

INDICATOR MODULE AND INTEGRATED MODULAR PROGRAMMER
MPR-8 N64-29603 21-15

MODULES OF COHERENT BINARY SYSTEMS
D1-82-0344 N64-30649 22-20

VEHICLE SYSTEMS OPERATIONAL TEST OF STATIC ORBITAL FUEL CELL AND DESIGN OF PROTOTYPE FUEL CELL POWER SYSTEM BASED ON MULTICELL MODULE
QTPR-3 N64-32197 23-06

MODULUS
SA DYNAMIC MODULUS
DEUTERON IRRADIATION EFFECTS ON ELECTRICAL RESISTIVITY AND ELASTIC MODULUS OF TUNGSTEN
AFCRL-63-183 N64-13034 04-23

COMPLEX SHEAR MODULUS OF HOMOGENEOUS, ISOTROPIC AND LINEARLY VISCOELASTIC MATERIAL /CYLINDER/
NASA-CR-58238 N64-29704 21-33

MOHAWK AIRCRAFT
FLYING QUALITIES AND SPIN EVALUATION OF EXTENDED WING MOHAWK AIRCRAFT
FT-134-0-IA.8 N64-31303 22-04

MOIRE METHOD
MOIRE FRINGE MEASURING SYSTEM FOR FAR INFRARED INTERFEROMETRIC SPECTROMETER
AFCRL-63-735 N64-12048 03-15

MOISTURE
SA HUMIDITY
STATIC MOISTURE REMOVAL SYSTEM FOR CAPILLARY HYDROGEN-OXYGEN FUEL CELL
NASA-CR-52652 N64-11120 02-06

RELATION BETWEEN HEAT EXCHANGE AND MOISTURE AT OCEAN-ATMOSPHERE INTERFACE - DEVELOPMENT OF CYCLONES IN NORTH ATLANTIC OCEAN
N64-11602 03-21

MOISTURE ANALYZER FOR DETERMINING TEMPERATURE OF MARS ATMOSPHERE
NASA-CR-56454 N64-24042 16-29

STATIC MOISTURE REMOVAL SYSTEM FOR CAPILLARY MEMBRANE HYDROGEN-OXYGEN FUEL CELL
NASA-CR-58852 N64-33209 24-06

MOL
S MANNED ORBITAL LABORATORY /MOL/

MOLD
SA MANDREL
INVESTMENT AND CHILL MOLD CASTING
JPRS-25135 N64-23507 16-19

CASTING IMPELLERS IN CHILL MOLDS WITH CERAMIC CORES N64-23510 16-19

WATER-FREE EXPENDABLE GRAPHITE MOLD MATERIAL FOR REACTIVE METAL CASTINGS
BM-RI-6509 N64-28139 20-17

MOLDAVITE
MORPHOLOGICAL DETAILS OF MOLDAVITES FROM BOHEMIA AND MORAVIA
NASA-TT-F-111 N64-12691 04-12

MOLDING MATERIAL
CAPILLARY EXTRUSION RHEOMETER TO MEASURE FLOW PROPERTIES OF THERMOSETTING PLASTIC MOLDING POWDERS
MLM-1211 N64-29608 21-1

COLD-SETTING PLASTIC MOLDING MATERIAL FOR INVESTMENT CASTING
JPRS-26697 N64-32126 23-1

MOLECULAR BEAM
SA ATOMIC CLOCK
CF PARTICLE BEAM
HIGH-SPEED HIGH-INTENSITY MOLECULAR BEAM
NASA-CR-52865 N64-11260 02-1

SCATTERING OF MOLECULES FROM SURFACES - APPARATUS MISALIGNMENT EFFECTS ON DIRECTION & INTENSITY OF INCIDENT & SCATTERED BEAMS
K-1584 N64-13389 04-1

INELASTIC MOLECULAR COLLISIONS USING MOLECULAR BEAM TECHNIQUE - SQUID PROJECT N64-13489 05-2

ELASTIC SCATTERING OF HIGH ENERGY MOLECULAR BEAMS
N64-16245 08-2

PROPERTIES OF GAS PHASE FREE RADICALS AND DEVELOPMENT OF MOLECULAR BEAM REACTOR
AD-412955 N64-17868 10-2

INELASTIC COLLISIONS STUDIED WITH MOLECULAR BEAM - SQUID PROJECT N64-18863 11-2

GAS DISSOCIATION, ROCKET NOZZLE FLUID DYNAMICS, MOLECULAR BEAM CHEMICAL KINETICS
SR-4-4 N64-20564 13-0

PHYSICAL PROPERTIES OF PHOTOEMITTING MATERIALS PHOTOCATHODE PRODUCTION BY MOLECULAR BEAM DEPOSITION
AD-439853 N64-21233 14-2

QUANTUM MECHANICS IN SMALL ANGLE MOLECULAR BEAM SCATTERING N64-24996 17-2

DISSOCIATED GAS STUDIES, MOLECULAR BEAM CHEMICAL KINETIC STUDIES, AND ROCKET NOZZLE FLUID DYNAMICS
SR-4-53 N64-25724 17-1

MOLECULAR BEAM DETERMINATION OF ENERGY LEVELS IN PHOTODISSOCIATION OF POLYATOMIC MOLECULES
UCRL-11359 N64-25817 17-2

MAGNETIC FIELD EFFECTS ON MOLECULAR BEAM SCATTERING FROM TARGET ROTOR
AST-3530-102-64U N64-27232 19-1

SPEED DISTRIBUTION IN WELL-COLLIMATED MOLECULAR BEAM PRODUCED BY NEARLY COLLISIONLESS EFFUSION
UVA-4-P-1 N64-27559 19-1

LOW DENSITY GAS FLOW AT HIGH SPEEDS AND DEVELOPMENT OF INTENSE MOLECULAR BEAMS OF NONCONDENSABLE GASES
AST-3503-104-64U N64-27785 19-2

CONSTRUCTION AND OPERATION OF INSTRUMENT TO MEASURE MOMENTUM TRANSFER TO TARGET SURFACE BY INCIDENT MOLECULAR BEAM - ELECTRIC MICROBALANCE
N64-28289 20-

MOLECULAR BEAM APPARATUS, HYDROGEN SULFIDE SPECTROSCOPY, AND MILLIMETER WAVE STUDIES
OR-3408 N64-32140 23-

HIGH TEMPERATURE GAS FLOW RESEARCH - DISSOCIATED GASES, MOLECULAR BEAM CHEMICAL KINETICS, AND ROCKET NOZZLE FLUID DYNAMICS
SR-4-2 N64-32281 23-

EXCITATION OF METASTABLE ATOMS AND MOLECULES BY ELECTRON IMPACT ON THERMAL MOLECULAR BEAM
AFCRL-64-698 N64-33267 24-

SHOCK TUBE DRIVEN MOLECULAR BEAM - UNSTEADY EFFE ON SKIMMER AND STAGNATION HEAT TRANSFER
NASA-CR-58958 N64-33283 24-

MOLECULAR BEAM SPECTROMETRY OF CARBON MONOXIDE-OXYGEN FLAMES

QTSR-11 N64-33423 24-13

SURFACE SPUTTERING BY ATOMS, IONS, AND MOLECULES - LABORATORY MEASUREMENTS BY MOLECULAR BEAM, AND IN UPPER ATMOSPHERE FROM INSTRUMENTED SATELLITES
GD/A-DBE-64-048 N64-33841 24-25

MOLECULAR CHAIN
S CRYSTAL LATTICE

MOLECULAR INTERACTION
DEPENDENCE OF DIELECTRIC CONSTANT & POLARIZATION OF TWO-COMPONENT ORGANIC LIQUID ON MOLECULAR INTERACTION
JPRS-17841 N64-10725 02-23

INTERMOLECULAR FORCES & SPACE GROUP OF SOLID CHLORINE N64-10824 02-25

MOLECULAR AND IONIC INTERACTION IN DIELECTRICS N64-14185 06-23

MOLECULAR INTERACTIONS AT GAS-SOLID INTERFACES
HE-150-208 N64-18623 11-23

VISCOSITY OF ISOTOPES OF HYDROGEN AND THEIR INTERMOLECULAR FORCE POTENTIALS - SQUID PROJECT
BRN-11-P N64-25797 17-19

APPLICATION OF MOLECULAR ORBITALS TO MULTI-ATOMIC SYSTEMS - INTERACTION BETWEEN STABLE MOLECULES AND ATOMS, AND SIMPLE DIATOMIC SYSTEMS N64-27294 19-23

IMPROVEMENT OF ELECTRONIC WAVE FUNCTION FOR DIATOMIC BERYLLIUM BY CONFIGURATION INTERACTION N64-27295 19-23

IMPROVEMENT IN ELECTRONIC WAVE FUNCTION FOR DIATOMIC CARBON BY CONFIGURATION INTERACTION N64-27296 19-23

INTERACTION OF HEXAALKYLDISILAZANES WITH CARBOXYLIC ACIDS AND DIATOMIC PHENOLS
RSIC-264 N64-32485 23-07

GAS MOLECULE INTERACTIONS WITH CRYSTAL SURFACES BY MEAN INTERACTION PARAMETERS AND MOLECULAR DISTRIBUTION
NASA-CR-58957 N64-33282 24-11

MOLECULAR ORBIT
MOLECULAR ORBITAL THEORY OF SOME MICHAEL REACTIONS - CHAIN PSEUDOACIDS
TIL/T-5226 N64-10238 01-23

MOLECULAR ORBITAL STUDY OF EXCITED STATES OF HYDROGEN MOLECULE
NASA-CR-53081 N64-16752 08-23

ULTRAVIOLET ABSORPTION SPECTRUM OF TETROL-ALDEHYDE - MOLECULAR ORBITAL THEORY OF DICHLORO-ETHYLENES - MICROWAVE SPECTROSCOPY
UCRL-11229 N64-18995 11-23

APPLICATION OF MOLECULAR ORBITALS TO MULTI-ATOMIC SYSTEMS - ELECTRONIC WAVE FUNCTIONS FOR DIATOMIC BERYLLIUM AND CARBON
AD-435425 N64-27293 19-23

APPLICATION OF MOLECULAR ORBITALS TO MULTI-ATOMIC SYSTEMS - INTERACTION BETWEEN STABLE MOLECULES AND ATOMS, AND SIMPLE DIATOMIC SYSTEMS N64-27294 19-23

ONE-CENTER SELF-CONSISTENT FIELD MOLECULAR ORBITAL WAVE FUNCTIONS FOR GROUND STATES OF WATER, HYDROGEN SULFIDE, AND HYDROGEN CHLORIDE MOLECULES N64-30317 22-23

MOLECULAR PHYSICS
SELF-CONSISTENT FIELD /SCF/ PROGRAMS IN MOLECULAR PHYSICS
AD-423022 N64-13129 04-23

ATOMIC AND MOLECULAR QUANTUM MECHANICS
AD-428801 N64-14477 06-23

ULTRASONIC WAVES AND MOLECULAR BIOPHYSICS
JPRS-25651 N64-26086 18-16

SPECTRUM OF DIATOMIC HELIUM MOLECULE N64-30307 22-23

RYDBERG STATES OF HOMOPOLAR DIATOMIC MOLECULES N64-30310 22-23

MOLECULAR SPECTRUM
CF MASS SPECTRUM
INTENSITY OF 4-0 QUADRUPOLE BAND OF MOLECULAR HYDROGEN N64-19581 12-23

PHOTOELECTRIC ATLAS OF INTENSE LINES OF HYDROGEN MOLECULAR EMISSION SPECTRUM
ATN-64/9233/-2 N64-26761 18-23

FILING OF MOLECULAR ABSORPTION SPECTRA DATA IN INFRARED REGION - DATA HANDLING SYSTEMS N64-29065 21-23

MOLECULAR STRUCTURE
SA RAMAN SCATTERING
STRUCTURE & FUNCTION OF MOLECULAR LEVEL LIFE, AND CORRELATION BETWEEN FORMS OF MOTION & FORMS OF MATTER
JPRS-21806 N64-10269 01-16

INFRARED SPECTRUM AND STRUCTURE OF SODIUM NITROMETHANE
AFCRL-63-757 N64-12273 03-23

IONIC STRUCTURAL ANALYSIS OF CHLORO-ARSENIC-FLUORIDE BY X-RAY INSPECTION AND MOLECULAR WEIGHT DETERMINATIONS
AD-424714 N64-13099 04-26

ELECTRONIC CONFIGURATION & BEHAVIOR OF NITROGEN-FLUORINE GROUP
AD-425473 N64-13310 04-07

OPACITY CALCULATION OF ENERGY LEVELS, WAVE FUNCTIONS, ELECTRONIC OCCUPATION, TRANSITIONS, AND MOLECULAR SCATTERING
LAMS-3002 N64-14056 05-23

MACROMOLECULAR STRUCTURE OF RIBONUCLEIC ACIDS
JPRS-24068 N64-17973 10-16

SINGLE-CRYSTAL X-RAY ANALYSIS OF 1-ETHYLDECABORANE MOLECULAR STRUCTURE N64-18808 11-07

OPTICAL PROPERTIES AND MOLECULAR STRUCTURE OF NUCLEIC ACIDS AND THEIR PROPERTIES OBSERVED THROUGH DEOXYRIBONUCLEIC ACID N64-19439 12-16

DEOXYRIBONUCLEIC ACID MOLECULAR STRUCTURE AND CONTINUOUS MODELS OF EXCITABLE MEDIA
JPRS-24256 N64-19782 12-01

FLEXIBILITY OF MOLECULES OF NATURAL DNA - DETERMINATION USING LIGHT SCATTERING AT LARGE ANGLES N64-19783 12-16

ENERGIES AND WAVE FUNCTIONS OF NITROGEN OXIDE FREE RADICAL AND MOLECULAR STRUCTURES
AFCRL-64-123 N64-20162 13-23

OPTICAL ANISOTROPY AND CONFORMATION OF MOLECULES OF SOLUBLE RIBONUCLEIC ACID
JPRS-24844 N64-21045 14-07

MOLECULAR STRUCTURE DETERMINATION BY ONE DIMENSIONAL X-RAY DIFFRACTION METHOD
FTR-1 N64-21221 14-07

THEORIES OF MOLECULAR STRUCTURE AND PLASMA PHYSICS IN FIRST PICOSECOND OF WIRE EXPLOSION N64-21378 14-23

TABLES AND ALGORITHM FOR CALCULATING FUNCTIONAL GROUPS OF ORGANIC MOLECULES IN HIGH RESOLUTION MASS SPECTROMETRY
NASA-CR-57009 N64-21426 14-07

SYNTHESIS AND MOLECULAR STRUCTURE OF ZEOLITES
FTD-TT-63-979/1&2 N64-21937 15-07

INFRARED ABSORPTION AND DISPERSION, ULTRASONICS,

AND MOLECULAR STRUCTURE STUDIES
AFCRL-64-368 N64-22268 15-07

MOLECULAR STRUCTURE AND TENSILE PROPERTIES OF FILAMENT WOUND PLASTICS
NRL-6047 N64-23247 16-19

MICROWAVE SPECTROSCOPIC METHODS FOR MOLECULAR STRUCTURE DETERMINATION OF 2,4-DICARBAHEPTABORANE
NASA-CR-56465 N64-23937 16-07

CORRELATIVE STUDIES OF BIOLOGICAL MOLECULAR STRUCTURE BY HIGH RESOLUTION ELECTRON MICROSCOPY
NASA-CR-56227 N64-24110 16-16

STRUCTURE OF DIALLYL PHTHALATE POLYMERS BY INFRARED SPECTROMETRY N64-24130 16-19

SOLID STATE DEVICE, LASERS, REFRACTORY CRYSTALS, MOLECULAR RESONANCE, AND STRUCTURAL BAND RESEARCH
ESD-TDR-64-47 N64-26264 18-25

MOLECULAR STRUCTURE & CLEAVAGE OF OXYGEN-OXYGEN BONDS
AROD-2454-7 N64-26645 18-07

MOLECULAR FREQUENCY STANDARD BASED ON MOLECULAR RESONANT SPECTRAL LINES
AD-431030 N64-26853 18-23

SEPARATION OF ELECTRONIC AND NUCLEAR MOTIONS IN MOLECULES USING TIME-DEPENDENT QUANTUM MECHANICAL METHODS
ARL-64-134 N64-26925 18-23

MOLECULAR GEOMETRY OF HIGH TEMPERATURE LIGHT METAL COMPOUNDS BY ELECTRIC DIPOLE DETERMINATIONS USING MOLECULAR BEAM ELECTRIC DEFLECTION
ITR-7 N64-28297 20-07

RELATION OF RADIANT ENERGY FROM FLAME TO MOLECULAR STRUCTURE OF HYDROCARBON FUELS
RDR-3752-64R N64-28690 20-26

ROTATIONAL RAMAN SPECTRA FOR OBTAINING MOLECULAR STRUCTURAL PARAMETERS N64-29063 21-23

CRYSTAL AND MOLECULAR STRUCTURE OF LOW MOLECULAR WEIGHT COMPOUNDS
AROD-3983-15 N64-29297 21-07

NEUTRON SCATTERING ON GAS, LIQUID, AND SOLID MOLECULAR SYSTEMS
FTD-TT-64-196/162 N64-29592 21-23

RESEARCH IN MOLECULAR STRUCTURE AND SPECTRA, QUANTUM MECHANICS, AND ATOMIC PHYSICS
AD-438424 N64-30304 22-23

TWO-CENTER INTEGRALS FOR CALCULATION OF DIATOMIC MOLECULAR STRUCTURES N64-30314 22-23

ONE-CENTER SELF-CONSISTENT FIELD MOLECULAR ORBITAL WAVE FUNCTIONS FOR GROUND STATES OF HYDROGEN FLUORIDE, METHANE, AND SILANE N64-30315 22-23

ONE-CENTER SELF-CONSISTENT FIELD MOLECULAR ORBITAL WAVE FUNCTIONS FOR GROUND STATES OF AMMONIA, AMMONIUM ION, PHOSPHINE, AND PHOSPHONIUM ION
N64-30316 22-23

MOLECULAR STRUCTURE STUDIES USING MOSSBAUER EFFECT - IRON COMPLEXES AND COMPOUNDS
N64-30743 22-07

PACKING OF INTERSTITIAL DODECABORIDE GROUPS IN BORON AND BORIDE STRUCTURES
TR-3 N64-30753 22-25

STRUCTURAL DAMAGE IN SHEET DRAWING OF COPPER AND ALUMINUM ALLOYS
AD-603404 N64-30882 22-18

VIBRATIONAL SPECTRUM, STRUCTURE, AND FORCE CONSTANTS OF NITRIC ACID
AFCRL-64-651 N64-31373 23-07

INTERRELATIONSHIPS BETWEEN PHYSIOLOGICAL PHENOMENA OF GIBBERELLIN COMPOUNDS AND MOLECULAR STRUCTURE
JPRS-26841 N64-31840 23-16

ELECTRONIC STRUCTURE OF DIATOMIC MOLECULES USING HOMONUCLEAR AND HETERONUCLEAR DIATOMIC SELF-CONSISTENT FIELD /SCF/ PROGRAMS
QSR-20 N64-32554 23-23

MOLECULAR STRUCTURE FROM BOND STRETCHING FREQUENCY IN POLYETHYLENE COMPOUNDS BY INFRARED SPECTROSCOPY
AFCRL-64-744 N64-32666 23-07

CHEMICAL AND MECHANICAL ENERGY CONVERSION BY MACROMOLECULAR SYSTEMS IN CONTRACTILES
AD-600541 N64-33677 24-07

MOLECULAR THEORY
THEORETICAL AND EXPERIMENTAL STUDIES ON ATOMIC AND MOLECULAR SPECIES AND THEIR REACTION & EXCITATION MECHANISMS
NASA-CR-53100 N64-16737 08-23

MOLECULAR WEIGHT
FORTRAN PROGRAM FOR DESOXYRIBONUCLEIC ACID MOLECULAR WEIGHTS FROM VISCOSITY & CENTRIFUGAL SEDIMENTATION
LA-2964 N64-10318 01-07

DISTRIBUTION OF MOLECULAR WEIGHTS IN VINYL CHLORIDE POLYMERIZED BY IRRADIATION
NIJS-R-417 N64-12135 03-07

MOLECULAR WEIGHT OF POLYETHYLENETEREPHTHALATE DETERMINED FROM TERMINAL RADICAL
NASA-TT-F-191 N64-12719 04-07

CAPTURE COEFFICIENT FOR GASES AT 77 DEG K AS FUNCTION OF MOLECULAR WEIGHT, HEAT CONDENSATION, & DEBYE TEMPERATURE - HYDROGEN BONDING EFFECT
AEDC-TDR-64-37 N64-20076 13-23

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS - CATALYSTS AND CATALYTIC ACTIVITY IN INTERMEDIATE SYSTEMS FORMED DURING SYNTHESIS OF LOW MOLECULAR WEIGHT ORGANIC COMPOUNDS
BL-86 N64-22781 16-16

GRAPHIC METHOD OF CONVERTING COMPOSITION OF GLASS FROM WEIGHT PERCENT TO MOLAR PERCENT
N64-23189 16-19

VALIDITY RANGE OF DEBYE AND RAYLEIGH EQUATIONS FOR DETERMINING MOLECULAR WEIGHTS FROM LIGHT SCATTERING
TR-10/56/ N64-27720 19-23

MOLECULAR WEIGHTS OF MACROMOLECULES FROM INTRINSIC VISCOSITY MEASUREMENTS
SC-RR-64-978 N64-27972 20-07

OPTICAL SPECTRA OF LOW MOLECULAR WEIGHT COMPOUNDS USING MATRIX ISOLATION TECHNIQUE
IITRI-C6013-4 N64-28817 20-13

CRYSTAL AND MOLECULAR STRUCTURE OF LOW MOLECULAR WEIGHT COMPOUNDS
AROD-3983-15 N64-29297 21-07

EFFECTS OF MOLECULAR WEIGHT AND DOSAGE ON COAGULATION INHIBITION BY HIGH-WEIGHT POLYMERS IN RABBITS N64-31343 23-16

OPTICAL SPECTRA OF LOW MOLECULAR WEIGHT COMPOUNDS FORMED IN EXHAUST GASES OF ROCKET MOTORS
IITRI-C6013-5 N64-32962 24-07

MOLECULE
SA DIATOMIC MOLECULE
ADVANCED OXIDIZER MOLECULAR ORBIT CALCULATIONS AND NONBONDED INTERACTIONS IN POLYATOMIC MOLECULES
S-13892 N64-12819 04-26

INFLUENCE OF END GROUPS ON GLASS TEMPERATURE & FLOW TEMPERATURE OF MACROMOLECULAR GLASSES
RAE TRANS-1045 N64-12905 04-19

REACTIONS OF IONS AND ELECTRICALLY EXCITED SPECIES WITH ATOMS AND MOLECULES IN GAS PHASE - SQUID PROJECT N64-13487 05-24

LUMINESCENCE OF COMPLEX ORGANIC MOLECULES DURING ENERGY LEVEL CONVERSION
AID-B-63-125 N64-14021 05-23

CRYSTAL STRUCTURE & LATTICE ENERGY OF POLYPEPTIDE AND POLYETHYLENE POLYMERS - HELICAL MACROMOLECULES
AD-425881 N64-14031 05-23

FORTRAN PROGRAM FOR COMPUTING MOMENTS OF INERTIA OF RIGID MOLECULES
NASA-TN-D-2085 N64-15844 07-20

COLLISION-INDUCED DISSOCIATION RATES OF DIATOMIC AND TRIATOMIC MOLECULES
NASA-CR-53345 N64-17822 09-23

MACROMOLECULAR STRUCTURE OF RIBONUCLEIC ACIDS
JPRS-24068 N64-17973 10-16

GENETIC TRANSFER AND MACROMOLECULE FINDINGS FOR TAXONOMY OF BACTERIA N64-18056 10-16

CORRELATION OF AMINO ACID RADICALS IN PROTEIN MOLECULES N64-18518 11-16

MOLECULAR BIONICS N64-18837 11-16

ANGULAR DEPENDENCE OF INTENSITY OF LIGHT AND X-RAY SCATTERING BY BIOPOLAR MACROMOLECULE IN SPIRAL-TO-BALL TRANSITION REGION N64-19438 12-07

PHOTOEXCITED TRIPLET STATES OF POLYATOMIC MOLECULES BY ELECTRON PARAMAGNETIC RESONANCE AND PHOSPHORESCENCE METHODS
FTD-TT-64-183/162 N64-19771 12-25

QUANTUM THEORY OF ENERGIES OF EXCITED STATE ATOMS & MOLECULES IN UPPER & STELLAR ATMOSPHERES AND MATERIALS UNDER COMBUSTION
NASA-CR-53704 N64-20003 13-23

RELATIONSHIP OF ELECTRONIC TRANSITIONS IN POLYATOMIC MOLECULES TO ABSORPTION SPECTRA
ARL-63-2481 N64-21022 14-23

VARIATIONS IN POPULATIONS OF VIBRATIONAL LEVELS OF HYDROXYL MOLECULE N64-21878 15-12

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS - CATALYSTS AND CATALYTIC ACTIVITY IN INTERMEDIATE SYSTEMS FORMED DURING SYNTHESIS OF LOW MOLECULAR WEIGHT ORGANIC COMPOUNDS
BL-86 N64-22781 16-16

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS - PHOTOCATALYSTS, RADIOCATALYSTS, & LOW MOLECULAR WEIGHT ORGANIC SYNTHESIS
NASA-CR-56531 N64-22792 16-16

MOLECULAR GENERATOR WITH TWO SERIES CAVITIES USING AMMONIA N64-23809 16-25

QUANTUM MECHANICAL STUDY OF DIATOMIC MOLECULES
NASA-TN-D-2363 N64-25713 17-23

MOLECULAR BEAM DETERMINATION OF ENERGY LEVELS IN PHOTODISSOCIATION OF POLYATOMIC MOLECULES
UCRL-11359 N64-25817 17-23

REDUCED ENERGIES FOR ASYMMETRIC TOP MOLECULES
RE-172 N64-25921 18-05

DISSOCIATION OF METHANE MOLECULE IONS FORMED IN CHARGE EXCHANGE COLLISIONS WITH POSITIVE IONS - ION-MOLECULE REACTIONS OF METHANE
AFCRL-64-545 N64-27535 19-07

QUANTUM EFFECTS IN ELASTIC SCATTERING OF MOLECULES
NASA-CR-56897 N64-27869 20-23

MOLECULAR WEIGHTS OF MACROMOLECULES FROM INTRINSIC VISCOSITY MEASUREMENTS
SC-RR-64-978 N64-27972 20-07

DENSITY OF MOLECULES IN INTERSTELLAR SPACE N64-28388 20-28

INORGANIC MACROMOLECULES WITH SILICON-OXYGEN-METAL LINK
AD-601415 N64-28664 20-07

ELECTRONIC STRUCTURES OF POLYATOMIC MOLECULES BY QUANTUM MECHANICS
AFCRL-64-458 N64-31134 22-25

STARK EFFECTS IN NEAR INFRARED SPECTRA OF POLYATOMIC MOLECULES, HINDERED ROTATION IN HYDROGEN PEROXIDE, AND INFRARED ABSORPTION OF MATRIX ISOLATED AMMONIA
AFCRL-64-668 N64-32581 23-07

ENERGY TRANSFER BETWEEN MOLECULES AND EXCITED ATOMS - QUENCHING OF EXCITED ARGON ATOMS FORMED BY BETA RADIATION FROM TRITIUM SOURCE AND LOW ENERGY ELECTRON IMPACT N64-33279 24-11

SPACE LIFETIMES IN PARENT MOLECULES OF COMET RADICALS ESTIMATED FROM ABSORPTION CROSS SECTIONS & SOLAR ULTRAVIOLET FLUX
NASA-RP-351 N64-33988 24-29

MOLLIER DIAGRAM
PREPARATION AND PROPERTIES OF SOLID COBALT 60 STANDARD SOURCES AND SOLUTIONS AND COINCIDENCE COUNTING METHOD
EUR-477.E N64-18407 10-23

MOLLIER DIAGRAM SHOWING THERMODYNAMIC PROPERTIES OF AIR IN CHEMICAL EQUILIBRIUM N64-19079 11-23

COMPUTER PROGRAM FOR CHEMICAL EQUILIBRIUM COMPLEX - MOLLIER DIAGRAM
DCAS-TDR-62-138, VOL. II N64-22964 16-07

MOLTEN-SALT ELECTROLYTE
THERMOPOTENTIAL MEASUREMENTS ON MOLTEN SALTS, LEAD CHLORIDE, CADMIUM CHLORIDE, AND CADMIUM BROMIDE, UNDER THERMAL GRADIENTS
NASA-RP-129 N64-15883 07-19

TRANSFER OF ALLOYING METALS DURING ELECTROREFINING OF TITANIUM IN MOLTEN-SALT ELECTROLYTE
BM-RI-6437 N64-19171 11-17

OPEN-CIRCUIT VOLTAGES OF MOLTEN-SALT ELECTROLYTES FOR ENERGY CONVERSION - EFFECT OF ATMOSPHERIC PRESSURE CHANGES ON CELL VOLTAGE
NASA-CR-56014 N64-20647 13-21

INFRARED ANALYSIS OF GASES PRODUCED DURING MOLTEN SALT ELECTROLYSIS OF METALS
BM-RI-6476 N64-23242 16-23

CHEMICAL REDUCTION USING SOLUTION OF CALCIUM IN MOLTEN SALT
UCRL-11205 N64-23331 16-19

ELECTRICAL CONDUCTIVITY AND DENSITY OF MOLTEN-SALT ELECTROLYTES - URANIUM TETRAFLUORIDE AND THORIUM FLUORIDE WITH ALKALI FLUORIDES
BM-RI-6500 N64-26844 18-18

CONFERENCE ON CRYSTAL GROWTH, MOLTEN SALTS AND SLAGS, PLANT DISEASES, AND SYNTHETIC DIAMONDS
JPRS-25417 N64-28008 20-01

NIOBIUM METAL ELECTROREFINED IN FUSED SALT ELECTROLYTE
BM-RI-6506 N64-28453 20-18

MOLTEN-SALT ELECTROREFINING OF URANIUM
BM-RI-6507 N64-28500 20-07

ADDITIVES TO IMPROVE COMPOSITION OF ALUMINUM BATH ELECTROLYTE - SALT WITH MAGNESIUM AND CHLORINE IONS N64-31415 23-07

MOLTEN-SALT REACTOR /MSRE/
FABRICATION OF HEAT EXCHANGER TUBE BUNDLE FOR MOLTEN-SALT REACTOR EXPERIMENT
ORNL-3500 N64-11592 03-13

DESIGN, METALLURGY, RADIATION EFFECT, AND FUEL PROCESSING OF MOLTEN-SALT REACTOR
ORNL-3529 N64-13137 04-23

MOLTEN SALT REACTORS, AQUEOUS REACTORS, AND GAS COOLED REACTORS - REACTOR CHEMISTRY

ORNL-3591 N64-19910 12-07

MOLYBDATE
CRYSTALLOGRAPHY OF SOME TRANSITION METAL MOLYBDATES
RM-229 N64-26433 18-07

MOLYBDENUM
DEFECTS IN SILICIDE COATING ON MOLYBDENUM AS FUNCTION OF STRESS CHANGE WITH TEMPERATURE VARIATION
JPRS-21758 N64-10122 01-33

HOT ROLLING OF MOLYBDENUM IN VACUUM, ARGON, AND AIR
JPRS-21757 N64-10173 01-18

HIGH VACUUM SINTERING-ALLOYING OF TITANIUM CARBIDE AND MOLYBDENUM, AND HEAT PRESSING
N64-11010 02-18

EXPERIMENTS WITH TUNGSTEN, MOLYBDENUM, & ALLOYS OF REFRACTORY METALS
JPRS-17955 N64-11014 02-01

INFLUENCE OF TITANIUM, ZIRCONIUM, AND THORIUM OXIDES UPON THE RECRYSTALLIZATION OF MOLYBDENUM
N64-11016 02-18

ENTHALPY OF MOLYBDENUM AT TEMPERATURES OF 700- TO 2337-DEG C
N64-11017 02-18

LOW-TEMPERATURE SINTERING OF MOLYBDENUM
N64-11021 02-18

HYDROSTATIC PRESSING OF COPPER, IRON, NICKEL, AND MOLYBDENUM POWDERS N64-11479 03-17

STRIP ROLLING & ELECTROSLAG RESMELTING MOLYBDENUM
JPRS-22285 N64-11600 03-17

DETERMINATION OF TRACE AMOUNTS OF BORON IN MOLYBDENUM
RTD-TDR-63-4082 N64-12578 04-07

PARALLEL PLANE CESIUM THERMIONIC CONVERTER WITH OXYGEN-TREATED TANTALUM EMITTER & MOLYBDENUM COLLECTOR
QPR-3 N64-13590 05-09

ENGINEERING PROPERTIES OF MOLYBDENUM AND MOLYBDENUM ALLOYS
DMIC-190 N64-13671 05-18

PRODUCTION AND METALLURGICAL PROPERTIES OF ZIRCONIUM, NIOBIUM, MOLYBDENUM, AND IRON
JPRS-22697 N64-13726 05-01

POLYCRYSTALLINE MOLYBDENUM AS ELECTRODE MATERIAL FOR CESIUM VAPOR THERMIONIC CONVERTERS
N64-14210 06-06

EFFECTS OF IMPURITIES & NEUTRON IRRADIATION ON PROPERTIES & STRUCTURE OF POLYCRYSTALLINE & SINGLE CRYSTAL MOLYBDENUM, NICKEL, AND RHENIUM
N64-14227 06-18

HIGH TEMPERATURE EFFECT ON POLYCRYSTALLINE MOLYBDENUM SUBSTRATES USED IN CESIUM VAPOR THERMIONIC CONVERTERS
NASA-CR-55387 N64-14863 06-06

CHANGE OF ELECTRON WORK FUNCTION DURING COLD WORKING OF MOLYBDENUM & TANTALUM AND HIGH TEMPERATURE DEFORMATION OF REFRACTORY METALS
JPRS-23121 N64-14878 06-17

OPTICAL CONSTANT MEASURING METHOD FOR SINGLE CRYSTALS OF TUNGSTEN, MOLYBDENUM, AND NIOBIUM
AFCRL-63-547 N64-15067 07-23

EXTRUDING AND DRAWING MOLYBDENUM TO COMPLEX THIN H-SECTION
RTD-TR-8-112/2/ N64-16079 07-17

ANALYSIS OF SHEET MOLYBDENUM FOR GAS CONTENT
N64-17024 09-07

THERMOMECHANICAL PROCEDURE OF PRESSURE WORKING HIGH MELTING HEAT RESISTANT MOLYBDENUM & CHROMIUM
N64-17081 09-17

ELECTROCHEMICAL DEBURRING OF MOLYBDENUM, ALUMINUM, AND STAINLESS STEEL
A478 N64-17136 09-17

MOLYBDENUM AND ITS ALLOYS - SHEET FABRICATION AND BONDING PROCESSES, INFAB ATMOSPHERE PURITY STUDIES
N64-17214 09-18

HEATED THERMIONIC CONVERTER WITH HOT SHELL TO PROTECT MOLYBDENUM REFRACTORY METAL EMITTER FROM OXIDATION N64-17390 09-06

DISLOCATION CONFIGURATIONS IN ZONE-MELTED SINGLE CRYSTAL MOLYBDENUM N64-17448 09-25

ELECTRON PROJECTION DIODE FOR STUDYING THERMIONIC EMISSION FROM SINGLE CRYSTAL REFRACTORY METAL FILAMENTS - RECRYSTALLIZED MOLYBDENUM DATA
AFCRL-64-234 N64-17449 09-25

LIFE TEST OF PLANAR MOLYBDENUM-EMITTER CESIUM VAPOR THERMIONIC CONVERTER OPERATING UNDER STEADY-STATE CONDITIONS
ASD-TDR-63-183 N64-18567 11-06

DIFFUSION OF SILICON IN TITANIUM, TANTALUM, IRON, AND MOLYBDENUM
FTD-MT-63-39/1&2 N64-18669 11-25

MECHANICAL PROPERTIES & RECRYSTALLIZATION OF SINGLE CRYSTALS OF MOLYBDENUM
FTD-MT-63-43/1&2 N64-18670 11-18

MOLYBDENUM AND MOLYBDENUM-BASE ALLOYS - MECHANICAL PROPERTIES AND FABRICATION TECHNOLOGY
AD-436397 N64-19051 11-18

KINETICS OF HIGH TEMPERATURE OXIDATION OF MOLYBDENUM BY DISSOCIATED OXYGEN
TP-84 N64-19085 11-18

CURRENT-VOLTAGE CHARACTERISTICS OF CESIUM THERMIONIC CONVERTER WITH SINGLE CRYSTAL MOLYBDENUM EMITTER
ASD-TDR-63-748 N64-19641 12-06

ELECTRODEPOSITION OF MOLYBDENUM METAL FROM MOLTEN ELECTROLYTES
BM-RI-6444 N64-21799 15-07

STRESS-RUPTURE AND CREEP ANALYSIS OF RHENIUM, TUNGSTEN, & ARC CAST MOLYBDENUM
GEMP-35A N64-22208 15-33

EXTRUDING AND DRAWING MOLYBDENUM TO COMPLEX THIN H-SECTION
RTD-TR-8-112 N64-22310 15-18

FORGING MOLYBDENUM AND MOLYBDENUM ALLOYS
FTD-TT-62-1789/1&2 N64-22401 15-18

STABILITY OF SELECTED OXIDES, NITRIDES AND BORIDES IN MOLYBDENUM TO 4000 DEG F
SSD-TDR-64-88 N64-22560 15-18

DENSITY CHANGES ON ANNEALING COLD-WORKED MOLYBDENUM
FA-A64-6 N64-22893 16-18

BORON PARTICLE SIZE, SPECTROCHEMICAL ANALYSIS, PYROHYDROLYSIS, MOLYBDENUM AND TECHNETIUM HYDROLYSIS
NBL-210 N64-23061 16-23

CEMENTATION COATING PROCESS FOR HIGH TEMPERATURE PROTECTION OF MOLYBDENUM
PF-61-9 N64-23379 16-18

PLASTIC DEFORMATION EFFECT ON MECHANICAL PROPERTIES OF NICKEL ALLOYS & METALLOGRAPHY OF MOLYBDENUM
FTD-TT-62-1169/1&2&4 N64-23457 16-18

POLYGONIZATION IN MOLYBDENUM - HIGH TEMPERATURE METALLOGRAPHY N64-23459 16-18

RUBIDIUM AND CESIUM IONS SCATTERED FROM MOLYBDENUM SURFACE
N64-24569 17-23

HIGH TEMPERATURE EFFECTS ON CRYSTAL SURFACE STRUCTURE OF CESIATED MOLYBDENUM EMITTERS FOR THERMIONIC CONVERTERS
NASA-CR-77 N64-24828 17-13

PREPARATION OF MOLYBDENUM SINGLE CRYSTALS BY ELECTRON-BEAM FLOATING-ZONE MELTING
FTD-TT-64-350/1626364 N64-26121 18-17

ADSORPTION OF NITROGEN ON TUNGSTEN WIRE AND CARBON MONOXIDE ON MOLYBDENUM
IR-64-255.7 N64-26215 18-23

PRODUCTION AND THERMIONIC EMISSION DATA OF TUNGSTEN AND MOLYBDENUM SINGLE CRYSTALS
AFCRL-64-410 N64-26895 18-25

LOW PRESSURE EFFECT ON OXIDATION PROTECTION OF SILICIDE COATINGS ON MOLYBDENUM AND COATING OF MOLYBDENUM COMPONENTS
N64-27007 19-17

MOLYBDENUM EFFECT ON PROPERTIES OF AUSTENITIC CHROMIUM-NICKEL-COPPER STEELS
N64-27150 19-18

SCIENCE AND TECHNOLOGY OF TUNGSTEN, TANTALUM, MOLYBDENUM, NIOBIUM, AND THEIR ALLOYS - REFRACTORY ALLOY CONFERENCE
AGARDOGRAPH-82 N64-27576 19-18

STRENGTH AND HARDNESS OF REFRACTORY ALLOYS OF NIOBIUM, TANTALUM, MOLYBDENUM, AND TUNGSTEN METALS
N64-27578 19-18

THERMOPHYSICAL PROPERTIES OF TUNGSTEN, NIOBIUM, MOLYBDENUM, AND TANTALUM - REFRACTORY ELEMENTS
N64-27585 19-18

OXIDATION BEHAVIOR OF MOLYBDENUM, TUNGSTEN, NIOBIUM, AND TANTALUM IN GASEOUS ATMOSPHERES OF OXYGEN-NITROGEN, CARBON MONOXIDE-CARBON DIOXIDE, AND HYDROGEN-WATER MIXTURES
N64-27588 19-18

FABRICATION TESTS OF MOLYBDENUM, NIOBIUM, TUNGSTEN, TANTALUM - REFRACTORY ALLOYS
N64-27593 19-18

CESIUM BEAM EFFUSION PATTERNS, MOLYBDENUM FOR MICROWAVE STRUCTURES, AND MAGNETIC SHIELDING MEASUREMENTS
QPR-2 N64-27626 19-09

ZINC, COPPER, COBALT, AND MOLYBDENUM IN SOILS OF EUROPEAN PART OF USSR
JPRS-26040 N64-28350 20-07

X-RAY ANALYSIS OF RECRYSTALLIZATION OF BORIDES OF TITANIUM, ZIRCONIUM, AND MOLYBDENUM AND CARBIDES OF TITANIUM AND TUNGSTEN
JPRS-16059 N64-28632 20-07

SELF-CONSISTENT FIELD CALCULATIONS BY EXPANSION METHOD FOR GROUND STATES OF NEUTRAL AND SINGLY CHARGED MOLYBDENUM ATOMS
N64-30312 22-23

PLASTIC BEHAVIOR OF ARC-CAST MOLYBDENUM AND ELASTIC LINEAR STRAIN HARDENING OF ZINC ALLOY BEAM
ML-TDR-64-158 N64-30692 22-18

DEFORMATION TEXTURE, RECRYSTALLIZATION, AND TRANSITION TEMPERATURE OF MOLYBDENUM SINGLE CRYSTALS
BM-RI-6539 N64-30821 22-18

BEND TRANSITION TEMPERATURE OF ARC-CAST WORKED, RECRYSTALLIZED, AND WELDED MOLYBDENUM AND MOLYBDENUM-TITANIUM ALLOY SHEET
NASA-TN-D-1869 N64-30997 22-18

PHOTOELECTRIC AND THERMIONIC SCANNER MEASUREMENTS OF SURFACE IONIZATION FROM POLYCRYSTALLINE MOLYBDENUM IN CESIUM VAPOR ATMOSPHERE
NASA-CR-59008 N64-32893 24-09

METALLURGICAL BONDING OF PLASMA SPRAYED TUNGSTEN ON HOT MOLYBDENUM SUBSTRATES
NASA-RP-342 N64-33061 24-17

MECHANICAL PROPERTIES OF CHROMIUM, MOLYBDENUM, AND TUNGSTEN WITH RHENIUM ADDITION IN SOLID SOLUTION
NASA-CR-118 N64-33078 24-18

CHROMIUM, MOLYBDENUM, AND TUNGSTEN BINDERS FOR ZIRCONIUM DIBORIDE SUBJECTED TO MECHANICAL SHOCK AT HIGH TEMPERATURES
BM-RI-6549 N64-33247 24-18

SCALE UP & THERMAL TESTING OF ZIRCONIUM-BORIDE-MOLYBDENUM-SILICIDE REFRACTORY CERAMIC COMPOSITE FOR LEADING EDGES OF HYPERSONIC VEHICLES
REPT.-2178-900204 N64-33655 24-34

INITIAL STAGES OF OXIDATION OF MOLYBDENUM
AROD-4397-2 N64-33665 24-18

MOLYBDENUM ALLOY

HIGH VACUUM SINTERING-ALLOYING OF TITANIUM CARBIDE AND MOLYBDENUM, AND HEAT PRESSING
N64-11010 02-18

MIGRATION OF BOTH COMPONENTS OF TUNGSTEN-MOLYBDENUM ALLOYS WITH TEMPERATURE
N64-11018 02-18

THERMAL PROPERTIES OF REFRACTORY MATERIALS - BORON CARBIDE, NIOBIUM, TANTALUM, AND MOLYBDENUM ALLOYS, AND ZIRCONIUM NITRIDE
ASD-TDR-63-597 N64-11471 03-13

TWINNING MECHANISM IN SINGLE CRYSTAL DEFORMATION OF A MOLYBDENUM-RHENIUM ALLOY
N64-11528 03-25

MODIFIED CHROMIUM-MOLYBDENUM ALLOY STEELS FOR SODIUM COOLING SYSTEMS
NAA-SR-7544 N64-11955 03-18

MECHANICAL PROPERTIES OF MOLYBDENUM AND TUNGSTEN SILVER ALLOYS
WAL-TR-372/32-7-T3 N64-12316 03-18

METALLURGY OF TERNARY ALLOYS OF NIOBIUM-TUNGSTEN-ZIRCONIUM, AND OF NIOBIUM-MOLYBDENUM-ZIRCONIUM
JPRS-22593 N64-12358 03-18

CASTING OF REFRACTORY MOLYBDENUM AND TUNGSTEN BASE ALLOYS INTO SHEET MATERIALS
AD-422106 N64-12377 03-33

MELTING OF BINARY AND TERNARY ALLOYS OF TUNGSTEN, MOLYBDENUM, AND RHENIUM
N64-12448 04-18

METALLURGICAL AND MECHANICAL PROPERTIES OF HEAT-TREATED MOLYBDENUM-ALUMINUM-TITANIUM ALLOY FORGING
A247 N64-13101 04-18

FABRICATION CHARACTERISTICS OF ALUMINUM-VANADIUM-MOLYBDENUM-TITANIUM BASE ALLOY
A248 N64-13102 04-18

PRODUCTION & TESTING OF MOLYBDENUM-TITANIUM AND TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY SHEET
AD-423981 N64-13118 04-18

ENGINEERING PROPERTIES OF NIOBIUM, MOLYBDENUM, TANTALUM, AND TUNGSTEN ALLOYS
DMIC-188 N64-13301 04-18

ENGINEERING PROPERTIES OF MOLYBDENUM AND MOLYBDENUM ALLOYS
DMIC-190 N64-13671 05-18

WETTING CARBIDE ALLOYS OF MOLYBDENUM & TITANIUM WITH NICKEL AND FORMING ALUMINUM NITRIDE BY POWDER METALLURGY
JPRS-22655 N64-13697 04-01

MOLYBDENUM-TITANIUM CARBIDE SYSTEMS - MELTING POINTS, AND X-RAY & MICROSCOPIC DATA ON CAST, SINTERED, & ANNEALED ALLOYS - POWDER METALLURGY
N64-13698 05-07

OXIDE FILM ON ZIRCONIUM-NIOBIUM AND ZIRCONIUM-NIOBIUM-MOLYBDENUM ALLOYS IN AIR
N64-13729 05-18

URANIUM-MOLYBDENUM ALLOYS FOR LIQUID-METAL-COOLED REACTOR FUELS

NAA-SR-6262 N64-14406 06-23

MACHINING TESTS OF TITANIUM-ZIRCONIUM-MOLYBDENUM AND MOLYBDENUM-TITANIUM ALLOYS, AND THEIR MICROSTRUCTURE AND CHEMICAL COMPOSITION
ASD-TDR-63-581 N64-14873 06-17

DEFORMATION AND COMPRESSION OF QUENCHED URANIUM-MOLYBDENUM ALLOYS
AERE-R-4353 N64-15603 07-18

LATTICE MEASUREMENTS BY VEGARD LAW PLOTS OF RUTHENIUM-MOLYBDENUM, RUTHENIUM-TUNGSTEN, AND RUTHENIUM-TANTALUM ALLOYS
AD-429068 N64-15884 07-25

OXIDATION TESTS OF PLATINUM COATINGS - PREPARATION OF COATING FOR NIOBIUM OR MOLYBDENUM ALLOYS AND OF DIFFUSION BARRIER LAYERS
AD-429754 N64-15935 07-18

JOINING PROPERTIES OF NIOBIUM, MOLYBDENUM, AND NICKEL ALLOYS AND CERAMIC-TO-METAL JOINING
AD-431252 N64-16830 08-18

MECHANICAL AND PHYSICAL PROPERTIES OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY AND TUNGSTEN SHEET
REPT.-6659-1479-5 N64-16992 09-18

ALLOYING TUNGSTEN AND MOLYBDENUM WITH PEARLITIC STEEL - HIGH TEMPERATURE ALLOY N64-17029 09-18

X-RAY SPECTROSCOPIC STUDIES OF IRON-MOLYBDENUM & IRON-ALUMINUM ALLOYS N64-17055 09-23

INFLUENCE OF CHROMIUM CONTENT ON LONGTIME STRENGTH OF CHROMIUM-MOLYBDENUM STEEL
N64-17066 09-18

RESISTANCE TO PLASTIC DEFORMATION & HARDNESS OF BINARY SYSTEMS OF NICKEL WITH CHROMIUM, TUNGSTEN, AND MOLYBDENUM AT HIGH TEMPERATURES
N64-17068 09-18

DETERMINATION OF RESISTANCE WELDABILITY OF TZM MOLYBDENUM ALLOY THIN SHEET
A475 N64-17133 09-17

ELECTRON BEAM WELDING OF NIOBIUM, TUNGSTEN, MOLYBDENUM, NICKEL, AND ALUMINUM ALLOYS
N64-17211 09-18

MOLYBDENUM AND ITS ALLOYS - SHEET FABRICATION AND BONDING PROCESSES, INFAB ATMOSPHERE PURITY STUDIES
N64-17214 09-18

CALCIUM REDUCTION AND CONSOLIDATION OF SUPERIOR QUALITY MOLYBDENUM ALLOYS
WCA-1001-9 N64-17356 09-18

EVALUATION OF COATING FOR NIOBIUM AND MOLYBDENUM ALLOY FOILS
RTD-TDR-63-4006, PT. 1 N64-17515 09-18

GRAIN SIZE, AGING, AND ANNEALING STUDIES OF NICKEL-COBALT-MOLYBDENUM MARAGING STEEL
SM-43111 N64-18715 11-18

WELDABILITY OF NICKEL-COBALT-MOLYBDENUM MARAGING STEEL SHEET
SM-44648 N64-19024 11-18

MOLYBDENUM AND MOLYBDENUM-BASE ALLOYS - MECHANICAL PROPERTIES AND FABRICATION TECHNOLOGY
AD-436397 N64-19051 11-18

CREEP RESISTANCE OF STEELS CONTAINING VARYING AMOUNTS OF NICKEL AND ALLOYED WITH TUNGSTEN OR MOLYBDENUM
FTD-TT-64-48/1&2 N64-19769 12-18

FORGING PROCEDURE AND MECHANICAL PROPERTIES OF NICKEL-COBALT-MOLYBDENUM MARAGING STEEL
FZM-2608 N64-20070 13-18

DUCTILE COATING FOR OXIDATION PROTECTION OF NIOBIUM AND MOLYBDENUM ALLOYS
BMPR-4 N64-20103 13-17

CORROSION AND ELECTROCHEMICAL BEHAVIOR OF TITANIUM AND TITANIUM-MOLYBDENUM ALLOYS N64-20915 14-18

MECHANICAL AND PHYSICAL PROPERTIES OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY AND TUNGSTEN SHEET
REPT.-6774-1479-VI N64-21410 14-18

FORGING MOLYBDENUM AND MOLYBDENUM ALLOYS
FTD-TT-62-1789/1&2 N64-22401 15-18

TENSION AND FLEXURE TESTING OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOYS FOR X-20A AIRCRAFT
REPT.-311.23 N64-22428 15-18

PHYSICAL PROPERTIES OF WELDED COBALT-MOLYBDENUM-NICKEL ALLOY PLATE - WELDING TECHNIQUES, AGING, FRACTURE TOUGHNESS, & FAILURE SUSCEPTIBILITY
SM-45959 N64-22488 15-18

EFFECT OF DIFFUSED CHROMIUM PLATING ON MECHANICAL PROPERTIES OF ZIRCONIUM-MOLYBDENUM ALLOY
A745 N64-22587 15-18

ULTRASONIC INSPECTION OF RMS-184 TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY SHEET FOR DISCONTINUITY DEFECTS
A746 N64-22588 15-17

METALLOGRAPHIC EXAMINATION OF TITANIUM-ZIRCONIUM MOLYBDENUM ALLOY SHEET
A747 N64-22589 15-17

TENSILE PROPERTIES OF SILICIDE COATED TITANIUM-ZIRCONIUM-MOLYBDENUM SHEET ALLOY AT ROOM AND ELEVATED TEMPERATURES
A748 N64-22590 15-18

HYDROPURIFICATION OF REFINED DIESEL OIL WITH ALUMINUM-NIOBIUM-MOLYBDENUM CATALYST
FTD-TT-62-1735/1&2&4 N64-22632 15-07

REFRACTORY MATERIALS FOR COATINGS AND FASTENERS AND COATED FASTENER OF TITANIUM-ZIRCONIUM-MOLYBDENUM SYSTEM ALLOY N64-25045 17-17

METALLOGRAPHIC STUDY OF MICROSCOPIC DEFECTS IN ZIRCONIUM-MOLYBDENUM ALLOY PANELS
A744 N64-26216 18-18

RELATIONSHIP OF TWINNING TO BRITTLE FRACTURE IN REFRACTORY METALS - MOLYBDENUM-RHENIUM ALLOY
ASD-TDR-63-360, PT. II N64-26218 18-18

PLASMA ARC TECHNIQUE FOR SPECTROCHEMICAL DETERMINATION OF TITANIUM AND ZIRCONIUM IN MOLYBDENUM ALLOYS
ML-TDR-64-36 N64-26855 18-07

DIFFUSION STUDIES OF COMMERCIALLY AVAILABLE COATING ON MOLYBDENUM ALLOY SHEET AT 2500 DEG F
N64-27022 19-19

MOLYBDENUM, NIOBIUM, TANTALUM, AND TUNGSTEN BASE ALLOYS AT ELEVATED TEMPERATURE - REFRACTORY ALLOY
N64-27580 19-18

POWDER METALLURGY CONSOLIDATION OF TUNGSTEN, MOLYBDENUM, NIOBIUM, AND TANTALUM ALLOYS-REFRACTORY ALLOYS N64-27595 19-18

DIFFUSION EFFECTS OF SILICATE-BASE OXIDATION RESISTANT COATING ON MOLYBDENUM-TITANIUM ALLOY
NASA-TN-D-2039 N64-28321 20-17

OXIDATION RESISTANT COATINGS ON MOLYBDENUM BASE ALLOYS - SILICIDE BASE COATINGS
NASA-TN-D-2040 N64-28332 20-17

DUCTILE COATING FOR OXIDATIVE PROTECTION OF NIOBIUM AND MOLYBDENUM ALLOYS
BPR-5 N64-28611 20-18

EFFECTS OF TECHNOLOGICAL PROCESSES ON MECHANICAL PROPERTIES OF CAST TITANIUM AND MOLYBDENUM ALLOYS
N64-29041 21-18

SCALE UP OF SILICIDE ALLOY COATING TO PROTECT MOLYBDENUM ALLOYS AGAINST HIGH TEMPERATURE OXIDATION

ML-TDR-64-84 N64-29976 21-18

POWDER OR GAS CEMENTATION PROCESS FOR COATING MOLYBDENUM ALLOYS FOR TEMPERATURE PROTECTION
ML-TDR-64-74 N64-30628 22-17

POWDER METALLURGY OF SUPERALLOY BILLETS - BLEND OF MOLYBDENUM POWDER WITH TITANIUM AND ZIRCONIUM CARBIDE
ASD-7-911/VII/ N64-30902 22-18

EXTRUDING AND DRAWING MOLYBDENUM ALLOY TO COMPLEX THIN H-SECTION
RTD-TR-8-112, PART 4 N64-30988 22-18

BEND TRANSITION TEMPERATURE OF ARC-CAST WORKED, RECRYSTALLIZED, AND WELDED MOLYBDENUM AND MOLYBDENUM-TITANIUM ALLOY SHEET
NASA-TN-D-1869 N64-30997 22-18

NOTCH SENSITIVITY OF REFRACTORY METALS - FRACTURE TOUGHNESS AND CRACK PROPAGATION IN MOLYBDENUM AND NIOBIUM ALLOYS
BPR-1 N64-32439 23-18

MECHANICAL & PHYSICAL PROPERTIES OF TZM ALLOY SHEET AND TUNGSTEN SHEET
QPR-7 N64-33948 24-18

MOLYBDENUM COMPOUND
RHENIUM IN MOLYBDENITE CONCENTRATES
JPRS-19929 N64-10837 02-18

HEATS OF COMBUSTION & FORMATION OF CARBIDES OF TUNGSTEN & MOLYBDENUM
BM-RI-6337 N64-12120 03-26

MOLYBDENUM SINGLE CRYSTAL GROWTH FROM GASEOUS PHASE OF MOLYBDENUM CHLORIDE BY THERMAL DISSOCIATION N64-13730 05-25

CORROSION PREVENTION WHEN USING MOLYBDENUM DISULFIDE LUBRICANTS N64-19153 11-17

ADAPTATION OF MOLYBDENUM SULFIDE IN SITU PROCESS FOR LUBRICATING SPACECRAFT MECHANICAL COMPONENTS N64-19364 12-17

DEPOSITION OF MOLYBDENUM DISULFIDE FILM FOR SPACECRAFT MECHANISM LUBRICATION
NASA-TN-D-2288 N64-21064 14-17

METALLOGRAPHIC EXAMINATION OF EFFECTS OF MOLYBDENUM DISULFIDE COATED ON STAINLESS STEEL UNDER HIGH TEMPERATURE CONDITIONS
A755 N64-22597 15-17

MOMENT
SA PITCHING MOMENT
SA ROLLING MOMENT
AERODYNAMIC HINGE MOMENTS CAUSED BY EXTERNAL FLOW ON SATURN I, BLOCK I NOZZLE CONFIGURATIONS
NASA-TM-X-51044 N64-10105 01-30

LATERAL CONTROL & HINGE MOMENT OF SPOILER-SLOT-DEFLECTOR ON SWEPTBACK WING AT SUBSONIC SPEED
NASA-TN-D-2037 N64-10617 01-02

MOMENT PROBLEM IN NONLINEAR PROGRAMMING - OPTIMIZATION THEORY
SSD-TDR-63-178 N64-12686 04-20

TABLES OF EXPONENTIAL MOMENTS
EUR-462.F N64-13144 04-20

OSCILLATORY LIFT & MOMENT DISTRIBUTION OF SURFACE-PIERCING FLEXIBLE CANTILEVER SUBCAVITATING HYDROFOILS
AD-422754 N64-15595 07-03

THEORY OF MOMENT INVARIANTS APPLICATION TO ADAPTIVE PATTERN RECOGNITION N64-15815 07-20

EXPERIMENTAL STUDIES OF PATTERN RECOGNITION USING MOMENT INVARIANTS N64-15816 07-20

FORTRAN PROGRAM FOR COMPUTING MOMENTS OF INERTIA OF RIGID MOLECULES
NASA-TN-D-2085 N64-15844 07-20

EXPANSION OF FUNCTION OF NEWTONIAN ATTRACTION OF TWO BODIES WITH RESPECT TO MOMENTS OF INERTIA FOR NONMAJOR AND NONCENTRAL AXES OF INERTIA N64-16199 08-20

INCREASE OF SOUND VELOCITY IN METALS DUE TO EXTERNAL MAGNETIC FIELD INTERACTION WITH MAGNETIC MOMENT OF CONDUCTION ELECTRONS
NASA-CR-53533 N64-18214 10-25

GRAPHICAL METHOD FOR DETERMINATION OF AXIAL AND TRANSVERSE MOMENTS OF INERTIA IN SOLIDS OF REVOLUTION
FA-R-1708 N64-20553 13-23

HYPERSONIC WIND TUNNEL TESTS OF FORCE AND MOMENT CHARACTERISTICS OF SIMPLE WING SERIES IN AIR AND HELIUM
NASA-TN-D-2328 N64-22672 15-03

COMPUTER PROGRAMS FOR EIGENVALUE SPACING DISTRIBUTIONS AND MOMENTS
BNL-863/T-346/ N64-24922 17-23

FORCE, MOMENT, AND HINGE-MOMENT CHARACTERISTICS OF SURFACE-PIERCING DIHEDRAL HYDROFOILS
REPT.-964 N64-25382 17-03

FORCES AND MOMENTS DUE TO PROPELLERS OF ARBITRARY CONFIGURATION INCLINED WITH RESPECT TO FREE-STREAM
ADR-01-03-63.2 N64-25836 18-03

MECHANICAL INTEGRATION METHOD FOR OBTAINING TRANSVERSE MOMENTS OF INERTIA
PA-TM-1423 N64-27695 19-02

OPTICAL MEASUREMENT OF MOMENTS IN THIN BENT PLATES
RSIC-237 N64-28532 20-33

SPIN ECHO PHENOMENA - MEASUREMENT OF NUCLEAR MAGNETIC RELAXATION & MICROSTRUCTURE OF MOLECULES, APPLICATION IN PREPARATION OF DELAY LINES & STORAGE UNITS N64-29055 21-23

MAGNETIC SYMMETRY AND ELECTRON-NUCLEUS INTERACTIONS IN MAGNETIC CRYSTALS
TN-1 N64-30051 21-25

LINE & SURFACE INTEGRALS, VOLUMES, CENTROIDS OF VOLUME, AND MOMENTS OF INERTIA FOR THIN-WALLED SHELLS OF REVOLUTION
NASA-CR-89 N64-30084 21-20

INFLUENCE OF CENTRIFUGAL MOMENTS OF INERTIA OF INNER SUSPENSION GIMBAL ON GYROSCOPIC STABILITY N64-30366 22-15

PREDICTION OF GEMINI LAUNCH VEHICLE TRANSONIC BUFFET LOADING MOMENTS BY WIND TUNNEL TESTS
LV-280 N64-31836 23-33

SOURCE OF POLARIZED ELECTRONS FOR HIGH ENERGY ACCELERATOR AND PRECISION MEASUREMENT OF THE TRIATOMIC HELIUM NUCLEAR MAGNETIC MOMENT N64-32248 23-23

EFFECTIVE ELECTRIC POLARIZABILITIES OF METASTABLE ARGON IN SELECTED MAGNETIC SUBSTATES
AD-424089 N64-33840 24-23

MOMENT EQUATION
DEFLECTION, SLOPE, AND MOMENT EQUATIONS FOR CIRCULAR PLATES UNDER UNIFORM LOAD ON CONCENTRIC CIRCLE
ANL-6905 N64-33008 24-33

MOMENT METHOD
INTEGRAL-MOMENT METHOD OF SOLVING BOLTZMANN KINETIC EQUATION
FTD-TT-63-1033/1&2 N64-21966 15-11

LINEARIZED THEORY OF TWO-DIMENSIONAL RADIATING GAS FLOW BY MOMENT METHOD
SUDAER-188 N64-25728 17-11

MOMENT METHOD FOR SOLUTION OF SCHWARZSCHILD-MILNE INTEGRAL EQUATION
NASA-CR-60001 N64-27911 20-20

MOMENTUM
MOMENTUM CONTROL OF ORBITING ASTRONOMICAL OBSERVATORY USING GEOMAGNETIC FIELD
IAC PAPER-32 N64-11892 03-22

ANALYSIS OF WAVE FUNCTION FORMULA FOR IMPENETRABLE POINT PARTICLES FOLLOWING BOSE-EINSTEIN STATISTICS FOR MOMENTUM DISTRIBUTION IN INFINITE SYSTEM
MATT-223 N64-13225 04-23

CANONICAL TRANSFORMATIONS IN ANGULAR-MOMENTUM REPRESENTATION OF LOW ENERGY SPHERICAL NUCLEI - QUASI-PARTICLE INTERACTIONS
UCRL-11080 N64-14164 05-23

HYDRODYNAMICS OF STELLAR CORONAS AND WINDS - INTEGRATION OF MOMENTUM EQUATION
N64-16773 08-28

AERODYNAMIC FORCE AND KINETIC ENERGY OF PARTICLES IMPINGING ON BODY IN SUPERSONIC FLIGHT
FTD-TT-63-361/1&2&4 N64-19217 11-11

MOMENTUM AND ROTATION SPEED OF ELECTRIC MOTORS
N64-23575 16-09

EXPONENTIAL DAMPING OF LARGE TRANSVERSE MOMENTA OF PARTICLES PRODUCED IN HIGH ENERGY COLLISION
TH-58 N64-27219 19-23

MOMENTUM BIAS ATTITUDE CONTROL FOR SYNCHRONOUS COMMUNICATIONS /SYNCOM/ SATELLITE
TOR-269/4540-70/-1 N64-28670 20-32

MOMENTUM ENERGY
MATERIAL MOMENTUM-ENERGY TENSORS AND CALCULUS OF VARIATIONS
RM-3993-PR N64-21916 15-20

COMMUTATION RELATIONS FOR ENERGY-MOMENTUM TENSOR
ARL-64-165 N64-30952 22-23

MOMENTUM TRANSFER
MOMENTUM AND ENERGY TRANSFER MECHANISMS, THRUST EFFICIENCY, ANNULAR GEOMETRY, AND CYLINDRICAL FORM IN HALL CURRENT ACCELERATOR
NASA CR-52448 N64-10342 01-23

MOMENTUM EXCHANGE-TYPE ATTITUDE CONTROL SYSTEM FOR SPACECRAFT ON EXTENDED MISSION
NASA-CR-53556 N64-18302 10-30

MOMENTUM TRANSFER COLLISION FREQUENCIES OF ELECTRONS WITH NEON IONS AND NEUTRAL ATOMS IN DECAYING NEON PLASMA
R-201 N64-24645 17-24

ORIGIN OF SOLAR NEBULA - PROBLEM OF SOLAR MOMENTUM AND HYDROMAGNETIC MOMENTUM TRANSFER
N64-24762 17-05

INTERACTIONS OF TRANSVERSELY IMPINGING UNDEREXPANDED JET FLOWS FOR SUPERSONIC MOMENTUM EXCHANGE FLUID AMPLIFIERS N64-25256 17-11

MOMENTUM TRANSFER AND INELASTIC COLLISION CROSS SECTIONS FOR ELECTRONS IN NITROGEN USING TRANSPORT COEFFICIENTS
TDS-64-928-113-P4 N64-25502 17-23

MOMENTUM TRANSFER AND CRATERING EFFECTS PRODUCED BY GIANT LASER PULSES
NASA-RP-267 N64-26081 18-25

MOBILITY OF POSITIVE IONS IN THEIR OWN GAS - DETERMINATION OF AVERAGE MOMENTUM TRANSFER CROSS-SECTION
NASA-TN-D-2408 N64-26776 18-11

INTERACTION OF ATOMS WITH SURFACE OF SOLID - ENERGY AND MOMENTUM EXCHANGE IN PARTICLE COLLISION
N64-27981 20-11

CONSTRUCTION AND OPERATION OF INSTRUMENT TO MEASURE MOMENTUM TRANSFER TO TARGET SURFACE BY INCIDENT MOLECULAR BEAM - ELECTRIC MICROBALANCE
N64-28289 20-15

PROBABILITY OF COLLISION FOR MOMENTUM TRANSFER OF SLOW ELECTRONS IN NITROGEN PLASMA AFTERGLOW
NASA-CR-104 N64-31202 22-24

DETERMINATION OF ENERGY OF PULSED LASER BEAM BY TRANSFER OF PHOTON MOMENTUM TO BALLISTIC PENDULUM
NOLTR-63-82 N64-31247 22-25

ELECTROSTATIC ACCELERATION OF LOW DENSITY PLASMA BY MOMENTUM TRANSFER THROUGH MAGNETIC FIELDS
N64-31608 23-27

MOMENTUM TRANSFER THROUGH ELECTRIC FIELDS - ION ENGINE APPLICATION N64-31609 23-27

ROLE OF INELASTIC COLLISIONS IN KINEMATICS OF ELASTIC SCATTERING WITH LARGE MOMENTUM TRANSFER
CERN-64-38 N64-31628 23-23

ENERGY AND MOMENTUM EXCHANGE BETWEEN COMPONENTS OF NON-EQUIPARTITION GAS MIXTURE
ARAP-45 N64-32388 23-11

TURBULENT WAKES IN DENSITY STRATIFIED FLUIDS - MASS AND MOMENTUM TRANSFER IN TWO-DIMENSIONAL WAKES
R64-26 N64-33475 24-11

MONGE-AMPERE EQUATION
S PARABOLIC EQUATION

MONITOR
BIBLIOGRAPHY OF LITERATURE OF DETECTION INSTRUMENTS USED TO MONITOR TOXIC GAS CONCENTRATION IN ATMOSPHERE
SID-63-755 N64-10137 01-16

TEMPERATURE CONTROL OF MARINER II SPACECRAFT WITH DATA FOR MONITORED COMPONENTS
NASA-CR-52463 N64-10338 01-32

AUTOMATIC CONTROL OF NONSTATIONARY PARAMETERS AND PARAMETRIC FIELDS - MONITOR
JPRS-17695 N64-10630 01-06

INTEGRATING MULTIPOINT REMOTE AREA SAFETY MONITOR FOR X-RAY AND GAMMA RADIATION SOURCES ABOVE 50-KEV
MATT-193 N64-11278 02-15

ALPHA MONITORING SYSTEM WITH SOLID STATE SIGNAL DETECTOR
EUR-429.E N64-13143 04-23

WATERS CUVETTE MONITORING OF HUMAN ARTERIAL OXYGEN CONSUMPTION DURING TRANSVERSE ACCELERATION
NADC-MA-6323 N64-13831 05-16

PERFORMANCE CHARACTERISTICS OF ELECTRODES, SIGNAL MODIFIERS, AND GRAPHIC RECORDING COMPONENTS IN PHYSIOLOGICAL MONITORING SYSTEM
AMRL-TDR-62-98/2/ N64-13872 05-14

HUMAN ENGINEERING IN MONITORING AND CHECKOUT EQUIPMENT
WDL-TR-1968 N64-13972 05-14

MONITORING ENVIRONMENTAL RADIOACTIVITY IN VICINITY OF BROOKHAVEN NATIONAL LABORATORY
BNL-807/T-310/ N64-14395 06-16

LATENT IMAGE FADING IN RADIATION MONITORING FILMS DURING STORAGE BEFORE DEVELOPMENT
AECL-1872 N64-14731 06-16

TECHNIQUES FOR CONTINUOUS MONITORING OF SPECTRUM RADIATED BY PULSE RADAR
RADC-TDR-63-406 N64-14980 06-08

ATMOSPHERICS - INFRARED STUDIES, STORM MONITORING, AND NUCLEI CONDENSATION
AROD-45691 N64-15358 07-12

SELECTIVE MONITORING TECHNIQUES TO EXTRACT SIGNIFICANT INFORMATION FROM DATA TYPICAL OF THAT ORIGINATING IN MANNED SPACECRAFT
N64-16183 08-08

FAR-FIELD ACOUSTICS MONITORING OF TITAN INTERCONTINENTAL BALLISTIC MISSILE LAUNCHES
NASA-TM-X-54632 N64-16718 08-23

MULTICHANNEL SUPERHETERODYNE RECEIVER SYSTEM FOR SEARCH AND MONITOR OF AMPLITUDE AND FREQUENCY MODULATION SIGNALS
EDL-G200 N64-17287 09-08

INTERCALIBRATION OF NETWORK SYSTEMS EMPLOYED IN MONITORING FISSION PRODUCT RADIOACTIVITY IN ATMOSPHERE
NRL-6025 N64-17374 09-21

HUMAN PERFORMANCE AS MONITOR AND CONTROLLER OF MULTIDEGREE-OF-FREEDOM SYSTEMS N64-18796 11-14

AUTOMATIC MONITOR FOR FLAME EMISSION DETECTION OF PENTABORANE IN AIR
RTD-TDR-63-1072 N64-19107 11-15

CAPTURE EFFECT GLIDE SLOPE MONITOR TECHNIQUES FOR GUIDING AIRCRAFT TO RUNWAY
RD-64-17 N64-19167 11-10

ADJUSTING-MONITORING TECHNIQUES FOR MERCURY-WETTED CONTACT RELAYS N64-19520 12-09

MASS SPECTROMETER MONITORING SYSTEM FOR DOPANTS IN GAS STREAM DURING EPITAXIAL DEPOSITION OF SILICON
AFCRL-64-178 N64-20163 13-06

MONITORING INSTRUMENTATION FOR PHYSIOLOGICAL RESPONSE OF EXPERIMENTAL ANIMALS IN BALLOON FLIGHTS
NASA-CR-53652 N64-20598 13-14

INSTRUMENTATION AND CONTROL SYSTEMS FOR RADIATION DETECTION, MONITORING, REACTOR CONTROL, DATA HANDLING, COMPUTATION, AND ACCELERATOR PROGRAMS
ORNL-3578 N64-21112 14-15

RADIATION MONITORING DURING FLIGHT OF VOSTOK III AND VOSTOK IV SPACECRAFT N64-21641 15-28

SOLAR RADIATION MONITORING AND INFRARED SPECTROSCOPIC STUDY N64-21817 15-01

MONITORING OF SOLAR X-RAY AND ULTRAVIOLET RADIATION BY SOLAR OBSERVATORY SATELLITE
N64-21818 15-32

THICKNESS MONITORING DEVICE FOR THIN FILMS OBTAINED BY VACUUM SPRAYING
FTD-TT-62-1863/1&2&4 N64-21967 15-15

ELECTROMAGNETIC MONITORING SYSTEM FOR RECORDING ELECTROMAGNETIC SIGNALS RESULTING FROM DETONATIONS
EG&G-B-2703 N64-22528 15-08

BIOINSTRUMENTATION FOR MONITORING STUDY IN HUMAN PHYSIOLOGY IN CLOSED ECOLOGICAL SYSTEMS
N64-24622 17-15

ATMOSPHERIC MONITORING OF CONTAMINANTS IN SPACE CABIN SIMULATOR N64-24624 17-15

DETECTION SYSTEM FOR MONITORING AIR FOR TOXIC COMPOUNDS IN CLOSED ECOLOGICAL SYSTEM
N64-24625 17-15

METEOROLOGICAL MONITORING OF RADIOACTIVE BETA-GAMMA RADIATION
LAMS-3071 N64-24946 17-23

TRAINING PLAN FOR PERSONNEL TO MONITOR FLIGHT CONTROL SYSTEM FOR DETECTING SLOW MALFUNCTION PROBLEMS N64-25355 17-16

RADIOLOGICAL PREDICTION & MONITORING SYSTEMS
AD-412431 N64-25638 17-15

WIDEBAND ELECTROMAGNETIC MONITORING SYSTEM AND FUNCTIONING DURING FISHBOWL OPERATION
EG&G-B-2668 N64-26282 18-08

DESIGN AND CONSTRUCTION OF ANALOG COMPUTER FOR MONITORING MASS FLOWRATE OF ARGON THROUGH PIPING SYSTEM
NAA-SR-9745 N64-29450 21-20

EFFECTS OF VISUAL DISPLAY MODE AND MONITORING ON PERFORMANCE IN COMPLEX VIGILANCE TASK
SAM-TDR-64-34 N64-29794 21-14

REMOTE MONITOR FOR HELMET POSITION
N64-29884 21-22

MEDICAL SAFETY MEASURES DURING MANNED CENTRIFUGE EXPERIMENTS
NADC-ML-6410 N64-30169 21-16

NEUTRON FLUX MONITORS AND THERMOCOUPLES FOR IN-CORE REACTOR MEASUREMENTS
AECL-2033 N64-30641 22-15

MONITORING ELECTROCARDIOGRAMS ON ACTIVELY EXERCISING SUBJECTS
SAM-TDR-64-38 N64-31050 22-16

GRAPHITE SAMPLE SPECIFICATIONS FOR NUCLEAR REACTOR GRAPHITE BURNOUT MONITOR
HW-82436 N64-31269 22-19

SLOW MALFUNCTION MONITORING OF GEMINI LAUNCH VEHICLE
LV-307 N64-31838 23-10

MONITORING SYSTEM FOR RADIOACTIVE FISSION PRODUCT GASES FROM DISSOLUTION OF IRRADIATED URANIUM IN RADIOCHEMICAL SEPARATIONS PROCESS
DP-908 N64-32794 24-15

METHODS FOR MONITORING AND MEASURING X-RADIATION
SETE-228/4 N64-33248 24-23

MONKEY
SA CHIMPANZEE
TRANSFER OF STRONTIUM 90 THROUGH MILK IN LACTATING MONKEYS AND RATS
UR-635 N64-10616 01-16

CONDITIONS OF COMPLETE INHIBITION OF ANTIBODY PRODUCTION IN MONKEYS AFTER GAMMA IRRADIATION IN LARGE DOSES
JPRS-22121 N64-11274 02-16

RESTRAINT APPARATUS FOR THORACIC ROENTGENOGRAPHIC EXAMINATION OF UNANESTHETIZED PRIMATES
SAM-TDR-63-93 N64-12865 04-16

CHRONIC IRRADIATION EFFECTS ON LONGEVITY AND PERIPHERAL BLOOD ELEMENTS OF MONKEYS
SAM-TDR-63-55 N64-13078 04-16

CENTRAL NERVOUS SYSTEM CHANGES OF RHESUS MONKEYS DUE TO ASPHYXIA DURING BIRTH N64-14600 06-16

HISTOCHEMICAL DETERMINATION OF OXIDATIVE AND HYDROLYTIC ENZYMES ON RAT BRAIN TISSUE AND AMINO ACID CONSUMPTION IN MONKEYS AFTER HYPOXEMIA
N64-14606 06-16

HISTOLOGICAL STUDIES ON INNER EARS OF SQUIRREL MONKEYS
NASA-CR-55517 N64-16328 08-16

TEMPERATURE REACTION TO GAMMA RADIATION IN MONKEYS
N64-20945 14-16

STRUCTURAL CHANGES IN VISUAL ANALYZER OF MONKEYS AFTER EXTIRPATION OF CERVICAL LOBES
JPRS-24800 N64-21043 14-16

VARIOUS STUDIES OF BRAIN REACTIONS IN MONKEYS
NASA-CR-58038 N64-27284 19-16

INFLUENCE OF STRONG MAGNETIC FIELDS ON BIOLOGICAL PROCESSES IN MONKEYS
NASA-CR-56886 N64-27890 20-16

PATHOLOGY AND TOXICOLOGY OF REPEATED DOSES OF HYDRAZINE AND DIMETHYLHYDRAZINE IN MONKEYS AND

RATS
AMRL-TDR-64-48 N64-29938 21-16

RADIATION PROTECTION FOR MONKEY WITH L-CYSTEINE AND AMINOETRYLISOTHIURONIUM DIBROMIDE
SAM-TDR-64-40 N64-32031 23-16

ELECTRICAL ACTIVITY OF CORTEX AND DEEP BRAIN STRUCTURES OF MACAQUE MONKEY DURING SLEEP USING BIPOLAR SURFACE & IMPLANTED ELECTROENCEPHALOGRAPH ELECTRODES
NASA-CR-59001 N64-33041 24-16

MONOCHROMATIC RADIATION
MUTUAL COHERENCE OF PLANE QUASI-MONOCHROMATIC SOURCE IN INHOMOGENEOUS MEDIUM N64-13430 05-23

OPTICS - ARRAY THEOREM STUDY BY MUTUAL COHERENCE USING MONOCHROMATIC RADIATION
AFCRL-64-19 N64-18942 11-09

PHOTOELASTIC MEASUREMENTS WITH MONOCHROMATIC PHOTOGRAPHY
RSIC-233 N64-29307 21-33

MONOCHROMATOR
SLIT FUNCTION OF SMALL PRISM MONOCHROMATOR
GDA-DBE64-013 N64-20134 13-15

COLLIMATION SYSTEM, DETECTOR, AND MONOCHROMATOR FOR SMALL ANGLE X-RAY SCATTERING EXPERIMENTS
TR-3 N64-29683 21-23

SPECTRAL SLIT WIDTH OF SMALL PRISM MONOCHROMATOR FOR IMAGE INTENSITY DISTRIBUTIONS
GDA-DBE-64-054 N64-32679 23-15

MONOETHANOLAMINE /MEA/
LIQUID MONOETHANOLAMINE INJECTION AND CODLANT INTERRUPTION TECHNIQUES FOR CONTROLLING HEAT EXCHANGER CONTAMINATION
REPT.-6058 N64-27920 20-06

MONOMER
PREPARATION OF VINYL, STYRENE, BUTADIENE, ACRYLATE, AND POLYESTER FLUORINE MONOMERS
JPRS-22383 N64-11983 03-07

PRODUCTION OF FLUORINATED BIFUNCTIONAL ORGANIC COMPOUNDS FOR USE AS MONOMERS FOR FLUORINATED POLYCONDENSATION POLYMERS
RSIC-165 N64-20462 13-07

ELASTOMER DEVELOPMENT - PREPARATION OF MONOMERIC MATERIALS AND POLYMERIZATION PROCEDURES
PCR-349 N64-28285 20-07

MONOPOLE ANTENNA SYSTEM
BACKSCATTERING FROM LINEAR SCATTERER GROUNDED IN A CAVITY
AFCRL-63-355 N64-12194 03-23

IMPEDANCE OF VERTICAL MONOPOLE ANTENNA OVER RADIAL GROUND WIRE ON IMPERFECTLY CONDUCTING EARTH
REPT.-8900-11-89422 N64-14683 06-09

ELECTRIC CONDUCTIVITIES IN ROCK MEDIA DEDUCED FROM QUARTER-WAVE RESONANT FREQUENCIES OF INSULATED MONOPOLE ANTENNA SYSTEMS
AFCRL-64-99 N64-29245 21-12

LOG PERIODIC MONOPOLE ANTENNA - COMPUTER ANALYSIS AND RADIATION PATTERN
NASA-CR-58628 N64-29701 21-08

CAVITY-MOUNTED LOG-PERIODIC MONOPOLE ANTENNA ANALYZED BY COMPUTER N64-29702 21-08

RADIATION PATTERNS OF LOG PERIODIC MONOPOLE ANTENNAS N64-29703 21-08

MONOPULSE ANTENNA
CORRECTIVE & PREVENTIVE MAINTENANCE PROCEDURES FOR MILLSTONE L-BAND MONOPULSE RADAR ANTENNA
ESD-TDR-63-585 N64-29620 21-08

MONOPULSE RADAR
COMPARISON OF CONICAL SCAN, AMPLITUDE MONOPULSE, & PHASE MONOPULSE TRACKING SYSTEMS
EDL-M541 N64-17644 09-08

BORESIGHT ERROR IN VARIOUS MONOPULSE TRACKING RADAR SYSTEMS
GE/EE/63-18 N64-31152 22-09

MONOXIDE
S CARBON MONOXIDE

MONTE CARLO METHOD
DISPERSION AND ERROR IN GUIDANCE EFFECT ON RANGER LUNAR LANDING - MONTE CARLO METHOD ANALYSIS
NASA-CR-52540 N64-10336 01-32

MONTE CARLO METHODS FOR MATHEMATICAL AIR AND SPACE TRAVEL PROBLEMS
WGLR-6/1963 N64-11863 03-18

MONTE CARLO METHODS FOR RANDOM PROCESSES AND DIFFERENTIAL EQUATION SOLUTIONS
N64-11864 03-20

FUNDAMENTALS OF MONTE CARLO METHODS IN RANDOM-NUMBER-GENERATION, DISTRIBUTION, AND SAMPLING IN PROBLEMS N64-11865 03-20

MONTE CARLO METHODS FOR SIMULATION OF STOCHASTIC PROCESS CONTROLLED MAN-MACHINE SYSTEM - MILITARY AIRCRAFT LOGISTICS N64-11867 03-20

TWO-DIMENSIONAL TRIANGULAR LATTICE GAS - MONTE CARLO CALCULATIONS IN SUPERCRITICAL REGION
N64-12168 03-23

HIGH ENERGY ELECTRON-PHOTON CASCADE SHOWER CALCULATIONS BY IBM 7090 - MONTE CARLO METHOD
N64-12532 04-23

EFFICIENCY & RESOLUTION OF PROTON RECOIL SPECTROMETER - CALCULATION BY MONTE CARLO METHOD
N64-12555 04-23

MONTE CARLO PROGRAM FOR CALCULATING NEUTRON TRANSPORT IN CYLINDRICALLY SYMMETRIC NERVA CONFIGURATIONS
NASA-CR-55244 N64-13494 05-20

THERMAL NEUTRON FLUX DISTRIBUTIONS IN CONCRETE-WALLED DUCTS CALCULATED FROM ALBEDO MODEL USING MONTE CARLO TECHNIQUE
ORNL-3507 N64-14246 06-23

MONTE CARLO PROGRAM FOR ESTIMATING EPITHERMAL CAPTURE RATES IN SLABS
WAPD-TM-407 N64-15178 07-23

MONTE CARLO SIMULATION OF MULTIPLE REENTRY VEHICLE DELIVERY N64-15257 07-30

YOGI-N - MONTE CARLO COMPUTER PROGRAM WRITTEN IN FORTRAN II FOR CALCULATION OF NEUTRON ABSORPTION IN RECTANGULAR & CYLINDRICAL SYSTEMS
UCRL-7630 N64-15827 07-20

MONTE CARLO CALCULATIONS OF TRANSPORT OF 14 MEV NEUTRONS IN ATMOSPHERE
RM-3531-PR N64-16083 07-23

MONTE CARLO METHOD OF INVESTIGATING EARLY STAGES OF IONIZATION OF NEUTRAL HELIUM PRODUCED BY LARGE AMPLITUDE MAGNETIC PUMPING IN STELLARATOR
MATT-211 N64-16562 08-24

MONTE CARLO ANALYSIS ON IBM 7090 AND 7094 COMPUTER USING AUTOMATED STATISTICAL ANALYSIS PROGRAM
NASA-CR-55835 N64-16735 08-20

MONTE CARLO ANALYSIS OF NEUTRON SCATTERING FROM SMALL VOLUME OF CARBON, BERYLLIUM, ALUMINUM, IRON, AND POLYETHYLENE
NAA-SR-9418 N64-17290 09-23

MONTE CARLO CODE FOR NUCLEAR COLLISION DENSITY OF PRIMARY GALACTIC PROTONS IN ALUMINUM SLAB
NASA-TN-D-2122 N64-17295 09-23

MONTE CARLO APPLICATION FOR DEVELOPING SPACE VEHICLE COMPONENT DESIGN RELIABILITY GOAL FOR USE WITH VERY SMALL SAMPLE SIZES

NASA-TM-X-51481 N64-17670 09-17

MONTE CARLO METHOD APPLIED TO HYDROGEN DIFFUSION IN THERMOSPHERE
NASA-RP-159 N64-19149 11-12

MONTE CARLO CODE FOR EVALUATION OF SPACE RADIATION PENETRATION HAZARDS
D2-90414 N64-19482 12-23

MONTE CARLO COMPUTATION OF STATISTICS OF MIDCOURSE VELOCITY CORRECTIONS FOR LUNAR MISSION
NASA-TN-D-2296 N64-20191 13-29

HYTHEST - IBM 7090 COMPUTER PROGRAM USING MONTE CARLO METHOD FOR EVALUATING CORRECTION FACTORS FOR NUCLEAR REACTOR CORES
EURAEC-987 N64-21193 14-23

DIGITAL COMPUTER PROGRAM USING MONTE CARLO METHOD FOR COMPUTING MULTIPLE SCATTERED RADIO FIELDS IN TROPOSPHERE
CRL-272-4 N64-21710 15-08

EXAMPLES OF STOCHASTIC DISTORTION - MONTE CARLO TECHNIQUE
SP-1584 N64-22123 15-20

CALCULATION OF GAMMA RAY PENETRATION THROUGH SLAB SHIELDS BY MONTE CARLO METHOD
NRL-5981 N64-22546 15-23

COMPUTER PROGRAM FOR MONTE CARLO ERROR ANALYSIS OF SCANNING CAMERA NAVIGATION CONCEPT
NASA-CR-56455 N64-24044 16-22

MONTE CARLO SOLUTION FOR HIGHLY RAREFIED IONIZED GAS FLOWING THROUGH CHANNEL WITH TRANSVERSE MAGNETIC FIELD
NASA-TM-X-52033 N64-24105 16-24

IBM 7090 COMPUTER CODE USING MONTE CARLO METHOD /FANTASIA II AND TRIPROD II/ FOR NEUTRON TRANSMISSION THROUGH LAMINATED SLABS
ML-TDR-64-52 N64-24387 17-23

COMPUTER PROGRAM USING MONTE CARLO METHOD TO CALCULATE PRIMARY AND SECONDARY GAMMA RADIATION TRANSMISSION INFORMATION
REPT.-1223 N64-24879 17-20

MONTE CARLO COMPUTATION OF 1-MEV GAMMA RAY SCATTERING BY CONCRETE SLABS
TO-B-64-31 N64-25815 17-23

MONTE CARLO CODE FOR DESCRIBING TIME-DEPENDENT PHOTON TRANSPORT IN RESISTORS & CAPACITORS UNDER TRANSIENT GAMMA RADIATION EFFECT
AFWL-TDR-64-37 N64-26208 18-23

MATHEMATICAL SIMULATION OF OPERATION OF SECTION MILL USING MONTE CARLO METHOD AND DIGITAL COMPUTER
N64-26378 18-17

SIMULATING MINERAL DEPOSITS USING MONTE CARLO TECHNIQUES AND MATHEMATICAL MODELS
BM-RI-6493 N64-26464 18-12

MONTE CARLO METHODS FOR CALCULATING DEEP PENETRATION OF NEUTRONS IN SHIELDS
N64-28640 20-20

MONTE CARLO METHOD FOR ANALYSIS OF GAMMA RADIATION TRANSPORT FROM DISTRIBUTED SOURCES IN SHIELDING OF LAMINATED MATERIAL
FOA-4-A-4354-411 N64-28689 20-20

LYMAN ALPHA RESONANT SCATTERING IN UNIFORM HYDROGEN GAS USING STOKES VECTORS AS RANDOM VARIABLES IN MONTE CARLO TYPE CALCULATION
NASA-TM-X-55062 N64-28742 20-23

NUCLEON TRANSPORT CODE WRITTEN FOR IBM 7090 COMPUTER - CALCULATION OF AVALANCHE BEHAVIOR IN HIGH ENERGY INTERACTIONS OF NUCLEONS USING MONTE CARLO METHOD
ORNL-3610 N64-28786 20-23

MONTE CARLO STUDY OF SECONDARY NEUTRONS PRODUCED IN PROTON SHIELDING - ALUMINUM, POLYETHYLENE, CARBON, AND IRON SLABS
NASA-CR-58493 N64-28934 20-23

TRANSFORMATION OF TRANSPORT EQUATION FOR SOLVING DEEP PENETRATION PROBLEMS BY MONTE CARLO METHOD
N64-28977 20-20

MONTE CARLO PROGRAM FOR EVALUATING RADIATION HAZARDS OF ELECTRONS IN SPACE
NASA-CR-58296 N64-29367 21-20

PROGRAMMING OF LARGE STOCHASTIC SIMULATION MODEL FOR MONTE CARLO ANALYSIS ON DIGITAL COMPUTER - STATISTICAL SAMPLING DESIGN
SP-1697/000/00 N64-30233 22-20

BIBLIOGRAPHY ON MONTE CARLO METHODS
UCRL-7823 N64-30650 22-20

MONTE CARLO SOLUTION OF RADIANT ENERGY TRANSFER AND TEMPERATURE IN NONGREY NONISOTHERMAL GAS BETWEEN PARALLEL BLACK WALLS
NASA-RP-317 N64-31208 22-13

COMPUTER PROGRAM USING MONTE CARLO METHOD FOR REFLECTION AND TRANSMISSION OF GAMMA RAYS AND NEUTRONS IN HOMOGENEOUS AND HETEROGENEOUS SLABS
TO-B-63-73 N64-31251 22-23

MONTE CARLO METHOD PENETRATION STUDY OF NEUTRON SCATTERING IN SHIELDING DUCTS
NARF-63-3T N64-31301 22-23

MONTE CARLO COMPUTER PROGRAM FOR ESTIMATING EPITHERMAL NEUTRON CAPTURE RATES IN RECTANGULAR AND 60-DEGREE PARALLELOGRAM GEOMETRY
WAPD-TM-437 N64-32468 23-20

MONTE CARLO COMPUTER SOLUTIONS OF KNUDSEN AND NEAR-KNUDSEN FLOW THROUGH WIDE, PARALLEL, AND SKEWED FLAT PLATES
NASA-TN-X-53112 N64-32644 23-11

HIGHLY RAREFIED IONIZED GAS FLOW THROUGH CHANNELS WITH TRANSVERSE MAGNETIC FIELDS - MONTE CARLO SOLUTION
NASA-TN-D-2211 N64-32839 24-11

COMPUTER PROGRAM FOR DETERMINATION OF HEATING OF PERIPHERAL COMPONENTS OF TORY II-C REACTOR BY GAMMA RADIATION - MONTE CARLO METHOD
UCRL-12005 N64-33239 24-23

MONTMORILLONITE
S CLAY

MOON
SA EARTH MOON SYSTEM
SA LUNAR ATMOSPHERE
SA LUNAR BASE
SA LUNAR CRATER
SA LUNAR CRUST
SA LUNAR DISK
SA LUNAR DUST
SA LUNAR ECHO
SA LUNAR ECLIPSE
SA LUNAR ENVIRONMENT
SA LUNAR FAR SIDE
SA LUNAR FLIGHT
SA LUNAR GEOLOGY
SA LUNAR GRAVITATIONAL EFFECT
SA LUNAR LANDING
SA LUNAR LAUNCH
SA LUNAR LOGISTICS
SA LUNAR LUMINESCENCE
SA LUNAR MAP
SA LUNAR MARE
SA LUNAR OBSERVATORY
SA LUNAR ORBIT
SA LUNAR PERTURBATION
SA LUNAR PHASE
SA LUNAR PHOTOGRAPH
SA LUNAR PHOTOGRAPHY
SA LUNAR SEISMOGRAPH
SA LUNAR SURFACE
SA LUNAR TEMPERATURE DETERMINATION
SA LUNAR TIDE
SA LUNAR TOPOGRAPHY

SA LUNAR TRACKING
LUNATRON CONCEPT - UTILIZATION OF MOON IN SPACE TRANSPORTATION N64-10045 01-32

PHOTOGRAPHIC STUDY OF VENUS, MARS, JUPITER, SATURN, MOON, ASTEROID 1580, & OTHER OBJECTS
NASA-CR-52850 N64-11294 02-05

EQUATIONS FOR METEORITES THAT COLLIDE WITH EARTH AND MOON N64-11392 02-05

DETERMINATION OF LUNAR SHAPE BY PHOTOGRAPHS OF ANNULAR ECLIPSES N64-13706 05-05

PLANETARY AND LUNAR RESEARCH IN THE PHOTOGRAPHIC INFRARED, VISIBLE, AND ULTRAVIOLET SPECTRA
SAR-5 N64-14359 06-05

INTERNAL STRUCTURES OF MOON AND INNER PLANETS N64-15183 07-29

CENTER OF MASS OF MOON PRECISELY DETERMINED FROM PHOTOGRAPHIC OBSERVATIONS
MH-TRANS-401 N64-15196 07-05

CHARACTERISTICS, PROPERTIES, AND ORIGIN OF TEKTITES IN RELATION TO MOON N64-15284 07-05

RADIOASTRONOMICAL OBSERVATIONS OF MOON AND PLANETS N64-15289 07-05

MAGNETIC TAPE SYSTEM FOR EPHEMERIDES OF MOON AND PLANETS
NASA-CR-53218 N64-17223 09-05

INTERNAL STRUCTURE AND STRENGTH OF MOON, MARS, VENUS, AND MERCURY
NASA-TR-R-173 N64-17518 09-05

HALPHEN METHOD USED TO DETERMINE LONG RANGE EFFECTS OF SUN AND MOON ON SATELLITE ORBITS
NASA-TR-R-176 N64-17826 09-05

STUDY OF MARS & MOON - METEOROLOGY & ASTROPHYSICS N64-19355 12-29

MOON PRESSURE AND DENSITY DISTRIBUTION N64-19358 12-29

ADVANCES AND PROBLEMS OF COSMOGONY - FORMATION AND INTERNAL STRUCTURE OF STARS, ATMOSPHERE OF MOON, AND PROCESSES IN EARTH N64-21127 14-05

GEOGRAPHIC-GEOPHYSICAL METHODS OF STUDYING ORIGIN AND STRUCTURE OF MOON N64-22035 15-29

PHOTOGRAPHIC STUDY OF MOON STRUCTURAL ELEMENTS - LUNAR CRUST N64-22036 15-29

GAS CHROMATOGRAPHIC DETECTION OF ORGANIC COMPOUNDS ON MOON AND MARS
NASA-CR-50183 N64-22753 16-15

TERRESTRIAL MICROORGANISMS IN SIMULATED PLANETARY ENVIRONMENT - MARS AND MOON
NASA-CR-56529 N64-22790 16-16

EXPERIMENTAL DATA ON EARTH, MOON, AND INTERPLANETARY MAGNETIC FIELDS
NASA-TT-F-8562 N64-22930 16-28

INTERIOR OF MOON
NASA-CR-56510 N64-23526 16-29

DATA TRANSMISSION FROM MOON TO EARTH - SPACE TELEMETRY N64-23643 16-29

CELESTIAL MECHANICS OF MOON AND PROBLEMS OF EARTH MOON TRAJECTORY N64-23644 16-29

MEASUREMENT OF RADIO EMISSION FROM MOON AT 50-CM WAVELENGTH N64-23784 16-05

EPHEMERIS MAGNETIC TAPES INCLUDING LOCATIONS, SPEEDS, & NUTATIONS OF MOON & PLANETS
NASA-CR-56285 N64-23950 16-29

FLIGHTS TO MOON & PLANETS N64-24495 17-27

PHYSICAL CONDITIONS ON MOON & PLANETS N64-24653 17-05

MOONLIGHT AND NIGHT VISIBILITY - APPLICATION TO MILITARY TACTICS
AD-438001 N64-25364 17-21

FREQUENCY DEPENDENCE OF POLARIZATION OF LIGHT FROM MARS AND MOON
AFCRL-64-442 N64-25760 17-29

CHEMICAL REACTIONS OF NATURAL SILICATES WITH METHANE, METHANE-HYDROGEN MIXTURES, CARBON, AND SILICON CARBIDES - UTILIZATION OF LUNAR RESOURCES
NASA-CR-56885 N64-26356 18-07

EPHEMERIDES OF MOON, PLANETS, AND THEIR SATELLITES FOR YEAR 1965 N64-26551 18-05

PRECISION MEASUREMENTS OF RADIO EMISSION FROM SUN AND MOON IN 4MM WAVELENGTH BAND N64-27153 19-05

LUNAR AND PLANETARY STUDIES
NASA-CR-56888 N64-27303 19-05

EFFECT OF PRECESSION OF NEAR-EARTH ORBITS ON TIMING OF INPLANE LAUNCHING FOR NODAL ENCOUNTER WITH MOON
NASA-TN-D-2442 N64-27977 20-29

PHOTOGRAPHIC AND VISUAL OBSERVATIONS OF MOON AND PLANETS
NASA-CR-58617 N64-28997 20-29

BACKSCATTERED RADAR ECHO FROM MOON USING CONCEPT OF DIFFERENTIAL REFLECTIVITY
NASA-CR-58716 N64-29221 21-05

RADIO EMISSION MEASUREMENTS OF MOON AND JUPITER RELATING TO CASSIOPEIA A
NASA-TT-F-8966 N64-31559 23-05

GEOMAGNETIC FIELD BENEATH EARTH SURFACE AND ESTIMATES OF LUNAR AND PLANETARY FIELDS
P-2978 N64-33012 24-12

SUGGESTIONS FOR OBSERVATIONS OF SUN AND EARTH ECLIPSES FROM MOON
NASA-CR-58778 N64-33180 24-29

LUMINESCENCE OF ROCKS ON MOON DUE TO PETROLEUM BITUMENS
T-380-R N64-33489 24-29

MORPHINE
COLD EXPOSURE EFFECT ON ACTION OF MORPHINE IN RATS AND MICE
AAL-TDR-62-50 N64-23109 16-16

MORPHOLOGY
MORPHOLGICAL CHANGES IN INTERNAL ORGANS AND SKIN FROM LOCAL ULTRASONIC IRRADIATION
JPRS-21776 N64-10207 01-16

BRAIN ACTIVITY ANALYSIS BY INFORMATION SYNTHESIS OBTAINED BY PHYSIOLOGICAL, BIOCHEMICAL, AND STRUCTURAL-MORPHOLOGICAL TECHNIQUES
JPRS-17717 N64-10713 02-16

PATHOLOGICAL AND MORPHOLOGICAL CHANGES OF NERVOUS SYSTEM CAUSED BY VIBRATION N64-10781 02-16

CHANGES IN MORPHOLOGY OF BLOOD IN ATHLETES AFTER UNDERWATER SUBMERSION - RESUSCITATION OF DOGS AFTER DEATH BY ELECTRIC TRAUMA
JPRS-18855 N64-10867 02-16

MORPHOLOGICAL CHANGES IN ANTERIOR LOBE OF PITUITARY GLAND, THYMUS, & ADRENAL GLAND UNDER IRRADIATION AND COOLING
JPRS-20037 N64-11320 02-16

MORPHOLOGICAL & HISTOLOGICAL INVESTIGATION OF VESTIBULAR APPARATUS OF ANIMALS IN CHANGING GRAVITATIONAL FIELD N64-11862 03-16

MORPHOLOGICAL DETAILS OF MOLDAVITES FROM BOHEMIA AND MORAVIA

NASA-TT-F-111 N64-12691 04-12

CHANGES OF MORPHOLOGICAL & FUNCTIONAL PROPERTIES OF BLOOD & HEMODYNAMICS DURING USE OF EXTRACORPORAL CIRCULATION SYSTEMS
JPRS-22914 N64-14133 05-16

SELECTIVE VULNERABILITY OF HIPPOCAMPUS AREA - MORPHOLOGICAL CHANGES N64-14596 06-16

TRACHEA OCCLUSION IN RATS BREATHING OXYGEN AND EFFECT OF BAROMETRIC PRESSURE ON LUNG MORPHOLOGY N64-17954 10-16

EFFECT OF INJECTION OF BONE MARROW CELLS ON MORPHOLOGICAL MANIFESTATIONS OF INFLUENZA IN X-RAY IRRADIATED MICE
JPRS-24056 N64-18096 10-16

MARINE GEOMORPHOLOGICAL RESEARCH USING PRECISION DEPTH RECORDER /LADOGA/
JPRS-24317 N64-18974 11-15

RADAR STUDY OF MORPHOLOGY OF SUBTROPICAL PRECIPITATION
SCI. REPT.-63-35F N64-18999 11-21

RADAR ATTENUATION BY PRECIPITATION AND STUDY OF MORPHOLOGY OF SUBTROPICAL PRECIPITATION BY USE OF DUAL-FREQUENCY WEATHER RADAR SYSTEM
SCI. REPT.-63-30T N64-19013 11-21

DUAL-FREQUENCY WEATHER RADAR SYSTEM FOR STUDYING MORPHOLOGY OF SUBTROPICAL PRECIPITATION N64-19297 11-21

MATERIALS SCIENCE - THERMAL AND MECHANICAL PROPERTIES, MORPHOLOGY, & INFRARED SPECTROSCOPY
NASA-CR-56129 N64-20709 13-19

SOLIDIFICATION OF HIGH STRENGTH STEEL - COOLING EFFECT ON DENDRITE ARM SPACING, MICROSEGREGATION, AND DENDRITE MORPHOLOGY OF IRON-NICKEL ALLOY
AMRA-CR-63-04/1 N64-21354 14-18

DYNAMIC MORPHOLOGY OF AURORA POLARIS N64-22467 15-12

MORPHOLOGY AND CHEMISTRY OF MICROSPHERES FROM PROTEINOID
NASA-TM-X-51514 N64-22772 16-16

VIRUS AND MORPHOLOGICAL STUDY OF INDUCED RADIATION SICKNESS IN MICE
JPRS-25277 N64-24630 17-16

MORPHOLOGY OF ELECTRON DISTRIBUTION IN OUTER RADIATION ZONE & NEAR MAGNETOSPHERIC BOUNDARY N64-25660 17-28

MORPHOLOGY OF LEAD OXIDE IN POSITIVE PLATES OF LEAD-ANTIMONY AND LEAD-CALCIUM STORAGE BATTERIES
NRL-6048 N64-26815 18-07

MORPHOLOGY OF VISIBLE AURORA AND ITS RELATION TO MAGNETIC VARIATIONS AND COSMIC NOISE ABSORPTION
AFCRL-64-570 N64-26911 18-12

MORPHOLOGICAL PROPERTY OF SUNSPOT GROUPS RELATED TO FLARES INVOLVING RADIO EMISSION
NASA-TT-F-8925 N64-26928 18-05

VISUAL AURORAS - MORPHOLOGY, CORRELATION WITH GEOPHYSICAL AND SOLAR ACTIVITY, AND ENERGETIC PARTICLES ASSOCIATED WITH AURORAS
NASA-TM-X-55041 N64-28080 20-12

MORPHOLOGY OF HYDROGEN LINES AND GEOMETRY AND DYNAMICS OF AURORA
AFCRL-64-601 N64-28536 20-12

MORPHOLOGY OF MICROPOROUS PARTICLES AND SINTERING OF COBALT OXIDE POWDERS
REPT.-488 N64-28583 20-18

MORPHOLOGY OF DISCONTINUITIES BENEATH USSR FROM DEEP SEISMOMETRIC SOUNDING
JPRS-26802 N64-31312 22-12

MORPHOLOGICAL CONNECTIONS AND RESPONSES OF VISUAL ANALYZER IN CEREBRAL CORTEX OF DOG N64-31462 23-16

MORPHOLOGY OF AURORAE AND GEOMAGNETISM N64-32717 24-12

NORMAL FECAL BACTERIAL FLORA OF MAN - MORPHOLOGICAL TYPE CULTURES
NASA-CR-59257 N64-33288 24-16

ZOOLOGY CONFERENCE - ENDOCRINE SYSTEMS, ADAPTATION OF MAMMALS, CHEMORECEPTION, NUCLEO-CYTOPLASMIC RELATIONS, FUNCTIONAL MORPHOLOGY, AND EVOLUTION
NASA-CR-59305 N64-33514 24-16

MORPHOTROPISM
S CRYSTAL STRUCTURE

MOSAIC
PHOTOTRANSISTOR MOSAIC DEVELOPMENT AND EQUIPMENT FOR READOUT OF MOSAIC OUTPUT SIGNALS
NASA-CR-53579 N64-18444 10-23

MOSSBAUER EFFECT
VELOCITY MEASUREMENTS WITH MOSSBAUER EFFECT N64-16173 08-23

MOSSBAUER EFFECT IN FERREDOXIN ENRICHED WITH IRON-57
DP-878 N64-16557 08-23

DETERMINATION OF SPEED AND SEPARATION DURING DOCKING OF SPACE VEHICLES - METHODS USING DOPPLER EFFECT, MOSSBAUER EFFECT, & ATOMIC RESONANCE
R63SD314 N64-16913 09-22

ATTEMPT TO OBSERVE MOSSBAUER RESONANCE OF 137 KEV GAMMA RAY OF IRON 57
LAMS-3053 N64-18491 10-23

MOSSBAUER QUADRUPOLE RESONANCE IN IRON 57 SINGLE CRYSTALS
TR-4 N64-28275 20-23

NEUTRON AND CHARGED PARTICLE INDUCED REACTIONS, MOSSBAUER EFFECT INVESTIGATIONS, ATOMIC BEAM STUDIES, AND DECAY OF SHORT-LIVED RADIONUCLIDES
ANL-6879 N64-28726 20-23

MOSSBAUER APPARATUS FOR MAGNETIC STUDIES OF FERRIC OXIDE, FERROUS OXIDE, KRYPTON, AND CLATHRATES
AD-602465 N64-30043 21-25

AUTOMATIC RECORDING CONSTANT VELOCITY MOSSBAUER SPECTROMETER FOR IRON 57
TN-4 N64-30056 21-15

MOLECULAR STRUCTURE STUDIES USING MOSSBAUER EFFECT - IRON COMPLEXES AND COMPOUNDS N64-30743 22-07

APPLICATION OF NUCLEAR RESONANCE SENSING TO MEASUREMENT OF MECHANICAL MOTION
R63SD317 N64-31158 22-23

MOSSBAUER EFFECT OF LOW ENERGY GAMMA RADIATION ON IRON NUCLEUS
JPRS-27049 N64-33140 24-25

MOSSBAUER EFFECT FOR PRECISE MEASUREMENT IN SOLID STATE & ATOMIC PHYSICS, MECHANICS, GEODESY, AND OPTICS
I-A2217-6 N64-33722 24-25

MOTH
S INSECT

MOTION
SA ACCELERATION
SA AUTOKINESIS
SA DAMPING
SA DECELERATION
SA ION MOTION
SA PARTICLE MOTION
SA ROLL
SA VELOCITY
STRUCTURE & FUNCTION OF MOLECULAR LEVEL LIFE, AND CORRELATION BETWEEN FORMS OF MOTION & FORMS OF

MATTER
JPRS-21806 N64-10269 01-16

COMPUTATION PROCEDURE FOR BEHAVIOR OF LAPLACE COEFFICIENTS AND NEWCOMB DERIVATIVES - APPLICATION TO PLANETARY DISTURBING FUNCTION
NASA-CR-52537 N64-10437 01-20

MODES OF MASS EJECTION BY BINARY STARS & EFFECT ON THEIR ORBITAL PERIODS
NASA-RP-77 N64-11114 02-05

THROTTLE CHARACTERISTICS OF AEROSPACE POWERPLANT - ATTAINMENT OF EXTREMUM BY INTRINSIC PARAMETERS OF MOTION - VARIATIONAL CALCULUS N64-11429 02-04

PERTURBATION THEORY FOR PREDICTING STABILITY AND MOTION OF PLANETS IN FUTURE
MH-TRANS-414 N64-11567 03-05

MATHEMATICAL THEORY OF STABILITY OF MOTION OF VARIABLE MASS SYSTEMS
MH-TRANS-428 N64-11573 03-20

ERUPTIVE PROMINENCE MOTIONS - TRAJECTORIES & MAGNETIC FIELDS N64-11636 03-28

MODEL OF EQUATORIAL FLOW - MOTION OF BANDS OF FLUID WITH CONSTANT VORTICITY - SOLAR ACTIVITY EFFECT N64-11726 03-21

UNIFORMITY OF DISTRIBUTION & MOTION OF DISPERSION LAYER IN PARALLEL CHANNELS N64-11980 03-11

GROUP FREQUENCY STANDARD QUARTZ CLOCK VARIATION AND PERTURBATION - RELATION OF EARTH ROTATIONAL IRREGULARITY AND CLOCK AGING
FTD-TT-63-542/1&2 N64-12342 03-12

HIGHEST DEGREE OF STABILITY AND RIGIDITY OF MOTION OF SLIDING HYPERPLANE N64-12467 04-20

ANGULAR DISTRIBUTION OF PHOTOFISSION FRAGMENTS OF THORIUM RELATIVE TO PHOTON BEAM N64-13396 04-23

WALKING RESPONSES UNDER LUNAR AND LOW GRAVITY CONDITIONS
AMRL-TDR-63-112 N64-13873 05-14

ANGULAR ROTATION SENSOR USING SQUARE RING LASER
ASD-TDR-63-694 N64-14316 06-25

INFLUENCE OF ORBITAL MOTION OF EARTH ON DISTANCE AND VELOCITY DETERMINATION OF COSMIC OBJECTS BY RADIO WAVE PROPAGATION
MH-TRANS-456 N64-14717 06-05

ARTIFICIAL SATELLITE ORBIT AND MOTION PREDICTION FROM PROCESSING OF OPTICAL AND RADIOTECHNICAL DATA
MH-TRANS-369 N64-14751 06-29

MOTION OF SOLID BODY NEAR FIXED POINT IN NEWTONIAN FIELD OF FORCES
MH-TRANS-437 N64-14835 06-23

TRANSLATIONAL-ROTATIONAL MOTION OF TWO BODIES WITH ARBITRARY FORMS AND DENSITY DISTRIBUTION
JPRS-23220 N64-14955 06-05

SMALL-BODY MOTION IN VICINITY OF EARTH-MOON SYSTEM STABLE LIBRATION POINTS
NASA-TR-R-160 N64-15163 07-29

NONLINEAR MOTION OF SYMMETRIC BALLISTIC MISSILES N64-15630 07-30

THEORY OF SHIP MOTIONS - FORWARD SPEED AND CROSS-COUPLING IN ABSENCE OF NEGATIVE DAMPING
TRG-126-FR-A N64-15761 07-23

PHASE MOTIONS OF IONS IN ISOCHRONOUS CYCLOTRONS AND PHASE CONTROL BY MODULATION OF GAP VOLTAGE
ORNL-3444 N64-16003 07-23

CONSTRUCTION OF NEWCOMB OPERATORS ON DIGITAL COMPUTERS FOR DEVELOPMENT OF PLANETARY DISTURBING FUNCTION
NASA-CR-55844 N64-16768 08-05

USING LOW THRUST ENGINES TO CONTROL POSITION, PERIOD, AND ECCENTRICITY OF SATELLITE ORBITS
TDR-269/4504-20/-1 N64-16876 08-22

EFFECT OF MOON TRIAXIAL POTENTIAL & ATTRACTION OF EARTH, SUN, AND PLANTETS ON STABILITY OF LUNAR SATELLITES
NASA-CR-55973 N64-17680 09-29

HELICOPTER ROTOR-BLADE DIFFERENTIAL PRESSURES, STRESSES, AND MOTIONS AS MEASURED IN FLIGHT
NASA-TM-X-952 N64-17832 09-03

NUMERICAL CALCULATIONS OF ANGULAR DISTRIBUTION OF THREE-REGION LASER FAR-FIELD RADIATION PATTERN N64-17872 10-23

ANALOG COMPUTER PROGRAM FOR TRANSIENT MOTION SHOCK SPECTRUM N64-18549 11-23

EFFECT OF VARIATIONS IN MOTION FIDELITY DURING LOW ALTITUDE SIMULATED FLIGHT TRAINING
AMRL-TDR-63-108 N64-18595 11-10

HEAVE AND PITCH RESPONSE OF FULLY WETTED SURFACE-PIERCING DIHEDRAL HYDROFOIL IN IRREGULAR SEAS
AD-436567 N64-18911 11-03

CORRECTION OF IN-PLANE INJECTION DELAY CAUSED BY ORBITAL PLANE REGRESSION IN LUNAR LAUNCH FROM ORBITING SPACE STATION
NASA-RP-160 N64-19032 11-29

SOLAR PROMINENCE OF APRIL 1963 - SOLAR ACTIVITY, MOTION OF PROMINENCE, AND BRIGHT SURGES N64-19156 11-28

MAGNETOMETER FOR DETERMINATION OF ANGULAR MOTION OF SPINNING BODY IN REGULAR PRECESSION
NASA-TN-D-2284 N64-19707 12-30

SATELLITE MOTION SIMULATOR FOR RESPONSE TESTING OF SPACE VEHICLE ATTITUDE CONTROL SYSTEM
NASA-TM-X-51643 N64-19938 12-10

TRAJECTORY CHARTS OF BALLISTIC VEHICLES IN VACUUM ABOUT NONROTATING SPHERICAL EARTH
RM-3752-PR N64-20376 13-21

ELECTROMAGNETIC ANGULAR ROTATION SENSING
AB-1108-0016-3 N64-21562 15-25

SEISMOGRAPHIC STUDY OF SPHEROIDAL FREE PERIODS OF EARTH OSCILLATION
NASA-RP-197 N64-22072 15-12

EFFECT OF STELLAR ENCOUNTER ON PLANETARY MOTION
NASA-CR-56232 N64-22472 15-05

SIMULTANEOUS COMPUTATION OF SECULAR AND RESONANCE EFFECTS ON ORBITAL MOTION OF CELESTIAL BODIES
NASA-TN-D-2152 N64-22749 16-05

ECLIPTIC AND HORIZONTAL COORDINATES OF EARTH MOTION IN LUNAR SKY
NASA-TT-F-8812 N64-23039 16-12

MOVEMENT OF MOMENTARY AXIS IN EARTH ROTATION N64-24651 17-05

EARTH ROTATION EFFECT ON RELATIVE MOTIONS IN ATMOSPHERE AND OCEANS N64-24682 17-21

MODIFICATION OF HILL METHOD OF GENERAL PLANETARY PERTURBATIONS
NASA-TN-D-2375 N64-24823 17-29

ORBITAL PLANE-CHANGE MANEUVER USING COMBINATION OF AERODYNAMIC AND PROPULSIVE FORCES
SSD-TDR-64-98 N64-26107 18-22

OPTIMUM AERODYNAMIC MANEUVER FOR CHANGE OF ORBITAL PLANE DURING NEAR-CIRCULAR ORBITS N64-27977 20-02

ELECTROMAGNETIC ANGULAR ROTATION SENSOR - TRAVELING WAVE RING LASER
AB-1108-0016-1 N64-29284 21-15

MOTION CONSTRAINTS IN SYSTEM OF RIGID BODIES AND APPLICATION TO GYROSCOPE IN CARDAN SUSPENSION
N64-29294 21-23

SPIRAL MOTION OF ELECTRICALLY CONDUCTIVE GAS BETWEEN COAXIAL PERMEABLE CYLINDERS IN PRESENCE OF MAGNETIC FIELD
NASA-TT-F-240 N64-29498 21-24

EXPERIMENTAL MEASUREMENTS OF PITCH AND HEAVE AMPLITUDES OF GROUND EFFECT MACHINE DURING FLIGHT OVER REGULAR FOLLOWING WAVES
DTMB-AERO-1074 N64-31663 23-11

GENERALIZATION OF RESTRICTED THREE-BODY PROBLEM INCLUDING MOTION OF EARTH AND MOON ON COPLANAR KEPLERIAN ELLIPSES
NASA-TM-X-53088 N64-31725 23-05

MOTION EQUATION
DEGREES OF FREEDOM, THEORIES OF STABILITY AND CONTROL, AND EQUATIONS OF MOTION FOR HELICOPTERS
N64-10899 02-04

GRAVITY GRADIENT EXCITATION OF ROTATING CABLE-COUNTERWEIGHT ORBITING SPACE STATION - LAGRANGE EQUATIONS OF MOTION
TDR-169/3530-20/-TN-1 N64-11180 02-30

STABILITY CONDITIONS FOR MOVEMENT OF HEAVY VARIABLE MASS BODY IN VERTICAL PLANE WITH RETARDING FORCE OF MEDIUM TANGENT TO TRAJECTORY
FTD-TT-62-1188/1&2 N64-11188 02-23

ACCELERATION HODOGRAPH USED TO OBTAIN TRANSFORMED EQUATIONS OF MOTION FOR SPACE VEHICLES UNDER GRAVITATIONAL ATTRACTION
NASA-CR-52873 N64-11262 02-29

INTEGRABILITY OF MOTION EQUATIONS OF PARTICLE UNDER ACTION OF NEWTONIAN FORCE & ADDITIONAL PERTURBATION FORCE N64-11426 02-20

MOTION EQUATIONS FOR ARTIFICIAL EARTH SATELLITE & ELLIPTICAL ORBIT PARAMETERS N64-11738 03-29

MOTION EQUATION OF CHARGED PARTICLE IN STATIC MAGNETIC FIELD
NASA-RP-99 N64-13208 04-28

MOTION EQUATIONS - ITERATIVE GUIDANCE SCHEME FOR ASCENT TO ORBIT
NASA-TM-X-51383 N64-13495 05-29

AEROELASTICITY - MOTION EQUATIONS, AERODYNAMIC FORCES, STABILITY AND CONTROL, FLUTTER, AND NOISE EFFECTS N64-13553 05-33

NUMERICAL INTEGRATION OF EQUATIONS OF MOTION FOR POINT PERTURBATIONS IN LAMINAR PLANE POISEUILLE FLOW
AMRA-TR-63-10 N64-13999 05-11

EQUATIONS OF MOTION FOR AIRCRAFT WITH JET ENGINES
FTD-MT-63-94/1&2 N64-14378 06-04

SOLUTION OF GENERAL PROBLEM ON TRANSLATIONAL-ROTATIONAL MOTION OF SPHEROID ATTRACTED BY SPHERE
MH-TRANS-60 N64-15195 07-29

ANALYTIC SOLUTION TO EQUATION OF MOTION FOR MISSILES HAVING SIX DEGREES OF FREEDOM
N64-15645 07-23

MOTION EQUATIONS FOR SYSTEMS OF SOLID BODIES
FTD-TT-62-1152/1&2&4 N64-15690 07-23

DERIVATION OF THREE-DIMENSIONAL THREE-DEGREE-OF-FREEDOM REENTRY EQUATIONS OF MOTION IN TERRESTRIAL NAVIGATIONAL COORDINATES
NASA-TM-X-54561 N64-15885 07-29

MOVEMENTS OF STATICALLY BALANCED GYROSCOPE IN CARDAN SUSPENSION MOUNTED ON VIBRATING BASE - FORMULATION OF EQUATIONS OF MOTION
FTD-TT-62-1280/1&2 N64-16055 07-22

CORRESPONDING RESPONSE FUNCTIONS FOR INPUTS FROM CHARACTERISTIC DIFFERENTIAL EQUATIONS OF MOTION OF TRANSDUCER SYSTEMS N64-16239 08-15

EQUATIONS OF MOTION FOR LIQUID IN OSCILLATING CONTAINER
RSIC-133 N64-16497 08-11

PERIODS AND AMPLITUDES OF PERIODIC SOLUTIONS TO EQUATION OF PERIODIC MOTION
MRC-437 N64-16619 08-20

STATE DETERMINATION FOR FLEXIBLE VEHICLE WITHOUT MODE SHAPE REQUIREMENT
NASA-CR-53099 N64-16742 08-04

STABILITY AND MOTION EQUATIONS FOR PARACHUTES
ARC-R&M-3352 N64-16940 09-03

NUMERICAL ANALYSIS OF INTERACTION BETWEEN STIFF EQUATION AND SEVERAL INTEGRATION PROCEDURES
SSD-TDR-63-380 N64-17313 09-20

PROOF OF INVALIDITY FOR LORENTZ-COVARIANT GRAVITATIONAL LAW - MOTION EQUATIONS
TR-2 N64-17316 09-23

DEVELOPMENT OF EARTH GRAVITATIONAL POTENTIAL FROM SIXTH THROUGH TWELFTH ZONAL HARMONIC
NASA-TM-X-51281 N64-17612 09-12

PITCHING AND YAWING MOTION OF SPINNING SYMMETRIC BLUNT-NOSED MISSILE AT HYPERSONIC SPEED
NASA-TN-D-2135 N64-17734 09-30

NAVIGATION GUIDANCE MECHANISM & ERROR PROPAGATION EQUATIONS FOR TWO-BODY REFERENCE ORBITS
N64-17810 09-29

ROTATIONALLY SYMMETRIC MOTION OF SMALL ANGLE TRUNCATED CONICAL SHELL DUE TO CONSTANT VELOCITY PRESSURE FRONT
AMRA-TR-63-28 N64-18135 10-33

ANALYTIC SOLUTION OF EQUATIONS OF MOTION OF MIDCOURSE PHASE INTERPLANETARY FLIGHT
NASA-CR-53469 N64-18170 10-29

MOTION EQUATIONS FOR HEAVE, PITCH, AND SURGE MOTIONS OF TILT-FLOAT VEHICLES IN WAVES PROGRAMMED FOR DIGITAL COMPUTER
AD-434163 N64-18195 10-11

PARAMETRIZATION OF EUCLIDEAN THREE-DIMENSIONAL ROTATION GROUP - MOTION EQUATIONS
NASA-CR-53568 N64-18448 10-23

MATHEMATICAL ANALYSIS OF LATTICE BOUNDARY VALUE PROBLEMS APPLIED TO MOLECULAR PARTICLE COLLISIONS WITH SURFACES
NASA-CR-53577 N64-18455 10-23

MOTION EQUATIONS FOR HYDROGEN AND HELIUM IONIC DIFFUSION IN GEOMAGNETIC FIELD
AFCRL-64-75 N64-18635 11-12

NONLINEAR MOTION EQUATIONS FOR DYNAMIC STABILITY OF PARACHUTES
AGARD-444 N64-18716 11-04

DIGITAL COMPUTER PROGRAMS FOR DERIVATION OF MOTION EQUATIONS OF COMPLEX SYSTEMS AND FOR DETERMINATION OF STABILITY BOUNDARIES OF NONLINEAR SYSTEMS
AE63-1079 N64-19658 12-20

LAND TRANSPORTATION SYSTEMS ANALYSIS - DERIVATION OF EQUATIONS OF MOTION FOR VEHICLE-PROPULSION SYSTEM COMBINATIONS
RM-3966-RC N64-20410 13-10

PERTURBATION SOLUTIONS FOR EQUATIONS OF MOTION OF VEHICLE SUBJECTED TO LOW THRUST ACCELERATION
N64-20965 14-29

EQUATIONS FOR MOTION AND INTERNAL ENERGY BALANCE OF SELF-GRAVITATING SPHERICAL LIQUID MASS WITH INTERNAL HEAT SOURCE
REPT. 562/07//53 N64-21164 14-23

SIMULATION OF HELICOPTER & V/STOL AIRCRAFT - V/STOL ANALYSIS AND DERIVATION OF MOTION

EQUATIONS
NAVTRADEVCEN-1205-2 N64-21244 14-10

DETERMINATION OF MOTION PARAMETERS OF SPACE VEHICLE USING TRAJECTORY-MEASUREMENT DATA
N64-21627 15-29

EQUATIONS FOR ROTATIONAL MOTIONS OF DYNAMICALLY SYMMETRICAL SATELLITE N64-22028 15-29

DYNAMIC MOTION EQUATIONS FOR ROTATING, CYLINDRICAL SPACE STATIONS
NASA-TM-X-51695 N64-22445 15-30

ANALYTIC SOLUTION TO MOTION EQUATIONS OF MISSILES HAVING SIX DEGREES OF FREEDOM
NOLTR-63-241 N64-22951 16-20

PITCH MOTION VARIATION OF SPACE VEHICLE DUE TO MOTION OF LIQUID FUEL SLOSHING IN PARTLY FILLED TANK
NASA-TN-D-2336 N64-23033 16-02

SOLUTIONS FOR EQUATIONS OF MOTION OF MECHANICAL SYSTEMS N64-23552 16-23

RELATIONSHIP BETWEEN GEOMETRICAL & KINEMATIC ELEMENTS OF PARTICLE MOVING IN ELLIPTICAL ORBIT
N64-23554 16-23

MOTION OF RIGID BODY FASTENED AT STATIONARY POINT
N64-23561 16-23

GEOMETRICAL PROPERTIES OF ANTIPOLE FOR HEAVY, NONSYMMETRICAL BODY MOVING AROUND STATIONARY POINT
N64-23562 16-23

MOTION EQUATIONS OF RIGID BODY WITH LIQUID FILLED CAVITIES N64-23563 16-11

FINDING ACCELERATION OF POINT WITHIN BODY IN PLANE PARALLEL MOTION N64-23568 16-02

LAGRANGE VARIATION EQUATION TO OBTAIN EQUATIONS OF MOTION AND BOUNDARY CONDITION FOR ORTHOTROPIC SHELL N64-23693 16-33

MOTIONS IN OPTIMIZING SYSTEM WITH SENSITIVITY CONTROL N64-24513 17-23

DESIGN OF GYROSCOPIC INSTRUMENTS WITH AID OF NOMOGRAM BASED ON MOTION EQUATIONS
N64-24546 17-15

MOTION EQUATIONS FOR COMPUTER SIMULATION OF HELICOPTER IN ALL FLIGHT CONDITIONS
NAVTRADEVCEN-1205-1 N64-25214 17-10

MOTION EQUATIONS FOR FLUID FLOW THROUGH JET ATOMIZERS OF GAS TURBINE ENGINE
N64-25438 17-27

MATHEMATICS OF MOTION STABILITY IN CLASSICAL AND CELESTIAL MECHANICS
FTD-MT-64-175 N64-25442 17-23

MOTION EQUATION FOR LOCATION OF CENTER OF MASS OF EARTH SATELLITE
FTD-TT-63-1201/1&2&4 N64-25459 17-32

COVARIANCE & ROLE OF COORDINATES IN DERIVATION OF MOTION EQUATIONS IN RELATIVITY
NASA-CR-56829 N64-25568 17-23

APPLICATION OF PRINCIPLE OF INVARIANT IMBEDDING TO PROBLEMS IN TRANSPORT THEORY - HAMILTON EQUATION OF MOTION
RM-3538-PR N64-25740 17-23

EQUATIONS OF MOTION OF ARTIFICIAL SATELLITES WITHIN GRAVITY POTENTIAL OF EARTH
ONERA-TN-111 N64-25850 18-29

DEVELOPMENT OF IRREVERSIBLE EVOLUTION EQUATIONS IN STATISTICAL MECHANICS FROM REVERSIBLE EQUATIONS OF MOTION
WIS-TCI-38 N64-26531 18-20

MOTION EQUATIONS FOR HYPERSONIC FLOW OF MAGNETOGASDYNAMIC MEDIUM
DVL-347 N64-27221 19-11

ANALYTIC SOLUTION TO ELLIPTICAL MOTION EQUATIONS FOR TRAJECTORY CALCULATIONS OF SPACE VEHICLE IN MIDCOURSE PHASE OF INTERPLANETARY FLIGHT
AIAA PAPER-64-398 N64-27326 19-20

MOTION EQUATIONS FOR MECHANICS OF CHANGING BODY OF VARIABLE MASS
NASA-TT-F-8742 N64-27365 19-23

VERTICAL VELOCITY AS EXPRESSED BY HORIZONTAL MOTION EQUATION N64-27401 19-21

EQUATIONS OF MOTION FOR SPINNING ELASTIC ROCKET WITH RESPECT TO ATTACHED AXES - DYNAMIC STABILITY
N64-28100 20-30

MOTION EQUATIONS FOR MANNED LUNAR LANDING TRAJECTORIES
NASA-CR-58630 N64-28853 20-29

SINGULARITIES IN ANALYTIC SOLUTION OF LINEARIZED VARIATIONAL EQUATION OF ELLIPTICAL MOTION
NASA-CR-58703 N64-29215 21-29

RELATIONSHIP BETWEEN NEWTONIAN MOTION EQUATIONS AND HARMONIC COORDINATE CONDITIONS OF ZERO ORDER IN EINSTEIN GRAVITATION THEORY
FTD-TT-63-593/1&2&4 N64-29325 21-23

TRANSLATIONAL AND ROTATIONAL EQUATIONS OF MOTION FOR GRAVITY GRADIENT STABILIZED SATELLITE
TDR-269/4540-70/-2 N64-29797 21-29

MOTION EQUATIONS OF AXISYMMETRIC ROCKET IN CYLINDRICAL COORDINATE SYSTEM N64-30422 22-02

MOTION EQUATIONS FOR AIRCRAFT GUST LOAD RESPONSE
ADR-06-14-63.1 N64-30893 22-02

EQUATIONS OF MOTION FOR THREE BODY PROBLEM IN HAMILTONIAN FORM
NASA-CR-110 N64-31206 22-23

EQUATIONS OF MOTION OF SPACECRAFT IN NEWTONIAN FORCE FIELD FOR CONSTANT REACTION ACCELERATION VECTOR N64-31526 23-29

LONGITUDINAL MOTION OF ELASTIC ROD WITH ATTACHED MASS IN RESISTING MEDIUM - LAPLACE TRANSFORM SOLUTION
NWL-1931 N64-31650 23-33

MOTION EQUATIONS FOR COMPRESSIBLE FLUID FLOWS AROUND FLAT PLATE
NWL-1933 N64-31660 23-11

GYRO MOTION EQUATIONS COMPARED TO ACTUAL DATA IN PERFORMANCE EVALUATION OF GIMBALLED AIRBORNE ELECTROSTATIC GYROSCOPE
HONEYWELL AERO-61811-TR5 N64-31683 23-20

COMPLETE EXPRESSIONS FOR GRAVITATIONAL AND BUOYANCY FORCE TERMS IN MOTION EQUATIONS OF SUBMERGED BODY
DTMB-1845 N64-31832 23-11

OPTIMUM LOAD DROPPING - AUTOMATIC STOPPING AND REVERSAL IN HIGH SPEED HEAVILY LOADED MACHINES
FTD-TT-64-222/1&2 N64-31885 23-17

STABILITY OF DUST CLOUDS IN VICINITY OF EARTH-MOON TROJAN LIBRATION POINTS BY MOTION ANALYSIS IN PRESENCE OF SUN, MOON, AND EARTH - FOUR-BODY PROBLEM
RM-3992-PR N64-31973 23-05

THREE-DIMENSIONAL MOTION FOR AIRCRAFT SIMULATING ICBM FOR RADAR TRACKING
ERDA-81 N64-32139 23-04

LINEARIZED MOTION EQUATIONS FOR ROTATING FLEXIBLE BODIES
D2-22761 N64-32192 23-30

MOTION EQUATIONS FOR FREE VIBRATIONS OF ELASTIC BEAM WITH FOIL SHAPED APPENDAGE

R-1022 N64-32211 23-33

POWER SERIES INTEGRATION APPLIED TO THREE BODY PROBLEM AND ELECTRON MOTION IN MAGNETIC FIELD
NASA-TN-D-2356 N64-32638 23-20

MOTION EQUATION ANALYSIS OF LONGITUDINAL RESPONSE OF UNSTABLE AIRCRAFT
CAL-BA-1610-F-1 N64-33109 24-04

MECHANIZING MOTION EQUATIONS OF HELICOPTERS & V/STOL AIRCRAFT BY DIGITAL COMPUTERS
NAVTRADEVCEN-1205-3 N64-33525 24-10

MOTION EQUATIONS FOR CONSTANT CURRENT SHEET VELOCITY MODEL OF COAXIAL PLASMA ACCELERATOR
R64SD61 N64-33600 24-24

MOTION EQUATIONS IN VECTOR FORM FOR MULTIPLE PART SATELLITE SUBJECTED TO PERTURBING FORCES AND TORQUES
TDR-269/4540-70/-8 N64-33934 24-23

MOTION PERCEPTION
ELEVATOR ILLUSION - APPARENT MOTION OF VISUAL TARGET DURING VERTICAL ACCELERATION
NASA-CR-59180 N64-33159 24-14

MOTION SICKNESS
PHYSIOLOGICAL EFFECTS OF ROTATIONAL ACCELERATION IN RELATION TO MOTION SICKNESS, SPATIAL DISORIENTATION, & BLACKOUT N64-13454 05-16

URINARY CATECHOLAMINE OUTPUT CHANGES ASSOCIATED WITH MOTION SICKNESS DUE TO TURBULENT FLIGHT
SAM-TDR-63-9 N64-13931 05-16

COMPARISON OF SYMPTOMATOLOGY IN HEALTHY PERSONS AND SUBJECTS WITH LOSS OF LABYRINTHINE FUNCTION WHEN EXPOSED TO UNUSUAL CENTRIPETAL FORCES
NASA-CR-55621 N64-15347 07-14

CANAL SICKNESS TEST IN SLOW ROTATING ENVIRONMENT FOR PREDICTION OF SUSCEPTIBILITY TO SEASICKNESS AND AIRSICKNESS
NASA-CR-55620 N64-15348 07-14

PREVENTION AND TREATMENT OF MOTION SICKNESS
FTD-TT-63-287/1&4 N64-16418 08-16

LOSS OF LABYRINTHINE FUNCTION WHEN EXPOSED TO CENTRIPETAL FORCE - MOTION SICKNESS
N64-22432 15-14

PSYCHOLOGICAL TESTING OF EMOTIONAL FACTORS IN SUSCEPTIBILITY TO MOTION SICKNESS
N64-22437 15-14

COMPARISON OF AUTONOMIC AND SOMATIC MOTOR OUTFLOW TO VESTIBULAR STIMULATION - MOTION SICKNESS STUDY
NASA-RP-215 N64-23377 16-16

MOTION SICKNESS SYMPTOMOLOGY OF LABYRINTHINE DEFECTIVE AND NORMAL HUMAN SUBJECTS DURING ZERO GRAVITY MANEUVERS
AMRL-TDR-64-47 N64-28562 20-16

MOTION STABILITY
APPLICATION OF LIAPUNOV DIRECT METHOD TO OBTAIN GENERAL STABILITY OF MOTION
MRC-485 N64-31958 23-23

MOTIVATION
VOCATIONAL INTERESTS OF AIRLINE PILOT CANDIDATES
N64-12752 04-14

EVALUATION OF BRANCHING AND MOTIVATIONAL PHRASES IN SCRAMBLED BOOKS
AMRL-TDR-63-122 N64-15518 07-14

TRAINING, MOTIVATION, AND HUMAN ENGINEERING
AD-446448 N64-29918 21-14

MOTOR
S ELECTRIC MOTOR
S SERVOMOTOR
S TORQUE MOTOR

MOTOR SYSTEM
SPONTANEOUS MOTOR ACTIVITY IN CATS AND ACTIVITY ALTERATION AFTER BILATERAL DESTRUCTION OF CAUDAL NUCLEI N64-31543 23-16

MOTOR SYSTEM /BIOL/
DISARRANGED EYE-HAND COORDINATION
N64-22061 15-14

NEUROPHYSIOLOGICAL ANALYSIS OF MECHANICAL, INTEGRATED FUNCTIONS OF ANIMAL MOTOR SYSTEM
IPST-1014 N64-22232 15-16

COMPARISON OF AUTONOMIC AND SOMATIC MOTOR OUTFLOW TO VESTIBULAR STIMULATION - MOTION SICKNESS STUDY
NASA-RP-215 N64-23377 16-16

MOTOR REACTION TIME IN HUMANS UNDER ISOLATION CONDITIONS N64-23758 16-16

ROLE OF MOTOR AND VISUAL ANALYZERS IN FORMATION OF CONDITIONED REFLEX RESPONSES TO SPATIAL POSITIONS OF OBJECTS N64-25144 17-16

SPINAL MOTOR RESPONSES TO AUDITORY STIMULI
NASA-CR-58548 N64-28833 20-16

NEUROPHYSIOLOGY - MICROELECTRODE TAPPING FOR BIOELECTRIC MEASUREMENTS OF HUMAN MOTOR NEURONS
N64-30240 22-16

PSYCHOLOGICAL PROBLEMS - SENSORIMOTOR PERFORMANCE IN AUTOMATIC CONTROL, VISUAL SIGNALING PARAMETRIC INFLUENCE ON MOTOR REACTION, ALGORITHMIC APPROACH TO LEARNING, AND EYE MOVEMENT CONTROL
JPRS-26014 N64-30321 22-14

PRE-MOTOR BRAIN SECTIONS IN EYE MOVEMENT CONTROL
N64-30325 22-14

MOUNT
S FUSELAGE MOUNTING
S RIGID MOUNTING

MOUNTAIN
CF OROGRAPHY
EFFECTS OF MOUNTAINS ON AIR CURRENTS
RSIC-131 N64-16049 07-21

EFFECT OF NEAR MOUNTAIN RANGES ON PERTURBATIONS IN WIND FIELD IN TULAROSA BASIN, NEW MEXICO
ERDA-157 N64-27866 19-21

MOUNTAIN INHABITANTS
S ALTITUDE ACCLIMATIZATION

MOUSE
MITOTIC CYCLE OF BONE MARROW CELLS IN MICE BY AUTORADIOGRAPHY
JPRS-21629 N64-10069 01-16

RADIATION DAMAGE TO OVARIES, AND ELECTRICAL STIMULATION OF HEART IN MICE - BIBLIOGRAPHY
JPRS-18045 N64-10453 01-16

IRRADIATION EFFECTS ON MICE AND RABBITS, THYROID FUNCTION DETERMINATION, RADIOBIOLOGY, AND MAMMARY CANCER PREOPERATIVE IRRADIATION
JPRS-18904 N64-10807 02-16

IONIZING & X-RAY RADIATION EFFECTS ON MICE - GLANDS & PROTECTIVE SUBSTANCES
JPRS-20421 N64-11355 02-16

EFFECT OF PROTECTIVE SUBSTANCES ON REACTIVITY CHANGES OF THIOL GROUPS IN LIVER OF X-RAY IRRADIATED MICE
JPRS-22125 N64-11359 02-16

INFLUENCE OF SPACE FLIGHT FACTORS ON HEMATOPOIETIC ORGANS IN MICE N64-11677 03-16

EFFECT OF SPACE FLIGHT ON HEMATOPOIETIC ORGANS OF MICE N64-11679 03-16

CONTAINER WITH FEEDING DEVICE FOR ANIMAL STUDY DURING SPACE FLIGHT OF MICE N64-11703 03-16

MICROWAVE MODIFICATION OF X-RAY LETHALITY IN MICE

RADC-TDR-63-352 N64-12270 03-16

ALCOHOL DEHYDRATION, LEUKOSIS IN MICE BY IONIZING RADIATION, AND DIRECT CURRENT EFFECT ON DOGS
JPRS-20153 N64-12722 04-07

LEUKOSIS IN MICE DUE TO IONIZING RADIATION
N64-12724 04-16

EFFECT OF TRYPTAMINE ON FORMATION OF HEMORRHAGES IN IRRADIATED MICE N64-12802 04-16

ANTIBIOTIC THERAPY OF RADIATION SICKNESS IN MICE - STREPTOMYCIN EFFECTIVENESS, TREATMENT TIMING, HINDERING FACTORS, AND DETOXICATING MIXTURE
JPRS-22625 N64-13161 04-16

RADIOSENSITIVITY OF CHROMOSOMES OF EMBRYONIC FIBROBLASTS IN GUINEA PIGS AND MICE IN VITRO
JPRS-22719 N64-13163 04-16

BIOCHEMISTRY - IONIZING RADIATION EFFECT ON MOUSE TISSUE, THERAPEUTIC AGENTS FOR RADIATION INJURIES, AND IRRADIATION EFFECT ON ANIMAL LIFESPAN
QPR-49 N64-13501 05-16

CYANIDE AND NITRILE COMPOUNDS FOR THERAPY OF RADIATION EXPOSURE IN MICE N64-13505 05-16

RECOVERY OF MOUSE TISSUE FROM RADIATION INJURY BY SODIUM SULFITE OR THIAZOLIDINE TREATMENT
N64-13506 04-16

ACETYLATION OF SULFANILAMIDE IN FEMALE MOUSE LIVER DURING CHRONIC IRRADIATION N64-13508 05-16

MORTALITY RATE OF MICE HOUSED IN PLASTIC & METAL CAGES AFTER SINGLE X-RAY DOSE N64-13509 05-16

EFFECT OF EXPOSURE TO LOW TEMPERATURE ON BLOOD CLEARANCE OF CARBON & BACTERIA IN MICE
AAL-TDR-63-1 N64-13629 04-16

TRYPTOPHAN PYRROLASE ACTIVITY EFFECT IN BACTERIAL ENDOTOXIN POISONING IN MICE
AAL-TDR-63-13 N64-13662 05-16

COURSE OF RADIATION SICKNESS IN PROTON IRRADIATED MICE N64-15203 07-16

RELATIVE BIOLOGIC EFFECT OF IRRADIATION OF MICE WITH VARIOUS HEAVY IONS N64-15217 07-16

STUDY OF IRRADIATION EFFECTS ON PEROGNATHUS LONGIMEMBRIS AND EVALUATION OF SUITABILITY FOR SPACE BIOLOGY RESEARCH
NASA-CR-55553 N64-15902 07-16

SURVIVAL OF MICE IN ABSENCE OF INERT GAS
N64-17953 10-16

EFFECT OF INJECTION OF BONE MARROW CELLS ON MORPHOLOGICAL MANIFESTATIONS OF INFLUENZA IN X-RAY IRRADIATED MICE
JPRS-24056 N64-18096 10-16

EFFECT OF INHALED RADON ON SURVIVAL, BODY WEIGHT, AND HEMOGRAM OF MOUSE AFTER SEVERAL EXPOSURES
UR-624 N64-18409 10-16

EXPOSURE OF MICE TO LOW TEMPERATURES FOR SUSCEPTIBILITY TESTS TO KLEBSIELLA PNEUMONIAE
AAL-TDR-63-9 N64-18874 11-16

IONIZING RADIATION EFFECTS ON MAMMALIAN TISSUES, THERAPEUTIC AGENTS FOR RADIATION SICKNESS AND EFFECTS OF LOW LEVEL EXPOSURE ON LIFESPAN OF MICE
QPR-51 N64-20181 13-16

ADDITION OF MODES OF RADIATION INJURY IN PRODUCING LETHALITY IN DOGS, MICE, AND RATS
UR-654 N64-20696 13-16

COLD EXPOSURE EFFECT ON ACTION OF MORPHINE IN RATS AND MICE
AAL-TDR-62-50 N64-23109 16-16

VIRUS AND MORPHOLOGICAL STUDY OF INDUCED RADIATION SICKNESS IN MICE
JPRS-25277 N64-24630 17-16

HYPOXIA, HYPOTHERMIA, AND RADIATION RESPONSE OF POCKET MICE
NASA-CR-58526 N64-28838 20-16

RADIOSENSITIVITY OF MICE AFTER SPLENECTOMY AND APPLICATION OF HOMOGENATE OF SPLEEN TISSUE IN CHRONIC RADIATION SICKNESS N64-30247 22-16

DIVIDED OR PROLONGED IONIZATION RADIATION OF MICE UNTIL DEATH
UR-649 N64-31035 22-16

DISTRIBUTION AND EXCRETION OF BETA-MERCAPTO-PROPYLAMINE, TAGGED WITH SULFUR-35, FROM BODIES OF MICE N64-31348 23-16

SEARCH FOR HEMATOLOGICAL PARAMETER INDICATING EFFECT OF COLD ACCLIMATIZATION ON FORMED ELEMENTS IN MOUSE PERIPHERAL BLOOD
AAL-TDR-63-3 N64-31934 23-16

MOVING TARGET INDICATOR /MTI/ RADAR
RADAR SELECTION OF MOVING TARGET SIGNALS AND EXTRACTION FROM ENTIRE RECEIVER FIELD
N64-24642 17-09

MOVING TARGET INDICATOR /MTI/ RADAR SYSTEM
RADC-TDR-64-84 N64-25722 17-09

MUBIS
S MULTIPLE BEAM INTERVAL SCANNER /MUBIS/

MULTIENGINE AIRCRAFT
WIND-TUNNEL FLUTTER STUDIES OF SWEPTBACK T-TAIL FOR LARGE MULTIJET CARGO AIRCRAFT AT MACH NUMBERS TO 0.90
NASA-TN-D-2179 N64-17725 09-04

MULTIPATH PROPAGATION
CF PATH
OPTIMUM TIME DURATION FOR PULSE TRANSMISSIONS FOR MULTIPATH CHANNELS
REPT. 64G-3 N64-17454 09-08

OPTIMIZATION OF RECEIVER AND ENCODER FOR UNKNOWN SIGNAL WAVEFORMS IN MULTIPATH COMMUNICATIONS
USCEE-104 N64-21778 15-08

NUMERICAL ANALYSIS OF APERTURE-SYNTHESIS METHOD OF MEASURING MULTIPATH FIELD COMPONENTS
NBS-8275 N64-22377 15-08

INCREASED DATA RATE IN TRANSMISSION OVER TIME VARYING MULTIPLE PATHS
ESD-TDR-64-79 N64-25180 17-08

OPTIMUM SIGNAL DESIGN FOR TRANSMISSION THROUGH GAUSSIAN TIME-VARYING MULTIPATH MEDIA
AFCRL-64-485 N64-27438 19-08

HIGH FREQUENCY DIGITAL COMMUNICATION SYSTEM OPERATING UNDER MULTIPATH PROPAGATION AND DOPPLER SHIFT
NCR-3F N64-30736 22-08

SIGNAL RECEPTION FROM INACCESSIBLE TRANSMITTER UNDER MULTIPATH PROPAGATION CONDITIONS
RADC-TDR-64-284 N64-31948 23-08

MULTIPLE AIRBORNE TARGET TRAJECTORY SYSTEM
MULTIPLE AIRBORNE TARGET TRAJECTORY SYSTEM /MATTS/
ATL-TDR-64-57, VOL. 1, PT. 1 N64-33106 24-08

MULTIPLE AIRBORNE TARGET TRAJECTORY SYSTEM /MATTS/ EVALUATION STUDY
ATL-TDR-64-57, VOL. I, PT. 2 N64-33107 24-20

MULTIPLE BEAM INTERVAL SCANNER /MUBIS/
MULTIPLE BEAM INTERVAL SCANNER /MUBIS/ STUDY TO MAINTAIN HIGH DATA RATE FOR LARGE REFLECTOR-TYPE ANTENNAS
AFCRL-64-192/II/ N64-19207 11-09

MULTIPLEX-R
NONLINEAR NOISE TRANSMISSION IN FREQUENCY-DIVISION MULTIPLEX TELEPHONY OVER SSB-PM SATELLITE COMMUNICATION SYSTEM

NASA-TN-D-2365 N64-23920 16-09

MULTIPLEX TRANSMISSION
CONTINUOUS TRANSMISSION MULTICHANNEL RADIOSONDE FOR METEOROLOGICAL SOUNDINGS
AFCRL-64-326 N64-26181 18-32

POWER ALLOCATION IMPROVEMENT IN MULTIPLEX TELEMETRY SYSTEMS BY MODULATING HIGH POWER-CONSUMING FUNCTION ON SEPARATE RADIO FREQUENCY CARRIER
ESD-TDR-64-104 N64-30456 22-08

MULTIPLEXING STATION EQUIPMENT FOR DISTRIBUTED ADAPTIVE MESSAGE BLOCK NETWORK
RM-3764-PR N64-33231 24-08

MULTIPLEXER
PACKAGING OF AIRBORNE MULTIPLEXER-ENCODER PULSE CODE MODULATION TELEMETRY SYSTEM
N64-16160 08-09

MINIATURE MAGNETIC MODULATOR MULTIPLEXER
N64-16165 08-08

INTEGRATED STANDARDS FOR TELEMETRY - REFERENCE SIGNAL GENERATORS, MULTIPLEXERS, TRANSMITTERS, RECEIVERS, AND MAGNETIC TAPE RECORDERS
ARTC-40 N64-28067 20-08

TRANSISTORIZED MULTIPLEXER FOR REPETITIVE SERIAL SAMPLING OF FOUR ANALOG DATA INPUTS
TN-SE-6-64 N64-33054 24-09

MULTIPLIER
SA PHOTOMULTIPLIER
MULTIPLIERS OF P-INTEGRABLE FUNCTIONS IN COMPACT ABELIAN GROUP
AD-429515 N64-15750 07-20

VARACTOR FREQUENCY MULTIPLIER AT CENTIMETER WAVELENGTH
NASA-CR-55223 N64-16107 07-08

DETECTION AND MEASUREMENT OF CYCLE SKIPPING AND PHASE OFFSETS IN FREQUENCY MULTIPLYING PHASE-LOCK FILTERS N64-16168 08-09

CIRCUIT THEORY AND DESIGN - VARACTOR MULTIPLIERS
N64-17887 10-09

OPTIMIZATION OF FREQUENCY MULTIPLIER
QPR-2 N64-20111 13-15

VARACTOR FREQUENCY MULTIPLIERS
QPR-1 N64-20127 13-09

THEORY OF PULSED NEUTRON TECHNIQUE APPLIED TO FAST MULTIPLYING SYSTEMS
EUR-593.E N64-23064 16-23

ERRORS OF MULTIPLIER & SUMMING CIRCUIT OF POTENTIOMETRIC COMPUTERS N64-24517 17-09

DELAY LINE FILTERS FOR FREQUENCY MULTIPLIERS
CU-20-63-AF-1113-ERL N64-25613 17-09

LAGRANGE MULTIPLIER TECHNIQUE FOR DETERMINING STATIONARY POINTS OF RANDOM FUNCTIONS WITH RANDOM CONSTRAINTS
NASA-CR-58593 N64-28890 20-20

NONLINEAR CODES - DIFFERENCE SETS, MULTIPLIERS OF DIFFERENCE SETS, AND EXISTENCE OF DIFFERENCE SETS IN ABELIAN GROUPS
AFCRL-64-137 N64-29432 21-20

EFFICIENCY CALCULATIONS OF MICROWAVE FREQUENCY MULTIPLIERS
REPT.-1 N64-32623 23-09

MULTIPOLAR FIELD
MULTIPOLAR CONTINUUM MECHANICS
C11-88 N64-18625 11-23

DIRECTORS AND MULTIPOLAR DISPLACEMENT IN CONTINUUM MECHANICS
AM-64-9 N64-31999 23-23

MULTIPOLAR CONTINUUM MECHANICS - FUNCTIONALS OF SPACE, TIME, AND MULTIPOLAR DISPLACEMENT
TR-92 N64-32536 23-23

MULTISATELLITE AUGMENTATION PROGRAM-A /MUSAP A/
QUANTITATIVE MAINTAINABILITY REQUIREMENTS TEST AND DEMONSTRATION PLAN FOR MULTISATELLITE AUGMENTATION PROGRAM, PHASE A /MUSAP A/
WDL-TR-2025 N64-14701 06-10

MULTISTAGE ROCKET
FLIGHT REGIMES AND PARAMETERS OF MULTISTAGE ROCKETS N64-11428 02-30

SUPERSONIC LONGITUDINAL STABILITY OF FOUR-STAGE LAUNCH VEHICLE THIRD & FOURTH STAGES
NASA-TN-D-2190 N64-17159 09-30

DISCONTINUOUS VARIATIONAL PROBLEMS & OPTIMAL FLIGHT OF MULTISTAGE ROCKETS
RN-162 N64-21838 15-29

OPTIMUN SELECTION OF MULTISTAGE ROCKET
NASA-TT-F-8917 N64-26768 18-31

OPTIMIZATION OF MULTISTAGE ROCKETS
FTD-TT-63-427/1&2&4 N64-28527 20-31

METHODS OF DESIGN OPTIMIZATION FOR MULTISTAGE ROCKETS N64-30417 22-21

MULTIVIBRATOR
HIGH EFFICIENCY MULTIVIBRATOR TRANSISTOR CIRCUIT
N64-18282 10-09

FREQUENCY STABILIZATION OF ASTABLE MULTIVIBRATORS AGAINST TEMPERATURE AND POWER SUPPLY VOLTAGE VARIATIONS
TR-1186 N64-19117 11-09

TUNNEL DIODE MULTIVIBRATORS AND ADDRESS SCALERS FOR FAST COUNTING
EUR-528.E N64-28629 20-09

MUON
FORTRAN PROGRAM FOR CALCULATION OF PI-BEAM TARGET SPUTTERING IN CIRCULAR ACCELERATOR AND DETERMINING MU-BEAM OF IN-FLIGHT SECONDARY DISINTEGRATION
CERN-63-30 N64-12419 04-20

MUON PAIR PHOTOPRODUCTION IN SYNCHROTRON
RT/F1/63/37 N64-13207 04-23

MUON FLUX LEAVING EARTH SURFACE AFTER PRODUCTION BY COSMIC RAY NEUTRINOS
NEVIS-115 N64-14048 05-23

NEUTRINO EXPERIMENTS - VECTOR BOSONS, MUON & ELECTRON CONVERSION, AND NEUTRAL CURRENTS
N64-15502 07-23

BUBBLE CHAMBER NEUTRINO EXPERIMENTS - PION & MUON PRODUCTION AND BOSON MASS DETERMINATION
N64-15506 07-23

HIGH INTENSITY MUON BEAM WITH LOW PION CONTAMINATION AT THE CERN SYNCHROCYCLOTRON
CERN-63-35 N64-15616 07-23

AVAILABILITY OF POLARIZED MUONS AND ABILITY TO DETECT SPIN DIRECTION - MAGNETIC RESONANCE EXPERIMENTS ON MUON N64-22482 15-23

RANGE MEASUREMENTS FOR MUONS IN BILLION ELECTRON VOLT REGION
CERN-64-31 N64-27658 19-23

INELASTIC ELECTRON-PROTON, POSITRON-PROTON, AND MUON-PROTON SCATTERING
SLAC-25, PT. 2 N64-31058 22-23

EFFECT OF SECOND CLASS AXIAL CURRENT ON RADIATIVE MUON ABSORPTION BY NUCLEI
LNF-64/27 N64-32001 23-23

RANGE-ENERGY RELATION FOR MU MESONS UP TO THE GEV RANGE
LNF-64/38 N64-32005 23-23

MUON COUPLING PARAMETERS FROM RADIATIVE MUON ABSORPTION IN LIQUID HYDROGEN
LNF-64/26 N64-33895 24-23

MURRAY METEORITE
IRON, MAGNESIUM, CALCIUM, AND NICKEL DISTRIBUTION IN MURRAY CARBONACEOUS CHONDRITE
NASA-TM-X-54050 N64-24041 16-18

MUSCLE
MEDICINE AND PHYSIOLOGY - TRACER STUDIES OF MUSCLE FATIGUE AND MULTICHANNEL POTENTIOMETERS FOR PHYSIOLOGICAL MEASUREMENTS
JPRS-18339 N64-11041 02-01

ULTRAVIOLET FLUORESCENCE OF AMINO ACIDS IN FROG MUSCLES
JPRS-19287 N64-11068 02-16

IONIZING RADIATION EFFECT ON LIVER PROTEIN & BIOELECTRIC CURRENT IN MUSCLES
JPRS-18760 N64-11346 02-16

EFFECT OF BODY TEMPERATURE IN BRAIN AND MUSCLE ON ADENOSINE TRIPHOSPHORIC ACID AND CREATINE PHOSPHATE CONTENT N64-12572 04-16

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE AND SHIELDING AGENT ACTION AFTER REPEATED IRRADIATION
JPRS-22082 N64-12886 04-16

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE
N64-12887 04-16

RELATIVISTIC EFFECT, USE, AND RESPIRATORY PHYSIOLOGY OF MUSCLE RELAXANTS
JPRS-22995 N64-14074 05-16

MUSCLE-LIKE CONTRACTIVE DEVICE MADE OF TWO PHASE MEMBRANES - MATHEMATICAL MODEL, CONTROL METHODS
RTD-TDR-63-4181 N64-17118 09-06

VELOCITY OF MUSCLE CONTRACTION IN RESPIRATORY SYSTEM AIRFLOW N64-17928 10-16

RESPIRATORY PHYSIOLOGY OF ABDOMINAL MUSCLE AND DIAPHRAGM IN PRESSURE BREATHING
N64-17929 10-16

REFLEX CONTROL OF ABDOMINAL MUSCLES IN POSITIVE PRESSURE BREATHING N64-17930 10-16

RELAXATION OF MAMMALIAN SMOOTH MUSCLE BY ELECTRIC CURRENT STIMULATION
FR-2 N64-19086 11-16

HUMAN MUSCLE SYNCHRONIZATION WHILE MAINTAINING FIXED POSITION
JPRS-24606 N64-21826 15-16

ELECTROMYOGRAM MEASUREMENT OF BIOELECTRIC CURRENT AS MEASURE OF HUMAN MUSCLE TONUS AND EFFECTS OF WEIGHTLESSNESS AND INCREASED ACCELERATION STRESS
N64-23661 16-16

EFFECTS OF X-RAY IRRADIATION ON ENZYME ACTIVITY IN BRAIN AND MUSCLE TISSUE OF RATS
JPRS-25630 N64-27319 19-16

CAPACITANCE-PICKUP RECORDING METHOD FOR CONTRACTION OF SMOOTH MUSCLE
JPRS-26307 N64-28400 20-15

ELECTRICAL PROPERTIES OF NERVE AND MUSCLE FIBERS BY MEANS OF SURFACE EXTRACELLULAR ELECTRODES
N64-31544 23-16

MUSCULOMOTOR SENSATIONS IN PHYSICAL EXERCISE
JPRS-27192 N64-33761 24-14

MUSCOVITE
HEAT OF FORMATION OF MUSCOVITE, DETERMINED BY SOLUTION CALORIMETRY
BM-RI-6356 N64-14956 06-07

HEAT CONTENT & ENTROPY MEASUREMENTS OF MUSCOVITES AND DEHYDRATED MUSCOVITES
BM-RI-6371 N64-15990 07-19

MUSCULAR STRENGTH
EFFECT OF PRIOR MUSCLE EFFORT ON SYMMETRIC MUSCULAR STRENGTH AND ENDURANCE
JPRS-25593 N64-26459 18-16

MUSCULAR SYSTEM
SA MOTOR SYSTEM /BIOL/
DEVELOPMENT OF SYNAPSES AND CONNECTIONS OF NERVOUS SYSTEM WITH SOMATIC MUSCULAR SYSTEM
JPRS-21415 N64-10595 01-16

VIBRATION STIMULUS TEST OF NEUROMUSCULAR, CENTRAL NERVOUS AND CARDIOVASCULAR SYSTEMS
N64-10782 02-16

SENSORIMOTOR RESPONSE OF MAN IN EVALUATING WEIGHTS UNDER INCREASED GRAVITY OF ACCELERATION
N64-11523 03-14

EFFECT OF SPACE FLIGHT CONDITIONS ON FUNCTIONAL STATE OF VESTIBULAR TONIC & FLEXOR REFLEX IN GUINEA PIGS N64-11861 03-16

ELECTROMYOGRAPHY OF HUMAN MUSCLE TONE IN NORMAL & PATHOLOGICAL STATES
JPRS-22782 N64-13376 04-16

PHARMACOLOGICAL BLOCKING EFFECT OF METHYL DIAZA-BICYCLONONANE DERIVATIVES ON NEUROMUSCULAR ACTIVITY N64-15384 07-16

MUSKHELISHVILI PRINCIPLE
MUSKHELISHVILI EXTENSION PRINCIPLE FOR MULTIVALUED MAPPING FUNCTIONS INVOLVING CORNERS AND CRACK STRESSES
WAL-TR-811.8/4 N64-10244 01-33

MUSTANG WING
FLIGHT SAFETY OF MUSTANG WING AIRCRAFT
ARL/SM-288 N64-27405 19-05

MUTATION
CF GENETICS
PATHOLOGICAL PHYSIOLOGY AND EXPERIMENTAL THERAPY - RADIATION SICKNESS, CONGENITAL DISEASE, AND HETEROHEMOTRANSFUSION REACTIONS
JPRS-17819 N64-10723 02-16

SPACE FLIGHT EFFECT ON INCIDENCE OF LETHAL GENETIC MUTATION OF DROSOPHILA MELANOGASTER INSECTS
N64-11680 03-16

INCIDENCE OF DOMINANT LETHAL MUTATIONS IN MALE DROSOPHILA DURING SATELLITE FLIGHT
N64-11681 03-16

RADIATION EFFECT ON SPERM MUTATION, YEAST CELL RESTORATION, & LIVER REGENERATION, AND SHIELDING ACTION OF CYSTAMINE
JPRS-22083 N64-12793 04-16

GENETIC MUTATION OF MOUSE SPERM BY FAST NEUTRONS
N64-12794 04-16

TRYPTOPHAN SYNTHETASE MUTANTS OF YEAST - SUPER-SUPPRESSOR ACTION IN RELATION TO ALLELIC MAPPING & COMPLEMENTATION
UCRL-11191 N64-17707 09-16

MUTAGENIC AND ANTIMUTAGENIC ACTION OF VARYING CONCENTRATIONS OF SODIUM GALLATE ON GERMINATING SEEDS OF RUSSIAN BLACK HORSE BEANS, VICIA FABA
JPRS-23787 N64-17805 09-16

MUTATIONAL SYNERGISM BETWEEN ULTRAVIOLET RADIATION AND PURINES IN ESCHERICHIA COLI
N64-19544 12-16

BIOSATELLITE PROJECT - MUTATION BY RADIATION AND BIOPHYSICAL STUDIES
NASA-CR-50046 N64-22757 16-16

MAPPING OF GENETIC SITES ON CHROMOSOMES OF YEAST BY X-RAY IRRADIATION AND INDUCED MUTATION
N64-22852 16-16

EFFECT OF SPACE FLIGHT FACTORS ON INCIDENCE OF SEX LINKED RECESSIVE LETHAL MUTATIONS IN FLIES
NASA-TT-F-8826 N64-23043 16-16

MUTATION-CLONE THEORY OF BURNET ANTIBODY FORMATION
N64-23455 16-16

PHYSIOLOGICAL AND BIOCHEMICAL STUDY OF IONIZING RADIATION EFFECTS ON HUMAN METABOLISM AND BIOLOGICAL MUTATION
UCRL-11387 N64-27799 19-16

TAUTOMER TRANSFORMATIONS OF NUCLEIC ACID COMPONENTS AND ROLE IN MUTAGENESIS
N64-28035 20-16

MYLAR
STATIC AND VIBRATIONAL TENSILE PROPERTIES OF NYLON AND MYLAR ROPE
FTDM-3159 N64-16638 08-19

LOW DENSITY POLYURETHANE FOAM WITH MYLAR AND ALUMINUM FOIL THIN-FILM SEAL AS INSULATION SYSTEM FOR LIQUID HYDROGEN TANKS OF ROCKET VEHICLES
N64-19371 12-13

MYLAR INSULATION IN RELAY MANUFACTURING
N64-19506 12-17

PROBLEMS IN MEASUREMENT OF THIN EVAPORATED METAL FILMS ON MYLAR
NASA-CR-58209 N64-27904 20-17

N

N-P-N JUNCTION
HIGH INPUT IMPEDANCE OF N-P-N SILICON GROWN JUNCTION DIFFUSED-BASED TRANSISTORS
AMRL-TDR-63-117 N64-29929 21-25

NACELLE
EFFECTS OF WELDED CONSTRUCTION ON FATIGUE STRENGTH OF NACELLE FRAMES OF B-58 AIRCRAFT
FZM-4-1147 N64-20074 13-18

SUPERSONIC WIND TUNNEL TESTS ON INTERFERENCE EFFECTS BETWEEN INTAKE FLOWS IN FOUR ENGINE NACELLE
ARC-CP-753 N64-28771 20-02

NANOSECOND
PERFORMANCE CHARACTERISTICS OF MODULAR NANOSECOND CIRCUITRY USING TUNNEL DIODES N64-12558 04-09

NANOSECOND TIME CODER FOR FLIGHT TIME ANALYSIS
EUR-491.E N64-15559 07-23

VERY SHORT PULSE AMPLIFICATION STUDY USING HIGH POWER MICROWAVE AMPLIFIERS N64-16136 08-09

DISTORTION STUDY OF NANOSECOND PULSES
N64-16140 08-09

PROBABILITY OF NANOSECOND PULSE BREAKDOWN INITIATION AND GROWTH
BDM-82-102 N64-16626 08-09

NANOSECOND PULSED RADAR SCATTERING SYSTEM WITH GATED RECEIVER N64-24306 17-08

PULSE RADAR SCATTERING FROM LINEAR TARGETS USING X-BAND RADAR WITH NANOSECOND PULSE WIDTH
N64-24319 17-08

NANOSECOND PULSES OF ULTRAHIGH FREQUENCY OSCILLATION
FTD-TT-64-472/1&2 N64-26125 18-09

TEN NANOSECOND SEMICONDUCTOR SWITCH
NASA-CR-58794 N64-30522 22-09

NANOSECOND-PULSE BREAKDOWN DATA AT MICROWAVE FREQUENCIES OF GASES FOR RADAR TRANSMITTERS
RADC-TDR-64-204 N64-31910 23-24

NAPHTHALENE
ALKYLATING TETRAHYDRONAPHTHALENE IN THE ALIPHATIC RING BY OLEFINS N64-11158 02-07

SOLUBILITY OF ALKALI METAL DINONYLNAPHTHALENE SULFONATES IN SOLVENTS OF VARYING POLARITY AND SOLUBILITY THEORY OF OIL-SOLUBLE SOAPS
NRL-6010 N64-12832 04-07

NAPHTHALENE TRISULFONIC ACID AND SACCHARIN BEHAVIOR IN NICKEL SULFAMATE PLATING BATH - STRESS PREVENTING AGENT
RIA-TR-63-3346 N64-13311 04-17

ELECTRICAL RESISTIVITY OF NAPHTHALENE, GLUCOSE, AND PHENANTHRENE
NOLTR-63-75 N64-26238 18-25

SPACECRAFT APPLICATIONS OF SUBLIMING MATERIALS - BIPHENYL, CAMPHOR, AND NAPHTHALENE
TG-593 N64-33016 24-25

NASA PROGRAM
CF SPACE PROGRAM
EMPIRE PROGRAM FOR NASA - MISSION ANALYSIS AND SPACECRAFT SYNTHESES FOR MANNED CLOSE APPROACH TO VENUS AND MARS N64-10042 01-32

BIOTECHNOLOGY AND HUMAN RESEARCH PROGRAM OF NASA - BIOASTRONAUTICS
A63-10208 N64-10302 01-16

NASA MANNED SPACE FLIGHT PROGRAM AND SPACECRAFT CENTER FACILITIES N64-10611 01-04

NASA EIGHTH SEMIANNUAL REPORT TO CONGRESS
N64-11421 02-01

GENERAL DESCRIPTION OF NASA PROGRAMS AND CENTERS
N64-11729 03-01

ORGANIZATION OF NASA AND OFFICE OF MANNED SPACE FLIGHT TO ACCOMPLISH EXPLORATION OF SPACE
N64-11780 03-01

FUTURE OF METEOROLOGICAL SATELLITES, COMMUNICATION SATELLITES, & SATELLITE SYSTEMS
NASA-TM-X-51277 N64-11795 03-01

NASA QUALITY & RELIABILITY CONTROL PROGRAM
NASA-TM-X-51276 N64-11813 03-01

COST ESTIMATION OF NASA PROGRAM FOR SPACE EXPLORATION
NASA-TM-X-51275 N64-11814 03-01

NASA PROGRAM CONCISE CHRONOLOGY
NASA-TM-X-51333 N64-12098 03-01

ACCOMPLISHMENTS OF NASA SATELLITE AND SPACE PROBE PROGRAMS AND MANAGEMENT PLANNING
N64-14432 06-01

NASA AEROSPACE NUCLEAR RADIATION SAFETY PHILOSOPHY
N64-14555 06-30

NASA SPACE MEDICINE PROGRAM, BIOMEDICAL RESEARCH, AND LIFE SCIENCES RESEARCH
NASA-TM-X-51344 N64-14866 06-16

NASA PROGRAMS - FACILITIES, MANPOWER, AND BUDGET
NASA-TM-X-54545 N64-15530 07-01

NASA SPACE SCIENCES AND APPLICATIONS PROGRAMS
NASA-TM-X-54602 N64-16026 07-32

VARIABLE GEOMETRY STRUCTURES - NASA PROGRAM RESEARCH ACTIVITES
AGARD-447 N64-16538 08-04

INFORMATION STORAGE, RETRIEVAL, AND DISSEMINATION FOR NASA PROGRAM - DATA PROCESSING
N64-16729 08-01

HISTORY OF MARSHALL SPACE FLIGHT CENTER - DOCUMENTATION
NASA-TM-X-51524 N64-17797 09-01

EXPERIMENTS & RESEARCH IN ASTRONOMY, SOLAR PHYSICS, PLANETARY ATMOSPHERES, IONOSPHERES & RADIO PHYSICS, PARTICLES & FIELDS, AND BIOSCIENCES
NASA-TM-X-51603 N64-19258 11-01

NASA PROGRAM HEARINGS BEFORE COMMITTEE ON SCIENCE AND ASTRONAUTICS N64-19272 11-01

NASA PROGRAM HEARINGS BEFORE COMMITTEE ON SCIENCE AND ASTRONAUTICS N64-19273 11-01

NASA PROGRAM HEARINGS BEFORE COMMITTEE ON SCIENCE AND ASTRONAUTICS N64-19274 11-01

NASA PROGRAM HEARINGS BEFORE COMMITTEE ON SCIENCE AND ASTRONAUTICS N64-19275 11-01

IMPACT AND CHALLENGE OF NASA PROGRAM TO EDUCATION
NASA-TM-X-51625 N64-19597 12-01

BUDGET APPROPRIATION, COST ESTIMATE, & MANAGEMENT PLANNING FOR NASA PROGRAM N64-20199 13-01

RESEARCH AND TECHNOLOGY AT NASA FACILITY N64-20505 13-01

NASA RESEARCH PROGRAMS IN SPACE FLIGHT AND GUIDANCE
NASA-TM-X-53024 N64-20949 14-01

NASA RESEARCH IN SPACE FLIGHT AND GUIDANCE THEORY N64-20950 14-22

NASA PROGRAM ON COMMUNICATIONS AND ELECTRONICS N64-21050 14-08

CONGRESSIONAL HEARING ON NASA PROGRAM FOR RANGER PROJECT N64-23014 16-01

NASA RESEARCH ON EXPANDABLE STRUCTURES N64-23713 16-33

NASA NINTH SEMIANNUAL REPORT TO CONGRESS, JAN. 1 THROUGH JUN. 30, 1963 N64-23946 16-01

NASA PROGRAM FOR DEVELOPMENT OF SATURN V LAUNCH VEHICLE
AIAA PAPER-64-271 N64-24237 17-32

NASA PROGRAM - RANGER PROJECT REPORT TO CONGRESS N64-24973 17-32

INDEX OF SUBJECTS AND PERSONAL NAMES FOR SENATE HEARINGS ON 1965 AUTHORIZATION FOR NASA PROGRAMS N64-27237 19-01

PHOTOGRAPHS AND DESCRIPTIONS OF NASA PROGRAMS OVER PAST FIVE YEARS
NASA-EP-14-REV.5-64 N64-27667 19-32

ADVANCED NASA SCIENTIFIC AND TECHNICAL INFORMATION SYSTEM
NASA-CR-58480 N64-28270 20-08

SOLVING ECONOMIC PROBLEMS OF MIDWEST THROUGH JOINT EFFORTS OF INDUSTRIES AND UNIVERSITIES AS RELATED TO NASA PROGRAMS N64-28850 20-01

HANDBOOK OF LOCATION AND FUNCTION OF NASA FACILITIES N64-28919 20-10

PRACTICAL APPLICATIONS OF FLUID AMPLIFIERS IN NASA PROGRAM
NASA-CR-58028 N64-28941 20-09

NASA ACHIEVEMENTS & INTERNATIONAL COOPERATION IN SPACE N64-29494 21-01

SUMMARY REPORT TO CONGRESS ON NASA PROGRAMS - DATA ACQUISITION, MANNED SPACE FLIGHT, NUCLEAR POWER & PROPULSION, SATELLITE APPLICATIONS, TRACKING, AND INTERNATIONAL COOPERATION N64-29539 21-01

CABLE IRRADIATION TESTS FOR NASA RIFT PROGRAM
NASA-CR-56779 N64-29558 21-27

NEW ENGLAND UNIVERSITIES AND NASA PROGRAM N64-30329 22-01

NASA PROGRAMS FOR SOLAR ACTIVITY AND RADIATION STUDIES N64-30338 22-29

PERFORMANCE, COST, AND TIME FACTORS IN NASA PROGRAMS AND CONTRACTS N64-30346 22-10

NASA-UNIVERSITY RELATIONSHIPS N64-30347 22-10

NASA PUBLICATIONS MANUAL FOR SCIENTIFIC AND TECHNICAL REPORTS
NASA-SP-7013 N64-30609 22-01

SPACE PROGRAMS FOR PERIOD 1962-1975 - BOOSTERS, DESIGNATIONS, DIMENSIONS, COST, AND LAUNCH DATES
SP-3 N64-30775 22-30

NASA TESTS ON MECHANICAL PROPERTIES OF MATERIALS APPLICABLE FOR SUPERSONIC TRANSPORTS
NASA-TM-X-1013 N64-31220 22-18

NASA TECHNOLOGY TRANSFER TO INDUSTRY AND BUSINESS N64-32041 23-01

EFFECTS OF NATIONAL SPACE PROGRAMS ON EDUCATION AND UNIVERSITIES N64-32042 23-01

NEW AGE OF DISCOVERY - SPACE EXPLORATION AND ENVIRONMENT, LUNAR ORBIT AND LANDING, AND APOLLO SPACECRAFT N64-32634 23-01

NASA-DEFENSE DEPARTMENT RELATIONSHIP N64-32941 24-01

NASA LAUNCHING OF SATELLITE TO GATHER INFORMATION ON METEOROID HAZARDS IN SPACE FLIGHT N64-33063 24-32

OBJECTIVES OF NASA PROGRAM AND APOLLO PROJECT CONTRIBUTION - DEDICATION SPEECH N64-33072 24-10

NASA PROGRAM - PROGRESS AND GOALS IN SPACE N64-33371 24-01

NASA AND OTHER NATIONAL SPACE PROGRAMS N64-33863 24-01

NATIONAL AIR SPACE UTILIZATION SYSTEM
NATIONAL AIRSPACE SYSTEM DESIGN - AIR TRAFFIC, NAVIGATION, AIRPORT AND WEATHER CONTROL N64-11912 03-01

FEDERAL AVIATION AGENCY MEASUREMENT OF NATIONAL AIRSPACE SYSTEM N64-13195 04-01

NATIONAL SEVERE STORMS PROJECT
FIELD OPERATIONS OF NATIONAL SEVERE STORMS PROJECT IN 1963 - PLANNING & FACILITIES
NSSP-20 N64-19080 11-21

NATURAL FREQUENCY
EIGENVALUE PROBLEM AND APPROACH FOR DETERMINATION OF ANTENNA SYSTEM NATURAL FREQUENCIES & MODES - COMPUTER PROGRAM FOR EIGENVALUES AND VECTORS
NASA-CR-55215 N64-13196 04-20

MATRIX METHOD USING FLEXIBILITY INFLUENCE COEFFICIENTS FOR DETERMINING MODE SHAPES AND NATURAL FREQUENCIES OF SPACE VEHICLES
NASA-TM-X-54566 N64-16332 08-33

NATURAL FREQUENCIES FOR AXISYMMETRIC VIBRATION OF DEEP SPHERICAL CAP
AMRA-TR-63-23 N64-25018 17-33

NATURAL FREQUENCIES OF TWISTED NONROTATING AND ROTATING BLADES IN COUPLED BENDING AND TORSION
NASA-CR-65 N64-26033 18-03

SHELL MODE COUPLING - NATURAL FREQUENCIES, MODE SHAPES, AND SHELL VELOCITIES
U411-63-041 N64-26857 18-33

NATURAL FREQUENCY OF VIBRATION OF COMPRESSOR FOUNDATION AND ISOLATION FROM ENVIRONMENT
NAL-TN-AE-22-63 N64-28980 20-33

NATURAL SATELLITE
SATELLITE ORBIT INCLINATION AND ECCENTRICITY, AND OCCURRENCE OF NEAR-COMMENSURATE MEAN MOTIONS IN SOLAR SYSTEM
CRSR-128 N64-12963 04-29

NAVIER STOKES EQUATION
FRACTIONAL POWERS & SEMIGROUPS OF OPERATORS FOR EXISTENCE THEOREMS OF THREE-DIMENSIONAL FLOWS IN HILBERT SPACE - NAVIER-STOKES EQUATION
TR-121 N64-13082 04-20

SHOCK-WAVE PROFILE COMPUTATION USING KROOK COLLISION MODEL EQUATION IN ITERATION SCHEME

STARTING FROM NAVIER-STOKES SOLUTION
NASA-CR-53019 N64-13268 04-11

AUTOMATIC DIGITAL COMPUTER METHOD FOR STEADY-STATE SOLUTIONS TO NAVIER-STOKES EQUATION
ARC-R&M-3331 N64-13356 04-20

NAVIER-STOKES EQUATIONS FOR SYMMETRIC STAGNATION & WAKE FLOW PAST SEMI-INFINITE PLATES
NWL-1886 N64-13642 05-11

NAVIER-STOKES EQUATIONS USING OSEEN APPROXIMATION FOR SOLUTION OF SLIP FLOW PAST SLENDER POINTED BODIES
COA-160 N64-16921 09-02

SOLUTIONS OF NAVIER-STOKES EQUATIONS FOR TEMPERATURE DISTRIBUTIONS IN STEADILY ROTATED CYLINDRICAL VORTEX TUBE
AFOSR-TN-60-1227 N64-18049 10-11

NUMERICAL PROCEDURE FOR SOLVING NAVIER-STOKES EQUATION AND APPLICATION TO ONE-DIMENSIONAL FLOW FIELD IN SUPERSONIC NOZZLE WITH NORMAL SHOCK WAVE
REPT.-63SD891 N64-21567 15-20

SOLUTION TO INITIAL VALUE PROBLEM FOR LINEARIZED NAVIER-STOKES EQUATIONS
REPT.-562/07/56 N64-22552 15-11

NAVIER-STOKES EQUATIONS FOR STEADY FLOW MOTION OF VISCOUS INCOMPRESSIBLE FLUIDS AROUND CONICAL SURFACES
NWL-1922 N64-22707 15-11

NAVIER-STOKES CALCULATION OF ARGON SHOCK WAVE STRUCTURE
TR-5 N64-24880 17-20

FOURIER ANALYSIS METHOD FOR NUMERICAL SOLUTION OF NAVIER STOKES EQUATIONS
MRC-479 N64-29876 21-11

TRANSFORMATION OF EULERIAN FORM OF NAVIER STOKES EQUATION INTO LINEAR LAGRANGIAN MODEL OF TURBULENT HEAT CONDUCTION AND CONVECTION
GEOPHYS. SCI. LAB. REPT.-63-8 N64-31242 22-13

NUMERICAL SOLUTION OF NAVIER STOKES EQUATIONS GOVERNING INCOMPRESSIBLE VISCOUS FLUID FLOW
MRC-482 N64-31956 23-20

NAVIGATION
SA AIR NAVIGATION
SA CELESTIAL NAVIGATION
SA COLLISION AVOIDANCE NAVIGATION
SA INERTIAL NAVIGATION
SA INTERPLANETARY NAVIGATION
SA MARINE NAVIGATION
SA NAVIGATION AND GUIDANCE
SA ONBOARD NAVIGATION
SA PLOTTING
SA RADAR NAVIGATION
SA RADIO NAVIGATION
SA SPACE NAVIGATION
SA STAR TRACKER
SA TRIANGULATION
CF GUIDANCE
ARTIFICIAL EARTH SATELLITES FOR TERRESTRIAL NAVIGATION
NASA-TM-X-51206 N64-11110 02-32

CONNECTION OF GEOMETRIC COORDINATES WITH TIME INCREMENTS IN NAVIGATIONAL THEORY
JPRS-22089 N64-11321 02-22

LASER TECHNIQUES FOR DOPPLER OPTICAL NAVIGATION - SUBCARRIER FREQUENCY, ELECTRO-OPTICAL MODULATION, AND NOISE ELIMINATION
QPR-2 N64-14667 06-25

COMPUTER REQUIREMENTS FOR SCANNING CAMERA NAVIGATION SYSTEM
CDC-TM-9552-6 N64-20002 13-20

ESTIMATING FIX ACCURACY OF RADIO NAVIGATION SYSTEM
NEL-1188 N64-20374 13-22

NAVIGATION, MINING, AND MILITARY APPLICATIONS OF GYROSCOPES
FTD-TT-63-837/1&2&4 N64-22356 15-22

MILITARY TECHNOLOGY - INFANTRY TRAINING IN LAND NAVIGATION
HUMRRO-TR-89 N64-22925 16-22

MILITARY TECHNOLOGY - LAND NAVIGATION AND MOVEMENT OF INFANTRYMAN
HUMRRO-TR-30 N64-23450 16-22

NAVIGATION INSTRUMENT - SINGLE GYROSCOPE GIMBAL PLATFORM N64-24518 17-15

SELECTION OF OPTIMAL PARAMETERS OF GYROSCOPIC NAVIGATION INSTRUMENTS ON BASIS OF ECONOMY & TECHNOLOGY N64-24521 17-15

CALCULATING STRENGTH OF SCREW PROPELLER BLADES FOR SHIPS USED IN ICE NAVIGATION
JPRS-25936 N64-26877 18-34

NAVIGATION AID
NAVIGATION AIDS FOR FIGHTER AIRCRAFT IN PROTECTION OF GROUND FORCES
FTD-TT-62-1704/1 N64-23288 16-22

NAVIGATION AND GUIDANCE
CELESTIAL MECHANICS FOR SPACE FLIGHT GUIDANCE - TWO-BODY PROBLEM
REPT.-27 N64-12425 04-05

SENSOR AND GUIDANCE CONTROL METHODS FOR SPACE MISSIONS
NASA-CR-55075 N64-13013 04-22

MULTIFUNCTION SENSORS FOR SPACE VEHICLE GUIDANCE & NAVIGATION
RTD-TDR-63-4049 N64-13127 04-22

ATOMIC OSCILLATOR DEVICE FOR NAVIGATION & GUIDANCE
P&B-859 N64-15748 07-22

NAVIGATION & GUIDANCE OF INSECT BY SENSE OF SMELL
LAMS-3027 N64-17241 09-16

NAVIGATION GUIDANCE MECHANISM & ERROR PROPAGATION EQUATIONS FOR TWO-BODY REFERENCE ORBITS N64-17810 09-29

ATOMIC OSCILLATOR DEVICE FOR NAVIGATION & GUIDANCE
ASD-TDR-64-2 N64-20136 13-22

NASA RESEARCH IN SPACE FLIGHT AND GUIDANCE THEORY N64-20950 14-22

CURRENT STATUS OF NAVIGATION, GUIDANCE, AND CONTROL
AIAA PAPER-64-500 N64-23613 16-22

CESIUM BEAM TUBE FOR NAVIGATION AND GUIDANCE
P&B-894 N64-27475 19-09

TWO-BODY MIDCOURSE NAVIGATION AND GUIDANCE FOR LUNAR MISSIONS
AIAA PAPER-64-649 N64-27674 19-22

GUIDANCE-NAVIGATION SEPARATION THEOREM FOR TRAJECTORY CONTROL SYSTEM
AIAA PAPER-64-653 N64-27754 19-22

SINGLE-AXIS LINEAR ACCELEROMETER, NAVIGATION AND GUIDANCE PROBLEMS, AND DATA HANDLING
NASA-CR-58332 N64-28068 20-22

SEPARATION THEOREM FOR DESIGN OF NAVIGATION AND GUIDANCE SUBSYSTEMS TO ACHIEVE OPTIMUM CONTROL
NASA-CR-58341 N64-28988 20-22

X-20A NAVIGATION AND GUIDANCE REQUIREMENTS, SOLUTIONS AND EQUIPMENT
SEG-TDR-64-5 N64-29612 21-22

NAVIGATION SYSTEM
SA SATELLITE NAVIGATION SYSTEM
FUNDAMENTAL ACCURACY LIMITATIONS OF MOBILE TRACKING SHIPS - NAVIGATION SYSTEMS
AGARD-407 N64-10073 01-10

ERROR ANALYSIS & FIX ACCURACY OF OMEGA NAVIGATION SYSTEM
NEL-1185 N64-11173 02-22

LASER TECHNIQUES FOR DOPPLER OPTICAL NAVIGATION - SUBCARRIER FREQUENCY, ELECTRO-OPTICAL MODULATION, AND NOISE ELIMINATION
QPR-2 N64-14667 06-25

NAVIGATION SYSTEM USING HIGH ACCURACY FREQUENCY STANDARD IN AIRCRAFT N64-15151 07-22

MECHANIZATION OF SELF-CONTAINED NAVIGATION SYSTEM FOR MULTIPHASED SPACE MISSION N64-16171 08-22

REVISIONS FOR TRACK-WHILE-SCAN NAVIGATION SYSTEMS REFORMULATION OF LEAST SQUARES NAVIGATION COMPUTATION AND ERROR ANALYSIS
NASA-CR-53651 N64-18499 10-22

NAVIGATION SYSTEM AND VISUAL DISPLAY IN RH- 2 HELICOPTER
D228-100-008 N64-19136 11-04

ESTIMATING FIX ACCURACY OF RADIO NAVIGATION SYSTEM
NEL-1188 N64-20374 13-22

ALL-WEATHER AIRCRAFT LANDING SYSTEM - PROGRAM MANAGEMENT N64-20933 14-22

OPTIMIZATION OF VELOCITY INERTIAL NAVIGATION SYSTEM
AD-600140 N64-21098 14-22

INERTIAL NAVIGATION - SYSTEM THEORY AND COMPONENTS
FTD-TT-63-474/1&2 N64-21931 15-22

EFFECTS OF TERRAIN AND WEATHER CONDITIONS ON AIRBORNE DOPPLER RADAR NAVIGATION SYSTEM
RD-64-15 N64-23238 16-22

ADVANCED RANGE INSTRUMENTATION SHIPS FOR PROVIDING SIGNATURE AND TRAJECTORY INFORMATION INDEPENDENT OF OUTSIDE NAVIGATION REFERENCE - ACCURACY EVALUATION N64-29109 21-08

X-20A NAVIGATION AND GUIDANCE REQUIREMENTS, SOLUTIONS AND EQUIPMENT
SEG-TDR-64-5 N64-29612 21-22

PICTORIAL NAVIGATION DISPLAY SYSTEMS FOR LOW ALTITUDE TACTICAL SITUATIONS
AD-601711 N64-30551 22-22

NAVIGATION SYSTEM BASED ON CELESTIAL BODY TRACKER FOR LUNAR MOBILE LABORATORY /MOLAB/ OF APOLLO LOGISTICS SUPPORT SYSTEMS
NASA-CR-61013 N64-31717 23-22

NOMOGRAMS FOR REDUCTION OF CIRCULAR ERROR OF POSITION DATA IN INERTIAL AND RADAR NAVIGATION SYSTEMS
NADC-AI-6361 N64-32325 23-22

DESIGN, COMPUTER SIMULATION, AND FEASIBILITY OF TRACK-WHILE-SCAN NAVIGATION CONCEPT
NASA-CR-59297 N64-33335 24-22

NEBULA
SA PLANETARY NEBULA
NEW VARIABLE STARS IN ZONE OF ROSETTE NEBULA N64-10024 01-05

POLARIMETRIC INVESTIGATION OF COMETARY NEBULA NGC 2261 N64-10030 01-05

COLORIMETRY OF COMETARY NEBULA NGC 2261 N64-10031 01-20

VARIABLE STARS IN REGION OF NGC 1999 N64-11312 02-05

GRAVITATIONAL STABILITY OF FILAMENTS IN GAS-DUST NEBULAE
MH-TRANS-421 N64-11628 03-05

OCCULTATION OF CRAB NEBULA BY SOLAR CORONA
AD-428675 N64-19920 12-05

HISTORY OF THEORIES ON ORIGIN OF SOLAR SYSTEM - ANGULAR MOMENTUM & EDDY DIFFUSION IN HYPOTHETICAL MODEL SOLAR NEBULA
AFCRL-64-167 N64-20391 13-29

RELATION BETWEEN COMET-SHAPED NEBULA AND COMET-SHAPED INCLUSIONS IN DIFFUSED NEBULA - CELESTIAL MECHANICS N64-23181 16-29

LIGHT RADIATION PRESSURE ON DUST AND GAS - INTERSTELLAR MOTION AND STRUCTURE OF NEBULAS N64-23182 16-29

COMPOSITION AND STRUCTURE OF ICY CONGLOMERATE COMET NUCLEI IN SOLAR NEBULA
NASA-RP-205 N64-24221 16-23

ORIGIN OF SOLAR NEBULA - PROBLEM OF SOLAR MOMENTUM AND HYDROMAGNETIC MOMENTUM TRANSFER N64-24762 17-05

POLARIZATION OF RADIATION FROM NEBULA N64-24783 17-28

EVOLUTION OF H II REGION AROUND EARLY STARS, FORMATION OF PERIPHERAL STRUCTURE IN DIFFUSE NEBULA, AND HYDRODYNAMIC STABILITY
STL-TRANS-79 N64-26450 18-05

PHYSICS OF NEBULAS AND INTERSTELLAR MATERIAL N64-28397 20-29

NEODYMIUM
INFLUENCE OF CERIUM, LANTHANUM, AND NEODYMIUM ON PROPERTIES OF HIGH-TEMPERATURE NICKEL-BASE ALLOYS
JPRS-21895 N64-10382 01-18

TEMPERATURE AND PRESSURE EFFECT ON CHROMIUM IONS IN RUBY AND ALEXANDRITE AND NEODYMIUM IONS IN HYDRATE OF PRASEODYMIUM NEODYMIUM NITRATE
E-T-G-63-9 N64-12200 03-25

GLASS LASER RESEARCH - SPECTRAL PROPERTIES OF NEODYMIUM-DOPED GLASSES
LRC-63-991 N64-14783 06-19

IMPROVEMENT OF MECHANICAL PROPERTIES OF MAGNESIUM-NEODYMIUM ALLOYS BY FURTHER ALLOYING N64-21190 14-18

INORGANIC RARE EARTH OXIDES, RADIATION EMANATION OF NEODYMIUM IONS, TANTALUM CALCITE, & LEAD OXIDE-BISMUTH OXIDE
JPRS-24372 N64-21857 15-07

RADIATION EMANATION OF NEODYMIUM IONS N64-21859 15-07

OPERATION OF NEODYMIUM LASER
NOLTR-64-32 N64-23926 16-25

ENERGY TRANSFER IN SILICATE GLASS COACTIVATED WITH CERIUM AND NEODYMIUM
NRL-1546 N64-30676 22-25

NEODYMIUM COMPOUND
MAGNETIC FIELD DEPENDENCE OF SPIN-LATTICE RELAXATION IN NEODYMIUM MAGNESIUM NITRATE
TR-6 N64-32000 23-25

NEON
CF RARE GAS
VISCOSITY OF NEON-HELIUM & NEON-ARGON MIXTURES AND THREE PURE COMPONENTS - SQUID PROJECT
BRN-8-P N64-12931 04-19

SOLIDIFICATION OF LIQUID HYDROGEN AND NEON FOR CRYOGENIC-SOLID COOLING SYSTEM
REPT.-0694-01-3 N64-12999 04-26

GASEOUS LASER USING NEON-HELIUM OR OXYGEN TO PRODUCE OPTICAL RADIATION
NASA-CR-55276 N64-13929 05-25

THERMODYNAMIC PROPERTIES OF NEON
NASA-CR-55326 N64-14273 06-23

ABSORPTION CROSS SECTIONS OF HELIUM, NEON, ARGON, KRYPTON, AND XENON FROM PHOTOIONIZATION THRESHOLDS TO 280 ANGSTROM UNITS
GCA-TR-64-3-N N64-17671 09-23

ATOMIC SCATTERING FACTOR OF NEON, ARGON, KRYPTON, AND XENON
AMRA-TR-63-15 N64-18571 11-23

MERCURY, POTASSIUM, ARGON, NEON, AND HELIUM GAS DISCHARGE STUDY AT VERY LOW PRESSURES
FTD-TT-62-1238/1&2 N64-21918 15-11

CAPTURE COEFFICIENT OF LIQUID HELIUM AND LIQUID NEON COOLED CRYOPLATE IN SUPERSONIC LOW DENSITY AIR STREAM
AEDC-TDR-64-124 N64-22386 15-11

THERMODYNAMIC PROPERTIES OF NEON
N64-22950 16-13

SOLUBILITY OF NEON IN WATER AND EXTRACTED HUMAN FAT
SAM-TDR-64-28 N64-24141 16-16

MOMENTUM TRANSFER COLLISION FREQUENCIES OF ELECTRONS WITH NEON IONS AND NEUTRAL ATOMS IN DECAYING NEON PLASMA
R-201 N64-24645 17-24

HELIUM-NEON VISIBLE LASER
AD-437650 N64-25036 17-25

HELIUM-NEON GAS LASER AS LIGHT SOURCE FOR PHOTOGRAPHIC CONTACT PRINTERS
RADC-TDR-64-120 N64-25232 17-15

DEACTIVATION OF NEON METASTABLES BY INELASTIC COLLISIONS WITH HYDROGEN
AFOSR-64-0571 N64-25742 17-19

RESONANCES IN ELASTIC SCATTERING CROSS SECTION OF ELECTRONS ON HELIUM, NEON, KRYPTON, AND XENON
TR-24 N64-27792 19-23

SPUTTERING OF METEORITES BY POSITIVE HELIUM, NEON, AND ARGON IONS N64-28302 20-23

ENERGY LOSS IN FAST IONS OF RARE GASES AFTER COLLISION WITH HELIUM AND NEON ATOMS
NASA-TT-F-8941 N64-30835 22-11

POST-LUMINESCENCE OF HYDROGEN IMPURITY IN HELIUM OR NEON PLASMA EXCITED IN PULSES
NASA-TT-F-8959 N64-30852 22-24

IONIZATION CROSS SECTIONS FOR NEUTRAL HELIUM ATOMS ON IMPACT WITH HELIUM, NEON AND NITROGEN
N64-32384 23-11

STATIC MAGNETIC FIELD EFFECTS ON CHARACTERISTICS OF HELIUM-NEON LASER
PIBMRI-1222-64 N64-33004 24-23

NEON 19
BETA DECAY ASYMMETRY PARAMETERS FOR NEON-19 AND NUCLEAR MAGNETIC DIPOLE MOMENT FOR NEON-19 AND FLUORINE
UCRL-11169 N64-18985 11-23

NEOPRENE
CF SYNTHETIC RUBBER
TAIL SECTION DESIGN, DEVELOPMENT OF NEOPRENE AND NATURAL LATEX COMPOUNDS, AND ENVIRONMENTAL TESTING FOR DUAL PURPOSE FAST RISE BALLOONS
AD-602760 N64-29710 21-04

NEOPRENE ELASTOMERS FOR BALLOON FABRICATION
REPT.-1 N64-29922 21-19

NEOPRENE PROTECTIVE COATINGS FOR HYDROFOILS
TM-1 N64-32461 23-17

NEOS PROJECT
NEW PROCESSES & FUNDAMENTAL PRINCIPLES FOR DESIGN CONFIGURATION REALIZATION IN MATERIALS - NEOS PROJECT
CAL-NM-1559-P-5 N64-11370 02-17

NEPHANALYSIS
TIROS SATELLITE CLOUD PHOTOGRAPHS AND NEPHANALYSES IN NUMERICAL WEATHER FORECASTING
NSL-23 N64-19967 12-21

NEPHELITE
PIEZOELECTRIC EFFECT OF NEPHELINE ROCKS - MINERALOGY
JPRS-25126 N64-22739 16-12

NEPHELOMETER
INTEGRATING AND POLAR NEPHELOMETER FOR ATMOSPHERIC SCATTERING MEASUREMENTS IN ULTRAVIOLET REGION
TDR-269/4230-20/-5 N64-18370 10-12

NEPHRITIS
S KIDNEY

NEPTUNE
SPECTROSCOPY OF JUPITER, SATURN, URANUS, AND NEPTUNE - ATMOSPHERIC, THERMAL, AND KINEMATIC PROPERTIES
NASA-CR-53574 N64-18453 10-05

LIBRATION MECHANISM OF CLOSE APPROACHES OF PLUTO TO NEPTUNE - ORBITAL CALCULATIONS FOR FIVE OUTER PLANETS
NWL-1945 N64-32342 23-05

NERNST HEAT THEOREM
S CRYOGENICS
S ENTROPY
S THERMODYNAMICS

NERVA
FLIGHT OPERATIONAL NUCLEAR RADIATION SYSTEMS FOR NERVA N64-14566 06-23

NERVOUS SYSTEM
SA BRAIN
SA CENTRAL NERVOUS SYSTEM
SA CEREBRAL CORTEX
SA CEREBROSPINAL FLUID
SA PSYCHOMOTOR
SA SYNAPSE
CF ARTIFICIAL INTELLIGENCE
NERVE-REFLEX PROCESSES AND HOMEOSTATIC MECHANISMS IN PERMEABILITY CHANGES OF HISTOHEMATIC BARRIERS IN RADIATION SICKNESS
JPRS-21492 N64-10066 01-16

DEVELOPMENT OF SYNAPSES AND CONNECTIONS OF NERVOUS SYSTEM WITH SOMATIC MUSCULAR SYSTEM
JPRS-21415 N64-10595 01-16

NERVOUS SYSTEM DATA - ANALYSIS OF HUMAN BEHAVIOR DURING SPACEFLIGHT N64-10757 02-16

PATHOLOGICAL AND MORPHOLOGICAL CHANGES OF NERVOUS SYSTEM CAUSED BY VIBRATION N64-10781 02-16

VIBRATION STIMULUS TEST OF NEUROMUSCULAR, CENTRAL NERVOUS AND CARDIOVASCULAR SYSTEMS
N64-10782 02-16

FUNCTIONAL AND BEHAVIORAL EFFECT OF IRRADIATION ON NERVOUS SYSTEM N64-10934 02-16

EFFECT OF IONIZING RADIATION ON NERVOUS SYSTEM
JPRS-19284 N64-11067 02-16

IONIZING RADIATION - EFFECT ON NERVOUS SYSTEM AND CHANGES IN NEURAL TISSUE DUE TO IRRADIATION
JPRS-20317 N64-11136 02-16

NERVOUS RESPONSE OF MAN TO INCREASED GRAVITY AND SPACE FLIGHT CONDITIONS - MOBILITY IN PRENATALLY IRRADIATED DOGS
JPRS-17586 N64-11521 03-01

SENSORIMOTOR RESPONSE OF MAN IN EVALUATING WEIGHTS UNDER INCREASED GRAVITY OF ACCELERATION
N64-11523 03-14

POSSIBILITY OF MODELING HUMAN NERVOUS ACTIVITY USING SELF-REGULATORY PROCESSES IN AUTOMATONS - CYBERNETICS
JPRS-22185 N64-11599 03-20

PHYSIOLOGICAL RESPONSE OF NERVOUS SYSTEM COMPONENTS
IPST-985 N64-11946 03-16

EXCRETION RATE OF SODIUM-24 FROM SODIUM CHLORIDE AND CAFFEINE AS FUNCTION OF RATS NERVOUS SYSTEM
N64-12437 04-16

MATHEMATICAL MODEL FOR NERVOUS DEFENSES AGAINST STIMULATION AND INHIBITION N64-12515 04-16

RECORDING OF EFFERENT IMPULSE OF FROG NERVOUS SYSTEM
SAM-TDR-63-66 N64-13869 05-16

ELECTROENCEPHALOGRAPHIC RECORDING OF EFFECTS OF PROFOUND ANOXIA UPON CENTRAL NERVOUS SYSTEM
N64-14585 06-16

REGIONAL METABOLISM AND CIRCULATION OF CEREBRAL CORTEX AND EFFECT ON SELECTIVE VULNERABILITY TO ANOXEMIA N64-14587 06-16

EFFECT OF CARBON DIOXIDE AND ION SHIFTS ON CENTRAL NERVOUS SYSTEM N64-14591 06-16

WATER & ION SHIFTS IN CENTRAL NERVOUS SYSTEM OF FROG - MORPHOLOGY N64-14593 06-16

CENTRAL NERVOUS SYSTEM TISSUE AND CELLULAR PATHOLOGY IN HYPOXEMIC STATE N64-14594 06-16

VULNERABILITY OF CENTRAL NERVOUS SYSTEM TO CARBON MONOXIDE, CYANIDE, AND OTHER POISONING
N64-14595 06-16

PATTERN AND MODE OF DISTRIBUTION OF LESIONS IN CHRONIC CASES OF HYPOXEMIC AND BILIRUBIN ENCEPHALOPATHY N64-14597 06-16

CENTRAL NERVOUS SYSTEM CHANGES OF RHESUS MONKEYS DUE TO ASPHYXIA DURING BIRTH N64-14600 06-16

LIPID PEROXIDES ROLE IN HYPEROXIA EFFECT ON RAT CENTRAL NERVOUS SYSTEM N64-14607 06-16

ENZYME HISTOCHEMISTRY OF NERVOUS SYSTEM
N64-14608 06-16

FUNCTIONAL CAPABILITY OF NEUROMIME NETWORKS FOR USE IN ATTITUDE STABILIZATION SYSTEMS
ASD-TDR-63-549 N64-15083 07-22

DRUGS FOR DISEASES OF CENTRAL NERVOUS SYSTEM
JPRS-23254 N64-15382 07-16

DERIVATIVES OF DIPHENYLMETHANE, PROPANOL, UNSATURATED TERTIARY ALCOHOLS, DIPHENAZIN, AND NOSTYN FOR TREATMENT OF CENTRAL NERVOUS SYSTEM
N64-15383 07-16

FUNCTIONS OF CIRCULATORY, RESPIRATORY, & NERVOUS SYSTEMS IN HUMAN BODY
AMRL-TDR-63-105 N64-16807 08-16

HIGH NERVOUS ACTIVITY AND CONDITIONED REFLEXES
JPRS-23833 N64-17351 09-16

BIOELECTRONICS - HALL EFFECT AND ELECTROMAGNETIC EFFECTS ON NERVOUS SYSTEM
REPT.-63-27 N64-21680 15-16

BIOELECTRIC STIMULATION INSTRUMENT FOR CONTROLLING FUNCTIONS OF NERVE-MUSCULAR SYSTEMS
FTD-TT-62-1777/1 N64-23292 16-20

BIOELECTRIC RECORDING OF NERVOUS SYSTEM RESPONSES
FTD-TT-63-1194/1&2&4 N64-25655 17-16

RHYTHM VARIATIONS OF NEURONS OF RETICULAR FORMATION DURING LATERAL OVERLOADS
NASA-TT-F-230 N64-26784 18-16

ADVANTAGES AND DISADVANTAGES OF AUTOMATION IN STUDYING ACTIVITY OF HIGHER NERVOUS SYSTEMS
JPRS-25861 N64-27066 19-14

INFLUENCE OF GRAVITATIONAL OVERLOAD ON ARTERIAL SYSTEM OF NERVES AT EXTREMITIES
JPRS-25275 N64-27501 19-16

DETECTION OF LABELLED RIBONUCLEIC ACID IN NERVOUS SYSTEM OF WHITE RATS
JPRS-26042 N64-27636 19-16

NEUROLOGIC ASPECTS OF HIGH BAROMETRIC PRESSURE PHENOMENA AND EFFECT OF ATMOSPHERIC CONTAMINANTS UPON NERVOUS SYSTEM ACTIVITY
AD-600259 N64-27693 19-16

IONIZING RADIATION EFFECT ON NERVOUS SYSTEM
FTD-TT-63-582/1&2 N64-28448 20-16

DERIVING THEORY OF RETICULAR FORMATION FROM SWITCHING THEORY, MATHEMATICAL LOGIC, AND NONLINEAR CONTROL THEORY CONSIDERATIONS
ERL-8-0009-622 N64-28916 20-16

CONDUCTION BLOCKAGE OF ISOLATED SCIATIC NERVE OF FROG BY HIGH ENERGY IRRADIATION
N64-29725 21-16

PRE-MOTOR BRAIN SECTIONS IN EYE MOVEMENT CONTROL
N64-30325 22-14

NERVOUS RESPONSE OF BLIND RAT TO STIMULATION BY IONIZING RADIATION
USNRDL-TR-670 N64-31175 22-16

PHYSIOLOGY OF NERVOUS SYSTEMS OF HUMANS & ANIMALS
JPRS-26427 N64-31457 23-16

MECHANISM OF NERVOUS RESPONSES IN LIZARDS
N64-31465 23-16

SPONTANEOUS MOTOR ACTIVITY IN CATS AND ACTIVITY ALTERATION AFTER BILATERAL DESTRUCTION OF CAUDAL NUCLEI N64-31543 23-16

ELECTRICAL PROPERTIES OF NERVE AND MUSCLE FIBERS BY MEANS OF SURFACE EXTRACELLULAR ELECTRODES
N64-31544 23-16

ELECTRODE ATTACHMENT TECHNIQUES FOR EXPERIMENTS IN ELECTROPHYSIOLOGY OF NERVOUS SYSTEM
N64-31546 23-16

PROTEIN EXCHANGE IN NERVOUS SYSTEM
JPRS-26846 N64-32747 24-16

BIOLOGY AND MEDICAL STUDIES - SKIN PERCEPTION, NERVOUS SYSTEM, AND RADIATION SICKNESS
JPRS-26725 N64-32776 24-16

MECHANISM OF OSMORECEPTOR STIMULATION - DETECTION OF OSMOTIC PRESSURE OSCILLATIONS
N64-32777 24-16

SENSITIVITY OF CENTRAL NERVOUS SYSTEM OF RABBIT TO CONTINUOUS ULTRAHIGH FREQUENCY ELECTROMAGNETIC FIELD N64-32782 24-16

NERVOUS SYSTEM SENSITIVITY TO INJURY IN RADIATION THERAPY
JPRS-27289 N64-33975 24-16

NET
GENERAL QUADRATIC MAPPINGS REPRESENTED BY RECTILINEAR TRIANGLE NETS
E-T-G-65-5 N64-11939 03-20

NET SEAT ACCELERATION CHARACTERISTICS DURING GROUND IMPACT
FDFR-TM-63-25 N64-14623 06-06

SOLUTION OF BOUNDARY VALUE PROBLEM FOR ELLIPTIC EQUATIONS BY MEANS OF NETS
FTD-MT-63-329 N64-32168 23-20

NETHERLANDS
DISTRIBUTION OF VERTICAL AIR CURRENTS AND DETERMINATION OF PRECIPITATION ZONES OVER HOLLAND FOR STABLE & UNSTABLE ATMOSPHERIC STRATIFICATIONS
JPRS-19119 N64-11125 02-21

NETWORK
SA CIRCUIT
SA COUPLING NETWORK

SA ELECTRIC NETWORK
SA GRID
SA ITERATIVE NETWORK
SA RC NETWORK
SMALL HIGH SPEED DIGITAL COMPUTER FOR DISTRIBUTING NETWORK CALCULATIONS
JPRS-19794 N64-10833 02-20

ELECTRONIC FREQUENCY FILTERS AND NETWORKS DESIGN - LOW-PASS, HIGH-PASS, BANDPASS, AND BAND-ELIMINATION
TR-62-11 N64-11286 02-09

TRANSFORMERLESS AND CANONICAL INDUCTANCE-CAPACITANCE, RESISTANCE-CAPACITANCE, AND RESISTANCE-INDUCTANCE LINEAR PASSIVE NETWORKS
AFCRL-63-506 N64-12288 03-09

FREQUENCY & TRANSFER CHARACTERISTICS OF TWO-PORT NETWORK N64-12733 04-09

FUNCTIONAL CAPABILITY OF NEUROMIME NETWORKS FOR USE IN ATTITUDE STABILIZATION SYSTEMS
ASD-TDR-63-549 N64-15083 07-22

INTERCALIBRATION OF NETWORK SYSTEMS EMPLOYED IN MONITORING FISSION PRODUCT RADIOACTIVITY IN ATMOSPHERE
NRL-6025 N64-17374 09-21

LATTICE-ORDERED SEMIGROUPS, GRAPHS, AND AUTOMATA - W-NETWORKS
MRC-451 N64-18035 10-20

APPLICATION OF ALGORITHM TO TRANSPORTATION PROBLEM TO MAXIMIZE FLOW THROUGH NETWORK - OPERATIONS RESEARCH N64-18928 11-20

MULTIPLE-OUTPUT BINARY COMBINATIONAL SWITCHING NETWORKS
AFCRL-64-7 N64-19144 11-09

SENSITIVITY ANALYSIS ON MAXIMUM-FLOW NETWORKS
ORC-64-5/RR/ N64-19774 12-20

NETWORK TRANSFORMATION THEORY AND SOLID STATE COMPONENTS IN ACTIVE NETWORKS
NDRE-142/176 N64-20169 13-09

DISTANCE MATRIX AND SYNTHESIS OF N-PORT RESISTIVE NETWORKS
AROD-3298-9 N64-21238 14-09

PULSE-STRETCHING NETWORK USING LINK STRUCTURE
EERL-1 N64-21527 15-09

STATISTICS OF PROBABILISTIC NETWORK - MATHEMATICS
AROD-3298-10 N64-25094 17-20

TOPOLOGICAL NETWORK ANALYSIS AND METHOD OF TREE GENERATION
TR-9 N64-25352 17-20

TUNABLE RESISTANCE-CAPACITANCE NULL NETWORKS
AD-406998 N64-27173 19-09

SATELLITE TRACKING AND DATA ACQUISITION NETWORK /STADAN/ FACILITIES
NASA-TM-X-55026 N64-27258 19-08

ELEMENTARY PROPERTIES OF SCATTERING MATRIX NORMALIZED TO COMPLEX N-PORT LOAD NETWORKS
R-206 N64-27857 19-09

LINEAR GRAPH ANALYSIS OF ACTIVE AND PASSIVE NETWORKS - APPLICATION TO SWITCHING AND COMMUNICATION NETWORKS
R-203 N64-28006 20-09

USE OF SENSITIVITY AS CRITERION IN SYNTHESIS OF ACTIVE NETWORKS
AL-TDR-64-165 N64-28545 20-09

STRIPLINE ALL-PASS NETWORK AS WIDEBAND DISPERSIVE FILTER FOR PULSE COMPRESSION RADAR
AD-421982 N64-31172 22-09

DESIGN, FUNCTIONS, COMPONENTS, AND OPERATION OF SOLOMON PARALLEL NETWORK COMPUTER
REPT.-406A2 N64-32483 23-09

FUNCTIONAL CAPABILITIES OF SOLOMON NETWORK COMPUTER
REPT.-406A2 N64-32619 23-20

APPLICATION OF SOLOMON PARALLEL NETWORK COMPUTER SYSTEM TO DATA PROCESSING PROBLEM AREAS
REPT.-406A2 N64-32620 23-10

DIGITAL SIMULATION OF HOT-POTATO ROUTING IN BROADBAND DISTRIBUTED COMMUNICATIONS NETWORK
RM-3103-PR N64-33227 24-08

BEHAVIOR OF DISTRIBUTED COMMUNICATIONS NETWORKS UNDER LOADING CONDITIONS - MATHEMATICAL MODEL AND DETERMINISTIC EQUATION
RM-3578-PR N64-33228 24-08

DIGITAL DATA COMMUNICATIONS SYSTEM BASED ON DISTRIBUTED NETWORK - TRAFFIC PRECEDENCE AND OVERLOAD - RAND PROJECT
RM-3638-PR N64-33229 24-08

DIGITAL DATA COMMUNICATIONS SYSTEM BASED ON DISTRIBUTED NETWORK - HIGH DATA RATE SWITCHING NODE DESIGN - RAND PROJECT
RM-3763-PR N64-33230 24-08

MULTIPLEXING STATION EQUIPMENT FOR DISTRIBUTED ADAPTIVE MESSAGE BLOCK NETWORK
RM-3764-PR N64-33231 24-08

SECURITY SAFEGUARDS FOR PROPOSED DIGITAL DATA COMMUNICATIONS NETWORK SYSTEM
RM-3765-PR N64-33372 24-08

GEMINI AND AGENA TELEMETRY FORMATS AND NETWORK STATION SYSTEMS FOR MANNED SPACE FLIGHT NETWORK
NASA TM-X-55099 N64-33567 24-08

COMPARISON OF DISTRIBUTED COMMUNICATIONS NETWORK TO HIERARCHIAL SYSTEMS FOR SURVIVABILITY DURING ENEMY ATTACKS AGAINST NODES AND LINKS
RM-3420-PR N64-33596 24-08

NETWORK SYNTHESIS
SYNTHESIS OF NETWORKS FROM SIMPLE ELEMENTS CYBERNETICS
NASA-CR-52251 N64-10090 01-09

SENSITIVITY AND STABILITY IN ACTIVE NETWORK SYNTHESIS
SURI-EE975-6401FR N64-17507 09-09

TIME-DOMAIN SYNTHESIS PROBLEM AND APPLICATION TO ELECTRICAL NETWORK THEORY
AFCRL-64-191 N64-20842 14-20

WAVE PROPAGATION AND DIFFRACTION PHENOMENA IN VARIOUS MEDIA AND NETWORK SYNTHESIS
PIBMRI-1112-63 N64-21503 15-25

LOGICAL DETERMINISM IN NETWORK SYNTHESIS
AL-TDR-64-80 N64-26207 18-20

NETWORK SYNTHESIS FOR STABILIZING GYRO ACCELEROMETER CONTROL LOOP
NASA-CR-58694 N64-29213 21-09

ELECTRIC NETWORK SYNTHESIS THROUGH HYBRID MATRICES
AFCRL-63-568 N64-30959 22-09

CUT AND TRY METHOD FOR SOLVING COMPLICATED NONLINEAR NETWORKS WITH CONSTANT FLUX
E-T-CH-63-2 N64-31163 22-09

NETWORK SYNTHESIS, PHASE LOCKED OSCILLATORS, AND COMPUTER PROGRAMS FOR INTELLIGENCE EFFORT
EDL-M636 N64-32550 23-09

NEUMANN PROBLEM
TWO-DIMENSIONAL DOUGLAS NEUMANN PROGRAM TO HANDLE LIFTING, INFINITE CASCADES
LB-31653 N64-30964 22-03

NEURAL NET
CF ARTIFICIAL INTELLIGENCE
NEURONS & NERVE NETWORKS, INFORMATION CODING &

STORAGE NETWORKS, AND ANALYZERS & PERCEPTORS - CYBERNETICS
JPRS-18372 N64-10759 02-16

MODELING OF AUTOMATIC CONTROL SYSTEMS AND NEURAL NETS
JPRS-25097 N64-24711 17-06

PERCEPTRON APPLICATIONS IN NEURAL NET THEORY AND BIOSIMULATION
REPT.-4 N64-32860 24-20

NEURISTOR
ELECTRICAL MODEL OF NEURISTOR WITH ENERGY SOURCE, STORAGE DEVICE AND NONLINEAR DISCHARGING RESISTOR
JPRS-23046 N64-14527 06-09

NEUROLOGY
SA DYSBARISM
CF PHYSIOLOGY
HISTOLOGICAL CORTICAL NEURON REGENERATION VERSUS CORTICAL ELEMENT DISPLACEMENT AFTER BILATERAL OCCIPITAL LOBECTOMY - NEUROLOGY
JPRS-22690 N64-13086 04-16

CYBERNETIC RELATION TO SCIENCE AND TECHNOLOGY, NEUROLOGY, PATHOLOGY, MATHEMATICS, AND PHILOSOPHY
JPRS-23234 N64-14944 06-16

PHARMACOLOGICAL BLOCKING EFFECT OF METHYL DIAZA-BICYCLONONANE DERIVATIVES ON NEUROMUSCULAR ACTIVITY N64-15384 07-16

ORGANIZATION OF NEUROPSYCHIATRIC AIDS IN CITIES
JPRS-23446 N64-15914 07-16

STRUCTURE AND FUNCTIONS OF COMPONENTS OF BRAIN - NEURONS, VASCULAR CAPILLARY NETWORK, NEUROGLIA, & CEREBROSPINAL FLUID
IPST-990 N64-22203 15-16

NEUROPHYSIOLOGICAL ANALYSIS OF MECHANICAL, INTEGRATED FUNCTIONS OF ANIMAL MOTOR SYSTEM
IPST-1014 N64-22232 15-16

NEUROLOGIC ASPECTS OF HIGH BAROMETRIC PRESSURE PHENOMENA AND EFFECT OF ATMOSPHERIC CONTAMINANTS UPON NERVOUS SYSTEM ACTIVITY
AD-600259 N64-27693 19-16

EQUIPMENT FOR COMPLEX NEUROLOGICAL-PHYSIOLOGICAL INVESTIGATION OF CENTRAL NERVOUS SYSTEM
JPRS-26316 N64-28426 20-15

NEURON
ELECTRON MICROSCOPIC STUDY OF EARLY CHANGES IN NEURONS DUE TO HYPOXIDOSIS AND ULTRASTRUCTURAL ASPECTS OF NEURONAL NECROSIS IN CEREBRAL CORTEX N64-14592 06-16

BINAURAL INTERACTION IN ACCESSORY SUPERIOR OLIVARY NUCLEUS OF CAT - ELECTROPHYSIOLOGICAL STUDY OF SINGLE NEURONS
MIT-TR-416 N64-18062 10-16

GLIAL AND OTHER NONNEURONAL CELL CONTROL OF NEURON ACTIVITY - RETINA N64-18832 11-16

MATHEMATICAL MODELS OF NEURAL ACTIVITY N64-18835 11-16

BIOPHYSICS OF POLYMERS, NUCLEIC ACIDS, AND BRAIN NEURONS
JPRS-24261 N64-19437 12-16

MATHEMATICAL METHOD FOR INVESTIGATING IMPULSE ACTIVITY OF CENTRAL NEURONS OF BRAIN N64-19440 12-16

NUCLEAR MEMBRANE STRUCTURE OF NERVE CELL
JPRS-24607 N64-20233 13-16

STRUCTURE AND FUNCTIONS OF COMPONENTS OF BRAIN - NEURONS, VASCULAR CAPILLARY NETWORK, NEUROGLIA, & CEREBROSPINAL FLUID
IPST-990 N64-22203 15-16

NEURAL MECHANISMS FOR RESPONSE OF MIDDLE EAR MUSCLES
REPT.-1128 N64-25125 17-16

RHYTHM VARIATIONS OF NEURONS OF RETICULAR FORMATION DURING LATERAL OVERLOADS
NASA-TT-F-230 N64-26784 18-16

REACTION OF NEURONS OF VESTIBULAR NUCLEI TO STIMULATION OF VESTIBULAR APPARATUS THROUGH PASSIVE VERTICAL MOTION OF ANIMALS
JPRS-25896 N64-27323 19-16

COMPUTER ALGORITHM FOR ANALYZING IMPULSE ACTIVITY OF CENTRAL NEURONS N64-31538 23-16

NEURON TRANSMISSION
NEURON TRANSMISSION IN HUMAN BRAIN AND CYBERNETIC DESIGN OF PERCEPTRON - DATA PROCESSING ELECTRONIC CEREBRAL MACHINE - BOOK REVIEW
JPRS-21805 N64-10380 01-01

NEUTRALIZATION
CF CHEMICAL REACTION
NEUTRALIZATION OF ION BEAM WITH ELECTRONS IN MAGNETIC FIELD
FTD-TT-64-176/1&4 N64-23431 16-24

TWO DIMENSIONAL COMPUTER EXPERIMENTS ON ION BEAM NEUTRALIZATION
AIAA PAPER-64-698 N64-28367 20-27

NEUTRINO
RELATIONSHIP BETWEEN NEUTRINOS AND ASTRONOMY
JPRS-18605 N64-10576 01-05

MUON FLUX LEAVING EARTH SURFACE AFTER PRODUCTION BY COSMIC RAY NEUTRINOS
NEVIS-115 N64-14048 05-23

CORRELATION OF FREQUENCY OF OCCURENCE OF SUPER-NOVAE WITH THEORIES OF MASS LOSS AND NEUTRINO EMISSION FROM RED GIANTS N64-15310 07-05

NEUTRINO EXPERIMENTS, INTERACTIONS, BEAMS, AND PARTICLE DECAY
CERN-63-37 N64-15501 07-23

NEUTRINO EXPERIMENTS - VECTOR BOSONS, MUON & ELECTRON CONVERSION, AND NEUTRAL CURRENTS N64-15502 07-23

VECTOR BOSON PRODUCTION AND DECAY - NEUTRINO EXPERIMENTS N64-15503 07-23

NEUTRINOS FROM PIONS AND KAONS PRODUCED BY PROTONS HITTING BERYLLIUM TARGET N64-15504 07-23

SPARK CHAMBER NEUTRINO EXPERIMENTS N64-15505 07-23

BUBBLE CHAMBER NEUTRINO EXPERIMENTS - PION & MUON PRODUCTION AND BOSON MASS DETERMINATION N64-15506 07-23

NEUTRINO FLUX CALCULATIONS N64-15508 07-23

NEUTRINO SPECTRA FROM TWO-BODY DECAY OF RELATIVISTIC PARENTS N64-15509 07-23

MAGNETIC SPARK CHAMBER - NEUTRINO DETECTION, LEPTON CONSERVATION, & VECTOR BOSON REDUCTION SIGNATURES N64-15510 07-23

FREQUENCIES OF EVENTS AND EVALUATION OF DATA IN SPARK CHAMBER EXPERIMENTS - NEUTRINO SPECTRUM N64-15512 07-23

CALCULATION OF HIGH ENERGY NEUTRINO INTERACTIONS - CROSS SECTIONS & LIFETIMES AND VECTOR BOSON DECAY INTO NEUTRINO & ANTINEUTRINO N64-15513 07-23

ELASTIC NEUTRINO INTERACTIONS - NEUTRINO-NEUTRON INTERACTION N64-15514 07-23

NEUTRINO EXPERIMENTS - ELASTIC INTERACTIONS - BUBBLE CHAMBER AND SPARK CHAMBER TRACKS N64-15515 07-23

NEUTRINO EVENT EXPERIMENT USING SPARK CHAMBER
BNL-787 /T-300/ N64-15560 07-23

CROSS SECTIONS FOR ELASTIC NEUTRINO AND ANTI-NEUTRINO SCATTERING ON ELECTRONS AND ABSORPTION ON PROTON
LAMS-3013 N64-17239 09-23

BOSON THEORY OF WEAK INTERACTION - NEUTRINO EXPERIMENTS
NUP-64-4 N64-21730 15-23

SUPERNOVAE, NEUTRINOS, AND NEUTRON STARS - FINAL STAGE OF STELLAR EVOLUTION N64-22079 15-29

EVOLUTION WITH NEUTRINO LOSS OF MASSIVE STAR UNTIL ONSET OF CARBON BURNING
NASA-RP-189 N64-22090 15-29

SUPERNOVAE, NEUTRINOS & NEUTRON STARS
NASA-TN-D-2112 N64-22572 15-05

NUCLEAR PHYSICS - DETECTION OF SOLAR NEUTRINOS N64-25170 17-28

WEAK INTERACTIONS OF VARIOUS COMBINATIONS OF MESONS, POSITRONS, NEUTRINOS, PROTONS, AND NEUTRONS
CERN-64-26 N64-26587 18-23

CONFERENCE ON COSMIC RAYS AND NEUTRINOS
JPRS-27105 N64-33059 24-28

REDUCING MUON SHIELD THICKNESS - NEUTRINO FLUXES WITHOUT FOCUSING AND WITH IDEAL FOCUSING
MURA-698 N64-33758 24-23

NEUTRON
SA FAST NEUTRON
SA SLOW NEUTRON
SA THERMAL NEUTRON
CF ELEMENTARY PARTICLE
AEC CROSS-SECTION MEASUREMENT PROGRAM - NEUTRON ACCELERATOR AND PHYSICS
WASH-1044 N64-10271 01-01

TRAPPED ELECTRON FLUX FROM BOMB NEUTRON DECAY - FLUX CALCULATIONS
NASA-TM-X-51055 N64-10295 01-23

COMPUTER PROGRAM FOR EPITHERMAL NEUTRON CAPTURE PROBABILITY FOR INFINITE PLANE LATTICES
UCRL-7023 N64-11094 02-23

NEUTRON PHYSICS PROGRAM - REACTOR PHYSICS, CRITICAL EXPERIMENTS, SHIELDING, COMPUTER PROGRAM, RADIATION DETECTOR, & WATER DESALTING
ORNL-3499, VOL. 1 N64-11472 03-23

AGE OF FISSION NEUTRONS TO INDIUM RESONANCE ENERGY IN WATER
NAA-SR-8621 N64-11956 03-23

NEUTRON PHYSICS - RADIATION SHIELDING, SECONDARY RADIATION, & RADIATION DETECTORS
ORNL-3499, VOL. 2 N64-12531 04-01

NEUTRON LIFETIME OF CADMIUM AND ZINC AT DIFFERENT ENERGY STATES - ZERO-FIELD HYPERFINE INTERVAL MEASUREMENTS
AD-424139 N64-14043 05-23

NEUTRON PROPERTIES, GAMMA-RAY SPECTRA, CAPTURE GAMMA RAYS, AND THE FISSION PROCESS - NUCLEAR PHYSICS WITH REACTOR NEUTRONS
ANL-6797 N64-15390 07-23

ELASTIC NEUTRINO INTERACTIONS - NEUTRINO-NEUTRON INTERACTION N64-15514 07-23

YOGI-N - MONTE CARLO COMPUTER PROGRAM WRITTEN IN FORTRAN II FOR CALCULATION OF NEUTRON ABSORPTION IN RECTANGULAR & CYLINDRICAL SYSTEMS
UCRL-7630 N64-15827 07-20

NEUTRON ATTENUATION IN NATURAL LITHIUM HYDRIDE SHIELDS
NAA-SR-9364 N64-16127 08-23

COSMIC-RAY NEUTRON BACKGROUND MEASUREMENT N64-17110 09-28

TURBO - IBM COMPUTER CODE FOR SOLUTION TO NEUTRON DIFFUSION EQUATIONS
WCAP-6059 N64-17264 09-20

LOUISE III - FORTRAN IBM 7090 PROGRAM FOR CALCULATING CRITICALITY CONSTANT & CRITICAL FLUX OF MULTIREGION REACTOR - NEUTRON DIFFUSION CODE
EUR-532.E N64-17812 09-20

CARBON 13-OXYGEN 16 ALPHA-NEUTRON REACTION BETWEEN 5.9 AND 8.4 MEV
UR-875-8 N64-17981 10-23

NEUTRON DOSE RATE COMPARISON
LAMS-2977 N64-18002 10-23

DISTORTED WAVE ANALYSIS OF BORON 22-CARBON 12 DEUTRON AND NEUTRON REACTION - ANGULAR DISTRIBUTION N64-18163 10-23

ADHESIVES AND PLASTICS, RADIOACTIVE ELEMENTS, ISOTOPE SEPARATION, ALPHA AND NEUTRON SOURCE DEVELOPMENT, AND ANALYSIS
MLM-1179 N64-18406 10-23

PERIGREE COMPUTER CODE FOR SOLVING ONE- OR TWO-GROUP NEUTRON DIFFUSION EQUATIONS BY FINITE DIFFERENCE METHODS - REACTOR SIMULATION
AECL-1901 N64-18492 10-20

APPLICATION OF DIRECT METHOD OF VARIATIONAL CALCULUS FOR SOLUTION OF BOLTZMANN EQUATION OF NEUTRON DYNAMICS
EUR-217.D, PT. 1 N64-20871 14-20

CRYSTALLINE BINDING EFFECTS ON DOPPLER BROADENING NEUTRON RESONANCE IN TUNGSTEN
BNL-860/T-344/ N64-22225 15-25

NEUTRON THERMALIZATION, BERYLLIUM SCATTERING, AND FAST NEUTRON SHIELDING RESEARCH
GA-4659 N64-22250 15-23

THEORY OF PULSED NEUTRON TECHNIQUE APPLIED TO FAST MULTIPLYING SYSTEMS
EUR-593.E N64-23064 16-23

NEUTRON PENETRATION IN WATER AND IRON-WATER SHIELDS CALCULATED USING P-3 MULTIGROUP PROGRAM
WAPD-TM-448 N64-24049 16-23

EFFECT OF SMALL SOLAR FLARES ON INTENSITY OF NEUTRON COMPONENT OF COSMIC RAYS N64-24434 17-28

UNIVERSAL SPECTROMETER FOR NEUTRON DIFFRACTION EXPERIMENTS
BNL-851/T-337 N64-24710 17-25

SHELL THEORY OF PROTON-NEUTRON INTERACTION IN ATOMIC NUCLEUS
USNRDL-TR-723 N64-25213 17-23

FINAL STATE WAVE FUNCTIONS OF DEUTERON PLUS NEUTRON OR DINEUTRON PLUS PROTON IN NUCLEAR REACTION
RR-TR-64-4 N64-25217 17-23

RELATIVE BIOLOGICAL EFFECTIVENESS OF NEUTRONS AND PROTONS
FTD-TT-63-1046/1&4 N64-25455 17-16

WEAK INTERACTIONS OF VARIOUS COMBINATIONS OF MESONS, POSITRONS, NEUTRINOS, PROTONS, AND NEUTRONS
CERN-64-26 N64-26587 18-23

EXTENSION OF OPERATING TEMPERATURE CAPABILITY OF FISSION COUNTERS AND DIRECT CURRENT IONIZATION CHAMBERS - METAL-TO-CERAMIC VACUUM SEALS
GEMP-298 N64-26841 18-15

POLARIZATION OF NEUTRONS FROM CARBON AND NITROGEN CHEMICAL REACTION
UCRL-7676 N64-27043 19-23

SURFACE X-RAY EMISSION FROM NEUTRON STARS
NASA-RP-276 N64-27356 19-05

ACCELERATOR TARGETS DESIGNED FOR PRODUCTION OF MONO- AND POLY-ENERGETIC NEUTRONS
EUR-1815.D,F,E N64-27777 19-23

MECHANISM OF IONIC EXCHANGE OF POTASSIUM AND SODIUM - NATURE OF NEUTRON DISCHARGE
N64-28038 20-16

MONTE CARLO METHODS FOR CALCULATING DEEP PENETRATION OF NEUTRONS IN SHIELDS
N64-28640 20-20

NEUTRON AND CHARGED PARTICLE INDUCED REACTIONS, MOSSBAUER EFFECT INVESTIGATIONS, ATOMIC BEAM STUDIES, AND DECAY OF SHORT-LIVED RADIONUCLIDES
ANL-6879 N64-28726 20-23

DETECTOR FOR MEASURING NEUTRON DOSE RATE INDEPENDENTLY OF NEUTRON ENERGY
AE-132 N64-28858 20-15

MONTE CARLO STUDY OF SECONDARY NEUTRONS PRODUCED IN PROTON SHIELDING - ALUMINUM, POLYETHYLENE, CARBON, AND IRON SLABS
NASA-CR-58493 N64-28934 20-23

HIGH DENSITY BEHAVIOR & DYNAMIC STABILITY OF NEUTRON STAR MODELS N64-29387 21-05

CALCULATION OF PHONON FREQUENCIES IN SODIUM AND COMPARISON WITH NEUTRON DIFFRACTION MEASUREMENTS
TR-18 N64-29543 21-23

DETERMINATION OF LIFETIME OF PROMPT FISSION NEUTRONS
LFEN.16 /ALPHA/ N64-29883 21-23

AGE OF FISSION NEUTRONS TO INDIUM RESONANCE ENERGY
NAA-SR-9503 N64-30034 21-25

NEUTRON SELF-SHIELDING FACTORS FOR MULTIPLE-BODY CONCENTRIC CYLINDER CONFIGURATIONS
NASA-TN-D-1587 N64-30191 21-23

NEUTRON FLUX MONITORS AND THERMOCOUPLES FOR IN-CORE REACTOR MEASUREMENTS
AECL-2033 N64-30641 22-15

ABSOLUTE CROSS SECTIONS FOR SOME NUCLEAR REACTIONS TO NEUTRON BOMBARDMENT N64-30642 22-25

COMPUTER PROGRAM USING MONTE CARLO METHOD FOR REFLECTION AND TRANSMISSION OF GAMMA RAYS AND NEUTRONS IN HOMOGENEOUS AND HETEROGENEOUS SLABS
TO-B-63-73 N64-31251 22-23

APPLICATION OF NEUTRON GENERATORS IN NUCLEAR GEOPHYSICS - GEOLOGICAL EXPLORATION
N64-31777 23-12

NEUTRON GENERATORS - APPLICATIONS IN SCIENCE AND TECHNOLOGY N64-31778 23-23

MINIATURE SEALED-OFF PULSE NEUTRON TUBE TO INVESTIGATE PETROLEUM AND GAS WELLS
N64-31783 23-12

LABORATORY EXPERIMENTS ON APPLICATION OF PULSE NEUTRON SOURCE IN WELL LOGGING - SCINTILLATION DETECTORS N64-31790 23-12

APPLICATION OF PULSE NEUTRON GENERATOR TO DETERMINE WATER-OIL CONTACT - DENSITY OF THERMAL NEUTRONS N64-31794 23-12

FOURIER TRANSFORM METHOD FOR CALCULATING NEUTRON AGE VALUES FOR HOMOGENEOUS, NONMULTIPLYING MEDIUM
GA/PHYS/63-7 N64-31918 23-23

COSMIC RADIATION INTENSITY DATA - BIHOURLY NEUTRON AND MESON INTENSITY N64-32020 23-12

CRYSTAL STRUCTURE OF DISODIUM NITROSO HYDROXYRUTHENATE HYDRATE BY NEUTRON DIFFRACTION
ANL-6855 N64-32290 23-07

MONTE CARLO COMPUTER PROGRAM FOR ESTIMATING EPITHERMAL NEUTRON CAPTURE RATES IN RECTANGULAR AND 60-DEGREE PARALLELOGRAM GEOMETRY
WAPD-TM-437 N64-32468 23-20

FOUR-GROUP NEUTRON DIFFUSION THEORY MODEL FOR PLUM BROOK REACTOR
NASA-TN-D-2210 N64-32838 24-10

NEUTRON INTERACTING ARRAYS - HOMOGENEOUS URANIUM SOLUTION AND URANIUM METAL FUEL ELEMENTS
K-1619 N64-33009 24-23

RELATIVE NEUTRON ABSORPTION RATES AND X-RADIATION USED FOR INSPECTION OF THICKNESS, DETECTION OF HYDROGEN, BORON, & LITHIUM, AND RADIOGRAPHIC DISCRIMINATION IN HEAVY MATERIALS
ANL-6846 N64-33235 24-23

DETERMINATION OF NEUTRON FIELDS USING HELIUM-3 SOLID STATE SPECTROMETER
BRL-1505 N64-33350 24-23

NEUTRON CAPTURE THERAPY - MEDICAL APPLICATION
ANL-6910 N64-33962 24-23

NEUTRON ACTIVATION
NEUTRON ACTIVATION ANALYSIS OF RARE EARTH ELEMENTS BETA DECAY, GAMMA RAY SPECTROSCOPY, & ION EXCHANGE SEPARATION
JPRS-18861 N64-10645 01-18

CALIBRATION OF ARGON GAS NEUTRON ACTIVATION SAMPLING DEVICE
NASA-RP-97 N64-11951 03-15

TRACE IMPURITIES IN ORGANIC MATERIALS DETERMINED BY NEUTRON ACTIVATION ANALYSIS
EUR-432.F N64-12475 04-23

ATOMIC ABSORPTION SPECTROMETRY & NEUTRON ACTIVATION ANALYSIS OF OILS
TRECOM-TR-63-55 N64-14170 05-06

NONDESTRUCTIVE NEUTRON ACTIVATION ANALYSIS TO ESTABLISH ORIGIN OF MICROSCOPIC SPHERULES
NASA-CR-55440 N64-14902 06-23

QUANTITATIVE NEUTRON ACTIVATION ANALYSIS OF LARGE SAMPLES IN NONUNIFORM NEUTRON FLUX
UCRL-7616 N64-16548 08-23

COMPUTER PROGRAM FOR QUANTITATIVE ANALYSIS BY NEUTRON ACTIVATION AND GAMMA-RAY SPECTROMETRY
EUR-531.E N64-16925 09-20

TRACE ELEMENT DETERMINATION IN NATURAL MATERIALS BY NEUTRON ACTIVATION ANALYSIS
U/50/50 N64-17369 09-07

INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS OF METEORITIC AND TERRESTRIAL SPECIMENS AND SEPARATE CHONDRULES TO CHART ABUNDANCES OF SEVEN ELEMENTS
NASA-CR-53779 N64-19601 12-05

INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS OF ELEMENT ABUNDANCE IN METEORITES
NASA-CR-53776 N64-19602 12-05

IBM 704 COMPUTER PROGRAMS FOR NEUTRON ACTIVATION OF FOILS IN SLAB GEOMETRY
ANL-6822 N64-19995 12-20

NEUTRON ACTIVATION PROPERTIES OF NUCLEAR REACTOR STRUCTURES FOR SPACE FLIGHT
RM-227 N64-25922 18-23

NEUTRON ACTIVATION ANALYSIS PROCEDURES FOR DETERMINATION OF OXYGEN IN POTASSIUM
NASA-CR-54099 N64-27382 19-07

NEUTRON AND REACTION CROSS SECTIONS, NEUTRON ACTIVATION ANALYSIS OF VARIOUS ELEMENTS, AND CARBON AND NITROGEN SURFACE CONTAMINATION OF BERYLLIUM SAMPLES
ASD-TDR-62-1038, PT. 3, VOL. I N64-27917 20-07

NEUTRON ACTIVATION ANALYSIS TECHNIQUES AND FACILITIES TO DETERMINE TRACE ELEMENTS
EUR-1601.E N64-29777 21-23

CONFERENCE ON TRENDS IN NEUTRON ACTIVATION

ANALYSIS N64-32500 23-07

ELEMENTAL ABUNDANCES IN METEORITIC AND TERRESTRIAL MATTER - INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS
NASA-CR-59018 N64-32896 24-12

COMPUTER PROGRAM FOR ANALYSIS OF GAMMA RAY SPECTRA FOR IDENTIFICATION OF RADIOISOTOPES IN NEUTRON ACTIVATION ANALYSIS OF METEORITES
NASA-CR-58970 N64-33205 24-23

NEUTRON BEAM
CF PARTICLE BEAM
EFFICIENCY OF NEUTRON BEAM IN PULSED FAST REACTOR
EUR-490.E N64-14709 06-23

NEUTRON BEAM ENERGY DETERMINED BY DIFFUSION THROUGH LIQUID NITROGEN AND OXYGEN
FTD-MT-63-82/1&2&3&4 N64-18677 11-23

PRODUCTION OF POLARIZED NEUTRON BEAM AT REACTOR ISPRA I BY REFLECTION OF SLOW NEUTRONS ON MAGNETIZED MIRROR
EUR-538.E N64-21208 14-23

NEUTRON SHIELD ENCLOSURE FOR NEUTRON RADIOGRAPHIC INSPECTION OF ENCAPSULATED, IRRADIATED FUEL MATERIAL
ANL-6799 N64-22058 15-17

NEUTRON CROSS SECTION
DOPPLER DISTORTION OF TOTAL, FISSION, CAPTURE, AND SCATTERING NEUTRON CROSS SECTIONS OF PLUTONIUM 241
IDO-16954 N64-16941 09-23

DETERMINATION OF CROSS SECTION FOR OXYGEN 16-OXYGEN 15 GAMMA-NEUTRON REACTION - PHOTONEUTRON RESONANCES
IS-676 N64-18395 10-23

NEUTRON CROSS SECTION & GROUP CONSTANTS FOR ELEMENTS AND ISOTOPES
HW-73381 SUP. 1 N64-20635 13-23

CHEMICAL ENGINEERING, NUCLEAR FUELS, NEUTRON CROSS SECTIONS, THERMOELECTRICITY, AND HIGH TEMPERATURE MATERIALS
ANL-6875 N64-25521 17-01

COMPILATION OF NEUTRON CROSS SECTIONS FOR OXYGEN AND NITROGEN PERTINENT TO RADIATION SHIELDING AND NEUTRON TRANSPORT STUDIES
NARF-62-17T N64-28906 20-23

DATA ON TOTAL NEUTRON & REACTION CROSS-SECTIONS AT 14 MEV
ASD-TDR-62-1038, PT. 3, V. II N64-30924 22-23

NEUTRON CROSS SECTIONS FOR POLYETHYLENE SHIELDING AND FOIL DETECTORS
KN-684-64-13 N64-33244 24-23

THERMAL DIFFUSION, ABSORPTION, AND TRANSPORT NEUTRON CROSS SECTIONS FOR WATER, HEAVY WATER, AND BORON
AECL-2072 N64-33266 24-23

NEUTRON DISTRIBUTION
NEUTRON DISTRIBUTION IN CRITICAL SLAB BY MULTIPLE COLLISION METHOD
EUR 479.E N64-14945 06-23

SPACE-ENERGY NEUTRON DISTRIBUTION NEAR BOUNDARY OF THICK URANIUM SHIELD OF FAST REACTOR WITH REFLECTORS BEHIND SHIELD
FTD-TT-63-977/1&2&4 N64-19751 12-23

CALCULATION OF FISSION-SOURCE THERMAL-NEUTRON DISTRIBUTION IN WATER BY TRANSPORT AND DIFFUSION THEORIES - TRANSFUSION METHOD
ORNL-3487 N64-27517 19-23

STATISTICAL ANALYSIS OF NEUTRON DISTRIBUTION IN NEUTRON LOGGING PROBLEMS - BOLTZMANN EQUATION
N64-31796 23-12

NEUTRON FLUX
PROPORTIONAL COUNTERS CONTAINING BORON TRIFLUORIDE FOR DETECTING WEAK NEUTRON FLUXES IN PRESENCE OF GAMMA RADIATION
EUR-300.F N64-10035 01-23

TWIN ISOTHERMAL RESISTANCE BRIDGE CALORIMETER DETERMINATIONS OF URANIUM-235 AND THERMAL NEUTRON FLUX
UCRL-7489 N64-11304 02-23

MATERIAL IRRADIATION AT CRYOGENIC TEMPERATURES - PREPARATION OF TESTING EQUIPMENT AND NEUTRON FLUX MEASUREMENTS
NASA-CR-55044 N64-12030 03-18

FAST-NEUTRON FLUX IN THE ATMOSPHERE
NASA-CR-55374 N64-15306 07-12

QUANTITATIVE NEUTRON ACTIVATION ANALYSIS OF LARGE SAMPLES IN NONUNIFORM NEUTRON FLUX
UCRL-7616 N64-16548 08-23

NEUTRON FLUX MEASUREMENTS IN RADIATION FIELDS USING FOIL DETECTORS
NARF-62-4T N64-19394 12-23

NUMERICAL SOLUTION OF NEUTRON TRANSPORT PROBLEMS
LA-2996 N64-19947 12-23

GALERKIN METHOD AND DOUBLE P APPROXIMATION FOR CALCULATION OF THERMAL NEUTRON FLUX
EUR-533.I N64-20874 14-13

ANNOTATED BIBLIOGRAPHY ON NEUTRON FLUX MEASUREMENT
SRB-63-7 N64-22219 15-23

NEUTRON REFLECTION & FLUX VERSUS DEPTH AND NEUTRON DOSE TRANSMISSION VERSUS SLAB THICKNESS FOR ALUMINUM
BRL-1238 N64-26050 18-23

MEASUREMENT OF COSMIC RAY NEUTRON FLUX AT 45-DEG GEOMAGNETIC LATITUDE
AFCRL-64-487 N64-26178 18-28

NEUTRON FLUX DISTRIBUTIONS MEASURED IN SYSTEM OF LARGE SPHERICAL CAVITY IN WATER
NASA-CR-54110 N64-26349 18-23

THRESHOLD DETECTOR MEASUREMENT OF FISSION NEUTRON FLUXES AND SPECTRA
AECL-1994 N64-28106 20-23

VARIATIONS OF NEUTRON FLUX LEVEL AND GAMMA RADIATION DOSE BETWEEN AXIS AND SKIN OF AGENA D WITH SNAP-10 A AND SNAP-2 POWER SYSTEMS
QPR-3 N64-30539 22-06

PROGRAM STATEST - FORTRAN PROGRAM USING STATISTICAL ESTIMATION TO CALCULATE NEUTRON FLUX IN ANISOTROPICALLY SCATTERING MEDIA
ORNL-3715 N64-33900 24-23

NEUTRON IRRADIATION
COMBINED ACTION OF NEUTRON IRRADIATION AND ELEVATED TEMPERATURE ON ANIMALS
JPRS-20379 N64-11433 02-16

CHARACTERISTICS OF LIVERMORE POOL-TYPE REACTOR FAST NEUTRON IRRADIATION FACILITY
UCRL-7513 N64-11582 03-23

HEMATOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL RESPONSE FROM MASSIVE DOSES OF MIXED GAMMA AND NEUTRON IRRADIATION IN GOATS
RTD-TDR-63-3077 N64-13827 05-16

EFFECTS OF IMPURITIES & NEUTRON IRRADIATION ON PROPERTIES & STRUCTURE OF POLYCRYSTALLINE & SINGLE CRYSTAL MOLYBDENUM, NICKEL, AND RHENIUM
N64-14227 06-18

SWELLING OF URANIUM UNDER IRRADIATION BY NEUTRONS AND FISSION PRODUCT N64-14228 06-23

NEUTRON IRRADIATION EXPOSURE UNIT DETERMINATION
N64-14233 06-23

ELECTRON TRANSPORT PROPERTIES OF ZONE-REFINED, P-TYPE SILICON DURING PILE NEUTRON IRRADIATION
N64-15117 07-25

ACTIVATION ANALYSIS OF RADIOISOTOPIC NUCLIDES PRODUCED BY NEUTRONS, PROTONS, AND ALPHA & GAMMA RAY REACTIONS
AEET/ANAL/28 N64-15731 07-23

GAMMA-RAY SPECTRA FROM RADIATIVE CAPTURE OF 14 MEV NEUTRONS IN ALUMINUM-27
NIJS-R-420 N64-15913 07-23

STRENGTH OF SPHERICAL AND CYLINDRICAL SHELLS AND EFFECT OF NEUTRON IRRADIATION
FTD-TT-62-719/1&2&4 N64-16058 07-23

RAPID RADIOCHEMICAL SEPARATION OF RADIOISOTOPES WITH SHORT HALF LIVES, AND PRODUCTION BY NEUTRON IRRADIATION OF SHORT-LIVED METASTABLE ISOMERS
NYO-10174 N64-17732 09-07

HIGH ENERGY NEUTRON AND PROTON RADIATION EFFECTS ON LIFESPAN, PERIPHERAL BLOOD, AND RATE OF APPEARANCE OF TUMORS IN RATS
FTD-TT-63-1049/1&2&4 N64-19220 11-16

SEARCH INSTRUMENTS FOR NEUTRONS AND GAMMA RAYS FROM SOLAR SURFACE NUCLEAR REACTIONS
NASA-CR-53828 N64-19617 12-15

MECHANICAL PROPERTIES OF AISI TYPE 347 STAINLESS STEEL AND REACTOR PRESSURE TUBES SUBJECTED TO FAST NEUTRON IRRADIATION
BMI-1657 N64-22102 15-18

DOSE ATTENUATION FOR NEUTRONS STREAMING IN DUCTS OF PROTECTIVE SHELTERS
R-282 N64-23338 16-23

PHYSICAL VALUES FOR GAMMA AND NEUTRON RADIATION DOSAGES
FTD-TT-63-1050/1&2&4 N64-23437 16-16

NEUTRON AND GAMMA RADIATION EFFECTS ON FLIGHT CONTROL SYSTEMS
FDL-TDR-64-30 N64-24091 16-06

NEUTRON AND GAMMA RADIATION EFFECTIVENESS IN PRODUCING PHOTOCONDUCTIVITY IN ORGANIC DIELECTRIC MATERIALS
SCR-670 N64-24893 17-23

TRIODE AMPLIFIERS - OUTPUT VOLTAGE TRANSIENTS INDUCED BY PULSED NEUTRON AND GAMMA RADIATION
TR-1197 N64-26249 18-09

NEUTRON TISSUE DOSE BEHIND REACTOR SHIELDING
FTD-TT-63-1047/1&4 N64-26640 18-15

NEUTRON IRRADIATION EFFECTS ON FLOW AND FRACTURE BEHAVIOR OF ZIRCALOY-2
HW-82102 N64-26743 18-18

ENERGY AND ANGULAR DISTRIBUTION OF RADIATION EMERGING FROM TEST SLABS IRRADIATED WITH NARROW BEAM OF NEUTRONS AND GAMMA RAYS
NARF-62-16T N64-28907 20-23

NEUTRON IRRADIATION EFFECTS ON PROPERTIES OF STRUCTURAL MATERIALS
NRL-MR-1393 N64-29660 21-18

EFFECT OF IONIZING RADIATION ON BIOCHEMISTRY OF MAMMALIAN TISSUE - PHARMACOLOGICAL & TOXICOLOGICAL AGENTS FOR RADIATION PROTECTION - EFFECT OF GAMMA & NEUTRON IRRADIATION ON ANIMAL LIFESPAN
QPR-52 N64-29872 21-16

NUCLEAR REACTION PRODUCTS IN SOLAR FLARE REGIONS - GAMMA RAYS AND NEUTRON N64-30301 22-21

NEUTRON SCATTERING
CF INCOHERENT SCATTERING
CF INELASTIC SCATTERING
CF RESONANCE SCATTERING
OPTICAL MODEL ANALYSIS OF INELASTIC SCATTERING OF NEUTRONS BY HEAVY NUCLEI
BNL-818/T-317/ N64-11643 03-23

NEUTRON SCATTERING IN FREDHOLM INTEGRAL EQUATIONS FOR TRANSPORT SOLUTION OF MONOENERGETIC CRITICAL PROBLEMS
ANL-6787 N64-11790 03-27

SOLUTION OF INITIAL VALUE PROBLEM INVOLVING TIME-DEPENDENT NEUTRON TRANSPORT EQUATION IN FINITE SLAB
TID-18884 N64-13951 05-23

EQUATIONS AND PROGRAMS FOR SOLUTIONS OF NEUTRON GROUP DIFFUSION EQUATIONS BY SYNTHESIS APPROXIMATIONS - COMPUTER PROGRAMMING
WAPD-TM-377 N64-15393 07-20

INELASTIC SCATTERING OF MONOENERGETIC NEUTRONS IN ZIRCONIUM HYDRIDE, POLYETHYLENE, LIQUID METHANE, AND LIQUID PARA-HYDROGEN
GA-4434 N64-16128 08-23

SLOW NEUTRON SCATTERING IN ALLOYS N64-17042 09-23

TURBO - IBM COMPUTER CODE FOR SOLUTION TO NEUTRON DIFFUSION EQUATIONS
WCAP-6059 N64-17264 09-20

MONTE CARLO ANALYSIS OF NEUTRON SCATTERING FROM SMALL VOLUME OF CARBON, BERYLLIUM, ALUMINUM, IRON, AND POLYETHYLENE
NAA-SR-9418 N64-17290 09-23

LOUISE III - FORTRAN IBM 7090 PROGRAM FOR CALCULATING CRITICALITY CONSTANT & CRITICAL FLUX OF MULTIREGION REACTOR - NEUTRON DIFFUSION CODE
EUR-532.E N64-17812 09-20

ANISOTROPIC SCATTERING APPROXIMATIONS IN BOLTZMANN NEUTRON TRANSPORT EQUATION
LA-3051 N64-20826 14-23

IBM 7090 COMPUTER CODE USING MONTE CARLO METHOD /FANTASIA II AND TRIPROD II/ FOR NEUTRON TRANSMISSION THROUGH LAMINATED SLABS
ML-TDR-64-52 N64-24387 17-23

YIELD OF ELASTICALLY SCATTERED NEUTRONS FROM NUCLEAR REACTION CARBON 12 /N,N/ CARBON 12
ORNL-3615 N64-25547 17-23

INELASTIC SCATTERING OF COLD NEUTRONS MEASURED ON VANADIUM HYDRIDE
EUR-522.D N64-26067 18-23

NEUTRON SCATTERING ON GAS, LIQUID, AND SOLID MOLECULAR SYSTEMS
FTD-TT-64-196/1&2 N64-29592 21-23

SPECTRAL ANALYSIS OF TRANSPORT KERNEL FOR ANISOTROPIC NEUTRON SCATTERING IN FINITE SLABS
RM-3807-PR N64-31176 22-23

MODIFIED LEGENDRE POLYNOMIAL APPROXIMATIONS TO NEUTRON TRANSPORT EQUATION FOR SLAB GEOMETRIES
DTMB-1814 N64-31298 22-23

ANGULAR DISTRIBUTION OF FAST NEUTRONS SCATTERED THROUGH POLYETHYLENE-SLAB SHIELDING
NARF-63-5T N64-31300 22-23

MONTE CARLO METHOD PENETRATION STUDY OF NEUTRON SCATTERING IN SHIELDING DUCTS
NARF-63-3T N64-31301 22-23

PORTABLE NEUTRON GENERATORS IN NUCLEAR GEOPHYSICS - RADIATION DETECTOR, INELASTIC NEUTRON SCATTERING, NUCLEAR RADIATION, AND THERMAL NEUTRONS
FTD-MT-63-283 N64-31776 23-12

INELASTIC NEUTRON SCATTERING AND INDUCED RADIOACTIVITY FOR CARBON QUALITY APPRAISAL N64-31791 23-12

COMPUTER PROGRAM FOR CALCULATING SLOW NEUTRON SCATTERING CROSS SECTION WITH APPLICATION TO WATER
IDO-16984 N64-32183 23-23

NEUTRON SOURCE
TRAPPED RADIATION AND IONOSPHERIC PERTURBATIONS DUE TO FISSION NEUTRON SOURCE - NUCLEAR TESTING
D1-82-0241 N64-10150 01-23

ANISOTROPY OF THERMAL NEUTRON DIFFUSION CONSTANT IN POLYMETHYL METHACRYLATE WITH EMPTY CHANNELS
NIJS-R-413 N64-11398 02-23

ENERGY DEPOSITION DISTRIBUTION IN WATER-FILLED PHANTOM DUE TO 14-MEV & POLONIUM-BERYLLIUM
N64-12547 04-23

CONDUCTIVE ADHESIVES, RADIOACTIVE ISOTOPES AND ELEMENTS, ALPHA AND NEUTRON SOURCES, AND CALORIMETRY
MLM-1176 N64-18083 10-07

CONDUCTIVE ADHESIVES, HALF-LIVES AND SEPARATION OF RADIOACTIVE ISOTOPES, NEUTRON AND ALPHA SOURCES, AND LOW LEVEL TRITIUM COUNTING
MLM-1177 N64-18405 10-23

INTENSE NEUTRON GENERATOR CAPABLE OF GENERATING HIGH THERMAL FLUX BASED ON PROTON ACCELERATOR
AECL-2059 N64-30460 22-10

PORTABLE SEALED-OFF PULSE NEUTRON SOURCE WITH SEALED-OFF TUBE N64-31786 23-23

LABORATORY EXPERIMENTS ON APPLICATION OF PULSE NEUTRON SOURCE IN WELL LOGGING - SCINTILLATION DETECTORS N64-31790 23-12

NEUTRON GENERATOR APPLICATIONS - ROCK DENSITY READINGS, INSTRUMENT DEVELOPMENT, RADIATION DETECTORS, AND NUCLEAR LOGGING N64-31792 23-12

NEUTRON SPECTROMETRY
LIVERMORE POOL TYPE REACTOR SINGLE-CRYSTAL NEUTRON SPECTROMETER AND MEASUREMENTS
UCRL-7611 N64-16673 08-23

NEUTRON SPECTRUM
NEUTRON AND PROTON SPECTRA FROM TARGETS BOMBARDED BY 160-MEV PROTONS N64-12548 04-23

PROTON-RECOIL SPECTROMETERS FOR MEASURING NEUTRON AND PROTON ENERGY SPECTRA FROM 10 TO 450-MEV
N64-12553 04-23

APPLICATION OF SLOP CODE TO UNFOLDING NEUTRON SPECTRA MEASURED WITH SCINTILLATORS
N64-12556 04-23

THRESHOLD DETECTION TECHNIQUE FOR MEASURING NEUTRON SPECTRA TO 30-MEV
UCRL-10732 N64-13211 04-23

NEUTRON SPECTRA FROM BOMBARDMENT OF GOLD BY OXYGEN-16 IONS
UCRL-11088 N64-14416 06-23

DIGITAL COMPUTER CODING METHODS FOR THERMAL NEUTRON SPECTRA
BNL-821/T-319/ N64-14721 06-23

LUNAR TEMPERATURE DETERMINATIONS, HIGH LATITUDE NEUTRON SPECTRUM, GEOMAGNETIC MICROPULSATIONS, AND GEOPHYSICAL EFFECTS OF NUCLEAR TESTS
N64-20503 13-12

FAST NEUTRON SPECTRUM AND DOSIMETRY OF REACTOR MEDICAL THERAPY FACILITY BEAM
MITNE-47 N64-25472 17-16

HELIUM 3 SPECTROMETER FOR NEUTRON SPECTRA AND ATTENUATION MEASUREMENTS
BRL-MEMO-1545 N64-26621 18-25

MEASURING SPECTRAL INDICES OF NEUTRONS BY OSCILLATION METHOD
LFEN-NI.12 /BETA/ N64-29654 21-23

NEUTRON SPECTRA MEASUREMENT BY SEMIAUTOMATIC SCANNING OF RECOIL PROTONS IN PHOTOGRAPHIC EMULSIONS
AWRE-NR-5163 N64-30890 22-15

THERMAL NEUTRON SPECTRUM EFFECTS ON CALCULATIONS FOR GRAPHITE MODERATED LATTICES
NAA-SR-7892 N64-33588 24-23

NEVADA
INCREASED RADIATION IN SOIL, PLANTS, AND ANIMALS IN SOUTHERN NEVADA
UCLA-518 N64-12898 04-16

NEW MEXICO
CONTRIBUTIONS OF NEW MEXICO TO SPACE PROGRAM
N64-11199 02-01

EFFECT OF NEAR MOUNTAIN RANGES ON PERTURBATIONS IN WIND FIELD IN TULAROSA BASIN, NEW MEXICO
ERDA-157 N64-27866 19-21

NEW YORK
DEEP RESISTIVITY MEASUREMENTS IN NORTHERN NEW YORK STATE
AFCRL-63-385 N64-11183 02-12

SIGNIFICANCE OF HALL OF SCIENCE, NEW YORK CITY, IN UNDERSTANDING SCIENTIFIC DISCIPLINES - DEDICATION REMARKS N64-32380 23-01

NEW ZEALAND
ORGANIC COMPOUNDS IN LAKE WATER OF NEW ZEALAND
N64-17595 09-07

NEWCOMB DERIVATIVE
COMPUTATION PROCEDURE FOR BEHAVIOR OF LAPLACE COEFFICIENTS AND NEWCOMB DERIVATIVES - APPLICATION TO PLANETARY DISTURBING FUNCTION
NASA-CR-52537 N64-10437 01-20

CONSTRUCTION OF NEWCOMB OPERATORS ON DIGITAL COMPUTERS FOR DEVELOPMENT OF PLANETARY DISTURBING FUNCTION
NASA-CR-55844 N64-16768 08-05

NEWTON
MOTION OF SOLID BODY NEAR FIXED POINT IN NEWTONIAN FIELD OF FORCES
NH-TRANS-437 N64-14835 06-23

NEWTON THEORY
RELATIONSHIP BETWEEN NEWTONIAN MOTION EQUATIONS AND HARMONIC COORDINATE CONDITIONS OF ZERO ORDER IN EINSTEIN GRAVITATION THEORY
FTD-TT-63-593/1&2&4 N64-29325 21-23

NONNEGATIVE DIFFERENCE ANALOGS OF ELLIPTIC DIFFERENTIAL EQUATIONS
MRC-492 N64-31963 23-20

NICHROME
COLD SWAGING CAPABILITY AND HARDNESS OF DISPERSION STRENGTHENED, EXTRUDED NICHROME-THORIUM OXIDE ALLOYS
PR-4 N64-14632 06-19

EXPLOSION OF ELECTRICAL NICHROME WIRE IN CIRCUITS WITH VARYING INTERNAL RESISTANCE
AD-421985 N64-14692 06-09

INFLUENCE OF ALLOYING ADDITIONS ON TEMPERATURE DEPENDENCE OF ELASTIC MODULUS IN NICKEL & NICHROME ALLOYS N64-17059 09-18

NICKEL
X-RAY ANALYSIS OF SOLUBILITY OF TITANIUM, YTTRIUM, ZIRCONIUM, AND NICKEL IN BERYLLIUM
JPRS-17681 N64-10565 01-18

ISOTHERMAL SINTERING OF POWDERED COPPER, NICKEL, AND IRON UNDER PRESSURE
JPRS-18245 N64-10574 01-18

TENSILE TESTING OF THREADLIKE CRYSTALS OF COPPER, NICKEL, AND COBALT N64-10709 02-25

WELDING OF VARIOUS GRANULATED METALLIC POWDERS - TUNGSTEN, NICKEL, TIN, LEAD, TITANIUM, ALUMINUM AND FERROALLOYS N64-10767 02-12

HYDROSTATIC PRESSING OF COPPER, IRON, NICKEL, AND MOLYBDENUM POWDERS N64-11479 03-17

ELECTRODES FROM CARBON AND POROUS NICKEL FOR THIN FUEL CELLS
AD-425031 N64-12058 03-06

METALLURGY OF NICKEL & ITS ALLOYS
IPST-969 N64-13023 04-18

MOLTEN NICKEL WETTABILITY OF PRESSED POWDERED CARBIDE ALLOYS - NIOBIUM & VANADIUM CARBIDES, AND NIOBIUM & TITANIUM CARBIDES
N64-13699 05-19

ELECTROCHEMICAL STUDY OF IRON AND NICKEL IN SOLID SOLUTION IN POTASSIUM IODIDE
TDR-169/3240-21/TR-1 N64-13762 05-07

ADHESION OF NICKEL, NICKEL-TITANIUM, & NICKEL-CHROMIUM DROPS TO ALUMINUM OXIDE SINGLE CRYSTAL PLAQUES
AMRA-CR-63-01/4 N64-13998 05-19

EFFECTS OF IMPURITIES & NEUTRON IRRADIATION ON PROPERTIES & STRUCTURE OF POLYCRYSTALLINE & SINGLE CRYSTAL MOLYBDENUM, NICKEL, AND RHENIUM
N64-14227 06-18

MICROPLASTIC BEHAVIOR OF POLYCRYSTALLINE NICKEL - DEFORMATION, MICROFLOW STRESS, & DIMENSIONAL STABILITY
SSD-TDR-63-348 N64-14346 06-18

GAMMA-RAY SPECTROMETRIC DETERMINATION OF IRON, COPPER, PHOSPHOROUS, AND NICKEL IN SILICON USING ION-EXCHANGE
AFCRL-63-388 N64-14685 06-23

NUCLEAR REACTIONS IN HEAVY ISOTOPES OF NICKEL
FTD-MT-63-5/1&2&3&4 N64-14827 06-23

NICKEL AND NICKEL ALLOY WELDING - TECHNIQUES, PROCESSES, JOINT CONSTRUCTION, MATERIALS, AND METHODS
JPRS-22945 N64-15675 07-18

DIFFUSION OF CHROMIUM IN NICKEL
AEET/CD/17 N64-15917 07-25

BEHAVIOR OF NICKEL AND SOLID SOLUTIONS OF TITANIUM IN NICKEL AT HIGH TEMPERATURES AND LOW STRAIN RATES N64-17048 09-18

POLARIZATION OF SILVER NUCLEI IN FERROMAGNETIC IRON AND NICKEL METALS
UCRL-11143 N64-17293 09-23

FRICTION MEASUREMENTS OF SOLID SURFACES COVERED WITH SOLID FILMS OF LEAD, NICKEL, AND CHROMIUM
RTD-TDR-63-4272, PT. V N64-17513 09-18

EFFECTS OF SUBSTITUTING COBALT FOR NICKEL ON TENSILE PROPERTIES AND HARDNESS OF AUSTENITIC STAINLESS STEEL
BM-RI-6427 N64-19239 11-18

TITANIUM METALLURGICAL EQUIPMENT USED IN NICKEL PRODUCTION
JPRS-24269 N64-19277 11-18

STRESS-STRAIN STUDIES OF NICKEL, IRON, AND IRON-SILICON ALLOYS WITH DIFFERENT GRAIN SIZES
ARL-63-245 N64-19647 12-18

SPECTROPHOTOMETRIC DETERMINATION OF LOW CONCENTRATIONS OF NICKEL IN THORIUM METAL
Y-1464 N64-20441 13-07

CHEMICAL REACTION OF NICKEL PLATE ON ALUMINUM ALLOYS IN HIGH AND LOW TEMPERATURES AND AQUEOUS FLOW
HW-81196 N64-20835 14-18

ACTIVATION ENERGY AND COEFFICIENTS OF SELF-DIFFUSION IN NICKEL N64-21188 14-18

PHOTOELECTRIC APPARATUS FOR STORING INFORMATION ON NICKEL AND COPPER TAPES
A-51035ARID N64-22495 15-09

ULTRAHIGH STRENGTH NICKEL MARAGING STEEL SOLID PROPELLANT ROCKET MOTOR CASES
NAD-R-401-4 N64-22502 15-34

WETTING AND BONDING BETWEEN METALS AND OXIDES - ALUMINUM OXIDE AND NICKEL SYSTEM
AMRA-CR-63-01/6 N64-22709 15-17

IRON, MAGNESIUM, CALCIUM, AND NICKEL DISTRIBUTION IN MURRAY CARBONACEOUS CHONDRITE
NASA-TM-X-54050 N64-24041 16-18

CESIUM PLASMA DIODE WITH NICKEL EMITTER
LAMS-3086 N64-25195 17-24

GEOMETRY OF TRANSITION METAL DIHALIDES - FLUORIDES OF MANGANESE, COBALT, NICKEL, COPPER, & ZINC
ITR-6 N64-25586 17-19

GRAVIMETRIC DETERMINATION OF NICKEL IN URANIUM ALLOYS WITH DIMETHYLGLYOXIME
LA-3088 N64-25715 17-18

PRECISION TURNING OF SPHERICAL SPECIMENS OF ALUMINUM, NICKEL, AND COPPER
Y-1463 N64-26477 18-17

PROBE CHARACTERISTICS OF ELECTRON AND ION CURRENTS AND ENERGY DISTRIBUTION OF NICKEL ATOMS DURING CATHODE SPUTTERING OF NICKEL BY MERCURY IONS
FTD-TT-64-380/1&2&4 N64-26995 19-23

ENERGY DISTRIBUTION OF NICKEL ATOMS DURING CATHODE SPUTTERING OF NICKEL BY MERCURY ION
N64-26997 19-23

CHROMIUM-NICKEL STEELS WITH TUNGSTEN, MOLYBDENUM, AND TITANIUM FOR GAS TURBINE PARTS
N64-27149 19-18

DISSOCIATION ENERGIES OF DIATOMIC MOLECULES OF TRANSITION ELEMENTS - NICKEL
AMRA-TR-64-11 N64-28669 20-07

INFLUENCE OF PROCESSING FACTORS ON MECHANICAL PROPERTIES OF HEAT-RESISTANT NICKEL-FREE CHROMIUM-MANGANESE STEEL N64-29044 21-18

PERFORMANCE AND RELIABILITY OF INDIRECTLY-HEATED NICKEL MATRIX CATHODES AS ELECTRON SOURCES IN ION ENGINES
NASA-CR-54109 N64-29223 21-17

THICKNESS AND COMPOSITION OF VACUUM-DEPOSITED NICKEL-CHROMIUM FILMS BY OPTICAL INTERFEROMETRY AND CHEMICAL MICROANALYSIS
USAELRDL-TR-2419 N64-29990 21-18

ELECTROCHEMICAL CORROSION BEHAVIOR OF STAINLESS STEEL AND NICKEL IN SULFURIC ACID SOLUTIONS SUBJECTED TO GAMMA RADIATION
FTD-MT-63-126 N64-30157 21-07

TENSILE, AGING RESPONSE, AND FRACTURE PROPERTIES OF 18 PERCENT NICKEL MARAGING STEEL FOR LARGE DIAMETER SOLID PROPELLANT ROCKET ENGINE
ML-TDR-64-115 N64-31895 23-18

BARKHAUSEN EFFECT IN IRRADIATED PURE IRON AND NICKEL
AD-433849 N64-32571 23-25

CALORIMETRIC TESTING OF MIRROR FOR NICKEL ELECTROFORMED COLLECTOR TO PRODUCE SOLAR CONCENTRATORS
NASA-CR-103 N64-32688 23-17

DEFORMATION UNDER PRESSURE TESTS ON NICKEL, MARAGING STEELS, MAGNESIUM OXIDE, TUNGSTEN-TANTALUM ALLOY, AND CHROME-MAGNESIUM COMPOSITE
NASA-CR-58946 N64-33097 24-18

ALTERATIONS IN MECHANICAL PROPERTIES OF NICKEL & NICKEL, COBALT & FERROUS ALLOYS DUE TO EXPLOSIVE STRESS WAVE
NWL-1930 N64-33861 24-18

IMPROVED NICKEL CADMIUM BATTERIES USING ELECTROFORMED NICKEL PLAQUES
NASA-CR-54114 N64-33877 24-19

INITIAL PERMEABILITY OF LITHIUM AND NICKEL FERRITES
AD-422698 N64-33899 24-25

NICKEL ALLOY
SA HASTELLOY
SA PERMALLOY
EFFECT OF ELECTROSLAG REMELTING ON PLASTICITY OF IRON-NICKEL-CHROMIUM BASE ALLOYS
JPRS-21760 N64-10123 01-18

EFFECTS OF TWO NICKEL ALLOY BRAZE COATINGS, HEAT TREATMENTS, AND PROCESSING VARIABLES ON RUPTURE STRENGTH OF SHEET METALS
NASA-TN-D-1880 N64-10334 01-18

CHEMICAL AND MECHANICAL PROPERTIES OF ALUMINUM, NICKEL, STEEL AND TITANIUM ALLOYS
NASA-CR-52533 N64-10341 01-18

INFLUENCE OF CERIUM, LANTHANUM, AND NEODYMIUM ON PROPERTIES OF HIGH-TEMPERATURE NICKEL-BASE ALLOYS
JPRS-21895 N64-10382 01-18

CRYSTAL STRUCTURE DEFECTS IN IRON AND NICKEL ALLOYS AND CHROMIUM
JPRS-17529 N64-10997 02-25

EFFECT OF UNSTABLE DEFECTS IN CRYSTAL STRUCTURE ON MOBILITY OF ATOMS IN NICKEL AND IRON ALLOYS
N64-10998 02-25

CHANGES IN MODULUS OF ELASTICITY AND TEMPERATURE IN FERROMAGNETIC SOLID SOLUTIONS ON NICKEL BASE ALLOY DURING HEAT TREATMENT N64-11145 02-18

CREEP RATE, LOAD LIFE, AND AUTODIFFUSION CONSTANT OF COPPER-NICKEL ALLOYS OF VARYING COMPOSITION AT HIGH TEMPERATURES
JPRS-17728 N64-11210 02-18

DIFFUSION COUPLE BONDING TECHNIQUE FOR OBTAINING DATA ON DIFFUSION KINETICS OF ALUMINUM-NICKEL-URANIUM SYSTEM
NAA-SR-8387 N64-11911 03-25

EVALUATION OF INCONEL WELDING OF AGE HARDENABLE NICKEL-CHROMIUM ALLOY AT ROOM TEMPERATURE
A250 N64-11928 03-18

TENSILE, RUPTURE, CREEP, & FATIGUE TESTS OF NICKEL ALLOYS
AD-422498 N64-12039 03-18

FRACTURE TOUGHNESS OF NICKEL TYPE MARAGING STEEL
DMIC MEMO-181 N64-12310 03-18

ALLOYING ELEMENT EFFECT ON PITTING CORROSION IN STAINLESS CHROMIUM-NICKEL STEEL, AND RECORDER FOR POTENTIAL DIFFERENCE AT SURFACE OF ALLOY
JPRS-22291 N64-12439 04-01

ALLOYING ELEMENT INFLUENCE ON RESISTANCE OF AUSTENITE-CHROMIUM-NICKEL STAINLESS STEEL TO CORROSION AND SITE OF PITTING N64-12440 04-18

METALLURGY OF NICKEL & ITS ALLOYS
IPST-969 N64-13023 04-18

STRESS-CORROSION CRACKING TESTS AND RESULTS OF VACUUM CAST NICKEL-COBALT-STEEL WITH LOW CARBON
L0414-01-24 N64-13121 04-18

DISPERSION STRENGTHENING IN NICKEL BASE THORIUM OXIDE ALLOY
TDR-269/4240-10/-4 N64-13763 05-18

ADHESION OF NICKEL, NICKEL-TITANIUM, & NICKEL-CHROMIUM DROPS TO ALUMINUM OXIDE SINGLE CRYSTAL PLAQUES
AMRA-CR-63-01/4 N64-13998 05-19

REACTOR ENVIRONMENT AND IRRADIATION EFFECT ON STRUCTURAL MATERIALS - ZIRCALOY-2, HASTELLOY X-280, AND NICKEL BASE ALLOYS N64-14232 06-23

STRESS-CORRDSION CRACKING OF HIGH STRENGTH NICKEL ALLOY STEELS
FZM-2951 N64-14617 06-18

FAILURE MECHANISM STUDY USING NICKEL ALLOY FILM RESISTOR
RADC-TDR-63-431 N64-15074 07-09

HIGH DUCTILITY IN INTERMETALLIC NICKEL-TITANIUM COMPOUND AND NICKEL-RICH ALLOYS
N64-15104 07-18

MECHANICAL PROPERTIES OF STEELS, ALUMINUM, NICKEL, TITANIUM, AND COBALT ALLOYS FOR CRYOGENIC AEROSPACE STRUCTURES
SSD-63-271 N64-15594 07-18

NICKEL AND NICKEL ALLOY WELDING - TECHNIQUES, PROCESSES, JOINT CONSTRUCTION, MATERIALS, AND METHODS
JPRS-22945 N64-15675 07-18

PHYSICAL METALLURGY OF 18 PERCENT NICKEL MARAGING STEELS
DMIC-194 N64-15709 07-18

PARABOLIC EQUATION FOR LOGARITHMIC OXIDATION RATE OF NICKEL-THORIUM DIOXIDE ALLOY
HW-79350 N64-15833 07-07

DEPTH OF COLD HARDENING LAYER IN ALLOYS AND ELECTRIC SPARK WORKING OF NICKEL BASE ALLOYS
FTD-TT-62-1248/1&2 N64-16233 08-17

ELECTRIC SPARK WORKING OF HEAT-RESISTANT NICKEL BASE ALLOYS N64-16235 08-17

ANALYSIS OF TWO-PHASE SYSTEN OF HIGH STRENGTH NICKEL-CHROMIUM ALLOY
FTD-TT-63-479/1 N64-16423 08-18

JOINING PROPERTIES OF NIOBIUM, MOLYBDENUM, AND NICKEL ALLOYS AND CERAMIC-TO-METAL JOINING
AD-431252 N64-16830 08-18

NICKEL-BASE AND COBALT-BASE SUPERALLOYS
AD-432123 N64-16838 08-18

BONDING IN OXIDE-FIBER REINFORCED MATERIALS - ALUMINUM OXIDE & NICKEL ALLOYS
AMRA-CR-63-01/5 N64-16993 09-19

DIFFUSION OF COBALT IN NICKEL-CHROMIUM ALLOY AND PLASTIC DEFORMATION OF ALLOYS N64-17035 09-25

RELATION BETWEEN DIFFUSION AND HIGH TEMPERATURE RESISTANCE TO PLASTIC DEFORMATION OF NICKEL ALLOYS
N64-17037 09-18

DIFFUSION IN NICKEL ALLOY SOLID SOLUTIONS
N64-17038 09-25

PHASE TRANSFORMATION IN IRON-NICKEL ALLOYS
N64-17045 09-18

CHANGES IN FINE CRYSTAL STRUCTURES DURING AGE HARDENING OF NICKEL AND IRON-NICKEL ALLOYS
N64-17046 09-18

INFLUENCE OF ALLOYING ADDITIONS ON TEMPERATURE DEPENDENCE OF ELASTIC MODULUS IN NICKEL & NICHROME ALLOYS N64-17059 09-18

RESISTANCE TO PLASTIC DEFORMATION OF NICKEL-IRON ALLOYS N64-17067 09-18

RESISTANCE TO PLASTIC DEFORMATION & HARDNESS OF BINARY SYSTEMS OF NICKEL WITH CHROMIUM, TUNGSTEN, AND MOLYBDENUM AT HIGH TEMPERATURES
N64-17068 09-18

CHEMICAL COMPOSITION & PROPERTIES CHARACTERISTIC TO NICKEL-ALLOY METALLURGY N64-17079 09-17

BRAZING ALLOYS FOR FABRICATION OF NICKEL-BASED HONEYCOMB SANDWICH PANELS
A469 N64-17131 09-18

ANNEALING CYCLE EFFECT ON GRAIN SIZE AND PRECIPITATE MORPHOLOGY IN NICKEL-CHROMIUM STEEL
A470 N64-17132 09-18

NICKEL-BASE AND COBALT-BASE ALLOYS
N64-17210 09-18

ELECTRON BEAM WELDING OF NIOBIUM, TUNGSTEN, MOLYBDENUM, NICKEL, AND ALUMINUM ALLOYS

N64-17211 09-18

ENGINEERING PROPERTIES OF AGE HARDENING NICKEL-CHROMIUM ALLOY - INCONEL
N64-17258 09-18

DESCALING OF IRON AND NICKEL BASE ALLOYS USING SODIUM HYDROXIDE-SODIUM CARBONATE MOLTEN SALT BATH
HW-79048 N64-17702 09-17

ACTIVITIES OF COPPER AND NICKEL IN LIQUID COPPER-NICKEL ALLOYS
BM-RI-6410 N64-17716 09-23

ALUMINUM OXIDE CRUCIBLE FAILURE IN PRESENCE OF NICKEL-COPPER-IRON ALLOYS
RTD-TDR-63-4159 N64-18024 10-19

FUSIBILITY OF NICKEL-CHROMIUM-NICKEL ALUMINUM SYSTEMS - LIQUIDUS CURVES
FTD-MT-63-174 N64-18690 11-25

GRAIN SIZE, AGING, AND ANNEALING STUDIES OF NICKEL-COBALT-MOLYBDENUM MARAGING STEEL
SM-43111 N64-18715 11-18

REINFORCEMENT OF IRON- AND NICKEL-CHROMIUM ALLOYS WITH SINGLE CRYSTAL ALUMINA FIBERS
AD-435044 N64-18772 11-18

RESISTIVITY OF NICKEL ALLOY WIRE IN ZERO MAGNETIC FIELD AT CRYOGENIC TEMPERATURES
AD-434386 N64-18780 11-23

STACKING FAULT ENERGY AND STRUCTURE DISLOCATION STUDY OF IRON-CHROMIUM-NICKEL ALLOYS AFTER PLASTIC DEFORMATION
UCRL-10890 N64-18984 11-25

WELDABILITY OF NICKEL-COBALT-MOLYBDENUM MARAGING STEEL SHEET
SM-44648 N64-19024 11-18

DISPERSION STRENGTHENING OF NICKEL-CHROMIUM ALLOYS USING THORIUM OXIDE
AD-432420 N64-19158 11-18

KINETICS OF TRANSFORMATION BY QUENCHING OF BETA-PHASE IN ALLOYS OF URANIUM WITH ALUMINUM, SILICON, IRON, NICKEL, MOLYBDENUM, & FISSION
N64-19444 12-18

TEMPERATURE DEPENDENCE OF MAGNETOSTRICTION AND COEFFICIENT OF LINEAR EXPANSION OF NICKEL-IRON-CHROMIUM ALLOY
FTD-TT-63-7/1&2&4 N64-19740 12-25

CREEP RESISTANCE OF STEELS CONTAINING VARYING AMOUNTS OF NICKEL AND ALLOYED WITH TUNGSTEN OR MOLYBDENUM
FTD-TT-64-48/1&2 N64-19769 12-18

FORGING PROCEDURE AND MECHANICAL PROPERTIES OF NICKEL-COBALT-MOLYBDENUM MARAGING STEEL
FZM-2608 N64-20070 13-18

FRICTION AND WEAR OF NICKEL-ALUMINUM ALLOYS AND SOME SULFUR-MODIFIED STEELS IN VACUUM
NASA-TN-D-2307 N64-20192 13-17

STRESS CORROSION CRACKING OF HIGH STRENGTH NICKEL ALLOYS & STEELS
REPT.-0414-02-3 N64-20572 13-18

MECHANICAL PROPERTIES OF 18 PERCENT NICKEL ALLOY MARAGING STEEL
DMIC-198 N64-21096 14-18

ANNOTATED BIBLIOGRAPHY - FABRICATION OF IRON, NICKEL, NICKEL-IRON OR PERMALLOY FILM BY THERMAL DECOMPOSITION OF CARBONYLS OR OTHER METHODS
SP-63-62 N64-21165 14-18

SOLIDIFICATION OF HIGH STRENGTH STEEL - COOLING EFFECT ON DENDRITE ARM SPACING, MICROSEGREGATION, AND DENDRITE MORPHOLOGY OF IRON-NICKEL ALLOY
AMRA-CR-63-04/1 N64-21354 14-18

SOLIDIFICATION OF HIGH STRENGTH STEEL - COOLING EFFECT ON DENDRITE ARM SPACING, MICROSEGREGATION, AND DENDRITE MORPHOLOGY OF IRON-NICKEL ALLOY
AMRA-CR-63-04/1 N64-21354 14-18

X-RAY K ABSORPTION SPECTRUM OF NICKEL-ALUMINUM ALLOYS
TR-64-1 N64-21535 15-23

TUNGSTEN-COBALT AND NICKEL ALLOY PRODUCTION BY DEPOSITION FORMING PROCESSES
AD-600315 N64-21582 15-18

ELECTROCHEMICAL RECOVERY OF COBALT-NICKEL ALLOY FROM SUPERALLOY SCRAP
BM-RI-6445 N64-21800 15-07

IDENTIFICATION OF HEAT-RESISTANT IRON-NICKEL-CHROMIUM ALLOYS
FTD-TT-63-12/1&2 N64-22137 15-18

MODULUS OF ELASTICITY OF NICKEL-TUNGSTEN ALLOY AS FUNCTION OF TUNGSTEN CONTENT N64-22172 15-18

HIGH TEMPERATURE TENSILE AND STRESS-RUPTURE PROPERTIES OF INCO 713C SHEET - NICKEL-BASE ALLOY
ASD-TDR-62-869, PT. II N64-22284 15-18

KINETIC AND GEOMETRIC CHARACTERISTICS OF MARTENSITE CONVERSION IN IRON-NICKEL MANGANIC ALLOY
FTD-TT-62-1760/1&2 N64-22398 15-17

COBALT-CHROMIUM-NICKEL ALLOY SUPPLEMENTED BY RHENIUM - HARDNESS, CORROSION AND WEAR RESISTANCE
FTD-TT-62-1840/1&2&4 N64-22407 15-18

PHYSICAL PROPERTIES OF WELDED COBALT-MOLYBDENUM-NICKEL ALLOY PLATE - WELDING TECHNIQUES, AGING, FRACTURE TOUGHNESS, & FAILURE SUSCEPTIBILITY
SM-45959 N64-22488 15-18

QUALITY OF ROLLED THREADS ON NICKEL ALLOY BLANK DETERMINED BY METALLOGRAPHIC EXAMINATION
A737 N64-22582 15-17

AGE-HARDENING CHARACTERISTICS OF NICKEL-BASE HEAT RESISTANT ALLOYS
JPRS-25004 N64-22733 16-18

MECHANICAL PROPERTIES OF COMMERCIAL NICKEL BASE HEAT RESISTANT ALLOYS
JPRS-24919 N64-22745 16-18

PLASTIC DEFORMATION EFFECT ON MECHANICAL PROPERTIES OF NICKEL ALLOYS & METALLOGRAPHY OF MOLYBDENUM
FTD-TT-62-1169/1&2&4 N64-23457 16-18

HIGH TEMPERATURE PLASTIC DEFORMATION EFFECTS ON MECHANICAL PROPERTIES OF NICKEL BASE ALLOYS
N64-23458 16-18

METALLURGICAL STUDY OF TUNGSTEN CARBIDE-COBALT AND NICKEL-ALUMINUM ALLOYS
FTD-MT-63-199 N64-24246 17-18

HARDNESS AND ELECTRICAL PROPERTIES OF NICKEL-ALUMINUM ALLOYS IN BETA-PHASE REGION
N64-24248 17-18

STRUCTURAL CHANGES DURING UNSTEADY HEATING OF NOZZLE VANES MADE FROM CAST NICKEL BASE HEAT RESISTANT ALLOY N64-24531 17-18

LATTICE THERMAL CONDUCTIVITY OF COPPER-NICKEL ALLOYS
DI-82-0333 N64-26512 18-18

CHROMIUM-NICKEL, IRON-CHROMIUM-NICKEL, AND CHROMIUM-NICKEL-COPPER STEEL ALLOY
JPRS-25163 N64-27147 19-18

HIGH-STRENGTH, PRECIPITATION-HARDENING, LOW-MAGNETIC IRON-CHROMIUM-NICKEL ALLOYS
N64-27148 19-18

CHROMIUM-NICKEL STEELS WITH TUNGSTEN, MOLYBDENUM, AND TITANIUM FOR GAS TURBINE PARTS
N64-27149 19-18

ZINC AND HYDROGEN INDUCED EMBRITTLEMENT IN FACE CENTERED CUBIC NICKEL ALLOY
ARL-64-101 N64-27467 19-18

MECHANICAL PROPERTIES OF NICKEL-BASE SUPERALLOYS FOR USE IN SUPERSONIC TRANSPORT AIRCRAFT AT HIGH TEMPERATURES
NASA-CR-92 N64-28312 20-18

PHYSICAL AND MECHANICAL PROPERTIES OF IRON AND NICKEL ALLOYS N64-29042 21-18

COMPARATIVE CORROSION RESISTANCE OF CHROMIUM AND NICKEL BASE TURBINE-BLADE ALLOYS TO EXHAUST GASES CONTAINING SULFUR, VANADIUM, AND SODIUM
ARL/ME-247 N64-30250 22-18

MECHANICAL PROPERTIES OF NICKEL AND COBALT ALLOYS
ESRD-13-10 N64-30705 22-18

STRENGTH AND WORKABILITY OF HIGH TEMPERATURE NICKEL-BASE, COBALT-BASE, AND COBALT-REFRACTORY METAL SUPERALLOYS
NASA-TN-D-2495 N64-31001 22-18

THERMAL CONDUCTIVITY, THERMOELECTRIC POWER, AND ELECTRICAL RESISTIVITY OF STOICHIOMETRIC TITANIUM-NICKEL ALLOY
NOLTR-64-76 N64-31085 22-25

DEPOSITION FORMING OF COBALT-TUNGSTEN AND NICKEL ALLOYS BY ELECTROCOMBINATION PROCESS
IPR-2 N64-31135 22-17

INCREASED RESISTANCE IN NICKEL ALLOYS BY ADDING ALUMINUM, BORON, TUNGSTEN, AND MOLYBDENUM
NASA-TT-F-9100 N64-31332 22-18

MAGNETIC AND PHYSICAL PROPERTIES OF TWO ALLOYS USED IN PRECISION ROTATING COMPONENTS NICKEL-CHROMIUM-IRON ALLOY AND NICKEL-COBALT-IRON ALLOY FOR ROTATING COMPONETS N64-31486 23-18

REFRACTORY NICKEL-CHROMIUM BASED CASTING ALLOYS N64-31514 23-18

TENSILE & STRESS-RUPTURE DATA ON HIGH TEMPERATURE NICKEL ALLOY
REPT.-2-53431/3R-478 N64-31708 23-18

ELEVATED TEMPERATURE, TENSILE, AND CREEP PROPERTIES OF INCONEL AND OTHER NICKEL BASE ALLOYS
ML-TDR-64-79 N64-31968 23-18

PHYSICAL AND MECHANICAL PROPERTIES OF LOW NICKEL CARBURIZING STEELS
JPRS-26959 N64-32304 23-18

DISPERSION-STRENGTHENED NICKEL, TITANIUM, CARBON, AND BORON ALLOYS
ASD-TR-62-734, PT. II N64-32479 23-18

TENSILE, AXIAL FATIGUE, AND CRACK PROPAGATION PROPERTIES OF ALUMINUM ALLOY, NICKEL MARAGING STEEL, HASTELLOY, AND NICKEL BASE ALLOY
GD/A-63-0818-3 N64-32819 24-18

CORROSION OF METALS IN MERCURY VAPOR AT HIGH TEMPERATURES - STAINLESS STEELS, MARTENSITIC CHROMIUM STEELS, COBALT & NICKEL ALLOYS AND REFRACTORY METALS
NASA-TM-X-54787 N64-33681 24-18

ALTERATIONS IN MECHANICAL PROPERTIES OF NICKEL & NICKEL, COBALT & FERROUS ALLOYS DUE TO EXPLOSIVE STRESS WAVE
NWL-1930 N64-33861 24-18

NICKEL CADMIUM BATTERY
NICKEL-CADMIUM CELLS FOR SPACECRAFT BATTERY - TELSTAR SATELLITE N64-11082 02-06

RADIATION EFFECT ON ELECTRODE BEHAVIOR IN NICKEL-CADMIUM BATTERY
NASA-CR-55217 N64-13187 04-06

OPTIMIZATION OF CONSTANT POTENTIAL CHARGING OF NICKEL-CADMIUM BATTERY CELLS AT VARIOUS TEMPERATURES
AD-426220 N64-13994 05-06

DESIGN OF RELIABLE SEALED NICKEL-CADMIUM CELL
QPR-2 N64-14296 06-06

FAILURE RATES AND MODES OF FAILURE FOR NICKEL-CADMIUM BATTERIES
NASA-CR-55716 N64-15892 07-06

LIFESPAN TESTING OF NICKEL-CADMIUM BATTERIES BY CHARGE-DISCHARGE CYCLING
NASA-CR-53029 N64-15965 07-06

RADIATION EFFECT ON NICKEL-CADMIUM BATTERY ELECTRODES
NASA-CR-55760 N64-16014 07-06

ENERGY STORAGE CAPACITY AND LIFESPAN OF NICKEL-CADMIUM BATTERIES
NASA-CR-55627 N64-16103 07-06

PERFORMANCE TEST OF NICKEL-CADMIUM SEALED FUEL CELLS
NASA-CR-55630 N64-16104 07-06

PERFORMANCE OF NICKEL-CADMIUM SEALED CELLS
NASA-CR-55631 N64-16105 07-06

ANALYSIS AND CHARACTERIZATION OF ELECTRODES IN NICKEL-CADMIUM SEALED CELLS
NASA-CR-55772 N64-16270 08-06

SEALED NICKEL-CADMIUM BATTERY SYSTEMS FOR SPACE APPLICATIONS
NASA-CR-55845 N64-16699 08-06

SEALED NICKEL-CADMIUM BATTERY FOR SPACECRAFT
NASA-CR-55828 N64-16717 08-06

FAILURE MODES OF SEALED NICKEL-CADMIUM CELLS N64-17413 09-06

OPTIMUM CHARGING METHODS FOR SEALED NICKEL-CADMIUM CELLS N64-17414 09-06

MEASUREMENTS OF CHARGE STATE OF NICKEL-CADMIUM BATTERY N64-17415 09-06

PERFORMANCE AND RELIABILITY OF SEALED CYLINDER NICKEL-CADMIUM STORAGE SPACE BATTERY
NASA-CR-53258 N64-17492 09-06

THREE SEALED BATTERY SYSTEMS - NICKEL-CADMIUM, SILVER-CADMIUM, AND SILVER-ZINC FOR SPACECRAFT POWER USE
NASA-SP-5004 N64-18052 10-06

CHARACTERIZATION OF NICKEL-CADMIUM ELECTRODES USED IN SEALED CELLS
NASA-CR-53731 N64-19573 12-06

SEALED NICKEL CADMIUM BATTERIES - EVALUATION PROGRAM
NASA-CR-53639 N64-19621 12-06

SEALED NICKEL-CADMIUM BATTERY CELLS - PERFORMANCE EVALUATION PROGRAM
NASA-CR-53923 N64-19925 12-06

METHODS FOR DETERMINING STATE OF CHARGE OF NICKEL-CADMIUM BATTERIES
AD-435989 N64-20345 13-06

DESIGN & MANUFACTURE OF CYLINDRICAL SEALED NICKEL-CADMIUM BATTERIES
REPT.-4 N64-20839 14-26

SEALED NICKEL CADMIUM BATTERY - DESIGN EXPERIMENTS FOR OVERCHARGE, CYCLE LIFE, AND CHARGE RETENTION
REPT.-7 N64-21464 14-06

NICKEL-CADMIUM BATTERIES
NASA-CR-56556 N64-24101 16-06

NICKEL-CADMIUM, SILVER-CADMIUM, AND SILVER-ZINC BATTERY SYSTEMS
NASA-CR-56514 N64-25802 17-06

CYCLE-LIFE PERFORMANCE AND FAILURE ANALYSIS OF

ALKALINE NICKEL-CADMIUM BATTERY
APL-TDR-64-76 N64-26246 18-06

SEALED NICKEL-CADMIUM CELL
REPT.-5 N64-26605 18-06

CYCLE-LIFE TESTS AND RADIATION EFFECTS ON ALKALINE BATTERIES - SILVER-ZINC, SILVER-CADMIUM, AND NICKEL-CADMIUM CELLS
APL-TDR-64-65 N64-26959 18-06

LIFETIME CYCLING TESTS OF SEALED NICKEL-CADMIUM BATTERY CELLS
NASA-CR-58179 N64-27383 19-06

CHARACTERIZATION OF NICKEL-CADMIUM ELECTRODES
NASA-CR-56625 N64-27384 19-06

LIFE CYCLE TESTS ON MULTICELL BATTERY PACKS - NICKEL-CADMIUM AND SILVER-CADMIUM BATTERY
NASA-CR-56477 N64-27818 19-06

NICKEL CADMIUM SEALED BATTERY CELLS FOR USE IN SPACECRAFT
NASA-CR-58202 N64-27902 20-06

LIFE CYCLE TESTS OF 5 AND 10 CELL NICKEL-CADMIUM BATTERY PACKS
NASA-CR-56475 N64-27914 20-06

THERMAL ANALYSIS OF HERMETICALLY SEALED NICKEL CADMIUM CELLS FOR SPACE APPLICATION
AIAA PAPER-64-751 N64-28849 20-06

GAMMA RADIATION EFFECTS ON NICKEL-CADMIUM BATTERIES - CAPACITY LOSS OF CADMIUM ELECTRODE AND RADIOLYSIS OF AQUEOUS POTASSIUM HYDROXIDE ELECTROLYTE
NASA-CR-58570 N64-29691 21-06

SEALED NICKEL CADMIUM BATTERY WITH HIGH RELIABILITY
REPT. 4 N64-32090 23-06

IMPROVED NICKEL CADMIUM BATTERIES USING ELECTROFORMED NICKEL PLAQUES
NASA-CR-54114 N64-33877 24-05

NICKEL COMPOUND
SINGLE CRYSTAL NICKEL OXIDE FROM NICKEL SULFATE BY VERNEUIL METHOD
E-T-J-63-3 N64-12276 03-25

GRAIN BOUNDARY HARDENING IN NICKEL-ALUMINUM DUE TO OXYGEN CONTAMINATION
ASD-TDR-63-309, PT. II N64-21442 14-18

COMPATIBILITY OF MATERIALS FOR LITHIUM-NICKEL HALIDE SECONDARY BATTERY
AD-433616 N64-21668 15-06

LOW TEMPERATURE MAGNETIC SUSCEPTIBILITY OF HYDRATED NICKEL NITRATES
TR-19 N64-25509 17-23

LITHIUM-NICKEL HALIDE SECONDARY BATTERY - HALF CELLS, ELECTROLYTE CONDUCTIVITIES, POSITIVE AND NEGATIVE ELECTRODE PREPARATIONS
AD-601148 N64-27769 19-06

LOW TEMPERATURE HEAT CAPACITIES AND ENTROPIES OF SULFIDES OF ARSENIC, GERMANIUM, AND NICKEL
BM-RI-6511 N64-28675 20-18

FLUCTUATIONS IN ANTIFERROMAGNETIC RESONANCE LINEWIDTH OF MANGANESE AND NICKEL FLUORIDES NEAR TRANSITION TEMPERATURE
TR-302 N64-32088 23-25

NICKEL OXIDE
SINGLE CRYSTAL NICKEL OXIDE FROM NICKEL SULFATE BY VERNEUIL METHOD
E-T-J-63-3 N64-12276 03-25

ELASTIC PROPERTIES OF POLYCRYSTALLINE NICKEL OXIDE
AROD-2892-2 N64-13041 04-19

CONDUCTION MECHANISM IN LITHIUM-SUBSTITUTED OXIDES OF MANGANESE, COBALT, NICKEL, AND COPPER
N64-18117 10-25

EFFECT OF DYNAMIC & STATIC PRESSURE ON DENSITY OF POWDER MIXTURE OF IRON, LITHIUM, NICKEL, & ZINC OXIDES
ERR-FW-212 N64-18947 11-17

EFFECT OF ADSORPTION OF OXYGEN ON CONDUCTIVITY OF POWDERED NICKEL OXIDE - TRANSIENT IONIC SPECIES EFFECT
GA-4979 N64-21745 15-25

GAS-SOLID INTERACTIONS AT ELECTRODE SURFACES - INTERACTION OF INORGANIC GASES WITH NICKEL OXIDE
GA-5099 N64-30150 21-25

MATHEMATICAL MODEL OF ACTIVE HEAT EXCHANGE ZONE OF SHAFT FURNACE FOR SMELTING OXIDIZED NICKEL ORES
N64-31425 23-17

FREQUENCY-DEPENDENT ELECTRICAL CONDUCTIVITY OF POWDERED NICKEL OXIDE DOPED WITH CHROMIUM
GA-4494 N64-33599 24-25

ADSORPTION OF OXYGEN ON NICKEL OXIDE-LITHIUM OXIDE CATALYSTS N64-33997 24-07

NICKEL PLATING
NAPHTHALENE TRISULFONIC ACID AND SACCHARIN BEHAVIOR IN NICKEL SULFAMATE PLATING BATH - STRESS PREVENTING AGENT
RIA-TR-63-3346 N64-13311 04-17

STRIPPING AND REPLATING METHODS FOR NICKEL ELECTROPLATED URANIUM
RFP-342 N64-17274 09-09

STATIC FATIGUE PROPERTIES OF DIFFUSED NICKEL CADMIUM PLATED HIGH STRENGTH STEELS
A733 N64-22579 15-18

NICKEL-TUNGSTEN DEPOSITION FROM HYPOPHOSPHITE BASED ELECTROLESS PLATING SOLUTION
A-63-23 N64-31658 23-07

NIGHT
NIGHT-TIME PHOTOMETER MEASUREMENTS OF OZONE CONCENTRATION AT HIGH ALTITUDE
NASA-TM-X-55101 N64-33630 24-12

PERSISTENCE OF NIGHT WINDS AND SHEARS IN E REGION
NASA-CR-59013 N64-33688 24-12

NIGHT AIRGLOW
UPPER ATMOSPHERE TEMPERATURE DETERMINATIONS BY FABRY-PEROT PRESSURE SCANNING INTERFEROMETER FROM EMISSION OF OXYGEN ATOMS N64-17005 09-12

IMAGE ORTHICON UTILIZATION FOR STUDYING AURORAL AND NIGHT AIRGLOW ACTIVITY
AFCRL-64-209 N64-17444 09-12

RECORDING OF 6300 ANGSTROM NIGHTGLOW EMISSION USING FABRY-PEROT INTERFEROMETER
AFCRL-64-370 N64-20841 14-12

INTENSITY DISTRIBUTION OF VARIABLE COMPONENT IN CONTINUOUS SPECTRUM OF NIGHT SKY EMISSION
NASA-TT-F-8918 N64-26422 18-12

OBSERVATIONS OF NIGHTGLOW EMISSIONS IN HYDROGEN SPECTRUM
NASA-TT-F-8919 N64-26769 18-20

DETECTION OF HIGH ENERGY PARTICLES IN UPPER ATMOSPHERE BY OBSERVATION OF NIGHT AIRGLOW
NASA-TT-F-9031 N64-27368 19-12

MEASUREMENT OF ATMOSPHERE COMPONENTS OF NIGHT AIRGLOW CONTINUUM, INTENSITY INCREASE IN AIRGLOW, SPATIAL DISTRIBUTION OF H-ALPHA LINE EMISSION, AND HYDROXYL AND WEAK EMISSIONS IN UPPER ATMOSPHERE
NASA-TT-F-204 N64-32701 24-12

SPECTRAL DISTRIBUTION OF EXTRA-ATMOSPHERIC COMPONENTS OF NIGHT AIRGLOW CONTINUUM
N64-32702 24-12

NIGHT AIRGLOW EMISSION IN ULTRAVIOLET REGION

N64-32705 24-12

SPATIAL DISTRIBUTION AND VARIATIONS OF H-ALPHA LINE EMISSION IN NIGHT AIRGLOW N64-32708 24-12

H-ALPHA LINE EMISSION IN NIGHT AIRGLOW AND HELIUM EMISSION OF NIGHT AIRGLOW WITH FABRY-PEROT INTERFEROMETER AND ELECTRONIC IMAGE CONVERTER N64-32709 24-12

PHOTOMETRY OF NIGHT SKY - EFFECTS OF INTEGRATED STARLIGHT, ZODIACAL LIGHT, AND AIRGLOW ON LIGHT INTENSITY
NASA-CR-59011 N64-33214 24-12

NIGHT IONOSPHERE
RECOMBINATION AND TRANSPORT IN NIGHTTIME F LAYER OF IONOSPHERE
NASA-CR-56827 N64-25565 17-12

CHEMILUMINESCENT TECHNIQUES OF FIREFLY PROJECT FOR NIGHT IONOSPHERE WINDSTORM ANALYSIS IN UPPER ATMOSPHERE N64-31391 23-12

NIGHT IONOSPHERE WIND PATTERNS FROM FIREFLY PROJECT OBSERVATIONS N64-31394 23-12

NIGHT SKY
MEASUREMENTS OF NIGHT SKY RADIATIONS AT MAGNETIC EQUATOR
AFCRL-63-736 N64-17859 10-12

INFRARED RADIATION FROM STARS IN NIGHT SKY
AD-404717 N64-21158 14-05

FLUORESCENT X-RADIATION FROM LUNAR SURFACE AND DETECTION OF OTHER X-RAY SOURCES IN NIGHT SKY
ASE-426 N64-25043 17-28

INTENSITY DISTRIBUTION OF VARIABLE COMPONENT IN CONTINUOUS SPECTRUM OF NIGHT SKY EMISSION
NASA-TT-F-8918 N64-26422 18-12

POLAR AURORA PHENOMENA AND NIGHT SKY RADIATION N64-29079 21-12

LUMINOUS SPOT IN NIGHT SKY DUE TO DECOMPOSITION OF SOLAR LIGHT BY CLOUD
NASA-TT-F-8957 N64-30850 22-28

RESOLUTION OF NIGHT SKY LIGHT INTO BASIC COMPONENTS OF INTEGRATED STARLIGHT, ZODIACAL LIGHT AND AIRGLOW
NASA-CR-58994 N64-33224 24-12

SOUNDING ROCKET DATA ON INFRARED SPECTRAL RADIANCE OF NIGHT HORIZON AND SKY
NAVWEPS-8552 N64-33724 24-12

NIKE-APACHE ROCKET
GEIGER COUNTER FOR NIKE-APACHE LAUNCHED PROBE OF SOFT X RAYS IN IONOSPHERE DURING SOLAR ECLIPSE
NASA CR-52164 N64-10086 01-12

NIKE-APACHE SOUNDING ROCKET - TRAJECTORY ANALYSIS
NASA-RP-224 N64-23334 16-04

METEOROLOGICAL DATA GATHERED FOR LAUNCHING OF NIKE-APACHE ROCKET
ERDA-123 N64-25251 17-21

METEOROLOGICAL DATA FOR NIKE-APACHE ROCKET LAUNCH
ERDA-133 N64-25504 17-21

METEOROLOGICAL DATA FOR LAUNCHING OF NIKE-APACHE SPEEDBALL II
ERDA-135 N64-25517 17-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCH OF NIKE-APACHE SPEEDBALL II ROCKET
ERDA-149 N64-31679 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING NIKE-APACHE ROCKET
ERDA-155 N64-32314 23-21

WIND DATA FOR NIKE-APACHE LAUNCHINGS AND BALLISTIC STUDIES
ERDA-162 N64-32315 23-21

METEOROLOGICAL AND BALLISTIC DATA FOR LAUNCHING NIKE-APACHE SPEEDBALL II ROCKET
ERDA-163 N64-32316 23-21

ELECTRON DENSITY PROFILES FOR QUIET DAY MID-LATITUDE D REGION USING NIKE-APACHE SOUNDING ROCKETS
NASA-TM-X-55075 N64-33558 24-12

NIKE-CAJUN ROCKET
UPPER AIR DENSITY AND TEMPERATURE MEASURED BY RADAR-TRACKED FALLING SPHERES
NASA-CR-29 N64-17831 09-12

NIKE-CAJUN VEHICLE TO CARRY PAYLOAD TO APOGEES OF 50 NAUTICAL MILES - TRUMP PROJECT
APGC-TDR-64-38 N64-33727 24-29

NIKE-HERCULES ROCKET
STORAGE LIFE AND SAFE OPERATING TEMPERATURE FOR NIKE HERCULES MOTOR UNDER EXTREME CONDITIONS
REPT.-19-64 N64-32455 23-27

NIKE ROCKET
SUPERSONIC WIND TUNNEL TESTING OF NIKE-IROQUOIS MODEL - INDUCED VEHICLE ROLLING MOMENTS
NASA-CR-58997 N64-33215 24-02

AERODYNAMICS AND HYPERSONIC WIND TUNNEL TESTS OF NIKE-IROQUOIS MODEL
NASA-CR-58850 N64-33217 24-02

NIKE-ZEUS ROCKET
CRYOSTAT DEVELOPMENT FOR APPLICATION IN NIKE-ZEUS RADAR SYSTEM
AD-425398 N64-19165 11-06

NIMBUS SATELLITE
ERROR ANALYSIS OF SATELLITE ATTITUDE FOR GEOGRAPHICAL CORRECTION OF NIMBUS CLOUD PICTURES
NASA-TN-D-2137 N64-12878 04-21

TIROS AND NIMBUS METEOROLOGICAL SATELLITES - MORE EFFECTIVE USE OF DATA OUTPUT
NASA-RP-96 N64-13169 04-32

NIMBUS SATELLITE ATTITUDE DETERMINATION BY PHOTOGRAMMETRIC SUBSYSTEM
ARA-9207-03-1 N64-13340 04-32

DATA PROCESSING USING NIMBUS SATELLITE INFRARED RADIOMETER
NASA-CR-55901 N64-16705 08-21

VIBRATION AND DYNAMIC RESPONSE OF SCALE MODEL OF NIMBUS SPACECRAFT SATELLITE N64-18541 11-30

NIMBUS SATELLITE SYSTEMS CONTAINING MICROELECTRONIC CIRCUITS - TELEMETRY SYSTEM
NASA-TN-D-2311 N64-23221 16-09

RADIATION MEASURING INSTRUMENTS, AIRCRAFT FLIGHT TESTS OF NIMBUS RADIOMETERS, AND BALLOON FLIGHT DATA
NASA-CR-56207 N64-23939 16-15

SPACE RADIATION EFFECT ON NIMBUS B SATELLITES IN VARIOUS ORBITS
R64-MCD-501 N64-27213 19-28

EFFECTIVENESS OF VIBRATION DAMPING AND ISOLATION METHODS IN REDUCING DYNAMIC RESPONSE OF SCALE MODELS OF NIMBUS SATELLITE
NASA-TN-D-2418 N64-27360 19-33

NIMBUS SATELLITE - SPACECRAFT, SUBSYSTEMS, AND LAUNCH VEHICLE N64-27504 19-32

TIROS AND NIMBUS METEOROLOGICAL SATELLITES N64-30341 22-32

NIMONIC ALLOY
EFFECTS OF TITANIUM, ALUMINUM, & GAS CONTENT ON MECHANICAL PROPERTIES OF NIMONIC ALLOY
JPRS-25005 N64-23253 16-33

NIOBIUM
HEAT TREATMENT OF NIOBIUM
JPRS-22404 N64-12008 03-17

ZONE REFINING OF NIOBIUM BY ELECTRIC-ARC
N64-12449 04-17

CRITICAL CURRENT, TEMPERATURE, & FIELD OF COMPOSITE NIOBIUM-TIN SUPERCONDUCTING SYSTEMS
SR-7 N64-13595 05-23

PRODUCTION AND METALLURGICAL PROPERTIES OF ZIRCONIUM, NIOBIUM, MOLYBDENUM, AND IRON
JPRS-22697 N64-13726 05-01

ELECTRON DIFFRACTION AND X-RAY PHOTOGRAPHY OF OXIDE FILM ON NIOBIUM AFTER CONTROL OXIDATION
N64-13732 05-23

LOW TEMPERATURE ELECTRONICS - CRITICAL-CURRENT CRITICAL-FIELD CHARACTERISTICS OF ANNEALED NIOBIUM WIRE SPECIMENS
SSD-TDR-63-311 N64-14511 06-23

SUPERCONDUCTING NIOBIUM-TIN SOLENOID
REPT.-63-RL-3397/M/ N64-14917 06-23

OPTICAL CONSTANT MEASURING METHOD FOR SINGLE CRYSTALS OF TUNGSTEN, MOLYBDENUM, AND NIOBIUM
AFCRL-63-547 N64-15067 07-23

HIGH TEMPERATURE SORPTION OF OXYGEN AND NITROGEN BY NIOBIUM IN ULTRAHIGH VACUUM
TID-19489 N64-16069 07-18

EFFECT OF TEMPERATURE AND STRAIN RATE ON YIELD AND FIELD STRESSES IN NIOBIUM
ATN-64/9236/-6 N64-16596 08-25

NIOBIUM AND TANTALUM AND THEIR ALLOYS - PROCESS DEVELOPMENT
N64-17215 09-18

VALUES FOR LOW TEMPERATURE PLASTIC-DEFORMATION OF NIOBIUM DERIVED FROM CREEP TESTS, EQUIVALENT TO VALUES OBTAINED IN CONSTANT STRAIN RATE TESTS
ATN-64/9236/-9 N64-17781 09-18

STRESS EFFECT ON LUDER BAND VELOCITY AT ROOM TEMPERATURE IN NIOBIUM
ATN-64/9236/-5 N64-17866 10-25

ANALYSIS OF HIGH PURITY NIOBIUM BY OPTICAL EMISSION SPECTROGRAPHY
BM-RI-6414 N64-17984 10-07

CONTROL FEMALE ALBINO RATS POISONED BY NIOBIUM INJECTION TO MEASURE RENAL FUNCTION BY DILUTION TEST
UR-646 N64-19865 12-16

VANADIUM, NIOBIUM, MOLYBDENUM, AND TUNGSTEN AS OXIDATION-RESISTANT COATINGS FOR REFRACTORY METALS
AD-435100 N64-20287 13-18

WELDING OF NIOBIUM BY VACUUM ARC AND ELECTRON BEAM MELTING
N64-20656 13-17

OXYGEN DIFFUSION INTO REFRACTORY METALS-NIOBIUM
N64-20806 14-25

OPTIMUM PRODUCTION TECHNIQUES FOR NIOBIUM CAPACITORS
AD-433092 N64-21227 14-17

PROTECTION OF NIOBIUM FROM HIGH TEMPERATURE GAS CORROSION
FTD-TT-62-1251/1&2 N64-21648 15-17

SURFACE IONIZATION OF CESIUM - IONIZATION EFFICIENCIES OF TUNGSTEN, RHENIUM, & NIOBIUM, AND INFLUENCE OF ADSORBED GASES
NASA-CR-54047 N64-22444 15-24

DIFFUSION IN BODY-CENTERED CUBIC METALS - ZIRCONIUM, VANADIUM, NIOBIUM AND TANTALUM
ORNL-3617 N64-22948 16-18

MEASUREMENT AND SHELL MODEL INTERPRETATION OF LOW-LYING NUCLEAR ENERGY LEVELS OF NIOBIUM 92
ORNL-3638 N64-23362 16-23

PRODUCTION ENGINEERING MEASURE FOR NIOBIUM CAPACITORS
AD-436536 N64-24059 16-09

ELECTRON GUN FOR VAPORIZING MATERIAL AT HIGH MELTING POINT - PRODUCTION OF VANADIUM AND NIOBIUM THIN FILMS
LNF-64/9 N64-25669 17-15

X-RAY SPECTROGRAPHIC ANALYSIS FOR TRACE AMOUNTS OF TANTALUM IN NIOBIUM
BM-RI-6483 N64-26515 18-07

SPECTOPHOTOMETRIC METHODS FOR TANTALUM AND NIOBIUM IDENTIFICATION
FTD-TT-64-370/1&2&4 N64-26720 18-07

SCIENCE AND TECHNOLOGY OF TUNGSTEN, TANTALUM, MOLYBDENUM, NIOBIUM, AND THEIR ALLOYS - REFRACTORY ALLOY CONFERENCE
AGARDOGRAPH-82 N64-27576 19-18

THERMOPHYSICAL PROPERTIES OF TUNGSTEN, NIOBIUM, MOLYBDENUM, AND TANTALUM - REFRACTORY ELEMENTS
N64-27585 19-18

OXIDATION BEHAVIOR OF MOLYBDENUM, TUNGSTEN, NIOBIUM, AND TANTALUM IN GASEOUS ATMOSPHERES OF OXYGEN-NITROGEN, CARBON MONOXIDE-CARBON DIOXIDE, AND HYDROGEN-WATER MIXTURES
N64-27588 19-18

NIOBIUM METAL ELECTROREFINED IN FUSED SALT ELECTROLYTE
BM-RI-6506 N64-28453 20-18

WORK HARDENING OF POLYCRYSTALLINE & SINGLE CRYSTAL NIOBIUM DURING HIGHEST-STRAIN WIRE DRAWING
ML-TDR-64-56 N64-28571 20-18

PRODUCTION OF DUCTILE NIOBIUM FROM ELECTROLYTIC POWDERS
JPRS-16063 N64-28633 20-07

EFFECT OF OXYGEN ON CREEP-RUPTURE OF NIOBIUM
NRL-6095 N64-29956 21-18

COMPARISON OF SPECTROPHOTOMETRIC METHODS FOR IDENTIFYING TANTALUM AND NIOBIUM WITH ORGANIC REAGENTS
FTD-TT-64-455/1&2 N64-32484 23-07

PROCESSING OF HIGH STRENGTH NIOBIUM ALLOY FOR SHEET ROLLING
AD-606291 N64-33427 24-18

NIOBIUM ALLOY

WELDING CHARACTERISTICS OF NIOBIUM ALLOYS AT ELEVATED TEMPERATURES
ASD-TDR-63-843 N64-11371 02-18

THERMAL PROPERTIES OF REFRACTORY MATERIALS - BORON CARBIDE, NIOBIUM, TANTALUM, AND MOLYBDENUM ALLOYS, AND ZIRCONIUM NITRIDE
ASD-TDR-63-597 N64-11471 03-13

CREEP OF NIOBIUM ALLOYS
DMIC-MEMO-170 N64-12045 03-18

DISPERSION STRENGTHENED VANADIUM-NIOBIUM ALLOYS PREPARED BY ARC-MELTING
IITRI-B6007-5 N64-12126 03-18

METALLURGY OF TERNARY ALLOYS OF NIOBIUM-TUNGSTEN-ZIRCONIUM, AND OF NIOBIUM-MOLYBDENUM-ZIRCONIUM
JPRS-22593 N64-12358 03-18

ARGON ARC, SPOT, AND ROLLER WELDING OF NIOBIUM ALLOYS, AND PROPERTIES OF WELDED JOINTS
JPRS-22597 N64-12702 04-17

NIOBIUM ALLOY SHEET ROLLING
AD-424593 N64-13109 04-18

ENGINEERING PROPERTIES OF NIOBIUM, MOLYBDENUM, TANTALUM, AND TUNGSTEN ALLOYS
DMIC-188 N64-13301 04-18

OXIDE FILM ON ZIRCONIUM-NIOBIUM AND ZIRCONIUM-NIOBIUM-MOLYBDENUM ALLOYS IN AIR
N64-13729 05-18

DISTRIBUTION OF CARBON, IRON, LEAD, AND TUNGSTEN ADDITIONS TO NIOBIUM AFTER ZONE REFINING BY ELECTRIC ARC METHOD N64-13731 05-17

HIGH TEMPERATURE CREEP ANALYSIS OF VANADIUM-NIOBIUM BASE ALLOYS
IITRI-B6007-6 N64-13954 05-18

OPTIMUM PROCESSING PARAMETERS FOR REFRACTORY NIOBIUM BASE ALLOY FOIL
ASD-TDR-63-829, PT. 1 N64-15499 07-18

PROCESSING AND EVALUATION OF PREPRODUCTION QUANTITIES OF FS-85 AND B-66 NIOBIUM ALLOY SHEET
AD-430003 N64-15756 07-18

OXIDATION TESTS OF PLATINUM COATINGS - PREPARATION OF COATING FOR NIOBIUM OR MOLYBDENUM ALLOYS AND OF DIFFUSION BARRIER LAYERS
AD-429754 N64-15935 07-18

NIOBIUM AND TANTALUM ALLOYS FOR USE AT HIGH TEMPERATURES
BM-RI-6390 N64-16258 08-18

SHEET ROLLING OF NIOBIUM ALLOYS
AD-430773 N64-16438 08-17

HIGH TEMPERATURE TEST OF CHROMIUM-TITANIUM COATED COLUMBIUM ALLOY BOLT AND NUT
A474 N64-16787 08-18

JOINING PROPERTIES OF NIOBIUM, MOLYBDENUM, AND NICKEL ALLOYS AND CERAMIC-TO-METAL JOINING
AD-431252 N64-16830 08-18

MECHANICAL PROPERTIES & SURFACE CONDITIONS OF CHEMICAL MILLED NIOBIUM-ZIRCONIUM ALLOYS
A473 N64-16881 08-18

CHROMIUM-NIOBIUM-VANADIUM ALLOYS
N64-17044 09-18

ELECTRON BEAM WELDING OF NIOBIUM, TUNGSTEN, MOLYBDENUM, NICKEL, AND ALUMINUM ALLOYS
N64-17211 09-18

NIOBIUM AND TANTALUM AND THEIR ALLOYS - PROCESS DEVELOPMENT N64-17215 09-18

EVALUATION OF COATING FOR NIOBIUM AND MOLYBDENUM ALLOY FOILS
RTD-TDR-63-4006, PT. 1 N64-17515 09-18

COLD-ROLLING UNDER TENSION FROM 0.1 TO .015 INCH - NIOBIUM AND TANTALUM ALLOYS
AD-422001 N64-17616 09-17

PROCESSING OF NIOBIUM AND TANTALUM BASE ALLOYS FROM INGOT TO SHEET, ROLLING OF PURE TUNGSTEN SHEET
AD-418544 N64-17617 09-17

MELTING OF COLUMBIUM-BASE AND TANTALUM-BASE ALLOY INGOTS BY ARC CASTING
AD-297246 N64-17660 09-17

ELECTROFORMING, ELECTROCOMBINATION, AND CHEMICAL VAPOR DEPOSITION OF NIOBIUM-TUNGSTEN ALLOY
ML-TDR-64-26 N64-18564 11-17

CORROSION RESISTANCE OF THORIUM-ZIRCONIUM-NIOBIUM ALLOYS N64-19446 12-18

THERMAL-MECHANICAL PROCESSING EFFECT ON TENSILE STRENGTH OF TUNGSTEN-NIOBIUM ALLOY
ASD-TDR-63-782 N64-19654 12-18

DUCTILE COATING FOR OXIDATION PROTECTION OF NIOBIUM AND MOLYBDENUM ALLOYS
BMPR-4 N64-20103 13-17

WELDING OF TITANIUM AND NIOBIUM ALLOYS
JPRS-24521 N64-20654 13-17

FURNACE OXIDATION, AND ENVIRONMENTAL TESTING OF COATED NIOBIUM ALLOY FOILS
RDR-1325-7 N64-20856 14-18

PROTECTIVE COATING FOR NIOBIUM BASE ALLOYS TO BE USED IN RAMJET MISSILE
REPT.-6012 N64-21157 14-18

EFFECT OF DEGREE OF VACUUM ON SLOW-BEND CREEP OF NIOBIUM-ZIRCONIUM ALLOY AT HIGH TEMPERATURE
ORNL-3569 N64-21298 14-18

TENSILE STRENGTH TESTING OF COATED NIOBIUM ALLOY SHEET OVER TEMPERATURE RANGE FROM ROOM TEMPERATURE TO 2600 DEG F
TM-3866-67 N64-21382 14-18

DIFFUSION MOBILITY OF ZIRCONIUM IN ZIRCONIUM-NIOBIUM ALLOYS
FTD-TT-63-258/1&2 N64-21944 15-18

SOLUBILITY OF NIOBIUM-ZIRCONIUM IN SODIUM BY ACTIVATION ANALYSIS
NRL-6051 N64-22508 15-07

THERMAL CYCLE EFFECT ON MECHANICAL PROPERTIES OF NIOBIUM ALLOY
A739 N64-22584 15-18

METALLOGRAPHIC EXAMINATION OF NIOBIUM ALLOY CORE JOINTS
A741 N64-22585 15-18

FABRICATION CHARACTERISTICS OF NIOBIUM BASE ALLOYS
A743 N64-22586 15-18

HYDROPURIFICATION OF REFINED DIESEL OIL WITH ALUMINUM-NIOBIUM-MOLYBDENUM CATALYST
FTD-TT-62-1735/1&2&4 N64-22632 15-07

SHEET ROLLING OF NIOBIUM ALLOY
IR-3 N64-22954 16-18

ADDITION EFFECT OF ALLOYING ADMIXTURES ON SCALING RESISTANCE AND OXYGEN CONTAMINATION OF BINARY ALLOY OF NIOBIUM AND ZIRCONIUM
FTD-TT-63-1020/1&2 N64-23435 16-18

MECHANICAL AND THERMOPHYSICAL PROPERTIES OF COATED NIOBIUM AND TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOYS AND SUPERALLOY THIN SHEET
SID-63-956 N64-24126 16-18

CHEMICAL MILLING EFFECTS ON NIOBIUM-ZIRCONIUM ALLOY
A740 N64-24209 16-18

MECHANICAL PROPERTIES AND FABRICATION OF NIOBIUM-TUNGSTEN-ZIRCONIUM ALLOY SHEET
A742 N64-24210 16-18

SPECTROGRAPHIC ANALYSIS OF SOLUTIONS ON CORED GRAPHITE - APPLICATION TO ZIRCONIUM-NIOBIUM ALLOY
ONERA-TN-76 N64-25607 17-18

NIOBIUM-HAFNIUM ALLOYS FOR USE AS HIGH TEMPERATURE STRUCTURAL MATERIALS
BM-RI-6492 N64-25834 17-18

COATED NIOBIUM ALLOYS
ER-5885 N64-26527 18-18

TECHNIQUES FOR APPLYING PROTECTIVE COATINGS TO NIOBIUM ALLOYS - FUSED SALT BATH, FLUIDIZED BED AND SLURRY DIP APPLICATION
RTD-TDR-63-4063 N64-26903 18-17

PHYSICAL PROPERTIES OF NIOBIUM ALLOY EVALUATION AS STRUCTURAL MATERIAL FOR REENTRY VEHICLE
D2-20239-1 N64-27084 19-18

PHYSICAL PROPERTIES OF NIOBIUM ALLOY - EVALUATION AS STRUCTURAL MATERIAL FOR REENTRY VEHICLE
D2-20275-1 N64-27085 19-18

THERMODYNAMIC AND MECHANICAL PROPERTIES OF NIOBIUM-NITROGEN AND NIOBIUM-ZIRCONIUM-NITROGEN ALLOYS
ML-TDR-64-134 N64-27461 19-18

STRENGTH AND HARDNESS OF REFRACTORY ALLOYS OF NIOBIUM, TANTALUM, MOLYBDENUM, AND TUNGSTEN METALS N64-27578 19-18

MOLYBDENUM, NIOBIUM, TANTALUM, AND TUNGSTEN BASE ALLOYS AT ELEVATED TEMPERATURE - REFRACTORY ALLOY
N64-27580 19-18

FABRICATION TESTS OF MOLYBDENUM, NIOBIUM, TUNGSTEN, TANTALUM - REFRACTORY ALLOYS
N64-27593 19-18

POWDER METALLURGY CONSOLIDATION OF TUNGSTEN, MOLYBDENUM, NIOBIUM, AND TANTALUM ALLOYS-REFRACTORY ALLOYS N64-27595 19-18

ULTRAHIGH VACUUM FURNACE AND AUXILIARY CONTROL EQUIPMENT FOR LONG TIME CREEP TESTS ON REFRACTORY ALLOYS - NIOBIUM ALLOY
NASA-CR-54123 N64-28051 20-18

EXTRUSION AND DRAWING OF NIOBIUM ALLOY H SECTIONS
IR-1 N64-28225 20-18

DUCTILE COATING FOR OXIDATIVE PROTECTION OF NIOBIUM AND MOLYBDENUM ALLOYS
BPR-5 N64-28611 20-18

SINTERED AND INFILTRATED PSEUDO-ALLOYS OF NIOBIUM AND TANTALUM
AD-442530 N64-29639 21-18

SUPERCONDUCTING NIOBIUM-THORIUM AND NIOBIUM-TITANIUM EUTECTIC ALLOYS
NASA-CR-54103 N64-29709 21-18

OPTIMIZATION OF DIFFUSION COATING PROCESS FOR NIOBIUM BASE ALLOY
ML-TDR-64-71 N64-29851 21-17

EFFECT OF ALLOY COMPOSITION, DEFORMATION TEMPERATURE, HEAT TREATMENT, AND INTERSTITIAL CONTAMINATION ON TWINNING TENDENCY OF NIOBIUM-VANADIUM ALLOYS
ORNL-3678 N64-29953 21-18

ELECTRON PROBE ANALYSIS OF BETA-TITANIUM-VANADIUM, BETA-TITANIUM-NIOBIUM, AND CHROMIUM-VANADIUM DIFFUSION SYSTEMS
NRL-6141 N64-29962 21-18

IMPROVED STRENGTH AND DUCTILITY OF RECRYSTALLIZED NIOBIUM ALLOY SHEET
AD-600403 N64-30864 22-18

COOLING RATE EFFECT ON HARDNESS OF ZIRCONIUM-NIOBIUM ALLOYS
CRRM-1200 N64-30905 22-18

COLD WORKING PRESSURE FOR TITANIUM ALLOYS AND PRODUCTION OF NIOBIUM ALLOYS FROM OXIDES
JPRS-26789 N64-32129 23-18

NOTCH SENSITIVITY OF REFRACTORY METALS - FRACTURE TOUGHNESS AND CRACK PROPAGATION IN MOLYBDENUM AND NIOBIUM ALLOYS
BPR-1 N64-32439 23-18

COLUMBIUM ALLOY THREADED FASTENERS WITH OXIDATION RESISTANT METALLIC COATINGS
PR-3 N64-32655 23-17

NIOBIUM-TIN ALLOY SUPERCONDUCTOR
JPRS-26862 N64-32746 24-25

ZIRCALOY 2, ZIRCONIUM, AND NIOBIUM ALLOYS FOR USE IN PRESSURE TUBES OF POWER REACTORS
AECL-2022 N64-33136 24-18

NIOBIUM COMPOUND
X RAY SPECTROSCOPY OF L BANDS OF NIOBIUM NITRIDE, NIOBIUM CARBIDE, NIOBIUM DIBORIDE
N64-10671 02-18

CARBOTHERMIC REDUCTION OF NIOBIUM PENTOXIDE
JPRS-18277 N64-10753 02-07

PRODUCING NITRIDES OF REFRACTORY METALS - NIOBIUM, TITANIUM, TANTALUM, AND CHROMIUM
N64-11013 02-17

ABSORPTION OF NITROGEN, HYDROGEN, AND CARBON GASES BY NIOBIUM TANTALUM
FTD-TT-62-1764/1&2 N64-12313 03-23

OXIDATION KINETICS OF NIOBIUM IODIDE USING IODIDE REFINING AND ELECTRON BEAM REMELTING METHODS
N64-13733 05-07

MIXED METAL DIBORIDES OF TITANIUM-VANADIUM, TITANIUM-NIOBIUM, AND TITANIUM-TANTALUM
BM-RI-6407 N64-17715 09-19

CHARACTERISTICS OF ZIRCONIUM, NIOBIUM, & TANTALUM BERYLIDES AS THERMIONIC EMITTERS
DRI-2137 N64-19975 12-06

SEPARATION AND DETERMINATION OF NIOBIUM AND TANTALUM CHLORINATED OXIDES FROM UNREACTED EARTH ACIDS
AEET/ANAL/15 N64-22253 15-07

LOW AND HIGH TEMPERATURE STRUCTURES OF SODIUM NIOBATE CRYSTALS
AD-442752 N64-33664 24-25

X-RAY AND DIELECTRIC MEASUREMENTS OF SODIUM NIOBATE AT VARYING TEMPERATURES
QTSR-2 N64-33671 24-25

NIOBIUM STANNIDE
FEASIBILITY OF LARGE VOLUME SUPERCONDUCTING MAGNET USING VAPOR DEPOSITED NIOBIUM STANNIDE RIBBON
NASA-CR-54061 N64-28461 20-23

NITRATE
METAL NITRATE COMPLEXES WITH TRIBUTYL PHOSPHATE AND WITH TRIOCTYL PHOSPHINE OXIDE -
IS-595 N64-10156 01-19

EFFECT OF CATION RATIO CHANGE ON DECOMPOSITION REACTION OF NITRATE ION BY PYROSULFATE ION IN ALKALI NITRATES
IS-742 N64-14225 06-07

LOW VELOCITY DETONATION IN NITROGLYCERIN-ETHYLENE GLYCOL DINITRATE
AD-428376 N64-14465 06-26

PROTACTINIUM STABILITY IN THORIUM NITRATE-NITRIC ACID SOLUTIONS N64-15654 07-07

ACCELERATION DATA TRANSMITTER - TUBE FILLED WITH SILVER NITRATE GRAVIOPOLARIZING SOLUTION
FTD-TT-63-658/1 N64-16384 08-15

THERMODYNAMICS OF INTERSTITIAL SOLID SOLUTIONS AND REFRACTIVE COMPOUNDS - CARBIDES, OXIDES, AND NITRATES
ASD-TR-61-445, PT. 3 N64-16801 08-25

SOLVENT EXTRACTION STUDY OF MONAZITE RARE EARTH NITRATES, NITRIC ACID, WATER, AND TRIBUTYL PHOSPHATE
IS-780 N64-19003 11-07

EXPLOSION INITIATION MECHANISM IN STANDARD IMPACT SENSITIVITY TESTER - PROPYL NITRATE STUDIES
RPL-TDR-64-61 N64-21408 14-26

LOW TEMPERATURE MAGNETIC SUSCEPTIBILITY OF HYDRATED NICKEL NITRATES
TR-19 N64-25509 17-23

FLUIDIZED-BED CALCINATION PROCESS FOR ALUMINUM NITRATE WASTES FROM REACTOR FUELS
IDO-14627 N64-27075 19-07

PHYSICAL AND CHEMICAL PROPERTIES OF ANHYDROUS METAL NITRATES
ATR-23 N64-32367 23-07

NITRATE ESTER
PREPARATION AND PROPERTIES OF CELLULOSE NITRATE-ACETATE MIXED ESTERS
PA-TR-3105 N64-27956 20-07

NITRATION
CF CHEMICAL REACTION
ALKYL NITRATE NITRATION FOR PREPARATION OF ALPHA-MONONITRO-KETONES - SOLID SMOKELESS PROPELLANT
RR-25 N64-12868 04-07

KINETICS OF AROMATIC NITRATION
UCRL-11069 N64-13293 04-07

TITANIUM SURFACE STRENGTHENING BY NITRATION, OXIDATION, AND METAL PLATING - TITANIUM PLATING OF STEEL
JPRS-23913 N64-17736 09-18

NITRIC ACID
EXTRACTION OF HYDROGEN PERCHLORATE AND NITRIC ACID INTO TRIOCTYLPHOSPHINE OXIDE FROM CARBON TETRACHLORIDE AND NITROBENZENE SOLUTIONS
UCRL-10971 N64-15243 07-07

PROTACTINIUM STABILITY IN THORIUM NITRATE-NITRIC ACID SOLUTIONS N64-15654 07-07

PEROXIDE PRECIPITATION OF PROTACTINIUM AND URANIUM FROM THORIUM NITRATE-NITRIC ACID SOLUTIONS N64-15655 07-07

INFRARED SPECTROSCOPIC STUDY OF TRIBUTYL PHOSPHATE NITRIC ACID WATER SOLVENT EXTRACTION SYSTEM
IS-728 N64-15671 07-07

EFFECT OF NITRIC ACID, THORIUM, FLUORIDE, AND ALUMINUM ON PROTACTINIUM ADSORPTION BY UNFIRED VYCOR GLASS
ORNL-3599 N64-19237 11-07

OXIDATION OF FERROUS ION IN SOLUTIONS OF SULFAMIC AND NITRIC ACIDS
DP-871 N64-20489 13-07

EXTRACTION OF ACTINIDE AND LANTHANIDE NITRATES FROM NITRIC ACID USING ALKYL PHOSPHINE OXIDES
EUR-437.F N64-20831 14-07

REDUCTION OF CATALYST NEEDED FOR CONTINUOUS DISSOLUTION OF ALUMINUM IN NITRIC ACID BY RECIRCULATION OF DISSOLVER EFFLUENTS
IDO-14637 N64-21774 15-07

CHEMICAL AND ELECTROCHEMICAL PASSIVATION AND CORROSION OF IRON IN NITRIC ACID
FTD-TT-62-1721/1&2 N64-29023 21-07

INFLUENCE OF NITRIC ACID ON REDUCTION OF CERIUM IONS IN POLONIUM ALPHA RADIATION FIELD
LFEN-2 N64-29235 21-07

CORROSION OF STAINLESS STEEL BY SIMULATED WATER MODERATED REACTOR FUEL - DEPLETED URANIUM OXIDE IN NITRIC OR PHOSPHORIC ACID
LA-3101 N64-29772 21-18

ANION EXCHANGE CHARACTERISTICS OF ELEMENTS IN NITRIC ACID AND NITRATE SOLUTIONS - APPLICATION TO TRACE ELEMENT ANALYSIS
ANL-6811 N64-30126 21-07

VIBRATIONAL SPECTRUM, STRUCTURE, AND FORCE CONSTANTS OF NITRIC ACID
AFCRL-64-651 N64-31373 23-07

ALLEVIATION OF DIE WELDING DURING PIANO WIRE DRAWING BY PICKLING IN DILUTE NITRIC ACID SOLUTION
NOTS-TP-3636 N64-32960 24-17

NITRIDATION
NITRIDATION OF CERIUM IN QUARTZ REACTOR WITH AMMONIA & NITROGEN TO FORM CERIUM NITRIDE
JPRS-18919 N64-11347 02-07

NITRIDING ALUMINUM POWDER & DUST TO PRODUCE ALUMINUM NITRIDE - POWDER METALLURGY N64-13700 05-07

NITRIDE
X RAY SPECTROSCOPY OF L BANDS OF NIOBIUM NITRIDE, NIOBIUM CARBIDE, NIOBIUM DIBORIDE N64-10671 02-18

PRODUCING NITRIDES OF REFRACTORY METALS - NIOBIUM, TITANIUM, TANTALUM, AND CHROMIUM N64-11013 02-17

REPROCESSING OF URANIUM CARBIDE BY NITRIDE-CARBIDE CYCLE
NAA-SR-8388 N64-11322 02-07

WETTING CARBIDE ALLOYS OF MOLYBDENUM & TITANIUM WITH NICKEL AND FORMING ALUMINUM NITRIDE BY POWDER METALLURGY
JPRS-22655 N64-13697 04-01

NITRIDING ALUMINUM POWDER & DUST TO PRODUCE ALUMINUM NITRIDE - POWDER METALLURGY N64-13700 05-07

FORMATION OF ALUMINUM NITRIDE USING METAL HALIDES AS CATALYSTS
AEET/CD/18 N64-15712 07-07

KINETIC & THERMODYNAMIC PROPERTIES OF REFRACTORY METAL BORIDES & NITRIDES
UCRL-7559 N64-17073 09-19

ELECTRICAL PROPERTIES OF TRANSITION METAL CARBIDES AND NITRIDES
C-21 N64-19548 12-25

SYNTHESIS AND PROPERTIES OF FIBROUS SILICON NITRIDE
BM-RI-6467 N64-22101 15-07

STABILITY OF SELECTED OXIDES, NITRIDES AND BORIDES IN MOLYBDENUM TO 4000 DEG F
SSD-TDR-64-88 N64-22560 15-18

PLASMA-SPRAYED OXIDE & VAPOR-DEPOSITED NITRIDE PROTECTIVE COATINGS ON TUNGSTEN N64-27015 19-17

CHEMICAL PROPERTIES AND QUALITATIVE ANALYSIS OF CARBIDES, BORIDES, AND NITRIDES
FTD-TT-63-814/1&2 N64-30689 22-07

PROPERTIES OF SEVERAL CARBIDE AND NITRIDE REFRACTORIES
LA-2942 N64-31060 22-18

SYNTHESIS, FABRICATION, AND CHEMICAL REACTIONS OF PLUTONIUM MONONITRIDE
BMI-1693 N64-31271 22-07

SYNTHESIS AND PHYSICAL-CHEMICAL PROPERTIES OF RARE EARTH CARBIDES, NITRIDES, AND SILICIDES
JPRS-26877 N64-32884 24-07

NITRILE
ELECTRON SPIN RESONANCE STUDY OF FREE RADICALS PRODUCED DURING COBALT-60 GAMMA IRRADIATION OF ACETONITRILE
ASD-TDR-63-785 N64-11924 03-23

INFRARED SPECTRA OF METHOXYACETONITRILE AND METHYL-CHLOROMETHYL-ETHER IN SOLUTION AND IN VAPOR AND LIQUID STATES
AFCRL-63-758 N64-12293 03-19

CYANIDE AND NITRILE COMPOUNDS FOR THERAPY OF RADIATION EXPOSURE IN MICE N64-13505 05-16

INFLUENCE OF DISTRIBUTION OF COMPOSITION ON LIGHT SCATTERING OF STYRENE-ACRYLONITRILE COPOLYMER
REPT.-381 N64-24958 17-23

CYANIDES AND NITRILES FOR RADIATION THERAPY - MEDICAL RADIOLOGY
JPRS-26887 N64-32306 23-16

NITRITE
S NITRIDE

NITRO COMPOUND
POLAROGRAPHIC STUDY OF OXIDATION INHIBITORS - NITRODIPHENYLAMINES AND NITRORESORCINOLS
RK-TR-63-26 N64-18191 10-07

CHEMOELECTRIC ENERGY CONVERSION FOR NONAQUEOUS BATTERIES - IONIC MELT ELECTROCHEMISTRY, REDUCTION OF AROMATIC NITRO COMPOUNDS, AND AMMONIA CELLS
NAVWEPS-8203 N64-29326 21-06

NITROBACTER
MECHANISM OF ELEMENTARY BIOSYNTHESIS - ENERGY-TRANSFORMING PROCESSES IN NITROBACTER

NASA-CR-55562 N64-16322 08-16

NITROBENZENE
EXTRACTION OF HYDROGEN PERCHLORATE AND NITRIC ACID INTO TRIOCTYLPHOSPHINE OXIDE FROM CARBON TETRACHLORIDE AND NITROBENZENE SOLUTIONS
UCRL-10971 N64-15243 07-07

ELECTROREDUCTION OF NITROBENZENES IN LIQUID AMMONIA SOLUTIONS N64-22882 16-06

PRINCIPAL INFRARED ABSORPTION BANDS OF DERIVATIVES OF DINITROBENZENE AND TRINITROBENZENE
NOLTR-64-62 N64-29621 21-07

NITROCELLULOSE
QUANTITATIVE INFRARED METHOD FOR ANALYSIS OF PIGMENTED PHTHALIC ALKYD-NITROCELLULOSE LACQUERS WITHOUT SEPARATION OF NITROCELLULOSE
CCL-154 N64-17460 09-07

COMBUSTIBLE MANDREL FROM NITROCELLULOSE PAPER
PA-TM-1324 N64-21749 15-26

FLUID BALL SOLUBILITY AND CURING PROCESS FOR NITROCELLULOSE-BASED PROPELLANTS
RK-TR-64-1 N64-21794 15-26

NITROGEN
REAL GAS HYPERSONIC NOZZLE FLOW PARAMETERS FOR NITROGEN IN THERMODYNAMIC EQUILIBRIUM
NASA-TN-D-2019 N64-10057 01-02

CONVECTIVE HEATING IN NITROGEN AND CARBON DIOXIDE PLANETARY ATMOSPHERES
RAD-TM-63-72 N64-10315 01-13

EXAMINATION OF CODIFFUSION OF TWO CHEMICALLY ACTIVE GASES INTO HARD METAL NITROGEN-CARBON-CHROMIUM SYSTEM
N64-10674 02-18

ANNIHILATION OF VACANCIES DURING CREEP WITH REPLACEMENT BY NITROGEN, BORON, OR CARBON AS A FACTOR IN INCREASED HEAT-RESISTANCE IN STEEL
N64-10792 02-18

REMOVAL OF URANIUM HEXAFLUORIDE FROM GAS STREAM WITH NITROGEN BY SINGLE LAYER OF SODIUM FLUORIDE PELLETS - DIFFERENTIAL EQUATION EXPLANATION
ORNL-3494 N64-11342 02-25

NITRIDATION OF CERIUM IN QUARTZ REACTOR WITH AMMONIA & NITROGEN TO FORM CERIUM NITRIDE
JPRS-18919 N64-11347 02-07

CHARGE TRANSFER CROSS SECTION FOR NITROGEN ION AND ATOM AT 2650 ELECTRON VOLTS WITH TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-63-709 N64-11934 03-23

HEAT CONTENT-ENTROPY DIAGRAMS FOR COMBUSTION PRODUCTS OF HYDROCARBON & NITROGEN GAS MIXTURE
N64-11973 03-26

ABSORPTION OF NITROGEN, HYDROGEN, AND CARBON GASES BY NIOBIUM TANTALUM
FTD-TT-62-1764/1&2 N64-12313 03-23

ARTIC LOW TEMPERATURE TEST OF YUH-1D HELICOPTER
AFCRL-63-343 N64-12679 04-09

ALPHA PARTICLE ENERGY SPECTRA FROM DEUTERON-ALPHA REACTIONS ON LITHIUM, BERYLLIUM, CARBON, NITROGEN, & OXYGEN USING 24-MEV DEUTERONS
UCRL-10993 N64-13217 04-23

IODIDE REFINING OF ZIRCONIUM AND ZIRCONIUM IODIDE FOR REDUCTION OF NONMETALLIC IMPURITIES - CARBON, OXYGEN, NITROGEN, AND HYDROGEN N64-13727 05-17

HYDROGEN AND NITROGEN EFFECT ON CORROSION RESISTANCE OF ZIRCONIUM METAL IN WATER VAPOR
N64-13728 05-07

REACTION OF MICROWAVE-ACTIVATED NITROGEN WITH GRAPHITE YIELDING CYANOGEN, HYDROGEN CYANIDE, & CARBON DIOXIDE
C-19 N64-14018 05-07

THERMODYNAMIC PROPERTIES OF ARGON, NITROGEN AND OXYGEN PLASMAS
AEDC-TDR-64-12 N64-14139 05-24

MOLECULAR NITROGEN PRODUCTION FROM PHOTOLYSIS OF VARIOUS NITRIC OXIDES IN HYDROGEN LAMP
NASA-CR-55308 N64-14292 06-07

SPECTRAL COMPONENTS OF RADIATION FROM RUBY LASER OPERATING AT LIQUID NITROGEN TEMPERATURE
FTD-MT-63-100/1&2&3&4 N64-14383 06-25

VAPOR PRESSURE, HEAT OF FORMATION, & SUBLIMATION OF NITROGEN & FLUORINE
MR-15 N64-14404 06-19

THERMODYNAMIC PROPERTIES OF NITROGEN BETWEEN 114 AND 540-DEGREES R.
NBS-TN-129-A N64-14516 06-19

CAVITATION AND EFFECTIVE LIQUID TENSION OF NITROGEN IN A TUNNEL VENTURI
NASA-TN-D-2088 N64-15160 07-11

FRICTION OF METALS, LUBRICATING COATINGS, AND CARBONS IN LIQUID NITROGEN AND HYDROGEN
N64-15236 07-17

GAS CHROMATOGRAPHIC ANALYSIS OF LOW MOLECULAR WEIGHT TRACE HYDROCARBONS PRESENT IN OXYGEN AND NITROGEN
WRE-TN-CPD-73 N64-15565 07-07

CORRELATION OF DISSOLVED NITROGEN IN WHOLE BLOOD WITH SELECTED WHOLE BLOOD CONSTITUENTS
SAM-TDR-63-92 N64-15743 07-16

STANDARDIZED TITRATION OF OXYGEN AND NITROGEN WITH NITROGEN DIOXIDE AND NITROGEN OXIDE FOR GAS PHASE CONCENTRATION DETERMINATIONS
SR-4-3 N64-15751 07-24

EFFECTS ON DECOMPRESSION SICKNESS OF BREATHING OXYGEN OR OXYGEN-NITROGEN MIXTURES PRIOR TO RAPID DECOMPRESSION AND PROLONGED LOW PRESSURE
N64-15856 07-16

DISCHARGE COEFFICIENTS OF ORIFICE FLOW OF LIQUID HYDROGEN AND NITROGEN INTO VACUUM
NASA-CR-55329 N64-15880 07-11

AIR, NITROGEN, AND HYDROGEN GAS-SIDE CONVECTIVE HEAT TRANSFER TO NUCLEAR ROCKET NOZZLES USING SHOCK TUBE TECHNIQUES
NASA-CR-55712 N64-15893 07-13

HIGH TEMPERATURE SORPTION OF OXYGEN AND NITROGEN BY NIOBIUM IN ULTRAHIGH VACUUM
TID-19489 N64-16069 07-18

SILICON, NITROGEN, AND OXYGEN IMPURITIES EFFECT ON CORROSION AND HYDROGEN ABSORPTION OF ZIRCALOY-2
WAPD-283 N64-16259 08-18

SPACE STORABILITY OF PRESSURIZED NITROGEN AND HYDROGEN
NASA-CR-55841 N64-16714 08-06

ARGON AND NITROGEN SHOCK WAVE THICKNESSES
AVCO-EVERETT RES. REPT.-172 N64-16865 08-11

ROLE OF NITROGEN IN HIGH TEMPERATURE OXIDATION OF CHROMIUM IN AIR N64-17069 09-07

REACTION DIFFUSION IN CHROMIUM-NITROGEN SYSTEM
N64-17070 09-07

STRUCTURE AND PROPERTIES OF CARBIDIZED CHROMIUM PLATING IN ATMOSPHERE CONTAINING NITROGEN
N64-17071 09-18

SCINTILLATIONS IN ARGON AND NITROGEN
N64-17111 09-23

THERMODYNAMIC PROPERTIES OF NITROGEN IN CHEMICAL EQUILIBRIUM INCLUDING SECOND VIRIAL CORRECTIONS AT VERY HIGH TEMPERATURES
AEDC-TDR-63-162 N64-17127 09-23

CONDENSATION OF NITROGEN IN HOTSHOT TUNNELS
AEDC-TDR-64-35 N64-17521 09-10

AERODYNAMIC CHARACTERISTICS OF TWO PLANETARY ENTRY CONFIGURATIONS IN AIR & CARBON DIOXIDE/NITROGEN MIXTURES AT HYPERSONIC SPEED
NASA-CR-53232 N64-17575 09-02

DETERMINATION OF BLOOD NITROGEN CONTENT BY GAS CHROMATOGRAPHY N64-17937 10-16

MEASUREMENT OF OXYGEN, CARBON DIOXIDE, & NITROGEN GAS PRESSURES IN ALVEOLUS AND ARTERY REGIONS N64-17940 10-16

NITROGEN GAS IN BIOLOGICAL PROCESSES OF THE LUNG N64-17952 10-16

ELECTRON POTENTIAL RETARDATION PHOTOEMITTED BY NITROGEN, OXYGEN, AND CARBON MONOXIDE
D1-82-0315 N64-18004 10-23

BLUE DAYGLOW EMISSION OF NITROGEN ION OBSERVED WITH PHOTOMETER
NASA-TN-D-2249 N64-18081 10-12

TRITIUM, HYDROGEN, AND NITROGEN CONVERSION
NASA-CR-53424 N64-18121 10-12

ABSORPTION SPECTRUM OF PINK AFTERGLOW OF NITROGEN IN VACUUM ULTRAVIOLET N64-18166 10-24

GAS ADSORPTION ON ORGANIC SURFACE - NITROGEN AND CARBON MONOXIDE ON CYCLOTETRAMETHYLENE TETRANITRAMINE /HMX/
PA-TR-3092 N64-18381 10-19

CALCULATION OF CROSS SECTIONS FOR VIBRATIONAL EXCITATION OF CARBON DIOXIDE BY COLLISION WITH NITROGEN
GDA-DBE-64-004 N64-18624 11-23

AERODYNAMIC DRAG OF BLUNT CONES IN HYPERSONIC RAREFIED FLOW OF NITROGEN AND ARGON
AEDC-TDR-64-60 N64-19067 11-02

HARTLEY BAND EXTINCTION COEFFICIENTS OF OZONE IN GAS PHASE AND IN LIQUID NITROGEN, CARBON MONOXIDE, AND ARGON
NASA-CR-53898 N64-19794 12-23

NITROGEN SOLUBILITY IN WATER AND EXTRACTED HUMAN FAT - GAS CHROMATOGRAPHIC DETERMINATION
SAM-TDR-64-1 N64-19822 12-16

THERMODYNAMIC PROPERTIES OF DISSOCIATED AND IONIZED ARGON, NITROGEN, & OXYGEN GASES FOR TEMPERATURES TO 35,000 DEG K N64-19828 12-23

CORRELATION OF FILM-BOILING HEAT TRANSFER COEFFICIENTS OBTAINED WITH LIQUID HYDROGEN, NITROGEN, AND FREON IN FORCED FLOW
NASA-TN-D-2294 N64-20284 13-13

REACTANT PARTICLES FOR USE IN HIGH TEMPERATURE OXYGEN-NITROGEN SEPARATION DEVICE - OXIDATION MECHANISM OF COBALT OXIDE
REPT.-471 N64-20316 13-07

STATIC ATOMIC DISPLACEMENT AND THERMAL EXPANSION MEASUREMENTS OF TITANIUM-NITROGEN COMPOSITE STRUCTURES
C-22 N64-20574 13-25

ULTRAVIOLET ABSORPTION SPECTRA OF OXYGEN IN LIQUID AND CRYSTALLINE ARGON AND NITROGEN N64-20596 13-23

NITROGEN AND HYDROGEN IMPURITIES IN LIQUID METAL CORROSION OF SOLID METALS N64-20790 14-07

NANOSECOND PULSE BREAKDOWN OF AIR, HELIUM, AND NITROGEN - STUDY OF GASEOUS BREAKDOWN PHENOMENA FOR DESIGNING HIGH RESOLUTION RADAR SYSTEM
RADC-TDR-64-38 N64-21072 14-24

ABLATION BEHAVIOR OF CHARRING MATERIAL IN HIGH VELOCITY STREAMS OF ARC HEATED AIR, NITROGEN, AND ARGON
NASA-RP-179 N64-21278 14-13

INFRARED ABSORPTION BANDS FOR NITROGEN-HYDROGEN AND PHOSPHORUS-HYDROGEN BONDS
AD-434269 N64-21321 14-07

MASS SPECTROMETRY OF IONIZATION PROCESSES IN NITROGEN - AURORAL AFTERGLOW PROCESS
AFCRL-64-259 N64-21416 14-12

DISTRIBUTION OF HELIUM, NITROGEN AND ARGON IN EARTH ATMOSPHERE AT HIGH ALTITUDES N64-21636 15-12

COMPUTATION OF TEST SECTION, AFTER SHOCK, AND STAGNATION CONDITIONS IN HOTSHOT TUNNELS USING NITROGEN AT STAGNATION TEMPERATURES
AEDC-TDR-64-50 N64-21714 15-13

VIBRATIONAL RELAXATION AND RECOMBINATION OF NITROGEN AND AIR IN HYPERSONIC NOZZLE FLOWS
REPT.-63-RL-/3429C/ N64-21734 15-11

NEW FREELY LIVING NITROGEN FIXING MICROORGANISMS - SOIL ENRICHMENT
FTD-TT-63-1010/1 N64-22141 15-16

PRODUCTION OF LIQUID OXYGEN USING AVERAGE PRESSURE SYSTEM AND NITROGEN COOLING
FTD-TT-63-113/1&2&4 N64-22190 15-26

GAS DYNAMIC PROPERTIES FOR INCIDENT AND REFLECTED SHOCK WAVES IN IONIZED NITROGEN
AEDC-TDR-64-104 N64-22298 15-24

SPECIFIC HEAT AND SOUND VELOCITY FOR IMPERFECT NITROGEN AT HIGH TEMPERATURES
AEDC-TDR-64-113 N64-22605 15-11

THERMODYNAMICS - SPECIFIC HEAT AND SOUND SPEED DATA FOR IMPERFECT AIR AND NITROGEN
AEDC-TDR-64-114 N64-22606 15-11

DISTRIBUTION OF HELIUM, NITROGEN, AND ARGON IN EARTH ATMOSPHERE TO 430 KILOMETERS
NASA-TT-F-8566 N64-23038 16-12

GRAPHITE HEATER FOR HIGH PRESSURE NITROGEN OPERATION
AFOSR-63-5440 N64-23137 16-19

EFFECT OF MAGNETIC FIELD ON TWO-PHASE FLOW OF SODIUM-POTASSIUM ALLOY AND NITROGEN IN RECTANGULAR CHANNEL
ANL-6854 N64-23284 16-24

NITROGEN-FIXATION, CHLOROPHYLL, AND TEMPERATURE CONTROL STUDIES IN ALGAE AND MICROORGANISMS
FTD-TT-63-1016/1&2 N64-23655 16-16

OPTIMAL CONCENTRATION OF METALS AND RADICALS ON GROWTH AND NITROGEN FIXATION OF BLUE-GREEN ALGAE - BOTANY N64-23656 16-16

POTENTIAL ENERGY CURVES FOR ELECTRONIC STATES OF CHARGED AND NEUTRAL NITROGEN, OXYGEN, AND NITROGEN OXIDE MOLECULES
RM-4034-PR N64-25381 17-23

MOMENTUM TRANSFER AND INELASTIC COLLISION CROSS SECTIONS FOR ELECTRONS IN NITROGEN USING TRANSPORT COEFFICIENTS
TDS-64-928-113-P4 N64-25502 17-23

EQUILIBRIUM OCCUPATION NUMBERS & SPECIES CONCENTRATION FOR AIR, NITROGEN, & OXYGEN TO 24000 DEG K
REPT.-6-74-64-33 N64-25610 17-19

LOW ENERGY ABSORPTION AND BREMSSTRAHLUNG CROSS SECTIONS FOR NITROGEN
REPT.-1565 N64-25662 17-23

APPLICATION OF LIQUID NITROGEN TO COMMERCIAL REFRIGERATION USES N64-26017 18-13

SCALAR ELECTRICAL CONDUCTIVITIES FOR NITROGEN AND ARGON PLASMA IN THERMAL EQUILIBRIUM
AEDC-TDR-64-119 N64-26101 18-24

ADSORPTION OF NITROGEN ON TUNGSTEN WIRE AND CARBON MONOXIDE ON MOLYBDENUM
TR-64-255.7 N64-26215 18-23

POLARIZATION OF NEUTRONS FROM CARBON AND NITROGEN CHEMICAL REACTION
UCRL-7676 N64-27043 19-23

THERMODYNAMIC AND MECHANICAL PROPERTIES OF NIOBIUM-NITROGEN AND NIOBIUM-ZIRCONIUM-NITROGEN ALLOYS
ML-TDR-64-134 N64-27461 19-18

RESISTOMETRIC INVESTIGATION OF RECOVERY OF DILUTED ALUMINUM-MAGNESIUM ALLOYS COLD-WORKED AT LIQUID NITROGEN TEMPERATURE
REPT.-13.178/6401.105 N64-27691 19-18

MODIFIED KJELDAHL METHOD FOR CHEMICAL ANALYSIS OF NITROGEN IN POTASSIUM
R63FPD302 N64-28065 20-07

ONE-INCH-SQUARE LINEAR D-C PLASMA ACCELERATOR USING CESIUM SEEDED NITROGEN
AIAA PAPER-64-699 N64-28077 20-24

TRANSPORT PROPERTIES OF NITROGEN AND AIR AT HIGH TEMPERATURES N64-28185 20-11

CRYOPUMPING CAPTURE COEFFICIENTS OF TWO NITROGEN-OXYGEN GAS MIXTURES
AEDC-TDR-64-150 N64-28578 20-23

LIQUID-VAPOR EQUILIBRIUM PROPERTIES OF BINARY AND TERNARY SYSTEMS OF ARGON, NITROGEN, AND OXYGEN
APL-TDR-64-64 N64-28600 20-07

COMPILATION OF NEUTRON CROSS SECTIONS FOR OXYGEN AND NITROGEN PERTINENT TO RADIATION SHIELDING AND NEUTRON TRANSPORT STUDIES
NARF-62-17T N64-28906 20-23

SELF CONSISTENT FIELD CALCULATIONS OF GROUND, IONIZED, AND EXCITED STATES OF NITROGEN AND OXYGEN
NASA-CR-58343 N64-28990 20-23

BINARY COUETTE FLOW WITH HYDROGEN INJECTED INTO CARBON DIOXIDE AND NITROGEN STREAMS FOR REENTRY COOLING SYSTEM
NASA-CR-58497 N64-29200 21-11

DIFFERENCES IN THERMODYNAMIC AND TRANSPORT PROPERTIES BETWEEN CARBON DIOXIDE AND NITROGEN - LOW DENSITY WIND TUNNEL NOZZLE DESIGN
NASA-CR-58314 N64-29359 21-34

SHELL ENERGY LEVELS FOR NITROGEN 15 AND OXYGEN 15
NOLTR-64-46 N64-29584 21-23

INTERACTION ENERGIES, CHARGE EXCHANGE CROSS SECTIONS, & DIFFUSION CROSS SECTIONS FOR COLLISIONS OF ATOMS OF NITROGEN & OXYGEN WITH CORRESPONDING POSITIVE IONS N64-29715 21-11

DIFFUSION & SOLUBILITY OF NITROGEN IN CHROMIUM BY INTERNAL FRICTION MEASUREMENTS
ARL-64-88 N64-29806 21-18

INELASTIC, DISSOCIATIVE, AND CHARGE EXCHANGE SCATTERING OF PROTONS BY NITROGEN
AFCRL-64-338 N64-29997 21-23

ISOTOPE SHIFTS AND VIBRATIONAL STRUCTURE IN SOME WEAKER SYSTEMS OF NITROGEN N64-30306 22-23

ACCURATE ANALYTICAL SELF-CONSISTENT FIELD /SCF/ FUNCTIONS FOR NEUTRAL AND IONIZED STATES OF OXYGEN AND NITROGEN ATOMS N64-30308 22-23

SEPARATION OF PURE HELIUM FROM NATURAL GASES BY DEEP COOLING
RSIC-226 N64-30966 22-07

SOUND ATTENUATION IN ATMOSPHERES OF AIR, NITROGEN, OXYGEN, HELIUM AND 50-50 HELIUM-OXYGEN MIXTURES AT LOW PRESSURES
SAM-TDR-64-43 N64-31051 22-16

QUANTUM DEFECT METHOD FOR CALCULATING CROSS SECTIONS OF PHOTOIONIZATION OF NITROGEN AND OXYGEN ATOMS AND FIRST IONS OF OXYGEN AND NITROGEN
TR-64-028 N64-31132 22-23

PROBABILITY OF COLLISION FOR MOMENTUM TRANSFER OF SLOW ELECTRONS IN NITROGEN PLASMA AFTERGLOW
NASA-CR-104 N64-31202 22-24

NITROGEN GAS LUBRICATED JOURNAL AND THRUST BEARINGS FOR APPLICATION IN HIGH TEMPERATURES AND LOW FLOW RATES
MTI-64TR35 N64-32122 23-17

HIGH PRESSURE RESEARCH ON ORGANIC FLUOROCARBON AND INORGANIC SYNTHESIS IN BORON-PHOSPHORUS-NITROGEN-CARBON SYSTEM
AROD-3177-3 N64-32369 23-07

IONIZATION CROSS SECTIONS FOR NEUTRAL HELIUM ATOMS ON IMPACT WITH HELIUM, NEON AND NITROGEN N64-32384 23-11

THERMAL PROPERTIES OF IMPERFECT NITROGEN AT CONSTANT PRESSURE
AEDC-TDR-64-213 N64-32575 23-13

MEASUREMENT OF DIFFUSIVE SEPARATION OF ARGON AND NITROGEN BY RADIO FREQUENCY MASS SPECTROMETER
NASA-RP-321 N64-32639 23-12

FLUORINE AND NITROGEN ANIONS AND CATIONS IN SOLUTIONS OF NITROGEN-FLUORINE COMPOUNDS
HQ-76-6 N64-32684 23-07

RELATIVE POPULATIONS OF VIBRATION LEVEL AND ROTATIONAL TEMPERATURE OF NITROGEN RADICAL SYSTEM N64-32715 24-12

CHEMICAL REACTIVITY OF HYDROGEN, NITROGEN, AND OXYGEN ATOMS AT CRYOGENIC TEMPERATURES
NASA-CR-58968 N64-32892 24-07

PHYSICAL AND CHEMICAL PROPERTIES OF IRON-CHROMIUM-NITROGEN ALLOYS
AD-445860 N64-32983 24-18

INTERPOLATIONS OF IMPERFECT NITROGEN THERMODYNAMIC DATA AT CONSTANT ENTROPY
AEDC-TDR-64-212 N64-33114 24-13

NITROGEN INJECTION IN HYPERSONIC WAKE BASE REGION
MEMO-71 N64-33476 24-11

ANALYTICAL METHODS FOR OXYGEN, NITROGEN, AND CARBON IMPURITIES IN CESIUM METAL - NEUTRON ACTIVATION, GAS CHROMATOGRAPHY, PHOTOMETRY, AND INFRARED ANALYZER TECHNIQUES
ML-TDR-64-199 N64-33912 24-07

REACTIONS OF BERYLLIUM WITH ALUMINUM, NITROGEN, BORON, AND PHOSPHORUS
NAVWEPS-8204 N64-34003 24-18

NITROGEN COMPOUND
SA NITROGEN-FLUORINE COMPOUND
SYNTHESIS AND PROPERTIES OF POLYMERS OF NITROGEN-ALKALI DERIVATIVES OF CYCLIC SILAZANES
NASA-CR-52971 N64-11802 03-07

ALKYL NITRATE NITRATION FOR PREPARATION OF ALPHA-MONONITRO-KETONES - SOLID SMOKELESS PROPELLANT
RR-25 N64-12868 04-07

SURVIVAL TIME OF MICE PROTECTED WITH NITRO-SUBSTITUTED HYDROCARBONS AFTER LETHAL DOSE OF X-RAYS N64-13507 05-16

SILICON CRYSTALS, NITROGEN-SULFUR SYSTEMS, PHOTOCHEMISTRY, PLASMAS, AND CHELATES USED IN ENERGY CONVERSION SYSTEMS
AFCRL-63-940 N64-15489 07-01

PROPERTIES OF NITROGEN-SULFUR SYSTEMS N64-15491 07-25

STANDARDIZED TITRATION OF OXYGEN AND NITROGEN WITH NITROGEN DIOXIDE AND NITROGEN OXIDE FOR GAS PHASE CONCENTRATION DETERMINATIONS

SR-4-3 N64-15751 07-24

CHEMICAL REACTIONS OF OXIDES AND FLUOROXIDES OF NITROGEN
AD-429480 N64-15947 07-07

ADAPTATION AND EXTENSION OF INFRARED ABSORBANCE RATIO METHOD FOR ESTIMATION OF VACUUM DRIED FILMS OF NITROGEN RESIN MODIFIED PHTHALIC ALKYD RESINS
CCL-153 N64-16464 08-17

INVESTIGATION OF SILICON-NITROGEN POLYMERS
AD-432136 N64-16841 08-07

CRYOPUMPING OF NITROUS OXIDE FOR CHAMBER PRESSURE PREDICTIONS
AEDC-TDR-63-267 N64-17520 09-19

SYNTHESIS OF ELASTOMERS CONTAINING SILICON-NITROGEN BONDS IN MAIN CHAIN
AD-432392 N64-18309 10-07

SYNTHESIS OF NEW SOLID COMPOUNDS CONTAINING NITROGEN, OXYGEN, & FLUORINE
AD-434866 N64-18782 11-07

ORGANIC CHEMISTRY - CHEMICAL REACTIONS OF POLYMERIC PHOSPHONITRYLCHLORIDES
FTD-TT-63-1101/1&2&4 N64-19758 12-07

SYNTHESIS OF ELASTOMERS CONTAINING SILICON-NITROGEN BONDS IN MAIN CHAIN
QPR-8 N64-20145 13-07

ENERGIES AND WAVE FUNCTIONS OF NITROGEN OXIDE FREE RADICAL AND MOLECULAR STRUCTURES
AFCRL-64-123 N64-20162 13-23

TIME AND DOSE DEPENDENCY OF NITROGEN COMPOUND EXCRETION FROM ISOLATED FROG LIVER AFTER WHOLE-BODY IRRADIATION
NIJS-R-422 N64-21048 14-14

NITROGEN COMPOUNDS EXCRETED BY ISOLATED LIVER OF NONIRRADIATED AND IRRADIATED FROGS
NIJS-R-421 N64-21056 14-16

ENTRAPMENT AND LOSS OF ELECTRONS DURING PASSING OF FAST ATOMS IN MOLECULAR GAS
FTD-TT-63-1055/1&2 N64-23313 16-23

CHEMICAL REACTION OF AMINO NITROGEN - NITROLYSIS OF HEXAMETHYLENETETRAMINE
PA-TR-3116 N64-24952 17-07

SYNTHESIS OF ETHERS, PHENOLS, AND RELATED COMPOUNDS HAVING NITROGEN-CONTAINING GROUPS
AD-439242 N64-25112 17-07

POTENTIAL ENERGY CURVES FOR ELECTRONIC STATES OF CHARGED AND NEUTRAL NITROGEN, OXYGEN, AND NITROGEN OXIDE MOLECULES
RM-4034-PR N64-25381 17-23

POLYMER SYNTHESIS OF PYRAZOLE COMPOUNDS
FTD-TT-64-218/1&2&4 N64-25466 17-19

FLUOROCARBON COMPOUNDS WITH NITROGEN-FLUORINE BONDS
AROD-007-20 N64-29441 21-07

SILICON-NITROGEN POLYMERS FOR PROTECTIVE COATINGS ON SPACE VEHICLES
NASA-CR-56415 N64-29549 21-07

PHOSPHONITRILE POLYMERS WITH HIGH TEMPERATURE STABILITY
QR-3 N64-30535 22-07

N-METHYL SUBSTITUTED SILAZANES & SILICON-NITROGEN COMPOUNDS WITH SILICON-METHYLENE-SILICON GROUPING
AD-420486 N64-31234 22-07

THEORETICAL AND QUANTUM CHEMISTRY OF ENERGETIC NITROGEN, OXYGEN, FLUORINE COMPOUNDS - FUNDAMENTAL BONDING AND BEHAVIOR
QTR-2 N64-32095 23-07

ELECTROCHEMISTRY AND MASS SPECTROMETRY OF NITROGEN FLUORINE COMPOUNDS
HRC-64-4 N64-32982 24-07

QUANTUM CHEMISTRY OF ENERGETIC NITROGEN-OXYGEN-FLUORINE COMPOUNDS
AD-450087 N64-33973 24-07

NITROGEN FLUORIDE
HYDROLYSIS OF NITROGEN TRIFLUORIDE
HQ-76-4 N64-16337 08-07

FLASH PHOTOLYSIS OF NITROGEN TRIFLUORIDE USING SAMPLE CELL AND FLASH TUBE ARRANGEMENT
AD-430906 N64-16498 08-07

MODIFICATION OF FLASH PHOTOLYSIS APPARATUS FOR USE IN VACUUM ULTRAVIOLET STUDY OF NITROGEN FLUORIDES
TM-1496 N64-16499 08-07

HIGH ENERGY OXIDIZERS IN SOLUTION - HYDROGEN FLUORIDE AND NITROGEN FLUORIDE
AD-430938 N64-16688 08-07

ELECTRONIC STRUCTURES OF NITROGEN FLUORIDES
HRC-64-1 N64-18628 11-07

SHOCK TUBE SYNTHESIS OF NITROGEN FLUORIDES FOR USE AS OXIDIZERS
S-13913 N64-20328 13-07

ELECTRONIC CONFIGURATION AND BEHAVIOR OF NITROGEN FLUORIDE GROUP
HRC-64-3 N64-24942 17-09

ABSORPTION BANDS OF NITROGEN FLUORIDE PRODUCED BY FLASH PHOTOLYSIS OF NITROGEN DIFLUORIDE AND EMISSION BANDS OF NITROGEN FLUORIDE PRODUCED BY FAST CAPACITOR DISCHARGE
TM-1531 N64-25578 17-07

ELECTRONIC ABSORPTION SPECTRUM OF NITROGEN-FLUORIDE RADICAL PRODUCED BY PHOTOLYSIS OF NITROGEN DIFLUORIDE
EXP-452/223/ N64-27773 19-07

SYNTHESIS OF OXIDIZERS BY NITROGEN FLUORIDE REACTIONS WITH SIMPLE MOLECULES AT ELEVATED TEMPERATURES USING CHEMICAL SHOCK TUBE
S-13921 N64-32472 23-26

NITROGEN-FLUORINE COMPOUND
PREPARATION OF FLUOROCARBON COMPOUNDS WITH NITROGEN-FLUORINE BONDS
AD-423084 N64-12267 03-07

HYDROLYSIS OF NITROGEN-FLUORINE COMPOUND WITH SODIUM HYDROXIDE
HQ-76-3 N64-13077 04-07

ELECTRONIC CONFIGURATION & BEHAVIOR OF NITROGEN-FLUORINE GROUP
AD-425473 N64-13310 04-07

CHEMICAL BEHAVIOR OF INORGANIC NITROGEN-FLUORINE COMPOUNDS AND SYNTHESIS OF METAL DIFLUOROAMINE COMPOUNDS - OXIDIZER CHEMISTRY
EC-599 N64-17645 09-26

CHEMICAL REACTIONS AND HYDROLYSIS OF NITROGEN-FLUORINE COMPOUNDS
HQ-76-5 N64-21461 14-07

DISSOCIATION CHEMISTRY OF NITROGEN-FLUORINE COMPOUNDS
EXP-223 N64-24916 17-07

ELECTRODE FOR ELECTROCHEMICAL FLUORINATION - SYNTHESIS OF NITROGEN-FLUORINE COMPOUNDS IN ANHYDROUS HYDROGEN FLUORIDE
TRACOR-64-228-U N64-29897 21-07

INORGANIC OXIDIZERS - STABLE IONS OF OXYGEN-FLUORINE AND NITROGEN-FLUORINE COMPOUNDS
RPL-TDR-64-98 N64-32553 23-26

PREPARATION AND CHEMICAL REACTIONS OF ORGANIC NITROGEN-FLUORINE COMPOUNDS
AD-445279 N64-32597 23-07

FLUORINE AND NITROGEN ANIONS AND CATIONS IN SOLUTIONS OF NITROGEN-FLUORINE COMPOUNDS
HQ-76-6 N64-32684 23-07

THERMAL DECOMPOSITION OF NITROGEN FLUORINE RADICAL IN SHOCK TUBE COUPLED TO TIME-OF-FLIGHT MASS SPECTROMETER
AR-IS-64 N64-33494 24-07

IONIZATION AND CONDUCTIVITY OF INORGANIC NITROGEN-FLUORINE COMPOUNDS FOR PROPELLANT OXIDIZERS
EC-670 N64-33926 24-07

NITROGEN OXIDE
ABSORPTION COEFFICIENT OF NITROGEN DIOXIDE FOR WAVELENGTHS BETWEEN 2500 AND 8000 ANGSTROMS AT HIGH TEMPERATURES
DASA-1416 N64-11463 03-23

ROCKET-BORNE NITRIC OXIDE DETECTOR USING SELECTIVE PHOTOIONIZATION
DASA-1419 N64-14010 05-12

MOLECULAR NITROGEN PRODUCTION FROM PHOTOLYSIS OF VARIOUS NITRIC OXIDES IN HYDROGEN LAMP
NASA-CR-55308 N64-14292 06-07

STANDARDIZED TITRATION OF OXYGEN AND NITROGEN WITH NITROGEN DIOXIDE AND NITROGEN OXIDE FOR GAS PHASE CONCENTRATION DETERMINATIONS
SR-4-3 N64-15751 07-24

DETECTION OF SINGLY IONIZED NITRIC OXIDE IN E-REGION OF IONOSPHERE BY GROUND BASED RADAR MASS SPECTROMETRY
AFCRL-63-795 N64-15807 07-21

CHEMILUMINESENCE FROM ATOMIC OXYGEN-NITRIC OXIDE REACTION UNDER UPPER ATMOSPHERIC CONDITIONS
NASA-CR-55805 N64-16028 07-12

CHEMICAL REACTION OF NITRIC OXIDE AND OZONE IN SUPERSONIC NOZZLE
NASA-CR-53532 N64-18215 10-07

ELECTRONIC TRANSITION MOMENTS AND EFFECTS ON BAND STRENGTH - ABSORPTION OSCILLATOR STRENGTHS OF NITRIC OXIDE BETA AND GAMMA SYSTEMS
N64-18493 10-23

RADIATION EFFECT ON NITROUS OXIDE-HYDROGEN REACTION AND ULTRASONIC INSPECTION OF SHEET STEEL
N64-19264 11-01

RADIATION-INDUCED CHAIN REACTION BETWEEN NITROUS OXIDE AND HYDROGEN IN AQUEOUS SOLUTIONS
N64-19265 11-07

PHOTOLYSIS OF NITRIC OXIDE IN PRESENCE OF OLEFINS
SSD-TDR-64-82 N64-22283 15-07

PHOTOLYSIS OF NITRIC OXIDE
SSD-TDR-64-105 N64-22684 15-23

SPECTRUM ANALYSIS OF NITRIC OXIDE MOLECULE
AFCRL-64-391 N64-23277 16-23

ATOMIC OXYGEN-NITRIC OXIDE REACTIONS IN REGION OF AIRGLOW
NASA-CR-67 N64-23911 16-07

CONCENTRATION OF EXCITED OXYGEN FORMED IN FLASH PHOTOLYSIS OF NITROGEN DIOXIDE N64-24145 16-19

INTEGRATED INTENSITIES OF FUNDAMENTAL AND FIRST OVERTONE BANDS OF NITRIC OXIDE BETWEEN 1400 AND 2400 DEGREES KELVIN - INFRARED DETECTOR
GDA-DBE-64-039 N64-27575 19-13

THERMAL DECOMPOSITION OF NITROUS OXIDE IN FLOWING SYSTEM - EFFECT OF NITROGEN AND AIR ADDITIVES
ARL-64-107 N64-28574 20-11

REACTION KINETICS OF NITROGEN DIOXIDE WITH HYDRAZOIC ACID IN GAS PHASE
TIL/T-5369 N64-28805 20-07

EMISSION SPECTRUM OF VIBRATION-ROTATION BANDS OF NITRIC OXIDE IN NEAR INFRARED REGION
AFCRL-64-583 N64-30011 21-07

NITRIC OXIDE DAYGLOW MEASUREMENT BY ULTRAVIOLET SPECTROMETER ABOARD AERODEE ROCKET
JPL-TR-32-640 N64-31239 22-12

GASDYNAMICS OF NITRIC OXIDE TRAIL IN UPPER ATMOSPHERE - FIREFLY PROJECT N64-31401 23-12

NITROGEN TETROXIDE
LEAKAGE OF NITROGEN TETROXIDE OXIDIZER FROM MISSILE TANKS DUE TO CORROSION CRACKS
ME-531 N64-21815 15-26

THIN FILM SENSORS FOR DETECTION OF WATER IN LIQUID NITROGEN TETROXIDE
RTD-TDR-63-1079 N64-29311 21-15

NITROGLYCERIN
CF EXPLOSIVE
LOW VELOCITY DETONATION IN NITROGLYCERIN-ETHYLENE GLYCOL DINITRATE
AD-428376 N64-14465 06-26

EXPLOSIVE SENSITIVITY CHARACTERISTICS OF NITROGLYCERIN-ETHYLENEGLYCOL DINITRATE
PR-9 N64-23112 16-26

NITROLYSIS
CHEMICAL REACTION OF AMINO NITROGEN - NITROLYSIS OF HEXAMETHYLENETETRAMINE
PA-TR-3116 N64-24952 17-07

NITROMONOMER
CAPACITANCE DIRECT CURRENT GENERATOR
FTD-TT-61-540/1 N64-12668 04-06

NITROSO COMPOUND
PRODUCTION OF TRIFLUORONITROSOMETHANE FOR CHEMICAL RESISTANCE IN ARCTIC TEMPERATURES - NITROSO RUBBER
RD-343-02 N64-14476 06-19

CHEMICAL REACTION OF HYDROXYLAMINE WITH ISONITROACETOPHENONE
RSIC-167 N64-21585 15-07

THERMAL DECOMPOSITION OF NITROSYL PERCHLORATE
FTD-TT-63-116/16264 N64-23422 16-26

SYNTHESIS AND POLYMERIZATION OF FLUORINATED SULFUR MODIFIED NITROSO RUBBER
QR-1 N64-30494 22-07

MONOMER SYNTHESIS AND POLYMERIZATION STUDIES FOR PREPARATION OF NITROSO RUBBER
RD-343-Q4 N64-32462 23-07

NOBLE GAS
ENERGY DISTRIBUTIONS FOR ATOMS SPUTTERED FROM COPPER & POLYCRYSTALLINE SURFACES UNDER MERCURY & NOBLE GAS BOMBARDMENT
AD-424612 N64-12476 04-23

ENERGY DISTRIBUTIONS FOR ATOMS SPUTTERED FROM COPPER & POLYCRYSTALLINE SURFACES BOMBARDED BY MERCURY & NOBLE GAS IONS N64-12479 04-23

THERMOCHEMICAL PROPERTIES OF NOBLE GAS FLUORIDES
N64-18809 11-13

DISTRIBUTION OF NOBLE GAS ELEMENTS IN PLANETARY ORIGIN MODEL
RM-3977-PR N64-21034 14-05

NOBLE GAS PLASMAS & EMITTER MATERIALS FOR NUCLEAR THERMIONIC CONVERTERS N64-22980 16-09

THERMOCONDUCTIVITY OF NOBLE GASES IN CONSTANT AREA SHOCK TUBE
NASA-CR-58283 N64-29001 20-13

NOBLE METAL
BEHAVIOR OF NOBLE METALS AND THEIR ALLOYS WITH OXYGEN
RAE-TRANS-1061 N64-25536 17-18

BIBLIOGRAPHY - RADIATION EFFECTS ON NOBLE METALS
UCRL-7810 N64-28739 20-25

MECHANICAL RELIABILITY AND THERMOELECTRIC STABILITY OF NOBLE METAL THERMOCOUPLES AT VERY HIGH TEMPERATURES & UNDER INTENSE NUCLEAR RADIATION
SEG-TDR-64-7 N64-29651 21-15

NOCTILUCENT CLOUD
NATURE, WAVE MOTION, APPEARANCE, PROBLEMS, AND METHODS OF STUDYING NOCTILUCENT CLOUDS
NASA-TT-F-84 N64-10059 01-21

NATURE OF NOCTILUCENT CLOUDS N64-10060 01-21

WAVE MOVEMENTS AND METEOROLOGICAL CONDITIONS IN REGARD TO APPEARANCE OF NOCTILUCENT CLOUDS
N64-10061 01-21

DUST AND CONDENSATION HYPOTHESES AS EXPLANATIONS OF NATURE OF NOCTILUCENT CLOUDS
N64-10062 01-21

PROBLEMS AND METHODS OF STUDYING NOCTILUCENT CLOUDS BY VISUAL AND PHOTOMETRIC MEANS
N64-10063 01-21

FREQUENCY OF APPEARANCE OF NOCTILUCENT CLOUDS OVER WESTERN SECTOR OF USSR N64-10064 01-21

PHOTOMETRIC CONDITIONS IN RESPECT TO VISIBILITY OF NOCTILUCENT CLOUDS N64-10065 01-21

PARTICLE SAMPLING FROM NOCTILUCENT CLOUDS USING SOUNDING ROCKETS N64-15558 07-21

NOCTILUCENT CLOUDS AND COSMIC DUST ON EARTH
JPRS-25011 N64-23514 16-12

ORIGIN AND NATURE OF NOCTILUCENT CLOUDS
N64-23515 16-12

NOCTILUCENT CLOUDS
FTD-TT-62-1341/1&2&4 N64-23665 16-12

FREQUENCY OF NOCTILUCENT CLOUDS IN NORTHERN HEMISPHERE N64-23666 16-12

BRIGHT NOCTILUCENT CLOUD APPEARANCE - SUMMER 1959
N64-23667 16-12

BRIGHT NOCTILUCENT CLOUD APPEARANCE, SUMMER 1959 - PHOTOMETRIC & COLORIMETRIC OBSERVATION
N64-23668 16-12

TWILIGHT SKY & NOCTILUCENT CLOUD PHOTOMETRIC OBSERVATION N64-23669 16-12

NOCTILUCENT CLOUDS IN UPPER ATMOSPHERE AND GEOLOGICAL DEVELOPMENT OF EARTH CRUST
JPRS-24970 N64-24557 17-12

METEOROLOGICAL ROCKET AND GEOPHYSICAL SATELLITE STUDY OF NOCTILUCENT CLOUDS IN UPPER ATMOSPHERE
N64-24558 17-21

ORIGIN AND CLIMATOLOGY OF NOCTILUCENT CLOUDS
TR-181 N64-29447 21-21

BIBLIOGRAPHY ON NOCTILUCENT AND NACREOUS CLOUDS, CIRRIFORM CLOUDS, AND CONDENSATION TRAILS
ERDA-181 N64-32034 23-21

NOISE
SA AERODYNAMIC NOISE
SA ATMOSPHERIC NOISE
SA BACKGROUND NOISE
SA BOUNDARY LAYER NOISE
SA COSMIC NOISE
SA GAUSSIAN NOISE
SA IMPULSE NOISE
SA IONOSPHERIC NOISE
SA JET NOISE
SA LOW NOISE
SA NOISE MEASUREMENT
SA NOISE PROPAGATION
SA NOISE REDUCTION
SA RADIO NOISE
SA RANDOM NOISE
SA ROCKET ENGINE NOISE
SA SOLAR NOISE
SA SPECTRAL NOISE
SA THERMAL NOISE
CF ACOUSTICS
NOISE CHARACTERISTICS OF HIGH POWER MICROWAVE AMPLIFIERS
TR-62 N64-11750 03-09

INFORMATION REMOVED FROM SOURCE DUE TO FLUCTUATION NOISES PRESENT IN RECEIVER WITH UNIFORM FREQUENCY SPECTRUM - CYBERNETICS N64-12457 04-08

CONTROL OF RANDOM WANDERING OF AUTOMATON WHEN INTERNAL NOISES ARE PRESENT - CYBERNETICS
N64-12460 04-20

NOISE INFLUENCE ON STEP-TYPE EXTREMAL SYSTEMS WITH SEQUENTIAL ANALYZERS - CYBERNETICS
N64-12462 04-09

RANDOM SPACE DISTRIBUTION OF IMPURITY ATOMS NEAR P-N JUNCTION, AND EXCESS NOISE IN SEMICONDUCTORS
AD-423372 N64-13130 04-09

SIGNAL AMPLITUDE, SENSING & SIGNAL-PRODUCING RESISTORS, AND NOISE EFFECT ON SECOND HARMONIC CURVES OF AUTOMATIC SECOND DERIVATIVE PLOTTER
ASD-TDR-63-471 N64-13995 05-20

EVALUATION OF NOISE IMMUNITY OF AUTOMATIC-PULSE RADIO RANGEFINDER UNDER SEARCH CONDITIONS
FTD-TT-63-776/1&2 N64-14336 06-09

SMALL SHOCK NOISE OF ELECTRON TUBES
N64-14927 06-09

LOW NOISE AMPLIFICATION AT MICROWAVE FREQUENCIES UTILIZING TUNNELING THROUGH THIN FILMS
RADC-TDR-63-321 N64-15126 07-09

FEEDBACK PURPOSE IN CONTROL SYSTEM - STATIC AND DYNAMIC PERFORMANCE IMPROVEMENTS TO MINIMIZE EFFECT OF NOISE AND UNPREDICTABLE CHANGES
RES. REPT.-41 N64-15704 07-20

NOISE CONSIDERATIONS IN THE DESIGN AND OPERATION OF AIRCRAFT
NASA-RP-137 N64-15975 07-23

BIBLIOGRAPHY OF PROBLEMS IN FIELD OF STRUCTURE-BORNE NOISE
AGM-109 N64-17277 09-23

DETECTION OF ACOUSTIC SIGNALS AND NOISE DEVIATION BY RANDOMNESS TESTER N64-18560 11-23

INFLUENCE OF MULTIPLICATIVE NOISE ON DETERMINATION OF SIGNAL POSITION BY DOUBLE GATE METHOD
DVL-312 N64-21702 15-08

PERFORMANCE OF SINGLE & MULTIPLE VOICE RADIO TRANSCRIBERS WORKING UNDER THREE SPEECH-TO-NOISE RATIOS
USAPRO-TRN-135 N64-21741 15-14

EFFECT OF SIGNAL SHAPE ON MAXIMUM PROBABILITY OF DETECTION DURING CORRELATED NOISE
FTD-TT-64-439/1&4 N64-22162 15-08

FAR FIELD NOISE PREDICTION FROM NEAR FIELD SPECTRUM MEASUREMENTS
TR-8 N64-22524 15-23

CORRECTION OF SPURIOUS POWER OUTPUT FROM MAGNETRON
PT-687 N64-23241 16-06

MAXIMUM PROBABILITY OF CHANGE OF SIGNAL EMBEDDED IN INTENSE NOISE, FOR DETECTION AND TRACKING OF SPACECRAFT
D-TDR-64-68 N64-23357 16-08

NOISE-LIKE ELECTROMAGNETIC FIELDS OF ARBITRARY SPECTRAL WIDTH
TR-32 N64-23646 16-09

NOISY ELECTRON BEAM OF EXCITED RESONATOR
N64-23796 16-08

SIGNAL DETECTION IN PRESENCE OF NOISE IN SHORT WAVE RADIATION RANGE N64-24639 17-09

MECHANICAL NOISE DUE TO PISTON SLAP IN RECIPROCATING MACHINERY
REPT.-1106 N64-24954 17-17

NOISE PROBLEMS OF SUPERSONIC FLIGHT AND AIRCRAFT STRUCTURE N64-24960 17-34

NOISE AND SONIC BOOM IN OPERATION OF SUPERSONIC AIRCRAFT
AIAA PAPER-64-548 N64-25361 17-04

MATHEMATICAL MODEL OF SINE WAVE PLUS NOISE FOR PARAMETRIC ANALYSIS OF TAPE RECORDER PERTURBATIONS
NASA-CR-58127 N64-26374 18-09

GAS NOISE SOURCE FOR MILLIMETER WAVELENGTH
QPR-2 N64-26709 18-17

ENERGY METHOD FOR PREDICTION OF HIGH FREQUENCY NOISE AND VIBRATION TRANSMISSION N64-27403 19-33

POTENTIAL HAZARDS OF NOISE ASSOCIATED WITH OPERATION OF MILITARY AIRCRAFT
USAARU-63-1 N64-27609 19-04

NOISE - COMBUSTION, PROPELLER & ROTOR, COMPRESSOR, JET, SONIC BOOM, AND BOUNDARY LAYER
AIAA PAPER-64-545 N64-27751 19-03

NOISE AND SPURIOUS OSCILLATION IN CROSSED FIELD DEVICES
WR-1178 N64-28662 20-09

GALLIUM ARSENIDE EPITAXIAL VARACTOR DIODES FOR HARMONIC GENERATION AND FORWARD BIAS SHOT NOISE
REPT.-16 N64-29636 21-09

EFFECTS OF RING, BRUSH, & INSULATOR MATERIALS ON ELECTRICAL NOISE AND MECHANICAL WEAR IN MINIATURE SLIP-RING ASSEMBLIES
NASA-CR-58666 N64-29693 21-17

NOISE OUTPUT OF BUBBLING ELECTROLYTIC CELL UNDER VARIOUS OPERATIONAL CONDITIONS
IDO-16975 N64-30067 21-06

PARAMETERS OF GROUPS OF RANDOM NUMBER OF SIGNALS IN PRESENCE OF NOISE N64-30220 22-08

CHANNEL INPUT WAVEFORM UNDER ADDITIVE NOISE AND TIME AND FREQUENCY SPREADING
ESD-TDR-64-56 N64-30600 22-08

OPTIMUM LINEAR FILTERING FOR DISCRETE LINEAR PROCESSES IN PRESENCE OF CORRELATED MEASUREMENT NOISE
TDR-469/5540-10/-1 N64-31634 23-08

OPTIMUM STARTING OF NUCLEAR ROCKET TO GIVE FULL POWER WITH PRECISION TIMING AND MINIMUM NOISE
NASA-CR-59209 N64-33120 24-27

NOISE ATTENUATION
DAMPING TREATMENTS FOR ATTENUATING NOISE & VIBRATION
ISAV-MEMO-102 N64-13089 04-23

BROADENING OF NOISE ATTENUATION IN QUADRUPOLE AMPLIFIER WITH AID OF UNCOUPLED RESONATORS AT INPUT N64-23797 16-08

HIGH FREQUENCY, CABLE-DRIVING AMPLIFIER FOR PIEZOELECTRIC PRESSURE GUAGE IN SEVERE NOISE ENVIRONMENT
GAMD-4671 N64-31294 22-09

NOISE ELIMINATION
ACOUSTIC NOISE ELIMINATION DEVICE FOR DOME OF SPACE SUIT HELMET
C30-31 N64-14650 06-23

LASER TECHNIQUES FOR DOPPLER OPTICAL NAVIGATION - SUBCARRIER FREQUENCY, ELECTRO-OPTICAL MODULATION, AND NOISE ELIMINATION
QPR-2 N64-14667 06-25

FEEDBACK PURPOSE IN CONTROL SYSTEM - STATIC AND DYNAMIC PERFORMANCE IMPROVEMENTS TO MINIMIZE EFFECT OF NOISE AND UNPREDICTABLE CHANGES
RES. REPT.-41 N64-15704 07-20

OPTIMUM NOISE PERFORMANCE OF MULTITERMINAL AMPLIFIERS
AD-434781 N64-18382 10-09

NOISEPROOF TRANSMISSION OF REMOTE CONTROL COMMANDS USING DUPLICATION AND STORAGE N64-24540 17-08

SIGNAL PROCESSING BY INFINITE CLIPPING FOR IMPROVED COMMUNICATION AGAINST NOISE OR JAMMING
AD-600863 N64-26556 18-08

NOISE INTENSITY
CF SOUND INTENSITY
SONIC LOUDNESS MEASUREMENT, SCALES AND UNITS, HISTORY OF SCALES, AND EXPERIMENTS N64-12575 04-23

MEASUREMENT OF NOISE INTENSITY GENERATED BY FLOW
AGARD-462 N64-18991 11-23

NOISE INTENSITY IN INTERNAL AND EXTERNAL ENVIRONMENTS OF AIRCRAFT
USAARU-64-1 N64-20390 13-04

NOISE INTENSITY IN SATELLITE CONTROL FACILITY
SSD-TDR-63-293 N64-22379 15-08

RELATIONSHIP OF PROBABILITY OF BIT ERROR IN PHASE MODULATION SYSTEM TO RECEIVED SIGNAL POWER, NOISE INTENSITY, AND BIT RATE OF SOURCE
NASA-CR-56621 N64-24034 16-20

NOISE INTENSITY EFFECT ON PERFORMANCE OF LINEAR AND NONLINEAR NO-MEMORY FILTERS
NASA-CR-56838 N64-29198 21-08

THERMAL PROTECTION SYSTEMS AND THERMOSTRUCTURES TO WITHSTAND EXTENDED HIGH TEMPERATURES, INTENSE NOISE, AND DYNAMIC LOADS
AD-439449 N64-30537 22-34

LOW-FREQUENCY, LOW NOISE MICROPHONES N64-32259 23-15

NOISE MEASUREMENT
MEASUREMENTS OF NOISE OUTPUT & NOISE SPECTRA FOR 20 VOLT SILICON ZENER DIODES
TR-1184 N64-14489 06-09

NOISE MEASUREMENTS IN POWER PERVEANCE ELECTRON BEAMS N64-16141 08-09

ATMOSPHERIC RADIO NOISE AT BYRD STATION, ANTARCTICA - MEASUREMENT, SOURCES, AND ABSORPTION PHENOMENA
RAD-TR-63-46 N64-16850 08-12

MEASUREMENT OF NOISE EMISSIONS FROM IONOSPHERIC IONS AT AUDIOFREQUENCIES N64-19689 12-12

ULTRAHIGH FREQUENCY RADIOMETER FOR PLASMA NOISE MEASUREMENTS
ACF-AR-1678 N64-20184 13-15

CONDENSER MICROPHONE FOR BOUNDARY LAYER NOISE MEASUREMENT N64-20244 13-15

ELECTROMAGNETIC NOISE AT EXTREMELY LOW FREQUENCIES
AFCRL-64-352 N64-20840 14-23

CORRELATION OF BURST NOISE AND PARAMETER DRIFT IN SEMICONDUCTORS FOR FAILURE PREDICTION N64-20983 14-09

ATMOSPHERIC RADIO NOISE MEASUREMENTS
LAFE-13 N64-22013 15-08

PARTIAL DIFFERENTIAL EQUATION FOR CONDITIONAL PROBABILITY DENSITY DISTRIBUTION FOR NONLINEAR DYNAMIC SYSTEMS WITH NOISY MEASUREMENTS
TR-432 N64-22122 15-20

NONLINEAR NOISE TRANSMISSION IN FREQUENCY-DIVISION MULTIPLEX TELEPHONY OVER SSB-PM SATELLITE COMMUNICATION SYSTEM

NASA-TN-D-2365 N64-23920 16-09

NOISE LEVEL MEASUREMENTS OF GROUND SUPPORT EQUIPMENT AT ATLAS AND TITAN I FACILITIES
AMRL-TDR-64-31 N64-24155 16-10

STATISTICAL ANALYSIS OF CROSS-CORRELATION ELECTROMAGNETIC NOISE BETWEEN RADAR RECEIVERS
USCEE-107 N64-24228 16-09

NOISE EQUIVALENT POWER OF BARIUM TITANATE SINGLE CRYSTALS AND CERAMICS
NASA-CR-44 N64-24825 17-09

IN-FLIGHT NOISE MEASUREMENTS PERFORMED ON X-21A LAMINAR FLOW AIRCRAFT
NOR-64-81 N64-25697 17-11

PARAMETER ESTIMATION IN NOISY LINEAR SYSTEMS
M-207 N64-26764 18-09

ELECTROMAGNETIC NOISE PULSE MEASUREMENTS OF VERTICALLY CONDUCTING CLOUD DEVELOPMENT
AFCRL-64-333 N64-26949 18-21

NOISE IMMUNITY OF COMMUNICATION SYSTEMS WITH ERROR CORRECTING FEEDBACK CHANNELS
JPRS-25853 N64-27065 19-08

RECEIVER NOISE FIGURE AND SENSITIVITY CALCULATION USING NOISE TEMPERATURE APPROACH
EDL-M658 N64-27779 19-08

NOISE ANALYSIS IN NUCLEAR SYSTEMS
TID-7679 N64-28801 20-23

NOISE-FIGURE MEASUREMENTS OF X-BAND WAVEGUIDE MIXER WITH TUNNEL DIODE
AFCRL-64-547 N64-31807 23-09

NOISE METER
PERFORMANCE OF PROTOTYPE NOISE EXPOSURE METER UTILIZING ELECTROCHEMICAL STORAGE CELLS
AMRL-TDR-64-4 N64-18261 10-15

NOISE PROPAGATION
RADIO PROPAGATION EFFECTS ABOVE 10 GC/S AND ANTENNA NOISE ABOVE 1000 MC/S - INCREASED IMPORTANCE OF TROPOSPHERIC EFFECTS
N64-18243 10-08

NOISE RADIATION FROM LOW PRESSURE PLASMA COLUMN IN FREE SPACE AND IN WAVEGUIDE N64-24675 17-24

NOISE PROPAGATION IN ACCELERATED NONUNIFORM ELECTRON GAS
REPT.-05000-13-T N64-25753 17-24

RADIO FREQUENCY NOISE GENERATION FROM SPACE VEHICLES
NASA-CR-58489 N64-28760 20-23

NOISE REDUCTION
NOISE REDUCTION AND CONTROLLED VIBRATION IN SHIPS
JPRS-18177 N64-11315 02-23

CORONA THRESHOLD DISCHARGE STUDY OF AIRCRAFT PROPELLER NOISE REDUCTION
SRI-TR-77 N64-11443 03-08

FILTERING OF NOISE AND SIGNAL TRANSMISSION IN RECEIVING CIRCUIT CONTAINING NONLINEAR ELEMENTS
N64-15136 07-08

NOISE REDUCTION IN RECTANGULAR ENCLOSURES WITH ONE FLEXIBLE WALL N64-15173 07-23

MINIMIZATION OF ANTENNA NOISE
AD-431496 N64-17474 09-09

ENERGY METHOD FOR PREDICTION OF ACOUSTIC AND VIBRATION TRANSMISSION & NOISE REDUCTION STUDIES
N64-18537 11-33

COUPLING MECHANISM IN INJECTED-BEAM CROSSED FIELD AMPLIFIERS & REDUCTION OF NOISE
AD-431248 N64-21371 14-09

POLARIZATION CHARACTERISTICS OF TRANSMITTED SIGNALS FOR NOISE SUPPRESSION IN COMMUNICATION LINK
RADC-TDR-64-128, VOL. II N64-24192 16-23

RADAR CROSS SECTION MEASUREMENT RANGE - REQUIREMENTS FOR NOISE REDUCTION
N64-24300 17-08

NOISE REDUCTION IN HYDROFOIL BOATS AND SHIP HULLS
JPRS-24818 N64-24579 17-34

NOISE REDUCTION ON DIESEL ENGINE DRIVEN HYDROFOIL BOAT N64-24580 17-34

SOUND PROPAGATION IN SHIP HULL STRUCTURES AND DESIGN FOR NOISE REDUCTION N64-24581 17-34

PNEUMATIC AMPLIFIER NOISE REDUCTION BY JET-EDGE AND RESONATOR COUPLING N64-25262 17-11

NOISE REDUCTION IN INJECTION BEAM CROSSED FIELD AMPLIFIERS
QR-3 N64-26096 18-09

QUIET SYNCHROS - MATHEMATICAL COMPUTATIONS AND EXPERIMENTAL INVESTIGATIONS IN ACOUSTICAL NOISE REDUCTION N64-31478 23-17

HIGH PERFORMANCE NOISE-CANCELLING MICROPHONE FOR SPEECH COMMUNICATIONS IN SPACE - SPEECH TRANSMISSION AND HELMET COMFORT
CLD-1707 N64-31933 23-08

ACOUSTIC STUDY OF PIPE ARRAY FOR REDUCTION OF WIND NOISE N64-32257 23-08

NOISE STORM
RELATIONSHIP BETWEEN SOLAR NOISE STORM IN VERY HIGH FREQUENCY BAND AND SOLAR FLARE - INTERFEROMETRY N64-30273 22-28

NOMENCLATURE
NOMENCLATURE SCHEME FOR HIGH-ENERGY NUCLEAR CROSS SECTIONS N64-12543 04-23

NOMOGRAPH
NOMOGRAMS FOR DETERMINING PERMISSIBLE DOSAGE OF FAST NEUTRONS FROM POLONIUM AND BERYLLIUM SOURCES
ELECTROMAGNETIC PROPAGATION WITH ACOUSTIC VIBRATIONS IN MAGNETOSPHERE
FTD-TT-63-862/162 N64-12618 04-23

MINIMUM CHIMNEY HEIGHTS FOR BURNING WASTES - NOMOGRAPHS
E-T-G-63-29 N64-18662 11-11

NOMOGRAPH MEASUREMENTS OF ARRIVAL ANGLE AND RADIO WAVE BEARINGS OF PHASE DIFFERENCE BETWEEN THREE STATIONS
E15 N64-19084 11-08

NOMOGRAPHS FOR APPROXIMATE CALCULATIONS OF VELOCITY DISTRIBUTIONS IN TURBINE GRILLS
N64-23490 16-11

DESIGN OF GYROSCOPIC INSTRUMENTS WITH AID OF NOMOGRAM BASED ON MOTION EQUATIONS
N64-24546 17-15

FORTRAN PROGRAM FOR DETERMINING KINEMATICS NOMOGRAM OF PARTICLES IN NUCLEAR TWO-BODY REACTION
ORNL-3636 N64-24605 17-23

NOMOGRAPHS FOR RELATIVISTIC VELOCITY TRANSFORMATION
NASA-CR-58494 N64-28878 20-23

NOMOGRAPHIC ELECTRONIC COMPUTATION - APPLICATION TO MEMORY STORAGE AND DATA RETRIEVAL DEVICES
RADC-TDR-62-274, VOL. II N64-30940 22-09

NOMOGRAPHS RELATED TO COMPLEX RELATIVE PERMITTIVITY EIGENVALUES FOR MAGNETOIONIC PLASMA MEDIUM
REPT.-1565-11 N64-33595 24-24

NON-NEWTONIAN FLUID
NON-NEWTONIAN FLOW IN INCOMPRESSIBLE FLUIDS - TRANSIENT FLOW IN POLYMER SOLUTIONS & MELTS

COA-N-149 N64-10417 01-11

NONABLATING MATERIAL
NONEQUILIBRIUM BOUNDARY LAYER FLOWS OF FOUR-COMPONENT GAS MIXTURE AROUND NONABLATING BODIES
TDR-269/4230-10/-2 N64-12059 03-11

FREE FLIGHT MEASUREMENTS OF HYPERSONIC FLOW AROUND ABLATING AND NONABLATING SPHERES, SPHERE-CAPPED CYLINDERS, AND CONES
GTR-63-224 N64-21170 14-02

NONADIABATIC THEORY
NONADIABATIC MODEL OF ATMOSPHERIC MOVEMENT AND SATELLITE RADIATION MEASUREMENTS FOR WEATHER FORECASTING
JPRS-23129 N64-14921 06-21

NONADIABATIC THEORY OF INELASTIC SCATTERING OF ELECTRONS FROM ATOMIC HYDROGEN
NASA-TM-X-51667 N64-20594 13-23

NONADIABATIC OSCILLATIONS OF STARS
N64-24782 17-29

NONADIABATIC THEORY OF INELASTIC ELECTRON SCATTERING FROM ATOMIC HYDROGEN
NASA-RP-269 N64-26251 18-23

NONADIABATIC THEORY FOR DIATOMIC MOLECULES AND APPLICATION TO HYDROGEN MOLECULE
N64-30309 22-23

NONADIABATIC FACTORS IN SHORT TERM FORECASTING OF LOWER ATMOSPHERE GEOPOTENTIAL FIELDS
JPRS-26792 N64-32130 23-12

NONDESTRUCTIVE TESTING
SA FLAW DETECTION
CF DESTRUCTIVE TESTING
CF MATERIAL TESTING
COMPARISON OF COMPLETE VERSUS SELECTIVE PROGRAMMED INSTRUCTION IN NONDESTRUCTIVE TESTING LABORATORY - PERSONNEL TRAINING
Y-1442 N64-10213 01-20

THERMAL NONDESTRUCTIVE EVALUATION OF METALLIC AND CERAMIC STRUCTURES - INFRARED DETECTION
ASD-TDR-62-385 N64-10251 01-23

ELECTRON MICROSCOPY AND NONDESTRUCTIVE TESTING
JPRS-22443 N64-11923 03-15

NONDESTRUCTIVE TESTING BY DOUBLE IMPULSE EDDY CURRENT
EUR-356.F N64-12450 04-23

DESTRUCTIVE AND NONDESTRUCTIVE TESTING OF SPERT I-D REACTOR
IDO-16886 N64-13369 04-23

NONDESTRUCTIVE ULTRASONIC TESTING AND INSPECTION OF FLAWS IN MATERIALS
ASD-TD-61-205, PT. 2 N64-14319 06-17

BEHAVIOR AND NONDESTRUCTIVE TESTING OF WOOD STRAIGHT-GLUED JOINTS FOR AIRCRAFT STRUCTURES
N64-15020 07-19

NONDESTRUCTIVE TESTING OF BONDED METAL JOINTS
DFL-216 N64-15022 07-17

NONDESTRUCTIVE TESTING FOR PARASITIC ARC SUSCEPTIBILITY IN RELAYS N64-19523 12-09

NONDESTRUCTIVE INSPECTION & TESTING OF FIBERGLASS REINFORCED PLASTIC MISSILE CASES & STRUCTURAL MATERIALS BY USE OF X-RAY TELEVISION EQUIPMENT
WAL-TR-142.5/2-8 N64-20319 13-17

SPERT REACTOR KINETIC BEHAVIOR DURING DESTRUCTIVE AND NONDESTRUCTIVE TESTING
EUR-497.E N64-20873 14-23

NONDESTRUCTIVE EVALUATION OF METAL FATIGUE
AFOSR-64-0668 N64-21441 14-33

APPLICATION OF SCINTILLATION SPECTROMETRY TO NONDESTRUCTIVE TESTING
ANL-6743 N64-22114 15-17

ADHESIVES IN CONSTRUCTION AND AIRCRAFT STRUCTURES, AGE HARDENING, STRESS DISTRIBUTION, CORROSION, AND NONDESTRUCTIVE TESTING
WGLR-1/1964 N64-27228 19-20

NONDESTRUCTIVE TESTING OF SOLID PROPELLANT ROCKET ENGINES N64-28191 20-27

NONDESTRUCTIVE TEST OF CARBON BEDS FOR REACTOR CONTAINMENT
DP-910 N64-30303 22-10

THERMAL NONDESTRUCTIVE TESTING BY INFRARED RADIOMETRIC MEASUREMENT OF HEAT TRANSFER RATES
ASD-TDR-62-385, PT. II N64-30922 22-25

IMPROVED ULTRASONIC BOND INSPECTION EQUIPMENT
AMRA-TR-63-16 N64-31184 22-17

NONDESTRUCTIVE SPECIFIC GRAVITY MEASURING EQUIPMENT USING RADIATION TECHNIQUE
REPT.-58-92-PR-59 N64-31237 22-15

NONDESTRUCTIVE TESTING OF SPOT WELDS BY ULTRASONIC RADIATION PENETRATION
RSIC-263 N64-31822 23-17

SCAN HEAT AND HEAT SUPPORT TECHNIQUES FOR THERMAL INSPECTION OF NONDESTRUCTIVE METALLIC AND CERAMIC MATERIALS
ASD-TDR-62-385, PT. III N64-31939 23-17

ULTRASONIC TRANSDUCER FOR NONDESTRUCTIVE INSPECTION OF RESISTANCE SPOT WELDS DURING FORMATION
R-1729 N64-32929 24-17

ELECTROMAGNETIC METHOD OF NONDESTRUCTIVE TESTING OF DECARBURIZATION OF COMPONENTS - HARMONIC ANALYSIS
SA-TR-19-1508 N64-33719 24-17

EXPERIMENTAL ELECTROMAGNETIC METHOD FOR NONDESTRUCTIVE TESTING OF CARBURIZED STEEL PARTS
SA-TR19-1509 N64-34002 24-17

NONEQUILIBRIUM
CF EQUILIBRIUM
KINETIC EQUATION FOR INTERACTING SHOCK WAVES IN NONEQUILIBRIUM RAREFIED PLASMA
FTD-MT-63-96/1&2&3&4 N64-14380 06-24

CHEMICAL REACTION YIELDING NONEQUILIBRIUM IONIZATION - SQUID PROJECT N64-18858 11-07

REACTIONS OF IONS WITH GASEOUS ATOMS AND MOLECULES AND REACTIONS GIVING NONEQUILIBRIUM IONIZATION - SQUID PROJECT N64-18861 11-07

SEGMENTED ELECTRODE LOSSES IN MAGNETOHYDRODYNAMIC GENERATOR WITH NONEQUILIBRIUM IONIZATION
RR-178 N64-19729 12-24

SPECTRAL DENSITY FORMULA FOR RADIATION SCATTERED BY NONEQUILIBRIUM PLASMA
NATT-217 N64-20480 13-24

NONEQUILIBRIUM IONIZATION AND MAGNETOHYDRODYNAMIC PHENOMENA IN PLASMAS
R64SD36 N64-21155 14-24

NONEQUILIBRIUM IONIZATION FOR MAGNETOHYDRODYNAMIC ENERGY CONVERSION
QR-8 N64-21494 14-24

NONEQUILIBRIUM SODIUM IONIZATION IN LAMINAR BOUNDARY LAYER
BSD-TDR-64-50 N64-24798 17-11

NONEQUILIBRIUM IONIZATION IN MAGNETOPLASMADYNAMIC ELECTRIC POWER GENERATOR
MND-3141 N64-25814 17-24

FLOW PROCESSES, ATOMIC COLLISIONS, SEEDING, AND NONEQUILIBRIUM MODES IN MAGNETOPLASMADYNAMIC POWER GENERATION
IRD-64-36, PT. 3 N64-30440 22-24

OPTIMIZATION OF LARGE SCALE NUCLEAR MAGNETOPLASMADYNAMIC GENERATORS
N64-30444 22-24

ION RECOMBINATION CALCULATIONS FOR MODELS OF NONEQUILIBRIUM PLASMAS N64-30450 22-24

GROWTH AND SHRINKAGE RATES OF NONEQUILIBRIUM ICE FORMATIONS
CRREL RES. REPT.-145 N64-33108 24-12

SUSTAINED POWER GENERATION IN MAGNETOGASDYNAMIC GENERATOR USING NONEQUILIBRIUM TECHNIQUES
NASA-CR-59276 N64-33327 24-10

NONEQUILIBRIUM FLOW
APPROXIMATION OF HYPERSONIC NONEQUILIBRIUM AIRFLOWS PAST BLUNT BODIES
CARDE-TR-458/63 N64-10472 01-11

NONEQUILIBRIUM BOUNDARY LAYER FLOWS OF FOUR-COMPONENT GAS MIXTURE AROUND NONABLATING BODIES
TDR-269/4230-10/-2 N64-12059 03-11

HYPERSONIC FLOW WITH NONEQUILIBRIUM DISSOCIATION AROUND BLUNT BODIES IN FLOW FACILITIES & FREE FLIGHT
NASA-CR-55138 N64-13055 04-11

NONEQUILIBRIUM HYPERSONIC FLOW OF AIR IN HYPERSONIC NOZZLES & AROUND BLUNT BODIES
NASA-CR-55139 N64-13188 04-02

EFFECTS OF SPECIES DIFFUSION AND HEAT CONDUCTION ON NONEQUILIBRIUM FLOWS BEHIND STRONG SHOCK WAVES
NASA-CR-55178 N64-13333 04-11

FUNDAMENTAL INVESTIGATION OF NONSTEADY AND NONEQUILIBRIUM FLOW - TWO-PHASE FLOW IN SQUID PROJECT N64-13477 05-24

NONEQUILIBRIUM EXPANSION FLOW OF DISSOCIATED OXYGEN GENERATED BY SUPERSONIC SHOCK WAVE AROUND A CORNER
UTIA-91 N64-13964 05-23

FUEL CELL PERFORMANCE UNDER NONEQUILIBRIUM CONDITIONS
NASA-CR-52890 N64-14903 06-06

NONEQUILIBRIUM EFFECT ON HYPERSONIC LAMINAR BOUNDARY LAYER
AVCO-EVERETT RES. REPT.-171 N64-15524 07-11

GAS DYNAMICS AND CHEMICAL KINETIC EQUATIONS FOR HYPERSONIC CONTAMINATED NONEQUILIBRIUM WAKE SOLVED BY FINITE-DIFFERENCE SCHEME
R63SD68 N64-15959 07-24

INVERSE METHOD FOR ANALYZING CHEMICALLY REACTIVE NONEQUILIBRIUM FLOW AROUND BLUNT BODIES
TDR-269/4560-10/-2 N64-16255 08-02

NONEQUILIBRIUM AIR FLOW IN NOZZLES AT HIGH TEMPERATURE
FTD-TT-62-1278/1&2 N64-16394 08-02

NONEQUILIBRIUM INVISCID EXPANSION FLOWS OF IONIZED ARGON AROUND CORNER
UTIAS-95 N64-16448 08-11

NONEQUILIBRIUM FLOW OF GAS MIXTURE THROUGH PROPULSIVE NOZZLE OF HYPERSONIC RAMJET
ARC-CP-636 N64-17248 09-02

NONSTEADY AND NONEQUILIBRIUM TWO-PHASE FLOWS - SQUID PROJECT N64-18852 11-11

WALL ROUGHNESS EFFECTS ON INVISCID NONEQUILIBRIUM SUBSONIC AND SUPERSONIC FLOWS IN DUCTS
TDR-269/4230-20/-6 N64-20322 13-11

THERMODYNAMIC NONEQUILIBRIUM IN HIGH ENTHALPY NOZZLE FLOW N64-20616 13-02

SUPERSONIC TWO-DIMENSIONAL AND AXISYMMETRIC NONEQUILIBRIUM FLOW THEORY AND CALCULATIONS FOR AXISYMMETRIC FLOW THROUGH NOZZLES
NASA-TR-R-164 N64-21257 14-11

AERODYNAMIC CHARACTERISTICS OF THIN AIRFOIL IN NONEQUILIBRIUM STREAM AT SMALL ANGLE OF ATTACK
NASA-TR-R-201 N64-21262 14-03

AMBIENT DISSOCIATION EFFECTS ON NONEQUILIBRIUM SHOCK LAYER FLOW
ARL-64-42 N64-22312 15-11

STRUCTURE OF RADIATION-RESISTED SHOCK WAVES WITH VIBRATIONAL NONEQUILIBRIUM
SSD-TDR-64-78 N64-22558 15-11

AIR RADIATION FROM NONEQUILIBRIUM WAKES OF BLUNT HYPERSONIC REENTRY VEHICLES
RM-4071-ARPA N64-22616 15-11

THERMODYNAMICS OF NONEQUILIBRIUM FLOW, WATER FLOW BREAKUP, AND FLAME FRONT STRUCTURES
FTD-TT-63-839/1&2&4 N64-23651 16-11

HYDRODYNAMICS OF RELAXING MEDIA & THERMODYNAMICS OF NONEQUILIBRIUM FLOW N64-23652 16-11

VISIBLE RADIATION AND NONEQUILIBRIUM FLOW FIELD AROUND VEHICLE IN REENTRY TRAJECTORY
NASA-CR-56626 N64-24025 16-02

CHARACTERISTIC CALCULATION OF NONEQUILIBRIUM FLOWS N64-26131 18-11

NONEQUILIBRIUM BLUNT BODY FLOWS
N64-26132 18-02

NEW METHODS FOR SOLUTION OF NONEQUILIBRIUM FLOWS
N64-26136 18-11

MEASURING PROPERTIES OF AIR UNDER EQUILIBRIUM AND NONEQUILIBRIUM FLOW CONDITIONS N64-26141 18-11

NONEQUILIBRIUM SCALING OF HIGH ENTHALPY GAS FLOWS
TR-64-02C N64-27569 19-11

INTEGRAL RELATIONS METHOD APPLIED TO SUPERSONIC NONEQUILIBRIUM FLOW PAST WEDGES AND CONES
NASA-TR-R-205 N64-28011 20-11

FORTRAN II LANGUAGE PROGRAM FOR CALCULATION OF NONEQUILIBRIUM EXPANSION FLOWS OF DISSOCIATED OXYGEN AND IONIZED ARGON AROUND CORNERS
UTIAS-TN-69 N64-29902 21-11

NUMERICAL SOLUTION FOR TWO- AND THREE-DIMENSIONAL FLOW OF NONEQUILIBRIUM GAS
AFOSR-64-1055 N64-30008 21-11

NONEQUILIBRIUM FLOW FOR INCREASING ELECTRICAL CONDUCTIVITY OF WORKING FLUID IN NUCLEAR PLASMA GENERATOR N64-30449 22-06

COMPUTER PROGRAM FOR STUDY OF NONEQUILIBRIUM FLOW EFFECTS IN HIGH EXPANSION RATE NOZZLES
NASA-CR-54042 N64-31452 23-02

NONEQUILIBRIUM RADIATION
NONEQUILIBRIUM RADIATION FROM STAGNATION REGION OF HYPERVELOCITY PROJECTILES IN FREE FLIGHT
TR-64-02G N64-31115 22-11

NONFERROUS METAL
PHASE ANALYSIS OF NONFERROUS ALLOYS
JPRS-18853 N64-10580 01-18

NONFERROUS METALLURGY - TELLURIUM AND POWDERED ALUMINUM
JPRS-17727 N64-11826 03-18

CREEP ANALYSIS OF NONFERROUS METALS AT ROOM TEMPERATURE N64-28498 20-33

NONFERROUS ALLOYS FOR AEROSPACE STRUCTURAL APPLICATION
ASD-TDR-63-741, VOL. II, SUPPL N64-30058 21-18

JOURNAL ON NONFERROUS METALLURGY
FTD-MT-64-12 N64-30798 22-18

NONFERROUS METALLURGY
FTD-MT-64-14 N64-31404 23-07

NAPHTHAZOLETHIONES - COLLECTORS IN FLOTATION OF SULFIDE AND OXIDE ORE OF NONFERROUS METALS
N64-31408 23-07

EFFECT OF ULTRASOUND ON PROCESS OF LEACHING SLIGHTLY SOLUBLE RARE METAL COMPOUNDS
N64-31417 23-07

NONFLAMMABLE MATERIAL
NONFLAMMABLE HYDRAULIC FLUIDS & LUBRICANTS
BMPR-3 N64-24152 16-19

DEVELOPING NONFLAMMABLE HYDRAULIC FLUIDS AND LUBRICANTS
BMPR-4 N64-28130 20-17

NONLIFTING VEHICLE
LOW-SUBSONIC AERODYNAMIC CHARACTERISTICS OF DELTA-WING RECOVERY DEVICE FOR NONLIFTING SPACECRAFT
NASA TN-D-2349 N64-23625 16-03

NONLINEAR EQUATION
CF LINEAR EQUATION
ASYMPTOTIC METHOD FOR SOLUTION OF SYSTEM OF TWO NONLINEAR DIFFERENTIAL EQUATIONS
FTD-TT-63-1038/1&2 N64-16391 08-22

EXACT SOLUTION TO NONLINEAR EQUATIONS OF LAMINAR FLOW FOR VISCOUS INCOMPRESSIBLE FLUIDS IN ENTRANCE REGION OF ANNULAR PIPES
MRC-477 N64-18378 10-11

NONLINEAR MOTION EQUATIONS FOR DYNAMIC STABILITY OF PARACHUTES
AGARD-444 N64-18716 11-04

NONLINEAR APPROACH TO SHIP STEERABILITY - DYNAMIC STABILITY N64-20781 14-11

SECULAR AND NONSECULAR BEHAVIOR FOR NONLINEAR COLD ELECTRON PLASMA EQUATIONS
NASA-RP-182 N64-21306 14-24

NONLINEAR SUMMABILITY TECHNIQUES IN INVARIANT IMBEDDING AND APPLICATION TO RADIATIVE TRANSFER
RM-3397-PR N64-21911 15-23

EQUATIONS FOR NONLINEAR & FORCED OSCILLATIONS
R-193 N64-22223 15-23

APPROXIMATION METHOD FOR SOLVING NONLINEAR DIFFERENTIAL EQUATIONS
SEG-TDR-64-25 N64-22375 15-20

EXISTENCE AND UNIQUENESS OF PERIODIC SOLUTION TO SINGLE NONLINEAR DIFFERENTIAL EQUATION OF HYPERBOLIC TYPE
NASA-TT-F-8737 N64-25279 17-20

SOLUTION OF ABLATION PROBLEM - NONLINEAR INTEGRAL EQUATION
RM-4067-PR N64-25580 17-20

VARIATIONAL METHOD OF APPLYING PRINCIPLES OF LEAST SQUARES TO SOLUTION OF LINEAR AND NONLINEAR EQUATIONS
MLM-1186 N64-26473 18-20

STABILITY OF SOLUTIONS OF NONLINEAR DIFFERENCE EQUATIONS CONTAINING RANDOM VARIABLES
NASA-CR-58576 N64-28956 20-09

METHOD FOR INTEGRATING NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS APPLIED TO SYSTEM OF TWO EQUATIONS FOR DIGITAL COMPUTER SOLUTION
RM-4240-PR N64-30627 22-20

CONVERGENCE OF PICARD SUCCESSIVE APPROXIMATION SCHEMES BY TWO-POINT BOUNDARY VALUE NONLINEAR DIFFERENTIAL EQUATIONS
RM-4079-PR N64-31072 22-20

OPTICAL COHERENCE APPLIED TO ERGODIC FIELDS AND DYNAMIC STATES OF NONLINEAR DIFFERENTIAL EQUATION
USCEC-102-101 N64-31097 22-08

DYNAMIC STATES OF NONLINEAR DIFFERENTIAL EQUATION
N64-31099 22-20

COMPUTER METHODS FOR NUMERICAL SOLUTION OF SYSTEMS OF NONLINEAR DIFFERENTIAL EQUATIONS
NASA-TT-F-8356 N64-31201 22-20

STABILITY, PERIODICITY, AND NEAR PERIODICITY OF SOLUTIONS OF NONLINEAR DIFFERENTIAL EQUATIONS IN BANACH SPACES
MRC-496 N64-31965 23-20

NUMERICAL INVERSION OF LAPLACE TRANSFORM IN NONLINEAR FUNCTIONAL EQUATIONS
RM-4088-NIH N64-31974 23-20

STABILITY BEHAVIOR OF THIN WALLED CIRCULAR CYLINDRICAL SHELLS UNDER AXIAL LOAD AND INTERNAL PRESSURE BY APPLYING NONLINEAR SHELL EQUATIONS
NOR-64-80 N64-33463 24-33

NONLINEAR PROGRAMMING
MOMENT PROBLEM IN NONLINEAR PROGRAMMING - OPTIMIZATION THEORY
SSD-TDR-63-178 N64-12686 04-20

NONLINEAR PROGRAMS WITH POSITIVELY BOUNDED JACOBIAN MATRIX
ORC-64-12/RR/ N64-33310 24-20

NONLINEAR SYSTEM
CF LINEAR SYSTEM
COMPUTATION OF PROCESSES IN NONLINEAR PULSE WIDTH MODULATED DISCRETE CONTROL SYSTEMS
STL-TRANS-76 N64-11954 03-20

CONTINUUM THEORY OF ORIENTED MATERIALS TO DESCRIBE NONLINEAR MECHANICAL BEHAVIOR OF SOLIDS
N64-13433 05-25

APPROXIMATE DETERMINATION OF FORCED OSCILLATIONS IN NONLINEAR GYROSCOPE STABILIZING SYSTEMS
N64-13573 05-23

SINGULAR PERTURBATIONS AND NONLINEAR BOUNDARY VALUE PROBLEMS
MRC-421 N64-13822 05-20

NONLINEAR ELASTIC BENDING OF PLATE STRIP
GD/A-63-0769 N64-14457 06-33

THIN SHELL THEORY EVALUATION OF NONLINEAR SHEARS AND MOMENTS AT PRESSURIZED CYLINDRICAL SHELL JUNCTION
GD/A-62-0767 N64-14550 06-33

APPLICATION OF LIAPUNOV METHOD TO INVESTIGATION OF STABILITY OF MOTION OF NONLINEAR DISCONTINUOUS SYSTEMS - AUTOMATIC CONTROL
MH-TRANS-384 N64-14804 06-20

ASPECTS OF NONLINEAR REGRESSION ANALYSIS
BSD-TDR-63-239 N64-15587 07-20

ANALYSIS OF PHYSICAL NONLINEAR TRANSDUCERS BY MATHEMATICAL MODELS CHARACTERIZED BY DIFFERENTIAL EQUATIONS N64-16240 08-15

OPTIMIZATION OF SYSTEMS CONTAINING ESSENTIALLY NONLINEAR ELEMENTS
TIL/T-5464 N64-16263 08-20

STABILITY IN NONLINEAR CONTROL SYSTEMS WITH ONE OR TWO REGULATORS
FTD-TT-63-399/1&2 N64-16419 08-06

OPTIMAL CONTROL IN NONLINEAR SYSTEMS
TIL/T-5462 N64-16664 08-06

NUMERICAL ANALYSIS OF NONLINEAR ELASTIC BODIES
ERR-AN-157 N64-16858 08-33

GENERALIZATION OF SUPERPOSITION PRINCIPLE OF STATISTICAL COMMUNICATION THEORY & INVESTIGATION OF CLASS OF NONLINEAR SYSTEMS N64-17878 10-08

DIFFERENTIAL EQUATION FOR UNDAMPED FORCED NON-LINEAR OSCILLATIONS
NASA-CR-53471 N64-18172 10-23

NONLINEAR ANALOG NETWORK FOR CONVERTING SURFACE TEMPERATURE TO HEAT FLUX - USE WITH THIN FILM

RESISTANCE THERMOMETERS
CAL-130 N64-18176 10-15

INFINITE CLASS OF PERIODIC SOLUTIONS FOR AN EQUATION OF NONLINEAR OSCILLATION THEORY
NASA-CR-53562 N64-18424 10-20

DISCRETE OPTIMAL CONTROL SYSTEMS FOR SYSTEMS DESCRIBED BY NONLINEAR DIFFERENCE EQUATIONS
NASA-CR-53583 N64-18430 10-20

APPLICATION OF STOCHASTIC DIFFERENTIAL EQUATIONS TO OPTIMAL NONLINEAR FILTERING IN CONTROL THEORY
NASA-CR-53567 N64-18447 10-20

RESONANCE IN NONLINEAR OSCILLATING-INTEGRATING HAMILTONIAN SYSTEM
FTD-MT-63-112 N64-18762 11-23

DIGITAL COMPUTER PROGRAMS FOR DERIVATION OF MOTION EQUATIONS OF COMPLEX SYSTEMS AND FOR DETERMINATION OF STABILITY BOUNDARIES OF NONLINEAR SYSTEMS
AE63-1079 N64-19658 12-20

APPROXIMATION TECHNIQUE FOR CONSTRUCTION OF CONTROL LAW FOR OPTIMAL STABILIZATION OF NONLINEAR SYSTEM
RN-165 N64-19924 12-20

NONLINEAR COMBUSTION INSTABILITY IN ROCKET COMBUSTORS - LONGITUDINAL OSCILLATION
NASA-CR-53870 N64-19941 12-26

SINUSOIDAL VIBRATION TESTING OF NONLINEAR SPACECRAFT STRUCTURES N64-20262 13-33

APPLICATION OF FINITE DIFFERENCE METHOD TO NONLINEAR BOUNDARY VALUE PROBLEMS IN MINIMAL SURFACES, GEODESICS, AND SUBSONIC FLOWS
MRC-466 N64-20340 13-20

FUNCTIONS AND TRANSFER CHARACTERISTICS OF CONTROL SYSTEMS WITH NONLINEAR ELEMENTS
SAAB-TN-51 N64-20436 13-20

LINEAR AND NONLINEAR PROBLEMS IN DIGITAL STRUCTURE ANALYSIS - DOUGLAS FORCE METHOD N64-20942 14-33

CONTROLLABILITY FOR LINEAR AND NONLINEAR SYSTEMS
SK-0520-54 N64-20964 14-20

INTERFERENCE REDUCTION TECHNIQUES FOR NONLINEAR DEVICES
ER-13171-2 N64-21625 15-08

NONLINEAR FLIGHT CONTROL SYSTEMS - SIMPLIFIED PITCH RATE AUTOPILOT AND HIGH GAIN ADAPTIVE PITCH RATE AUTOPILOT
ASD-TDR-62-369 N64-21708 15-09

THEORY OF HARMONICS ARISING FROM NONLINEAR DISSIPATION OF SIGNALS IN PARTIALLY IONIZED GAS
USCEC-82-217 N64-21989 15-24

NONLINEAR STRUCTURAL VIBRATION OF BEAMS, ROTOR BLADES, AND COMPOSITE SYSTEMS
FTD-TT-62-1197/1&2 N64-22039 15-34

EQUATIONS FOR NONLINEAR & FORCED OSCILLATIONS
R-193 N64-22223 15-23

MATHEMATICS - STATISTICAL LINEARIZATION THEORY APPLIED TO NONLINEAR AUTOMATIC CONTROL SYSTEMS
FTD-TT-62-1385/1&2&4 N64-22623 15-20

BEHAVIOR OF NONLINEAR SIGNAL MIXING N64-22811 16-09

NONLINEAR ADAPTIVE CONTROL SYSTEMS WITH STORAGE
NASA-CR-64 N64-23031 16-06

FORCED OSCILLATIONS IN NONLINEAR AUTOMATIC CONTROL SYSTEM N64-23089 16-23

EFFECT OF SPRING CLEARANCE NONLINEARITY ON RESPONSE OF SIMPLE UNDAMPED MASS-SPRING SYSTEM N64-23157 16-23

NONLINEAR ON-OFF CONTROL SYSTEMS
REPT.-00.459 N64-23175 16-06

OPTIMUM NONLINEAR CONTROL FOR STEP AND PULSE DISTURBANCES N64-23196 16-06

NONLINEAR PROCESS IDENTIFICATION USING STATISTICAL PATTERN MATRICES
IEEE-CP-PAPER-3 N64-23199 16-20

APPROXIMATION METHOD FOR INVESTIGATING NONLINEAR SYSTEMS
FTD-TT-63-319/1&2 N64-23299 16-06

SYMMETRICAL ONE-FREQUENCY FORCED OSCILLATION IN NONLINEAR AUTOMATIC CONTROL SYSTEM N64-23484 16-06

LOADING RATIO OF SHOCK RESPONSE OF NONLINEAR SYSTEM
EM-10-23 N64-24151 16-33

PROPERTIES OF COMBINATIONS OF NONLINEAR PARAMETRIC ELEMENTS
AFCRL-64-305 N64-24189 16-09

HARMONIC BALANCE METHOD FOR INVESTIGATING NONLINEAR AUTOMATIC SYSTEMS N64-24699 17-20

STATISTICAL SOLUTION OF NONLINEAR SYSTEM N64-24705 17-16

NORMAL MODES OF VIBRATION OF NONLINEAR CONTINUOUS SYSTEMS N64-24995 17-33

STABILITY AND PERFORMANCE ANALYSIS OF CERTAIN CLASS OF NONLINEAR TIME-DEPENDENT FEEDBACK CONTROL SYSTEMS
REPT.-2900-348-R N64-25785 17-06

NONLINEAR CONTROL SYSTEM FOR DIRECTION-CONTROLLED ANTITANK MISSILES
RG-TR-64-2 N64-26828 18-06

ELECTROMAGNETIC FIELD FLUX DENSITY CALCULATIONS IN PERIODICALLY NONLINEAR SYSTEMS N64-27160 19-24

ESSENTIAL NONLINEAR DEPENDENCES IN PHYSICAL MODELS OF PLANETS N64-29088 21-05

OPTIMUM CONTROL FACTORS FOR SINGLE-LOOP LINEAR CIRCUIT - DIGITAL COMPUTATION OF VARIANCE AND AVERAGE VALUES OF NONLINEAR CONTROL SYSTEMS
FTD-TT-63-387/1&2 N64-29322 21-09

HIGH SPEED DIGITAL COMPUTATION OF NONSTATIONARY RANDOM PROCESS TRANSFER THROUGH NONLINEAR CONTROL SYSTEMS WITH VARIABLE PARAMETERS N64-29324 21-09

SUFFICIENT CONDITIONS FOR STABILITY AS TIME APPROACHES INFINITY OF NONLINEAR SYSTEM OF DIFFERENTIAL EQUATIONS
NASA-TN-D-2457 N64-29509 21-09

ADAPTIVE-PREDICTIVE MODELING OF NONLINEAR PROCESSES
NASA-CR-86 N64-30046 21-09

CALCULATION OF NONLINEAR SUPERSONIC CONICAL FLOWS USING INTEGRAL RELATIONS METHOD
FDL-TDR-64-7 N64-30125 21-11

NONLINEAR SECOND ORDER SYSTEMS DESCRIBED BY PAIR OF COUPLED FIRST ORDER DIFFERENTIAL EQUATIONS
R-223 N64-30138 21-09

CYBERNETICS - AUTOMATIC CONTROL SYSTEMS, ERRORS, SERVOMECHANISMS, LINEAR & NONLINEAR SYSTEMS, AND RELIABILITY
JPRS-26336 N64-30207 22-01

OSCILLATION PROCESSES IN COMPLEX NONLINEAR SYSTEMS FOR VARIOUS INITIAL DEVIATIONS N64-30223 22-09

NONLINEAR SYSTEMS OF AUTOMATIC CONTROL WITH EXTERNAL COMPENSATION FOR SLACK IN MECHANICAL

TRANSMISSION LINKAGE N64-30227 22-09

GENERAL METHOD FOR SOLVING COMPLEX MAGNETIC CIRCUITS AND NONLINEAR DIRECT CURRENT CIRCUITS
E-T-CH-63-1 N64-31169 22-09

CALCULATION METHODS FOR FREE AND FORCED OSCILLATIONS OF NONLINEAR AUTOMATIC SYSTEMS - AUTOMATIC CONTROL THEORY
FTD-TT-63-125/1&2 N64-31697 23-09

RESONANCE OF NONLINEAR OSCILLATOR BY DUFFING EQUATION
AROD-4105-7 N64-32808 24-23

NONLINEAR ADAPTIVE CONTROL SYSTEMS WITH STORAGE
NASA-CR-58963 N64-33170 24-09

NONLINEAR SYSTEMS SATISFYING GENERALIZED PRINCIPLE OF SUPERPOSITION, NOTING APPLICATION TO FEEDBACK CONTROL N64-33699 24-20

PARAMETRIC ANALYSIS OF NONLINEAR RLC NETWORKS
R-224 N64-33726 24-09

NONLINEARITY
CF LINEARITY
CF VOLTERRA EQUATION
EMPIRICAL PREDICTION METHOD FOR NONLINEAR NORMAL FORCE ON THIN WINGS AT SUPERSONIC SPEEDS
ARC-CP-662 N64-10401 01-03

MAPPING OF NONLINEAR INVARIANT VECTOR-DYADIC EQUATIONS TO STATE VECTOR FORM FOR OPTIMAL CONTROL
TN-41 N64-10544 01-20

NONLINEAR STRESS-STRAIN BEHAVIOR OF COPPER-ALUMINUM & SILVER-ALUMINUM CERMETS
CPD-65 N64-11282 02-19

OSCILLATION OF SOLUTIONS TO SECOND ORDER NONLINEAR NON-AUTONOMOUS DIFFERENTIAL EQUATIONS
N64-11404 02-20

DIGITAL COMPUTER PROGRAM FOR NONLINEAR PHENOMENON IN TRAVELING WAVE DEVICES AND KLYSTRONS
RADC-TDR-63-398 N64-12651 04-23

STABILIZATION OF SYSTEMS HAVING DRY FRICTION NONLINEARITY BY INTRODUCING NONLINEAR PASSIVE COMPENSATION
AIEE-CP-1061 N64-12942 04-20

NONLINEAR RESPONSE OF ELECTRON DISTRIBUTION IN PHENOMENA OF RESONANCE PROBE
NUP-63-15 N64-13003 04-24

STABILITY OF TRIVIAL SOLUTION OF SECOND-ORDER SYSTEMS WITH TWO NONLINEARITIES BY LIAPUNOV METHOD
MH-TRANS-392 N64-14805 06-20

TIME DEPENDENT NONLINEAR FORMULATION OF SHOCK PROPAGATION IN AN ORGINALLY ISOTROPIC MEDIUM
NOLTR-63-219 N64-15520 07-23

NONLINEAR MOTION OF SYMMETRIC BALLISTIC MISSILES
N64-15630 07-30

NONLINEARITY OF LOWER IONOSPHERE DETECTED BY RADIO PROPAGATION STUDIES N64-19679 12-12

GENERAL PERTURBATION EXPANSION FOR KLEIN-GORDON EQUATION WITH SMALL NONLINEAR TERM
NASA-CR-53502 N64-19986 12-20

HARMONIC ACTION ON SYSTEM OF TWO CIRCUITS COUPLED BY NONLINEAR CAPACITANCE N64-23798 16-09

NONLINEAR BOUNDARY VALUE PROBLEMS
NASA-CR-56652 N64-24019 16-20

NONLINEAR INTERACTION OF ELECTROMAGNETIC FIELD WITH ISOTROPIC, HOMOGENEOUS MEDIUM
RM-4093-PR N64-24170 16-23

NONLINEARITY OF OUTPUT FREQUENCY AS FUNCTION OF INPUT FOR VIBRATING STRING MEASURING INSTRUMENTS USING QUADRATIC TRANSDUCERS N64-24523 17-15

NOISE INTENSITY EFFECT ON PERFORMANCE OF LINEAR AND NONLINEAR NO-MEMORY FILTERS
NASA-CR-56838 N64-29198 21-08

NONLINEAR DISTORTION OF PERIODIC MAGNETOHYDRODYNAMIC WAVES
ARL-63-196 N64-31236 22-24

STRESS CONCENTRATION IN NONLINEAR CREEP OF CIRCULAR CYLINDRICAL SHELL
NONR-562/20//36 N64-33022 24-33

BISPECTRUM AS PHENOMENA OF NONLINEAR CHARACTER IN HIGHER ORDER THEORY - FOURIER TRANSFORM
TR-13 N64-33088 24-23

NONLINEARITY OF MAGNETIC SUSCEPTIBILITY IN WEAK FERROMAGNETS AND ANTIFERROMAGNETS
TM-7 N64-33338 24-25

STABILITY CRITERION OF NUMERICAL TREATMENT OF BOUNDARY CONDITIONS FOR GENERAL NONLINEAR DIFFERENCE EQUATIONS
NYO-1480-4 N64-33435 24-20

NONLINEAR PROPERTIES OF ELECTRON-HOLE PLASMAS SUSTAINING HELICAL INSTABILITY
DI-8Z-0339 N64-33598 24-25

NONMETAL
SA CERAMICS
SA PLASTIC MATERIAL
CF METAL
ABSTRACT INDEX FOR NONMETALLICS RESEARCH AND DEVELOPMENT PROGRAM
ASCRE-TM-62-24 N64-10250 01-19

MECHANICAL FASTENING, ADHESIVE BONDING, AND BRAZING APPLIED TO PROBLEM OF ATTACHMENT IN BRITTLE NONMETALLIC MATERIALS
AD-428202 N64-19935 12-19

THERMIONIC BEHAVIOR OF NONMETALLIC SOLIDS IN CONTACT WITH VAPOR N64-22988 16-19

MEASURING CHANGING TEMPERATURES OF NONMETALLIC SURFACES N64-23201 16-13

NONMETALLIC STRUCTURAL MATERIALS FOR PROTECTION AGAINST CORROSION BY HYDROCHLORIC ACID
N64-24276 17-19

PHYSICAL PROPERTIES OF NONMETALLIC MATERIALS FOR MANNED SPACE VEHICLES
REPT.-6792 N64-25627 17-19

NONMETALLIC MATERIALS FOR HIGH TEMPERATURE STRUCTURAL APPLICATIONS
SSD-TDR-64-10 N64-27541 19-18

MECHANICAL PROPERTIES OF REFRACTORY INORGANIC NONMETALLIC MATERIALS
ASD-TDR-63-431, PT. III N64-28573 20-25

SOLID STATE PHYSICS - THEORY, CRYSTALS, METALS, NONMETALS, AND RADIATION METALLURGY
ORNL-3676 N64-32925 24-25

CRYOGENIC TEMPERATURE SYSTEM FOR MEASURING THERMAL EXPANSION OF METALLIC AND NONMETALLIC MATERIALS USED IN LARGE SPACE VEHICLES
NASA-TM-X-53090 N64-33184 24-15

NONUNIFORM PLASMA
CALCULATION OF LOWEST MODES OF OSCILLATION FOR NONUNIFORM PLASMAS CONFINED BY MAGNETIC FIELDS
MATT-232 N64-14235 06-24

ALFVEN WAVES IN NONUNIFORM PLASMA
UCRL-7721 N64-26878 18-24

PLASMA NONUNIFORMITY EFFECTS ON GRID EROSION IN ELECTRON BOMBARDMENT ION ENGINE
AIAA PAPER-64-688 N64-28363 20-27

NONUNIFORM PLASMA ELECTRIC CONDUCTIVITY MEASUREMENT USING SALT SOLUTIONS
NOLTR-63-165 N64-33966 24-24

NORMAL DISTRIBUTION
ASYMPTOTIC NORMAL DISTRIBUTION OF AUTOCORRELATIONS OF LINEAR STOCHASTIC PROCESS
CU-69-63-NONR-266/33/MS N64-11940 03-20

BAYESIAN INFERENCE APPLIED TO TRACKING PROBLEM - CURRENT MEAN OF NORMAL DISTRIBUTION SUBJECTED TO CHANGES IN TIME
TR-91 N64-13092 04-20

ASYMPTOTIC EXPANSIONS FOR BEHAVIOR OF OPTIMAL SEQUENTIAL TEST FOR SIGN OF MEAN DRIFT OF WIENER-LEVY PROCESS AND MEAN OF NORMAL DISTRIBUTION
TR-90 N64-13117 04-23

APPLICABILITY OF NORMAL DISTRIBUTION LAW TO WIND CIRCULATION IN ATMOSPHERE N64-15410 07-21

BROADBAND MATCHING THEORY BASED ON COMPLEX NORMALIZATION PRINCIPLE
RADC-TDR-63-512 N64-15725 07-09

PREDICTION IN BIVARIATE NORMAL DISTRIBUTION
NRC-480 N64-31900 23-20

NORTHERN HEMISPHERE
OROGRAPHY OF NORTHERN HEMISPHERE EXPRESSED BY SPHERICAL FUNCTIONS
E-T-CH-63-8 N64-14363 06-12

AEROLOGICAL EXPLANATION OF AIR FLOW IN TROPICS BETWEEN NORTHERN AND SOUTHERN HEMISPHERES
E-T-R-63-12 N64-16486 08-21

METEOROLOGY - CHARTS OF ATMOSPHERIC DENSITY DISTRIBUTION OVER NORTHERN HEMISPHERE
USAELRDL-TR-2393 N64-19374 12-23

WATER VAPOR AND ITS FLOW OVER NORTHERN HEMISPHERE DURING INTERNATIONAL GEOPHYSICAL YEAR /IGY/
AFCRL-63-928 N64-19410 12-21

CHARTS FOR ISOBARIC SURFACES AT STRATOSPHERIC LEVELS OVER NORTHERN HEMISPHERE - INTERNATIONAL GEOPHYSICAL YEAR /IGY/ N64-19895 12-21

IGY UPPER AIR CHARTS FOR CONSTANT PRESSURE SURFACES AT STRATOSPHERIC LEVELS FOR NORTHERN HEMISPHERE - SYNOPTIC WEATHER MAPS N64-19896 12-21

SEASONAL VARIATION OF IONOSPHERIC DISTURBANCES AT HIGH LATITUDES OF NORTHERN & SOUTHERN HEMISPHERES
NASA-TT-F-8878 N64-23049 16-12

FREQUENCY OF NOCTILUCENT CLOUDS IN NORTHERN HEMISPHERE N64-23666 16-12

DAILY AND MONTHLY NORTHERN HEMISPHERE 10-MILLIBAR SYNOPTIC WEATHER MAPS FOR 1964
AD-421059 N64-28467 20-21

CLIMATOLOGICAL PATTERN OF MECHANICAL ENERGY DISSIPATION IN LOWER ATMOSPHERE OVER NORTHERN HEMISPHERE N64-29533 21-21

DAILY AND MONTHLY NORTHERN HEMISPHERE 30-MILLIBAR SYNOPTIC WEATHER MAPS, APR. - JUN. 1963
QTSR-2 N64-33091 24-21

DAILY AND MONTHLY SYNOPTIC WEATHER MAPS OF NORTHERN HEMISPHERE
QTSR-1 N64-33246 24-21

NOSE
PLETHYSMOGRAPHY OF HUMAN VASCULAR SYSTEM RESPONSE TO COLD STIMULUS IN NOSE CAVITY N64-31104 22-16

NOSE CAP
X-20A AIRCRAFT NOSE CAP
REPT.-311.25 N64-21776 15-30

REENTRY CONDITION SIMULATOR FOR TESTING NOSE CAPS OF DYNA-SOAR SPACE GLIDER
REPT.-311.11 N64-21820 15-10

NOSE CAP FABRICATION OF X-20 AIRCRAFT
D2-80608 N64-31911 23-17

NOSE CONE
PARAMETERS AFFECTING STRUCTURAL WEIGHT OF ROCKET VEHICLE NOSE CONE
NASA-TM-X-50988 N64-12161 03-30

EVAPORATIVE COOLING SHROUD FOR SOUNDING ROCKET NOSE CONE
BRL-1547 N64-21023 14-13

COOLING OF NOSE CONE BY EJECTION OF HYDROGEN AND HELIUM FROM ITS APEX AT MACH 7
NASA-TN-D-2478 N64-30098 21-13

NOTCH
TRACKING NOTCH FILTER FOR REJECTION OF CONTINUOUS WAVE INTERFERENCE N64-22826 16-09

STRESS-INTENSITY FACTORS FOR SINGLE-EDGE-NOTCH TENSION SPECIMEN BY BOUNDARY COLLOCATION OF STRESS FUNCTION
NASA-TN-D-2395 N64-26418 18-33

SHAPE FACTORS FOR TENSILE, BENDING, AND TORSIONAL STRESS COMPILED FOR SEVERAL SIMPLE NOTCH SHAPES
RSIC-213 N64-27049 19-33

THIN WALL TUBING TESTS USING ULTRASONIC SHEAR WAVES - THEORY OF ULTRASONIC WAVE PROPAGATION, EXPERIMENTAL DATA, AND NOTCH FABRICATION
HW-81956 N64-27142 19-17

TENSILE STRESS FIELDS DUE TO HOLES SUPERIMPOSED BY EXTERNAL NOTCHES, AND INVESTIGATED BY PHOTOELASTIC AND TENSILE FRACTURE TESTS
ML-TDR-64-144 N64-28543 20-33

SURFACE PRESSURE AND TURBULENT AIRFLOW IN TRANSVERSE RECTANGULAR NOTCHES
NASA-TN-D-2501 N64-33602 24-11

CRACK NUCLEATION & GROWTH RATE IN NOTCHED METAL MICROSTRUCTURES - FATIGUE MECHANISM
QPR-3 N64-33667 24-33

NOTCH STRENGTH
PHOTOELASTICITY OF ELLIPTICAL NOTCHES IN RECTANGULAR BEAMS UNDER PURE BENDING
TDR-169/3230-11/TN-16 N64-12833 04-33

ROTATING BEAM TEST FOR LOW CYCLE FATIGUE CRACK PROPAGATION STUDIES OF NOTCH-TOUGH MATERIALS
NRL-6056 N64-18869 11-18

EFFECTS OF PRODUCTION & FABRICATION VARIABLES ON NOTCH STRENGTH OF ALUMINUM-TIN-TITANIUM ALLOY AT LIQUID HYDROGEN TEMPERATURE
NASA-RP-201 N64-23276 16-18

NOTCH AND CRACK STRENGTH OF METALS UNDER STATIC OR FATIGUE LOADING
SAE PAPER-843C N64-23339 16-33

TEST METHODS FOR NOTCH STRENGTH AND FRACTURE TOUGHNESS OF SHEET METALS AND ALLOYS
AMRA-TR-64-04 N64-25329 17-18

DEPENDENCE OF CRACK EXTENSION FORCE ON CRACK LENGTH FOR SINGLE-EDGE-NOTCH TENSION SPECIMEN
NASA-TN-D-2396 N64-26452 18-33

NOTCH STRENGTH OF LOW-ALLOY STEELS AT HIGH TEMPERATURES
NRL-1523 N64-26703 18-18

EFFECT OF SECTION SIZE ON NOTCH TENSILE STRENGTH OF HIGH STRENGTH STEEL, ALUMINUM ALLOYS, AND PLEXIGLASS
SURI-MET-1078-664-12 N64-27083 19-17

OPTIMUM COMPOSITION OF MARAGING STEELS FOR NOTCH TOUGHNESS
AD-600932 N64-32408 23-18

CREEP AND NOTCH STRENGTH OF ALUMINUM WELDED JOINTS AND FILLER METALS FOR ALUMINUM ALLOYS
NASA-CR-59243 N64-33289 24-18

NOVA
SA SUPERNOVA

THE SPECTRUM OF NOVA HERCULIS N64-10022 01-05

THE SPECTRUM OF NOVA HERCULIS N64-10022 01-05

NOVA LAUNCH VEHICLE
POST-SATURN LAUNCH VEHICLE CONCEPTS AND TECHNOLOGY - NOVA ROCKET
NASA-TM-X-53010 N64-22479 15-31

NOZZLE
SA ANNULAR NOZZLE
SA CONICAL NOZZLE
SA CONVERGENT-DIVERGENT NOZZLE
SA DIVERGENT NOZZLE
SA EXHAUST NOZZLE
SA HYPERSONIC NOZZLE
SA JET NOZZLE
SA ROCKET NOZZLE
SA SHROUDED NOZZLE
SA SUPERSONIC NOZZLE
CF DIFFUSER
DIFFUSER-EJECTOR CONFIGURATION FOR TWO-NOZZLE CLUSTER ROCKET
AEDC-TDR-63-130 N64-11187 02-02

EFFECT OF NOZZLE EXPANSION RATIO INCREASE ON HEAT TRANSFER, CHEMICAL KINETICS, WALL FRICTION AND NOZZLE GEOMETRY - SPACECRAFT ENGINE PERFORMANCE
NASA-CR-52870 N64-11438 02-27

RAMJET STRUCTURAL ELEMENTS, NONREGENERATIVELY COOLED COMBUSTION CHAMBERS & NOZZLES, AND HIGH TEMPERATURE COATED TUNGSTEN STRUCTURES
REPT.-25109 N64-13596 05-27

FEASIBILITY OF TRANSPIRATION-COOLED NOZZLES
TRW-EB-5209-02 N64-14508 06-27

NONEQUILIBRIUM AIR FLOW IN NOZZLES AT HIGH TEMPERATURE
FTD-TT-62-1278/1&2 N64-16394 08-02

THEORETICAL AND EXPERIMENTAL INVESTIGATION OF DESIGN AND PERFORMANCE OF PLUG-TYPE NOZZLES
TCEA-TN-12 N64-16946 09-02

NONEQUILIBRIUM FLOW OF GAS MIXTURE THROUGH PROPULSIVE NOZZLE OF HYPERSONIC RAMJET
ARC-CP-636 N64-17248 09-02

DETERMINING STRESS DISTRIBUTION IN THIN WALLED CYLINDRICAL AND SPHERICAL PRESSURE VESSELS WITH CIRCULAR NOZZLES
NASA-CR-53580 N64-18445 10-33

POROUS TUNGSTEN TRANSPIRATION COOLED NOZZLE SYSTEM
ER-5209-03 N64-18597 11-27

HEAT TRANSFER COEFFICIENTS IN NOZZLE WITH HIGH SPEED LAMINAR FLOW
AEDC-TDR-64-61 N64-18606 11-13

AERODYNAMIC CALIBRATION DATA OF MACH NUMBER, FLOW DISTRIBUTION, AND NOZZLE PRESSURE OF 16-FOOT PROPULSION SUPERSONIC WIND TUNNEL
AEDC-TDR-64-76 N64-18646 11-10

CONTROL SURFACES IN SUPERSONIC JETS - NOZZLE SHAPE, EXTERNAL PRESSURE, & CONTROL SURFACE GEOMETRY
RAE-TRANS-1049 N64-19295 11-03

REDUCTION OF BOUNDARY LAYER THICKNESS IN LOW DENSITY NOZZLES BY WALL SUCTION AND COOLING
NASA-TM-X-53008 N64-20728 13-02

OPERATION OF SKIMMER NOZZLE AND APPLICATION TO CONDENSATION COLLOIDAL ION SOURCE
R-90 N64-21046 14-26

DISPERSE ATOMIZATION IN NOZZLES OPERATING ON PRINCIPLE OF BILATERAL WASHING OF LIQUID SURFACE WITH GAS
FTD-TT-63-290/1&2&4 N64-22346 15-11

STRUCTURAL CHANGES DURING UNSTEADY HEATING OF NOZZLE VANES MADE FROM CAST NICKEL BASE HEAT RESISTANT ALLOY N64-24531 17-18

COMPUTER PROGRAM TO DETERMINE NOZZLE GEOMETRY FOR SUPERSONIC WIND TUNNEL
NOLTR-64-81 N64-26954 18-20

THRUST DIRECTIONAL CONTROL OF CLUSTERED NOZZLES
RN-62-24 N64-27214 19-27

PROPELLANT CHARGES AND NOZZLE CONFIGURATIONS FOR CARTRIDGE DISSEMINATION OF LIQUIDS AND POWDERS
ER-3043C N64-27776 19-17

COMPARATIVE THRUST MEASUREMENTS ON JET-FLAP CONFIGURATIONS AND CIRCULAR NOZZLES
ARC-CP-616 N64-28032 20-03

HEAT TRANSFER IN NOZZLE SYSTEMS - NOZZLE DESIGN AND PROPELLANT PROPERTIES, AND RELATION OF NOZZLE HEAT TRANSFER WITH ROCKET MOTOR OPERATING PARAMETERS
ABL/ARPA/QTSR-7 N64-29381 21-13

OPERATION OF SKIMMER NOZZLE AND USE AS COLLOIDAL ION SOURCE AND FOR SYNTHESIS OF CHEMICAL SUBSTANCES, CLUSTER IONS, OR CHARGED BODIES
TN-R-90 N64-30760 22-27

NOZZLE BLADE COOLING AND AXIAL COMPRESSORS
FTD-MT-63-203 N64-33701 24-13

COMPUTER CALCULATIONS OF REAL GAS EFFECTS IN MASS FLOW THROUGH CRITICAL-FLOW NOZZLES
NASA RP-356 N64-34012 24-11

NOZZLE EXPANSION
EFFECT OF NOZZLE EXPANSION RATIO INCREASE ON HEAT TRANSFER, CHEMICAL KINETICS, WALL FRICTION AND NOZZLE GEOMETRY - SPACECRAFT ENGINE PERFORMANCE
NASA-CR-52870 N64-11438 02-27

INTEGRATING NOZZLE EXPANSION SURFACES AND STRUCTURAL OR TANK SURFACES OF SPACE VEHICLES
NASA-CR-53924 N64-19926 12-27

LARGE EFFECTIVE EXPANSION RATIO NOZZLES FOR SPACECRAFT ENGINES
NASA-CR-56547 N64-24033 16-02

JET SPREADING CHARACTERISTICS FROM CONICAL UNDEREXPANDED NOZZLES INTO QUIESCENT ATMOSPHERE
AEDC-TDR-64-95 N64-26916 18-02

COMPUTER PROGRAM FOR STUDY OF NONEQUILIBRIUM FLOW EFFECTS IN HIGH EXPANSION RATE NOZZLES
NASA-CR-54042 N64-31452 23-02

FILM COOLING, NOZZLE EXPANSION, COMBUSTION INSTABILITY, AND ABLATIVE COOLING IN ROCKET THRUST CHAMBERS
REPT.-212/SA3-2.2-M-3 N64-32173 23-17

EFFECTS OF NOZZLE DIAMETER AND POSITION ON BASE DRAG FOR CONCENTRIC SUSTAINER NOZZLES
RF-TM-63-25 N64-32649 23-02

NOZZLE FLOW
REAL GAS HYPERSONIC NOZZLE FLOW PARAMETERS FOR NITROGEN IN THERMODYNAMIC EQUILIBRIUM
NASA-TN-D-2019 N64-10057 01-03

AERODYNAMIC HINGE MOMENTS CAUSED BY EXTERNAL FLOW ON SATURN I, BLOCK I NOZZLE CONFIGURATIONS
NASA-TM-X-51044 N64-10105 01-10

MECHANISM OF CRYSTALLIZATION AND DEVELOPMENT OF NOZZLE FLOW FOR CONTINUOUS CASTING OF STEEL
JPRS-18710 N64-10785 02-10

SPECTROGRAPHIC DETERMINATION OF TEMPERATURE ACROSS NOZZLE EXIT OF ARC-HEATED WIND TUNNEL
ASD-TDR-63-98 N64-12595 04-14

CHEMICAL & IONIZATION PROCESSES IN HYPERSONIC NOZZLE AND AXISYMMETRIC BLUNT BODY FLOWS
ASD-TDR-62-1078 N64-12599 04-14

CATALYSIS OF HYDROGEN ATOM RECOMBINATION IN NOZZLE FLOWS
AIAA PAPER-64-98 N64-14066 05-14

METHOD OF CHARACTERISTICS INCORPORATING REACTION KINETICS FOR TWO-DIMENSIONAL AND AXISYMMETRIC EXHAUST NOZZLE FLOW PERFORMANCE ESTIMATION
AIAA PAPER-64-97 N64-14259 06-02

GENERAL METHOD FOR NUMERICAL INTEGRATION THROUGH SADDLE POINT SINGULARITY WITH APPLICATION TO ONE-DIMENSIONAL NONEQUILIBRIUM NOZZLE FLOW
AEDC-TDR-64-29 N64-14665 06-20

TOTAL ENTHALPY OF ONE-DIMENSIONAL NOZZLE FLOW USING REAL GASES
NASA-TN-D-2233 N64-16119 08-13

NONODIMENSIONAL ADIABATIC EXPANSION FLOW OF TWO-PHASE MEDIUM IN STRAIGHT NOZZLE
FTD-TT-63-378/1&2 N64-16481 08-11

CHEMISTRY, PHYSICS, AND THERMODYNAMICS OF ROCKET NOZZLE FLOW, MATERIAL STRESS, & SOLID PROPELLANTS
P-64-6 N64-20307 13-26

THERMODYNAMIC NONEQUILIBRIUM IN HIGH ENTHALPY NOZZLE FLOW N64-20616 13-02

BASE DRAG CHARACTERISTICS OF OGIVE-CYLINDER MISSILE MODEL WITH BASE NOZZLE FLOW
AEDC-TDR-64-87 N64-20838 14-02

SUPERSONIC TWO-DIMENSIONAL AND AXISYMMETRIC NONEQUILIBRIUM FLOW THEORY AND CALCULATIONS FOR AXISYMMETRIC FLOW THROUGH NOZZLES
NASA-TR-R-164 N64-21257 14-11

APPROXIMATION SOLUTIONS FOR COURSE AND VELOCITY DISTRIBUTION OF BOUNDARY MACH CURVE - NOZZLE FLOW
DFL-219 N64-21701 15-02

VIBRATIONAL RELAXATION AND RECOMBINATION OF NITROGEN AND AIR IN HYPERSONIC NOZZLE FLOWS
REPT.-63-RL-/3429C/ N64-21734 15-11

EFFECTS OF GAS STRATIFICATION ON CHOKED NOZZLE FLOW
AIAA PAPER-64-266 N64-23612 16-11

EFFECT OF MASS INJECTION ON HEAT TRANSFER TO SURFACE OF AXISYMMETRIC NOZZLE IN TURBULENT FLOW
ARL-63-103 N64-24932 17-02

JET FORMATION AND ANGLES OF DEFLECTION RESEARCH - NOZZLE FLOW N64-26031 18-11

EFFECTS OF VIBRATIONAL RELAXATION ON HYPERSONIC NOZZLE FLOWS N64-26129 18-02

ELECTRON-ION RECOMBINATION IN ARGON FLOWING THROUGH SUPERSONIC NOZZLE N64-26130 18-24

EFFECT OF RECOMBINATION RATE ON FLOW OF DISSOCIATED HYDROGEN IN SHOCK HEATED HYDROGEN-ARGON MIXTURES IN SUPERSONIC NOZZLE EXPANSION FLOW
NASA-CR-58137 N64-26367 18-02

HIGH EFFECTIVE AREA RATIO NOZZLES FOR SPACECRAFT ENGINES
NASA-CR-56978 N64-27286 19-02

FREEZING POINT STUDY OF SINGLE COMPONENT NONEQUILIBRIUM NOZZLE FLOW
RM-143 N64-27783 19-02

TRANSONIC GAS FLOW THEORY - NEW VARIABLES FOR CHAPLYGIN EQUATIONS FOR FLOW IN NOZZLES N64-27978 20-02

EXPANSION AND CONDENSATION BEHAVIOR OF ALKALI METAL AND MERCURY VAPORS FLOWING THROUGH NOZZLES
NASA-TN-D-2475 N64-28234 20-13

NOZZLE PROFILE CALCULATION WITH GIVEN VELOCITY DISTRIBUTION ALONG NOZZLE AXIS - AXISYMMETRIC FLOW
REPT.-143 N64-31432 23-11

FLOW OF GAS-PARTICLE MIXTURES IN AXISYMMETRIC NOZZLES
TM-7106-0023-MUO N64-33864 24-11

NOZZLE INSERT
TUNGSTEN NOZZLE INSERT FOR SOLID PROPELLANT ROCKET ENGINE
RTD-TR-7-797-A/I/ N64-31065 22-17

HYDROTESTING OF MOTOR CASES AND STATIC TESTING OF NOZZLE THROAT INSERT
REPT.-30-64 N64-33732 24-27

NOZZLE WALL
NOZZLE THROAT REFRACTORY MATERIAL REACTION WITH SOLID AND GASEOUS COMBUSTION PRODUCTS
U-2403 N64-13986 05-27

FILM PROTECTED CONVECTIVELY COOLED NOZZLE FOR ADVANCED SOLID ROCKET
RPL-TDR-64-124 N64-30965 22-27

BOUNDARY LAYER LAMINARIZATION EFFECT ON HEAT FLUX OF ROCKET NOZZLE THROAT REGION
C-910100-11 N64-31318 22-11

LAMINAR BOUNDARY LAYER FLOW ON NOZZLE WALL TO REDUCE HEAT TRANSFER
C-910100-10 N64-32245 23-17

LAMINARIZATION OF NOZZLE WALL BOUNDARY LAYERS TO REDUCE HEAT FLUX
C-910100-9 N64-32390 23-13

NUCLEAR CHEMISTRY
CF REACTOR CHEMISTRY
NUCLEAR, INORGANIC, ISOTOPE, RADIATION, & ORGANIC CHEMISTRY - AQUEOUS SYSTEMS, ELECTROCHEMICAL KINETICS, CHEMICAL PHYSICS, AND WATER RESEARCH
ORNL-3679 N64-30664 22-07

NEUTRON GENERATOR APPLICATIONS - NUCLEAR PHYSICS AND CHEMISTRY, CHEMICAL ENGINEERING, BIOLOGY, AND RADIATION MEDICINE N64-31788 23-23

NUCLEAR-ELECTRIC PROPULSION
TEMPERATURE CONTROL ENGINEERING OF NUCLEAR-ELECTRIC SPACECRAFT
ARS PAPER-2392-62 N64-22465 15-27

SCIENTIFIC MISSIONS ANALYZED FOR PAYLOAD AND VELOCITY REQUIREMENTS OF NUCLEAR-ELECTRIC PROPELLED SPACECRAFT
AIAA PAPER-64-714 N64-28371 20-27

SPACE NUCLEAR PROPULSION - SOLID CORE NUCLEAR ROCKETS, ELECTRIC PROPULSION AND ADVANCED REACTOR ROCKET CONCEPTS
AIAA PAPER-64-523 N64-28926 20-27

PERFORMANCE PREDICTION FOR LUNAR LOGISTIC VEHICLE WITH NUCLEAR-ELECTRIC PROPULSION
AIAA PAPER-64-497 N64-33638 24-32

NUCLEAR ENERGY
NUCLEAR SPECTROSCOPY - STRUCTURE OF ATOMIC NUCLEI AND NATURE OF BASIC NUCLEAR FORCES
AD-601884 N64-29240 21-23

NUCLEAR EXPLOSION
SA GNOME PROJECT
SA STAR FISH PROJECT
TRAPPED ELECTRON FLUX MEASUREMENTS FROM HIGH ALTITUDE NUCLEAR EXPLOSION
AFCRL-63-891 N64-12181 03-12

ROCK AND SOIL WAVE ATTENUATION RESPONSE TO DYNAMIC LOADING BY NUCLEAR EXPLOSIONS N64-12414 04-23

ELECTROMAGNETIC PULSE RESULTING FROM NUCLEAR DETONATIONS - BIBLIOGRAPHY
DASA-618 N64-12579 04-23

APPLICATION OF RADIOCHEMISTRY TO DEFINITION OF PROPERTIES OF FALLOUT AND DEBRIS FROM NUCLEAR EXPLOSIONS N64-15111 07-07

CLOSE-IN ELECTROMAGNETIC FIELDS PRODUCED BY

GEOMAGNETIC FIELD INTERACTION WITH ELECTRONS FROM NUCLEAR EXPLOSION
RM-3525-PR N64-16044 07-23

D-LAYER DISSOCIATIVE RECOMBINATION COEFFICIENT DETERMINED FROM HIGH ALTITUDE NUCLEAR EXPLOSION
P-2756 N64-16248 08-12

FEASIBILITY STUDY OF NUCLEAR BLAST SIMULATOR FOR PRODUCTION OF TRANSIENT FLOW FIELD ASSOCIATED WITH NUCLEAR DETONATIONS
IITRI-6035, VOL. 1, FINAL N64-17478 09-10

MICROPULSATION FROM METEORS, NUCLEAR EXPLOSION, AND MANMADE SOURCES
AD-433505 N64-17634 09-12

ENGINEERING OF CRATERS PRODUCED BY NUCLEAR EXPLOSIONS
UCRL-7657 N64-17705 09-17

DISTRIBUTION OF FISSION PRODUCT DEBRIS IN SOUTHERN CONJUGATE AREA FROM HIGH ALTITUDE NUCLEAR TEST
NASA-CR-53592 N64-18428 10-12

SOLAR RADIATION AND IONOSPHERE, ATMOSPHERIC ELECTRICITY, ATMOSPHERIC NUCLEAR EXPLOSIONS, AND METEOROLOGY OF UPPER ATMOSPHERE - BIBLIOGRAPHY
AID-P-64-16 N64-19425 12-12

PHASE CHANGES IN VERY LOW FREQUENCY RADIO PROPAGATION DURING AND AFTER NUCLEAR EXPLOSION
N64-19697 12-12

PEACEFUL USES FOR NUCLEAR EXPLOSIVES - ANNOTATED BIBLIOGRAPHY
TID-3522/REV. 7/ N64-19852 12-26

RADIO PROPAGATION EFFECTS AFTER HIGH ALTITUDE NUCLEAR BURST DUE TO ABNORMAL IONIZATION
RM-4037-PR N64-20297 13-08

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N64-20716 13-23

OPTICAL, ELECTROMAGNETIC, AND SATELLITE OBSERVATIONS OF HIGH ALTITUDE DETONATIONS
N64-20755 14-12

HIGH ALTITUDE NUCLEAR DETONATIONS - SATELLITE OBSERVATIONS N64-20756 14-12

SPORADIC E LAYER PHENOMENA ASSOCIATED WITH HIGH ALTITUDE NUCLEAR EXPLOSION N64-20757 14-12

AERIAL PHOTOGRAPHIC COVERAGE BY NAVAL AIRCRAFT OF NUCLEAR EXPLOSION
PNE-230F N64-20834 14-15

COMPUTER PROGRAM FOR TRAJECTORIES AND PROPERTIES OF SLURRY PARTICLE FALLOUT FROM SEA WATER SURFACE NUCLEAR EXPLOSIONS
USNRDL-TR-724 N64-20861 14-23

FISHBOWL NUCLEAR EXPLOSION EFFECTS ON VERY LOW FREQUENCY TRANSMISSION OF OMEGA SYSTEM
NEL-1207 N64-21173 14-08

ELECTROMAGNETIC SIGNAL PRODUCED BY LOW-ALTITUDE NUCLEAR EXPLOSIONS
RM-3884-PR N64-21724 15-23

PREDICTING EFFECTS OF NUCLEAR EXPLOSIONS UPON HIGH FREQUENCY COMMUNICATION SYSTEMS
AD-434554 N64-22196 15-08

FIREBALL FROM NUCLEAR EXPLOSION
LA-3064 N64-23219 16-23

FLUXES AND ENERGY DISTRIBUTIONS OF ELECTRONS INJECTED BY HIGH-ALTITUDE NUCLEAR EXPLOSIONS - STAR FISH PROJECT
TDR-269/4260-20/-2 N64-23982 16-12

ATMOSPHERIC PRESSURE WAVE GENERATED BY NUCLEAR EXPLOSION
REPT.-5033-1-T N64-24201 16-23

MODEL FOR PREDICTION OF FIRE SPREAD FROM NUCLEAR ATTACK, ESTIMATION OF THERMAL DESTRUCTION, AND MEASURES FOR FIRE FIGHTING AND PREVENTION
WSS/CI PAPER-64-1 N64-24373 17-24

TRANSPORT RATE OF RADIOACTIVE AEROSOLS IN TROPOSPHERE DUE TO NUCLEAR EXPLOSIONS IN NORTHERN HEMISPHERE N64-24800 17-21

GROUND MOTION IN ELASTIC REGION CAUSED BY ENERGY DELIVERED DIRECTLY TO GROUND BY NUCLEAR EXPLOSION
RTD-TDR-63-3125 N64-25645 17-23

COMPUTER CODE FOR SIMULATING INTERACTION BETWEEN REENTRY VEHICLE AND SHOCK WAVE FROM NUCLEAR EXPLOSION - HYDRODYNAMICS
TO-8-64-10 N64-25958 18-11

PRODUCTION OF TRITIUM BY CONTAINED NUCLEAR EXPLOSIONS IN SALT - REDUCTION OF ALKALINE EARTH SULFATES BY HYDROGEN
ORNL-3334, PT. II N64-27041 19-07

PROPAGATION CHARACTERISTICS OF ATMOSPHERIC PRESSURE PULSES GENERATED BY NUCLEAR EXPLOSIONS
AFCRL-64-424 N64-27537 19-12

PREDICTION OF CRATERING DIMENSIONS AND FREE-FIELD GROUND MOTIONS RESULTING FROM CHEMICAL AND NUCLEAR DETONATIONS
WL-TDR-64-27 N64-27963 20-23

SEISMIC DISTINCTIONS OF EARTHQUAKES AND NUCLEAR EXPLOSIONS
AD-442254 N64-28623 20-25

EFFECTS OF HIGH ALTITUDE NUCLEAR EXPLOSIONS
NASA-TN-D-2402 N64-28721 20-20

MATHEMATICAL MODEL OF RADIO EMISSION FROM NUCLEAR EXPLOSION
RM-4134 N64-29858 21-23

RECTIFICATION OF OBLIQUE AERIAL PHOTOGRAPHS TO OBTAIN CONTOURS OF BASE SURGE FORMED BY UNDERWATER NUCLEAR EXPLOSION
NOLTR-64-91 N64-29860 21-21

MODELING TECHNIQUES IN STUDY OF PROPAGATION AND SPREAD OF FIRES INITIATED BY NUCLEAR ATTACK
AD-416537 N64-30074 21-13

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FTD-MT-64-266 N64-31884 23-12

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TDCK-30050-S1 N64-32017 23-11

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R64TMP-8-/3/ N64-32464 23-20

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AD-444659 N64-33365 24-12

NUCLEAR FUEL
CF FUEL ELEMENT
CF REACTOR FUEL
USE OF THORIUM AND URANIUM DIOXIDES AS NUCLEAR FUELS
CRFS-1154 N64-10861 02-23

EVALUATION OF METAL-TO-METAL BASKET-TYPE ELECTROLYTIC DISSOLVER FOR NUCLEAR FUELS
IDO-14604 N64-11807 03-17

ELECTRON BEAM WELDING OF NUCLEAR FUEL CLADDING COMPONENTS
HW-79143 N64-11958 03-17

PLUTONIUM-URANIUM-CARBON SYSTEMS AS POSSIBLE FUELS FOR LIQUID-METAL COOLED FAST REACTORS
ANL-6678 N64-12355 03-19

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DP-843 N64-13372 04-33

POWDER PREPARATION OF SOLID PLUTONIUM COMPOUNDS FOR SOLID FUEL SYSTEMS
LAMS-3023 N64-13589 05-18

MEASUREMENT METHODS FOR PLUTONIUM & URANIUM IN NUCLEAR FUEL CYCLE
TID-7029 N64-13907 05-07

CONTINUOUS AQUEOUS PROCESS FOR RECOVERY OF URANIUM FROM ZIRCONIUM ALLOY NUCLEAR FUELS
IDO-14619 N64-14241 06-07

REENTRY OF FUELED GRAPHITE PARTICLES
N64-14577 06-30

PHYSICS OF FUEL MANAGEMENT IN THE SENN REACTOR - COST ANALYSIS
NYO-9991 N64-14875 06-23

FUEL MANAGEMENT EFFECTS ON TOTAL COSTS OF NUCLEAR POWERPLANT AND ON POWER COST
NYO-9990 N64-14909 06-23

DESIGN OF FUELED, DOUBLE-DIODE THERMIONIC MODULE FOR OUT-OF-PILE TESTING
MND-2945-4 N64-15961 07-06

PERFORMANCE OF URANIUM DIOXIDE AND STAINLESS STEEL CLAD FUEL AT HIGH POWER DENSITY CONDITIONS AND REDUCTIONS IN FUEL FABRICATION COSTS
GEAP-4294 N64-16250 08-23

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HW-76303 N64-17221 09-19

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LAMS-3054 N64-17755 09-18

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MND-1123 N64-20195 13-06

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ORNL-3577 N64-22111 15-18

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ORNL-3639 N64-23262 16-23

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TID-11295 3RD ED. N64-33090 24-18

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AD-602197 N64-32607 23-15

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CF PARAMAGNETISM
CROSS SECTIONS FOR INELASTIC NUCLEAR PROCESSES AT 1.96 BEV/C - PRODUCTION OF TWO RESONANCES
UCRL-11068 N64-11990 03-23

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NASA-CR-55096 N64-12127 03-23

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AD-423292 N64-12986 04-18

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NASA-CR-53008 N64-13277 04-23

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RADC-TDR-63-526 N64-15822 07-18

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ARDD-2276-6 N64-17482 09-23

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UCRL-11169 N64-18985 11-23

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NUCLEAR MAGNETIC RESONANCE OSCILLATOR - OPTICAL PUMPING N64-21011 14-25

NUCLEAR MAGNETIC RESONANCE METHOD OF MEASURING CONSUMPTION OF LIQUIDS
FOCL-TM-64-2 N64-21331 14-11

ANALYTICAL APPLICATION OF NUCLEAR MAGNETIC RESONANCE
TR-70 N64-24450 17-07

MAXIMUM AMPLITUDE OF NUCLEAR MAGNETIC RESONANCE SIGNAL IN FLOW-THROUGH PICKUP
FTD-TT-64-297/1&2 N64-25449 17-24

PULSE, ECHO, AND RELAXATION TIMES IN NUCLEAR MAGNETIC RESONANCES
NADC-AW-6332 N64-25945 18-23

NUCLEAR MAGNETIC RESONANCE AND SPIN LATTICE RELAXATION TIMES OF LIQUID AND SOLID HELIUM-3
AD-601582 N64-27689 19-23

NUCLEAR MAGNETIC RESONANCE IN SOLID HYDROGEN AND DEUTERIUM AT CRYOGENIC TEMPERATURES AND HIGH PRESSURES
TR-3 N64-28622 20-25

SPIN ECHO PHENOMENA - MEASUREMENT OF NUCLEAR MAGNETIC RELAXATION & MICROSTRUCTURE OF MOLECULES, APPLICATION IN PREPARATION OF DELAY LINES & STORAGE UNITS N64-29055 21-23

SINGLE CIRCUIT PARAMETRIC GENERATOR TO RECORD NUCLEAR MAGNETIC RESONANCE N64-29135 21-15

NUCLEAR MAGNETIC RESONANCE IN FERROMAGNETIC MATERIALS OBSERVED IN ZERO APPLIED MAGNETIC FIELD
AD-602514 N64-29747 21-25

FLUORINE ATOM NUCLEAR-MAGNETIC-RESONANCE SHIELDING PARAMETERS OF FLUOROBENZONITRILE DONOR-ACCEPTOR COMPLEXES - QUANTITATIVE MEASURE OF ELECTRON ACCEPTOR STRENGTHS
TR-1 N64-30032 21-07

COMPUTER ANALYSIS OF CHEMICAL EXCHANGE RATE FROM NUCLEAR MAGNETIC RESONANCE SPIN ECHOES
TR-71 N64-30737 22-07

NUCLEAR MAGNETIC SUSCEPTIBILITY AND SPIN-LATTICE RELAXATION TIME MEASUREMENTS OF LIQUID HELIUM 3
AD-420098 N64-31157 22-23

APPLICATION OF NUCLEAR RESONANCE SENSING TO MEASUREMENT OF MECHANICAL MOTION

R63SD317 N64-31158 22-23

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JPRS-26676 N64-32053 23-07

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NASA-CR-59032 N64-33167 24-07

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AD-600874 N64-33265 24-23

NUCLEAR PARTICLE
SA MUON
SA NEUTRON
SA POSITRON
SA PROTON
CF CHARGED PARTICLE
CF MESON
BARYON-LEPTON SYMMETRY PRINCIPLE AS BASIS FOR UNIVERSAL THEORY OF SEMIWEAK INTERACTIONS
URPA-14 N64-11343 02-23

LUNIK II MEASUREMENTS OF NUCLEAR COMPONENT OF PRIMARY COSMIC RAYS WITH CERENKOV COUNTER
N64-11403 02-28

INTRANUCLEAR CASCADE CALCULATIONS FOR INCIDENT PARTICLE ENERGIES TO 2-GEV N64-12539 04-23

RESONANCE SCATTERING THEORY - MULTIPLE CHANNEL COLLISIONS OF NUCLEAR PARTICLES
REPT.-2-12-64-1 N64-20890 14-23

EXISTENCE OF DIPROTON WITH FINITE LIFETIME
N64-24976 17-23

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NASA-TM-X-51815 N64-26366 18-23

GENERATION OF BARYONS & RESONANCES IN BROKEN UNITARY SYMMETRY
TH-62 N64-26965 18-23

PHOTOPRODUCTION OF BARYONS & MESONS AND UNITARY SYMMETRY
UR-875-52 N64-33006 24-23

SUPERCONDUCTING NUCLEAR PARTICLE DETECTOR
AI-64-159 N64-33744 24-10

NUCLEAR PHYSICS
SA FEYNMAN DIAGRAM
CF PLASMA PHYSICS
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TID-18275 N64-10320 01-10

CONFERENCE ON PLASMA PHYSICS AND CONTROLLED THERMONUCLEAR FUSION RESEARCH N64-10449 01-23

BARYON-LEPTON SYMMETRY PRINCIPLE AS BASIS FOR UNIVERSAL THEORY OF SEMIWEAK INTERACTIONS
URPA-14 N64-11343 02-23

LOW-ENERGY NEGATIVE PION INTERACTIONS IN DEUTERIUM
UCRL-10977 N64-11475 03-23

NUCLEAR CROSS SECTION MEASUREMENT
WASH-1042 N64-11645 03-23

PROTON BEAM EXPOSURE OF NUCLEAR EMULSIONS EMBEDDED IN STEEL SHIELD N64-12537 04-23

ALPHA PARTICLE ENERGY SPECTRA FROM DEUTERON-ALPHA REACTIONS ON LITHIUM, BERYLLIUM, CARBON, NITROGEN, & OXYGEN USING 24-MEV DEUTERONS
UCRL-10993 N64-13217 04-23

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IDO-16917 N64-13900 05-18

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TR-14 N64-13991 05-23

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UCRL-11080 N64-14164 05-23

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QPR-1 N64-14302 06-06

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PR-P-59 N64-14671 06-23

THERMONUCLEAR PHYSICS
ORNL-3564 N64-14954 06-24

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PR-P-60 N64-16190 08-23

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MLM-1157 N64-16265 08-23

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LAMS-2963 N64-17500 09-23

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CERN-64-1 N64-19061 11-23

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N64-19829 12-23

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LNF-64/15 N64-25643 17-23

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AECL-2044 N64-29775 21-23

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NASA-CR-52958 N64-29787 21-23

FUSION PLASMA NUCLEAR PROPULSION SYSTEM
N64-31615 23-27

FISSION AND FUSION NUCLEAR POWER FOR INTERSTELLAR TRAVEL N64-31616 23-29

NUCLEAR EMULSION OF LOW-ENERGY GALACTIC COSMIC-RAY HYDROGEN AND HELIUM NUCLEI
NASA-RP-336 N64-31720 23-28

APPLICATION OF NEUTRON GENERATORS IN NUCLEAR GEOPHYSICS - GEOLOGICAL EXPLORATION
N64-31777 23-12

NEUTRON GENERATOR APPLICATIONS - NUCLEAR PHYSICS AND CHEMISTRY, CHEMICAL ENGINEERING, BIOLOGY, AND RADIATION MEDICINE N64-31788 23-23

CORIOLIS AND BLOCKING EFFECTS IN DEFORMED EVEN-EVEN NUCLEI
TR-372 N64-32054 23-23

GAMMA RADIATION EXPOSURES RECEIVED BY PERSONNEL AT NUCLEAR RESEARCH FACILITY
AECL-2050 N64-32308 23-16

AEROSPACE RESEARCH - NUCLEAR PHYSICS, AND PHYSICAL, MATHEMATICAL, ENGINEERING, ENVIRONMENTAL, AND LIFE SCIENCES
OAR-64-6 N64-32592 23-10

NAVY RESEARCH ANNUAL REPORT - ATMOSPHERE AND ASTROPHYSICS, CHEMISTRY, ELECTRONIC DEVICES, MECHANICS, METALLURGY AND CERAMICS, NUCLEAR AND ATOMIC PHYSICS, AND SOLID STATE PHYSICS
AD-448760 N64-32600 23-23

NUCLEAR RESEARCH, INCLUDING WORK ON HIGH TEMPERATURE MATERIALS, ZIRCONIUM METALLURGY, HIGH FLUX ISOTOPE REACTOR, GAS COOLED REACTOR, AND THORIUM UTILIZATION PROGRAM
ORNL-3670 N64-32700 24-23

ION AND PLASMA TECHNOLOGY FOR SPACE PROPULSION, POWER GENERATION, AND NUCLEAR FUSION APPLICATIONS
N64-32774 24-24

CIRCUIT MODULES FOR NUCLEAR EXPERIMENTATION - FAST COINCIDENCE CIRCUITRY WITH ANTICOINCIDENCE AND CURREN LINEAR GATE
LNF-64/17 N64-33857 24-09

NUCLEAR POWER
EFFECT OF THERMAL RADIATION & SURFACING ON NUCLEAR ELECTRIC POWER SUPPLY PERFORMANCE
N64-10956 02-06

NOBLE GAS PLASMAS & EMITTER MATERIALS FOR NUCLEAR THERMIONIC CONVERTERS N64-22980 16-09

NUCLEAR THERMIONIC CONVERTERS N64-22996 16-09

APPLICATION OF NUCLEAR-ELECTRIC POWER SUPPLY SYSTEMS TO MANNED ORBITAL SPACE STATIONS
NASA-CR-54161 N64-29574 21-06

NUCLEAR-ELECTRIC POWER REQUIREMENTS FOR ELECTRIC ROCKETS - CONTACT AND BOMBARDMENT ION ENGINES, ARC JETS, AND PULSED PLASMA ENGINES
AIAA PAPER-64-765 N64-29575 21-06

ONE MEGAWATT TURBONUCLEAR SPACE POWER SYSTEM FOR ELECTRIC PROPULSION N64-31610 23-06

THERMIONIC-NUCLEAR SPACE POWER SYSTEMS FOR ELECTRIC PROPULSION N64-31612 23-06

NUCLEAR POWERPLANT
EFFECTS OF FUEL MANAGEMENT PROGRAM ON REACTOR CORE AND NUCLEAR PLANT CHARACTERISTICS
TID-7665 N64-10426 01-26

SHIELDING DESIGN FOR CLOSED-CYCLE, GAS-COOLED NUCLEAR POWERPLANT
IDO-28609 N64-10857 02-23

FLIGHT-TYPE COOLANT PUMP FOR NUCLEAR AIRCRAFT POWERPLANT IN LITHIUM COOLED REACTOR EXPERIMENT
PWAC-384 N64-11244 02-17

SUPERCRITICAL WORKING FLUID ENGINE FOR NUCLEAR POWERED ELECTRIC GENERATING SYSTEM
NYO-10398 N64-11629 03-06

FLOW CONTROLLER FOR LIQUID SODIUM COOLANT IN NUCLEAR POWERPLANTS - ENVIRONMENTAL AND PERFORMANCE TESTING
NAA-SR-7534 N64-11999 03-06

DESIGN REQUIREMENTS OF GAS-COOLED NUCLEAR REACTOR PRIMARY LOOP
NYO-9788 N64-14217 06-17

NUCLEAR RADIATION SAFETY OF ADVANCED NUCLEAR SPACE POWERPLANTS - NONBOILING, LITHIUM-COOLED REACTOR N64-14562 06-06

COMPUTER SIMULATION OF COORDINATED ECONOMIC OPERATION OF COMBINED HYDRO- & THERMOELECTRIC SITES AND ROLE OF NUCLEAR POWERPLANTS
EUR-468.I N64-14747 06-01

POTASSIUM-STEAM BINARY VAPOR CYCLE FOR NUCLEAR POWER PLANT
ORNL-3584 N64-21041 14-06

AUTOMATIC CONTROL OF NUCLEAR POWERPLANTS N64-23591 16-04

GAS COOLED REACTOR DESIGN AND CONSTRUCTION FOR MOBILE LOW POWER NUCLEAR POWERPLANT
IDO-28626 N64-25191 17-23

ENGINEERING EVALUATION OF ADVANCED NUCLEAR THERMIONIC SPACE POWERPLANTS
AIAA PAPER-64-766 N64-28412 20-06

REACTOR CORE COMPONENT HANDLING EQUIPMENT AND TECHNIQUES FOR NUCLEAR POWER FACILITY
NAA-SR-7785 N64-29753 21-10

OPTIMIZATION OF LARGE SCALE NUCLEAR MAGNETOPLASMADYNAMIC GENERATORS N64-30447 22-24

NONEQUILIBRIUM FLOW FOR INCREASING ELECTRICAL CONDUCTIVITY OF WORKING FLUID IN NUCLEAR PLASMA GENERATOR N64-30449 22-06

COST ESTIMATES AND OPERATING STANDARDS FOR MILITARY NUCLEAR POWERPLANTS
WL-TDR-64-25 N64-30749 22-06

MOBILE, LOW POWER, NUCLEAR POWERPLANT WITH GAS COOLED REACTOR SYSTEM
IDO-28632 N64-31594 23-17

VAPOR CYCLE COOLANT REQUIREMENTS FOR NUCLEAR POWER PLANTS IN INTERPLANETARY SPACE TRAVEL
ANL-6857 N64-32853 24-06

NUCLEAR PROPULSION
SA NUCLEAR FUEL
CHARACTERISTICS OF BERYLLIUM OXIDE FOR NUCLEAR PROPULSION - REACTOR MATERIAL & FUEL COMPONENT
UCRL-7428 N64-12041 03-19

FEASIBILITY STUDY AND REQUIREMENTS OF NUCLEAR FISSION OR FUSION PROPELLED VEHICLE FOR INTERSTELLAR TRAVEL
NASA-CR-53072 N64-16068 07-29

NUCLEAR SPACE PROPULSION SYSTEMS
AIAA PAPER-64-556 N64-27967 20-27

NUCLEAR PROPULSION RADIATION EFFECT ON RELIABILITY CONTROL AND MAINTAINABILITY CONCEPTS IN REACTOR IN-FLIGHT TEST /RIFT/ PROJECT N64-28293 20-17

COMPARISON OF ELECTRIC PROPULSION SYSTEMS WITH NUCLEAR OR CHEMICAL PROPULSION FOR SPACE MISSIONS
AIAA PAPER-64-715 N64-28372 20-27

FUEL CONTAINMENT IN GASEOUS CORE NUCLEAR ROCKET BY MAGNETOHYDRODYNAMIC DRIVEN VORTICES
D2-22408 N64-28743 20-07

SPACE NUCLEAR PROPULSION - SOLID CORE NUCLEAR ROCKETS, ELECTRIC PROPULSION AND ADVANCED REACTOR ROCKET CONCEPTS
AIAA PAPER-64-523 N64-28926 20-27

SUMMARY REPORT TO CONGRESS ON NASA PROGRAMS - DATA ACQUISITION, MANNED SPACE FLIGHT, NUCLEAR POWER & PROPULSION, SATELLITE APPLICATIONS, TRACKING, AND INTERNATIONAL COOPERATION N64-29539 21-01

DIFFERENTIATION BETWEEN NUCLEAR AND CHEMICAL PROPULSION SYSTEMS IN SPACE VEHICLES
NASA-CR-52961 N64-29782 21-27

ELEMENTARY NUCLEAR PHYSICS CONCEPTS AS APPLIED TO NUCLEAR PROPULSION
NASA-CR-52960 N64-29785 21-23

REACTOR DESIGN FOR AIRCRAFT NUCLEAR PROPULSION
NASA-CR-52957 N64-29788 21-23

TEMPERATURE RATIOS FOR AIRCRAFT NUCLEAR PROPULSION REACTORS AND POSTULATED TEMPERATURES FOR NUCLEAR REACTOR IN ROCKET ENGINE - REACTOR THERMAL DESIGN PROBLEMS
NASA-CR-52956 N64-29789 21-27

ADVANCED PROPULSION CONCEPTS - SYMPOSIUM N64-31601 23-27

GASEOUS CORE REACTORS FOR NUCLEAR POWERED SPACE PROPULSION N64-31613 23-27

CONTROLLED NUCLEAR FUSION FOR SPACE PROPULSION N64-31614 23-27

FUSION PLASMA NUCLEAR PROPULSION SYSTEM N64-31615 23-27

FISSION AND FUSION NUCLEAR POWER FOR INTERSTELLAR TRAVEL N64-31616 23-29

DETONATION WAVE STUDY FOR APPLICATION TO CHEMICAL PROPULSION SYSTEMS, NUCLEAR PROPULSION, AND PULSED PLASMA ACCELERATORS
AD-421130 N64-32873 24-27

SHIELDING AND WEIGHT FRACTIONS OF NUCLEAR PROPULSION SYSTEM FOR MANNED CAPSULES
NASA-CR-52964 N64-33133 24-27

REACTOR CONTROL APPLICABLE TO NUCLEAR SPACECRAFT
NASA-CR-52944 N64-33781 24-27

MATERIALS FOR NUCLEAR PROPULSION SYSTEMS IN SPACE
NASA-CR-52947 N64-33782 24-23

NUCLEAR RADIATION
SA GAMMA RADIATION
NUCLEAR RADIATION EFFECT ON MATERIALS AT CRYOGENIC TEMPERATURES
NASA-CR-52498 N64-10370 01-18

NUCLEAR RADIATION EFFECT ON ORGANIC MATERIALS
N64-10898 02-07

VACUUM ION GAUGE WITH FLUX DETECTOR FOR MEASUREMENT OF NUCLEAR RADIATION DOSE ON ELECTRONIC COMPONENTS
USAERDL-TR-2342 N64-12020 03-13

EFFECTS OF NUCLEAR RADIATION ON ELECTRONIC COMPONENTS AND OPERATING CIRCUITS - MICROWAVE DEVICES
AD-423158 N64-12300 03-23

EFFECT OF HIGH PEAK FLUX AND TRANSIENT NUCLEAR RADIATION ON TRANSDUCERS AND ELECTRICAL CABLE PERFORMANCE
IDO-16914 N64-14076 05-23

AEROSPACE NUCLEAR RADIATION SAFETY
SC-DC-3553 N64-14551 06-01

AEROSPACE NUCLEAR RADIATION SAFETY - CIVILIAN AND MILITARY REACTOR SAFETY N64-14552 06-01

NASA AEROSPACE NUCLEAR RADIATION SAFETY PHILOSOPHY
N64-14555 06-30

AEROSPACE NUCLEAR RADIATION SAFETY PROGRAMS AND PHILOSOPHY N64-14556 06-06

AEROSPACE NUCLEAR RADIATION SAFETY PROGRAM AND PHILOSOPHY N64-14557 06-01

SNAP REACTOR TRANSIENT TESTS FOR NUCLEAR RADIATION SAFETY N64-14559 06-06

AEROSPACE NUCLEAR RADIATION SAFETY GROUND TEST PROGRAM N64-14560 06-06

NUCLEAR RADIATION SAFETY OF ISOTOPIC SNAP GENERATORS N64-14561 06-06

NUCLEAR RADIATION SAFETY OF RIFT VEHICLE LAUNCH & FLIGHT OPERATIONS N64-14563 06-30

FLIGHT OPERATIONAL NUCLEAR RADIATION SYSTEMS FOR NERVA N64-14566 06-23

METEOROLOGICAL STUDIES AS RELATED TO AEROSPACE NUCLEAR RADIATION SAFETY N64-14569 06-21

NUCLEAR RADIATION SAFETY - FALLOUT PREDICTION TECHNIQUES N64-14570 06-21

ENVIRONMENTAL NUCLEAR RADIATION ASPECTS OF ROCKET FLIGHT OPERATIONS N64-14571 06-30

AEROSPACE NUCLEAR RADIATION SAFETY REENTRY FLIGHT TESTS N64-14575 06-30

NUCLEAR RADIATION EFFECT ON MATERIALS AT CRYOGENIC TEMPERATURES
NASA-CR-56004 N64-17684 09-23

FOUR-TUBE PREAMPLIFIER FOR AMPLIFYING PULSE OUTPUT OF FISSION COUNTERS IN HIGH TEMPERATURE AND NUCLEAR RADIATION ENVIRONMENT
PWAC-427 N64-18142 10-09

MEASURED AND CALCULATED NUCLEAR RADIATION DISTRIBUTIONS IN LIQUID HYDROGEN
NASA-CR-54003 N64-18350 10-23

PULSED NUCLEAR RADIATION EFFECTS ON FREQUENCY CONTROL DEVICES
G3988-Q3-3 N64-19269 11-23

EFFECT OF NUCLEAR RADIATION ON SPACE VEHICLE MATERIALS - MATERIAL TESTING
NASA-TM-X-51615 N64-19578 12-18

MEDICINE, BIOLOGY, & AGRICULTURE STUDIES USING RADIOACTIVE ISOTOPES AND NUCLEAR RADIATIONS
AEC-TR-6298 N64-20823 14-16

NUCLEAR RADIATION EFFECTS ON TELEMETRY
RTD-TDR-63-4287 N64-21529 15-08

NUCLEAR RADIATION ENVIRONMENT EFFECTS ON TELEMETRY MODELS
RTD-TDR-63-4287, VOL. 1 N64-21536 15-08

MOLECULAR CHANGES IN POLYAMIDE AND ELASTOMERIC POLYMERS DUE TO NUCLEAR, ULTRAVIOLET, AND THERMAL RADIATION
AD-434216 N64-21593 15-19

PULSED NUCLEAR RADIATION INDUCED TRANSIENTS IN ELECTRONICS PARTS AND MATERIALS
USAELRDL-TR-2299 N64-22899 16-09

EFFECT OF NUCLEAR RADIATION AND CRYOGENIC TEMPERATURES ON STRUCTURAL MATERIALS
AIAA PAPER-64-361 N64-23354 16-23

ACTINOMETRY, ATMOSPHERIC OPTICS, AND NUCLEAR RADIATION METEOROLOGY
NASA-TT-F-150 N64-24786 17-21

NUCLEAR RADIATION HEATING IN LIQUID HYDROGEN
NASA-CR-54078, VOL. 1 N64-25009 17-27

NUCLEAR RADIATION HEATING IN LIQUID HYDROGEN
NASA-CR-54078, VOL. 2 N64-25011 17-13

AUTOMATED FAST COINCIDENCE NUCLEAR RADIATION SPECTROMETER
USNRDL-TR-729 N64-26493 18-15

LUBRICANTS FOR BEARINGS OPERATING IN LIQUID HYDROGEN AND NUCLEAR RADIATION ENVIRONMENT
NASA-CR-56947 N64-27311 19-17

TRANSIENT CHANGE MECHANISMS IN OPERATING CHARACTERISTICS OF ELECTRON TUBES IN NUCLEAR RADIATION PULSE
QTR- 7 N64-27652 19-09

NUCLEAR RADIATION EFFECTS ON CRYSTAL FREQUENCY CONTROL DEVICES
REPT.-6 N64-27855 19-23

NUCLEAR RADIATION EFFECTS ON MATERIALS AT CRYOGENIC TEMPERATURES
NASA-CR-56673 N64-27885 20-18

MECHANICAL RELIABILITY AND THERMOELECTRIC STABILITY OF NOBLE METAL THERMOCOUPLES AT VERY HIGH TEMPERATURES & UNDER INTENSE NUCLEAR RADIATION
SEG-TDR-64-7 N64-29651 21-15

NUCLEAR RADIATION EFFECTS ON CERAMIC-BONDED, RESIN-BONDED, AND METAL-MATRIX-BONDED SOLID FILM LUBRICANTS
NARF-63-11T N64-29801 21-17

NUCLEAR RADIATION EFFECTS ON ELECTRIC, MECHANICAL, AND OPTICAL PROPERTIES OF MERLON POLYCARBONATE
NARF-63-19T N64-29804 21-19

STRESS-STRAIN BEHAVIOR, SHORE-D HARDNESS, AND OXYGEN SORPTION OF POLY/N-VINYL CARBAZOLE/ AS FUNCTION OF NUCLEAR RADIATION ABSORPTION
NARF-63-14T N64-29811 21-19

INFRARED SPECTRA OF PLASTICS AND ELASTOMERS AFTER NUCLEAR IRRADIATION N64-30461 22-19

SPECTROMETRIC ANALYSIS OF NUCLEAR RADIATION
AEC-TR-6439 N64-30636 22-09

CONFERENCE REPORTS ON USING RADIOACTIVE ISOTOPES AND NUCLEAR RADIATION IN MECHANICS, GEOLOGY AND CHEMISTRY
AEC-TR-6390 N64-31024 22-23

PORTABLE NEUTRON GENERATORS IN NUCLEAR GEOPHYSICS - RADIATION DETECTOR, INELASTIC NEUTRON SCATTERING, NUCLEAR RADIATION, AND THERMAL NEUTRONS
FTD-MT-63-283 N64-31776 23-12

PHYSICAL BASES OF PULSE NEUTRON-NEUTRON LOGGING APPLIED TO GEOPHYSICS N64-31787 23-12

RADIOACTIVE ISOTOPES FOR HYDROMETEOROLOGICAL MEASUREMENTS - NUCLEAR RADIATION PROBLEMS

N64-32333 23-21

NUCLEAR RADIATION EFFECTS ON MECHANICAL PROPERTIES OF ACETAL RESINS
NARF-63-18T N64-32579 23-19

ENERGY TRANSFER DURING HIGH ENERGY NUCLEAR RADIATION PULSES
PR-3 N64-32862 24-23

EFFECTS OF NUCLEAR RADIATION COMBINED WITH CRYOGENIC TEMPERATURES ON NONMETALLIC SPACECRAFT MATERIALS
NASA-CR-58830 N64-33043 24-17

SHELTER COOLING - NUCLEAR RADIATION EFFECTS, MAINTENANCE, HEAT SINK, REFRIGERATION, AND DEHUMIDIFICATION
AD-446445 N64-33111 24-13

EFFECTS OF PULSED NUCLEAR RADIATION ON FREQUENCY CONTROL DEVICES
G3988-Q7-7 N64-33571 24-09

NUCLEAR RAMJET
NUCLEAR RAMJET MISSILES - FLIGHT TEST SAFETY
N64-14567 06-27

NUCLEAR REACTION
SA FISSION
SA INELASTIC SCATTERING
SA RESONANCE SCATTERING
SA SPALLING
BERYLLIUM, FLUORINE, AND ALUMINUM NUCLEAR REACTIONS AT 27.5 MEV
URPA-10 N64-10193 01-23

KINETIC ENERGY & MASS DISTRIBUTION FOR NUCLEAR FISSION AT MODERATE EXCITATION ENERGY
UCRL-11006 N64-11305 02-23

NONELASTIC NUCLEON AND PION REACTIONS WITH COMPLEX NUCLEI N64-12541 04-23

NUCLEAR REACTIONS IN HEAVY ISOTOPES OF NICKEL
FTD-MT-63-5/1626364 N64-14827 06-23

RESONANCES IN SCATTERING THEORIES OF NUCLEAR REACTIONS
KFKI-1467 N64-15919 07-20

NUCLEAR SPECTROSCOPY WITH DIRECT REACTIONS - SYMPOSIUM
ANL-6848 N64-17232 09-23

ATOMIC NUCLEUS AND TYPES OF NUCLEAR REACTIONS DETERMINATION USING CHARGED PARTICLE ACCELERATORS
FTD-TT-62-957/162 N64-19190 11-23

NUCLEAR REACTION CROSS SECTIONS OF ISOTOPES OF ALUMINUM, SODIUM, AND CARBON
CERN-64-17 N64-19476 12-23

SEARCH INSTRUMENTS FOR NEUTRONS AND GAMMA RAYS FROM SOLAR SURFACE NUCLEAR REACTIONS
NASA-CR-53828 N64-19617 12-15

NUCLEAR SYNTHESIS REACTION USING COLLIDING BEAMS OF DEUTERONS AND TRITONS
FTD-TT-62-1901/1&2&4 N64-22409 15-24

EFFECTIVE MASS SPECTRA OF TWO-BODY PRODUCTS IN HIGH ENERGY NUCLEAR REACTION
LNF-64/7 N64-23897 16-23

FORTRAN PROGRAM FOR DETERMINING KINEMATICS NOMOGRAM OF PARTICLES IN NUCLEAR TWO-BODY REACTION
ORNL-3636 N64-24605 17-23

NUCLEAR PROCESSES IN CHROMOSPHERIC FLARES
NASA-TT-F-214 N64-24836 17-23

FINAL STATE WAVE FUNCTIONS OF DEUTERON PLUS NEUTRON OR DINEUTRON PLUS PROTON IN NUCLEAR REACTION
RR-TR-64-4 N64-25217 17-23

STATISTICAL FLUCTUATIONS IN CROSS SECTIONS, EXCITATION FUNCTIONS AND ANGULAR DISTRIBUTIONS FOR NUCLEON TRANSFER REACTIONS, AND SPIN-CUTOFF PARAMETERS FROM COMPOUND NUCLEAR REACTIONS
ORNL-3630 N64-25526 17-23

YIELD OF ELASTICALLY SCATTERED NEUTRONS FROM NUCLEAR REACTION CARBON 12 /N,N/ CARBON 12
ORNL-3615 N64-25547 17-23

ANALYSIS OF PION-PION REACTION PRODUCING DEUTERON AND VECTOR MESON - NUCLEAR ELECTROMAGNETIC REACTION
TH-56 N64-26046 18-23

THEORY OF BRANCHING PROCESSES, KOLMOGOROFF THEORY, POPULATION GROWTH, AND CHAIN-TYPE NUCLEAR REACTION
R-381-PR N64-26424 18-23

NEUTRON AND REACTION CROSS SECTIONS, NEUTRON ACTIVATION ANALYSIS OF VARIOUS ELEMENTS, AND CARBON AND NITROGEN SURFACE CONTAMINATION OF BERYLLIUM SAMPLES
ASD-TDR-62-1038, PT. 3, VOL. I N64-27917 20-07

TABLES OF X-COEFFICIENTS AND LAMBDA-FACTORS FOR TRIPLE ANGULAR CORRELATION MEASUREMENTS IN NUCLEAR REACTION STUDIES
NASA-TN-D-2454 N64-28335 20-23

CROSS SECTION DATA FOR HIGH ENERGY NUCLEAR /NUCLEON, 2 NUCLEON/ REACTIONS
NYO-10693 N64-29527 21-23

NUCLEAR SAFETY CONTROL PROGRAMS
NASA-CR-52946 N64-29783 21-27

NUCLEAR REACTIONS ON SOLAR SURFACE - RADIOCHEMICAL STUDIES OF MATERIAL RECOVERED FROM DISCOVERER XVII LAUNCHED DURING SOLAR FLARE N64-30281 22-28

NUCLEAR REACTION PRODUCTS IN SOLAR FLARE REGIONS - GAMMA RAYS AND NEUTRON N64-30301 22-28

RATIO OF TWO ISOMERS OF SCANDIUM 44 PRODUCED BY SCANDIUM 43 /D,T/ SCANDIUM 45 N64-30481 22-23

RATIO OF COBALT 58 ISOMERS PRODUCED IN COBALT 59 /D,T/ COBALT 58 REACTIONS
N64-30482 22-23

BUBBLE CHAMBER INVESTIGATION OF PION-PROTON INTERACTION AT 4 GEV/C N64-30617 22-23

ABSOLUTE CROSS SECTIONS FOR SOME NUCLEAR REACTIONS TO NEUTRON BOMBARDMENT N64-30642 22-25

NUCLEAR REACTION OF LITHIUM 6 UNDER PROTON IRRADIATION TO YIELD HELIUM 3 & ALPHA PARTICLE
N64-30662 22-23

DATA ON TOTAL NEUTRON & REACTION CROSS-SECTIONS AT 14 MEV
ASD-TDR-62-1038, PT. 3, V. II N64-30924 22-23

POLARIZATION OF PROTONS FROM NUCLEAR REACTION BORON-10 /HELIUM 3, PROTON/ CARBON 12
NOLTR-64-113 N64-31102 22-23

NEUTRON PULSE GENERATOR FOR GEOLOGICAL EXPLORATION
N64-31779 23-12

MINIATURE SEALED-OFF PULSE NEUTRON TUBE TO INVESTIGATE PETROLEUM AND GAS WELLS
N64-31783 23-12

MECHANIZATION AND CONTROL OF NUCLEAR REACTOR
NASA-CR-52943 N64-33780 24-23

NUCLEAR REACTOR
S REACTOR

NUCLEAR ROCKET
NUCLEAR ROCKET TESTING FOR SUBORBITAL, ORBITAL, & ESCAPE VELOCITIES - SAFETY, FLIGHT SEQUENCES, & NUCLEAR HAZARD
LMSC-A303791 N64-11887 03-27

MATCHING INTRINSIC NUCLEAR ROCKET CHARACTERISTICS TO MISSION REQUIREMENTS THROUGHOUT FLIGHT PROFILE
LMSC-A304063 N64-13926 05-30

FUEL TANK REQUIREMENTS FOR GASEOUS FUEL NUCLEAR ROCKET
JPL-TR-32-441 N64-15782 07-27

DESIGN STUDY OF COOLED AND UNCOOLED NUCLEAR ROCKET ENGINE NOZZLES
NASA-CR-54000 N64-19479 12-27

NUCLEAR ROCKETS USED FOR ADVANCED PROPULSION SYSTEMS
AIAA PAPER-64-388 N64-23231 16-27

GASEOUS NUCLEAR ROCKET WITH MAGNETOHYDRODYNAMIC VORTEX FUEL CONTAINMENT
REPT.-6 N64-23252 16-27

OPERATIONS PLAN FOR RIFT NUCLEAR ROCKET DEVELOPMENT STATION /NRDS/
NASA-CR-56561 N64-23519 16-27

FLOW AND HEAT TRANSFER PROPERTIES OF BUBBLE STREAM MOTION IN LIQUID CORE NUCLEAR ROCKET
NASA-CR-56229 N64-24160 16-11

RADIATION COOLED NUCLEAR ROCKET NOZZLE FOR LONG FIRING DURATION
AIAA PAPER-64-389 N64-24911 17-27

HEAT TRANSFER AND FLOW DATA OF CRYOGENIC HYDROGEN FOR NUCLEAR ROCKET PROPELLANT FEED AND REACTOR SYSTEMS N64-26019 18-13

CALCULATIONS OF TEMPERATURE DISTRIBUTION & HEAT TRANSFER IN NUCLEAR ROCKET ENGINE
NSP-63-76 N64-26469 18-13

NUCLEAR ROCKET TESTING
NASA-CR-52945 N64-29784 21-27

PARAMETRIC MISSION ANALYSIS FOR PRELIMINARY DESIGN OF HIGH SPECIFIC IMPULSE NUCLEAR ROCKETS
NASA-TN-D-2760 N64-32637 23-29

OPTIMUM STARTING OF NUCLEAR ROCKET TO GIVE FULL POWER WITH PRECISION TIMING AND MINIMUM NOISE
NASA-CR-59209 N64-33120 24-27

SYSTEM DESIGN OF NUCLEAR ROCKET
NASA-CR-52948 N64-33784 24-27

NUCLEAR SPIN
NUCLEAR GYROSCOPE RESEARCH
A22-2 N64-21009 14-25

GYRORESONANT RADIATION AND ABSORPTION IN EQUILIBRIUM MAGNETOACTIVE PLASMA
N64-27156 19-24

ELECTRON COUPLING OF NUCLEAR SPIN - TEMPERATURE DEPENDENCE OF COUPLING CONSTANT IN 2-FLUOROBENZOTRIFLUORIDES
TR-73 N64-33843 24-07

NUCLEAR STRUCTURE
NOMENCLATURE SCHEME FOR HIGH-ENERGY NUCLEAR CROSS SECTIONS N64-12543 04-23

SECONDARY NUCLEON CROSS SECTIONS FOR REACTIONS OF 160-MEV PROTONS WITH NUCLEI - FLIGHT-TIME SPECTRAL DATA N64-12545 04-23

STRUCTURE OF HEAVY NUCLEI - WEAK BRANCHING IN ALPHA DECAY
UCRL-11208 N64-13218 04-23

BOSON APPROXIMATION USED IN EIGENVALUE EQUATIONS FOR NUCLEAR STRUCTURE DETERMINATION
RIFP-33 N64-20623 13-23

NUCLEAR COMPONENT OF COSMIC RAYS - SOVIET SATELLITE AND ROCKET INVESTIGATION
JPRS-25029 N64-21614 15-28

ELEMENTARY PARTICLE AND NUCLEAR STRUCTURE PHYSICS
AD-434279 N64-21807 15-23

BIBLIOGRAPHY ON THEORETICAL PHYSICS AND NUCLEAR STRUCTURE N64-24395 17-23

QUANTUM MECHANICS - SYMPLECTIC SYMMETRY IN F-SHELL NUCLEI
UR-875-43 N64-25827 17-23

NEUTRON ACTIVATION PROPERTIES OF NUCLEAR REACTOR STRUCTURES FOR SPACE FLIGHT
RM-227 N64-25922 18-23

NUCLEAR SPECTROSCOPY - STRUCTURE OF ATOMIC NUCLEI AND NATURE OF BASIC NUCLEAR FORCES
AD-601884 N64-29240 21-23

NUCLEAR SUBMARINE
FEASIBILITY OF OXYGEN PRODUCTION BY ALGAE FOR NUCLEAR SUBMARINES
NRL-5954 N64-10551 01-16

AIR PURIFICATION AND CONTROL ON NUCLEAR POWERED SUBMARINES
NRL-6053 N64-18868 11-16

SYMPOSIUM ON TOXICITY IN NUCLEAR SUBMARINES AND MANNED SPACECRAFT
AD-440942 N64-24606 17-16

ATMOSPHERIC CONTAMINATION IN NUCLEAR SUBMARINES
N64-24607 17-16

CONTAMINATION ANALYSIS OF NUCLEAR SUBMARINE AND MERCURY SPACECRAFT ATMOSPHERES N64-24608 17-16

TOXICITY OF CONTAMINANTS IN NUCLEAR SUBMARINES
N64-24609 17-16

CARBON MONOXIDE CONTAMINANT IN NUCLEAR SUBMARINE ATMOSPHERE N64-24619 17-16

ACTIVATED CARBON SAMPLING OF ORGANIC CONTAMINANTS IN NUCLEAR SUBMARINE ATMOSPHERE
N64-24623 17-15

NUCLEAR WARFARE
THERMAL RADIATION AND FIRE EFFECTS OF NUCLEAR WEAPONS
DASA-1376 N64-12262 03-23

SHOCK OF SURFACE BLAST OF NUCLEAR WEAPON ON UNDERGROUND STRUCTURES N64-12417 04-23

RADIOLOGICAL MONITORING FOLLOWING NUCLEAR ATTACK
AD-432345 N64-19140 11-23

ELECTRICAL RELIABILITY REQUIREMENTS FOR SEALED SWITCHING DEVICES FOR NUCLEAR WEAPONS
N64-19517 12-17

EMERGENCY MEDICAL SERVICE IN SHELTERS IN POST-NUCLEAR ATTACK
OU-107 N64-20811 14-16

INSTRUMENTATION FOR AIRCRAFT PILOT TRAINING IN SPECIAL WEAPON DELIVERY TECHNIQUES
NOTS-TP-3346 N64-26235 18-14

NUCLEATION
CF CONDENSATION
HEAT FLUX MEASUREMENTS IN NUCLEATE BOILING HEAT TRANSFER USING SURFACE THERMOCOUPLES
IS-810 N64-17740 09-13

NUCLEAR BOILING OF WATER AT ATMOSPHERIC PRESSURE AND MEASUREMENT OF SURFACE TEMPERATURE VARIATIONS
EUR-1622.F N64-20881 14-13

KINETICS AND MECHANISMS OF CONDENSATION AND HOMOGENEOUS NUCLEATION FROM VAPOR PHASE
REPT.-5515-F N64-23140 16-23

FORCES ACTING ON BUBBLES IN NUCLEATE BOILING UNDER NORMAL AND REDUCED GRAVITY CONDITIONS
NASA-TN-D-2299 N64-26413 18-23

EFFECT OF NUCLEATION OF SLIP SURFACE ON FLOW AND FRACTURE OF BERYLLIUM
NASA-CR-56314 N64-27393 19-18

REDUCED GRAVITY EFFECT ON NUCLEATE BOILING BUBBLE DYNAMICS IN SATURATED WATER
NASA-RP-320 N64-31210 22-13

LIQUID FILM EVAPORATION DURING NUCLEATE BOILING
NASA-TN-D-1997 N64-33079 24-13

NUCLEATION & CONDENSATION OF WATER
AD-443693 N64-33825 24-11

NUCLEATION PROCESS
ROLES OF SURFACE MICROCONFIGURATION, CONTACT ANGLE, AND HISTORY IN VOID FORMATION IN SUBCOOLED WATER SYSTEMS - NUCLEATION PROCESS
REPT.-9041-26 N64-13236 04-13

NUCLEIC ACID
SA CHROMOSOME
SA NUCLEOSIDE
EFFECT OF SODIUM GALLATE ON NUCLEIC ACID CONTENT OF ORGANS OF HEALTHY AND IRRADIATED RATS
JPRS-19355 N64-11217 02-16

NUCLEIC ACID METABOLISM IN RAT SPLEEN AND BONE MARROW DURING ACUTE RADIATION SICKNESS
N64-12781 04-16

CYTOPHOTOMETRIC METHOD FOR MEASURING HEMOGLOBIN AND NUCLEIC ACID IN ERYTHROCYTE PRECURSORS
N64-15214 07-16

NUCLEIC ACIDS - RIBONUCLEIC AND DESOXYRIBONUCLEIC ACIDS - PHYSICAL & CHEMICAL PROPERTIES AND ROLE IN PROTEIN SYNTHESIS
JPRS-24070 N64-18328 10-16

METACHROMATIC REACTION OF NUCLEIC ACIDS, DNA AND RNA, PRODUCED BY ULTRASONIC RADIATION
JPRS-24353 N64-18978 11-16

BIOPHYSICS OF POLYMERS, NUCLEIC ACIDS, AND BRAIN NEURONS
JPRS-24261 N64-19437 12-16

OPTICAL PROPERTIES AND MOLECULAR STRUCTURE OF NUCLEIC ACIDS AND THEIR PROPERTIES OBSERVED THROUGH DEOXYRIBONUCLEIC ACID N64-19439 12-16

BIOLOGICAL SYNTHESIS OF NUCLEIC ACID CONSTITUENTS
NASA-TM-X-54021 N64-22771 16-16

NUCLEIC ACIDS AND CHLOROPHYLL BIOSYNTHESIS AND ELECTROMYOGRAMS UNDER ACCELERATION STRESSES
FTD-TT-63-1052/1&2 N64-23659 16-16

ROLE OF NUCLEIC ACIDS AND ALBUMIN IN BIOSYNTHESIS OF CHLOROPHYLL N64-23660 16-16

NUCLEIC ACIDS AND VISUAL PERCEPTION STUDIES
JPRS-25824 N64-27062 19-16

TAUTOMER TRANSFORMATIONS OF NUCLEIC ACID COMPONENTS AND ROLE IN MUTAGENESIS
N64-28035 20-16

NONENZYMATIC SYNTHESIS OF NUCLEIC ACID COMPONENTS AND ABIOGENESIS OF NEURINES, PYRIMIDINES, PENTOSRIBOSE AND DEOXYRIBOSE N64-29699 21-16

EFFECTS OF SOUND WAVES AND NUCLEIC ELEMENTS ON CELLS
JPRS-26712 N64-32954 24-16

INFLUENCE OF ULTRASONIC WAVES ON NUCLEIC ACIDS - RIBONUCLEIC ACID N64-32957 24-16

RADIATION EFFECTS ON NUCLEIC ACIDS
JPRS-27239 N64-33875 24-16

NUCLEON
CALCULATED CASCADE AND EVAPORATION REACTIONS FOR HIGH-ENERGY NUCLEONS INCIDENT ON COMPLEX NUCLEI
N64-12540 04-23

NONELASTIC NUCLEON AND PION REACTIONS WITH COMPLEX NUCLEI N64-12541 04-23

CALCULATION OF DOSE IN TISSUE DUE TO NUCLEONS BELOW 400-MEV N64-12542 04-23

SUPERCONDUCTOR PROPERTIES, NEUTRINO TWO-DIMENSIONAL FIELD THEORY MODELS, NUCLEON CALCULATIONS
AROD-280012 N64-13992 05-2

SOLUTION TO MESON-NUCLEON CASCADE EQUATION UNDER SPECIAL CONDITIONS
ORNL-3570 N64-16537 08-2

DIURNAL VARIATION OF NUCLEON AND MESON COMPONENTS DURING COSMIC RAY STORMS
AFCRL-64-403 N64-22301 15-1

STATISTICAL FLUCTUATIONS IN CROSS SECTIONS, EXCITATION FUNCTIONS AND ANGULAR DISTRIBUTIONS FO NUCLEON TRANSFER REACTIONS, AND SPIN-CUTOFF PARAMETERS FROM COMPOUND NUCLEAR REACTIONS
ORNL-3630 N64-25526 17-2

ANTIHYPERON-NUCLEON SCATTERING CROSS SECTION CALCULATIONS
UR-875-28 N64-26686 18-2

ENERGY DEPENDENT PION-NUCLEON PHASE SHIFT ANALYSIS AND COMPARISON OF SOLUTION WITH PION-NUCLEON SCATTERING DATA
UCRL-7846 N64-28699 20-2

NUCLEON TRANSPORT CODE WRITTEN FOR IBM 7090 COMPUTER - CALCULATION OF AVALANCHE BEHAVIOR IN HIGH ENERGY INTERACTIONS OF NUCLEONS USING MONTE CARLO METHOD
ORNL-3610 N64-28786 20-2

CROSS SECTION DATA FOR HIGH ENERGY NUCLEAR /NUCLEON, 2 NUCLEON/ REACTIONS
NYO-10693 N64-29527 21-2

NUCLEOSIDE
SA NUCLEIC ACID
SA RIBONUCLEIC ACID
SA THYMIDINE
CF CARBOHYDRATE
CELLULAR AUTOMATIC CONTROL OF ENZYMATIC TRANSFER OF NUCLEOSIDE SUBSTANCES N64-12510 04-1

NUCLEOTIDE
SA RIBONUCLEIC ACID
INTERPRETATION OF NUCLEOTIDE SEQUENCE IN CONVEYING RIBONUCLEIC ACIDS
JPRS-24086 N64-17976 10-1

EFFECTS OF CORTISONE ON METABOLISM OF RIBONUCLEIC ACID AND ITS NUCLEOTIDES IN RAT LIVER
NASA-TT-F-224 N64-27036 19-1

NUCLEUS
SOLAR PRODUCED HEAVY NUCLEI DETECTED BY EXPLORER VII N64-10167 01-2

OPTICAL MODEL ANALYSIS OF INELASTIC SCATTERING OF NEUTRONS BY HEAVY NUCLEI
BNL-818/T-317/ N64-11643 03-2

PROPERTIES OF SPHERICAL NUCLEI - MAGNETIC DIPOLE MOMENTS, SPIN-DEPENDENT FORCES, AND APPROXIMATION OF STATE EXCITATION
AROD-2890-4 N64-12671 04-2

COLLECTIVE EXCITATION OF UNLIKE PAIR STATES IN HEAVIER NUCLEI
NUP-63-16 N64-12971 04-2

HEAVY MASS YIELDS FROM THERMAL NEUTRON FISSION OF URANIUM-233
USNRDL-TR-679 N64-13309 04-2

FLUX AND ENERGY SPECTRUM MEASUREMENTS OF HYDROGEN, HELIUM, AND HEAVY NUCLEI FROM SOLAR FLARES
NASA-RP-19 N64-14857 06-2

RADIOACTIVE DECAY OF NUCLEI BY FISSION AND EMISSION OF PROTONS
JPRS-23996 N64-18139 10-2

INTENSITIES OF HEAVY NUCLEI IN PRIMARY COSMIC RADIATION
CR-70 N64-18642 11-2

ISOTOPIC COMPOSITION AND ENERGY SPECTRUM OF LOW ENERGY HELIUM NUCLEI IN PRIMARY COSMIC RADIATION
URPA-31 N64-23173 16-2

MAGNETIC SYMMETRY AND ELECTRON-NUCLEUS INTERACTIONS IN MAGNETIC CRYSTALS
TN-1 N64-30051 21-25

EFFECT OF SECOND CLASS AXIAL CURRENT ON RADIATIVE MUON ABSORPTION BY NUCLEI
LNF-64/27 N64-32001 23-23

RELATION BETWEEN NUCLEAR ELEMENTS AND CYTOPLASM - BIOLOGICAL CELL N64-32956 24-16

ELECTROPHYSIOLOGICAL STUDY OF VESTIBULAR APPARATUS MECHANISMS AND INTERCONNECTIONS BETWEEN CANALS AND NUCLEI IN MEDULLA OBLONGATA OF CATS
NASA-TT-F-9147 N64-33408 24-16

NUCLIDE
SA RADIOACTIVE NUCLIDE
DEGREE OF FRACTIONATION AND RADIONUCLIDE PARTITION FOR NUCLEAR DEBRIS
USNRDL-TR-680 N64-12257 03-23

RADIOCHEMICAL METHODS FOR NUCLIDE DETERMINATIONS - METAL SEPARATION
IDO-14613 N64-16571 08-23

RADIO PROPAGATION IN TRADE WIND INVERSION DUCT-NEPTUNE PROJECT
CRL-272-2 N64-21988 15-08

COMPARISON OF NUCLIDIC MASS EQUATIONS WITH EXPERIMENTAL DATA
ANL-6814 N64-22044 15-23

SEMIEMPIRICAL EQUATION TO DESCRIBE MASS SYSTEMATICS OF ATOMIC NUCLIDES - NUCLIDIC MASS EQUATION
ANL-6886 N64-29773 21-23

NUCLEAR MODEL TO EXPLAIN ENERGY LEVELS OF NUCLIDE IRON 57
USNRDL-TR-742 N64-29854 21-23

NULL HYPOTHESIS
CF STATISTICS
CALIBRATION OF INFRASONIC HYDROPHONES BY NULL METHOD
JPRS-18422 N64-10765 02-23

BIASED SAMPLING TEST BY HYPERGEOMETRIC PROBABILITY DISTRIBUTION - NULL HYPOTHESIS
TR-70 N64-13983 05-20

MODIFICATION AND COMPARISON OF SEQUENTIAL TEST OF FIT - EXPECTED SAMPLE SIZE UNDER ALTERNATIVES TO NULL HYPOTHESIS
MRC-486 N64-31959 23-20

NULL ZONE
DIAGRAM AND ANALYSIS OF CIRCUIT TO COMPENSATE AUTOMATICALLY FOR NULL DRIFT IN ELECTROMETER AMPLIFIERS
FTD-MT-63-47/162 N64-18754 11-09

NUMBER
S PRANDTL NUMBER
S QUANTUM NUMBER
S RAYLEIGH NUMBER
S REYNOLDS NUMBER

NUMBER THEORY
SWITCHING CIRCUIT TEST DESIGN AND APPLICATION OF NUMBER THEORY TO CIRCUIT TRANSFORMING SEQUENCES
JPRS-17504 N64-10477 01-09

SIEVE AND PRIME PROBLEMS IN NUMBER THEORY FOR COMPUTER PROGRAMMING APPLICATION
NASA-CR-55161 N64-13190 04-20

STRONG AND WEAK REDUCIBILITY OF ALGORITHMIC PROBLEMS OF ALGEBRAIC, NUMBER THEORY, TOPOLOGY, AND MATHEMATICAL LOGIC SOLVABILITY.
JPRS-23760 N64-17246 09-20

PROBABILITY NUMBER THEORY
JPRS-25099 N64-23254 16-20

BINARY NUMBER REPRESENTATIONS FOR DIGITAL COMPUTER
EF-3765-3 N64-30892 22-20

TABLES OF BINARY DECOMPOSITIONS OF EVEN NUMBERS INTO PRIME AND LUCKY NUMBERS - BINARY ADDITIVE NUMBER THEORY
LA-3106, VOL. 1 N64-32863 24-20

BINARY DECOMPOSITION OF EVEN NUMBERS FOR STATISTICAL APPLICATION
LA-3106, VOL. II N64-33591 24-20

NUMERICAL ANALYSIS
METEOROLOGICAL SATELLITE & NUMERICAL WEATHER PREDICTION BY INTEGRATION OF FINITE DIFFERENCE ANALOGS OF ATMOSPHERE EQUATIONS OF STATE
N64-10931 02-21

NUMERICAL ANALYSIS OF INTERACTION BETWEEN STIFF EQUATION AND SEVERAL INTEGRATION PROCEDURES
SSD-TDR-63-380 N64-17313 09-20

CENTRAL DIFFERENCE NUMERICAL DIFFERENTIATION FORMULA DERIVED FOR MINIVAR N64-18234 10-20

SUMS OF POWERS OF COMPLEX NUMBERS - ESTIMATE WITH APPLICATION TO NUMERICAL ANALYSIS OF ALGEBRAIC EQUATIONS
MRC-428 N64-18269 10-20

NUMERICAL INTEGRATION
SA RUNGE-KUTTA INTEGRATION
NUMERICAL RESOLUTION OF INTEGRAL TRANSFER EQUATION /MILNES PROBLEM/ IN NONNEUTRON-ABSORBING MEDIUM
EUR-371.I N64-10036 01-20

SOLUTION TO N-BODY SPACE MECHANICS PROBLEMS VIA NUMERICAL INTEGRATION - IBM 7090 - FORTRAN PROGRAM
NASA-TN-D-1730 N64-10174 01-20

NUMERICAL SOLUTION OF INTEGRAL TRANSFER EQUATIONS AND DETERMINATION OF MINIMUM EIGENVALUE
EUR-372.I N64-10982 02-20

DIRECT NUMERICAL INTEGRATION OF SYSTEM OF LINEAR SECOND-ORDER ORDINARY DIFFERENTIAL EQUATIONS
GD/A-63-1021 N64-14549 06-20

GENERAL METHOD FOR NUMERICAL INTEGRATION THROUGH SADDLE POINT SINGULARITY WITH APPLICATION TO ONE-DIMENSIONAL NONEQUILIBRIUM NOZZLE FLOW
AEDC-TDR-64-29 N64-14685 06-20

NUMERICAL INTEGRATION OF COUPLED FIRST ORDER DIFFERENTIAL EQUATIONS WITH VARIED TIME CONSTANTS
NASA-CR-55550 N64-16108 07-20

NUMERICAL INTEGRATION OF DIFFERENTIAL EQUATIONS
RSIC-104 N64-17636 09-20

NUMERICAL INTEGRATION METHOD FOR APPROXIMATE EVALUATION OF INTEGRALS FOR WHICH ERROR BOUNDS ARE OBTAINED AUTOMATICALLY AS RESULT OF COMPUTATIONS
MRC-461 N64-18018 10-20

NUMERICAL INTEGRATION OF INTEGRAL EQUATION IN MIXED-BOUNDARY ELASTICITY PROBLEM - STRESS FIELD IN CYLINDER WITH PENNY-SHAPED CRACK
AD-437920 N64-20305 13-20

NUMERICAL INTEGRATION OF THEODORSEN TRANSFORMATION BY COMPUTER PROGRAM
ARC-CP-691 N64-25169 17-20

NUMERICAL INTEGRATED MODEL OF ATOM DERIVED FROM THOMAS-FERMI DIFFERENTIAL EQUATION
P-2783 N64-25648 17-23

NUMERICAL INTEGRATION TRUNCATION ERRORS IN PARTICLE-IN-CELL TECHNIQUE FOR SOLUTION OF ONE-DIMENSIONAL FLOW PROBLEM
RM-3613-PR N64-26263 18-11

RUNGE-KUTTA TYPE PROCEDURES FOR NUMERICAL INTEGRATION OF FIRST ORDER DIFFERENTIAL EQUATION
RSIC-243 N64-30968 22-20

NUMERICAL INTEGRATION TECHNIQUES FOR BAROCLINIC WEATHER FORCASTING
AFCRL-64-600 N64-31834 23-21

RUNGE-KUTTA METHOD FOR CONSTRUCTING ACCURACY ORDER

FOR NUMERICAL INTEGRATION OF DIFFERENTIAL EQUATIONS
RSIC-249 N64-32534 23-20

NUTRITION
SA DIET
SA FOOD
PROBLEMS OF NUTRITION AND FEEDING FOR MANNED SPACE FLIGHT N64-10264 01-16

ALGAE FOR HUMAN NUTRITION AND CALCIUM & PHOSPHORUS USED TO REDUCE STRONTIUM-90 CONTENT OF RAT SKELETON
JPRS-22295 N64-12442 04-16

LITERATURE SURVEY - USE OF UNICELLULAR ALGAE FOR HUMAN NUTRITION N64-12443 04-16

NUTRIENT REQUIREMENTS, PROTEIN CONTENT, AND ABILITY TO FIX CARBON DIOXIDE OF PLANT TISSUE CULTURES
AMRL-TDR-63-124 N64-17864 10-16

PROPERTIES AND CHARACTERIZATION OF MICROORGANISMS BY NUTRITIONAL REQUIREMENTS
NASA-CR-50397 N64-22768 16-16

NUTRIENT MEDIA FOR CULTIVATION OF CHLORELLA PYRENOIDOSA N64-23777 16-16

PHOTOSYNTHESIS OF HIGHER PLANTS AND MINERAL NUTRITION N64-23782 16-16

HIGHLY NUTRITIOUS FOOD DEVELOPED FOR SPACE FLIGHT
AMRL-TDR-64-38 N64-29939 21-16

NUTRITIONAL REQUIREMENTS
S DIET

NUTS AND BOLTS
HIGH TEMPERATURE TEST OF CHROMIUM-TITANIUM COATED COLUMBIUM ALLOY BOLT AND NUT
A474 N64-16787 08-18

METALWORKING - FASTENERS, BOLTS, & RIVETS FROM HEAT RESISTANT STEELS N64-17086 09-17

NYLON
CF POLYAMIDE
CF SYNTHETIC FIBER
STATIC AND VIBRATIONAL TENSILE PROPERTIES OF NYLON AND MYLAR ROPE
FTDM-3159 N64-16638 08-19

EFFECT OF WEIGHT, DENSITY, AND HEAT LOAD ON PERFORMANCE OF HEAT SHIELD OF PHENOLIC RESIN AND NYLON POWDER
NASA-TN-D-2196 N64-22021 15-19

COTTON, NYLON & KNITTED FABRIC WITH ELASTIC STRETCH CHARACTERISTICS
SEG-TDR-64-6 N64-23983 16-19

BIAXIAL STRESS AND STRAIN DATA FOR TEN STRESS RATIOS OF POLYAMIDE NYLON
RR-TR-64-11 N64-29303 21-19

NYSTAGMUS
SA EYE MOVEMENT
ANNOTATED BIBLIOGRAPHY OF TRANSLATIONS OF FOREIGN LANGUAGE ARTICLES ON NYSTAGMUS, VESTIBULAR STIMULATION, & CORIOLIS EFFECTS N64-10432 01-14

NYSTAGMUS RESPONSES OF CATS TO ROTATION AND DIRECTIONAL STIMULI AFTER CALORIC HABITUATION OF ONE EAR - VESTIBULAR EFFECT
CARI-63-14 N64-11949 03-16

PRIMARY, SECONDARY, AND CALORIC NYSTAGMUS OF CATS FOLLOWING HABITUATION TO ROTATION
CARI-63-13 N64-14544 06-16

EVALUATION OF POSITIONAL ALCOHOL NYSTAGMUS AS INDICATOR OF OTOLITH FUNCTION
NASA-CR-55619 N64-15350 07-16

INSTRUMENTATION TO MEASURE NYSTAGMUS PRODUCED BY ANGULAR ACCELERATION
NASA-CR-55617 N64-15352 07-16

FREQUENCY RESPONSE OF HUMAN SEMICIRCULAR CANALS TO ANGULAR ACCELERATION USING NYSTAGMUS TRANSITION TECHNIQUE
NASA-CR-55624 N64-15540 07-16

REDUCTION OF NYSTAGMUS, DISORIENTATION, AND NAUSEA IN HUMAN SUBJECTS
NASA-CR-55756 N64-16330 08-14

CONTINUOUS ROTATION EXPOSURE EFFECTS ON NYSTAGMUS PHASE SHIFT
NASA-CR-53618 N64-18421 10-16

HUMAN PERFORMANCE - NYSTAGMUS FLUCTUATION DURING ADAPTATION TO LIVING IN ROTATING ROOM N64-22433 15-14

VISUAL CONTROL OF ACCLIMATIZATION TO COMPLEX VESTIBULAR STIMULATION IN MAN
NASA-CR-56896 N64-27889 20-14

EFFECT OF REPEATED MILD ANGULAR ACCELERATIONS IN TOTAL DARKNESS ON HUMAN VESTIBULAR NYSTAGMUS WHILE SUBJECTS PERFORM ATTENTION-DEMANDING TASKS
CARI-63-29 N64-29847 21-14

PHYSIOLOGICAL STUDIES - BIOLOGICAL CYBERNETICS, FLOATING RECORDING DEVICE FOR DIGESTIVE SYSTEM, AND NYSTAGMUS RECORDING INSTRUMENTATION
FTD-TT-64-386/162 N64-31074 22-16

ORIENTATION OF ROTATION AXIS RELATIVE TO GRAVITY - INFLUENCE ON NYSTAGMUS AND SENSE OF ROTATION
NASA-CR-59286 N64-33331 24-16

O

O STAR
EVOLUTION OF O STARS - HYDROGEN EXHAUSTION AND GRAVITATIONAL CONTRACTION
NASA-RP-352 N64-33989 24-29

OAO
DEVICE FOR MEASURING TOTAL HEMISPHERICAL EMITTANCE OF MATERIALS FOR ORBITING ASTRONOMICAL OBSERVATORY SATELLITE THERMAL CONTROL SURFACE N64-10950 02-15

GROUND OPERATION EQUIPMENT CONTROLLING ORBITING ASTRONOMICAL OBSERVATORY
NASA-TN-D-1856 N64-11622 03-10

MOMENTUM CONTROL OF ORBITING ASTRONOMICAL OBSERVATORY USING GEOMAGNETIC FIELD
IAC PAPER-32 N64-11892 03-22

ORBITING ASTRONOMICAL OBSERVATORY IMAGE CONVERTERS
NASA-CR-55425 N64-14840 06-15

OBLATENESS
OBLATE SPHEROIDAL METHOD FOR SATELLITE ORBITS - GRAVITATIONAL POTENTIAL & PERTURBING POTENTIAL N64-10304 01-12

REJECTION OF STRESS DIFFERENCES AS CAUSE OF EARTH FLATTENING
NASA RP-88 N64-11378 02-12

COMPUTING SATELLITE POSITION IN LOW-INCLINATION, LOW-ECCENTRICITY ORBITS INCLUDING OBLATE-EARTH CAUSED PERTURBATIONS
ESD-TDR-63-443 N64-31966 23-29

APPLICATION OF VON ZEIPEL METHOD TO SATELLITE ORBITING UNDER GRAVITATIONAL FIELD INFLUENCE AND PERTURBATIONS DUE TO EARTH OBLATENESS
NASA-TM-X-55095 N64-33625 24-23

OBLIQUE COORDINATE
THEORY OF PLANE ELASTICITY WITH REFERENCE TO SOME OBLIQUE COORDINATES N64-28522 20-33

OBSERVATION
S CELESTIAL OBSERVATION
S SATELLITE OBSERVATION

OBSERVATORY
SA ASTRONOMICAL OBSERVATORY
POLARIMETRIC AND COLORIMETRIC STAR, COMET, AND GALAXY OBSERVATIONS OF THE BYURAKAN OBSERVATORY
N64-10026 01-05

OBSERVATIONS OF MINOR PLANETS, COMETS, ECLIPSING BINARY STARS, AND DOUBLE STARS - ORBIT MEASUREMENT
N64-10321 01-05

PULSE CODE MODULATION TELEMETRY DATA PROCESSING FOR ECCENTRIC ORBITING GEOPHYSICAL OBSERVATORY
NASA-TM-X-51259 N64-11812 03-08

LUNAR LOGISTIC SCIENTIFIC FACILITY FOR APOLLO PROJECT MISSIONS N64-13136 04-29

LUNAR ASTRONOMICAL EXPERIMENTS N64-13703 05-29

ORBITING OBSERVATORIES FOR SPACE EXPLORATION
JPRS-22972 N64-14254 06-29

PERFORMANCE OF TELESCOPES, REMOTELY CONTROLLED TELESCOPE SYSTEM /RCTS/, SOLAR FLARE STUDIES AND CONSTRUCTION OF NEW OBSERVATORY FACILITIES
N64-19047 11-10

MAGNETIC OBSERVATORIES FOR USE DURING INTERNATIONAL QUIET SUN YEAR /IQSY/
NASA-TM-X-55017 N64-27257 19-12

OBSERVATORY DATA ON MARS ATMOSPHERE AND SURFACE
T-R-426 N64-29597 21-05

LIMITATION OF OBSERVATORY MAGNITUDE CORRECTION OF SEISMOGRAPHS FOR DISTANT EARTHQUAKES
N64-30383 22-12

LUNAR GEOLOGY AND ASTRONOMY, AND ASTRONOMICAL OBSERVATIONS POSSIBLE FROM FUTURE LUNAR OBSERVATORY
JPRS-26460 N64-30455 22-05

OCCULTATION
OCCULTATION OF CRAB NEBULA BY SOLAR CORONA
AD-428675 N64-19920 12-05

GALACTIC RADIATION AND OCCULTATIONS OF RADIO STARS
PR-1 N64-28089 20-05

OCEAN
MAGNETIC ANOMALIES IN TRANSITION REGION FROM ASIA TO PACIFIC OCEAN
JPRS-21715 N64-10268 01-12

WINDS AND SURFACE CURRENTS IN COASTAL CHINA WATERS
JPRS-20031 N64-10460 01-21

ATLANTIC OCEAN - WINTER HEAT SOURCE FOR EUROPE AND EFFECT ON SECONDARY MAGNETIC FIELD
JPRS-19896 N64-10660 01-12

TECHNIQUE FOR DETECTING OCEAN STATE FROM SATELLITE VIA MICROWAVE RADIOMETRY N64-10920 02-21

RELATION BETWEEN HEAT EXCHANGE AND MOISTURE AT OCEAN-ATMOSPHERE INTERFACE - DEVELOPMENT OF CYCLONES IN NORTH ATLANTIC OCEAN
N64-11602 03-21

VARIATIONS IN VERTICAL COMPONENT OF GEOMAGNETIC FIELD IN ARCTIC OCEAN N64-11661 03-12

GEOPHYSICAL STRUCTURE OF EARTH CRUST IN TRANSITION ZONE FROM ANTARCTIC CONTINENT TO INDIAN OCEAN
JPRS-22888 N64-13948 05-12

TIROS OBSERVATIONS OF SUMMER CIRCULATION AND WEATHER PATTERNS OF THE EASTERN NORTH PACIFIC
MIG-40 N64-14137 05-21

PROBLEM OF SHIP MOVING WITH UNIFORM VELOCITY OVER SEMI-INFINITE OCEAN AT REST AT INFINITY
RE-169 N64-14795 06-06

DYNAMIC CHARACTERISTICS OF SUB-POLAR FRONT IN NORTH ATLANTIC
JPRS-23109 N64-15050 07-17

BIOLOGY AND STRATIGRAPHY OF BOTTOM SEDIMENTS IN EQUATORIAL PACIFIC
JPRS-23403 N64-15730 07-16

HYDROPHONES TO DETECT SEISMIC ENERGY ON OCEAN BOTTOM
SCI. REPT. 25 N64-17462 09-12

EVAPORATION AND SENSIBLE HEAT FLUX OVER ARCTIC OCEAN - ENERGY TRANSFER FROM SURFACE TO ATMOSPHERE
AFCRL-64-272 N64-20164 13-21

OCEANOGRAPHY & HYDROLOGY - THERMAL REGIME AND TEMPERATURE OF NORTHEASTERN PACIFIC OCEAN
JPRS-24609 N64-20234 13-12

MEASURING NATURAL ELECTRICAL FIELD AT SEA
JPRS-24989 N64-21613 15-12

INTENSITY OF DEEP TURBULENT EXCHANGE IN ATLANTIC OCEAN
JPRS-24788 N64-21720 15-12

RADIOACTIVE RESEARCH ON OCEAN WATERS
JPRS-25068 N64-23321 16-12

RADIOACTIVE CHEMICALS IN OCEAN WATER
N64-23323 16-12

EARTH ROTATION EFFECT ON RELATIVE MOTIONS IN ATMOSPHERE AND OCEANS N64-24682 17-21

POSITION DATA ACQUISITION TECHNIQUES FOR OVER-OCEAN AIR TRAFFIC CONTROL
REPT.-5088-12-F N64-25084 17-22

ERRORS IN USE OF AIRBORNE INFRARED RADIATION THERMOMETER FOR OCEAN SURFACE TEMPERATURE MEASUREMENT
AD-601473 N64-27622 19-15

OPEN OCEAN TEST OF SEAPLANE STABILIZED WITH VERTICAL FLOATS
GD/C-64-197 N64-27849 19-04

DISTRIBUTION AND BIOLOGICAL EFFECTS OF RADIOACTIVE CONTAMINATION OF SEAS AND OCEANS
JPRS-26002 N64-31188 22-12

CLOUD PATTERNS, CLOUD DISTRIBUTION, AND VORTICES OVER ATLANTIC OCEAN SHOWN BY PHOTOGRAPHS FROM TIROS SATELLITES
ARA-F-9252-2 N64-32815 24-21

CYCLONES OF SOUTHWESTERN INDIAN OCEAN
N64-33517 24-21

OCEANOGRAPHY
PHOTOTELEGRAPHIC APPARATUS FOR WEATHER MAP RECEPTION, AND OCEAN BOTTOM RELIEF RECORDING USING FATHOMETER
JPRS-17712 N64-10486 01-21

MARINE GEOPHYSICAL EXPLORATION - APPARATUS, METHODS, & TECHNIQUES OF OBSERVATION
JPRS-17791 N64-10634 01-12

STRATOSPHERE INVESTIGATION BY METEOROLOGICAL ROCKETS - AIR TEMPERATURE MEASUREMENT, OCEANOGRAPHY, & HYDROMETEOROLOGY
JPRS-18306 N64-10754 02-21

ATMOSPHERIC SCIENCES - RELATION OF METEOROLOGY, HYDROLOGY & OCEANOGRAPHY, HIGH ATMOSPHERE & ATMOSPHERIC CHEMISTRY STUDY, & WEATHER PREDICTION
NAS-NRC-PUBL.-1085 N64-12109 03-21

UNDERWATER INVESTIGATIONS - SUBMARINE OCEANOGRAPHY
JPRS-23001 N64-14162 05-12

PHYSICS & CHEMISTRY OF OCEAN, MARINE BIOLOGY & GEOLOGY, COASTAL OCEANOGRAPHY, AND OCEANOLOGICAL RESEARCH
JPRS-23025 N64-14524 06-12

METEOROLOGY AND OCEANOGRAPHY - SOLAR ACTIVITY EFFECTS ON TROPOSPHERIC REACTION - ICE STUDIES
JPRS-23074 N64-14532 06-21

INTERNATIONAL QUIET SUN YEAR /IQSY/ AND CLOUD YEAR PROGRAM PREPARATION & OCEANOGRAPHY - CONFERENCE RESULTS N64-16454 08-12

SATELLITE TELEMETRY OF OCEANOGRAPHIC OBSERVATIONS N64-16942 09-08

OCEANOGRAPHY & HYDROLOGY - THERMAL REGIME AND TEMPERATURE OF NORTHEASTERN PACIFIC OCEAN
JPRS-24609 N64-20234 13-12

OCEANOGRAPHIC FACTORS - THERMAL STRUCTURE OF UPPER SEA LAYERS BY THERMISTOR CHAIN
NEL-1210 N64-21809 15-12

DEPTH REGULATION OF LOWERED OCEANOGRAPHIC EQUIPMENT
NEL-1215 N64-22959 16-22

OCEANIC FORECASTING AND ANALYSIS
REPT.-17747 N64-30139 21-21

HYDROMETEOROLOGICAL STATIONS FOR OCEANOGRAPHIC SYNOPTIC SURVEYS
JPRS-26999 N64-33958 24-12

OCULAR CIRCULATION
S EYE

OCULAR CONVERGENCE
EFFECTS OF ALCOHOL AND HYPOXIA ON HETEROPHORIAS - REVIEW OF EXPERIMENTAL STUDIES
AD-433129 N64-17924 10-16

OGEE WING
LONGITUDINAL CHARACTERISTICS AT SUPERSONIC SPEEDS OF PLANE AND CAMBERED OGEE WINGS
ARC-R&M-3328 N64-13377 04-03

LIFT AND PITCHING MOMENT ON FOUR OGEE WINGS AT SUPERSONIC SPEED
ARC-CP-673 N64-24926 17-03

METHOD OF TEST AND RESULTS FOR PITCH AND YAW ON CAMBERED OGEE WING AT SUPERSONIC SPEEDS
ARC-R&M-3355 N64-25495 17-03

OGIVE
CF BODY OF REVOLUTION
CF ELLIPSOID
BOUNDARY-LAYER VELOCITY PROFILES AND SKIN FRICTION OF OGIVE CYLINDER AT SUPERSONIC SPEED - SURFACE ROUGHNESS EFFECT
NASA-TN-D-2048 N64-11555 03-11

BASE DRAG CHARACTERISTICS OF OGIVE-CYLINDER MISSILE MODEL WITH BASE NOZZLE FLOW
AEDC-TDR-64-87 N64-20838 14-02

HYPERSONIC STATIC AND DYNAMIC STABILITY OF OGIVE AND OGIVE-CYLINDER FUSELAGES, AND OF RECTANGULAR AND DELTA WINGS
C910188-12 N64-33296 24-02

OGO
TEST PROGRAMS & SUPPORT SYSTEMS FOR ORBITING GEOPHYSICAL OBSERVATORY
AIAA PAPER-63-065 N64-10077 01-12

ATTITUDE CONTROL SYSTEM FOR ORBITING GEOPHYSICAL OBSERVATORY
IAC PAPER-31 N64-11893 03-32

ORBITING GEOPHYSICAL OBSERVATORY PROGRAM
NASA-RP-130 N64-15554 07-32

ANALYTICAL DETERMINATION OF EARTH VISIBILITY FROM ORBITING SATELLITE - OGO & POGO
NASA-TM-X-55002 N64-23517 16-12

OGO-A
ORBITING GEOPHYSICAL OBSERVATORY /OGO-A/ SATELLITE
NASA RELEASE-64-213 N64-29334 21-32

OGO-C
PROGRAMMER MANUAL FOR POLAR ORBITING GEOPHYSICAL OBSERVATORY
IS-769 N64-13388 04-20

OIL
SA PETROLEUM
CF FUEL
CF HYDRAULIC FLUID
CF LUBRICANT
DETERMINATION OF ANTIOXIDANT EFFECTIVENESS OF MOTOR OIL ADDITIVES
FTD-TT-62-1324/1&2&4 N64-10249 01-17

OIL ADDITIVES AS CORROSION INHIBITORS FOR INSIDE SURFACE PROTECTION OF OIL TANKS
JPRS-17719 N64-10631 01-07

LITERATURE SURVEY & BIBLIOGRAPHY OF HIGH VOLTAGE BREAKDOWN IN VACUUM AND IN OIL - APPLICATION TO HIGH POWER VACUUM TUBES
BMI-197-12-1 N64-13602 05-19

ATOMIC ABSORPTION SPECTROMETRY & NEUTRON ACTIVATION ANALYSIS OF OILS
TRECON-TR-63-55 N64-14170 05-06

OIL SEALS FOR RECIPROCATING ENGINE - FRICTION MEASUREMENTS N64-19021 11-17

PETROLEUM - OIL-SHALE TECHNOLOGY
BM-IC-8216 N64-22105 15-12

UTILIZATION AND PROPERTIES OF DIESEL OILS WITH ADDITIVES
FTD-63-675/1&2 N64-22353 15-17

HYDROPURIFICATION OF REFINED DIESEL OIL WITH ALUMINUM-NIOBIUM-MOLYBDENUM CATALYST
FTD-TT-62-1735/1&2&4 N64-22632 15-07

STOCHASTIC MATRIX STORAGE & PROCESSING USING THERMOPLASTIC & OIL FILM TECHNIQUES
AFCRL-64-294 N64-30568 22-23

SYNTHESIS OF POLYETHER URETHANE ELASTOMERS & THEIR OIL RESISTANCE AND LOW TEMPERATURE FLEXIBILITY
AD-421811 N64-31249 22-19

OLEFIN
ALKYLATION OF METHYLCYCLOHEXANE WITH OLEFINS AT HIGH TEMPERATURE AND PRESSURE N64-11157 02-07

ALKYLATING TETRAHYDRONAPHTHALENE IN THE ALIPHATIC RING BY OLEFINS N64-11158 02-07

DYNAMIC BIREFRINGENCE OF STRUCTURAL CHANGES AND MECHANICAL PROPERTIES OF UNSATURATED POLYOLEFIN HYDROCARBONS
ONR-TR-65 N64-16437 08-23

ADDITION REACTIONS TO DOUBLE BOND OF STERICALLY HINDERED ALPHA-OLEFINS
RTD-TDR-63-4107 N64-20359 13-07

PHOTOLYSIS OF NITRIC OXIDE IN PRESENCE OF OLEFINS
SSD-TDR-64-82 N64-22283 15-07

ADDITION OF FLUORO-OLEFINS TO SN-H BONDS OF ORGANOTIN HYDRIDE N64-29174 21-07

OLIVINE
SA FORSTERITE
HYDROTHERMAL SYNTHESIS OF OLIVINE-TYPE SILICATES
ERR-FW-221 N64-16630 08-12

PRODUCTION CROSS SECTIONS OF TRITIUM AND RARE GASES IN OLIVINE AND STONY METEORITES
CERN-64-12 N64-18145 10-23

IRON, MAGNESIUM & CALCIUM DISTRIBUTION IN OLIVINES & RHOMBIC PYROXENES OF CHONDRITES
NASA-TM-X-54037 N64-26593 18-05

IRON, MAGNESIUM, AND CALCIUM DISTRIBUTION IN OLIVINES AND RHOMBIC PYROXENES OF CHONDRITES
NASA-RP-341 N64-31218 22-12

OMNIDIRECTIONAL ANTENNA
ANTENNAS WITH OMNIDIRECTIONAL COVERAGE FOR SPACE VEHICLE APPLICATION - MANY RADIATORS AROUND CIRCUMFERENCE OF VEHICLE - RADIATION PATTERNS
NASA-CR-55191 N64-13336 04-30

DUAL-SIDEBAND DOPPLER VERY HIGH FREQUENCY OMNIDIRECTIONAL RANGE TRANSMITTER AND DISTRIBUTOR
CER-1669A N64-17229 09-08

ONBOARD NAVIGATION
COMPUTER PROGRAM FOR SIMULATION OF ONBOARD DATA PROCESSOR FOR TRACK-WHILE-SCAN NAVIGATION CONCEPT
NASA-CR-53513 N64-20006 13-20

ONE-DIMENSIONAL FLOW
GENERAL METHOD FOR NUMERICAL INTEGRATION THROUGH SADDLE POINT SINGULARITY WITH APPLICATION TO ONE-DIMENSIONAL NONEQUILIBRIUM NOZZLE FLOW
AEDC-TDR-64-29 N64-14665 06-20

ONE DIMENSIONAL, CHEMICALLY REACTING FLOWS WITH MOLECULAR VIBRATIONAL RELAXATION
GASL-TR-426 N64-24983 17-11

NUMERICAL INTEGRATION TRUNCATION ERRORS IN PARTICLE-IN-CELL TECHNIQUE FOR SOLUTION OF ONE-DIMENSIONAL FLOW PROBLEM
RM-3613-PR N64-26263 18-11

INFLUENCE OF RADIANT ENERGY TRANSFER ON ONE DIMENSIONAL SHOCK WAVE PROPAGATION
N64-26336 18-13

UNIDIMENSIONAL THEORY OF SUPERSONIC COMBUSTION
AFOSR-5260 N64-26739 18-26

GROUP CLASSIFICATION OF EQUATIONS DESCRIBING ONE-DIMENSIONAL GAS FLOWS
NASA-TT-F-8921 N64-26751 18-11

ONE-DIMENSIONAL UNSTEADY MAGNETOGASDYNAMIC FLOW
SR-9 N64-31316 22-24

ONE-DIMENSIONAL UNSTEADY POTENTIAL FLOW IN MAGNETOGASDYNAMICS N64-32341 23-24

OPACITY
HEATED CAVITY REFLECTOMETER FOR THERMAL REFLECTANCE MEASUREMENTS OF OPAQUE SURFACE
N64-10947 02-13

HEMISPHERIC SPECTRAL REFLECTANCE OF OPAQUE SOLIDS
N64-10948 02-13

SPECTRAL EMITTANCE OF OPAQUE AND TRANSPARENT MATERIALS FROM 40- TO 200-DEG C
N64-10952 02-13

TOTAL NORMAL EMITTANCE MEASUREMENT TECHNIQUE FOR OPAQUE SOLID MATERIALS OVER 1000- TO 3000-DEG F RANGE N64-10964 02-13

OPACITY CALCULATION OF ENERGY LEVELS, WAVE FUNCTIONS, ELECTRONIC OCCUPATION, TRANSITIONS, AND MOLECULAR SCATTERING
LAMS-3002 N64-14056 05-23

MOLECULAR HYDROGEN ION ABSORPTION AS SOURCE OF CONTINUOUS OPACITY IN STELLAR ATMOSPHERES
SUI-64-4 N64-24896 17-29

CONTRIBUTION OF SPECTRAL ABSORPTION LINES TO OPACITY OF MATTER IN STELLAR INTERIORS
NASA-RP-254 N64-25974 18-29

THEORETICAL CALCULATIONS OF CONTINUUM OPACITIES AND RADIANT EMISSION FROM ISOTHERMAL AND NONISOTHERMAL GASES
TR-44 N64-26286 18-24

OPERATION
S FISHBOWL OPERATION

OPERATIONAL PROBLEM
RESERVE MECHANICAL SYSTEMS FOR OPERATIONAL PROBLEM IN REDUNDANT AUTOMATIC SYSTEMS N64-10697 02-06

GEOGRAPHICAL ORIENTATION, OPERATIONAL PROBLEMS, HUMAN PERFORMANCE DURING VIBRATION, AND PHYSICAL AND GEOMETRIC PARAMETERS AFFECTING VISIBILITY IN LOW ALTITUDE HIGH SPEED FLIGHT
ACR-95 N64-31508 23-14

OPERATIONAL PROBLEMS IN LOW ALTITUDE HIGH SPEED MISSION N64-31510 23-22

ALGORITHM FOR DETERMINING OPTIMAL WAYS OF SCHEDULING MULTIPLE OPERATIONAL PROBLEMS
PNR-TM-63-6 N64-33986 24-20

OPERATIONS RESEARCH
CF PLANNING
LUNAR, PLANETARY-INTERPLANETARY PROGRAM, DEEP SPACE INSTRUMENTATION FACILITY, OPERATIONAL & TEST FACILITY, AND SPACE SCIENCES
NASA-CR-53009 N64-13263 04-32

OPERATIONS RESEARCH APPLICATIONS IN SUPPORT PLANNING FOR MANNED SPACE FLIGHT
NASA-CR-55284 N64-14155 05-30

PROCEEDINGS OF OPERATIONS RESEARCH SYMPOSIUM
AD-424634 N64-15800 07-10

TACTICAL AIR WARFARE FORCE ALLOCATION - OPERATIONS RESEARCH
ESD-TDR-63-644, VOL. 1 N64-16496 08-01

TACTICAL AIR WARFARE FORCE ALLOCATION - OPERATIONS RESEARCH
ESD-TDR-63-664 N64-16511 08-01

OPERATIONS RESEARCH FOR OPTIMIZATION OF EXPERIMENT DESIGN
CIT-ORD-16-TR-10 N64-16890 08-20

MANAGEMENT PLANNING & OPERATION RESEARCH FOR TIROS H SATELLITE
NASA-TM-X-54699 N64-17608 09-32

OPERATIONS RESEARCH - COMPUTER PROGRAMMING AND ALGORITHMS
ORC-63-23/RN-4/ N64-18926 11-20

GEOMETRIC INTERPRETATION OF ALGORITHM FOR COMPUTER PROGRAMMING - OPERATIONS RESEARCH
N64-18927 11-20

APPLICATION OF ALGORITHM TO TRANSPORTATION PROBLEM TO MAXIMIZE FLOW THROUGH NETWORK - OPERATIONS RESEARCH N64-18928 11-20

TECHNIQUE FOR RESOLVING DEGENERACY IN LINEAR PROGRAMMING - OPERATIONS RESEARCH
N64-18929 11-20

MATHEMATICAL MODELING AND DIGITAL SIMULATION FOR SYSTEMS ANALYSIS IN OPERATIONS RESEARCH
RADC-TDC-63-407 N64-19115 11-20

OPERATIONS RESEARCH ALGORITHM FOR ACTIVITY ALLOCATION TO MINIMIZE TOTAL PROJECT DURATION
ORC-64-3/RR/ N64-21068 14-20

SPACE SURVEILLANCE SYSTEM - OPERATIONAL PROBLEMS
N64-24857 17-08

MANUFACTURING PLAN FOR REACTOR IN FLIGHT TEST /RIFT/ PROJECT - OPERATIONS RESEARCH
NASA-CR-56833 N64-25571 17-27

PLANNING AND OPERATIONS RESEARCH IN MACHINE BUILDING
JPRS-24993 N64-26260 18-17

OPERATIONS RESEARCH FOR RANGER BLOCK III PROJECT SYSTEMS
NASA-CR-56667 N64-26355 18-30

OPERATING CHARACTERISTICS OF REPETITIVELY PULSED TWO-STAGE COAXIAL PLASMA PROPULSION ENGINE
NASA-CR-54064 N64-31453 23-27

RESEARCH PROGRAM PLANNING
ONR-ACR/NAR-27 N64-32217 23-10

BIBLIOGRAPHY ON OPERATIONS RESEARCH & GAME THEORY

TDCK-36938 N64-32591 23-01

LINEAR PROGRAMMING UNDER UNCERTAINTY WITH DISCRETE JOINT DISTRIBUTION FOR TRANSPORTATION OR INVENTORY PROBLEMS IN OPERATIONS RESEARCH
ORC-64-13/RR/ N64-33311 24-20

LIMITING COVARIANCE IN MARKOV RENEWAL PROCESSES - OPERATIONS RESEARCH
ORC-64-16/RR/ N64-33312 24-20

OPERATIVE TEMPERATURE
STORAGE LIFE AND SAFE OPERATING TEMPERATURE FOR NIKE HERCULES MOTOR UNDER EXTREME CONDITIONS
REPT.-19-64 N64-32455 23-27

OPERATOR
SA DIFFERENTIAL OPERATOR
SA INTEGRAL OPERATOR
SA LAPLACE OPERATOR
SA RAYLEIGH-RITZ METHOD
SA STURM-LIOUVILLE OPERATOR
MATRIX ELEMENTS IN OCTET OPERATOR OF SULFUR URANIDE ION
URPA-13 N64-10194 01-19

ALTERNATING DIRECTION METHOD FOR OPERATORS WITH APPLICATION TO TRANSPORT EQUATION
WAPD-TM-391 N64-10429 01-20

SCHROEDINGER OPERATORS IN EUCLIDEAN SPACE
MRC-441 N64-16622 08-20

THEORY OF QUANTUM MECHANICS, MEASURING APPARATUS, OBSERVATION, AND OPERATORS N64-16679 08-23

OPERATOR STRUCTURE IN SYSTEMATIC UNITARY SYMMETRY WITH APPLICATION TO TRIPLETS N64-17025 09-23

LINEAR AND MATRIX OPERATORS IN COORDINATE SPACES
RSIC-140 N64-17639 09-20

REDUCTION OF FERMION OPERATORS BY LITTLE GROUP TECHNIQUE
PREPRINT-111 N64-19202 11-20

LINEAR OPERATORS IN LINEAR VECTOR SPACE
HDL-TR-1187 N64-22097 15-20

OPERATOR-VALUED FUNCTIONS IN HILBERT SPACE
MRC-458 N64-22599 15-20

MIKUSKINSKI THEORY OF OPERATOR CONSTRUCTION
FTD-TT-64-325/1 N64-26118 18-20

EXPANSION METHOD FOR CALCULATION OF EXPECTATION VALUES OF OPERATORS FOR LOWEST 2S AND 2PO STATES OF MEMBERS OF LITHIUM SEQUENCE
NASA-CR-57010 N64-27381 19-23

OPERATOR PERFORMANCE STUDY IN ORBITAL RENDEZVOUS TASK USING PREDICTOR DISPLAY
AMRL-TDR-64-55 N64-27445 19-14

SENSORY INTERACTION AND OPERATOR PERFORMANCE REACTION TO BISENSORY PRESENTATION OF INFORMATION
FPRC-1209/A/ N64-29766 21-14

EXPERIENCE AND APTITUDE TESTS FOR PREDICTION OF TRAINING AND JOB PERFORMANCE OF AIR TRAFFIC CONTROL SPECIALISTS
CARI-63-31 N64-29848 21-14

RECORDING APPARATUS FOR OPERATOR SENSORIMOTOR PERFORMANCE IN AUTOMATIC AND SEMIAUTOMATIC CONTROL SYSTEMS N64-30322 22-15

QUADRATIC EQUATIONS IN BOUNDED LINEAR OPERATORS IN HILBERT SPACE
CIT-ORD-16-TR-9 N64-30540 22-20

EFFECT OF SLEEP DEPRIVATION AND DEMANDING WORK-REST SCHEDULE ON CREW PERFORMANCE
AMRL-TDR-64-63 N64-31827 23-14

NONNEGATIVE DIFFERENCE ANALOGS OF ELLIPTIC DIFFERENTIAL EQUATIONS
MRC-492 N64-31963 23-20

MATRIX ELEMENTS OF DECUPLET OPERATOR OF UNITARY SYMMETRY - TENSOR METHOD
UR-875-53 N64-33141 24-23

OPHTHALMOLOGY
SA EYE
EFFECTS OF ALCOHOL AND HYPOXIA ON HETEROPHORIAS - REVIEW OF EXPERIMENTAL STUDIES
AD-433129 N64-17924 10-16

OPTICAL ABSORPTION
EQUATION FOR DETERMINATION OF OPTICAL ABSORPTION COEFFICIENT
AFCRL-63-325/2/ N64-18941 11-23

METHOD FOR MEASURING REFRACTIVE INDEX OF THIN ABSORBING LAYER ON ABSORBING BASE
AFCRL-63-918 N64-20449 13-23

GLASS TECHNOLOGY - OXIDATION REDUCTION AND OPTICAL ABSORPTION, NUCLEATION AND CRYSTAL GROWTH, MELTING AND REFINING, AND ELECTRICAL PROPERTIES OF GLASS
ONRL-48-64 N64-32539 23-19

OPTICAL CORRECTION PROCEDURE
SA LENS DESIGN
NEGATIVE LENSES IN OPTICAL SYSTEMS FOR IMPROVED LIGHT DISTRIBUTION AND DISTORTION CORRECTION N64-23546 16-06

OPTICAL EMISSION
OPTICAL EMISSIVITY & ELECTRICAL RESISTIVITY OF URANIUM-ZIRCONIUM CARBIDE PIN AT HIGH TEMPERATURES
LAMS-2965 N64-11593 03-18

REFLECTING TELESCOPE AND PHOTOELECTRIC SPECTROPHOTOMETER FOR STUDY OF PLANETARY OPTICAL EMISSION AND FLARE ACTIVITY OF NEARBY STARS
ONR-14-63 N64-26488 18-28

OPTICAL CHARACTERISTICS OF RUBY LASER EMISSION AND DESIGN OF HELIUM-NEON GAS LASERS
AROD-3309-5 N64-33692 24-23

OPTICAL EMISSION SPECTROSCOPY
ANALYSIS OF HIGH PURITY HAFNIUM BY OPTICAL EMISSION SPECTROSCOPY
BM-RI-6384 N64-15832 07-07

ANALYSIS OF HIGH PURITY NIOBIUM BY OPTICAL EMISSION SPECTROGRAPHY
BM-RI-6414 N64-17984 10-07

OPTICAL SIGNATURE DATA COLLECTED BY CINESPECTROPHS FROM RADIATION EMITTED BY REENTRY BODY N64-29113 21-08

QUANTITATIVE ANALYSES BY OPTICAL EMISSION SPECTROSCOPY OF ENERGY EXCHANGE MECHANISMS IN RARE GASES AND SOLIDS
AD-442965 N64-30618 22-23

AROMATIC ORGANIC LASER - SPECTROSCOPIC MEASUREMENTS, POLYMERIZATION, AND OPTICAL PROPERTY OF POLYMERS
AD-444962 N64-31122 22-25

OPTICAL EQUIPMENT
ASSEMBLY OF BREADBOARD OPTICAL EQUIPMENT FOR SPECTROGRAPHIC DETERMINATION OF COMBUSTION PRODUCTS AND TEMPERATURE IN SOLID PROPELLANT COMBUSTION ZONES
PR-6 N64-31693 23-26

CROSS SECTION AND CURVATURE VARIATIONS OF BEAM WAVEGUIDE PASSING THROUGH OPTICAL SYSTEM
TR-79 N64-33300 24-23

OPTICAL IMAGE
SA RETINAL IMAGE
SPOT DIAGRAM METHOD OF PHOTOGRAPHIC LENS IMAGE EVALUATION N64-10299 01-23

ASTRONOMICAL OBSERVATIONS IN NEW MEXICO, AND INSTRUMENTATION DESIGNED TO REDUCE EFFECTS OF ATMOSPHERE-INDUCED IMAGE ABERRATIONS
AFCRL-63-217 N64-17857 10-23

DESIGN AND EVALUATION OF IMAGE DISSECTOR ELECTRON

GUN FOR USE IN SCANNABLE MICROWAVE PHOTODETECTOR
RADC-TDR-64-74 N64-20029 13-23

EFFECT OF SURFACE DEFORMATION IN ROTATING OBLIQUE SCANNING MIRRORS ON IMAGE QUALITY IN FLYING-SPOT SCANNERS
REPT.-2900-469-T N64-20081 13-23

ULTRASONIC LIGHT SCANNING AND ACTIVE OPTICAL IMAGING SYSTEM
C930080-6 N64-20393 13-25

PROBLEM OF STEREOSCOPY IN BUBBLE CHAMBER - CORRECTION OF REFRACTION
RSIC-157 N64-20460 13-23

OPTICAL IMAGE CONVERTERS - BIBLIOGRAPHY
SB-64-5 N64-20498 13-15

OPTICAL PROJECTION IMAGE EVALUATION FOR TERMINAL GUIDANCE SIMULATOR
NDR-64-78 N64-24449 17-15

IMAGE QUALITY EVALUATION OF PHOTOGRAPHS
CAL-VE-1867-G-1 N64-30116 21-15

ULTRASONIC LIGHT SCANNING CELL DEVELOPMENT AND ACTIVE OPTICAL IMAGING SYSTEM
REPT.-0930080-12 N64-30889 22-15

COHERENT LIGHT-RECORDING TECHNIQUE TO ACHIEVE HIGH PACKING DENSITIES USING PHOTOGRAPHIC AND THERMOPLASTIC FILMS
RADC-TDR-64-203 N64-31909 23-25

ULTRASONIC LIGHT SCANNING EMPLOYING CRYSTAL QUARTZ DEFLECTION CELL AND ACTIVE OPTICAL IMAGING SYSTEM
B930080-3 N64-31924 23-23

OPTICAL INSTRUMENT
SA INTERFEROMETER
SA MODULATION INDUCING RETRODIRECTIVE OPTICAL SYSTEM
SA PERISCOPE
SA REFLECTOMETER
THEORY AND METHODS OF OPTICAL SYSTEMS DESIGN
JPRS-21979 N64-10598 01-01

STRUCTURAL & OPTICAL PERFORMANCE ANALYSES OF BRAYTON CYCLE SOLAR COLLECTOR
NASA-CR-52861 N64-11106 02-06

MEASURING ALTITUDE OF LOWER EDGE OF CLOUDS USING REFLECTED LIGHT AND OPTICAL INSTRUMENTS
FTD-TT-63-779/1&2 N64-11170 02-21

GYROSCOPIC, ELECTRONIC, AUTOMATIC, OPTIC, AND THERMAL INSTRUMENTS
JPRS-22479 N64-13565 05-01

OPTICAL PREPROCESSOR WITH INPUT FROM TELEVISION CAMERA APPLICABLE TO MINOS II LEARNING MACHINE FOR GRAPHICAL DATA PROCESSING
REPT.-13 N64-13614 05-23

OPTICAL AND RADIO FREQUENCY COMMUNICATIONS SYSTEMS
N64-15470 07-08

OPTICAL SYSTEMS USING FIBER OPTICS
N64-15473 07-23

USE OF TETRAHEDRONS OF TRANSPARENT MATERIAL AS OPTICAL TRAJECTOGRAPH
N64-15474 07-23

OPTICAL STATIC-SPLIT RECEIVER FOR LUNAR TRACKERS IN SATELLITES AND SOUNDING ROCKETS
N64-15476 07-15

OPTICAL COMMUNICATIONS SYSTEM FOR DEEP SPACE VEHICLE TO EARTH LINK
NASA-CR-55812 N64-16770 08-08

OPTICAL OBSERVATIONS OF SOLAR ACTIVE REGIONS ASSOCIATED WITH SOME INDIVIDUAL EVENTS
N64-17893 10-28

TECHNIQUE FOR PERIPHERALLY EXTENDING OPTICAL DISPLAY FIELD BY PRESENTING EXTRAFIELD ERROR IN ARC FORM AT EDGE OF DISPLAY
NRL-1506 N64-18033 10-23

OPTICAL SPACE COMMUNICATION SYSTEM - PERFORMANCE OF PHOTOMULTIPLIERS AND LASER PROPAGATION
NASA-CR-53467 N64-18132 10-08

QUANTITATIVE STRIOSCOPY FOR SUPERSONIC WIND TUNNEL DATA USING COLORED GRIDS AND MULTIPLE ENTRANCE SLIT N64-18210 10-15

DATA REDUCTION BY COHERENT OPTICAL LIGHT SYSTEM WITH PHOTOGRAPHIC FILMS
REPT.-4594-40-R N64-18871 11-23

WIDE ANGLE CONDENSER - CORRECTION PLATE FOR REDUCTION OF SPHERICAL ABERRATION IN OPTICAL INSTRUMENTS
FTD-TT-63-1098/1&2 N64-19757 12-23

OPTICAL, LIGHTING, AND PHOTOGRAPHIC EQUIPMENT FOR SODIUM REACTOR EXPERIMENT
NAA-SR-6387 N64-19894 12-06

PHOTOMULTIPLIER TUBES AND PHOTOVOLTAIC CELLS FOR USE IN OPTICAL DETECTION SYSTEM
EG&G-B-2711 N64-19900 12-15

SELF-CONTAINED OPTICAL SYSTEM FOR POSITION DETERMINATION IN INTERPLANETARY SPACE
NASA-CR-53989 N64-20586 13-22

SATELLITE-BORNE XENON FLASH OPTICAL BEACON FOR USE ON RANGE CALIBRATION SATELLITE - DESIGN STUDY
EG&G-B-2730, PT. 3 N64-21241 14-06

OPTICAL DEVICE WHICH COMPENSATES FOR LINEAR SHIFT IN PANORAMIC STRIP AERIAL PHOTOGRAPHY
FTD-TT-63-1005/1&2&4 N64-21964 15-15

OPTICAL INSTRUMENTS AND OTHER PRECISION MEASURING APPARATUS
FTD-TT-62-909/1&2&3&4 N64-22478 15-23

FOCUSING PROPERTIES OF OPTICAL SYSTEMS AND STELLAR REFRACTION N64-23462 16-16

RADIO, COMPUTER, GYROSCOPIC, NAVIGATIONAL, OPTICAL, AND THERMAL INSTRUMENTATION
JPRS-23033 N64-23532 16-04

IMAGE INCLINATION AND ROTATION IN OPTICAL INSTRUMENTS N64-23545 16-15

NEGATIVE LENSES IN OPTICAL SYSTEMS FOR IMPROVED LIGHT DISTRIBUTION AND DISTORTION CORRECTION
N64-23546 16-06

OPTIMUM TRAJECTORY, PERFORMANCE OF OPTICAL AND RADAR APPARATUS, AND ATMOSPHERIC DENSITY DATA FROM ARTIFICIAL EARTH SATELLITE N64-23636 16-31

MATERIALS FOR USE IN INFRARED OPTICAL SYSTEMS
RSIC-193 N64-23980 16-06

OPTICAL SYSTEMS OF TARGET SEEKERS & HOMING DEVICES
N64-24602 17-15

ULTRAVIOLET, VISIBLE, & INFRARED SPECTROPHOTOMETRY FOR ANALYSIS OF MANNED SPACECRAFT
N64-24621 17-15

OPTICAL EFFECTS OF HEAT TRANSFER BETWEEN TELESCOPE TUBES & AIR IN TUBE
LA-64-I N64-25587 17-05

PHOTOMULTIPLIER AS DETECTOR IN DIRECT OPTICAL SYSTEM
EG&G-B-2764 N64-25700 17-09

OPTICAL DISTANCE FINDER FOR GEODETIC STUDIES USING PULSE RADAR
FTD-TT-64-182/1&2&4 N64-26094 18-17

TESTING OF 60-CM PARABOLIC MIRROR AND SELECTION OF MIRROR MATERIALS
FTD-TT-64-170/1&2&3&4 N64-27089 19-15

TESTING OF 60 CM PARABOLIC MIRROR
N64-27090 19-15

IMAGERY PRODUCED BY LONG FOCAL LENGTH OPTICAL SYSTEMS UNDER DIFFERENT ATMOSPHERIC CONDITIONS
WRE-TN-ISD-39 N64-28027 20-15

VARIATION OF OPTIMUM FOCUS WITH APERTURE OF ABERRATED MULTICOMPONENT OPTICAL SYSTEMS
WRE-TN-OID-32 N64-28066 20-23

SPACECRAFT ON-BOARD OPTICAL GUIDANCE SYSTEM FOR PLANETARY APPROACH AND LANDING
NASA-CR-58236 N64-29004 20-22

STORED REFERENCE, OPTICAL CORRELATION DETECTOR FOR AUDIOFREQUENCY RANGE
REPT.-5-13-64-9 N64-29746 21-08

PHOTOGRAPHIC AND OPTICAL INSTRUMENTATION FOR SNAP-2/10A-3 DESTRUCTIVE TESTING
EG&G-1183-1071 N64-31627 23-15

CALIBRATION AND ANALYSIS OF ELECTRO-OPTICAL INSTRUMENTATION FOR RECORDING AND TRANSMISSION OF ROCKET AND SATELLITE BORNE SPECTRAL DATA
AFCRL-64-504 N64-31988 23-08

MACROSCOPIC OPTICAL WAVEGUIDE COMPONENT ANALYSIS, TESTING, AND CONSTRUCTION MATERIALS
NASA-CR-58870 N64-33039 24-17

ELECTRO-OPTICAL SIGNAL PROCESSOR FOR PHASED ARRAY ANTENNAS
CU-29-63-AMC-74/R/-ERL N64-33723 24-08

OPTICAL MASER
SA LASER
OPTICAL MASER EXPERIMENTS - RUBY LASER
TDR-169/3250-22/TR-2 N64-13744 05-25

MAXIMUM GAIN FOR FORWARD & BACKWARD WAVE OPTICAL MASER AMPLIFIERS
USAELRDL-TR-2375 N64-14325 06-25

APPLICATION OF OPTICAL MASERS IN BIOLOGY AND MEDICINE N64-15300 07-25

OPERATION AND FREQUENCY CHARACTERISTICS OF GASEOUS OPTICAL MASERS N64-15466 07-25

SOLID STATE OPTICAL MASERS PUMPED CONTINUOUSLY N64-15467 07-25

OPTICAL MASER APPLIED TO BRILLOUIN SCATTERING SPECTROSCOPY
AD-432142 N64-16834 08-25

ACOUSTIC WAVE AMPLIFICATION, OPTICAL MASERS, FERRITE NONLINEAR PROPAGATION, AND INTERACTIONS OF ELECTRON BEAM AND PLASMA
ML-1122 N64-20399 13-23

PRODUCTION OF OPTICAL MASER ACTION BY ACTIVATED GASES, FLUORESCENT MATERIALS AND SEMICONDUCTORS N64-20658 13-25

RELIABILITY AND FAILURE MECHANISMS OF GASEOUS OPTICAL MASERS N64-20992 14-25

FLUORESCENCE AND ABSORPTION OF RARE EARTH IONIC AND TRANSITION METAL IONIC SOLIDS - OPTICAL MASERS
AD-428961 N64-21051 14-25

SOLID STATE DEVICE - NONLINEAR INTERACTION INVOLVING OPTICAL MASER WAVES
TR-430 N64-22052 15-23

MICROWAVE RESEARCH - PIEZOELECTRIC SEMICONDUCTORS, OPTICAL MASERS, MICROWAVE PROPAGATION, LIGHT WAVE DIFFRACTION, AND LASER BEAMS
ML-1192 N64-27737 19-25

FABRICATION OF CRYSTALS FOR OPTICAL MASER
AD-438422 N64-30143 21-25

COHERENT LIGHT-RECORDING TECHNIQUE TO ACHIEVE HIGH PACKING DENSITIES USING PHOTOGRAPHIC AND THERMOPLASTIC FILMS
RADC-TDR-64-203 N64-31909 23-25

OPTICAL MEASUREMENT
COMPUTER PROGRAM FOR LONG LINE AZIMUTH DETERMINATION FROM RANGE & OPTICAL MEASUREMENTS
AFCRL-63-740 N64-12234 03-20

METHOD FOR OBTAINING RADIAL DISTRIBUTIONS FROM OPTICAL MEASUREMENTS ON CYLINDRICAL PLASMA
SC-4939/RR/ N64-13930 05-24

OPTICAL RADIUS OF VENUS FROM PHOTOGRAPHS TAKEN AT INFERIOR CONJUNCTION N64-14953 06-05

OPTICAL CONSTANT MEASURING METHOD FOR SINGLE CRYSTALS OF TUNGSTEN, MOLYBDENUM, AND NIOBIUM
AFCRL-63-547 N64-15067 07-23

ULTRAHIGH VACUUM SYSTEM FOR PREPARING CLEAN METAL SURFACES AND MEASURING OPTICAL CONSTANTS
NASA-CR-55515 N64-15388 07-23

SITOMETER - APPARATUS DESIGNED TO MEASURE ANGLE OF ELEVATION OF INFRARED SOURCE MOVING AT HIGH SPEED N64-18207 10-08

METHOD FOR MEASURING REFRACTIVE INDEX OF THIN ABSORBING LAYER ON ABSORBING BASE
AFCRL-63-918 N64-20449 13-23

OPTICAL DETERMINATION OF DETONATION VELOCITY IN SHORT CHARGES
NOLTR-64-23 N64-20846 14-24

STANDARDIZATION OF INFRARED OPTICAL MEASUREMENTS
NBS-8302 N64-21670 15-23

OPTICAL MEASUREMENT OF CONCENTRATION OF WATER DROPLETS IN ATMOSPHERE
FTD-TT-62-1803/1&2&4 N64-22637 15-21

OPTICAL MEASUREMENTS ON CONES AND CYLINDERS - LIGHT REFLECTION
EDL-M614 N64-24758 17-23

OPTICAL MEASUREMENTS OF NATURAL AURORA IN NORTHERN AURORAL ZONE FROM AIRCRAFT PLATFORM
EG&G-B-2651 N64-25699 17-12

OPTICAL MEASUREMENTS OF HIGH TEMPERATURES N64-26140 18-13

OPTICAL MEASUREMENT OF INTERNAL STRESSES
RSIC-190 N64-27048 19-33

OPTICAL TECHNIQUES FOR TEMPERATURE AND CONCENTRATION MEASUREMENTS OF COMBUSTION IN SUPERSONIC STREAMS
NASA-TN-D-2441 N64-27203 19-15

OPTICAL MEASUREMENT OF MOMENTS IN THIN BENT PLATES
RSIC-237 N64-28532 20-33

PHOTOGRAPHIC OPTICAL SEMIDIAMETER OF VENUS
NSG-142-61 N64-28975 20-05

METHODS AND INSTRUMENTS FOR METEOROLOGICAL OBSERVATIONS - RADIATION AND OPTICAL MEASUREMENT - AIRCRAFT AND RECORDING INSTRUMENTS - RADIOACTIVE ISOTOPES
JPRS-26742 N64-32328 23-21

OPTICAL INSTRUMENT FOR MEASURING CLOUD AND FOG MICROSTRUCTURE N64-32338 23-15

OPTICAL METHOD
CONTRIBUTIONS OF AUTOMATION TO PHOTO INTERPRETER FUNCTIONS - OPTICAL PROCESSING AND TEXTURAL ANALYSIS N64-10527 01-14

OPTICAL MODEL ANALYSIS OF INELASTIC SCATTERING OF NEUTRONS BY HEAVY NUCLEI
BNL-818/T-317/ N64-11643 03-23

OPTICAL DIFFUSION METHOD OF MEASURING TURBULENCE IN AIR FLOWS AND FLAMES N64-13415 05-24

OPTICAL TECHNIQUES FOR TEMPERATURE AND CONCENTRATION MEASUREMENTS OF COMBUSTION PRODUCTS IN SUPERSONIC STREAMS
AIAA PAPER-64-536 N64-20472 13-28

OPTICS - IMAGE EVALUATION TECHNIQUES
ITEK-9048-8 N64-27791 19-15

FEASIBILITY OF OPTICAL ROTATION FOR REMOTE DETECTION OF EXTRATERRESTRIAL LIFE
N64-31026 22-16

QUASI-OPTICAL METHODS FOR SHAPING AND TRANSMITTING MILLIMETRIC WAVES
NASA-TT-F-9028 N64-31446 23-08

BRUSHLESS ANALOG TO DIGITAL SHAFT POSITION ENCODER
N64-31490 23-15

SIMPLIFIED MODEL FOR POSITION DETERMINATION USING OPTICAL FIX DATA - GUIDANCE IN INTERPLANETARY NAVIGATION BY MANUAL CALCULATION
AD-602264 N64-32068 23-22

OPTICAL MODULATION
F-CENTER MODULATION TRANSFER SCHEME FOR NIROS PROGRAM
NASA-CR-55087 N64-12160 03-25

LASER TECHNIQUES FOR DOPPLER OPTICAL NAVIGATION - SUBCARRIER FREQUENCY, ELECTRO-OPTICAL MODULATION, AND NOISE ELIMINATION
QPR-2 N64-14667 06-25

OPTICAL MODULATION & DEMODULATION TECHNIQUES USING ELECTRO-OPTICAL PROPERTIES OF CRYSTALS
RN-166 N64-14915 06-23

MODULATION AND PHOTODIODE DEMODULATION OF OPTICAL WAVES
U2-802400-2 N64-23475 16-25

MODULATION OF LINEAR ELECTRO-OPTIC EFFECT AT MICROWAVE FREQUENCIES
NR-372-012 N64-26518 18-25

LASER, OPTICAL DETECTOR, AND MODULATION SYSTEMS FOR DEEP SPACE OPTICAL COMMUNICATION STUDY
NASA-CR-73 N64-26667 18-08

LASER TECHNIQUES FOR DOPPLER OPTICAL NAVIGATION IN SPACE VEHICLE GUIDANCE
QPR-1 N64-29051 21-08

OPTICAL PROPERTY
SA OPTICAL COUPLING
OPTICAL PROPERTIES OF QUADRUPOLE MAGNET DOUBLETS
BNL-795/T304/ N64-11642 03-23

PHOTOCONDUCTIVE AND OPTICAL PROPERTIES OF SEMICONDUCTORS N64-12173 03-25

OPTICAL PROPERTIES OF HIGH TEMPERATURE INFRARED TRANSMITTING GLASSES
TI-08-63-167 N64-12336 03-19

GROWTH OF OPTICAL CRYSTALS SUITABLE FOR LASER OPERATION
ASE-466 N64-13720 05-25

ELECTRICAL AND OPTICAL PROPERTIES OF SOME METAL CHELATES N64-15494 07-23

OPTICAL PROPERTIES OF EARTH ATMOSPHERE, ATMOSPHERIC RADIATION, AND ACTINOMETRY
JPRS-23547 N64-16542 08-21

EMISSION, ABSORPTION, AND EXCITATION SPECTRA OF LIUMOGEN PHOSPHOR FOR WAVELENGTH CONVERSION
N64-16682 08-23

THERMAL AND OPTICAL PROPERTIES OF PLASMAS
FTD-MT-63-188 N64-18691 11-24

SPECTROPHOTOMETRIC OPTICAL CHARACTERISTICS OF ARCTIC AIR MASSES
FTD-MT-63-17/1&2 N64-18747 11-21

OPTICAL PROPERTIES OF METALS
E-T-G-63-1 N64-18766 11-23

OPTICAL PROPERTIES AND MOLECULAR STRUCTURE OF NUCLEIC ACIDS AND THEIR PROPERTIES OBSERVED THROUGH DEOXYRIBONUCLEIC ACID N64-19439 12-16

OPTICAL TESTS ON RUBY CRYSTAL SAMPLES
NRL-6080 N64-21488 14-25

OPTICAL CONSTANTS OF GERMANIUM
REPT.-5557-4-F N64-21875 15-25

OPTICAL PROPERTIES OF RITCHEY-CHRETIEN TELESCOPES
N64-23060 16-05

OPTICAL PROPERTIES OF MONOMODAL AND BIMODAL DISPERSIONS OF SILVER BROMIDE IN LIQUID AND GELATIN SUSPENSIONS
NASA-CR-56307 N64-23987 16-19

OPTICAL PROPERTIES OF THIN FILMS OF METALS, SEMICONDUCTORS, AND DIELECTRICS
SAR-8 N64-25320 17-25

OPTICAL CONSTANTS OF SILVER CADMIUM ALLOYS NEAR 300 MILLIMICRONS WAVELENGTH RANGE
IS-863 N64-25816 17-18

OPTICAL PROPERTIES OF ALKALI HALIDES UNDER VACUUM ULTRAVIOLET RADIATION
NASA-CR-58134 N64-26595 18-25

FEASIBILITY OF HIGH SPEED COMPUTERS IN WHICH ALL SIGNALS ARE IN FORM OF OPTICAL ENERGY
RADC-TDR-64-123 N64-26935 18-20

SEMICONDUCTOR RESEARCH - ELECTRICAL AND OPTICAL PROPERTIES, IRRADIATION EFFECTS, & LOW TEMPERATURE STUDIES
AD-439233 N64-27344 19-25

OPTICAL PROPERTIES OF SEMICONDUCTING CRYSTALS UNDER VARIOUS TEMPERATURE, PRESSURE, MAGNETIC, AND ELECTRIC CONDITIONS
ARL-64-98 N64-27425 19-25

OPTICAL PROPERTIES AND ENVIRONMENTAL STABILITY OF SOLAR CELL ADHESIVES
LMSC-AD-34229 N64-28643 20-19

OPTICAL, ELECTRICAL, AND THERMAL PROPERTIES OF SOLAR CELLS FABRICATED FROM EPITAXIALLY GROWN SINGLE CRYSTAL GALLIUM PHOSPHIDE
N64-29166 21-06

NUCLEAR RADIATION EFFECTS ON ELECTRIC, MECHANICAL, AND OPTICAL PROPERTIES OF MERLON POLYCARBONATE
NARF-63-19T N64-29804 21-19

OPTICAL PROPERTIES OF CHROMOSPHERIC SOLAR FLARES ASSOCIATED WITH TYPE IV BURSTS OR NOISE STORMS
N64-30254 22-28

ENERGY TRANSFER IN SILICATE GLASS COACTIVATED WITH CERIUM AND NEODYMIUM
NRL-1546 N64-30676 22-25

OPTICAL PHOTOEFFECTS OF DISPERSED SILVER FILMS COATED WITH ABSORBED FILMS OF CESIUM AND CESIUM COMPOUNDS
AD-600224 N64-30910 22-25

AROMATIC ORGANIC LASER - SPECTROSCOPIC MEASUREMENTS, POLYMERIZATION, AND OPTICAL PROPERTY OF POLYMERS
AD-444962 N64-31122 22-25

OPTICAL PROPERTIES OF OPAQUE METAL FILMS BY ELLIPSOMETRIC MEASUREMENTS ON SUBSTRATE BACK SURFACE
SAR-10 N64-31124 22-25

FREQUENCY RESPONSE FUNCTION IN COHERENT OPTICAL SYSTEM AND FREQUENCY SELECTION CHARACTERISTICS IN TRANSMITTING OPTICAL INFORMATION
E-T-CH-63-4 N64-31170 22-23

INVESTIGATION OF OPTICAL PROPERTY OF COPPER-ZINC ALLOY - COLOR VARIATIONS AS FUNCTION OF ZINC CONCENTRATION AND TEMPERATURE
A64-12 N64-31648 23-25

SILICON - ELECTRICAL, OPTICAL, AND MAGNETIC PROPERTIES
OS-137 N64-32106 23-25

REFLECTIVITY OF METALS IN EXTREME ULTRAVIOLET
AFCRL-63-927 N64-33029 24-25

PHOTOVOLTAIC, OPTICAL, THERMAL, AND ELECTRICAL PROPERTIES OF MATERIALS AND MATERIAL STRUCTURES FOR SOLID STATE DEVICES
NASA-CR-58763 N64-33281 24-25

ELECTRIC AND OPTICAL PROPERTIES OF CRYSTALS FOR SUBMILLIMETER MASER
NASA-CR-59288 N64-33332 24-25

OPTICAL PUMPING
OPTICAL PUMPING OF GASES, ARTIFICIALLY ACCELERATED PARTICLES, & COSMIC RADIATION
JPRS-19547 N64-11070 02-23

OPTICAL PUMPING OF GASES AND APPLICATIONS TO STUDY OF ENERGY LEVELS, MAGNETIC FIELD, AND TIME MEASUREMENTS N64-11071 02-23

MODULATION INDUCING RETRODIRECTIVE OPTICAL SYSTEMS /MIROS/ PROGRAM - OPTICAL PUMPING
NASA-CR-52859 N64-11109 02-23

SOLID STATE OPTICAL MASERS PUMPED CONTINUOUSLY N64-15467 07-25

MODULATION INDUCING RETRODIRECTIVE OPTICAL SYSTEM STUDIES - OPTICAL PUMPING AND FREE CARRIER ABSORPTION
NASA-CR-56172 N64-20813 14-23

NUCLEAR MAGNETIC RESONANCE OSCILLATOR - OPTICAL PUMPING N64-21011 14-25

RESPONSE OF CESIUM OPTICAL PUMPING SYSTEM TO AUDIOMODULATED MICROWAVE SIGNALS - MIROS PROGRAM
NASA-CR-56566 N64-24124 16-06

OPTICALLY PUMPED SOLID STATE LASER WITH TEN WATTS OF CONTINUOUS WAVE POWER
IER-5 N64-28550 20-25

PUMPING OF CALCIUM FLUORIDE-DYSPROSIUM ION LASER USING GALLIUM ARSENIDE DIODES
NASA-CR-58645 N64-29407 21-09

RANGE EXTENSION OF ELECTROMAGNETIC SPECTRUM BY CONTINUOUS OSCILLATION FREQUENCY OF OPTICALLY PUMPED MASER
CU-6-64-SC-90789 N64-30590 22-25

NEON-HYDROGEN LASER AND PHASE RELATIONSHIP BETWEEN OPTICAL PUMP AND PULSED LASER OUTPUT
AD-603405 N64-30907 22-24

OPTICAL RADAR
OPTICAL RADAR OBSERVATIONS AND UPPER ATMOSPHERE ECHOES FROM METEOR DISINTEGRATION, AND ESTIMATED MATTER INFLUX
NASA-CR-55057 N64-12028 03-05

DETECTION OF SCATTERING LAYERS IN UPPER ATMOSPHERE BY OPTICAL RADAR N64-13148 04-25

OPTICAL RADAR FOR SPACE RENDEZVOUS AND DOCKING N64-16189 08-08

INTENSITY AND SHAPE OF REFLECTED RUBY LASER PULSES FOR OPTICAL RADAR SYSTEMS
RTD-TDR-63-4148 N64-21020 14-25

OPTICAL RADAR EXPERIMENTS AND METEORIC FRAGMENTATION N64-25736 17-29

GEODIMETER - OPTICAL RADAR DISTANCE MEASURING EQUIPMENT
FTD-TT-63-1154/1&2&4 N64-27839 19-15

CONTINUOUS WAVE OPTICAL RADAR FOR EARLY LAUNCH PHASE TRAJECTORY MEASUREMENT
REPT.-75348 N64-29823 21-15

OPTICAL SATELLITE TRACKING PROGRAM
OPTICAL SATELLITE TRACKING PROGRAM
NASA-CR-55652 N64-33135 24-08

DATA ACQUISITION, PROCESSING, AND UTILIZATION FOR OPTICAL SATELLITE TRACKING PROGRAM
NASA-CR-56245 N64-33778 24-12

OPTICAL SIGNAL
CF VISUAL SIGNAL
TRAVELING-WAVE PHOTOTUBE CAPABLE OF PHOTOMIXING OPTICAL SIGNALS OF DIFFERING FREQUENCY CONTENT
AFCRL-63-379 N64-12676 04-09

MIRRECHON - OPTICAL SIGNAL STORAGE DEVICE
AD-432225 N64-21387 14-09

SATELLITE CONFIGURATIONS FOR REFLECTION OF OPTICAL SIGNALS FROM HIGH POWER LASERS
AFCRL-64-475 N64-29909 21-08

GUIDED PROPAGATION OF OPTICAL SIGNAL BY BEAM WAVEGUIDE
RADC-TDR-64-65 N64-30937 22-23

OPTICAL SPECTRUM
OPTICAL SPECTRA OF LOW MOLECULAR WEIGHT COMPOUNDS USING MATRIX ISOLATION TECHNIQUE
IITRI-C6013-4 N64-28817 20-13

OPTICAL SPECTRA OF LOW MOLECULAR WEIGHT COMPOUNDS FORMED IN EXHAUST GASES OF ROCKET MOTORS
IITRI-C6013-5 N64-32962 24-07

RUBY OPTICAL SPECTRUM - ABSORPTION AMONG ZEEMAN COMPONENTS OF R & B LINES AND OPTICAL DETECTION OF MICROWAVE RESONANCE IN GROUND STATE
TR-437 N64-33872 24-25

OPTICAL THICKNESS
MOLECULAR OPTICAL THICKNESS OF LOW DENSITY MODELS OF ATMOSPHERE OF MARS
R64SD21 N64-24975 17-29

OPTICAL TRACKING
S-66 SATELLITE OPTICAL TRACKING EXPERIMENT USING LASER BEACON
NASA-TM-X-52075 N64-10108 01-25

GEOCENTRIC COORDINATES OF SATELLITES FROM OPTICAL OBSERVATIONS N64-19088 11-08

PASSIVE OPTICAL SPACE SURVEILLANCE SYSTEM - TARGET DISCRIMINATION IN CELESTIAL ENVIRONMENT AND ORBIT PREDICTION
RADC-TDR-63-415 N64-21070 14-23

LUNAR OPTICAL RANGING EXPERIMENT USING LASERS
AFCRL-63-908 N64-21669 15-08

OPTICAL OBSERVATIONS OF SATELLITES FOR FEBRUARY 1964 N64-24889 17-32

OPTICAL OBSERVATIONS OF SATELLITES FOR MARCH 1964 N64-24890 17-32

PRECISION OPTICAL TRACKING SYSTEM FOR ADVANCED LAUNCH VEHICLES
NASA-TM-X-53076 N64-31548 23-15

OPTICAL TRANSITION
MODULATING OPTICAL TRANSITION PROBABILITIES
ML-1111 N64-25038 17-23

CALCULATION OF OPTICAL TRANSITION /ELECTRONIC AND VIBRATIONAL/ PROBABILITIES FOR ATOMS AND DIATOMIC MOLECULES N64-29053 21-23

STATIC AND DYNAMIC PERTURBATIONS EFFECT ON SHARP OPTICAL TRANSITIONS IN CRYSTALS
ML-1190 N64-29873 21-25

OPTICS
SA ATMOSPHERIC REFRACTION
SA DIFFRACTION PATTERN
SA FIBER OPTICS
SA FOCUS
SA INTERFEROMETRY
CF ABERRATION
ABILITY OF HUMAN SUBJECTS TO PERCEIVE SIX BASIC GEOMETRIC DESIGNS AT VARIOUS ANGLES
HSR-RR-61/13-MK-X N64-10446 01-14

THEORY AND METHODS OF OPTICAL SYSTEMS DESIGN

JPRS-21979 N64-10598 01-01

SPECTROHELIOGRAM STUDY OF OPTICAL PHENOMENA ASSOCIATED WITH SOLAR FLARES
DGO-11.162 N64-11500 03-28

LASER CRYSTAL GROWTH AND REFINING
N64-12562 04-25

WIDEBAND LASER MODULATORS USING CRYSTALS WITH LINEAR ELECTRO-OPTIC EFFECTS, MICROWAVE PHOTOTUBE TO DEMODULATE LIGHT N64-12563 04-25

LASER RANGING SYSTEM - SIGHTING TELESCOPE, TRANSMITTER, RECEIVER OPTICS N64-12564 04-25

BIREFRINGENCE AT CONSTANT FIELD INTENSITY AND VARIABLE TEMPERATURE OF POTASSIUM DIHYDROGEN & DI-DEUTERIUM PHOSPHATE CRYSTALS
E-T-G-63-20 N64-13030 04-25

USE OF OPTICS FOR STUDY OF POSITRON TRANSFER IN LINEAR ACCELERATOR
LNF-63/70 N64-13177 04-23

CHEMICAL REACTION KINETICS, THEORY OF LIQUIDS, AND OPTICAL ROTATION STUDIES
PR-3 N64-14172 06-23

OPTICAL MODULATION & DEMODULATION TECHNIQUES USING ELECTRO-OPTICAL PROPERTIES OF CRYSTALS
RN-166 N64-14915 06-23

DEPTH PERCEPTION FROM BINOCULAR DISPARITY
CARI-63-10 N64-15165 07-16

FIRST AND SECOND ORDER BEAM OPTICS OF CURVED, INCLINED MAGNETIC FIELD BOUNDARY IN IMPULSE APPROXIMATION
SLAC-24 N64-15396 07-23

ROLE OF CHROMATIC ABERRATIONS IN BEAM TRANSPORT CHANNEL DESIGN AND PROPERTIES
CERN-64-2 N64-15425 07-23

FIBER OPTICS AND ITS USE IN ELECTRO-OPTICAL DEVICES - CAMERA, PRINTER, TELEVISION, AND ANALOG-TO-DIGITAL CONVERTER N64-15472 07-23

FREQUENCY MODULATION OF GAS LASER BY AXIAL MAGNETIC FIELD AND NONLINEAR OPTICAL EFFECTS
SSD-TDR-63-351 N64-16086 07-25

FLIGHT EVALUATION OF WIDE-ANGLE, OVERLAPPING MONOCULARS FOR PROVIDING PILOT FIELD OF VISION
NASA-TN-D-2265 N64-17753 09-23

MINIMIZING OPTICAL DISTORTIONS OF GEL COATS USED IN FABRICATION OF RIGIDIZED INFLATABLE SOLAR ENERGY CONCENTRATORS
NASA-CR-53356 N64-17823 09-06

SPATIAL, SPECTRAL, AND INTENSITY DISTRIBUTION MEASUREMENTS OF OPTICAL RADIATION WITH MODEL WW-1 LOGARITHMIC NINE-CHANNEL RADIOMETER
AFCRL-63-896 N64-17849 10-15

NEUROPHYSIOLOGY - THEORY OF CENTRAL NERVOUS SYSTEM FUNCTION, AND OPTICAL PHENOMENA
N64-17885 10-16

SIGNAL DETECTION, LASER BEAM PROPAGATION, AND SCATTERING STUDIES IN OPTICAL SPACE COMMUNICATION
NASA-CR-53466 N64-18133 10-11

OPTICAL COMMUNICATION IN SPACE - DATA TRANSMISSION SYSTEMS
NASA-CR-53581 N64-18442 10-08

OPTICS - 43-INCH PRIMARY MIRROR AND TELESCOPE TESTING FOR LUNAR AND PLANETARY PHOTOGRAPHY
AFCRL-63-949 N64-18648 11-15

ELECTRO-OPTICS - ELECTRONIC PULSE AMPLIFIER & SEMICONDUCTOR INVESTIGATION TO EXTEND APPLICABILITY OF INTEGRATED CIRCUITS
AD-434170 N64-18844 11-09

OPTICS - ARRAY THEOREM STUDY BY MUTUAL COHERENCE USING MONOCHROMATIC RADIATION
AFCRL-64-19 N64-18942 11-09

IBM 7090 COMPUTER PROGRAM FOR BEAM OPTICS PROBLEMS ON SYNCHROCYCLOTRON
CERN-64-15 N64-19493 12-20

ELECTRO-OPTICAL MEASUREMENT OF MISSILE ATTITUDE DURING LAUNCH USING LASER BEAMS
ESD-TDR-63-624 N64-19974 12-15

ANALYSIS OF MULTIREFLECTOR OPTICAL RESONATORS USING GEOMETRICAL OPTICS AND SELF-CONSISTENT FIELD TECHNIQUES
AFCRL-64-161 N64-20087 13-25

COMPARISON OF GEOMETRICAL OPTICS METHOD AND SUPERPOSITION APPROXIMATION FOR OBTAINING RADAR CROSS SECTIONS OF DIELECTRIC-CLAD BODIES
REPT.-1116-41 N64-20090 13-23

FABRY-PEROT INTERFEROMETER WITH ELECTRO-OPTICAL CRYSTALS AS PHASE SHIFTERS AND USED AS WIDEBAND COHERENT LIGHT MODULATOR
ASD-TDR-63-604 N64-20732 13-25

CESIUM BEAM OPTICS, C-FIELD HOMOGENEITY, MAGNETIC SHIELDING, AND MICROWAVE STRUCTURES
REPT.-1 N64-21518 15-23

STATISTICAL OPTICS AND INFORMATION THEORY
AROD-3157-6 N64-21578 15-23

LASER - ANALYSIS OF GENERALIZED OPTICAL ARRAYS
RTD-TDR-63-4138 N64-21982 15-23

OPTICAL ACTIVITY OF ORGANIC MATTER SAPONIFIED FROM ORGUEIL CARBONACEOUS METEORITE N64-22489 15-05

OPTICAL ACTIVITY IN SAPONIFIED ORGANIC MATTER ISOLATED FROM INTERIOR OF ORGUEIL METEORITE
NASA-CR-53660 N64-22751 16-05

FAST CAMERA WITH SPHERICAL OPTICS
FTD-MT-63-354 N64-23301 16-15

CAMERA WITH ENHANCED LIGHT GRASP FOR PRECISE SATELLITE RECORDING
RAE-TN-IR-30 N64-23376 16-31

MACROSCOPIC OPTICAL WAVEGUIDE COMPONENTS
NASA-CR-56569 N64-24026 16-09

RESOLUTION CAPABILITIES OF OFF-AXIS DETECTOR ELEMENTS IN PARABOLIC OPTICAL SYSTEMS
REPT.-2900-475-T N64-24884 17-06

DETERMINATION OF PLANAR STRESS BY AXIAL PATTERN METHOD OF CRYSTAL OPTICS
RSIC-180 N64-25219 17-33

DOUBLE REFRACTION ARTIFICIALLY PRODUCED BY COMPRESSION OF REGULAR CRYSTALS
RSIC-185 N64-25221 17-25

OPTICAL DETERMINATION OF INTERNAL STRESSES IN FLAT PLATE STRUCTURES
RSIC-189 N64-25223 17-33

RADIANT ENERGY TRANSFER IN SCATTERING AND ABSORBING MEDIUM
AFCRL-64-366 N64-25474 17-12

ATMOSPHERIC OPTICS ABOARD ARTIFICIAL SATELLITES
NASA-TT-F-8912 N64-25540 17-05

MODIFIED OPTICAL GEOMETRIC METHOD FOR BISTATIC RADAR CROSS SECTIONS OF DIELECTRIC BODIES
AFCRL-64-296 N64-25832 17-09

MODULATION OF LINEAR ELECTRO-OPTIC EFFECT AT MICROWAVE FREQUENCIES
NR-372-012 N64-26518 18-25

SOLID STATE RESEARCH - DEVICE DESIGN & MATERIALS, BAND STRUCTURE & SPECTROSCOPY, TRANSITION-METAL & RARE-EARTH COMPOUNDS, AND OPTICS
AD-439686 N64-26649 18-25

LASER OPTICS METHOD FOR LUNAR OBSERVATION
FTD-TT-64-336/1 N64-26933 18-05

TEMPERATURE CONTROL AND INORGANIC OPTICAL COATINGS
N64-27019 19-17

PROBLEM OF SELECTING MATERIALS FOR MIRRORS AND FEASIBILITY OF USING CERAMICS N64-27091 19-17

INFLUENCE OF SYMMETRY ON OPTICAL SELECTION AND LINE INTENSITY CHANGE BY ELECTRIC FIELD TO REDUCE SYMMETRY
ML-973 N64-27234 19-23

OPTICAL METHOD FOR DETERMINING ACTUAL CONTACT AREAS ON FRICTION PLANE
RSIC-192 N64-27489 19-19

RANDOM OPTICS OF PARTICLE BEAMS
REPT.-03106-15 N64-27678 19-23

X-RAY FLUORESCENCE DATA OBTAINED THROUGH FIXED CRYSTAL EVACUATED CAMERA
NRL-6096 N64-27959 20-07

PHYSICAL OPTICS MODEL FOR STUDY OF PLASMA SHEATH EFFECT ON HEAD-ON RADAR CROSS SECTION OF BLUNT BODIES
CARDE-TR-507 N64-28016 20-24

GEOMETRIC OPTICS APPLIED TO SPHERICAL REFLECTORS
AFCRL-64-292 N64-28568 20-23

ABERRATION EFFECTS ON OPTICAL TRANSFER FUNCTION FOR LOW SPATIAL FREQUENCIES
T-G-200 N64-28715 20-23

ELECTRO-OPTICAL AND PIEZOELECTRIC METHODS FOR RAPID DEFLECTION OF LASER BEAMS
NASA-CR-58626 N64-28886 20-25

FIGURES-OF-MERIT FOR PHOTODEVICES, OPTICAL MIXERS USING PHOTOELECTRIC EMISSION, OPTICAL MIXING IN SEMICONDUCTORS, & MIXING IN INSULATING CRYSTALS
AFCRL-63-508 N64-29279 21-09

FAR INFRARED MAGNETO-OPTICAL STUDIES OF SEMICONDUCTORS N64-29482 21-23

SNELL LAW AND GEOMETRICAL OPTICS USED TO CALCULATE ERRORS IN RADAR POSITION OBSERVATIONS DUE TO ATMOSPHERIC REFRACTION
USAERDAA-MET-7-64 N64-29550 21-08

GAS LASER LIGHT SOURCE FOR DEMONSTRATION IN OPTICS
N64-30135 21-23

OPTICAL MAPPING - COLLINEATION ON A PLANE USING PRODUCTS OF TWO POLAR CORRESPONDENCES
FTD-MT-63-317 N64-31879 23-20

OPTICAL EQUIPMENT AND MEASURING APPARATUS FOR MINING AND RESEARCH
RSIC-241 N64-32493 23-33

EFFECT OF ATMOSPHERIC TURBULENCE ON LASER COMMUNICATIONS SYSTEM, OPTICAL WAVE FRONT DISTORTION, ANGULAR SCINTILLATION, AND PHASE AND AMPLITUDE CORRELATION FUNCTIONS
SID-64-1894-2 N64-32756 24-08

FREQUENCY DISTRIBUTION OF OPTICAL SIGNAL BY ATMOSPHERIC OPTICAL DOPPLER
TM-135 N64-32766 24-08

MACROSCOPIC OPTICAL WAVEGUIDE COMPONENTS
NASA-CR-59176 N64-33179 24-17

ELECTRON MICROSCOPY AND ELECTRON OPTICAL TECHNIQUES IN EXOBIOLOGY
NASA-CR-59251 N64-33286 24-16

MOSSBAUER EFFECT FOR PRECISE MEASUREMENT IN SOLID STATE & ATOMIC PHYSICS, MECHANICS, GEODESY, AND OPTICS
I-A2217-6 N64-33722 24-25

OPTIMAL CONTROL
SA TIME OPTIMAL CONTROL

MAPPING OF NONLINEAR INVARIANT VECTOR-DYADIC EQUATIONS TO STATE VECTOR FORM FOR OPTIMAL CONTROL
TN-41 N64-10544 01-20

DETERMINING STABILIZATION ACTION OF CONTROLLER TO MINIMIZE INTEGRAL QUADRATIC ERROR IN LINEAR CONTROL SYSTEM WITH TIME LAGS
JPRS-19822 N64-10591 01-09

AUTOMATIC CONTROL OF MULTIVARIABLE, ADAPTIVE, OPTIMAL, SELF-ORGANIZING SYSTEMS AND PERTURBATION METHOD IN ADAPTATION AND FEEDBACK
N64-10830 02-20

OPTIMUM CONTROL OF PROCESSES DESCRIBED BY DIFFERENTIAL EQUATIONS N64-11196 02-20

CONSTRUCTION & OPTIMAL CONTROL OF AUTOMATIC MACHINES - CYBERNETICS
JPRS-22188 N64-11416 02-16

NONLINEAR PROBLEM OF ROCKET DYNAMICS - OPTIMUM CONTROL STRUCTURE AND FIRST INTEGRALS
N64-11611 03-20

SOVIET SCIENCE - OPTIMAL CONTROL, RADICALS, RESONANCE SPECTRA, DETRITUS ANALYSIS, BONE REGENERATION, & MAGNETIC FIELD EFFECT ON BIOLOGY
JPRS-20231 N64-12493 04-01

VARIATIONAL FORMULATION OF OPTIMAL CONTROL PROBLEM WITH FUNCTIONALS DEPENDING ON INTERMEDIATE COORDINATE VALUES N64-12494 04-20

PONTRYAGIN OPTIMAL PRINCIPLE APPLIED TO CONTROL SYSTEM PROBLEMS WHERE OPTIMIZATION CRITERION IS MINIMUM FUEL CONSUMPTION
NASA-CR-55149 N64-13189 04-29

SPACE VEHICLE DYNAMICS - OPTIMAL CONTROL OF TRANSFER TIME N64-13338 04-29

PONTRYAGIN MAXIMUM PRINCIPLE - SUFFICIENT AND NECESSARY CONDITION FOR OPTIMAL CONTROL
NASA-CR-55352 N64-14153 05-20

VARIATIONAL PROBLEMS ON OPTIMAL CONTROL PROCESSES IN BOUNDED COORDINATE SYSTEM
MH-TRANS-385 N64-14545 06-20

OPTIMIZATION OF FLIGHT COURSE ADJUSTMENT WITH VANES UNDER TIME-DEPENDENT DISTURBANCES
N64-14614 06-04

DIFFERENTIAL DESCRIPTION OF CONTINUOUS DEPENDENCE OF SOLUTION TO ONE PROBLEM OF OPTIMAL REGULATION ON INITIAL DATA AND PARAMETERS
MH-TRANS-404 N64-14806 06-20

STATISTICAL PROBLEM OF OPTIMAL CONTROL - FUNCTIONAL OF CONTROL PROCESS N64-14957 06-20

DISCONTINUOUS SYSTEM VARIABLES IN OPTIMUM CONTROL OF SECOND-ORDER OSCILLATORY SYSTEMS WITH ZEROS
AD-429417 N64-15099 07-20

SOLUTION OF OPTIMUM DETECTION AND RECOGNITION OF PULSE RADAR SIGNAL AGAINST NOISE BACKGROUND
N64-15135 07-08

ROCKET BOOSTER CONTROL - TIME-OPTIMAL BOUNDED PHASE COORDINATE CONTROL FOR SYSTEMS MODELED BY LINEAR RECURRENCE EQUATIONS
NASA-CR-55430 N64-15543 07-20

OPTIMAL CONTROL OF LINEAR PLANTS WITH RANDOM PARAMETERS
PIBMRI-1200-63 N64-15951 07-20

OPTIMAL CONTROL IN NONLINEAR SYSTEMS
TIL/T-5462 N64-16664 08-06

OPEN LOOP OPTIMAL CONTROL PROBLEM FOR PLANTS REPRESENTED BY LINEAR RECURRENCE EQUATIONS - ROCKET BOOSTER CONTROL
NASA-CR-53115 N64-16759 08-06

OPTIMAL CONTROL PROBLEM FOR LINEAR SYSTEMS - ROCKET BOOSTER CONTROL

NASA-CR-53110 N64-16761 08-06

CONTROL OF DISCRETE STOCHASTIC PROCESSES AS FUNCTION OF COST FOR MAKING CORRECTIVE ACTIONS
AMRL-TDR-63-111 N64-17508 09-14

OPTIMAL BANG-BANG CONTROL WITH QUADRATIC PERFORMANCE INDEX N64-17568 09-20

OPTIMUM SYSTEM OF WELDING CONTROLS TO INTEGRATE TRAVEL SPEED & WIRE FEED IN METAL INERT GAS WELDING PROCESS
NASA-CR-53246 N64-17572 09-17

THEORY OF OPTIMUM CONTROL IN THERMAL DISTRIBUTION PROCESSES
JPRS-24072 N64-17974 10-20

ON-LINE SOLUTION TO SAMPLED-DATA TIME OPTIMAL CONTROL USING SPECIAL PURPOSE COMPUTER
N64-18109 10-20

VARIATIONAL CALCULUS APPROACH TO OPTIMAL CONTROLS
NASA-CR-53346 N64-18299 10-20

PARAMETRIZATION OF OPTIMAL MINIMUM AND MAXIMUM ESTIMATION OF TRAJECTORY FUEL CONSUMPTION
NASA-CR-53593 N64-18429 10-20

DISCRETE OPTIMAL CONTROL SYSTEMS FOR SYSTEMS DESCRIBED BY NONLINEAR DIFFERENCE EQUATIONS
NASA-CR-53583 N64-18430 10-20

APPLICATION OF STOCHASTIC DIFFERENTIAL EQUATIONS TO OPTIMAL NONLINEAR FILTERING IN CONTROL THEORY
NASA-CR-53567 N64-18447 10-20

AUTOPILOT DESIGN FOR OPTIMUM CONTROL OF AERO-DYNAMICALLY UNSTABLE BOOSTER
RES. REPT.-63-RC-8 N64-18474 10-06

COMPILER FOR THREE-ADDRESS MACHINE - OPTIMAL RATE CONTROL FOR LINEAR SYSTEM - INHIBITOR CIRCUIT DESIGN
JPRS-24055 N64-18964 11-20

COMPUTATION OF APPROXIMATELY OPTIMAL CONTROL BY PROCEDURE BASED ON PONTRYAGIN PRINCIPLE
NASA-CR-53781 N64-19351 12-06

SYNTHESIS PROCEDURE FOR OPTIMUM MULTIVARIABLE FEEDBACK SYSTEM
R-173 N64-19400 12-20

STATE VECTOR EQUATIONS FOR PARAMETER VARIATION PROBLEM IN MULTIVARIABLE LINEAR SYSTEMS - OPTIMAL FEEDBACK CONTROL SYSTEM DESIGN
R-182 N64-19405 12-20

VECTOR MATRIX NOTATION OF OPTIMAL FEEDBACK CONTROL PROBLEMS WITH INEQUALITY CONSTRAINTS
N64-19498 12-06

STATISTICAL DYNAMICS OF LINEAR SYSTEMS AND OPTIMAL SYSTEMS OF AUTOMATIC CONTROL
FTD-TT-63-468/1&2&4 N64-19748 12-20

APPROXIMATION TECHNIQUE FOR CONSTRUCTION OF CONTROL LAW FOR OPTIMAL STABILIZATION OF NONLINEAR SYSTEM
RN-165 N64-19924 12-20

ADAPTIVE AND SELF-OPTIMIZING CONTROL SYSTEMS
AD-429297 N64-20279 13-06

DYNAMIC PROGRAMMING METHODS FOR OPTIMUM FLIGHT CONTROL PROBLEMS
FDL-TDR-64-11 N64-20862 14-20

OPTIMAL PROPORTIONAL CONTROL OF BLENDING PROCESS FOR WATER AND SALT SOLUTION USING IMPRECISE FEEDBACK INFORMATION
UCRL-11295 N64-20887 14-06

OPTIMAL GUIDANCE APPROXIMATIONS USING PERTURBATION THEORY N64-20953 14-22

SOLUTION OF BOUNDED PHASE COORDINATE OPTIMAL CONTROL PROBLEM WITH USE OF PENALTY FUNCTIONS -
ROCKET BOOSTER CONTROL
NASA-CR-59 N64-21054 14-20

FEEDBACK CONTROL SYSTEM FOR AEROSPACE VEHICLES - OPTIMAL CONTROL PROBLEM FORMULATION
RES. REPT.-63-RC-1 N64-21069 14-09

LINEAR FLIGHT CONTROL SYSTEMS USING OPTIMAL CONTROL THEORY
CAL-IH-1648-F-1 N64-21106 14-04

IMPROVEMENT OF HUMAN OPERATOR TRACKING PERFORMANCE IN MAN-MACHINE CONTROL SYSTEMS BY OPTIMUM FILTERING AND PREDICTION N64-21122 14-14

ROCKET BOOSTER CONTROL - SUFFICIENT CONDITION IN OPTIMAL CONTROL
NASA-CR-50 N64-21253 14-30

OPTIMIZATION OF LINEAR CONTROL LAWS FOR SINGULAR LINEAR CONTROL SIGNAL SYSTEM
R-188 N64-22128 15-20

MAXIMUM PRINCIPLE IN THEORY OF OPTIMAL CONTROL PROCESSES
FTD-TT-62-1746/1&2&4 N64-22143 15-16

SUCCESSIVE APPROXIMATIONS BASED ON PONTRYGIN PRINCIPLE FOR SOLUTION OF OPTIMAL CONTROL PROBLEMS
FTD-TT-63-701/1&2 N64-22181 15-09

TIME OPTIMAL CONTROL WITH AMPLITUDE AND RATE LIMITED CONTROL - ROCKET BOOSTER CONTROL
NASA-CR-48 N64-23030 16-06

OPTIMUM SPEED INDICATOR AND REGULATOR FOR RIVER BOATS N64-23091 16-15

OPTIMUM NONLINEAR CONTROL FOR STEP AND PULSE DISTURBANCES N64-23196 16-06

OPTIMAL CHARACTERISTICS OF CONTROL SYSTEMS WITH MODULATION N64-23800 16-09

OPTIMAL CONTROL OF ELECTRIC LOCOMOTIVE
N64-23801 16-09

STABILITY OF SYSTEMS OF EXTREMAL REGULATION WITH CONSTANT SEARCH SPEED N64-23802 16-09

THEORY OF OPTIMAL LINEAR CONTROL SYSTEM
USCEE-105 N64-24080 16-06

NOTIONS IN OPTIMIZING SYSTEM WITH SENSITIVITY CONTROL N64-24513 17-23

EXTREMAL CONTROL OF CONTINUOUS MULTIPARAMETER SYSTEMS BY RANDOM SEARCH METHOD
N64-24698 17-20

AUTOMATON - DIFFERENTIAL EQUATIONS FOR OPTIMAL CONTROL PROBLEMS N64-24701 17-20

OPTIMAL TRANSFER PROCESSES IN SYSTEM WITH FORECASTING N64-24707 17-16

ASPECTS OF GENERAL SOLUTION TO OPTIMAL CONTROL PROBLEM - BOUNDARIES OF LINEAR, NONLINEAR, AND SATURATION MODES N64-24980 17-20

OPTIMAL CONTROL OF LONG RUNNING STOCHASTIC SYSTEMS
PIBMRI-1220-64 N64-25332 17-06

MATHEMATICAL ANALYSES OF PROBLEMS OF OPTIMAL CONTROL AND LINEAR ELLIPTICAL SYSTEMS
FTD-TT-63-1075/1 N64-25439 17-06

EXISTENCE OF ABSOLUTE MINIMUM IN OPTIMAL CONTROL PROBLEM N64-25440 17-06

EVALUATION OF OPTIMAL CONTROL AND PERFORMANCE PREDICTION METHODS N64-26083 18-20

SYNTHESIZING OPTIMAL DISCRETE CONTROL IN AUTOMATIC CONTROL SYSTEMS USING POLYNOMIAL EQUATIONS
FTD-TT-64-333/1&4 N64-26120 18-20

OPTIMAL CONTROL WITH MINIMUM FUEL CONSUMPTION CRITERION FOR FOURTH ORDER PLANT WITH TWO CONTROL

INPUTS
NASA-CR-58124 N64-26373 18-29

SYNTHESIS OF OPTIMAL CONTROL PROCESS DESCRIBED BY LINEAR SYSTEM OF DIFFERENTIAL EQUATIONS
N64-26384 18-09

ALGORITHM OF PROBLEM OF DEFINITION OF OPTIMAL PARAMETERS OF CONTROL SYSTEMS BY GRADIENT METHOD
N64-26388 18-09

NUMERICAL METHOD OF SOLVING OPTIMAL CONTROL PROBLEMS
JPRS-25636 N64-26460 18-20

TIME-OPTIMAL CONTROL SYSTEMS AND AUTOMATIC OPTIMIZATION OF CONTROL CIRCUITS
FTD-TT-63-409/1&2 N64-26724 18-09

OPTIMAL CONTROL FUNCTIONS OF MINIMUM SETTLING TIME AND FUEL CONSUMPTION FOR SINGLE-AXIS ATTITUDE CONTROL SYSTEMS
ASME PAPER-62-JACC-6 N64-27175 19-06

TIME OPTIMAL CONTROL AND LINEARIZED COMPENSATION IN RELAY SERVOSYSTEMS
REPT.-644 N64-27194 19-09

CONJUGATE POINT CONDITION DERIVATION IN CALCULUS OF VARIATIONS FOR GENERAL CONTROL PROBLEM
TR-441 N64-27700 19-20

OPTIMUM AERODYNAMIC MANEUVER FOR CHANGE OF ORBITAL PLANE DURING NEAR-CIRCULAR ORBITS
N64-27977 20-02

MECHANICS OF COSMIC FLIGHT WITH PROPULSION SYSTEM LIMITATIONS OF POWER OR TIME - OPTIMAL CONTROL
N64-27988 20-27

ESSENTIAL CONDITIONS FOR OPTIMAL CONTROL IN BANACH SPACES
JPRS-26168 N64-28137 20-20

PROBLEMS IN STOCHASTIC SYSTEMS AND OPTIMAL CONTROL
JPRS-25874 N64-28343 20-23

REDUCTION OF ONE CLASS OF OPTIMUM CONTROL PROBLEMS TO SIMPLEST VARIATIONAL PROBLEM
N64-28345 20-23

SEPARATION THEOREM FOR DESIGN OF NAVIGATION AND GUIDANCE SUBSYSTEMS TO ACHIEVE OPTIMUM CONTROL
NASA-CR-58341 N64-28988 20-22

OPTIMUM CONTROL FACTORS FOR SINGLE-LOOP LINEAR CIRCUIT - DIGITAL COMPUTATION OF VARIANCE AND AVERAGE VALUES OF NONLINEAR CONTROL SYSTEMS
FTD-TT-63-387/1&2 N64-29322 21-09

OPTIMUM CONTROL FACTORS FOR SINGLE-LOOP LINEAR CONTROL CIRCUIT WITH CONCENTRATED STRUCTURAL ELEMENTS AND MINIMUM PHASES N64-29323 21-09

TIME-OPTIMAL CONTROL SYSTEM SYNTHESIS
NASA-CR-56798 N64-29361 21-06

OPTIMUM THRUST-CONTROL REGIMES FOR ROCKETS CONSIDERING EARTH MOTION
FTD-TT-64-615/1&3&4 N64-30109 21-27

DYNAMIC PROGRAMMING FOR DIRECT SOLUTION OF VARIATIONAL PROBLEMS OF OPTIMAL CONTROL
N64-30414 22-20

OPTIMAL MULTIPLICATIVE CONTROL SYSTEM
PIBMRI-1210-64 N64-30865 22-09

COMPUTER PROGRAM FOR ANALYSIS OF OPTIMAL REENTRY GUIDANCE
BR-3060-1 N64-30891 22-29

MATHEMATICAL EQUATIONS FOR OPTIMAL CONTROLLERS
ASD-TDR-63-239 N64-30925 22-09

OPTIMAL CONTROL WITH RANDOM LOADINGS
FTD-MT-64-20 N64-31882 23-20

EQUIVALENCE OF NECESSARY CONDITIONS FOR OPTIMAL CONTROL IN PROBLEMS WITH BOUNDED STATE VARIABLES
RM-3871-PR N64-32089 23-20

LOGICAL DESIGN OF SPECIAL PURPOSE ONBOARD DIGITAL COMPUTER FOR OPTIMUM THRUST CONTROL
NASA-CR-59077 N64-32989 24-27

HAMILTON JACOBI EQUATION - APPROACH FOR OPTIMUM CONTROL PROBLEM SOLVING
NASA-CR-58775 N64-33200 24-20

AUTOMATIC SYNTHESIS COMPUTER PROGRAM IN FORTRAN FOR OPTIMAL FILTERS AND OPTIMUM CONTROL SYSTEMS
NASA-CR-58829 N64-33222 24-20

ANALOG CIRCUITS FOR ENERGY AND FUEL OPTIMAL CONTROL OF LINEAR DISCRETE SYSTEMS
NASA-CR-59248 N64-33340 24-09

OPTIMIZATION STUDY OF MASS EXPULSION ATTITUDE CONTROL SYSTEM BY ADVANCED LIMIT CYCLE TECHNIQUES
NASA-CR-59377 N64-33901 24-06

ALGORITHM FOR DETERMINING OPTIMAL WAYS OF SCHEDULING MULTIPLE OPERATIONAL PROBLEMS
PMR-TM-63-6 N64-33986 24-20

OPTIMIZATION
SA BOLZA PROBLEM
OPTIMUM MICHELL FRAMEWORK FOR THREE COPLANAR FORCES
COA-167 N64-10274 01-23

RELIABILITY THEORY - MACHINE AND SYSTEMS OPTIMIZATION APPLICATION
JPRS-21923 N64-10353 01-17

OPTIMIZING OPERATION OF MAGNETOHYDRODYNAMIC GENERATORS
JPRS-17821 N64-10568 01-24

OPTIMUM FORM OF RADIATING FINS
JPRS-17512 N64-10691 02-23

OPTIMUM FORM FOR RADIATION-COOLED HEAT-CONDUCTING FINS N64-10692 02-23

IRRADIATION OF HEAT CONDUCTING FINS IN RELATION TO OPTIMUM FORM N64-10693 02-23

AIRCRAFT PRODUCTION RELIABILITY PROGRAM MANAGEMENT FOR OPTIMUM TIME & COST - CONTRACTOR-SUBCONTRACTOR RELATIONSHIP
EWR-104-63 N64-10973 02-20

SUCCESSIVE APPROXIMATION METHODS FOR SOLVING OPTIMALITY PROBLEMS
JPRS-17589 N64-11005 02-26

OPTIMIZATION OF AUTOMATA WITH PROGRAMMED CONTROL - GALVANIZING MACHINE
JPRS-19007 N64-11061 02-20

THERMAL DESIGN CONSIDERATIONS FOR OPEN-CYCLE FUEL CELL OPTIMIZATIONS
NASA-CR-52545 N64-11297 02-06

OPTIMUM PRODUCTION PROGRAMMING FOR MULTIPURPOSE EQUIPMENT
DVL-272 N64-11307 02-20

FLIGHT REGIMES AND PARAMETERS OF MULTISTAGE ROCKETS N64-11428 02-30

SELECTION OF OPTIMUM TYPE & CONFIGURATION OF PROPULSION SYSTEM FOR SUPERSONIC TRANSPORT
SAE-PAPER-586A N64-11434 02-27

APPLICATION OF THEORY OF OPTIMAL PROCESSES TO FUNCTION APPROXIMATION AND SOLUTION CONSTRUCTION - PONTRYAGIN PRINCIPLE APPLICATION
MH-TRANS-432 N64-11633 03-20

SPACE SYSTEM DESIGN OPTIMIZATION BASED ON HUMAN REQUIREMENTS DURING ACCELERATION
N64-11808 03-14

APPROXIMATE DESIGN OF RAPID ACTION SYSTEMS WITH AUTOMATIC OPTIMIZATION WHEN ALMOST PERIODIC

TENTATIVE & SEARCH SIGNALS ARE USED - CYBERNETICS
N64-12463 04-06

MOMENT PROBLEM IN NONLINEAR PROGRAMMING - OPTIMIZATION THEORY
SSD-TDR-63-178 N64-12686 04-20

OPTIMIZING RADAR STATION LOCATIONS IN RELATION TO SATELLITE TRACKING
SSD-TDR-63-24 N64-12708 04-10

VERTICAL ATMOSPHERIC TEMPERATURE AND PRESSURE PROFILES FOR FLIGHT PATH AND SPACING OPTIMIZATION
N64-12789 04-21

OPTIMIZATION OF 24-HOUR COMMUNICATION SATELLITE ORBITAL CONTROL PROCESS
RM-3255-NASA N64-12953 04-30

GRADIENT TECHNIQUE FOR DETERMINATION OF OPTIMUM STEERING PROGRAMS
TDR-269/4550-20/-1 N64-13842 05-29

OPTIMALITY FROM OPPOSITE SIGN THEOREM USED AS ALGORITHM IN EXTREME POINT SOLUTION
ONR MEMO-84 N64-13857 05-20

OPTIMUM CONFIDENCE BOUNDS FOR ROOTS OF DETERMINANTAL EQUATIONS - MATHEMATICS
CU-70-63 N64-13891 05-20

ORBITAL PLANE CHANGE BY AEROPROPULSIVE MANEUVERING - OPTIMIZATION PROCEDURE
ASD-TDR-63-693 N64-14103 05-29

N-DIMENSIONAL SEARCH AND OPTIMIZATION PROCEDURE - COMPUTER PROGRAM
SSD-TDR-63-324 N64-14174 06-20

STEEPEST-ASCENT METHOD FOR OPTIMIZATION OF TIME DEPENDENT FUNCTIONS & TIME INVARIANT QUANTITIES, FOR VEHICLE TRAJECTORY OPTIMIZATION
SSD-TDR-63-362 N64-14959 06-20

SAILPLANE DESIGN FOR OPTIMUM THERMAL SOARING PERFORMANCE
NASA-TN-D-2052 N64-14982 06-04

ANALOG COMPUTER OPTIMIZATION OF TRAJECTORIES - INTERPLANETARY TRANSFERS AND VERTICAL ASCENSION ROCKET BURNING TIME
REPT.-28 N64-15033 07-20

OPTIMUM BULBOUS SHIP HULL DESIGN FOR BOW AND STERN WAVE RESISTANCE
AD-429767 N64-15706 07-04

OPTIMUM CARBON BLACK FOR DEPOLARIZER BATTERIES
AD-430442 N64-15940 07-06

OPTIMIZATION OF CURVE OF INTENSITY OF X-RAY SCATTERING N64-16225 08-23

DYNAMICAL POLYSYSTEMS AND OPTIMIZATION
N64-16252 08-20

OPTIMIZATION OF SYSTEMS CONTAINING ESSENTIALLY NONLINEAR ELEMENTS
TIL/T-5464 N64-16263 08-20

OPTIMAL SOLUTION TO TRANSPORTATION PROBLEM - TRANSPORT THEORY
ONR-RM-86 N64-16863 08-20

OPERATIONS RESEARCH FOR OPTIMIZATION OF EXPERIMENT DESIGN
CIT-ORD-16-TR-10 N64-16890 08-20

RELIABILITY OF FLANGE CLOSURE AS FUNCTION OF FLANGE AND GASKET DESIGN FOR OPTIMUM PERFORMANCE IN HIGH VACUUM REGION
ORNL-3509 N64-17501 09-17

METHODS FOR SOLUTION OF VARIATIONAL PROBLEMS USING SUFFICIENT CONDITIONS FOR ABSOLUTE MINIMUM
MH-TRANS-427 N64-18051 10-20

OPTIMUM NOISE PERFORMANCE OF MULTITERMINAL AMPLIFIERS
AD-434781 N64-18382 10-09

OPTIMIZATION OF THERMODYNAMIC PROPERTIES AND WORKING CONDITIONS OF ENERGY TURBOCONVERTER
N64-18485 10-06

PERFORMANCE IMPROVEMENT OF SERVICE SYSTEMS THROUGH OPTIMAL PRIORITY CLASSIFICATION - STATISTICAL DECISION THEORY
ORC-63-29/RR/ N64-19054 11-20

TIME OPTIMIZATION OF TRANSITION FLIGHT OF VTOL AIRCRAFT
REPT.-5104-101/789 N64-19230 11-04

MAXIMUM PRINCIPLE - COMPUTATIONAL ASPECTS AND RELATIONS TO OTHER OPTIMIZATION TECHNIQUES
EUR-590.E N64-19320 12-20

INTEGRATED APPROACH TO STRUCTURAL SYNTHESIS AND ANALYSIS FOR OPTIMUM DESIGN N64-19369 12-33

COMPARISON OF OPTIMIZATION TECHNIQUES AS APPLIED TO SYSTEM ANALYSIS OF SINGLE AXIS SATELLITE ATTITUDE CONTROL
FDL-TDR-64-21 N64-19655 12-30

OPTIMIZATION OF FREQUENCY MULTIPLIER
QPR-2 N64-20111 13-15

OPTIMIZING FOR MINIMUM STEP RESPONSE TIME IN LINEAR SYSTEM WITH LIMITED CONTROL EFFORT
RES. PAPER-45 N64-20314 13-09

SCHEDULING INDEPENDENT TASKS ON ONE OR MORE DATA PROCESSORS FOR OPTIMUM COST
ITR-2 N64-20403 13-20

OPTIMUM FLOW TEMPERATURE, FLIGHT VELOCITY, AND OTHER PARAMETERS OF SUPERSONIC RAMJET ENGINE WITH HEAT EXCHANGER
TIL/T-5396 N64-20867 14-26

OPTIMIZATION OF SIGNAL WAVEFORMS USING PONTRYAGIN PRINCIPLE
ESD-TDR-64-18 N64-20902 14-08

ONE AND TWO IMPULSE ORBITAL TRANSFER - OPTIMAL N-IMPULSE PROBLEM INCLUDING COPOLAR ELLIPTICAL ORBITS
SPEC. REPT.-4 N64-20956 14-29

OPTIMIZATION OF SEQUENTIAL SIGNAL DETECTION
AD-433124 N64-21065 14-08

OPTIMIZATION OF VELOCITY INERTIAL NAVIGATION SYSTEM
AD-600140 N64-21098 14-22

OPTIMIZATION OF CHARGE-TO-METAL RATIOS IN WARHEADS WITH FIXED WEIGHT OR FIXED VOLUME LIMITATIONS
NAVWEPS-8471 N64-21174 14-01

OPTIMIZATION OF HIGH POWER STATIC INVERTERS AND CONVERTERS - TRANSISTOR AND SILICON CONTROLLED INVERTER CIRCUITS
NASA-CR-42 N64-21419 14-09

OPTIMIZATION OF ANTENNA SYSTEMS BY EXTENSION OF TEMPORAL INFORMATION THEORY TO SPACE-TIME DOMAIN
AD-600479 N64-21454 14-09

OPTIMIZED DIGITAL AUTOMATIC MAP COMPILATION SYSTEM
IR-3 N64-21522 15-20

OPTIMIZATION OF POLE SENSITIVITY IN ACTIVE RC NETWORK
EE-569 N64-21525 15-09

OPTIMIZATION OF RECEIVER AND ENCODER FOR UNKNOWN SIGNAL WAVEFORMS IN MULTIPATH COMMUNICATIONS
USCEE-104 N64-21778 15-08

DISCONTINUOUS VARIATIONAL PROBLEMS & OPTIMAL FLIGHT OF MULTISTAGE ROCKETS
RM-162 N64-21838 15-29

EFFECT OF SIGNAL SHAPE ON MAXIMUM PROBABILITY OF DETECTION DURING CORRELATED NOISE

FTD-TT-64-439/1&4 N64-22162 15-08

INTERFERENCE REDUCTION TECHNIQUES FOR OPTIMIZATION OF EMISSION SPECTRUM FOR NONLINEAR ELECTRONIC MODULE
REPT.-64-SIMAR-27/2 N64-22213 15-09

OPTIMUM PERFORMANCE OF BUFFERED SHOCK TUBES
ARL-64-41 N64-22311 15-11

OPTIMUM COMPOSITION OF GASEOUS MIXTURES CONTAINIG EASILY IONIZABLE ADDITIVE
FTD-TT-62-1893/1&2&4 N64-22408 15-24

REPRESENTING VALUES OF OPTIMAL NONUNIFORM CODES ON MASKS OF CATHODE-RAY DECODING TUBES
FTD-TT-61-461/1&2&4 N64-22411 15-09

STRUCTURAL SYNTHESIS - AUTOMATED OPTIMUM DESIGN USING LOGICAL DECISIONS BASED ON STORED TECHNOLOGY DATA
NASA-CR-56480 N64-22422 15-34

OPTIMUM LAUNCHING OF BODY INTO HYPERBOLIC ORBIT BY TWO UNEQUAL IMPULSES
PIBAL-824 N64-22680 15-29

OPTIMIZATION OF DIFFUSER SHAPES
N64-23489 16-11

OPTIMUM ACCLERATION OF ELECTRIC MOTOR FOR PROGRAMMED CONTROL SYSTEMS N64-23537 16-09

OPTIMAL MODE OF HORIZONTAL FLIGHT FOR AIRCRAFT
N64-23557 16-02

OPTIMUM GEOMETRIC PARAMETERS OF AIRCRAFT DESIGN AND CONSTRUCTION
FTD-TT-62-1717/1 N64-24263 17-02

SYNTHESIS OF OPTIMUM LINEAR FILTRATION SYSTEMS
FTD-TT-63-1108/1&2&4 N64-24280 17-06

OPTIMIZATION OF ANTENNA SYSTEM FOR MEASUREMENT OF RADAR REFLECTION PROPERTIES N64-24291 17-08

PROGRAMMING - OPTIMIZATION OF MACHINE SEARCH
N64-24697 17-20

OPTIMUM TRANSFER FUNCTION FOR AUTOMATIC CONTROL SYSTEM N64-24702 17-20

OPTIMIZATION CRITERION OF BINARY STATISTICAL DECISION THEORY APPLIED TO PARAMETERS OF SIGNAL AND DISTORTION DISTRIBUTION
E-T-P-64-3 N64-25076 17-23

ASYMPTOTIC PERFORMANCE CHARACTERISTICS FOR OPTIMUM BINARY DATA-HANDLING SYSTEMS
NASA-CR-56784 N64-25494 17-09

OPTIMUM CONDITIONS FOR OBTAINING PLUTONIUM TRACER FROM NATURAL URANIUM IN CYCLOTRON
N64-25557 17-07

DYNAMIC PROGRAMMING - RECURSION FORMULATION OF OPTIMIZATION PROBLEMS
RADC-TDR-64-10 N64-25637 17-29

OPTIMIZING RECOVERY OF INTERPLANETARY SPACECRAFT THROUGH EARTH ATMOSPHERE
VKI-TN-17 N64-25796 17-30

OPTIMUM SETTING OF RATE SWITCH - STRUCTURAL LOADING AND INADVERTENT SWITCHOVER CONSIDERATIONS
LV-351 N64-25955 18-33

EQUATIONS FOR THRUST-ALTITUDE-PITCH PROGRAM TO MINIMIZE PROPELLANT CONSUMPTION FOR SPACECRAFT ASCENDING IN VACUUM
SSD-TDR-64-120 N64-26229 18-29

OPTIMAL SOLUTIONS FOR GAMES WITH BLUFFING AND HIGH SPEED CONTROL
JPRS-25221 N64-26300 18-20

OPTIMIZATION OF MANUFACTURING PROCESS USING SET OF MACHINES N64-26379 18-17

OPTIMUM SELECTION OF MULTISTAGE ROCKET
NASA-TT-F-8917 N64-26768 18-31

OPTIMUM COPLANAR FLIGHT BETWEEN ORBITS ACCOUNTING FOR INNER RESERVE MASS PROPORTION TO FLIGHT TIME
NASA-TT-F-8928 N64-26929 18-29

PROCESS OPTIMIZATION WHEN SOLVING PROBLEMS OF SYNTHESIS OF DISCRETE AUTOMATA N64-27165 19-20

OPTIMUM SIGNAL DESIGN FOR TRANSMISSION THROUGH GAUSSIAN TIME-VARYING MULTIPATH MEDIA
AFCRL-64-485 N64-27438 19-08

OPTIMIZATION OF CHROMIUM-TITANIUM-SILICON COATING PROCESS FOR LABORATORY AND PILOT SCALE COATING FURNACES
ASD TDR-62-934, PT. II N64-27476 19-18

ADAPTIVE TECHNIQUES FOR OPTIMIZATION OF BINARY DETECTION SYSTEMS
REPT.-22G-2 N64-28146 20-08

DIAGNOSING SYSTEMS BY CONSTRUCTING SCALE MODELS USING MULTIPARAMETER OPTIMIZATION
N64-28348 20-09

SUFFICIENT CONDITION FOR DERIVING AND OPTIMIZING DYNAMIC PROGRAMMING METHODS
JPRS-26273 N64-28429 20-20

PARAMETER OPTIMIZATION IN VARIATIONAL CALCULUS AND TIME OF FLUCTUATION ESCAPE OF DYNAMIC SYSTEM FROM GIVEN FIELD
JPRS-25752 N64-28437 20-20

OPTIMIZATION OF MULTISTAGE ROCKETS
FTD-TT-63-427/1&2&4 N64-28527 20-31

CALCULATION OF OPTIMUM INCIDENCES FOR AIRFOILS IN CASCADES
ARC-CP-646 N64-28986 20-03

OPTIMIZATION OF HIGH POWER STATIC INVERTERS AND CONVERTERS
NASA-CR-54122 N64-29360 21-06

OPTIMAL GRAPHING FOR MACHINE TOOLS PROCESSING VARIETIES OF PARTS - PRODUCTION EFFICIENCY
N64-29744 21-20

NUMERICAL OPTIMIZATION BASED ON NATURAL EVOLUTION PROCESSES APPLIED TO LINEAR PROGRAMMING PROBLEMS
AD-602903 N64-29764 21-20

OPTIMIZATION THEORY OF EARTH ASCENT TRAJECTORY OF SPACE VEHICLE APPLIED TO ROCKETS AND STATOREACTORS
N64-29780 21-27

OPTIMIZATION OF COPLANAR FLIGHT BETWEEN ORBITS
NASA-TT-F-221 N64-30076 21-29

OPTIMUM CRITICAL OPERATING PARAMETERS FOR NONISOBARIC MOTOR WITH DIVERGENT NOZZLE
FTD-TT-64-497/1&2&3&4 N64-30121 21-27

OPTIMUM PERIOD BETWEEN PREVENTIVE MAINTENANCE SERVICING FOR AUTOMATIC SYSTEMS
N64-30212 22-20

OPTIMUM MAINTENANCE RULE PROVIDING MINIMUM AVERAGE LOSSES IN SYSTEM WITH RESERVE BLOCKS
N64-30213 22-20

METHODS OF DESIGN OPTIMIZATION FOR MULTISTAGE ROCKETS N64-30417 22-21

OPTIMIZATION OF LARGE SCALE NUCLEAR MAGNETOPLASMADYNAMIC GENERATORS
N64-30447 22-24

OPTIMIZATION OF PALMGREN-MINER DETERMINATIONS OF CUMULATIVE FATIGUE DAMAGE
NASA-RP-310 N64-30606 22-33

OPTIMUM SHAPE OF SYMMETRICAL BEAM FOR MAXIMUM FUNDAMENTAL FREQUENCY-TO-MASS RATIO
SM-47674 N64-31185 22-34

TIME-VARYING LINEAR SYSTEMS - OPTIMIZATION
EE-559 N64-31187 22-08

OPTIMUM PRIORITY ASSIGNMENT FOR PROCESSING RANDOM ARRIVALS ON SHARED COMPUTER SYSTEM
REPT.-04967-2-T N64-32507 23-20

OPTIMIZATION CRITERIA FOR AUTOMATIC COMPUTER AND CONTROL SYSTEMS
FTD-TT-63-1107/1&2&4 N64-32811 24-09

ERROR ANALYSIS OF ORBITAL PARAMETERS - PARAMETER OPTIMIZATION
NASA-CR-58781 N64-33181 24-29

OPTIMAL PERSONNEL SELECTION BASED ON RELATIVE RANK AND RANDOM APPEARANCE
CU-47-64-NONR-266/59/MS N64-33293 24-20

OPTIMUM THRUST PROGRAMMING
OPTIMUM THRUST PROGRAMMING FOR LUNAR SOFT LANDING
SSD-TDR-63-309 N64-14781 06-29

OPTIMUM RETRO-THRUST IN GRAVITATIONAL FIELD
AIAA PAPER-64-50 N64-14851 06-29

OPTIMUM THRUST PROGRAMMING TO DETERMINE COMPOSITION OF MULTICOMPONENT PROPELLANTS - IBM 7090 AND 7094 COMPUTER PROGRAM
U-2502 N64-19414 12-20

CONSTANTS OF MOTION FOR OPTIMUM THRUST TRAJECTORIES IN CENTRAL FORCE FIELD
N64-20954 14-29

OPTIMAL RETROTHRUST IN GRAVITATIONAL FIELD
REPT.-1 N64-20955 14-29

ORBIT
SA CIRCULAR ORBIT
SA EARTH ORBIT
SA ELECTRON ORBIT
SA ELLIPTICAL ORBIT
SA EQUATORIAL ORBIT
SA HELIOCENTRIC ORBIT
SA HYPERBOLIC ORBIT
SA LARMOR ORBIT
SA LUNAR ORBIT
SA MOLECULAR ORBIT
SA PARKING ORBIT
SA PERIODIC ORBIT
SA PLANETARY ORBIT
SA POLAR ORBIT
SA SPACECRAFT ORBIT
SA STATIONARY ORBIT
SA TRANSFER ORBIT
SA TROJAN ORBIT
SA TWENTY-FOUR HOUR ORBIT
THEORY OF CONDUCTIVITY PROBE - MASS OF COLLIDING PARTICLES AND ORBITS OF IONS & NEUTRAL PARTICLES
NASA-CR-55101 N64-12401 03-24

OBJECTIVES, METHODS, RESULTS, AND CONCLUSIONS OF BALLISTIC AND ORBITAL MERCURY FLIGHTS /MR-2 AND MA-5 FLIGHTS/ WITH CHIMPANZEES
NASA-SP-39 N64-12915 04-16

ORBIT RAISING BY LOW THRUST PROPULSION IN CONTINUOUS SUNLIGHT
NASA-TN-D-2072 N64-18078 10-29

REGULATION IN ORBIT - ADMINISTRATIVE ASPECTS OF COMMUNICATIONS SATELLITE ACT AND SPACE LAW
N64-21142 14-01

EARTH-TO-ORBIT TRANSPORTATION ECONOMICS BASED ON AVAILABLE AND APPROVED LAUNCH VEHICLES OF NATIONAL BOOSTER PROGRAM
AIAA PAPER-64-278 N64-25071 17-30

ECLIPSE FRACTIONS FOR SUN-SYNCHRONOUS ORBITS
SSD-TDR-64-100 N64-26200 18-29

OPTIMUM COPLANAR FLIGHT BETWEEN ORBITS ACCOUNTING FOR INNER RESERVE MASS PROPORTION TO FLIGHT TIME
NASA-TT-F-8928 N64-26929 18-29

COPLANARITY OF ORBITS OF MULTIPLE STARS
N64-28380 20-29

ADVANCED MISSION ANALYSIS STUDY OF LUNAR TRAJECTORIES, GUIDANCE SYSTEMS, AND ORBIT DETERMINATION
NASA-CR-50435 N64-33134 24-29

ERROR ANALYSIS OF ORBITAL PARAMETERS - PARAMETER OPTIMIZATION
NASA-CR-58781 N64-33181 24-29

VEHICLE RANGE EXTRACTION UNIT FOR AUTOMATIC RANGING & ORBIT DETERMINATION SYSTEM
NASA-CR-58885 N64-33204 24-08

ORBIT CALCULATION
SA MINIMUM VARIANCE ORBIT DETERMINATION /MINIVAR/
SET THEORY TREATMENT OF PLANAR ORBITS AND TRAJECTORIES
NASA-CR-52227 N64-10094 01-20

OBLATE SPHEROIDAL METHOD FOR SATELLITE ORBITS - GRAVITATIONAL POTENTIAL & PERTURBING POTENTIAL
N64-10304 01-12

OBSERVATIONS OF MINOR PLANETS, COMETS, ECLIPSING BINARY STARS, AND DOUBLE STARS - ORBIT MEASUREMENT
N64-10321 01-05

COMPUTATION PROCEDURE FOR BEHAVIOR OF LAPLACE COEFFICIENTS AND NEWCOMB DERIVATIVES - APPLICATION TO PLANETARY DISTURBING FUNCTION
NASA-CR-52537 N64-10437 01-20

PRECISION TRACKER FOR DIRECTING HORN-REFLECTOR ANTENNA, LOCATING SATELLITE, AND TO PROVIDE DATA FOR ORBIT PARAMETER PREDICTION N64-10889 02-08

COMPUTER PROGRAM FOR ORBIT DETERMINATION AND PREDICTION, AND EPHEMERIS CALCULATION
N64-10890 02-26

MINIMUM VARIANCE PRECISION TRACKING AND ORBIT PREDICTION PROGRAM
NASA-CR-52872 N64-11329 02-29

ORBIT CALCULATION FROM TWO GIVEN POSITIONS - SATELLITE GUIDANCE N64-11425 02-29

INSTRUCTION MANNUAL FOR TRAJECTORY AND ORBIT
R-418-PR N64-11747 03-22

TRAJECTORIES, ORBITAL CALCULATIONS, AND ADAPTIVE GUIDANCE
NASA-TM-X-51074 N64-12102 03-22

ADVANCED OXIDIZER MOLECULAR ORBIT CALCULATIONS AND NONBONDED INTERACTIONS IN POLYATOMIC MOLECULES
S-13892 N64-12819 04-26

CALCULATOR FOR APPROXIMATING GROUND TRACKS OF SATELLITES IN NEAR CIRCULAR ORBITS
RM-3741-PR N64-14085 05-29

ERROR PROPAGATION IN ORBIT DETERMINATION - MATHEMATICAL ANALYSIS
WDL-TR-1943, VOL. 3 N64-14093 05-29

HANSEN THEORY OF SATELLITE ORBIT CALCULATION AS MODIFIED BY MUSEN
NASA-TR-R-147 N64-14437 06-20

REAL TIME TRACKING & ORBIT PREDICTION PROGRAM FOR CIRCULAR, ELLIPTICAL, & HYPERBOLIC ORBITS WITH PERTURBATION FORCES
NASA-TM-X-51488 N64-14743 06-29

INERTIAL ACCELEROMETERS FOR ATTITUDE ERROR SIGNAL AND ORBITAL SHAPE AND SIZE DETERMINATIONS
N64-15259 07-22

GRAPHS FOR CIRCULAR AND TRANSFER ORBITS UP TO 40,000-KN. ALTITUDE
NASA-TM-X-54563 N64-15863 07-29

DIGITAL SIMULATION OF ORBIT CALCULATION SYSTEM
PUBL. 552-A-30 N64-17809 09-29

RECTIFICATION PROCESS CONCERNED WITH OBSERVATION OF ACCURACY IN COMPUTATION OF OSCULATING ORBIT
N64-18235 10-29

APPLICATION OF CELESTIAL MECHANICS TO ARTIFICIAL SATELLITE ORBIT CALCULATIONS USING ORBIT PERTURBATIONS
NASA-TM-X-51584 N64-18473 10-05

OPERATIONAL COMPUTING PROGRAM FOR ORBIT DETERMINATION BASED ON SCHMIDT-KALMAN MINIMUM VARIANCE TECHNIQUE FOR PROCESSING TRACKING DATA
NASA-CR-53866 N64-19793 12-29

ORBITAL CALCULATION ERROR ANALYSIS - INERTIAL NAVIGATION COMPUTATION, FIRST ORDER ORBITAL ERROR ANALYSIS, AND SECOND ORDER GRAVITATIONAL EFFECTS
SMFD-2-1 N64-19861 12-29

STANDARDIZATION OF CONSTANTS AND EPHEMERIS DATA FOR TRAJECTORY AND ORBIT CALCULATIONS
NASA-CR-53921 N64-19897 12-29

DETERMINATION OF MEAN ORBITAL ELEMENTS FOR VINTI SATELLITE THEORY
NASA-TN-D-2312 N64-21425 14-08

CELESTIAL MECHANICS - SURVEY OF SATELLITE ORBIT COMPUTATION METHODS
ESD-TDR-63-477 N64-21679 15-29

INTERMEDIATE ORBITS OF SATELLITES - ANALYTICAL EXPANSIONS FOR COSMIC COORDINATES OF SATELLITES
N64-23853 16-29

INTERMEDIATE ORBITS OF SATELLITES WITH SMALL ECCENTRICITY N64-23854 16-29

LUNAR SATELLITE TRACKING AND ORBIT CALCULATION
NASA-CR-56279 N64-23944 16-32

SHORT ARC ORBIT DETERMINATION FOR ANNA SATELLITE
AFCRL-64-273 N64-25591 17-32

SYMMETRIC DOUBLY ASYMPTOTIC ORBITS IN RESTRICTED THREE-BODY PROBLEM
DI-82-0337 N64-25887 18-29

ORBIT SELECTION FOR SOLAR PROBE SPACECRAFT
AIAA PAPER-64-646 N64-27673 19-29

MATHEMATICS OF ORBIT CALCULATION
NASA-TM-X-55055 N64-28741 20-29

COMPUTER PROGRAMMING ANALYSIS FOR ORBIT DETERMINATION BASED ON MINIMUM VARIANCE TECHNIQUE FOR PROCESSING TRACKING DATA
NASA-TM-X-51928 N64-28830 20-29

ORBIT CALCULATION FOR LUNAR SATELLITE FROM MINIMUM NUMBER OF RADAR RANGE, RADAR RANGE-RATE, AND OPTICAL OBSERVATIONS
NASA-CR-58450 N64-28994 20-29

COMPUTATION OF ORBITS AND EPHEMERIDES OF NEAR EARTH SATELLITES N64-29105 21-08

VEHICLE MASTER OSCILLATOR & FREQUENCY SYNTHESIZER FOR AIRBORNE RANGE & ORBIT DETERMINATION SYSTEM
NASA-CR-58698 N64-29505 21-08

COMPUTER PROGRAM FOR SATELLITE ORBIT CALCULATION AND POSITION PREDICTION
SP-1665 N64-30137 21-29

COMPUTING SATELLITE POSITION IN LOW-INCLINATION, LOW-ECCENTRICITY ORBITS INCLUDING OBLATE-EARTH CAUSED PERTURBATIONS
ESD-TDR-63-443 N64-31966 23-29

LINEAR EQUATION FOR ALTITUDE ERROR IN LUNAR TRANSFER ORBIT CALCULATION
NASA-TN-D-1837 N64-32401 23-29

DIFFERENTIAL ORBIT IMPROVEMENT AND ORBIT ANALYSIS COMPUTER PROGRAM
NASA-CR-59138 N64-33049 24-29

INTEGRATION CONSTANTS FOR ORBIT CALCULATIONS DETERMINED FROM SHORT ARCS - BAKER-NUNN OBSERVATIONS OF ECHO
NASA-TM-X-55080 N64-33623 24-29

ORBIT EQUATION
RAPIDLY CONVERGING EXPANSION OF EULER-LAMBERT EQUATION FOR FLIGHT ORBITS
NASA-TT-F-8561 N64-24907 17-32

EQUATIONS FOR CONVERTING TO GEOCENTRIC COORDINATES FROM GEODETIC COORDINATES
TG-511 N64-31173 22-12

ORBIT PERTURBATION
LUNISOLAR EFFECT ON PERTURBATIONS OF NOMINALLY GEOSTATIONARY SATELLITES
RAE-TN-SPACE-47 N64-13339 04-29

DETERMINATION OF EARTH GRAVITATIONAL FIELD AND ANOMALIES BY GRAVIMETRY, SATELLITE ORBIT PERTURBATIONS, & ASTROGEODESY
NASA-RP-132 N64-15667 07-12

OUT-OF-PLANE MOTION OF CIRCULAR SATELLITE ORBIT
NASA-CR-53088 N64-16740 08-29

SYNCHRONOUS METEOROLOGICAL SATELLITE STUDY - ATTITUDE & ORBIT CONTROL AND STATIONKEEPING
NASA-CR-55929 N64-17698 09-06

APPLICATION OF CELESTIAL MECHANICS TO ARTIFICIAL SATELLITE ORBIT CALCULATIONS USING ORBIT PERTURBATIONS
NASA-TM-X-51584 N64-18473 10-05

CELESTIAL MECHANICS - ORBIT PERTURBATION STUDY BY KRYLOV-BOGOLIUBOFF-MITROPOLSKI METHOD
AFOSR-64-0132 N64-21681 15-05

EARTH OBLATENESS AND SUN AND MOON GRAVITATION EFFECTS ON SATELLITE ORBIT PERTURBATIONS
RAE-TN-SPACE-52 N64-23268 16-29

ALGORITHM FOR POSITION AND VELOCITY COORDINATES OF ZONAL HARMONIC PERTURBATIONS OF ACCURATE REFERENCE ORBIT USING VINTI THEORY
NASA-TM-X-55021 N64-27255 19-23

PARTICLE COORDINATES AND PARTICLE MOTION AS COLLECTIVE COORDINATES FOR LINEAR TRANSFORMATION OF DEVIATION FROM UNPERTURBED ORBIT
LP-36 N64-30490 22-24

PERTURBATION THEORY OF NEAR-EARTH SATELLITES
AFCRL-64-566/III/ N64-30945 22-29

PERTURBATION EFFECTS ON SATELLITE ORBIT PARAMETERS DUE TO ZONAL GRAVITATIONAL HARMONICS
AFCRL-64-566/V/ N64-30947 22-29

COMPUTING SATELLITE POSITION IN LOW-INCLINATION, LOW-ECCENTRICITY ORBITS INCLUDING OBLATE-EARTH CAUSED PERTURBATIONS
ESD-TDR-63-443 N64-31966 23-29

ORBITAL CALCULATION
LIBRATION MECHANISM OF CLOSE APPROACHES OF PLUTO TO NEPTUNE - ORBITAL CALCULATIONS FOR FIVE OUTER PLANETS
NWL-1945 N64-32342 23-05

ORBITAL ELEMENT
SATELLITE SITUATION REPORT - NAME, SOURCE, LAUNCH DATE, NODAL PERIOD, INCLINATION, APOGEE, PERIGEE, AND TRANSMITTING FREQUENCY
NASA-TM-X-51120 N64-10337 01-32

ORBITAL ELEMENT THEORIES FOR DRAG-FREE EARTH SATELLITES
RAE-TN-SPACE-42 N64-10403 01-29

DESIGN REQUIREMENTS FOR COMMUNICATIONS SATELLITE SYSTEMS OF RANDOM OR STATIONARY ORBITS
NASA-CR-52393 N64-10618 01-08

SATELLITE OBSERVATIONS - ACCURACY IN TIME SIGNALS AND ORBITAL ELEMENTS
JPRS-20127 N64-10838 02-01

ACCURACY OF OBSERVATIONS OF ORBITAL ELEMENTS BY SPUTNIK IV SATELLITE N64-10840 02-32

ORBITAL ELEMENT, POWER LEVEL OF SATELLITE SIGNAL,

& ELECTRICAL CIRCUIT BEHAVIOR OF TELSTAR SATELLITE IN SPACE ENVIRONMENT N64-10894 02-29

SATELLITE SITUATION - SOURCE, LAUNCH DATE, ORBITAL ELEMENT, & TRANSMITTING FREQUENCY
NASA-TM-X-51205 N64-11107 02-32

ORBITAL ELEMENTS OF SELECTED SATELLITES
NASA-CR-55851 N64-16720 08-32

ORBITAL ELEMENTS FOR EXPLORER AND VANGUARD SATELLITES AND ECHO I SATELLITE
NASA-CR-55853 N64-16721 08-32

PROGRAMMING OF DIFFERENTIAL CORRECTION TO ORBITAL ELEMENTS AND STATION POSITIONS
AFCRL-64-55 N64-19417 12-29

DETERMINATION OF MEAN ORBITAL ELEMENTS FOR VINTI SATELLITE THEORY
NASA-TN-D-2312 N64-21425 14-08

SATELLITE SITUATION REPORT
NASA-TM-X-51694 N64-23933 16-31

COMPUTER PROGRAM FOR LEAST SQUARES METHOD OF DETERMINING ORBITAL ELEMENTS
NASA-CR-56565 N64-24123 16-20

ORBITAL ELEMENTS FOR ACTIVE EXPERIMENT LIFETIME OF EXPLORER XVII SATELLITE TO DETERMINE ATMOSPHERIC DENSITY AT PERIGEE
NASA-RP-218 N64-25731 17-12

ROCKETS IN ORBIT
FTD-TT-64-536/1&4 N64-26164 18-29

TABULATED DATA ON ORBITAL ELEMENTS - SATELLITE OBSERVATION
NASA-TM-X-51869 N64-26576 18-32

PRELIMINARY ORBITAL ELEMENTS OF SATELLITES AND INTERCONTINENTAL BALLISTIC MISSILES
N64-27205 19-29

PERTURBATION OF ALOUETTE B SATELLITE ORBIT
NASA-TM-X-55053 N64-27260 19-32

ORBITAL ELEMENTS AND PHYSICAL PROPERTIES OF PERIODIC COMETS
NASA-CR-58544 N64-28524 20-05

SATELLITES IN ORBIT - LAUNCH DATE, NODAL PERIOD, APOGEE, PERIGEE, AND TRANSMITTING FREQUENCY
NASA-TM-X-51909 N64-28763 20-32

SATELLITE ORBIT INFORMATION
NASA-TM-X-55044 N64-28896 20-29

CHANGES IN ORBITAL ELEMENTS OF STATIONARY SATELLITES DUE TO METEOR IMPACT
N64-28944 20-29

COMPUTER PROGRAM FOR COMPUTATION OF ORBITAL ELEMENTS
K-37/64 N64-30185 21-29

ORBITAL ELEMENTS IN 1963 FOR EXPLORER, VANGUARD, AND ECHO SATELLITES
NASA-CR-58842 N64-33118 24-08

ORBITAL ELEMENTS IN 1962 FOR VANGUARD, EXPLORER, TRANSIT, INJUN, MIDAS, AND TELSTAR SATELLITES AND FOR ECHO I CARRIER ROCKET - EPHEMERIDES
NASA-CR-58841 N64-33182 24-08

ORBITAL ELEMENTS AND EPHEMERIDES FOR ANNA, ECHO, EXPLORER, GEOPHYSICAL, INJUN, RELAY, TELSTAR, AND VANGUARD SATELLITES
NASA-CR-59294 N64-33334 24-29

ORBITAL RENDEZVOUS
LAUNCH VEHICLE PERFORMANCE REQUIREMENTS FOR RENDEZVOUS WITH SATELLITES IN CIRCULAR ORBIT
SSD-TDR-63-320 N64-16651 08-29

OPERATOR PERFORMANCE STUDY IN ORBITAL RENDEZVOUS TASK USING PREDICTOR DISPLAY
AMRL-TDR-64-55 N64-27445 19-14

IN-PLANE RENDEZVOUS FROM INNER CIRCULAR PARKING ORBIT TO OUTER CIRCULAR TARGET ORBIT
TDR-269/4550-10/-7 N64-29796 21-29

ORBITAL TRANSFER
SA HOHMANN ORBITAL TRANSFER
ORBITAL TRANSFER OF SATELLITE SYSTEMS IN CIRCULAR ORBITS
TDR-269/4526-20/-1 N64-12187 03-29

ORBITAL TRANSFER OF ROCKET HAVING MOMENTUM, THRUST AND WEIGHT LOSS AT CONSTANT RATE WITH MINIMUM FUEL CONSUMPTION
AD-425513 N64-12328 03-29

SPACE VEHICLE DYNAMICS - OPTIMAL CONTROL OF TRANSFER TIME N64-13338 04-29

ORBITAL PLANE CHANGE BY AEROPROPULSIVE MANEUVERING - OPTIMIZATION PROCEDURE
ASD-TDR-63-693 N64-14103 05-29

TRAJECTORY PARAMETERS FOR ESCAPING FROM & BRAKING INTO EARTH ORBIT UTILIZING SINGLE VEHICLE STAGE WITH HIGH SPECIFIC IMPULSE
NASA-TM-X-53002 N64-15623 07-27

ORBITAL TRANSFER OF SATELLITE FROM 200-KM CIRCULAR ORBIT TO TWENTY-FOUR HOUR EQUATORIAL ORBIT UNDER OPTIMAL CONDITIONS - PROPULSION SYSTEM
DFL-205 N64-16202 08-06

PROPULSION SYSTEM REQUIREMENTS FOR CIRCULAR ORBIT PLANE CHANGE WITH AND WITHOUT AUXILIARY AERODYNAMIC FORCES
SSD-TDR-63-366 N64-17898 10-29

ATTITUDE CONTROL OF MANNED SPACECRAFT PERFORMING ORBITAL TRANSFER, RENDEZVOUS, & LIFTING REENTRY MANEUVERS
FDL-TDR-64-32 N64-20084 13-30

APPLICATION OF HIGH MOMENT-PRODUCING TECHNIQUES FOR ATTITUDE CONTROL OF MANNED SPACECRAFT PERFORMING ORBITAL TRANSFER AND LIFTING REENTRY
FDL-TDR-64-32, SUMMARY N64-20149 13-30

ONE AND TWO IMPULSE ORBITAL TRANSFER - OPTIMAL N-IMPULSE PROBLEM INCLUDING COPOLAR ELLIPTICAL ORBITS
SPEC. REPT.-4 N64-20956 14-29

APPROXIMATE ANALYSIS OF OPTIMUM LOW THRUST TRANSFER BETWEEN COPLANAR HYPERBOLIC ORBITS
VKI-TN-15 N64-23675 16-22

COST ESTIMATE OF ONE-MAN SHUTTLE VEHICLE FOR SPACE TRANSFER AND MAINTENANCE
RTD-TDR-63-4057, ADDEND. N64-25872 18-01

ORBITAL TRANSFER DURING ATMOSPHERIC REENTRY - AXISYMMETRIC OSCILLATIONS OF CYLINDRICAL SHELLS IN SUPERSONIC GAS FLOW
FTD-MT-63-220 N64-28171 20-23

TRANSFER OF SPACE VEHICLE FROM BRAKING ELLIPTICAL ORBIT TO CIRCULAR SATELLITE ORBIT
N64-28172 20-29

OPTIMIZATION OF COPLANAR FLIGHT BETWEEN ORBITS
NASA-TT-F-221 N64-30076 21-29

ORBITAL VELOCITY
NUCLEAR ROCKET TESTING FOR SUBORBITAL, ORBITAL, & ESCAPE VELOCITIES - SAFETY, FLIGHT SEQUENCES, & NUCLEAR HAZARD
LMSC-A303791 N64-11887 03-27

INSTRUMENTATION EVALUATION AND OBSERVATION OF PHENOMENA ASSOCIATED WITH ATMOSPHERIC REENTRY AT ORBITAL VELOCITIES
AFSWC-TDR-63-58 N64-12937 04-30

EXOSPHERIC DRAG OF MARS AS CAUSE OF ORBITAL ACCELERATIONS OF SATELLITE
RM-3939-PR N64-14012 05-29

ORBITAL WORKER
CF ASTRONAUT

CF SPACE MAINTENANCE
FEASIBILITY OF MAINTAINING ORBITING SPACECRAFT USING ORBITAL WORKERS AND SPECIAL REPAIR VEHICLES
NASA-CR-55072 N64-12163 03-30

ORBITING GEOPHYSICAL OBSERVATORY /OGO/
S OGO

ORBITING RADIO BEACON IONOSPHERIC SATELLITE
SATELLITE BORNE ORBIS BEACON FOR INVESTIGATING IONOSPHERIC DUCTING
AFCRL-64-29 N64-16804 08-12

ORBITING SATELLITE
FEASIBILITY OF THERMAL ENERGY STORAGE FOR ORBITING SOLAR SPACE POWER SYSTEMS
WADD-TR-61-118 N64-16788 08-06

SATELLITE LIBRATION ON ELLIPTIC ORBIT
RM-3632-PR N64-16791 08-29

COMPUTER PROGRAM FOR DETERMINING IMPINGING RADIATION HEAT LOADS AND TRANSIENT TEMPERATURES OF ORBITING SATELLITES
NASA-CR-56278 N64-22466 15-13

ASTRONAUTICS - ROCKET MOTION, NUCLEAR FUELS, ORBITING ARTIFICIAL SATELLITES, PLASMA ENGINES
FTD-TT-61-123/1&2&3&4 N64-23395 16-01

COMPUTER PROGRAM TO PREDICT SURFACE TEMPERATURES OF ORBITING SATELLITE
NASA-CR-56277 N64-27901 20-29

INFLUENCE OF PERTURBING FORCES ON TRACKING OF ORBITING SATELLITE
NASA-CR-58248 N64-28936 20-08

ORBIT DATA AND TRANSMITTING FREQUENCIES FOR CURRENTLY ORBITING SATELLITES
NASA-TM-X-54783 N64-33046 24-32

ORBIT DATA AND TRANSMITTING FREQUENCIES FOR CURRENTLY ORBITING SATELLITES
NASA-TM-X-51984 N64-33175 24-32

PARAMETRIC STUDY AND COMPUTER PROGRAM FOR HEAT FLUXES ON SATELLITE ORBITING NEAR VENUS AND MARS
NASA-CR-59281 N64-33705 24-28

ORDNANCE
CF WEAPON
RADIOFREQUENCY FILTER TO PROTECT ORDNANCE AGAINST HAZARD OF ELECTROMAGNETIC RADIATION INDUCED FIRING
NAVWEPS-7805, REV. 1 N64-16468 08-09

MATHEMATICAL ANALYSIS OF SAFETY AND ARMING SETBACK MECHANISMS OF ORDNANCE PROJECTILES FOR MAXIMUM SAFETY AND RELIABILITY
HDL-TR-1190 N64-22503 15-26

STAGE SEPARATION & PROPELLANT DISPERSION ORDNANCE SUBSYSTEM
NASA-CR-56647 N64-24016 16-26

ORE
CF MINERAL
KAZAKHSTAN ORES AS POSSIBLE SOURCES OF VANADIUM METAL, ALLOYS, AND COMPOUNDS, AND APPROPRIATE ORE PROCESSING METHODS
JPRS-21973 N64-10330 01-18

RHENIUM IN MOLYBDENITE CONCENTRATES
JPRS-19929 N64-10837 02-18

POLAROGRAPHIC DETERMINATION OF IRON IN ORES & SLAG
RSIC-15 N64-12265 03-18

POLAROGRAPHIC DETERMINATION OF IRON IN ORES & SLAG
RSIC-15 N64-12265 03-18

SELECTIVE FLOTATION OF BARITE-FLUORSPAR ORE
BM-RI-6491 N64-25840 18-07

DISTRIBUTION CHARACTERISTICS OF SELENIUM AND TELLURIUM IN PURE PYRITE ORE DEPOSITS
N64-28044 20-07

SOLVENT EXTRACTION RECOVERY OF THORIUM AND YTTRIUM FROM SILICA-CONTAINING COLORADO ORES
BM-RI-6457 N64-31295 22-0

SAND PUMP INSTALLATION WITH HYDROCYCLONE TO REDUC CYANIDATION TIME FOR GOLD-BEARING ORES
N64-31416 23-0

ORGANIC ALUMINUM COMPOUND
POLYMERIZATION OF SILICON-NITROGEN AROMATIC COMPOUNDS BY ALUMINUM ORGANIC COMPOUND
NASA-CR-51595 N64-13060 04-0

THERMODYNAMIC PROPERTIES OF HEXAFLUOROBENZENE AND TRIETHYLALUMINUM
AD-429092 N64-14814 06-1

ORGANIC CHEMISTRY
PAPERS ON EXPERIMENTS IN BIOCHEMISTRY, BIOLOGY, AND ORGANIC CHEMISTRY
UCRL-10934 N64-10154 01-1

BIO-ORGANIC CHEMISTRY - METAL ION INTERACTION WITH POLYELECTROLYTES
UCRL-9519 N64-18090 10-0

EMERGENT ORGANIC CHEMISTRY UNDER VARIOUS PLANETAR CONDITIONS - ABIOGENESIS, PLANETARY ATMOSPHERES, PLANTS, CHROMOSOMES, & FERTILIZATION PHYSIOLOGY
NASA-CR-56526 N64-22787 16-1

ORGANIC CHEMISTRY AND SYNTHESIS OF BIOCHEMICAL COMPOUNDS FOUND IN UNIVERSE N64-27820 19-0

NUCLEAR, INORGANIC, ISOTOPE, RADIATION, & ORGANIC CHEMISTRY - AQUEOUS SYSTEMS, ELECTROCHEMICAL KINETICS, CHEMICAL PHYSICS, AND WATER RESEARCH
ORNL-3679 N64-30664 22-0

ORGANIC CHEMISTRY PAPERS FROM CHINESE PEOPLES REPUBLIC
JPRS-26583 N64-31572 23-0

ORGANIC COMPOUND
MECHANISMS OF RADIATIONAL-CHEMICAL REACTIONS FOR CONVERSION OF ORGANIC COMPOUNDS - HYDROCARBONS AND CONDENSED PHASES
JPRS-19876 N64-10834 02-0

COMPARATIVE STUDY OF IONIZING RADIATION AND ELECTRIC DISCHARGES ON ORGANIC COMPOUNDS - METHANE, AMMONIA AND WATER N64-11117 02-0

REACTION BETWEEN ORGANIC BROMIDES AND POWDERED TI IN RADIATION FIELD
BMI-1654 N64-11410 02-0

ORGANIC COMPOUNDS IN STONY METEORITES
N64-12949 04-0

ARGON METASTABLE ATOMS IN IONIZATION OF ORGANIC MOLECULES N64-13139 04-1

PHYSICAL AND CHEMICAL PROPERTIES, CHARACTERISTICS, INORGANIC AND ORGANIC COMPOUNDS OF POLONIUM
MLM-1165 N64-13381 04-2

HARDENING PROPERTIES OF POLYVINYL CHLORIDE-DIBUTYL PHTHALATE PLASTISOL BY ELECTRICAL RESISTANCE METHOD
NOLTR-63-250 N64-13828 05-1

LUMINESCENCE OF COMPLEX ORGANIC MOLECULES DURING ENERGY LEVEL CONVERSION
AID-B-63-125 N64-14021 05-2

CONDUCTION OF HALIDES, SULFIDES, ARSENIDES, AND SOLID ORGANIC COMPOUNDS - DIELECTRIC CONSTANT
N64-14186 06-2

POLYMERS, PLASTIC MATERIALS, SYNTHETIC FIBERS, ORGANIC & INORGANIC COMPOUNDS, METALS, AND ALLOYS
CRDL-SP-5-3 N64-14815 06-1

DERIVATIVES OF DIPHENYLMETHANE, PROPANOL, UNSATURATED TERTIARY ALCOHOLS, DIPHENAZIN, AND NOSTYN FOR TREATMENT OF CENTRAL NERVOUS SYSTEM
N64-15383 07-1

EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND

5-HYDROXYINDOLEACETIC ACID DURING JET FLIGHTS
JPRS-23607 N64-16544 08-16

TESTING ORGANIC COMPOUNDS FOR DEPOLARIZER ACTIVITY
N64-17426 09-06

ORGANIC COMPOUNDS IN LAKE WATER OF NEW ZEALAND
N64-17595 09-07

NANOMETRIC METHOD FOR DETERMINATION OF OXYGEN IN ORGANIC COMPOUNDS N64-17667 09-07

THERMOCHEMICAL PERFORMANCE OF ORGANIC POLYMERIC COMPOSITES
LMSC-803099 N64-19028 11-13

ANALYZER FOR DETECTION OF ORGANIC COMPOUNDS IN ATMOSPHERE OF NUCLEAR SUBMARINE
NRL-6064 N64-19407 12-16

SIMILARITY OF ORGANIC COMPOUNDS IN CARBONACEOUS METEORITES TO THOSE IN MARINE SEDIMENTS - EVOLUTION OF LIFE N64-19584 12-16

FORMATION OF POLYMER CHAINS AROUND METAL MOLECULE SKELETONS - POLYORGANIC METAL SILOXANES AND POLYORGANIC SILOXY METAL OXANES
TIL/T-5502 N64-19851 12-07

COMPARISON OF INFRARED REFLECTION SPECTRA OF INORGANIC & ORGANIC COMPOUNDS WITH INFRARED SPECTRUM OF MARS N64-19879 12-29

PRODUCTION OF FLUORINATED BIFUNCTIONAL ORGANIC COMPOUNDS FOR USE AS MONOMERS FOR FLUORINATED POLYCONDENSATION POLYMERS
RSIC-165 N64-20462 13-07

CURED ORGANIC RESIN SYSTEMS FOR FILAMENT WOUND STRUCTURES
REPT.-0627-VI-5 N64-20541 13-19

RADIATION MEASUREMENT OF POLYMERS AND ORGANIC COMPOUNDS
AEC-TR-6316 N64-20560 13-07

ORGANIC COMPOUND ANALYSIS - LIFE DETECTION METHOD FOR SPACE
NASA-CR-52217 N64-20682 13-16

FACTORS AFFECTING FLOW AND DISPERSION OF FINELY DIVIDED ORGANIC POWDERS
REPT.-2381 N64-21579 15-23

MACRO- AND MICRO-DETERMINATIONS OF FUNCTIONAL GROUPS IN ORGANIC COMPOUNDS N64-21906 15-07

CATALYTIC ACTIVITY OF ORGANIC POLYMER COMPOUNDS
FTD-TT-62-1650/1&2&4 N64-21921 15-07

PRODUCTION MECHANISMS FOR ORGANIC BORON COMPOUNDS
AD-434904 N64-22050 15-07

HEATS OF FORMATION OF GASEOUS OXYGENATED ORGANIC COMPOUNDS
NUM-7-P N64-22539 15-07

OPTICAL ACTIVITY IN SAPONIFIED ORGANIC MATTER ISOLATED FROM INTERIOR OF ORGUEIL METEORITE
NASA-CR-53660 N64-22751 16-05

GAS CHROMATOGRAPHIC DETECTION OF ORGANIC COMPOUNDS ON MOON AND MARS
NASA-CR-50183 N64-22753 16-15

EVOLUTION OF INORGANIC, ORGANIC, AND BIOLOGICAL MATERIALS AND ORIGIN OF LIFE
NASA-TM-X-54008 N64-22754 16-16

DETECTION AND IDENTIFICATION OF ORGANIC COMPOUNDS BY MASS SPECTROMETRY
NASA-CR-50678 N64-22762 16-07

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS - CATALYSTS AND CATALYTIC ACTIVITY IN INTERMEDIATE SYSTEMS FORMED DURING SYNTHESIS OF LOW MOLECULAR WEIGHT ORGANIC COMPOUNDS
BL-86 N64-22781 16-16

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS - PHOTOCATALYSTS, RADIOCATALYSTS, & LOW MOLECULAR WEIGHT ORGANIC SYNTHESIS
NASA-CR-56531 N64-22792 16-16

MASS SPECTRA OF ORGANIC MOLECULES - AMINO ACIDS
NASA-CR-56533 N64-22794 16-07

CHEMICAL REACTION OF PERCHLOROCARBORANE AND PERCHLORONEOCARBORANE
TR-20 N64-23243 16-07

EFFECT OF LIGHT INTENSITY ON USE OF CARBON DIOXIDE AND ORGANIC COMPOUNDS DURING PHOTOSYNTHESIS OF CHLOROPSEUDOMONAS ETHYLICUM N64-23433 16-16

COMBUSTIBLE CATALYTIC REACTOR TO STUDY OXIDATION VAPOR AND AEROSOL OF ORGANIC COMPOUNDS
NRL-6040 N64-24082 16-23

ACTIVATED CARBON SAMPLING OF ORGANIC CONTAMINANTS IN NUCLEAR SUBMARINE ATMOSPHERE
N64-24623 17-15

ULTRAVIOLET PHOTOLYSIS OF ORGANIC COMPOUNDS
R63SD15 N64-24936 17-19

PARAMAGNETIC RESONANCE OF TRIPLET STATE CYANOMETHYLENE
AROD-3192-3 N64-25401 17-07

SYNTHESIS OF NONCOMMERCIALLY AVAILABLE ORGANIC COMPOUNDS
AD-439402 N64-25541 17-07

DEPOSITION OF THIN DIELECTRIC FILMS ON METALLIC SURFACES BY ULTRAVIOLET PHOTOLYSIS OF ORGANIC MONOMER VAPORS
RC-900 N64-25600 17-09

USE OF INTENSITY RATIO OF COHERENT TO INCOHERENT SCATTERING OF X-RAYS FOR DETERMINATION OF CARBON TO HYDROGEN RATIO IN ORGANIC COMPOUNDS
EUR-488.F N64-26100 18-07

PHOTOIONIZATION ELECTRONS OF ORGANIC COMPOUNDS
FTD-TT-64-296/1&2 N64-26115 18-23

SYNTHESIS AND ELECTRICAL PROPERTIES OF BENZIMIDAZOLES AND HETEROCYCLIC QUINONOID COMPOUNDS
AFCRL-64-359 N64-27530 19-07

PHOTOCATALYZED DECOMPOSITION OF WATER INTO GASEOUS HYDROGEN AND OXYGEN, AND MECHANISMS OF INTRAMOLECULAR ELECTRON TRANSFER IN ORGANIC COMPOUNDS
AFCRL-64-431 N64-28576 20-07

SORPTION OF ORGANIC FUELS DURING OXIDATION AT ELECTRODES
AROD-3472-3 N64-29012 20-07

CATALYTIC ACTIVITY OF ORGANIC POLYMERS
FTD-TT-63-414/1&2 N64-29016 20-07

HISTORY OF LUNAR ATMOSPHERE AND POSSIBILITY OF ICE AND ORGANIC COMPOUNDS EXISTING ON MOON
NASA-TT-F-232 N64-29497 21-05

SYNTHETIC REACTIONS FOR PRODUCING ORGANIC SILICON COMPOUNDS
FTD-TT-64-165/1&2 N64-30106 21-07

ORGANIC DYE MATERIALS FOR USE WITH PASSIVE RUBY LASER Q-SWITCHING ELEMENTS
TO-B-64-54 N64-30685 22-25

VAPOR-PHASE REACTIONS OF ORGANIC COMPOUNDS WITH OXYGEN
AD-603096 N64-30800 22-07

AROMATIC ORGANIC LASER DEVELOPMENT
AD-429409 N64-31121 22-25

ELECTROLYTIC INITIATION OF OLEFINIC POLYMERIZATIONS BY REDUCTION OF ORGANIC COMPOUNDS
N64-31573 23-07

CHEMISTRY OF OXIDIZERS AND OXIDATION MECHANISMS - REACTIONS OF PERCHLORYL FLUORIDE WITH ORGANIC COMPOUNDS
SAR-2 N64-33243 24-07

ORGANIC COMPOUNDS AND COMPLEXES OF TITANIUM FOR SPECTROPHOTOMETRY N64-33998 24-07

ORGANIC COOLED REACTOR
ECONOMIC STUDY OF CATALYTIC HYDROCRACKING PROCESS APPLIED TO ORGANIC REACTOR COOLANT
IDO-11400 N64-13368 04-07

CALCULATION OF DEUTERIUM OXIDE MODERATED ORGANIC COOLED NATURAL URANIUM LATTICES
EUR-597.E N64-20879 14-23

ORGANIC FLUORINE COMPOUND
FORMATION OF HEPTAFLUOROPROPYLPHOSPHINE BY HYDROLYSIS
A63-14 N64-18631 11-07

PERFLUOROCYCLOBUTANE - THERMODYNAMIC PROPERTIES OF REAL GAS
BM-RI-6475 N64-23249 16-26

INFRARED SPECTRA OF ORGANIC FLUORINE COMPOUNDS - PERFLUOROCYCLOPROPANE AND CIS AND TRANS FORMS OF PERFLUOROBUTENE-2
SSD-TDR-64-144 N64-28538 20-07

PREPARATION AND CHEMICAL REACTIONS OF ORGANIC NITROGEN-FLUORINE COMPOUNDS
AD-445279 N64-32557 23-07

ORGANIC GERMANIUM COMPOUND
THERMOCHEMISTRY OF ALKYLS OF TIN AND GERMANIUM
OTSR-3 N64-32506 23-07

ORGANIC MATERIAL
NUCLEAR RADIATION EFFECT ON ORGANIC MATERIALS
N64-10898 02-07

ORGANIC SYNTHESIS BY GREEN, HIGH TEMPERATURE ALGAE IN VARIOUS DEVELOPMENTAL STAGES
N64-12001 03-16

TRACE IMPURITIES IN ORGANIC MATERIALS DETERMINED BY NEUTRON ACTIVATION ANALYSIS
EUR-432.F N64-12475 04-23

LIQUID OXYGEN ORGANIC SEALANTS FOR USE AT CRYOGENIC TEMPERATURES
NASA-CR-52256 N64-12941 04-19

PRODUCTION OF UNCLOUDED POTASSIUM BROMIDE PLATES FOR USE IN SPECTROSCOPY OF ORGANIC SUBSTANCES
RSIC-7 N64-14782 06-07

PHOTOVOLTAIC EFFECTS IN ORGANIC AND INORGANIC CRYSTALS AND THIN FILMS
AFCRL-63-432 N64-17511 09-25

GAMMA RADIATION PHOTOCONDUCTIVITY DECAY IN ORGANIC DIELECTRIC MATERIALS
SCR-671 N64-18008 10-19

THIN ORGANIC ROLLED FILM CAPACITOR
AD-600317 N64-21296 14-09

METEORITE MICROSTRUCTURES AND ORGANIC MATTER IN CARBONACEOUS METEORITE
NASA-CR-56535 N64-22796 16-07

ELUCIDATION OF ORGANIC ELECTRODE REACTIONS
N64-22889 16-06

ORGANIC SEMICONDUCTOR MATERIALS
AFCRL-64-389 N64-23973 16-09

SPACE ENVIRONMENT EFFECTS ON ORGANIC MATERIALS, MECHANICAL DEVICES, AND ELECTRONIC EQUIPMENT
RSIC-1511 N64-25218 17-29

BIBLIOGRAPHY OF RADIATION EFFECTS ON LIVING ORGANIC MATERIAL
SB-62-60, VOL. II N64-25511 17-16

INJECTION & TRANSPORT OF CARRIERS IN SOLID ORGANIC MATERIAL
AROD-4642-1 N64-25516 17-21

SUSPENSION OF ORGANIC MATTER IN WATER TO INCREASE YIELD OF PORPHINE-LIKE SUBSTANCES
N64-29663 21-16

ORGANIC CONSTITUENTS OF CARBONACEOUS CHONDRITES
N64-30790 22-07

HIGH TEMPERATURE SYNCHROS - ORGANIC AND INORGANIC INSULATING MATERIALS N64-31477 23-17

DIFFUSION CONTROLLED IGNITION OF ORGANIC SOLIDS BY INTENSE RADIANT ENERGY
WSS/CI PAPER-64-7 N64-32518 23-26

RADIATION DAMAGE AND EFFECTS IN CRYSTALS AND ORGANIC MATERIAL
NASA-CR-52949 N64-33783 24-23

ORGANIC MODERATED REACTOR
SODIUM COOLED REACTOR, HNPF FUEL SURVEILLANCE PROGRAM, ORGANIC MODERATED REACTOR, SEPARATIONS CHEMISTRY AND REACTOR SAFETY
NAA-SR-8888 N64-19887 12-23

ORGANIC PHOSPHORUS COMPOUND
METAL NITRATE COMPLEXES WITH TRIBUTYL PHOSPHATE AND WITH TRIOCTYL PHOSPHINE OXIDE -
IS-595 N64-10156 01-19

EXPERIMENTAL TOXICOLOGY OF CERTAIN ORGANIC PHOSPHORUS INSECTICIDES
JPRS-22450 N64-11874 03-16

SEPARATION OF CATIONS BY REVERSED-PHASE PARTITION CHROMATOGRAPHY USING NEUTRAL ORGANIC PHOSPHORUS COMPOUNDS
IS-737 N64-14886 06-07

SEPARATION & ION EXCHANGE BEHAVIOR OF PROTACTINIUM IN TRIBUTYL PHOSPHATE WITH NITRIC ACID, XYLENE, OR KEROSENE SOLUTIONS N64-15652 07-07

PROTACTINIUM SEPARATION FROM THORIUM BY TRIBUTYL PHOSPHATE SOLVENT OR VYCOR GLASS ADSORPTION
N64-15653 07-07

INFRARED SPECTROSCOPIC STUDY OF TRIBUTYL PHOSPHATE NITRIC ACID WATER SOLVENT EXTRACTION SYSTEM
IS-728 N64-15671 07-07

SOLVENT EXTRACTION STUDY OF MONAZITE RARE EARTH NITRATES, NITRIC ACID, WATER, AND TRIBUTYL PHOSPHATE
IS-780 N64-19003 11-07

ORGANIC SILICON COMPOUND
ORGANOSILICON COMPOUNDS - SYNTHESIS AND PHYSICO-CHEMICAL PROPERTIES
FTD-TT-63-451/1&2&4 N64-12486 04-07

SYNTHESIS OF ORGANOSILICON COMPOUNDS WITH SILOXANE CARBON UNITS - PHYSICOCHEMICAL PROPERTIES
N64-12487 04-07

SYNTHESIS OF ORGANOSILICON COMPOUNDS WITH SILAZANE-CARBON AND SILTHIANE-CARBON LINKS - PHYSICOCHEMICAL PROPERTIES N64-12488 04-07

CHLOROMETHYLATION OF ORGANOSILICON COMPOUNDS AND SYNTHESIS OF ORGANOSILICON COMPOUNDS FROM CHLOROMETHYLATED ALKYLBENZENES N64-12489 04-07

CHEMICAL COMPOSITION, STABILITY, AND ELECTRICAL & MECHANICAL PROPERTIES OF POLYORGANOSILOXANES AND POLYORGANOMETALLIC SILOXANE POLYMERS
N64-12807 04-07

PREPARATION METHODS FOR ORGANIC SILICON POLYMERIC COMPOUNDS N64-12808 04-07

ORGANIC SILICON POLYMERS THAT INCLUDE VARIOUS METALS - METALLOSILOXANE POLYMERS
N64-12809 04-07

SYNTHESIS OF LINEAR & CYCLOLINEAR ORGANOSILICON COMPOUNDS WITH PHENYLENESILOXANE CHAINS IN

MOLECULES
RSIC-158 N64-20461 13-07

FOAMED PLASTICS ON ORGANOSILICON RESINS COMBINED WITH ORGANIC POLYMERS
FTD-TT-62-1654/1&4 N64-22626 15-19

ORGANIC TIN COMPOUND
ADDITION OF FLUORO-OLEFINS TO SN-H BONDS OF ORGANOTIN HYDRIDE N64-29174 21-07

THERMOCHEMISTRY OF ALKYLS OF TIN AND GERMANIUM
OTSR-3 N64-32506 23-07

ORGANISM
SA ANIMAL STUDY
SA MICROORGANISM
RESUSCITATION OF AN ORGANISM FROM CLINICAL DEATH
JPRS-20013 N64-10600 01-16

RESPIRATION AND ENERGY TRANSFORMATION IN LIVING ORGANISMS N64-10797 02-16

EFFECT OF SPACE RADIATION ON LIVING ORGANISMS
JPRS-18994 N64-11122 02-32

EFFECT OF SPACE VEHICLE FLIGHT DYNAMICS, AMBIENT SPACE, AND SPACECRAFT ENVIRONMENT ON EARTH ORGANISMS -- SPACE BIOLOGY N64-11666 03-29

BIOLOGICAL EFFECT OF MICROWAVES ON ORGANISMS
JPRS-22580 N64-12357 03-16

INFORMATION PROCESSING OF PHYSIOLOGICAL DATA FOR FUNCTIONS OF ENTIRE ORGANISM - CYBERNETICS N64-12518 04-16

LYSOMES, MITOCHONDRIA, AND GOLGI APPARATUS ALTERATION PATTERN STUDIES DURING AUTOLYSIS AND ANOXIC NECROBIOSIS CONDUCTED ON RAT LIVER LESION N64-14605 06-16

IMMUNOLOGICAL & PROTECTIVE FUNCTIONS OF ORGANISMS
FTD-TT-62-1097/1&2 N64-17167 09-16

INFLUENCE OF CHEMOTHERAPEUTIC AGENTS ON PROTECTIVE FUNCTIONS OF ORGANISMS N64-17170 09-16

INFLUENCE OF PHYSICAL AGENTS ON PHYSIOLOGICAL MECHANISMS WHICH PROTECT ORGANISMS FROM DISEASE N64-17171 09-16

ROLE OF ANAEROBIC & OXIDATIVE PHOSPHORYLATION PROCESSES IN PROTECTIVE FUNCTIONS OF ORGANISMS N64-17172 09-16

POSSIBLE MECHANISM OF INFORMATION PROCESSES IN ORGANISMS - CYBERNETICS
JPRS-24816 N64-21125 14-16

BIOCHEMICAL COMPOUND TO RAISE THERMAL RESISTANCE OF ORGANISMS N64-22729 16-16

ORGANISMS UNDER TERRESTRIAL AND EXTRATERRESTRIAL ENVIRONMENTS
NASA-CR-56527 N64-22788 16-16

COSMIC RADIATION EFFECT ON ORGANISMS AND DEVELOPMENT OF PROTECTIVE MEASURES
FTD-TT-64-33/1&2&4 N64-23335 16-16

EFFECT OF VANADIUM TRIOXIDE DUST ON ORGANISM - TOXICOLGY N64-23368 16-16

PATHOLOGY AND PHYSIOLOGY OF ADAPTIVE CONTROL AND PROTECTION MECHANISMS IN ANIMALS
FTD-TT-62-1548/1&2&4 N64-23463 16-16

ORGANISM PHYSIOLOGICAL MECHANISMS FOR REGULATION AND PROTECTION - ANIMAL STUDY N64-23464 16-16

ADAPTATION REACTIONS AND PATHOLOGICAL STUDIES OF ORGANISM EXPOSED TO HARMFUL STIMULI N64-23465 16-16

INVESTIGATION OF FUNDAMENTAL NATURE OF BIOCHEMICAL SYSTEMS IN TERRESTRIAL ORGANISMS
NASA-CR-58547 N64-28894 20-16

ORGANOMETALLIC COMPOUND
SA CHELATE COMPOUND
METAL NITRATE COMPLEXES WITH TRIBUTYL PHOSPHATE AND WITH TRIOCTYL PHOSPHINE OXIDE -
IS-595 N64-10156 01-19

THERMODYNAMIC PROPERTIES OF HEXAFLUOROBENZENE AND TRIETHYLALUMINUM
AD-429092 N64-14814 06-19

ORGANOMETALLIC COMPOUNDS FOR PREPARATION OF HIGH PURITY CHROMIUM AND EUROPIUM
AFCRL-63-537 N64-17125 09-07

KINETICS OF THERMAL DECOMPOSITION OF SOLID CARBONYL COMPOUNDS OF METALS
FTD-TT-64-220/1&2&4 N64-25468 17-19

AROMATIC AMINE ORGANIC CHLORIDE REACTIONS AND ORGANO-SODIUM AMIDE POLYMERS
TPR-1 N64-27677 19-07

SYNTHESIS OF ORGANOMETALLIC COMPOUNDS OF TRANSITION ELEMENTS
AD-449203 N64-32453 23-07

ORGANOMETALLIC POLYMER
CHEMICAL COMPOSITION, STABILITY, AND ELECTRICAL & MECHANICAL PROPERTIES OF POLYORGANOSILOXANES AND POLYORGANOMETALLIC SILOXANE POLYMERS N64-12807 04-07

ORGANIC POLYMERS WITH CHAINS OF OXYGEN AND OTHER INORGANIC ELEMENTS - METALLOXANE POLYMERS N64-12810 04-07

POLYMERIZATION OF SILICON-NITROGEN AROMATIC COMPOUNDS BY ALUMINUM ORGANIC COMPOUND
NASA-CR-51595 N64-13060 04-07

DEGRADATION OF POLYACENAPHTHYLENE-SODIUM COMPLEX AS SHOWN BY ELECTRON SPIN RESONANCE SPECTRUM
NASA-CR-53503 N64-19959 12-19

CATALYTIC ACTIVITY OF ORGANOMETALLIC CHELATE POLYMERS N64-22999 16-07

SYNTHESIS OF HETEROCHAIN ORGANOMETALLIC POLYMERS
FTD-TT-63-121/1&2 N64-25451 17-19

ORGUEIL METEORITE
HYDROCARBONS IN TERRESTRIAL SAMPLES AND ORGUEIL METEORITE N64-17567 09-05

OPTICAL ACTIVITY OF ORGANIC MATTER SAPONIFIED FROM ORGUEIL CARBONACEOUS METEORITE N64-22489 15-05

OPTICAL ACTIVITY IN SAPONIFIED ORGANIC MATTER ISOLATED FROM INTERIOR OF ORGUEIL METEORITE
NASA-CR-53660 N64-22751 16-05

MICROSTRUCTURE OF ORGUEIL METEORITE
NASA-CR-55366 N64-22766 16-05

ORIENTATION
S SATELLITE ORIENTATION
S SPATIAL ORIENTATION

ORIFICE
S DUCT
DETERMINATION OF RATE OF MASS TRANSFER BETWEEN FLUIDS IN SOLAR FURNACE CHAMBER ORIFICE
JPRS-18756 N64-11213 02-11

PRESSURE MEASUREMENTS IN TRANSITION AND FREE MOLECULAR FLOWS USING ORIFICE PROBES
ARL-63-222 N64-15082 07-23

DISCHARGE COEFFICIENTS OF ORIFICE FLOW OF LIQUID HYDROGEN AND NITROGEN INTO VACUUM
NASA-CR-55329 N64-15880 07-11

EFFECT OF NONSTANDARD APPROACH PIPING ON VENTURI AND ORIFICE METER ACCURACY
NASA-CR-58549 N64-28959 20-15

ORIFICE EFFECT ON PRESSURE MEASUREMENT IN RAREFIED GAS FLOW
AEDC-TDR-64-175 N64-31066 22-11

ORIGIN
SA PLANETARY ORIGIN
ORIGIN OF ELEMENTS N64-19459 12-23

SYNTHESIS OF NATURAL AMINO ACIDS WITH THERMAL ENERGY FOR BIOCHEMICAL ORIGIN STUDY N64-19588 12-07

BEHAVIOR AND ORIGIN OF GEOMAGNETIC STORMS AND CORRELATION WITH OTHER PHENOMENA
AD-428428 N64-19918 12-12

CHEMICAL EVOLUTION AND ORIGIN OF LIFE
NASA-RP-233 N64-25970 18-16

ORIGINS OF AMINO ACIDS AND PROTEINS - MOLECULAR EVOLUTION N64-27797 19-16

ORIGIN AND CLIMATOLOGY OF NOCTILUCENT CLOUDS
TR-181 N64-29447 21-21

UNITY AND ORIGIN OF AUSTRALASIAN TEKTITES
NASA-RP-343 N64-31571 23-12

TEKTITE ORIGIN - DATING FROM NUMBER OF URANIUM FISSION TRACKS
NASA-TT-F-8944 N64-33064 24-29

ORLICZ SPACE
GLOBAL REPRESENTATION THEOREM FOR BOUNDED LINEAR FUNCTIONALS ON ORLICZ SPACES
CIT-ORD-16-TR-11 N64-15946 07-20

OROGRAPHY
SA MOUNTAIN
CF TOPOLOGY
OROGRAPHY OF NORTHERN HEMISPHERE EXPRESSED BY SPHERICAL FUNCTIONS
E-T-CH-63-8 N64-14363 06-12

TIROS I PICTURES OF MOUNTAIN PHENOMENA, ICE, SUN GLITTER, GULF STREAM, AND SOUTHERN HEMISPHERE CLOUDS N64-17918 10-21

CUMULUS CONVECTION AND OROGRAPHIC CONVECTION CELLS - ATMOSPHERIC CIRCULATION
TR-3 N64-24947 17-21

CUMULUS CONVECTION AND OROGRAPHIC CONVECTION CELLS - SYNOPTIC STUDY OF MONSOON RAINFALL IN SOUTHEAST ASIA
REPT.-4 N64-33707 24-21

ORTHICON
IMAGE ORTHICON UTILIZATION FOR STUDYING AURORAL AND NIGHT AIRGLOW ACTIVITY
AFCRL-64-209 N64-17444 09-12

ORTHO-PARA CONVERSION
PARA-ORTHO HYDROGEN CONVERSION BY CATALYSTS INCLUDING RADIOACTIVE MATERIALS
RTD-TDR-63-4106 N64-14308 06-19

PARA-ORTHO SHIFT OF HYDROGEN ENDOTHERMIC HEAT CONVERSION
ASD-TDR-62-833, PT. 2 N64-16608 08-19

CATALYST DEVELOPMENT FOR LOW TEMPERATURE PARA-ORTHO CONVERSION REACTION OF HYDROGEN
APL-TDR-64-48 N64-27459 19-07

CONVERSION RATE OF PARA-ORTHO HYDROGEN CAUSED BY PARAMAGNETIC ION ON CATALYST SURFACE
QPR-2 N64-32515 23-23

ANNOTATED BIBLIOGRAPHY ON ORTHO AND PARA HYDROGEN AND CONVERSIONS
APL-TDR-64-81 N64-33303 24-07

ORTHOGONAL FUNCTION
ORTHOGONAL PROPERTIES OF CLEBSCH-GORDON COEFFICIENTS OF COMPACT GROUPS FOR DEVELOPMENT OF GENERALIZED SHMUSKEVICH METHOD
URPA-15 N64-11406 02-20

CONDITIONS FOR ORTHOGONALITY AND EQUIVALENCE OF GAUSSIAN MEASURES IN FUNCTIONAL SPACE
MH-TRANS-423 N64-11569 03-20

ORTHOGONAL FUNCTION AND WAVE EQUATION OF INVERSE SCATTERING PROBLEM IN QUANTUM MECHANICS
ARL-63-217 N64-12353 03-20

APPROXIMATION FUNCTION FOR LINEAR DIFFERENTIAL EQUATIONS AND ORTHOGONAL POLYNOMIALS
RM-3482-PR N64-16082 07-20

ORTHOSTATIC TOLERANCE
CF POSTURE
EFFECTS OF TRANQUILIZING, ANALEPTIC, AND VASODILATING DRUGS ON PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE
CARI-63-34 N64-26845 18-16

ORTHOTROPIC MATERIAL
SUPERSONIC FLUTTER OF RECTANGULAR, ORTHOTROPIC PANELS N64-11026 02-02

CREEP ANALYSIS OF ORTHOTROPIC FIBERGLASS
FTD-TT-64-372/1&2&4 N64-26934 18-33

OPTIMUM CONSTRUCTION OF ORTHOTROPIC REINFORCED PLASTIC CYLINDERS SUBJECTED TO HIGH EXTERNAL PRESSURE
SM-44594 N64-32157 23-33

ORTHOTROPIC SHELL
INSTABILITY EQUILIBRIUM EQUATIONS OF ORTHOTROPIC CIRCULAR CONICAL SHELL SUBJECTED TO HYDROSTATIC PRESSURE AND COMPRESSIVE AXIAL FORCE
NASA-CR-52883 N64-11337 02-33

ELASTIC AND PLASTIC STABILITY OF ORTHOTROPIC SPHERICAL SHELLS
NASA-CR-53354 N64-18297 10-33

BUCKLING BEHAVIOR OF GEOMETRICALLY ORTHOTROPIC CYLINDRICAL SANDWICH SHELLS
AD-436033 N64-18616 11-33

AXISYMMETRIC, PLANE-STRAIN DYNAMIC RESPONSE OF THICK, ORTHOTROPIC, VISCOELASTIC SHELL
PIBAL-682 N64-18769 11-33

DESIGNING STRUCTURALLY ORTHOTROPIC SHELLS OF REVOLUTION N64-23692 16-34

LAGRANGE VARIATION EQUATION TO OBTAIN EQUATIONS OF MOTION AND BOUNDARY CONDITION FOR ORTHOTROPIC SHELL N64-23693 16-33

FORTRAN II COMPUTER PROGRAM FOR EVALUATION OF DONNELL TYPE DIFFERENTIAL EQUATION FOR ORTHOTROPIC CIRCULAR-CONICAL SHELL N64-24842 17-33

SYMMETRIC LOADING TO DETERMINE STRESS AND DEFORMATION OF THIN ORTHOTROPIC SHELLS OF REVOLUTION
LMSC-6-74-64-5 N64-30682 22-20

IMPROVED SOLUTION FOR STRUCTURALLY ORTHOTROPIC SHELL USING CONSECUTIVE APPROXIMATION METHOD
FTD-TT-64-418/1&2&4 N64-33939 24-34

OSCILLATING WING
THEORETICAL AND EXPERIMENTAL VALUES OF AERODYNAMIC FORCES ACTING ON WINGS AND CONTROLS IN OSCILLATION AT LOW MACH NUMBERS
ARC-CP-681 N64-10054 01-03

FORCES ON LOW ASPECT RATIO RECTANGULAR WING OSCILLATING IN SONIC FLOW
ARC-R&M-3339 N64-13358 04-03

HYDRODYNAMICS AND AERODYNAMICS OF OSCILLATING WING PROPULSION IN UNIFORM FLOW
AD-436778 N64-20137 13-03

AERODYNAMIC FORCES ON OSCILLATING FINITE WINGS
SAAB-TN-53 N64-20526 13-03

ESTIMATION OF OSCILLATING WING AND CONTROL AREA DERIVATIVES
ARC-CP-623 N64-25175 17-03

OSCILLATIONS OF CROSS-SHAPED WINGS OF FINITE SPAN IN COMPRESSIBLE FLOW N64-27979 20-03

OSCILLATION
SA FORCED OSCILLATION
SA PLASMA OSCILLATION
CF VIBRATION
LARGE AMPLITUDE OSCILLATIONS OF VEHICLES ENTERING PLANETARY ATMOSPHERES N64-10082 01-02

FLUCTUATING WALL PRESSURE UNDER SEPARATED, SUPERSONIC, TURBULENT BOUNDARY LAYER
NASA-CR-52528 N64-10441 01-11

LONG-PERIOD WAVES IN TROPOPAUSE AT ISOBARIC SURFACES AND GROUND-LEVEL PRESSURE DURING IGY N64-10818 02-12

OSCILLATION OF SOLUTIONS TO SECOND ORDER NONLINEAR NON-AUTONOMOUS DIFFERENTIAL EQUATIONS N64-11404 02-20

POSSIBLE OSCILLATION OF WINDS IN EQUATORIAL STRATOSPHERE - SOLAR ACTIVITY EFFECT N64-11721 03-21

INERTIAL OSCILLATION OF EQUATORIAL STRATOSPHERE - SOLAR ACTIVITY EFFECT N64-11722 03-21

KEY DAY FOR PREDICTING VARIATIONS IN PRESSURE - SURFACE PRESSURE PERSISTANCE CORRELATION WITH SOLAR ACTIVITY N64-11724 03-21

OSCILLATIONS IN ARGON DISCHARGE
HDL-TR-1182 N64-11771 03-23

REDUCTION OF ENERGY SPREAD OF SYNCHROCYCLOTRON BEAMS DUE TO RADIAL OSCILLATIONS AND TARGET THICKNESS
UR-875-17 N64-12387 03-23

OSCILLATION STABILITY ANALYSIS FOR LINEAR SYSTEMS WITH VARIABLE PARAMETERS - CYBERNETICS N64-12469 04-20

MUTUAL SYNCHRONIZATION OF COUPLED SELF-OSCILLATORS WITH NATURAL FREQUENCIES IN APPROXIMATE MULTIPLE RATIO N64-12734 04-09

PANEL RESPONSE TO ACOUSTIC AND PRESSURE VIBRATION IN TURBULENT BOUNDARY LAYER N64-13071 04-33

LATERAL MOTION OF AIRCRAFT WITH INERTIALLY SLENDER CONFIGURATION
ARC-R&M-3334 N64-13384 04-04

SIGNAL AMPLITUDE, SENSING & SIGNAL-PRODUCING RESISTORS, AND NOISE EFFECT ON SECOND HARMONIC CURVES OF AUTOMATIC SECOND DERIVATIVE PLOTTER
ASD-TDR-63-471 N64-13995 05-20

SHROUD EXCITATION BY PRESSURE OSCILLATION OF TURBULENT FLOW IN SUBSONIC JET
NPL-AERO-1064 N64-14238 06-23

FLUID OSCILLATION IN SPACE VEHICLE AND EFFECT ON VEHICLE STABILITY
NASA-TR-R-187 N64-14941 06-11

DISCONTINUOUS SYSTEM VARIABLES IN OPTIMUM CONTROL OF SECOND-ORDER OSCILLATORY SYSTEMS WITH ZEROS
AD-429417 N64-15099 07-20

SOLUTION FOR PROPAGATION OF PLANE HARMONIC ELECTROMAGNETIC WAVES ACROSS STRATIFIED PLASMA LAYER N64-15255 07-24

OSCILLATORY INSTABILITIES OF EVAPORATION IN TWO PARALLEL HEATED CHANNELS
AERE-M-1105 N64-15391 07-11

PHYSICS OF SELF-EXCITED OSCILLATIONS
FTD-TT-63-748/1&2 N64-16102 07-23

EQUATIONS OF MOTION FOR LIQUID IN OSCILLATING CONTAINER
RSIC-133 N64-16497 08-11

PERMISSIBLE LIMITS OF OSCILLATORY MOTION IN TERMS OF MAXIMUM DEVIATION FROM INTENDED FLIGHT PATH
FPRC-1168 N64-16949 09-04

MULTIMODE OSCILLATIONS IN SOLID STATE MASERS
AFCRL-63-917 N64-18023 10-25

INFINITE CLASS OF PERIODIC SOLUTIONS FOR AN EQUATION OF NONLINEAR OSCILLATION THEORY
NASA-CR-53562 N64-18424 10-20

TRANSIENT OSCILLATION OF LOAD CARRYING SURFACE /WING/ IN COMPRESSIBLE NONVISCOUS MEDIUM
FTD-MT-63-140 N64-18683 11-23

OSCILLATION OF ELASTIC SOLID PANEL BORDERING SUPERSONIC FLOW OF GAS
FTD-MT-63-143 N64-18685 11-11

PRESSURE OSCILLATION SPECTRUM MEASUREMENT IN TURBULENT WAKES
AGARD-464 N64-18717 11-11

RESONANCE IN NONLINEAR OSCILLATING-INTEGRATING HAMILTONIAN SYSTEM
FTD-MT-63-112 N64-18762 11-23

NONLINEAR OSCILLATIONS IN TUNNEL DIODES
AFCRL-64-21 N64-19055 11-09

MATHEMATICAL MODELS FOR AXIAL OSCILLATIONS CAUSED BY ENGINE STRUCTURE COUPLING IN MISSILES
LMSC/A389580 N64-19076 11-30

STEADY STATE PLANAR MOTION OF FLUID WITH FREE SURFACE IN CONTAINER UNDERGOING LATERAL HARMONIC VIBRATION
NASA-TN-D-1870 N64-19367 12-11

ANOMALOUS SHORT PERIOD OSCILLATIONS OF CYCLONIC AND ANTICYCLONIC ACTIVITY N64-19433 12-21

PHOTOELECTRIC STUDY OF INTERNAL OSCILLATIONS IN P-N-P-N TRANSISTORS
FTD-TT-64-68/1&2 N64-19770 12-09

STABILIZATION OF REACTION VIBRATION MACHINE TO PLANAR SIMPLE HARMONIC MOTION N64-20250 13-10

CORRELATION OF SINUSOIDAL RESONANCE DWELL AND INCREASED-TIME SWEEP CYCLING TESTS - FATIGUE TESTING N64-20252 13-33

DYNAMICS OF PNEUMATIC PRESSURE REGULATOR COUPLED WITH LONGITUDINAL OSCILLATIONS OF ATLAS-AGENA LAUNCH VEHICLE
GDA63-0712 N64-20320 13-30

PRESSURE OSCILLATIONS INDUCED BY FORCED CONVECTION HEAT TRANSFER TO TWO-PHASE AND SUPERCRITICAL HYDROGEN
LAMS-3070 N64-21055 14-13

OSCILLATING BEHAVIOR OF TRANSVERSELY LOCATED CIRCULAR CYLINDER SHELL
DFL-231 N64-21707 15-33

NONLINEAR STRUCTURAL VIBRATION OF BEAMS, ROTOR BLADES, AND COMPOSITE SYSTEMS
FTD-TT-62-1197/1&2 N64-22039 15-34

EFFECTS OF CONCENTRICAL RIBS ON FREQUENCY OF FREE OSCILLATIONS OF ROUND AND RING SHAPED PLATES
FTD-TT-63-810 N64-22661 15-33

DESIGN CONSIDERATIONS OF LARGE SPACE VEHICLES DUE TO AXIAL OSCILLATIONS CAUSED BY ENGINE-STRUCTURAL COUPLING N64-23161 16-33

BOUNDARY LAYER TRANSITION & DYNAMIC STABILITY OVER LARGE AMPLITUDES OF OSCILLATION
AIAA PAPER-64-427 N64-23355 16-11

LAGRANGE VARIATION EQUATION TO OBTAIN EQUATIONS OF MOTION AND BOUNDARY CONDITION FOR ORTHOTROPIC SHELL N64-23693 16-33

MASER WITH TWO TYPES OF NATURAL OSCILLATIONS OF RESONATOR N64-23808 16-25

LONGITUDINAL OSCILLATION OF ATLAS LAUNCH VEHICLE &

RELATION TO TANK PRESSURE REGULATION
GD/A-63-0712 N64-24153 16-31

OSCILLATIONS IN GEOPHYSICAL PHENOMENA
N64-24468 17-21

FREQUENCY VALUES & DEGREE OF DAMPING OF OSCILLATORS OF ELECTROMECHANICAL OSCILLOGRAPH
N64-24526 17-09

CONTROL SURFACE OSCILLATIONS - ROTATION OF FLAP ABOUT HINGE
ARC-R&M-3364 N64-25203 17-04

NONLINEAR OSCILLATION AND EPILEPTIC ELECTROENCEPHALOGRAPHIC PHENOMENA
AFCRL-63-149/1/ N64-25395 17-23

OSCILLATION MEASUREMENTS IN SODIUM REACTOR EXPERIMENT /SRE/
NAA-SR-7264 N64-25546 17-23

TRANSVERSE AND ORGAN-PIPE ACOUSTIC OSCILLATION IN COMBUSTION SYSTEMS N64-26009 18-26

FREE OSCILLATIONS OF CYLINDRICAL SHELL REINFORCED WITH STIFFENED RIBS
FTD-TT-64-72/1 N64-26112 18-33

RESONANT FREQUENCY FOR COMPRESSIBLE FLOW PAST OSCILLATING MODEL IN WIND TUNNEL
ARC-R&M-3371 N64-26521 18-10

FREE GYROSCOPIC DRIFT IN CARDAN SUSPENSION DURING NUTATIONAL OSCILLATIONS
FTD-TT-64-416/1&2&4 N64-26737 18-23

ANALYSIS OF PRESSURE AND FLOW PERTURBATIONS PRODUCED IN PROPELLANT FEED SYSTEMS
NASA-TN-D-2409 N64-26777 18-11

INTERACTION BETWEEN PLANE ELECTROMAGNETIC WAVE AND OSCILLATING DIELECTRIC MEDIUM
AFCRL-64-532 N64-27498 19-24

DYNAMIC NONLINEAR WAVE PROPAGATION IN IONIZED MEDIA - CERENKOV EFFECT IN PREOSCILLATING MEDIUM
AFCRL-64-534 N64-27500 19-23

OSCILLATIONS OF FLUID IN AXIALLY SYMMETRIC TANK BY METHOD OF PERTURBING BOUNDARY SHAPE
N64-27986 20-11

OSCILLATIONS OF GAS WITHIN ENCLOSED DUCT
N64-28473 20-11

NONLINEAR ACOUSTIC OSCILLATIONS OF GAS COLUMN WITHIN ENCLOSED DUCT N64-28474 20-11

MOLECULAR MOTIONS IN SOLID POLYMERS BY DIELECTRIC MEASUREMENTS N64-28519 20-19

TECHNIQUES AND INSTRUMENTATION FOR MEASURING OSCILLATORY DERIVATIVES IN WIND TUNNELS
ARC-R&M-3319 N64-28521 20-33

OSCILLATING SPHERE IN ROTATING VISCOUS FLUID - EFFECT OF CORIOLIS FORCES ON FLOW PATTERN
NASA-TM-X-55050 N64-28900 20-11

NATURAL DAMPING OF NUTATIONAL OSCILLATIONS OF FREE GYROSCOPE N64-29144 21-15

SMALL ELECTRIC CLOCK-REGULATOR WITH INDIRECT DRIVE AND INDEPENDENT STABLE SELF-OSCILLATION
N64-29146 21-15

MEASURING SPECTRAL INDICES OF NEUTRONS BY OSCILLATION METHOD
LFEN-NI.12 /BETA/ N64-29654 21-23

OSCILLATION PROCESSES IN COMPLEX NONLINEAR SYSTEMS FOR VARIOUS INITIAL DEVIATIONS
N64-30223 22-09

FREE OSCILLATION FREQUENCIES OF EARTH ATMOSPHERE
NASA-TT-F-8950 N64-30843 22-12

STABILITY OF DYNAMIC SYSTEMS, NONLINEAR OSCILLATIONS, AND FUNCTIONAL-DIFFERENTIAL EQUATIONS
AD-422279 N64-31186 22-21

CALCULATION OF COMPOSITE OSCILLATING SYSTEMS
N64-31358 23-09

OSCILLATIONS OF SPHERE IN INCOMPRESSIBLE VISCOUS FLUID ROTATING WITH CONSTANT ANGULAR VELOCITY
NASA-RP-313 N64-31443 23-11

CALCULATION METHODS FOR FREE AND FORCED OSCILLATIONS OF NONLINEAR AUTOMATIC SYSTEMS - AUTOMATIC CONTROL THEORY
FTD-TT-63-125/1&2 N64-31697 23-09

ANALYSIS OF TWO-DIMENSIONAL SUPERCAVITATING FLAT PLATE OSCILLATING UNDER FREE SURFACE BY LINEAR ACCELERATION POTENTIAL
AD-603160 N64-31830 23-03

EFFECT OF VERTICAL OSCILLATIONS OF GYROSCOPIC HOUSING ON GYROCOMPASS READING FOR FLOATING TYPE
N64-31863 23-15

TRANSMISSION OF OSCILLATIONS THROUGH NONLINEAR RUBBER SHOCK ABSORBER UNDER IMPACT
N64-31872 23-15

SIMULATION OF TRANSIENT RADIO WAVE PROPAGATION BY APPROXIMATION METHOD N64-32229 23-08

ELECTROMAGNETIC WAVE REFLECTION FROM OSCILLATING, COLLISION-FREE MAGNETOIONIC MEDIUM
AFCRL-64-610 N64-32476 23-08

REACTION OF OSCILLATING QUARTZ PLATES TO STEADY TENSION OR FLEXURE STRESS
REPT.-12 N64-32870 24-23

FREQUENCY THERMAL COEFFICIENT COMPENSATION OF QUARTZ IN TRANSISTOR SELF-OSCILLATOR CIRCUITS
N64-32910 24-09

VOLTAGE CALCULATION OF SELF-OSCILLATOR WITH SELF-BIAS DUE TO GRID CURRENT - GENERATORS AND TRANSDUCER LOADS N64-32924 24-09

FLOW OF SUPERFLUID HELIUM - DAMPING OF SOLIDS OSCILLATING IN VISCOUS FLUID
QPR-6 N64-33660 24-11

BIBLIOGRAPHY ON WIND-INDUCED OSCILLATIONS OF SATURN BOOSTER IN VERTICAL LAUNCH POSITION
NASA-CR-59329 N64-33769 24-33

CONFINING REGIONS OF RELAXATION OSCILLATIONS
R-228 N64-33798 24-23

TWO PHASE GAS-LIQUID FLOW OSCILLATIONS, INSTABILITIES, AND EXCURSIONS
DSR-8734-5 N64-33888 24-11

OSCILLATION FREQUENCY
CF PLASMA FREQUENCY
MUTUAL SYNCHRONIZATION OF COUPLED SELF-OSCILLATORS WITH NATURAL FREQUENCIES IN APPROXIMATE MULTIPLE RATIO N64-12734 04-09

FREQUENCY MODULATED OSCILLATIONS CONVERTED TO AMPLITUDE-FREQUENCY-MODULATED OSCILLATIONS BY DIFFERENTIATING DEVICE N64-12743 04-09

INITIAL FUNCTIONS METHOD TO DETERMINE SYMMETRICAL, SKEW-SYMMETRICAL, & NONSYMMETRICAL OSCILLATIONS OF RECTANGULAR PLATES
FTD-TT-63-740/1&2 N64-12848 04-33

LOW FREQUENCY OSCILLATIONS OF TAPERED WINGS AT SUPERSONIC SPEEDS
NPL-AERO-1063 N64-14131 05-03

INTENSIFICATION OF HOMOGENEOUS COMBUSTION BY LOW FREQUENCY OSCILLATIONS - FORMATION AND BREAKDOWN OF VORTICES
FTD-MT-63-50/1&2 N64-18673 11-24

OSCILLATION OF ELASTIC SOLID PANEL BORDERING SUPERSONIC FLOW OF GAS
FTD-MT-63-143 N64-18685 11-11

OSCILLATION FREQUENCY, STABILITY, AND STRUCTURE OF DETONATION WAVES USING VON NEUMANN THEOREM
N64-19709 12-26

LIQUID SURFACE LOW FREQUENCY OSCILLATIONS IN LONGITUDINALLY VIBRATED CYLINDRICAL TANK
NASA-CR-56135 N64-20721 13-11

MEASURING LOW FREQUENCY ACCELERATIONS ACCOMPANIED BY HIGH FREQUENCY PARASITIC OSCILLATIONS
N64-23543 16-09

NANOSECOND PULSES OF ULTRAHIGH FREQUENCY OSCILLATION
FTD-TT-64-472/162 N64-26125 18-09

RANGE EXTENSION OF ELECTROMAGNETIC SPECTRUM BY CONTINUOUS OSCILLATION FREQUENCY OF OPTICALLY PUMPED MASER
CU-6-64-SC-90789 N64-30590 22-25

FREQUENCY TRACKING SQUARE WAVE OSCILLATOR FOR SATURN LAUNCH VEHICLES
NASA-TR-R-208 N64-30612 22-09

FREE OSCILLATION FREQUENCIES OF EARTH ATMOSPHERE
NASA-TT-F-8950 N64-30843 22-12

CONTROL METHODS OF HIGH FREQUENCY COMBUSTION OSCILLATIONS IN HIGH THRUST LIQUID PROPELLANT ROCKET ENGINES
AD-449764 N64-32647 23-26

OSCILLATOR
SA ELECTRON TUBE
SA HARMONIC OSCILLATOR
SA SUBHARMONIC OSCILLATOR
TEMPERATURE COMPENSATION TECHNIQUES FOR QUARTZ CRYSTAL OSCILLATORS
AD-417697 N64-14092 05-09

DYNAMIC BEHAVIOR OF QUANTUM MECHANICAL OSCILLATORS
AD-427186 N64-14112 05-25

TUNABLE L-BAND TUNNEL DIODE OSCILLATOR
QPR-5 N64-14293 06-09

ATOMIC OSCILLATOR DEVICE FOR NAVIGATION & GUIDANCE
P&B-859 N64-15748 07-22

DEVELOPMENT OF CIRCULAR DOT AND DISTRIBUTED JUNCTION DIODES AND OF STRIPLINE AND WAVEGUIDE OSCILLATOR CIRCUITS
AD-431542 N64-16988 09-09

HYDROGEN ATOM OSCILLATOR STRENGTH DISTRIBUTION
N64-17108 09-23

TRANSISTOR WITH OSCILLATOR OUTPUT OF 250 MILLIWATTS AT 1.5 GIGACYCLES
AD-420557 N64-18273 10-17

CONSTRUCTION AND OPERATION OF QUARTZ COMPOSITE OSCILLATOR FOR MEASURING INTERNAL FRICTION IN METALS AND ALLOYS
BM-RI-6419 N64-18506 10-09

VELOCITY SERVO-VOLTAGE-CONTROLLED OSCILLATOR
NASA-CR-53737 N64-19600 12-09

OPTIMUM PERFORMANCE TESTING OF X-BAND TUNNEL DIODE OSCILLATOR
QPR-2 N64-20097 13-09

ATOMIC OSCILLATOR DEVICE FOR NAVIGATION & GUIDANCE
ASD-TDR-64-2 N64-20136 13-22

DETECTION OF FREQUENCY ERRORS IN NUCLEAR MAGNETIC RESONANCE OSCILLATOR N64-21010 14-23

NUCLEAR MAGNETIC RESONANCE OSCILLATOR - OPTICAL PUMPING N64-21011 14-25

QUARTZ CRYSTAL OSCILLATOR
TP-68-994 N64-21842 15-09

SHOCK TUBE MEASUREMENT OF TEMPERATURES AND OSCILLATOR STRENGTHS
AD-433547 N64-22226 15-24

CONTINUOUS WAVE X-BAND VOLTAGE TUNABLE OSCILLATOR
REPT.-2 N64-23602 16-09

THEORY OF LR TRANSISTOR OSCILLATOR
N64-23799 16-09

WIDTH OF SPECTRAL LINE OF LOW FREQUENCY AND RADIO FREQUENCY OSCILLATORS N64-23806 16-08

COUNTER VORTEX OSCILLATORS IN AXIALLY SYMMETRIC VORTEX TUBE N64-23816 16-14

OPTIMUM TRIODE INTEGRATION INTO X-BAND CIRCUITRY AND HIGH EMISSION DENSITY OXIDE CATHODE-TRIODE OCILLATORS FOR USE AT X-BAND
REPT.-10 N64-24074 16-09

ULTRALOW DRAIN LOCAL OSCILLATORS AND MIXERS - ELECTRONIC EQUIPMENT
USAELRDL-TR-2438 N64-24216 16-09

SINGLE-BAND CRYSTAL DIODE MODULATOR AS LOCAL DIODE OSCILLATOR IN ELECTRON PARAMETRIC RESONANCE SPECTROMETER
FTD-TT-64-317/162&4 N64-24325 17-15

FREQUENCY ERRORS OF RESISTANCE-CAPACITANCE OSCILLATORS N64-24537 17-09

SEMICONDUCTOR SAWTOOTH VOLTAGE STANDBY OSCILLATOR N64-24555 17-09

FORCED OSCILLATION IN CLASS OF SELF-BIASED MULTIMODE OSCILLATORS
TR-139 N64-24810 17-09

FREQUENCY TEMPERATURE COMPENSATION TECHNIQUES FOR QUARTZ CRYSTAL OSCILLATOR
QPR-2 N64-24929 17-25

OPERATIONAL PRINCIPLES AND CHARACTERISTICS OF SONIC OSCILLATOR - PNEUMATIC CLOCK PULSE GENERATOR
N64-25303 17-09

SOLID STATE DEVICES - SILICON TRANSISTOR AND VOLTAGE TUNED OSCILLATOR FOR RADIO FREQUENCY GENERATOR
QPR-3 N64-25994 18-25

SWEEP OSCILLATOR TO GENERATE ALTERNATING ELECTRIC FIELD OF CONSTANT AMPLITUDE FOR OMEGATRON MASS SPECTROMETER N64-26967 19-15

GALLIUM ARSENIDE TUNNEL DIODE FABRICATION AND CIRCUIT DESIGN FOR TUNABLE OSCILLATOR
QPR-7 N64-27706 19-09

EVALUATING LOW-POWER, X-BAND, PLATE-PULSED OSCILLATOR
REPT.-4 N64-27707 19-09

TEN MILLIWATT TUNNEL DIODE OSCILLATOR
QPR-3 N64-27738 19-09

OSCILLATOR FOR CONTROL OF BEAD WIDTH DURING WELDING OPERATION
NASA-CR-56654 N64-27874 20-17

LOCAL OSCILLATOR DEVELOPMENT, COMPONENT EVALUATION, AND DESIGN PLAN FOR RADIO INTERFERENCE MEASURING INSTRUMENT
REPT.-2 N64-28227 20-08

PRODUCTION METHODS FOR RUGGEDIZED QUARTZ CRYSTAL OSCILLATORS
QPR-6 N64-28620 20-09

MOLECULAR GAS OSCILLATOR STRENGTHS INVESTIGATED BY ELECTRON IMPACT METHOD
AFCRL-64-669 N64-29011 20-07

TEMPERATURE EFFECTS ON STABILITY OF TRANSISTORTUBE RC NETWORK OSCILLATOR N64-29128 21-15

VEHICLE MASTER OSCILLATOR & FREQUENCY SYNTHESIZER FOR AIRBORNE RANGE & ORBIT DETERMINATION SYSTEM
NASA-CR-58698 N64-29505 21-08

WIEN-BRIDGE OSCILLATOR AS LOW-FREQUENCY STANDARD

HDL-TR-1112 N64-29809 21-09

OSCILLATOR STABILITY IN COMMUNICATION AND RADAR SYSTEMS
TDR-269/9990/-9 N64-29822 21-09

ABSORPTION OSCILLATOR STRENGTHS OF SPECTRAL LINES FROM MEDIUM AND LIGHT ELEMENTS
NRL-6085 N64-29954 21-23

PRECISION OSCILLATORS FOR MILITARY ELECTRONIC TIMERS - RELATIVE PERFORMANCE OF VARIOUS TYPES AS TO ACCURACY, STABILITY, AND RUGGEDNESS
HDL-TR-1235 N64-30114 21-09

FREQUENCY TEMPERATURE COMPENSATION IN SMALL QUARTZ CRYSTAL OSCILLATOR
PUBL.-3032-64 N64-30552 22-09

CRYSTAL RESONATORS FOR OSCILLATOR AND FILTER
AD-602840 N64-30788 22-09

GENERATION OF SUBMILLIMETER WAVES BY MEANS OF ELECTRON BEAMS - CARCINOTRON OSCILLATORS
WR-1213 N64-30814 22-09

RANDOM VIBRATION SPECTRUM OF NONLINEAR OSCILLATOR
AFOSR-64-1057 N64-30914 22-33

USE OF HUMAN THERMOREGULATORY PROPERTIES FOR QUARTZ CRYSTAL OSCILLATORS
USAELRDL-TR-2380 N64-31231 22-09

L-BAND GALLIUM ARSENIDE TUNNEL DIODE OSCILLATOR
REPT.-4 N64-31691 23-09

OSCILLATOR BUILD-UP TIME CHARACTERISTIC AND EXPRESSION FOR TRANSMITTER BANDWIDTH IN TERMS OF CIRCUIT PARAMETERS FOR UNPOWERED PERSONAL TRANSMITTER
AD-439830 N64-32362 23-09

NETWORK SYNTHESIS, PHASE LOCKED OSCILLATORS, AND COMPUTER PROGRAMS FOR INTELLIGENCE EFFORT
EDL-M636 N64-32550 23-09

PRECISION POSITION DETERMINATION BY DISTANCE MEASURING TECHNIQUES USING ELECTRONIC METHODS AND OSCILLATORS
REPT.-2900-453-T N64-32674 23-23

RESONANCE OF NONLINEAR OSCILLATOR BY DUFFING EQUATION
ARDD-4105-7 N64-32808 24-23

DIRECT OSCILLATORY DERIVATIVE MEASUREMENTS FOR LINEAR BENDING MODE ON RIGID HALF-SPAN MODELS AT SUBSONIC AND TRANSONIC SPEEDS IN CLOSED AND SLOTTED WIND TUNNEL
ARC-R&M-3376 N64-33255 24-02

CRYSTAL STABILIZED HARTLEY OSCILLATOR CIRCUIT AND BASIC OSCILLATOR CIRCUIT
AD-447809 N64-33659 24-09

OSCILLOSCOPE
CF FREQUENCY ANALYSIS
CAMERA-OSCILLOSCOPE RECORDING EQUIPMENT FOR ATHENA PROGRAM RADAR
PA-3 N64-23279 16-15

SOLID PROPELLANT ROCKET COMBUSTION INSTABILITY MEASURED BY ACCELEROMETER, OSCILLOSCOPE AND OSCILLOGRAPH N64-28595 20-26

OSMIUM
MEASUREMENT OF VAPOR PRESSURE AND HEAT OF SUBLIMATION OF RUTHENIUM AND OSMIUM USING MICROBALANCE TECHNIQUE
NBS PAPER-68A3-280 N64-32230 23-07

OSMIUM COMPOUND
X-RAY FLUORESCENCE STUDY OF OSMIUM TETROXIDE-TRIGLYCERIDE INTERACTION AS FUNCTION OF DEGREE OF UNSATURATION N64-22863 16-16

OSMOSIS
TEST APPARATUS FOR DEVELOPMENT OF OSMOTIC STILL TO REMOVE POTABLE WATER FROM ELECTROLYTES IN DUAL MEMBRANE FUEL CELLS
NASA-CR-55699 N64-16276 08-0

MATERIALS AND SINTERED ELECTRODE TESTING, FUEL CELL DESIGN, AND CHECKOUT OF TEST RIG FOR OSMOTIC STILL AND DUAL MEMBRANE FUEL CELL
NASA-CR-55702 N64-16278 08-0

MEMBRANE AND ELECTRODE TESTING AND MATERIAL ANALYSIS FOR OSMOTIC STILL AND DUAL MEMBRANE FUEL CELL
NASA-CR-55693 N64-16279 08-0

WATER PURIFICATION BY OSMOSIS THROUGH MEMBRANES
NASA-CR-55697 N64-16280 08-0

WATER PURIFICATION BY OSMOSIS THROUGH MEMBRANES
NASA-CR-55698 N64-16281 08-0

MEMBRANE, ELECTRODE, AND FUEL CELL TESTING IN DEVELOPMENT OF OSMOTIC STILL AND IMPROVEMENT OF DUAL MEMBRANE FUEL CELL
NASA-CR-55695 N64-16282 08-0

WATER PURIFICATION BY OSMOSIS THROUGH MEMBRANES
NASA-CR-55701 N64-16320 08-0

OPTIMUM MATERIALS FOR DUAL MEMBRANE FUEL CELL MATERIAL - EVALUATION OF ION EXCHANGE MEMBRANES FOR OSMOTIC WATER PURIFICATION STILL
NASA-CR-43 N64-21252 14-0

DETERMINATION OF KINETICS OF DIFFUSION AND OSMOSIS USING RADIOACTIVE ISOTOPES N64-30395 22-1

MECHANISM OF OSMORECEPTOR STIMULATION - DETECTION OF OSMOTIC PRESSURE OSCILLATIONS N64-32777 24-1

DISTURBANCE OF OSMOTIC TISSUE REGULATION IN WATER TOXICITY
NASA-TT-F-9110 N64-33393 24-1

WATER INTOXICATION & DIURESIS IN ADRENAL INSUFFICIENCY AND SIGNIFICANCE OF ADRENAL GLAND IN OSMOREGULATION
NASA-TT-F-9115 N64-33397 24-1

OSO
THERMAL ANALYSIS OF SCANNING SPECTROMETER FOR ORBITING SOLAR OBSERVATORY S-57
AFCRL-63-700 N64-12290 03-2

ALBEDO AND EARTH RADIATION DATA OBTAINED FROM ORBITING SOLAR OBSERVATORY EMISSIVITY SENSORS
AIAA PAPER-64-317 N64-23218 16-2

RADIATION ANALYZER TO MEASURE POLARIZATION AND ELLIPTICITY OF ZODIACAL LIGHT FROM ORBITING SOLAR OBSERVATORY /OSO/
NASA-CR-56313 N64-27397 19-1

SOLAR FLARES IN LIGHT OF HYDROGEN LYMAN ALPHA RADIATION MONITORED BY ORBITING SOLAR OBSERVATORY /OSO/ N64-30258 22-2

OSO SOLAR X-RAY DATA FROM SLOW VARIATIONS & FLARES
NASA-RP-346 N64-31722 23-2

OSO- I
ORBITING SOLAR OBSERVATORY I OBSERVATIONS OF SOLAR SPECTRUM BETWEEN 170 & 340 ANGSTROMS
NASA-TM-X-51258 N64-11799 03-3

PERFORMANCE OF ORBITING SOLAR OBSERVATORY
NASA-TM-X-55038 N64-28897 20-3

OSO-B
ULTRAVIOLET SPECTROPHOTOMETER FOR OSO-B STELLAR ATMOSPHERE OBSERVATIONS
NASA-TM-X-55079 N64-33560 24-1

OTOLITH
EVALUATION OF POSITIONAL ALCOHOL NYSTAGMUS AS INDICATOR OF OTOLITH FUNCTION
NASA-CR-55619 N64-15350 07-1

OUTER RADIATION BELT
CF VAN ALLEN BELT

MORPHOLOGY OF ELECTRON DISTRIBUTION IN OUTER RADIATION ZONE & NEAR MAGNETOSPHERIC BOUNDARY BY EXPLORER XII DATA
NASA-CR-52300 N64-10178 01-12

EXPLORER XIV OUTER RADIATION ZONE CHARGED PARTICLE FLUX MEASUREMENT
NASA-CR-53169 N64-17579 09-12

OBSERVATION OF CHARGED PARTICLES IN EARTHS OUTER RADIATION ZONE FROM EXPLORER XIV SATELLITE
N64-25539 17-12

GEOGRAPHICAL POSITION OF PARTICLE INTENSITY MAXIMA IN OUTER RADIATION BELT AT LOW ALTITUDES
NASA-TT-F-8907 N64-25619 17-28

MORPHOLOGY OF ELECTRON DISTRIBUTION IN OUTER RADIATION ZONE & NEAR MAGNETOSPHERIC BOUNDARY
N64-25660 17-28

TWIN LAUNCHING OF ELEKTRON I AND ELEKTRON II SATELLITE TO STUDY OUTER RADIATION BELT
NASA-CR-56644 N64-27826 19-32

GEOGRAPHIC LOCATION OF PARTICLE INTENSITY MAXIMA IN OUTER RADIATION BELT AT LOW ALTITUDES
N64-29087 21-28

ELECTRON LOSS RATE FROM OUTER RADIATION BELT USING FLUX MEASUREMENTS ON DISCOVERER SATELLITES
NASA-RP-307 N64-29340 21-28

OUTPUT
SA LASER OUTPUT
MATHEMATICAL STUDY OF LINEAR FILTER DEVICES FOR TRANSFORMING INPUT INTO OUTPUT
NH-TRANS-425 N64-11571 03-09

SURVIVAL OF MODEL GENERATOR UNDER SUSTAINED TEST IN VACUUM WITHOUT DEGRADATION OF POWER OUTPUT
ASD-TDR-62-896, PT. 2 N64-12224 03-06

PARAMETRIC INFLUENCE ON OUTPUT POWER OF TWO-GAP KLYSTRON N64-16139 08-09

INPUT, OUTPUT, AND TRANSFER FUNCTION RELATIONS OF LINEAR TRANSDUCERS N64-16238 08-15

MULTIPLE-OUTPUT BINARY COMBINATIONAL SWITCHING NETWORKS
AFCRL-64-7 N64-19144 11-09

INCREASED OUTPUT OBTAINED BY INCREASING ELECTRODE SIZE IN THERMIONIC CONVERTER SYSTEM
N64-19844 12-06

MEASUREMENT OF RADIO SIGNAL PARAMETERS BY OBSERVING OUTPUT SIGNAL OF OPTIMAL RECEIVER THROUGH SPECIFIED LEVEL N64-29475 21-09

OXALIC ACID
HYDROLYSIS & SYNTHESIS OF TETRAZINEDICARBOXYLIC ACID AND BENZALHYDRAZINOOXALIC ACID
RSIC-95 N64-12604 04-07

OXALIC ACID DOSIMETER FOR MEASURING MEGARAD DOSES OF GAMMA RADIATION
USNRDL-ER-14 N64-31283 22-17

OXAMIC ACID
SEMI-OXAMAZIDE PREPARED BY REACTION OF HYDRAZINE & OXAMIC ACID
RSIC-96 N64-12605 04-07

OXANE
DIOXANE SULFUR TRIOXIDE FOR QUANTITATIVE ANALYSIS OF ACTIVE HYDROGEN IN ALCOHOLS AND AROMATIC AMINES
TIL/T-5451 N64-16527 08-07

OXIDATION
SA COMBUSTION
CF CHEMICAL REACTION
OXIDATION TESTING, CELLOPHANE DEGRADATION AND MODIFICATION, AND DIFFUSION RATE OF SILVER IONS - ALKALINE BATTERY SEPARATOR
NASA-CR-52491 N64-10368 01-19

ELECTRO-OXIDATION OF 1,2 BIS/DIPHENYL/BORATE ION
AROD-2814-3 N64-10552 01-07

OXIDATION OF TITANIUM IN AIR AND WATER AT LOW TEMPERATURE
JPRS-17815 N64-10567 01-18

BIOELECTROCHEMISTRY - ENZYME SYSTEMS, OXIDIZATION POTENTIAL, ELECTRODE, & CHRONOPOTENTIOMETRIC STUDY
NASA-CR-52607 N64-11103 02-16

ORGANIC REACTIONS PRODUCING FUELS - ALKYLATION & OXIDATION
FTD-TT-62-1185/1&2&4 N64-11156 02-07

OXIDATION OF N-DECANE WITH OXYGEN
N64-11159 02-07

SEPARATION OF SOLUTES BY COUNTER-CURRENT TECHNIQUE INVOLVING OXIDATION-REDUCTION REACTIONS IN SALT-LIQUID METAL SYSTEMS
IS-660 N64-11437 02-07

HIGH TEMPERATURE OXIDATIVE DEGRADATION OF PHENOL-FORMALDEHYDE POLYCONDENSATES
RR-46 N64-12122 03-07

OXIDATION PRODUCTS USED TO FASTEN RUBBER TO METAL
FTD-TT-63-831/1&2 N64-12630 04-17

RELATIONS BETWEEN OXIDATION, RESPIRATION, LIGHT INTENSITY, AND OXYGEN PRODUCTION IN GREEN PLANTS
N64-13370 04-16

OXIDATION KINETICS OF NIOBIUM IODIDE USING IODIDE REFINING AND ELECTRON BEAM REMELTING METHODS
N64-13733 05-07

BIOCHEMICAL FUEL CELLS - ELECTRO-OXIDATION OF HYDROGEN AND FORMIC ACID
QPR-5 N64-13968 05-16

BIBLIOGRAPHY - THERMAL DEGRADATION, OXIDATION, & ANALYSIS OF POLYMERS
PLASTEC NOTE 7 N64-14313 06-19

PARABOLIC EQUATION FOR LOGARITHMIC OXIDATION RATE OF NICKEL-THORIUM DIOXIDE ALLOY
HW-79350 N64-15833 07-07

OXIDATION OF URANIUM DIOXIDE AT HIGH TEMPERATURES AND LOW PRESSURES
FTD-TT-63-102/1&2 N64-16357 08-07

LOSS OF MASS EXPLAINED IN TERMS OF OXIDATION RATES OF CARBONACEOUS MATERIALS FROM PLASMA ARC TESTS
NASA-CR-55837 N64-16713 08-19

OXIDATION MECHANISM OF TITANIUM
RSIC-135 N64-16970 09-18

APPARATUS FOR STUDYING KINETICS OF OXIDATION IN METALS N64-17065 09-07

ROLE OF NITROGEN IN HIGH TEMPERATURE OXIDATION OF CHROMIUM IN AIR N64-17069 09-07

TITANIUM SURFACE STRENGTHENING BY NITRATION, OXIDATION, AND METAL PLATING - TITANIUM PLATING OF STEEL
JPRS-23913 N64-17736 09-18

REACTION OF GASEOUS OXYGEN WITH TUNGSTEN AND TANTALUM IN INITIAL STAGES OF OXIDATION
AROD-2734-2 N64-18910 11-07

KINETICS OF HIGH TEMPERATURE OXIDATION OF MOLYBDENUM BY DISSOCIATED OXYGEN
TP-84 N64-19085 11-18

BACTERIAL CELL DIVISION IN RELATION TO OXIDATION-REDUCTION POTENTIAL CHANGE FOR EXTRATERRESTRIAL LIFE DETECTION
NASA-CR-53734 N64-19577 12-16

EMBRITTLEMENT, OXIDATION, AND HIGH POWER-DENSITY EFFECTS ON ENERGY-MATERIAL INTERACTIONS
CAL-NM-1559-P-6 N64-20093 13-18

KINETICS AND AERODYNAMICS OF OXIDATION OF METALS

BY PARTIALLY DISSOCIATED OXYGEN
AEROCHEM-TN-61 N64-20352 13-18

OXIDATION OF FERROUS ION IN SOLUTIONS OF SULFAMIC AND NITRIC ACIDS
DP-871 N64-20489 13-07

FURNACE OXIDATION, AND ENVIRONMENTAL TESTING OF COATED NIOBIUM ALLOY FOILS
RDR-1325-7 N64-20856 14-18

OXIDATION RATE OF IRON POWDER AT HIGH TEMPERATURE
TIL/T-5483 N64-21196 14-18

OBTAINING ELEMENTAL BORON BY HYDROGEN REDUCTION OF BORON HALIDES
FTD-TT-62-1638/1&2&4 N64-21656 15-07

EFFECTS OF OXIDATION ON PERFORMANCE OF CHARRING ABLATING MATERIALS
NASA-TR-R-196 N64-22025 15-19

HIGH TEMPERATURE OXIDATION OF DISPERSED ALUMINUM
FTD-TT-62-1833/1&2&4 N64-22640 15-07

COMBUSTIBLE CATALYTIC REACTOR TO STUDY OXIDATION VAPOR AND AEROSOL OF ORGANIC COMPOUNDS
NRL-6040 N64-24082 16-23

OXIDATION OF CESIUM AT LOW TEMPERATURES AND PRESSURES
AEDC-TDR-64-111 N64-24164 16-18

FATIGUE AND OXIDATION OF HIGH TEMPERATURE ALLOYS
JPRS-24826 N64-24530 17-18

DIFFUSION AND OXIDATION PROCESSES IN ALLOY UNDER CONDITIONS OF THERMAL CYCLING N64-24534 17-18

DYNAMIC EQUATIONS OF AIR INTAKE & CONTROL SYSTEMS FOR TURBOJET ENGINES OPERATING IN TURBULENT ATMOSPHERES N64-25434 17-04

TANTALUM OXIDATION DURING SIMULATED REENTRY
SC-RR-64-575 N64-25609 17-13

OXIDATION, ETCHING, AND DIFFUSION PROCESSES FOR FUNCTIONAL ELECTRONIC BLOCKS AND OTHER PLANAR SEMICONDUCTOR DEVICES
ASD-TDR-8-133-3 N64-26502 18-17

OXIDATION OF URANIUM B THALLIUM IN AQUEOUS CHLORIDE SOLUTION
SC-RR-64-552 N64-26639 18-07

ELECTROCHEMICAL OXIDATION OF TITANIUM DIBORIDE
NASA-TN-D-2410 N64-27093 19-07

OXIDATION BEHAVIOR OF MOLYBDENUM, TUNGSTEN, NIOBIUM, AND TANTALUM IN GASEOUS ATMOSPHERES OF OXYGEN-NITROGEN, CARBON MONOXIDE-CARBON DIOXIDE, AND HYDROGEN-WATER MIXTURES N64-27588 19-18

SEMIQUINONE FREE RADICALS IN SYSTEMS MODELLING BIOLOGICAL OXIDATION N64-28036 20-16

SORPTION OF ORGANIC FUELS DURING OXIDATION AT ELECTRODES
AROD-3472-3 N64-29012 20-07

OXIDATION AND SURFACE ACTIVITY OF PLATINUM MONOCRYSTALLINE SPHERICAL ELECTRODES
FTD-TT-64-156/1&2 N64-30132 21-25

OXIDATION REACTIONS OF CARBON MONOXIDE IN PRESENCE OF CARBON AND OXYGEN
GDA-DBE-64-001 N64-30766 22-07

OXIDATION RATE OF CESIUM AT REDUCED PRESSURE AND TEMPERATURE
AEDC-TDR-64-195 N64-31042 22-07

CHELATE CATALYST FOR ELECTROCHEMICAL OXIDATION OF HYDROCARBON FUELS AT MODERATE TEMPERATURE
MRB-4012SA1 N64-31112 22-07

ELECTROCHEMICAL OXIDATION OF FORMIC ACID ON PLAIN PLATINUM ELECTRODE
SR-5 N64-31281 22-07

FORMATION OF FATTY ACIDS BY OXIDATION OF ALKYLAT GASOLINE FRACTION
FTD-MT-64-02 N64-31915 23-

OXIDATION RATES AND ACTIVATION ENERGIES OF ALTERNATELY IRRADIATED AND ANNEALED GRAPHITES
BNL-7567-R2 N64-32370 23-

ELECTROCHEMICAL OXIDATION OF BARRIER LAYER METAL
N64-32843 24-

CATALYSIS IN ELECTROCHEMICAL ENERGY CONVERSION A ELECTROCHEMICAL OXIDATION OF HYDROCARBON PARALLEL REACTIONS
NASA-CR-59094 N64-33197 24-

ELECTROCHEMICAL OXIDATION OF MOLECULAR PARALLEL REACTIONS N64-33199 24-

CHEMISTRY OF OXIDIZERS AND OXIDATION MECHANISMS - REACTIONS OF PERCHLORYL FLUORIDE WITH ORGANIC COMPOUNDS
SAR-2 N64-33243 24-

INITIAL STAGES OF OXIDATION OF MOLYBDENUM
AROD-4397-2 N64-33665 24-1

CHELATE CATALYST FOR ELECTROCHEMICAL OXIDATION OF HYDROCARBON FUELS AT MODERATE TEMPERATURES
AD-434194L N64-33983 24-

OXIDATION RESISTANCE
TOTAL HEMISPHERICAL & NORMAL SPECTRAL EMITTANCES OF OXIDATION PROTECTIVE COATINGS
ASD-TDR-63-269 N64-12663 04-1

TESTS OF BORIDES OF TITANIUM, ZIRCONIUM, TANTALUM HAFNIUM, AND NIOBIUM AS COMPOUNDS WITH HIGH TEMPERATURE OXIDATION RESISTANCE
RTD-TDR-63-4096, PT. 1 N64-15100 07-1

OXIDATION-RESISTANT COATINGS FOR REFRACTORY METAL AND ALLOYS N64-17216 09-1

POLAROGRAPHIC STUDY OF OXIDATION INHIBITORS - NITRODIPHENYLAMINES AND NITRORESORCINOLS
RK-TR-63-26 N64-18191 10-0

OXIDATION RESISTANT COATINGS FOR REFRACTORY METAL
AD-437376 N64-19164 11-1

OXIDATION RESISTANCE OF PROTECTIVE COATINGS FOR TUNGSTEN AT 2000 DEG C
ASD-TDR-63-744 N64-19307 12-1

DUCTILE COATING FOR OXIDATION PROTECTION OF NIOBIUM AND MOLYBDENUM ALLOYS
BMPR-4 N64-20103 13-1

VANADIUM, NIOBIUM, MOLYBDENUM, AND TUNGSTEN AS OXIDATION-RESISTANT COATINGS FOR REFRACTORY METALS
AD-435100 N64-20287 13-1

OXIDATION PROTECTIVE COATINGS FOR VANADIUM-BASE ALLOYS
IITRI-B6019-3 N64-21556 15-1

HIGH TEMPERATURE OXIDATION RESISTANT COATING
N64-25414 17-1

PLASMA TORCH OXIDATION RESISTANCE AND EROSION - EVALUATION OF PYROLYTIC MATERIALS
N64-25425 17-1

OXIDATION RESISTANT GRAPHITE BASE DEPOSITS
WADD TR-61-72 N64-25579 17-1

OXIDATION RESISTANCE, EMITTANCE, AND DIFFUSION STABILITY OF PROTECTIVE COATINGS FOR AIRCRAFT STRUCTURES
TFD-63-522 N64-25998 18-1

EROSION AND OXIDATION RESISTANT COATING FOR GRAPHITE
REPT.-5-RD-64 N64-26201 18-2

LOW PRESSURE EFFECT ON OXIDATION PROTECTION OF SILICIDE COATINGS ON MOLYBDENUM AND COATING OF MOLYBDENUM COMPONENTS N64-27007 19-1

HIGH TEMPERATURE OXIDATION RESISTANT PROTECTIVE COATINGS FOR REFRACTORY ALLOYS, COMPOSITE MATERIAL DEVELOPMENT, AND THERMAL RADIATION MEASUREMENT
N64-27025 19-18

OXIDATION-RESISTANT PROTECTIVE COATINGS FOR REFRACTORY ALLOYS
N64-27030 19-18

PLASMA ARC TESTS ON PYROLYTIC MATERIALS FOR OXIDATION RESISTANCE AND EROSION EVALUATION
NASA-CR-58148 N64-27819 19-18

HIGH TEMPERATURE OXIDATION RESISTANT PROTECTIVE COATINGS FOR VANADIUM ALLOYS
IITRI-B6019-4 N64-27861 19-18

DIFFUSION EFFECTS OF SILICATE-BASE OXIDATION RESISTANT COATING ON MOLYBDENUM-TITANIUM ALLOY
NASA-TN-D-2039 N64-28321 20-17

OXIDATION RESISTANT COATINGS ON MOLYBDENUM BASE ALLOYS - SILICIDE BASE COATINGS
NASA-TN-D-2040 N64-28332 20-17

HIGH TEMPERATURE PROTECTIVE COATINGS TO CONTROL OXIDATION OF GRAPHITE
ML-TDR-64-173, PT. I N64-28570 20-17

DUCTILE COATING FOR OXIDATIVE PROTECTION OF NIOBIUM AND MOLYBDENUM ALLOYS
BPR-5 N64-28611 20-18

BINARY HAFNIUM-TANTALUM ALLOY FOR OXIDATION-PROTECTIVE COATING OF TUNGSTEN & TUNGSTEN-ALLOY SUBSTRATES AT VERY HIGH TEMPERATURES
REPT.-25116, VOL. 10 N64-29233 21-18

IMPROVED ATMOSPHERIC OXIDATION RESISTANCE IN CHROMIUM COMPOSITE MATERIALS
QR-1 N64-29842 21-18

SCALE UP OF SILICIDE ALLOY COATING TO PROTECT MOLYBDENUM ALLOYS AGAINST HIGH TEMPERATURE OXIDATION
ML-TDR-64-84 N64-29976 21-18

REFRACTORY MATERIALS FOR HIGH TEMPERATURE OXIDATION-RESISTANT GRAPHITE COATINGS
WADD-TR-61-72, VOL. XXXIV N64-31307 22-17

PACK SILICIDE AS HIGH TEMPERATURE OXIDATION PROTECTIVE COATING FOR VANADIUM ALLOYS
IITRI-B6019-5 N64-32200 23-17

COLUMBIUM ALLOY THREADED FASTENERS WITH OXIDATION RESISTANT METALLIC COATINGS
PR-3 N64-32655 23-17

STAINLESS STEEL - COMPOSITION, PROPERTIES, STRUCTURE, AND RESISTANCE TO CORROSION, OXIDATION, AND RADIATION
DP-860, VOL. 1 N64-33060 24-18

XIDE
SA ALUMINUM OXIDE
SA BERYLLIUM OXIDE
SA DIOXIDE
SA MAGNESIUM OXIDE
SA METAL OXIDE
SA NICKEL OXIDE
SA OXYGEN COMPOUND
SA PEROXIDE
SA SILICON OXIDE
SA SILVER OXIDE
SA THORIUM OXIDE
SA URANIUM OXIDE
ELECTROLYTIC PREPARATION OF HIGH DIELECTRIC CONSTANT TITANIUM OXIDE FILMS
NASA-CR-52190 N64-10096 01-09

SPECTROCHEMICAL METHOD FOR ANALYSIS OF ZIRCONIA FOR LOW HAFNIA CONTENT
AEET/ANAL/27, REV. N64-10229 01-19

RADIOACTIVE CARBON DETERMINATION OF TEMPERATURE OF METAL OXIDES AND HEAT RESISTANCE OF METAL CARBIDE BASE ALLOYS
JPRS-18731 N64-10579 01-18

OXIDE SINTERING BY ELECTROCONDUCTIVITY
JPRS-18350 N64-10640 01-09

TITANIUM OXIDES PULVERIZATION AND CONDENSATION BY ELECTRON BOMBARDMENT TO OBTAIN SUPER-HIGH VACUUM
N64-11003 02-23

INFLUENCE OF TITANIUM, ZIRCONIUM, AND THORIUM OXIDES UPON THE RECRYSTALLIZATION OF MOLYBDENUM
N64-11016 02-18

RADIATION METHOD FOR PREPARING FINELY DIVIDED METALS & METAL OXIDES
N64-11480 03-17

SURFACE ENERGY OF OXIDES, SULFIDES, AND SELENIDES
NASA-TT-F-167 N64-11563 03-25

OXIDE SYSTEMS EVALUATION AND OXIDE PARTICLE DEVELOPMENT
AD-422406 N64-12038 03-07

BONDING IN OXIDE FIBER WHISKER REINFORCED METAL MATERIALS
AMRA-CR-63-01/2 N64-12044 03-19

ELECTRON PARAMAGNETIC RESONANCE SPECTRA OF HYDRATED ELECTRON IN IRRADIATED FROZEN POTASSIUM HYDROXIDE SOLUTION
N64-12496 04-23

VAPORIZATION OF IRON OXIDES AND ANALYSIS OF SPECIES BY MASS SPECTROMETER
UCRL-10991 N64-13216 04-07

LOW-PRESSURE ARC SOURCE FOR EMISSION SPECTRUM OF FERROUS OXIDE
N64-13341 04-23

ELECTRON & ION EMISSION FROM LASER-HEATED OXIDE CATHODES
N64-13798 05-25

POSTIRRADIATION RELEASE OF XENON-133 FROM OXIDE CERAMICS
BMI-1651 N64-14050 05-23

OXIDE-COATED CATHODES FOR HIGH POWER LOW NOISE ELECTRON TUBE
RADC-TDR-63-462 N64-14297 06-09

SPUTTERING METHOD FOR PREPARATION OF DIELECTRIC FILMS OF TITANIUM OXIDE - CAPACITOR APPLICATION
RADC-TDR-63-491 N64-14630 06-09

HAZARDS OF PLUTONIUM OXIDE - HYDROGENOUS COMPACT CRITICAL MASS EXPERIMENTS
HW-66266, SUPPL. 1, REV. N64-14922 06-23

FLAME FUSION TECHNIQUE FOR GROWING OXIDE CRYSTALS
N64-15013 07-25

URANIUM AND PROTACTINIUM EXTRACTION FROM MOLTEN FLUORIDE SYSTEMS BY OXIDE PRECIPITATIONS
N64-15658 07-07

DENSITY, PARTICLE SIZE, AND SURFACE AREA OF CERIA POWDERS DERIVED FROM SALTS
BM-RI-6375 N64-15991 07-19

ZINC-POTASSIUM HYDROXIDE-MERCURIC OXIDE RECHARGEABLE ELECTROCHEMICAL CELL FOR AEROSPACE APPLICATION
APL-TDR-64-15 N64-16094 07-06

OXYGEN TO METAL RATIO IN SOLID SOLUTIONS OF URANIUM AND PLUTONIUM DIOXIDES
GEAP-4271 N64-16125 08-07

COMPOSITE, HARD-GRAIN, DUCTILE MATRIX BODIES OF HIGH COMPRESSIVE STRENGTH PRODUCED BY ISOSTATIC PRESSING AND FIRING - OXIDES AND CARBIDES
Y-1450 N64-16314 08-19

REINFORCED METAL COMPOSITE PREPARATION BY ELECTRO-DEPOSITION AND VAPOR DEPOSITION OF METALS AND OXIDES ON METAL FIBERS
N64-16315 08-18

DIOXANE SULFUR TRIOXIDE FOR QUANTITATIVE ANALYSIS OF ACTIVE HYDROGEN IN ALCOHOLS AND AROMATIC AMINES
TIL/T-5451 N64-16527 08-07

THERMODYNAMICS OF INTERSTITIAL SOLID SOLUTIONS AND

REFRACTIVE COMPOUNDS - CARBIDES, OXIDES, AND NITRATES
ASD-TR-61-445, PT. 3 N64-16801 08-25

BONDING IN OXIDE-FIBER REINFORCED MATERIALS - ALUMINUM OXIDE & NICKEL ALLOYS
AMRA-CR-63-01/5 N64-16993 09-19

BINDING ENERGY OF OXIDES OF TRANSITION METALS
N64-17063 09-25

APPARATUS FOR STUDYING KINETICS OF OXIDATION IN METALS N64-17065 09-07

SOLUBILITY OF METAL OXIDES IN SUPERCRITICAL AQUEOUS SOLUTIONS IN STUDY OF SINGLE CRYSTAL GROWTH
AFCRL-64-38 N64-17124 09-25

CONSERVATION AND PREPARATION OF ARTIFICIAL STEROIDS BY HYDROGENATION WITH SELENIUM DIOXIDE
EUR-412.F N64-17542 09-07

SEMICONDUCTING OXIDE GLASSES
NASA-CR-53199 N64-17587 09-23

FUEL ELEMENT - PLUTONIUM WITH MIXED OXIDES FOR PLUTONIUM RECYCLE TEST REACTOR
HW-79291 N64-17703 09-19

MEASURING THERMODYNAMIC PROPERTIES, THERMOELECTRIC POWER, AND ELECTRICAL CONDUCTIVITY OF METAL OXIDES
RTD-TDR-63-4196 N64-18590 11-25

INFRARED SPECTRUM ANALYSIS OF MOLECULES VAPORIZED FROM OXIDES OF ZIRCONIUM, HAFNIUM, AND THORIUM BY MATRIX ISOLATION N64-18804 11-07

THERMODYNAMIC PROPERTIES OF VARIOUS OXIDES AND CARBIDE VAPORIZATION N64-18806 11-13

VAPOR PRESSURE OVER OXIDE SYSTEMS OF ALUMINUM, BORON, BERYLLIUM, AND LITHIUM MEASURED AS FUNCTION OF COMPOSITION N64-18820 11-13

REACTION OF GASEOUS OXYGEN WITH TUNGSTEN AND TANTALUM IN INITIAL STAGES OF OXIDATION
AROD-2734-2 N64-18910 11-07

EFFECT OF DYNAMIC & STATIC PRESSURE ON DENSITY OF POWDER MIXTURE OF IRON, LITHIUM, NICKEL, & ZINC OXIDES
ERR-FW-212 N64-18947 11-17

X-RAY DIFFRACTION AND OPTICAL MICROSCOPIC DATA ON PHASES IN BINARY OXIDES
BM-RI-6428 N64-19294 11-19

WATER ADSORPTION ON GERMANIUM OXIDE POWDER, AND RESISTANCE CHANGES OF THIN SINGLE CRYSTALS OF GERMANIUM DUE TO ADSORPTION
AD-434381 N64-19550 12-25

INFRARED ABSORPTION SPECTRUM OF CERIUM /VALENCE 3/ IN SILICA AND BORAX GLASS N64-20928 14-23

MELTING POINT TABLES FOR METAL OXIDES
N64-21203 14-19

MASS SPECTROMETRIC DETERMINATION OF DISSOCIATION ENERGY OF VARIOUS METALLIC OXIDES
WADD-TR-60-782, PT.XXII N64-21456 14-19

CHEMICAL REACTION OF HYDROXYLAMINE WITH ISONITROACETOPHENONE
RSIC-167 N64-21585 15-07

INORGANIC RARE EARTH OXIDES, RADIATION EMANATION OF NEODYMIUM IONS, TANTALUM CALCITE, & LEAD OXIDE-

BISMUTH OXIDE
JPRS-24372 N64-21857 15-

LIGHT & SPECTROSCOPIC PROPERTIES OF INORGANIC VITREOUS RARE EARTH OXIDE N64-21858 15-

LEAD & BISMUTH OXIDE FUSED BODIES
N64-21861 15-

SEPARATION AND DETERMINATION OF NIOBIUM AND TANTALUM CHLORINATED OXIDES FROM UNREACTED EARTH ACIDS
AEET/ANAL/15 N64-22253 15-

TITANIUM OXIDE COATING ON SINGLE CRYSTAL ALUMINA FIBERS
TR-2 N64-22522 15-

STABILITY OF SELECTED OXIDES, NITRIDES AND BORIDE IN MOLYBDENUM TO 4000 DEG F
SSD-TDR-64-88 N64-22560 15-

CREEP AND BENDING STRAIN RATE MEASUREMENTS OF TITANIUM DIOXIDE SINGLE CRYSTALS AT HIGH TEMPERATURES
ML-TDR-64-114 N64-22564 15-

THERMODYNAMIC PROPERTIES OF ALUMINUM-BORON-OXYGEN AND BERYLLIUM-BORON-OXYGEN SYSTEMS
QR-7 N64-22708 15-

ALKALI METAL ANODES IN LIQUID SULFUR DIOXIDE ELECTROLYTIC SOLUTIONS N64-22884 16-

SOLVENT PROPERTIES OF DIMETHYL SULFOXIDE
N64-22885 16-

PARAMAGNETIC CENTERS IN GERMANIUM OXIDE GLASS CAUSED BY ELECTRON BOMBARDMENT AND GAMMA RADIATIO
ORNL-3635 N64-23212 16-

PARTICLE SIZE SEPARATION OF TITANIUM DIOXIDE PIGMENTS
NASA-CR-78 N64-23912 16-

THERMAL RADIATION CHARACTERISTICS OF REFRACTORY OXIDES UNDER NONISOTHERMAL CONDITIONS
ASD-TDR-62-719 N64-24182 16-

ANNOTATED BIBLIOGRAPHY ON GROWTH OF METAL AND METALLIC OXIDE WHISKERS
SB-63-68 N64-26714 18-

MORPHOLOGY OF LEAD OXIDE IN POSITIVE PLATES OF LEAD-ANTIMONY AND LEAD-CALCIUM STORAGE BATTERIES
NRL-6048 N64-26815 18-

OBSERVATION OF IRON OXIDE IN ABSORPTION BY FLASH HEATING AND KINETIC SPECTROSCOPY
N64-27796 19-

SINTERING OF METAL OXIDES
REPT.-02832-16-1 N64-28459 20-

BEHAVIOR OF GERMANIUM OXIDE, SILICON OXIDE, AND THEIR MIXTURES AT HIGH TEMPERATURES AND VERY HIGH PRESSURES
TR-8 N64-29021 21-

CURIE TEMPERATURE OF IRON OXIDE
TN-3 N64-29617 21-

CHARACTERISTIC ABSORPTION BAND FEATURES IN INFRARED SPECTRA OF TRANSITION METAL ALKOXIDES
ML-TDR-64-124 N64-29901 21-

HEAT OF FORMATION OF LIQUID PHOSPHORUS OXYCHLORIDE
AD-442826 N64-30038 21-

MOSSBAUER APPARATUS FOR MAGNETIC STUDIES OF FERRIC OXIDE, FERROUS OXIDE, KRYPTON, AND CLATHRATES
AD-602465 N64-30043 21-

CHEMICAL REACTIONS OF OXIDES WITH HALIDES, CARBONATES, SULFATES, AND NITRATES
FTR-1964 N64-30665 22-

SPECTRAL AND MAGNETO-CHEMICAL STUDIES OF 5-TRIFLUOROMETHYLTETRAZOL COMPLEXES, COPPER COMPLEXES OF SUBSTITUED BENZOIC ACIDS, AND COPPER HALIDE COMPLEX WITH PYRIDINE N-OXIDE SUBSTITUTIONS
SR-9 N64-31093 22-07

ELECTRICAL AND THERMAL PROPERTIES AND APPLICATIONS OF OXIDE SEMICONDUCTOR MATERIALS
REPT.-10 N64-31131 22-25

MIXED BISMUTH OXIDE TYPE FERROELECTRICS WITH LAYER-TYPE STRUCTURE
AL-TDR-64-124 N64-31932 23-25

RAW MATERIALS FOR REFRACTORY OXIDE CERAMICS
ML-TDR-64-110 N64-31969 23-17

INTEGRATED LOGIC NETS - METAL OXIDE SEMICONDUCTING TRANSISTOR ANALYSIS
AFCRL-64-649 N64-31996 23-09

FORMATION HEAT OF CRYSTALLINE AND AMORPHOUS BORON OXIDE N64-32268 23-07

ELECTRICAL BEHAVIOR OF CHARGE AND MASS TRANSPORT MECHANISMS IN REFRACTORY METAL OXIDES
ARL-64-122 N64-32627 23-25

ELECTRIC AND CHEMICAL PROPERTIES OF BARRIER LAYER METAL OXIDES, X-RAY ANALYSIS OF STEEL CRYSTAL STRUCTURES, AND SPECTRAL ANALYSIS OF ALLOYS
JPRS-26774 N64-32842 24-18

ELECTROCHEMICAL OXIDATION OF BARRIER LAYER METALS N64-32843 24-07

PROPERTIES OF IMMISCIBLE LIQUIDS FORMED FROM MIXTURES OF FUSED BORON OXIDE, SODIUM HALIDE, AND SODIUM METABORATE
USNRDL-TR-752 N64-33370 24-07

KINETICS OF REDUCTION OF SURFACE OXIDES FORMED ON GOLD ELECTRODES
TM-6 N64-33756 24-06

ELECTRICAL AND INFRARED PROPERTIES OF GLASS IN BISMUTH OXIDE-TELLURIUM OXIDE SYSTEM
NASA-TM-X-53110 N64-33869 24-25

OXIDE FILM
OXIDE FILM ON ZIRCONIUM-NIOBIUM AND ZIRCONIUM-NIOBIUM-MOLYBDENUM ALLOYS IN AIR N64-13729 05-18

ELECTRON DIFFRACTION AND X-RAY PHOTOGRAPHY OF OXIDE FILM ON NIOBIUM AFTER CONTROL OXIDATION N64-13732 05-23

ELECTRON DIFFRACTION STUDY OF PHASE CHANGES IN THIN METAL AND OXIDE FILMS N64-17064 09-25

OXIDE THIN FILM LAYER EFFECT ON SHEAR STRENGTH OF METAL CRYSTALS
BMPR-2 N64-18464 10-25

PROPERTIES AND EFFECTS OF THICK OXIDE FILMS FORMED BY ANODIZATION OF ALUMINUM AND TITANIUM ALLOYS
JPRS-24627 N64-20919 14-18

CELLULAR STRUCTURE OF THICK OXIDE FILMS OF ANODIZED ALUMINUM AND ALUMINUM ALLOYS N64-20920 14-18

MECHANICAL PROPERTY CHANGES OF ALUMINUM ALLOYS WITH INCREASING THICKNESS OF OXIDE FILM FORMED BY ANODIZATION N64-20921 14-18

WEIGHT AND THICKNESS DETERMINATION OF OXIDE FILMS ON ANODIZED TITANIUM N64-20922 14-07

PHYSICAL AND CHEMICAL PROPERTIES OF THICK OXIDE FILMS OF ANODIZED ALUMINUM ALLOYS N64-20923 14-18

OXIDE FILM TENACITY ON ALLOYS EXPOSED TO REACTOR COOLANTS
HW-79811 N64-25533 17-18

ELECTRIC PROPERTIES OF BARRIER LAYER OXIDE FILMS AND MECHANISM OF ELECTROLYTIC RECTIFICATION N64-32844 24-25

OXIDIZER
SA HIGH ENERGY OXIDIZER
SA LIQUID OXIDIZER
SA PROPELLANT OXIDIZER
LUBRICANT GREASES NONREACTIVE WITH MISSILE FUELS AND OXIDIZERS
FA-A63-10 N64-12705 04-26

ADVANCED OXIDIZER MOLECULAR ORBIT CALCULATIONS AND NONBONDED INTERACTIONS IN POLYATOMIC MOLECULES
S-13892 N64-12819 04-26

DECOMPOSITION OF DIFLUORODAMINE AND SYNTHESIS OF METAL DIFLUORODAMINE COMPOUNDS - OXIDIZER CHEMISTRY
EC-572 N64-14487 06-07

SYNTHESIS OF NITRO-OXYLFLUORIDE OXIDIZERS BY FISSION FRAGMENT RECOIL
AN-1119 N64-14694 06-26

CHEMICAL BEHAVIOR OF INORGANIC NITROGEN-FLUORINE COMPOUNDS AND SYNTHESIS OF METAL DIFLUORODAMINE COMPOUNDS - OXIDIZER CHEMISTRY
EC-599 N64-17645 09-26

OXIDIZER RESEARCH - THERMOCHEMICAL DATA, INTRAMOLECULAR INTERACTION, AND REPULSIVE ENERGY IN ALKALI HALIDES
S-13907 N64-17783 09-26

SHOCK TUBE SYNTHESIS OF NITROGEN FLUORIDES FOR USE AS OXIDIZERS
S-13913 N64-20328 13-07

FLUORINE OXIDIZERS - ELECTROLYTIC STUDIES IN BROMINE FLUORINE COMPOUNDS
QTSR-3 N64-22126 15-07

LIGHT METAL FUELS AND OXIDIZER CHEMISTRY
EC-636 N64-25701 17-26

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON DIOXIDE
AMRL-TDR-64-35 N64-27432 19-16

MINIMUM FUEL AND OXIDIZER TANK ULLAGES FOR GEMINI LAUNCH VEHICLE
REPT.-0788-MU-1 N64-31887 23-27

SYNTHESIS OF OXIDIZERS BY NITROGEN FLUORIDE REACTIONS WITH SIMPLE MOLECULES AT ELEVATED TEMPERATURES USING CHEMICAL SHOCK TUBE
S-13921 N64-32472 23-26

INORGANIC OXIDIZERS - STABLE IONS OF OXYGEN-FLUORINE AND NITROGEN-FLUORINE COMPOUNDS
RPL-TDR-64-98 N64-32553 23-26

CHEMISTRY OF OXIDIZERS AND OXIDATION MECHANISMS - REACTIONS OF PERCHLORYL FLUORIDE WITH ORGANIC COMPOUNDS
SAR-2 N64-33243 24-07

OXYGEN
SA OZONE
ANALYSES FOR OXYGEN IN LIQUID ALKALI METALS
NASA-CR-52184 N64-10088 01-18

INTERNAL FRICTION DUE TO OXYGEN IN SINGLE CRYSTAL SILVER WIRE UNDER TORSIONAL STRESS
UCRL-11017 N64-10186 01-18

PHOTOCHEMICAL DISTRIBUTION OF OZONE IN OXYGEN ATMOSPHERES
SAD-123 N64-10225 01-12

FREE OXYGEN IN EARTH ATMOSPHERE RESULTING FROM PHOTODISSOCIATION OF WATER VAPOR PRIOR TO ORGANIC LIFE
NASA-TT-F-86 N64-10522 01-12

OXYGEN-URANIUM RATIO EFFECT ON THERMAL CONDUCTION OF URANIUM OXIDE

CRDC-1153 N64-10615 01-13

STATIC MOISTURE REMOVAL SYSTEM FOR CAPILLARY HYDROGEN-OXYGEN FUEL CELL
NASA-CR-52652 N64-11120 02-06

OXIDATION OF N-DECANE WITH OXYGEN
N64-11159 02-07

FUEL CELLS - ELECTROCHEMICAL COMBUSTION, HYDROGEN-OXYGEN ELEMENTS & BATTERIES
JPRS-22148 N64-11275 02-06

HYDROGEN-OXYGEN ELECTROLYTIC REGENERATIVE FUEL CELLS
NASA-CR-55059 N64-11809 03-06

MASS & ENERGY TRANSFER, FLOW CHARACTERISTICS, KINETICS OF VARIOUS SYSTEMS, AND STATE EQUATIONS FOR HELIUM AND OXYGEN
JPRS-22321 N64-11965 03-01

STATE EQUATION FOR MOLECULAR OXYGEN & THERMODYNAMIC PROPERTIES N64-11972 03-23

AUXILIARY ELECTRODES TO INCREASE RECOMBINATION RATE OF OXYGEN GENERATED IN SEALED SILVER-CADMIUM CELLS DURING CHARGING
NASA-CR-55014 N64-12025 03-06

MAXIMIZATION OF OZONE YIELD IN RADIOLYSIS OF OXYGEN
JLI-2901-0-1 N64-12129 03-07

EFFECT OF OXYGEN ON PROPERTIES & HEAT TREATMENT OF TITANIUM ALLOY
JPRS-22595 N64-12151 03-18

CONTINUOUS FUNCTIONAL TESTING OF OXYGEN BREATHING EQUIPMENT
SAM-TDR-63-56 N64-12176 03-16

SIMULATED SPACECRAFT ATMOSPHERE - EFFECT OF PROLONGED EXPOSURE TO OXYGEN AT HIGH PARTIAL PRESSURES ON MAN
SAM-TDR-63-52 N64-12321 03-16

ATMOSPHERIC OXYGEN CONTENT EFFECT ON BURNING RATE OF FABRICS
NADC-MA-6316 N64-12378 03-26

EYE MELANIN FREE-RADICAL KINETICS & MECHANISM IN RELATION TO ADSORPTION OF OXYGEN BY SEMICONDUCTORS
NADC-MA-6320 N64-12597 04-09

ARTIC LOW TEMPERATURE TEST OF YUH-1D HELICOPTER
AFCRL-63-343 N64-12679 04-09

INELASTIC SCATTERING OF HIGH ENERGY ELECTRONS FROM CARBON, OXYGEN, AND CALCIUM
AD-424383 N64-12924 04-23

ALPHA PARTICLE ENERGY SPECTRA FROM DEUTERON-ALPHA REACTIONS ON LITHIUM, BERYLLIUM, CARBON, NITROGEN, & OXYGEN USING 24-MEV DEUTERONS
UCRL-10993 N64-13217 04-23

IODIDE REFINING OF ZIRCONIUM AND ZIRCONIUM IODIDE FOR REDUCTION OF NONMETALLIC IMPURITIES - CARBON, OXYGEN, NITROGEN, AND HYDROGEN N64-13727 05-17

GASEOUS LASER USING NEON-HELIUM OR OXYGEN TO PRODUCE OPTICAL RADIATION
NASA-CR-55276 N64-13929 05-25

NONEQUILIBRIUM EXPANSION FLOW OF DISSOCIATED OXYGEN GENERATED BY SUPERSONIC SHOCK WAVE AROUND A CORNER
UTIA-91 N64-13964 05-23

THERMODYNAMIC PROPERTIES OF ARGON, NITROGEN AND OXYGEN PLASMAS
AEDC-TDR-64-12 N64-14139 05-24

THERMODYNAMIC PROPERTIES OF LIQUID & GASEOUS OXYGEN
NASA-CR-55332 N64-14290 06-19

PARAMETER AND GRAPHIC COMPARISON OF TWO MELTING EQUATIONS FOR GASES AND METALS - HYDROGEN, OXYGEN SODIUM, & POTASSIUM
NASA-CR-55331 N64-14291 06-2

REACTION RATES OF HYDROGEN, AMMONIA, & METHANE IN MIXTURES OF ATOMIC & MOLECULAR OXYGEN
NASA-RP-120 N64-14860 06-0

INTRAVASCULAR AIR BUBBLE FORMATION AFTER OXYGEN DECOMPRESSION IN ALBINO RATS WITH ELECTROLYTIC SALT SOLUTIONS IN PLASMA N64-15040 07-1

OXYGEN DECOMPRESSION SICKNESS RESULTS ON RATS APPLIED TO HUMAN RESPIRATION PHYSIOLOGY
N64-15042 07-1

ABSORPTION OF OXYGEN IN 2.5 MILLIMETER WAVELENGTH
AD-428845 N64-15098 07-2

RAPID OXYGEN DIFFUSION IN BERYLLIUM OXIDE
NAA-SR-7637 N64-15150 07-2

INTERACTION ENERGY LEVELS AND TRANSPORT COEFFICIENTS OF LITHIUM-HYDROGEN AND OXYGEN-HYDROGEN GAS MIXTURES AT HIGH TEMPERATURES
N64-15275 07-2

ELECTRIC CELL RESEARCH - HYDROGEN ELECTRODES, SILVER OXIDE ELECTRODES, AND OXYGEN ELECTRODES FOR REGENERATIVE FUEL CELLS
NASA-CR-55664 N64-15536 07-0

PHASE DIAGRAMS FOR ELECTROLYTES, OXYGEN IN FUSED FLUORIDE ELECTROLYTE, ANALYSIS OF URANIUM ALLOYS, AND METHOD FOR ANALYZING HIGH PURITY MAGNESIUM
MCW-1482 N64-15561 07-1

GAS CHROMATOGRAPHIC ANALYSIS OF LOW MOLECULAR WEIGHT TRACE HYDROCARBONS PRESENT IN OXYGEN AND NITROGEN
WRE-TN-CPD-73 N64-15565 07-0

STANDARDIZED TITRATION OF OXYGEN AND NITROGEN WITH NITROGEN DIOXIDE AND NITROGEN OXIDE FOR GAS PHASE CONCENTRATION DETERMINATIONS
SR-4-3 N64-15751 07-2

OXYGEN IN ATMOSPHERE OF VENUS
NASA-CR-53061 N64-15781 07-2

PRESSURE, TEMPERATURE, PLATINUM-PALLADIUM CATALYST, AND ELECTROLYTIC PURITY EFFECTS ON HYDROGEN AND OXYGEN ELECTRODES
NASA-CR-55299 N64-15905 07-0

REDUCTION OF OXYGEN IN TANTALUM BY REACTIVE METALS
LAMS-3022 N64-15911 07-1

IRREVERSIBILITY OF OXYGEN CATHODE REDUCTION TO PEROXIDE IN FUEL CELL SYSTEMS - EFFECTS OF ELECTRODE AND ELECTROLYTE VARIATIONS
AD-429248 N64-15934 07-0

SHOCK FRONT STRUCTURE IN OXYGEN IN SHOCK TUBE AT HYPERSONIC SPEEDS - DEFENDER PROJECT
AVCO-EVERETT RES. REPT.-169 N64-15939 07-2

SOLAR ULTRAVIOLET RAY EFFECT ON OXYGEN MOLECULE DISSOCIATION IN POLAR UPPER ATMOSPHERE
NASA-TR-R-141 N64-16005 07-1

HIGH TEMPERATURE SORPTION OF OXYGEN AND NITROGEN BY NIOBIUM IN ULTRAHIGH VACUUM
TID-19489 N64-16069 07-1

OXYGEN TO METAL RATIO IN SOLID SOLUTIONS OF URANIUM AND PLUTONIUM DIOXIDES
GEAP-4271 N64-16125 08-0

SILICON, NITROGEN, AND OXYGEN IMPURITIES EFFECT ON CORROSION AND HYDROGEN ABSORPTION OF ZIRCALOY-2
WAPD-283 N64-16259 08-1

VAPOR PRESSURE CONTROL TECHNIQUE FOR REMOVAL OF BYPRODUCT WATER FROM HYDROGEN-OXYGEN FUEL CELLS
NASA-CR-55778 N64-16274 08-0

EFFECTS OF RADIATION ON OXYGEN BALANCE IN BRAIN TISSUES N64-16907 09-1

VARIATIONS OF HYDROXYL AND OXYGEN EMISSIONS IN INFRARED AIRGLOW N64-17006 09-23

OXYGEN ELECTRODE REACTION ON ELECTRODES OF CATALYZED AND NONCATALYZED CARBON AND METALS IN ACID ELECTROLYTE N64-17394 09-06

HYDROGEN GENERATOR FOR HYDROGEN-OXYGEN FUEL CELL N64-17397 09-06

HYDROGEN-OXYGEN FUEL CELLS FOR SPACE MISSIONS N64-17401 09-06

QUANTITATIVE ANALYSIS OF OXYGEN IN POTASSIUM
NASA-RP-142 N64-17562 09-07

MANOMETRIC METHOD FOR DETERMINATION OF OXYGEN IN ORGANIC COMPOUNDS N64-17667 09-07

REGENERATIVE HYDROGEN-OXYGEN FUEL CELL
NASA-CR-55847 N64-17682 09-06

GAS EXCHANGE OF CARBON DIOXIDE AND OXYGEN IN ALVEOLAR REGION DURING DIVING & ADVERSE BREATHING MODES N64-17935 10-16

MEASUREMENT OF OXYGEN, CARBON DIOXIDE, & NITROGEN GAS PRESSURES IN ALVEOLUS AND ARTERY REGIONS N64-17940 10-16

ELECTRON POTENTIAL RETARDATION PHOTOEMITTED BY NITROGEN, OXYGEN, AND CARBON MONOXIDE
D1-82-0315 N64-18004 10-23

OXYGEN EFFECTS ON SURVIVAL AND RESTORATION RATES IN YEAST CELLS DUE TO IONIZING RADIATION - RADIOBIOLOGY
JPRS-23945 N64-18206 10-16

DETERMINATION OF CROSS SECTION FOR OXYGEN 16-OXYGEN 15 GAMMA-NEUTRON REACTION - PHOTONEUTRON RESONANCES
IS-676 N64-18395 10-23

REACTION OF GASEOUS OXYGEN WITH TUNGSTEN AND TANTALUM IN INITIAL STAGES OF OXIDATION
AROD-2734-2 N64-18910 11-07

KINETICS OF HIGH TEMPERATURE OXIDATION OF MOLYBDENUM BY DISSOCIATED OXYGEN
TP-84 N64-19085 11-18

INTEGRATED CARBON DIOXIDE HYDROGENATION SYSTEM FOR OXYGEN RECOVERY
ASD-TDR-62-581, PT. 2 N64-19791 12-07

THERMODYNAMIC PROPERTIES OF DISSOCIATED AND IONIZED ARGON, NITROGEN, & OXYGEN GASES FOR TEMPERATURES TO 35,000 DEG K N64-19828 12-23

ROCKET-BORNE MASS SPECTROMETER MEASUREMENTS OF OXYGEN DISSOCIATION IN UPPER ATMOSPHERE
NASA-CR-53629 N64-19992 12-12

KINETICS AND AERODYNAMICS OF OXIDATION OF METALS BY PARTIALLY DISSOCIATED OXYGEN
AEROCHEM-TN-61 N64-20352 13-18

EFFECTS OF CONCENTRATION AND VIBRATIONAL RELAXATION ON INDUCTION PERIOD OF OXYGEN AND HYDROGEN CHEMICAL REACTIONS
NASA-TM-X-52022 N64-20548 13-23

REACTION OF ELECTRONICALLY EXCITED OXYGEN WITH CARBON MONOXIDE TO PRODUCE OZONE AND CARBON DIOXIDE
NASA-CR-56036 N64-20602 13-07

MODIFICATION TO FACEPIECE OF P AND Q TYPE OXYGEN MASKS FOR AIRCREWS
FPRC/MEMO-194 N64-20666 13-16

OXYGEN IMPURITY EFFECTS ON LIQUID METAL CORROSION OF SOLID METALS N64-20789 14-07

OXYGEN DIFFUSION INTO REFRACTORY METALS-NIOBIUM N64-20806 14-25

PHOTOIONIZATION OR BOUND FREE CONTINUUM OF NEGATIVE OXYGEN IONS
R64SD28 N64-21249 14-23

ISOTOPIC EXCHANGE REACTIONS IN CHEMISORPTION OF OXYGEN ON SILVER AND OTHER ELECTRODES
AD-438942 N64-21291 14-06

ANALYSIS OF OXYGEN IN GAS MIXTURES, USING VISCOSITY VARIATIONS OF OXYGEN IN MAGNETIC FIELD
MH-TRANS-504 N64-21618 15-11

EFFECT OF ADSORPTION OF OXYGEN ON CONDUCTIVITY OF POWDERED NICKEL OXIDE - TRANSIENT IONIC SPECIES EFFECT
GA-4979 N64-21745 15-25

CATALYTIC IGNITION OF HYDROGEN-OXYGEN PROPELLANT COMBINATION
RR-63-9 N64-21901 15-26

DESIGN MODIFICATION OF GASEOUS OXYGEN FLOWMETER
NASA-CR-56446 N64-22450 15-15

FIRE HAZARD IN LOW PRESSURE OXYGEN ATMOSPHERE
REPT.-4 N64-22705 15-16

MECHANISM AND LIMITS OF SPONTANEOUS CHAIN IGNITION OF HYDROGEN-OXYGEN MIXTURES IN SHOCK WAVES
JPRS-25103 N64-22737 16-23

DETECTION OF RADIATION FROM OXYGEN RECOMBINATION INDUCED BY SATELLITE PASSAGE FOR AEROSPACE VEHICLE DETECTION N64-23012 16-28

LAMBDA 7774 AND 8446 OXYGEN MULTIPLETS IN SOLAR CHROMOSPHERE
NASA-TT-F-9000 N64-23052 16-29

ATTENUATION AND EMISSION IN EARTH ATMOSPHERE OF COMPLEX OF 60 GC/S OXYGEN LINES
REPT.-5-53 N64-23145 16-12

COMBUSTIBILITY OF LIP, HAIR, & FACE PREPARATIONS UNDER CONDITIONS OF INCREASED TEMPERATURE, HIGH OXYGEN CONTENT, AND IN PRESENCE OF STATIC SPARK
CARI-63-27 N64-23618 16-16

EFFECT OF PROLONGED OXYGEN RESPIRATION ON TASTE SENSITIVITY N64-23695 16-16

ATOMIC OXYGEN-NITRIC OXIDE REACTIONS IN REGION OF AIRGLOW
NASA-CR-67 N64-23911 16-07

CONCENTRATION OF EXCITED OXYGEN FORMED IN FLASH PHOTOLYSIS OF NITROGEN DIOXIDE N64-24145 16-19

HARTREE-FOCK APPROXIMATION FOR FINAL TRANSITION STATE INVOLVING EJECTION OF OUTER OR INNER SHELL ELECTRON DURING PHOTOIONIZATION OF OXYGEN
NASA-CR-66 N64-24398 17-23

EXTRACTION OF OXYGEN FROM SEA WATER BY DIFFUSION THROUGH THIN PLASTIC MEMBRANES
AD-437359 N64-24807 17-16

SCATTERING OF PROTONS BY RADIOACTIVE OXYGEN
UCRL-7648 N64-25357 17-23

POTENTIAL ENERGY CURVES FOR ELECTRONIC STATES OF CHARGED AND NEUTRAL NITROGEN, OXYGEN, AND NITROGEN OXIDE MOLECULES
RM-4034-PR N64-25381 17-23

BEHAVIOR OF NOBLE METALS AND THEIR ALLOYS WITH OXYGEN
RAE-TRANS-1061 N64-25536 17-18

THEORETICAL ANALYSIS OF UTILIZING OXYGEN HORIZON FOR VERTICAL SENSING
AFCRL-64-141 N64-25598 17-30

EQUILIBRIUM OCCUPATION NUMBERS & SPECIES CONCENTRATION FOR AIR, NITROGEN, & OXYGEN TO 24000 DEG K
REPT.-6-74-64-33 N64-25610 17-19

ELECTROCHEMICAL DEVICE FOR OXYGEN REMOVAL
UNC-MTL-3722 N64-25762 17-06

OXYGEN PERMEATION THROUGH VITREOUS SILICA AT HIGH TEMPERATURES
REPT.-63-RL-3515X N64-25837 18-19

SHOCK TUBE MEASUREMENT OF OXYGEN RECOMBINATION RATE N64-26149 18-26

MOLECULAR STRUCTURE & CLEAVAGE OF OXYGEN-OXYGEN BONDS
AROD-2454-7 N64-26645 18-07

NEUTRON ACTIVATION ANALYSIS PROCEDURES FOR DETERMINATION OF OXYGEN IN POTASSIUM
NASA-CR-54099 N64-27382 19-07

REACTIVITY OF TITANIUM WITH OXYGEN
NASA-TR-R-180 N64-27509 19-18

THERMODYNAMICS OF ALUMINUM-BORON-OXYGEN AND BERYLLIUM-BORON-OXYGEN SYSTEMS
QR-5 N64-27607 19-13

OXYGEN ADSORPTION MECHANISMS AT SILVER, GOLD-SILVER, PALLADIUM, PALLADIUM OXIDE, AND PLATINUM ELECTRODE SURFACES - CHEMISORPTION
REPT.-4 N64-27612 19-07

EQUILIBRIUM COMPOSITION AND THERMODYNAMIC PROPERTIES OF CYANOGEN-OXYGEN COMBUSTION PRODUCTS
NASA-TN-D-2422 N64-27924 20-26

ACUTE AND CHRONIC TOXICITY IN RATS FROM OXYGEN AT HIGH PRESSURE
NADC-MA-6331 N64-27954 20-16

HYDROGEN OXYGEN FUELED 3-KILOWATT INTERNAL COMBUSTION ENGINE
AIAA PAPER-64-756 N64-28410 20-06

CRYOPUMPING CAPTURE COEFFICIENTS OF TWO NITROGEN-OXYGEN GAS MIXTURES
AEDC-TDR-64-150 N64-28578 20-23

LIQUID-VAPOR EQUILIBRIUM PROPERTIES OF BINARY AND TERNARY SYSTEMS OF ARGON, NITROGEN, AND OXYGEN
APL-TDR-64-64 N64-28600 20-07

MOLECULAR OXYGEN DENSITY AND LYMAN ALPHA ABSORPTION IN UPPER ATMOSPHERE N64-28637 20-12

COMPILATION OF NEUTRON CROSS SECTIONS FOR OXYGEN AND NITROGEN PERTINENT TO RADIATION SHIELDING AND NEUTRON TRANSPORT STUDIES
NARF-62-17T N64-28906 20-23

SELF CONSISTENT FIELD CALCULATIONS OF GROUND, IONIZED, AND EXCITED STATES OF NITROGEN AND OXYGEN
NASA-CR-58343 N64-28990 20-23

POLAROGRAPHIC DETERMINATION OF OXYGEN CONTENT AND CAPACITY IN SINGLE BLOOD SAMPLE
SAM-TDR-64-39 N64-29287 21-16

CONSTRUCTION & TEST OF HYDROGEN-OXYGEN ELECTROLYTIC REGENERATIVE FUEL CELLS
NASA-CR-58583 N64-29521 21-06

SHELL ENERGY LEVELS FOR NITROGEN 15 AND OXYGEN 15
NOLTR-64-46 N64-29584 21-23

EFFECT OF OXYGEN-ENRICHED CAPSULAR ENVIRONMENT ON BURNING RATE OF CLOTHING
NADC-ML-6408 N64-29855 21-26

FORTRAN II LANGUAGE PROGRAM FOR CALCULATION OF NONEQUILIBRIUM EXPANSION FLOWS OF DISSOCIATED OXYGEN AND IONIZED ARGON AROUND CORNERS
UTIAS-TN-69 N64-29902 21-11

EFFECT OF OXYGEN ON CREEP-RUPTURE OF NIOBIUM
NRL-6095 N64-29956 21-18

OXIDATION REACTIONS OF CARBON MONOXIDE IN PRESENCE OF CARBON AND OXYGEN
GDA-DBE-64-001 N64-30766 22-07

SOUND ATTENUATION IN ATMOSPHERES OF AIR, NITROGEN, OXYGEN, HELIUM AND 50-50 HELIUM-OXYGEN MIXTURES AT LOW PRESSURES
SAM-TDR-64-43 N64-31051 22-16

OXYGEN ISOTOPE SEPARATION WITH OZONE ELECTROSYNTHESIS
FTD-TT-64-326/1&2 N64-31107 22-07

CHEMICAL KINETICS OF REACTION OF COPPER WITH OXYGEN DISSOLVED IN COPPER AND TIN N64-31410 23-07

ADAPTATION OF ORGANISMS TO CHRONIC OXYGEN STARVATION - ACCLIMATIZATION OF HUMANS TO ALTITUDE AND HYPOXIA CHAMBER CONDITIONS N64-31539 23-16

MASS TRANSPORT MECHANISMS OF OXYGEN IN THREE-PHASE ZONE OF CATHODE COVERED WITH THIN FILM OF ELECTROLYTE
AFCRL-64-539 N64-31824 23-07

ADSORPTION AND EXCHANGE OF OXYGEN ISOTOPES ON OXIDIZED PALLADIUM AND SILVER
REPT.-2 N64-31920 23-07

ELECTROMAGNETIC WAVE PROPAGATION IN DYNAMIC SITUATIONS
AD-403887 N64-32142 23-08

BACKGROUND MEASUREMENTS DURING PHOTOELECTRIC OBSERVATIONS OF ATOMIC OXYGEN LINE EMISSION FOR STELLAR AND ATMOSPHERIC CONTINUUM COMPONENTS N64-32703 24-12

ANOMALOUS INTENSITY INCREASE OF ATMOSPHERIC OXYGEN AIRGLOW N64-32704 24-12

COMBUSTION TEST TO DEVELOP SPARK IGNITION SYSTEM OF STOICHIOMETRIC OXYGEN-HYDROGEN AND HELIUM MIXTURE FOR HYPERSONIC SHOCK TUNNEL
REPT.-64-12 N64-33071 24-26

BROMINE TRIFLUORIDE METHOD FOR DETERMINATION OF OXYGEN CONTENT IN LIQUID ALKALI METALS
NASA-CR-58942 N64-33098 24-10

STATIC MOISTURE REMOVAL SYSTEM FOR CAPILLARY MEMBRANE HYDROGEN-OXYGEN FUEL CELL
NASA-CR-58852 N64-33209 24-06

RED LINE OF ATOMIC OXYGEN IN DAY AIRGLOW
NASA-TM-X-54705 N64-33210 24-12

PHOTOSYNTHETIC RESEARCH - PHOTOREACTIVATION, OXYGEN EXCHANGE, PHOSPHORYLATION AND DIFFERENCE SPECTROSCOPY
NASA-CR-59204 N64-33211 24-16

MOLECULAR BEAM SPECTROMETRY OF CARBON MONOXIDE-OXYGEN FLAMES
QTSR-11 N64-33423 24-13

FUEL-CELL OXYGEN ANALYZER FOR DETERMINING ATMOSPHERIC OXYGEN LEVEL ON MARS
NASA-CR-59363 N64-33811 24-06

ANALYTICAL METHODS FOR OXYGEN, NITROGEN, AND CARBON IMPURITIES IN CESIUM METAL - NEUTRON ACTIVATION, GAS CHROMATOGRAPHY, PHOTOMETRY, AND INFRARED ANALYZER TECHNIQUES
ML-TDR-64-199 N64-33912 24-07

SEMICONDUCTOR LASER, CATALYST ADSORPTION OF OXYGEN, AND SPECTROPHOTOMETRY OF TITANIUM
JPRS-27079 N64-33995 24-07

ADSORPTION OF OXYGEN ON NICKEL OXIDE-LITHIUM OXIDE CATALYSTS N64-33997 24-07

OXYGEN APPARATUS
REACTANT PARTICLES FOR USE IN HIGH TEMPERATURE OXYGEN-NITROGEN SEPARATION DEVICE - OXIDATION MECHANISM OF COBALT OXIDE
REPT.-471 N64-20316 13-07

OXYGEN ATOM
EMISSION & ABSORPTION OF ATOMIC OXYGEN IN UPPER ATMOSPHERE N64-10916 02-23

SHAPE OF UPPER F-REGION - EQUILIBRIUM SOLUTIONS FOR CONTINUITY EQUATION FOR ATOMIC OXYGEN IONS IN TERMS OF EXPONENTIAL SERIES N64-13009 04-12

REACTION RATES OF HYDROGEN, AMMONIA, & METHANE IN MIXTURES OF ATOMIC & MOLECULAR OXYGEN
NASA-RP-120 N64-14860 06-07

CHEMILUMINESENCE FROM ATOMIC OXYGEN-NITRIC OXIDE REACTION UNDER UPPER ATMOSPHERIC CONDITIONS
NASA-CR-55805 N64-16028 07-12

PHOTOGRAPHIC INTERFEROMETRIC MEASUREMENT OF DAY AIRGLOW EMISSION OF ATOMIC OXYGEN
AFCRL-64-220 N64-16073 07-12

ULTRAHIGH PRESSURE EFFECT ON STEEL, ATOMIC OXYGEN IN UPPER ATMOSPHERE, AND SOUNDING ROCKET STUDIES
FTD-TT-63-674/1 N64-16960 09-23

CROSS SECTIONS FOR PHOTOIONIZATION OF ATOMIC OXYGEN BY RADIATION USING HARTREE-FOCK CALCULATION
NASA-CR-55949 N64-17689 09-23

DAYGLOW EMISSION STUDY OF RADIATIVE TRANSFER PROCESS IN ATOMIC OXYGEN
NASA-CR-56361 N64-22458 15-28

CHEMICAL REACTION OF ATOMIC OXYGEN WITH CARBON MONOXIDE
NASA-CR-56460 N64-25492 17-07

INTERACTION ENERGIES, CHARGE EXCHANGE CROSS SECTIONS, & DIFFUSION CROSS SECTIONS FOR COLLISIONS OF ATOMS OF NITROGEN & OXYGEN WITH CORRESPONDING POSITIVE IONS N64-29715 21-11

ACCURATE ANALYTICAL SELF-CONSISTENT FIELD /SCF/ FUNCTIONS FOR NEUTRAL AND IONIZED STATES OF OXYGEN AND NITROGEN ATOMS N64-30308 22-23

QUANTUM DEFECT METHOD FOR CALCULATING CROSS SECTIONS OF PHOTOIONIZATION OF NITROGEN AND OXYGEN ATOMS AND FIRST IONS OF OXYGEN AND NITROGEN
TR-64-02B N64-31132 22-23

MASS SPECTROMETRY OF NEGATIVE IONS IN LOW-PRESSURE ATOMIC OXYGEN - ACETYLENE REACTION
AC-1-P N64-32503 23-26

CHEMICAL REACTIVITY OF HYDROGEN, NITROGEN, AND OXYGEN ATOMS AT CRYOGENIC TEMPERATURES
NASA-CR-58968 N64-32892 24-07

RED LINE OF ATOMIC OXYGEN IN DAY AIRGLOW
NASA-TM-X-54705 N64-33210 24-12

OXYGEN BREATHING
EFFECTS ON DECOMPRESSION SICKNESS OF BREATHING OXYGEN OR OXYGEN-NITROGEN MIXTURES PRIOR TO RAPID DECOMPRESSION AND PROLONGED LOW PRESSURE N64-15856 07-16

FUNCTIONAL CHANGES IN ORGANISM AS RESULT OF BREATHING HIGH OXYGEN-LOW CARBON DIOXIDE GAS MIXTURE AT REST AND DURING EXERCISE N64-22170 15-16

RELATIONSHIP BETWEEN INSPIRED OXYGEN CONCENTRATION AND AIRCRAFT CABIN ATMOSPHERIC PRESSURE IN HIGH ALTITUDE FLIGHT
FPRC-1214 N64-25848 18-16

PATHOPHYSIOLOGY OF PULMONIC TOXICITY IN RATS BREATHING PURE OXYGEN AT REDUCED ATMOSPHERIC PRESSURE
NADC-ML-6403 N64-27953 20-16

OXYGEN COMPOUND
SA OXIDE
SA OZONIDE
PRESSURE COMPOSITION MEASUREMENTS AND PHASE DIAGRAM FOR BERYLLIUM-BORON-OXYGEN & ALUMINUM-BORON-OXYGEN SYSTEMS
QR-5 N64-14171 06-19

SYNTHESIS OF NEW SOLID COMPOUNDS CONTAINING NITROGEN, OXYGEN, & FLUORINE
AD-434866 N64-18782 11-07

PARAMETERS AND STRUCTURES OF CARBON-OXYGEN BONDS
AFCRL-64-508 N64-28609 20-07

INORGANIC MACROMOLECULES WITH SILICON-OXYGEN-METAL LINK
AD-601415 N64-28684 20-07

PRODUCTION, ISOLATION, AND IDENTIFICATION BY ELECTRON PARAMAGNETIC RESONANCE SPECTRUM OF OXYGEN-FLUORINE RADICALS AND COMPOUNDS
QPR-3 N64-30583 22-07

VAPOR-PHASE REACTIONS OF ORGANIC COMPOUNDS WITH OXYGEN
AD-603096 N64-30800 22-07

THEORETICAL AND QUANTUM CHEMISTRY OF ENERGETIC NITROGEN, OXYGEN, FLUORINE COMPOUNDS - FUNDAMENTAL BONDING AND BEHAVIOR
QTR-2 N64-32095 23-07

QUANTUM CHEMISTRY OF ENERGETIC NITROGEN-OXYGEN-FLUORINE COMPOUNDS
AD-450087 N64-33973 24-07

OXYGEN CONSUMPTION
CEREBRAL HYPOXIA IN RESPONSE TO GRAVITY EFFECT WHILE BREATHING OXYGEN
JPRS-21984 N64-10388 01-16

OXYGEN CONSUMPTION AND CATECHOLAMINE RELEASE FROM ADRENAL SLICES AND RATE OF RESPIRATION
SAM-TDR-63-50 N64-12835 04-16

WATERS CUVETTE MONITORING OF HUMAN ARTERIAL OXYGEN CONSUMPTION DURING TRANSVERSE ACCELERATION
NADC-MA-6323 N64-13831 05-16

BRAIN CIRCULATION, OXYGEN SUPPLY, AND ANOXIC SURVIVAL N64-14584 06-16

REGIONAL METABOLISM AND CIRCULATION OF CEREBRAL CORTEX AND EFFECT ON SELECTIVE VULNERABILITY TO ANOXEMIA N64-14587 06-16

BLOOD PRESSURE MEASUREMENTS OF OXYGEN UPTAKE AND RESPIRATORY RATE OF RAT LIVER - HYPOXIA N64-14602 06-16

GLUCOSE UTILIZATION OF BRAIN CORRELATED WITH INSUFFICIENT OXYGEN CONSUMPTION IN LIVER - HYPOXIA N64-14604 06-16

HYPERVENTILATION-ALKALOSIS AND BICARBONATE CONCENTRATION EFFECT ON ACID-BASE EQUILIBRIUM FOR OXYGEN TRANSFER AND CONSUMPTION N64-15037 07-16

GAS CONSUMPTION AND METABOLISM OF COLD-BLOODED ANIMALS AND MIGRATION & RADIOACTIVITY OF MARINE ANIMALS
JPRS-23285 N64-15334 07-16

FACTORS AFFECTING CELLULAR OXYGEN CONSUMPTION AT LOW OXYGEN TENSIONS
SAM-TDR-63-68 N64-15741 07-16

OXYGEN STORAGE IN HUMAN BODY N64-17951 10-16

CARBON DIOXIDE REMOVAL, CONVERSION, AND OXYGEN REGENERATION N64-24627 17-16

OXYGEN INHALATION EFFECTS ON COLD RESPONSE THRESHOLDS AND ON GAS TRANSPORT AND ACID-BASE BALANCE OF BLOOD
AD-600077 N64-26550 18-16

PROTEIN-BOUND IODINE IN SERUM OF RATS BREATHING 99 PERCENT OXYGEN - MICROSCOPIC CHANGES IN THYROID N64-32223 23-16

DELIVERY APPARATUS OF PURE OXYGEN TO CLOSED SYSTEM AND CONSUMPTION MEASUREMENT IN CHRONIC EXPERIMENTS WITH SMALL ANIMALS
FTD-TT-63-1118/16264 N64-32663 23-16

OXYGEN DEFICIENCY
SA HYPOXIA
TRAINING FOR OXYGEN DEFICIENCY IN WHITE RATS

IMMEDIATELY AFTER SEVERE BURN INJURY
JPRS-21999 N64-10391 01-16

OXYGEN DEFICIENCY INFLUENCE ON HUMAN PERFORMANCE AND METABOLIC FUNCTIONS - AVIATION MEDICINE
DVL-205 N64-15034 07-16

OXYGEN DEFICIENCY INDEX FOR PILOT SENSITIVITY DETERMINATIONS N64-15035 07-16

ADAPTATION OF PILOT STRESS-SENSITIVITY TO OXYGEN DEFICIENCY IN LOW PRESSURE CHAMBER N64-15036 07-16

ACTIVITY CHANGE OF GLUTAMIC-OXALACETIC ACID TRANSAMINASE BY ALBUMIN METABOLISM DUE TO OXYGEN DEFICIENCY - BIOCHEMISTRY N64-15039 07-16

ENZYME ACTIVATION DETERMINATION OF OXYGEN DEFICIENCY EFFECT ON BIOSYNTHESIS OF HEME FORMATION N64-15043 07-16

ERYTHROCYTE COUNT FOR QUANTITATIVE EVALUATION OF HUMAN BLOOD CHANGES DURING PHYSICAL WORK AND OXYGEN DEFICIENCY N64-15044 07-16

EFFECTS OF RADIATION ON OXYGEN BALANCE IN BRAIN TISSUES N64-16907 09-16

KINETIC REGULARITIES OF PRIMARY REACTIONS AND CHEMICAL PROTECTION IN RADIATION DAMAGE N64-16908 09-16

ADAPTATION AND ACCLIMATIZATION OF HUMAN ORGANISM TO HYPOXIA
JPRS-25796 N64-28076 20-16

PH VALUES, BICARBONATE CONTENTS AND CARBONIC ACID PRESSURE OF HUMAN BLOOD IN SHORT TERM OXYGEN DEFICIENCY
DVL-225 N64-32326 23-16

OXYGEN FLUORIDE
PRODUCTION OF OXYGEN-FLUORINE COMPOUNDS BY COBALT AND HYDROGEN BOMBARDMENT
AD-428142 N64-15688 07-07

THERMOSTABILITY AND CHEMICAL REACTIONS OF OXYGEN FLUORIDES
IITRI-C227-6 N64-16509 08-07

OXYGEN FLUORIDE PREPARATION - CHEMICAL REACTION OF OXYGEN FLUORIDES WITH KRYPTON AND XENON
AD-435838 N64-18626 11-07

THERMODYNAMIC EVALUATION OF FORMATION HEAT OF BORON OXYFLUORIDE-PRODUCING REACTION N64-18822 11-13

BOMBARDMENT AND IRRADIATION PRODUCTION METHODS FOR OXYGEN-FLUORIDE RADICALS
AD-437465 N64-20186 13-07

ACCIDENT INVESTIGATION - EXPLOSION INVOLVING USE OF OXYGEN DIFLUORIDE
REPT.-63-136 N64-21362 14-07

INORGANIC OXIDIZERS - STABLE IONS OF OXYGEN-FLUORINE AND NITROGEN-FLUORINE COMPOUNDS
RPL-TDR-64-98 N64-32553 23-26

CHEMISTRY OF OXYGEN FLUORIDE AND OZONE FLUORIDE
IITRI-C227-7 N64-32967 24-07

OXYGEN PRODUCTION
CF CLOSED ECOLOGICAL SYSTEM
CF GAS EXCHANGE
FEASIBILITY OF OXYGEN PRODUCTION BY ALGAE FOR NUCLEAR SUBMARINES
NRL-5954 N64-10551 01-16

OXYGEN PRODUCTION BY ALGAE IN SMALL CULTURE UNIT
NRL-5979 N64-10557 01-16

ELECTROLYTIC PRODUCTION OF OXYGEN & REDUCTION OF CARBON DIOXIDE FROM AQUEOUS SOLUTIONS OF FORMIC ACID
NASA-CR-52878 N64-11325 02-06

ELECTROLYSIS OF WATER IN HYDRATED PHOSPHORUS PENTOXIDE ELECTROLYTES - OXYGEN PRODUCTION SYSTEM
AMRL-TDR-63-95 N64-12979 04-17

THERMOCHEMICALLY SELF-PROPAGATING OXYGEN-GENERATING COMPOSITION USING LITHIUM PERCHLORATE, MANGANESE POWDER, & LITHIUM PEROXIDE
AMRL-TDR-64-1 N64-18600 11-16

REDUCTION OF LUNAR NATURAL SILICATES FOR OXYGEN PRODUCTION
NASA-CR-53749 N64-19174 11-07

SULFATE CYCLE FOR CARBON DIOXIDE REMOVAL AND OXYGEN GENERATION
NRL-6033 N64-21059 14-06

OBTAINING OXYGEN BY ELECTROLYTIC DECOMPOSITION OF WATER UNDER CONDITIONS OF WEIGHTLESSNESS N64-23773 16-16

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON DIOXIDE
AMRL-TDR-64-35 N64-27432 19-16

OXYGEN SUPPLY AND CARBON DIOXIDE CONTROL IN CLOSED FALLOUT SHELTER
MRD-1242-2530 N64-28141 20-16

INORGANIC SYSTEM FOR OXYGEN RECOVERY FOR LIFE SUPPORT IN SPACECRAFT
AMRL-TDR-64-30 N64-32626 23-16

WATER PHOTOLYSIS AND OXYGEN PRODUCTION FROM ILLUMINATION OF CHLOROPLAST IN PRESENCE OF SUITABLE ANODE ACCEPTOR
NASA-CR-59220 N64-33124 24-16

OXYGEN SPECTRUM
OXYGEN EMISSION & ABSORPTION SPECTRUM N64-10912 02-23

INVERSION PROCESS BASED ON THERMAL RADIATION SENSING IN OXYGEN ABSORPTION BAND FOR TEMPERATURE MEASUREMENT N64-10913 02-12

ULTRAVIOLET ABSORPTION SPECTRA OF OXYGEN IN LIQUID AND CRYSTALLINE ARGON AND NITROGEN N64-20596 13-23

OXYGEN SYSTEM
ELECTRONIC TRANSITION MOMENT FOR SCHUMANN-RUNGE BAND SYSTEM OF OXYGEN - NUCLEAR PHYSICS
AD-434357 N64-18494 10-23

GRAIN DESIGNS FOR HYBRID ROCKET ENGINES - OXYGEN-POLYMETHYL METHACRYLATE SYSTEMS
P-119 N64-25187 17-27

SEAT-MOUNTED OXYGEN SUPPLY SYSTEM FOR LIGHTNING AIRCRAFT
FPRC/MEMO-202 N64-25845 18-16

THERMODYNAMIC AND TRANSPORT PROPERTIES FOR HYDROGEN-OXYGEN SYSTEM
NASA-SP-3011 N64-26785 18-26

EQUILIBRIUM PHASE DIAGRAM FOR YTTRIUM-OXYGEN SYSTEM
IS-812 N64-27341 19-18

KINETICS OF REACTIONS IN HYDROGEN /CARBON MONOXIDE/ OXYGEN SYSTEM
R64SD37 N64-27567 19-07

OXIDATION BEHAVIOR OF MOLYBDENUM, TUNGSTEN, NIOBIUM, AND TANTALUM IN GASEOUS ATMOSPHERES OF OXYGEN-NITROGEN, CARBON MONOXIDE-CARBON DIOXIDE, AND HYDROGEN-WATER MIXTURES N64-27588 19-18

THERMODYNAMICS OF ALUMINUM-BORON-OXYGEN AND BERYLLIUM-BORON-OXYGEN SYSTEMS
QR-8 N64-27606 19-13

CATALYTIC IGNITION OF OXYGEN/HYDROGEN SYSTEMS
NASA-CR-54086 N64-30086 21-26

HAZARDS IN OXYGEN ENVIRONMENT N64-30727 22-16

OXYGEN TENSION
OXYGEN TENSION DETERMINATION - OXYGEN DIFFUSION IN GREY MATTER OF BRAIN AT CAPILLARY LEVEL N64-14583 06-16

CHANGE IN METABOLIC PATTERN OF BRAIN DUE TO OXYGEN TENSION REDUCTION IN BLOOD - HYPOXIA N64-14603 06-16

PHYSIOLOGICAL EFFECTS OF EXPOSURE TO INCREASED OXYGEN TENSION
SAM-TDR-63-64 N64-16640 08-14

BREATH HOLDING METHODS OF STUDYING CARBON DIOXIDE, OXYGEN TENSION, AND EFFECTS OF ALTITUDE ACCLIMATIZATION ON RESPIRATION N64-17936 10-16

OXYGEN DISSOCIATION CURVE DETERMINATION - POLAROGRAPHIC MEASUREMENTS OF OXYGEN TENSION N64-17938 10-16

OXYGEN & CARBON DIOXIDE TENSIONS IN DOG PULMONARY VEIN N64-17943 10-16

EFFECT OF TRANSVERSE ACCELERATION ON OXYGEN TENSION IN BRAIN TISSUE
FTD-TT-63-1215/1&2&4 N64-22665 15-16

POLAROGRAPHIC METHOD OF DETERMINATION OF OXYGEN TENSION IN BRAIN TISSUES DURING HIGH ALTITUDE FLIGHT N64-27634 19-16

OXYGEN TENSION IN LIVING BRAIN TISSUE OF DOG DURING LONG ACCELERATION
FTD-TT-63-848/1&2 N64-29278 21-16

SPACE CABIN ATMOSPHERES - HIGH OXYGEN TENSION IN ANIMALS AND HUMANS, OXYGEN TOXICITY, AND DRUG THERAPY
NASA-SP-47 N64-31219 22-16

OXYGEN 18
ACTIVATION ANALYSIS USING OXYGEN-18 AND THERMAL NEUTRONS AS TRACERS N64-11202 02-23

OZONE
CF OXYGEN
PHOTOCHEMICAL DISTRIBUTION OF OZONE IN OXYGEN ATMOSPHERES
SAD-123 N64-10225 01-12

PHOTOCHEMICAL DISTRIBUTION OF OZONE IN OXYGEN ATMOSPHERES
SAD-123 N64-10225 01-12

OZONE DISTRIBUTION IN ATMOSPHERE WITH LIMITS OF VARIATION DUE TO PHOTOCHEMICAL REACTIONS
SAD-124 N64-10226 01-12

OZONE DISTRIBUTION IN ATMOSPHERE WITH LIMITS OF VARIATION DUE TO PHOTOCHEMICAL REACTIONS
SAD-124 N64-10226 01-12

FLUCTUATION OF ATMOSPHERIC OZONE IN LOWER STRATOSPHERE N64-10819 02-12

FLUCTUATION OF ATMOSPHERIC OZONE IN LOWER STRATOSPHERE N64-10819 02-12

EXPLOSIVE PROPERTIES OF OZONE IN LIQUID OXYGEN UNDER HIGH PRESSURE PULSE
FTD-TT-62-1460/1&2&4 N64-11153 02-07

MAXIMIZATION OF OZONE YIELD IN RADIOLYSIS OF OXYGEN
JLI-2901-0-1 N64-12129 03-07

STEADY DETONATION WAVES IN OZONE - CHEMICAL KINETICS IN SQUID PROJECT N64-13484 05-24

CHEMILUMINESCENT OZONE BALLOON SONDE FOR MEASURING ATMOSPHERIC OZONE CONCENTRATIONS
AFCRL-64-212 N64-15724 07-07

CHEMILUMINESCENT OZONE BALLOON SONDE FOR MEASURING ATMOSPHERIC OZONE CONCENTRATIONS
AFCRL-64-212 N64-15724 07-07

HIGH SPEED CHEMICAL REACTIONS /DETONATIONS/ IN OZONE - SQUID PROJECT N64-18859 11-23

ELECTROSYNTHESIS OF OZONE - STEADY STATE CONCENTRATIONS AND MECHANISM OF OZONE FORMATION
FTD-TT-62-1536/1&2&4 N64-19191 11-07

DIURNAL VARIATIONS OF ATOMIC OXYGEN AND OZONE IN MESOSPHERE
NRE-TN-RAD-82 N64-19473 12-12

HARTLEY BAND EXTINCTION COEFFICIENTS OF OZONE IN GAS PHASE AND IN LIQUID NITROGEN, CARBON MONOXIDE, AND ARGON
NASA-CR-53898 N64-19794 12-23

VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE DEDUCED FROM INFRARED OBSERVATIONS
AFCRL-64-89 N64-20089 13-21

VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE DEDUCED FROM INFRARED OBSERVATIONS
AFCRL-64-89 N64-20089 13-21

ATMOSPHERIC OZONE PROFILES, ASSOCIATED TEMPERATURE AND DEW POINT PROFILES, AND TABULATED OZONE AND RADIOSONDE DATA
AFCRL-64-30/1/ N64-20094 13-12

ATMOSPHERIC OZONE PROFILES, ASSOCIATED TEMPERATURE AND DEW POINT PROFILES, AND TABULATED OZONE AND RADIOSONDE DATA
AFCRL-64-30/1/ N64-20094 13-12

OZONE CONCENTRATIONS IN PRESSURIZED CABINS OF COMMERCIAL JET AIRCRAFT ABOVE 25,000 FEET
FAA-ADS-5 N64-20444 13-21

REACTION OF ELECTRONICALLY EXCITED OXYGEN WITH CARBON MONOXIDE TO PRODUCE OZONE AND CARBON DIOXIDE
NASA-CR-56036 N64-20602 13-07

BREAKING WAVES, AEROSOLS, AND OZONES IN EARTH AND OTHER PLANETARY ATMOSPHERES
NASA-CR-56134 N64-20724 13-29

VERTICAL DISTRIBUTION OF OZONE OVER SWITZERLAND
AFCRL-64-303 N64-21235 14-12

ELECTROSYNTHESIS OF OZONE FROM OXYGEN AT HIGH PRESSURES
FTD-TT-64-195/1&2&4 N64-22668 15-07

SPECTRAL DISTRIBUTION OF OUTGOING LONG-WAVE RADIATION FLUXES DUE TO RADIATING WATER VAPOR, CARBON DIOXIDE OR OZONE
NASA-TT-F-210 N64-22676 15-28

SEASONAL TRANSPORT PROCESSES AND EFFECT ON DISTRIBUTION OF OZONE IN STRATOSPHERE
NASA-TN-D-2106 N64-22748 16-12

VARIATION IN AMOUNT OF ATMOSPHERIC OZONE AND RELATIONSHIP TO TEMPERATURE CHANGES IN STRATOSPHERE
NASA-TT-F-9016 N64-22944 16-12

ABSORPTION OF ATMOSPHERIC THERMAL RADIATION IN OZONE BAND REGION
NASA-TT-F-207 N64-23029 16-12

VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE
NASA-TT-F-9015 N64-23131 16-12

ELECTROSYNTHESIS OF OZONE AND POLAROGRAPHIC STUDY OF BOROHYDRIDES OF ALKALI METALS
FTD-TT-62-1462/1&2&4 N64-23662 16-07

KINETICS OF OZONE SYNTHESIS IN GAS STREAM AT REDUCED PRESSURE N64-23663 16-07

AIRGLOW & REACTION BETWEEN ATOMIC HYDROGEN & OZONE IN ATMOSPHERE N64-24473 17-21

TRANSPORT THEORY AND RADIATION CHART FOR OZONE IN ATMOSPHERE N64-24476 17-21

TRANSPORT PROPERTIES OF ATMOSPHERIC OZONE IN

STRATOSPHERE N64-24477 17-21

GEOGRAPHIC DISTRIBUTION OF ATMOSPHERIC OZONE N64-24479 17-21

VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE N64-24480 17-21

EFFECTS OF FERREL DISTURBANCES & MIDDLE STRATOSPHERIC PHENOMENA ON OZONE CONCENTRATION N64-24481 17-21

ATMOSPHERIC OZONE IN MIDDLE STRATOSPHERE N64-24482 17-21

OBSERVATIONS & MEASUREMENTS OF ATMOSPHERIC OZONE IN ANTARCTIC STRATOSPHERE N64-24483 17-21

SMOOTHED VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE FROM OBSERVATIONS OF INFRARED ABSORPTION AND EMISSION
AFCRL-64-88 N64-25857 18-05

VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE, SOLAR SPECTROMETRY, AND INTERFEROMETRIC INVESTIGATION OF CELESTIAL SPECTRA
AFCRL-64-569 N64-27081 19-12

ATMOSPHERIC OZONE MEASUREMENTS FOR SALISBURY, SOUTH AUSTRALIA
WRE-TN-PAD-86 N64-28866 20-21

VERTICAL DISTRIBUTION AND AVERAGE DISTRIBUTION OF OZONE OVER NORTH AMERICA
AFCRL-64-30/2/ N64-29992 21-12

OXYGEN ISOTOPE SEPARATION WITH OZONE ELECTROSYNTHESIS
FTD-TT-64-326/1&2 N64-31107 22-07

OZONE DISTRIBUTION, ENERGETICS OF UPPER ATMOSPHERE, AND ATMOSPHERIC CIRCULATIONS DUE TO TEMPERATURE DIFFERENCES
AFCRL-64-612 N64-31993 23-12

NIGHT-TIME PHOTOMETER MEASUREMENTS OF OZONE CONCENTRATION AT HIGH ALTITUDE
NASA-TM-X-55101 N64-33630 24-12

OZONE FLUORIDE

CHEMICAL PROPERTIES & SOLUBILITY OF OZONE FLUORIDE IN LIQUID OXYGEN AND HYPERGOLIC IGNITION BETWEEN HYDROGEN AND LIQUID OXYGEN
NASA-CR-54072 N64-32632 23-26

CHEMISTRY OF OXYGEN FLUORIDE AND OZONE FLUORIDE
IITRI-C227-7 N64-32967 24-07

OZONIDE

CF OXYGEN COMPOUND

PRODUCTION OF RHENIUM FROM POTASSIUM PERRHENATE BY AUTOCLAVE PROCESS N64-10728 02-19

SYNTHESIS OF CESIUM OZONIDE THROUGH CESIUM SUPEROXIDE
FTD-TT-64-194/1&2&4 N64-23446 16-19

OZONOSPHERE

CF ATMOSPHERE

CHANGES OCCURRING IN OZONOSPHERE DURING TOTAL ECLIPSE OF SUN
WRE-TN-PAD-84 N64-23059 16-12

P

P-N JUNCTION

RANDOM SPACE DISTRIBUTION OF IMPURITY ATOMS NEAR P-N JUNCTION, AND EXCESS NOISE IN SEMICONDUCTORS
AD-423372 N64-13130 04-09

STRUCTURAL ANALYSIS OF SILICON P-N JUNCTIONS USING UNIFORM AVALANCHE JUNCTIONS
AFCRL-63-538 N64-14138 05-25

P-N JUNCTION PHOTOVOLTAIC CONVERTER YIELD, EFFICIENCY, AND COST
RTD-TDR-63-4125 N64-14295 06-25

P-N JUNCTION FORMATION TECHNIQUES - PLASMA DEPOSITION & ION IMPLANTATION STUDIES FOR IMPROVED SOLAR CELLS
TPR-1 N64-14646 06-06

THERMOPHOTOVOLTAIC ENERGY CONVERSION SYSTEM USING P-N JUNCTIONS N64-17383 09-06

SPECTRA DISTRIBUTION OF ELECTROLUMINESCENCE OF MANGANESE AND ZINC DIFFUSED P-N JUNCTIONS N64-17874 10-25

ELECTRON BEAM MULTIPLIER TUBE FOR HIGH SPEED POWER AMPLIFIER USING BEAM SWITCHED P-N JUNCTIONS
AD-428020 N64-19970 12-09

CAPACITANCE-VOLTAGE BEHAVIOR OF ZINC-DIFFUSED GALLIUM ARSENIDE P-N JUNCTIONS
SSD-TDR-64-42 N64-22271 15-25

VOLTAMPERE CHARACTERISTICS OF RECTIFIER OF P-P-N STRUCTURE N64-24572 17-09

HIGH SPEED POWER AMPLIFIER USING ELECTRON BEAM SWITCHED P-N JUNCTION
AD-436595 N64-24809 17-09

P-N TUNNEL DIODE JUNCTION STRUCTURE FOR MICROWAVE GENERATION
AL-TDR-64-129 N64-25330 17-09

P-N JUNCTION FORMATION BY ION IMPLANTATION AND PLASMA DEPOSITION TECHNIQUES
REPT.-2 N64-25661 17-24

CAPACITANCE AND ELECTROLUMINESCENCE MEASUREMENTS FOR CADMIUM TELLURIDE P-N JUNCTION DIODES N64-31645 23-25

VISIBLE ELECTROLUMINESCENCE FROM P-N JUNCTIONS IN DIFFUSION BONDED SEMICONDUCTORS N64-31646 23-25

P-N JUNCTION PHOTODETECTORS USING INTERNAL PARAMETRIC AMPLIFIERS
SRRC-RR-64-49 N64-32271 23-09

STABILITY OF Q OF CIRCUIT WITH INDUCTIVE EFFECT BASED ON P-N JUNCTIONS N64-32908 24-09

EXCITED RADIATION FROM SEMICONDUCTOR ARSENIC-GALLIUM P-N JUNCTION N64-33996 24-25

PACKAGING

SA CONTAINER
SA ELECTRONIC PACKAGING

BIBLIOGRAPHY - SHOCK, VIBRATION, & DAMPING IN PACKAGING
TDCK-28650 N64-10462 01-33

CORROSION PROTECTION BY TRANSPARENT PLASTIC FILM BAGGING
RIA-TR-63-2583 N64-13315 04-19

FAILURE OF PERSHING MISSILE SYSTEM TACTICAL SHIPPING AND STORAGE CONTAINER COMPONENTS DURING TRANSPORTATION VIBRATION TESTS
RT-TR-63-8 N64-14773 06-30

SNAP 2 POWER SYSTEM - TWO-PHASE FLIGHT PACKAGE SPEED CONTROL
ER-5908 N64-21855 15-06

VIBRATION TESTING OF RESILIENT PACKAGE CUSHIONING MATERIALS
TR-3160 N64-33725 24-33

PACKING

PACKING PROPERTIES OF FINE POWDERS AND DEPTH OF LUNAR DUST LAYER N64-18497 10-29

PAIN

BODY REACTION TO PAINFUL STIMULI - ACTIVE AND PASSIVE
JPRS-21617 N64-10117 01-16

PAINT

SA FILLER

PAINT AND FILM REMOVAL FROM STEEL AND ALUMINUM SURFACES

CCL-159 N64-20321 13-17

MOISTURE PERMEABILITY OF FOUR PAINT SYSTEMS - AEROSPACE STRUCTURAL TECHNOLOGY
A756 N64-22598 15-17

EVALUATION OF EPOXY POLYAMIDE PAINT FOR DRYING, WET-TAPE ADHESION, AND HOT-AIR BLAST RESISTANCE
A757 N64-24211 16-19

PAINTS AS PROTECTIVE COATING OF MASONRY AGAINST CORROSION BY HYDROCHLORIC ACID ATMOSPHERES
N64-24274 17-19

DEGRADATION OF WHITE PAINTS UNDER ULTRAVIOLET RADIATION
GDA-ERR-AN-64-407 N64-28053 20-17

PHOSPHATE COATINGS ON STEEL AS PAINT UNDERCOATS OR PRIMERS
RIA-TR-63-3893 N64-29244 21-17

EFFECTIVENESS OF SODIUM, CALCIUM, AND LEAD FATTY ACID PAINTS AGAINST CORROSION
ONRL-47-64 N64-32540 23-18

ATTENUATED TOTAL REFLECTION SPECTROSCOPY OF PAINT VEHICLES
R-240 N64-33417 24-23

PALLADIUM
PHYSICAL PROPERTIES OF PALLADIUM CONTAINING ADSORBED HYDROGEN N64-15110 07-19

TIME-TEMPERATURE INTEGRATOR WITH SENSING ELEMENTS OF PALLADIUM AND PLATINUM FOIL LAYERS FOR CHECKING ENGINE DETERIORATION
AD-434147 N64-22000 15-15

ADSORPTION AND EXCHANGE OF OXYGEN ISOTOPES ON OXIDIZED PALLADIUM AND SILVER
REPT.-2 N64-31920 23-07

FABRICATION, RANGES, AND TEMPERATURE COEFFICIENTS OF RESISTORS USING PALLADIUM AND SILVER DISPERSED IN CERAMIC MATRIX
IDR-5 N64-32618 23-17

SILVER-ZINC SECONDARY BATTERIES - HYDROGEN EVOLUTION AND PALLADIUM ADDITIONS TO SILVER PLATE
QTPR-4 N64-32883 24-06

PALLADIUM ALLOY
ELECTRON MICROSCOPE STUDY OF SLIP FLOW TRANSITION IN DEFORMATION OF COPPER-GOLD AND COPPER-PALLADIUM ALLOYS N64-10747 02-18

URANIUM-PALLADIUM THIN FOILS FOR CHEMONUCLEAR REACTOR FUEL ELEMENT
BNL-827/T-322/ N64-14401 06-23

GRAVITY INDEPENDENT WATER-ELECTROLYTIC CELL WITH PALLADIUM-SILVER ALLOY CATHODE
ANRL-TDR-64-44 N64-27458 19-06

PALMGREN MINER RULE
OPTIMIZATION OF PALMGREN-MINER DETERMINATIONS OF CUMULATIVE FATIGUE DAMAGE
NASA-RP-310 N64-30606 22-33

PANEL
SA METAL PLATE
SA PLATE
CF SHEET
CF STRUCTURAL MATERIAL
FLUTTER OF FLAT RECTANGULAR PANELS BASED ON THREE-DIMENSIONAL SUPERSONIC POTENTIAL FLOW
NASA-RP-44 N64-10131 01-02

SUPERSONIC FLUTTER OF RECTANGULAR, ORTHOTROPIC PANELS N64-11026 02-02

CHEMICALLY MILLED WAFFLE GRID BERYLLIUM STRUCTURAL PANEL FOR AEROSPACE APPLICATION
ERR-FW-135 N64-13119 04-18

IMPACT AND FLEXURE PROPERTIES OF PLASTIC FACED PANELS OF SANDWICH CONSTRUCTION
PSNS-MAT-LABS-P-565 N64-14631 06-19

RESPONSE TO ACOUSTIC EXCITATION OF STRUCTURAL PANELS FROM SATURN ENGINE SHROUDS
NASA-CR-53394 N64-18103 10-33

THERMOCONDUCTIVITY OF THERMAL INSULATION PANELS IN F-111 AIRCRAFT
FTDR-3174 N64-20059 13-34

COUPLING OF SOUND AND PANEL VIBRATION BELOW CRITICAL FREQUENCY
NASA-CR-53605 N64-20733 13-23

SQUEEZE CASTING OF THIN WALL PANELS
JPRS-24771 N64-20809 14-17

ACOUSTIC AND RANDOM VIBRATION FATIGUE TEST OF STRUCTURAL SKIN PANELS FOR TITAN III ICBM
SSD-CR-64-95 N64-21110 14-33

VIBRATION & RESPONSE OF CURVED PANELS - DYNAMIC NONLINEAR SHALLOW SHELL EQUATIONS
IDA/HQ-63-1346 N64-22202 15-33

HEAT SHIELD BODY PANEL OF NIOBIUM ALLOY SUBJECTED TO PFAUDLER COATING CYCLE N64-27024 19-18

TRANSIENT HEAT TRANSFER AND STRESS ANALYSIS OF BASE HEAT SHIELD PANEL OF SATURN IC LAUNCH VEHICLE
NASA-CR-58045 N64-27269 19-13

INSTALLATION OF SOLAR CELLS ON PHOTOVOLTAIC CONCENTRATING PANELS
NASA-CR-56777 N64-27886 20-06

SCALE SIZE WAFFLE PANEL WITH INTEGRAL RIBS FORMED BY COLD PRESS-EXTRUSION TECHNIQUE
NASA-TM-X-53058 N64-28746 20-34

DYNAMIC STABILITY OF SHORT CYLINDRICAL SHELLS & CURVILINEAR PANELS IN SUPERSONIC GAS FLOW
FTD-TT-63-1227/1&2 N64-29028 21-03

MATHEMATICAL MODEL OF TURBULENCE-INDUCED PANEL VIBRATION
AFOSR-64-0883 N64-32975 24-33

ANALYTICAL MODEL FOR THERMAL RESPONSE PREDICTION IN HONEYCOMB SANDWICH PANELS
OR-6037 N64-33551 24-13

PANEL FLUTTER
CF AEROELASTICITY
FLUTTER OF FLAT RECTANGULAR PANELS BASED ON THREE-DIMENSIONAL SUPERSONIC POTENTIAL FLOW
NASA-RP-44 N64-10131 01-02

FLUTTER CHARACTERISTICS OF FLAT PANEL ARRAYS
NASA-TN-D-2227 N64-10400 01-33

EFFECT OF DIFFERENTIAL PRESSURE, THERMAL STRESS, & BUCKLING ON FLUTTER OF PANELS WITH LENGTH-WIDTH RATIO OF TWO
NASA-TN-D-2047 N64-11901 03-33

FLUTTER OF TWO-DIMENSIONAL PANELS AT SUPERSONIC SPEEDS
AFOSR-5327 N64-12711 04-33

PANEL RESPONSE TO ACOUSTIC AND PRESSURE VIBRATION IN TURBULENT BOUNDARY LAYER N64-13071 04-33

PANEL FLUTTER OF RING AND LONGERON STIFFENED CIRCULAR CYLINDRICAL SHELL AT HIGH SUPERSONIC SPEEDS
AFOSR-64-0074 N64-17452 09-33

AERODYNAMIC DRAG OF BLUNT CONES IN HYPERSONIC RAREFIED FLOW OF NITROGEN AND ARGON
AEDC-TDR-64-60 N64-19067 11-02

FLUTTER BOUNDARIES OF PARALLEL PLATES CONNECTED BY ELASTIC MEDIUM
NASA-RP-156 N64-19147 11-33

FLUTTER ANALYSIS OF FLAT ISOTROPIC PANELS
N64-19368 12-33

FLUTTER CHARACTERISTICS OF CURVED AND FLAT

SANDWICH PANELS SUBJECTED TO SUPERSONIC FLOW
NASA-TN-D-2192 N64-19722 12-33

FLUTTER ANALYSIS OF CORRUGATION-STIFFENED PANELS AT SUPERSONIC SPEED - MACH NUMBER 3
NASA-TN-D-2293 N64-19725 12-33

LITERATURE REVIEW OF PANEL AND SHELL FLUTTER CHARACTERISTICS
AGARD-475 N64-19913 12-33

THERMOACOUSTICAL INSTABILITY OF HETEROGENEOUS GAS FLOW AND NONSTEADY FLUTTER OF PLATES AND SLANTED SHELLS IN GAS FLOWS
FTD-TT-63-204/1&2&4 N64-20367 13-01

NONSTEADY FLUTTER OF PLATES AND SLANTED SHELLS IN SUPERSONIC GAS FLOW N64-20369 13-33

STATIC AND DYNAMIC AEROELASTIC INSTABILITIES OF THIN PANELS AND MEMBRANES - MEMBRANE FLUTTER AND PANEL DIVERGENCE
AGARD-474 N64-21845 15-33

COMPUTER PROGRAM FOR STUDY OF PANEL FLUTTER
NASA-CR-80 N64-24999 17-33

FREQUENCY AND PRESSURE EFFECTS IN PANEL FLUTTER OF CYLINDRICAL SHELLS
AS-64-6 N64-28558 20-33

FLUTTER STUDY OF TWO-BAY FLAT PANELS AT SUPERSONIC SPEED TO DETERMINE INFLUENCE OF STRUCTURAL AND AERODYNAMIC COUPLING
SSD-TDR-64-164 N64-31983 23-33

PANEL FLUTTER MOTION IN GAS WITH SUPERSONIC SPEED - GALERKIN METHOD
FTD-MT-63-136 N64-33031 24-33

FLUTTER OF CYLINDRICAL SHELL MOVING IN SUPERSONIC GAS FLOW - GALERKIN METHOD N64-33032 24-33

STABILITY OF FASTENED PANEL IN SUPERSONIC FLOW - GALERKIN METHOD N64-33033 24-33

PAPER
CF CELLULOSE
COMBUSTIBLE MANDREL FROM NITROCELLULOSE PAPER
PA-TM-1324 N64-21749 15-26

REFLECTANCE OF WHITE PHOTOGRAPHIC PAPER
NASA-CR-56456 N64-24052 16-19

PARABOLA
PARABOLIC, HYPERBOLIC AND ELLIPTICAL BALLISTIC TRAJECTORY CALCULATIONS
NASA-CR-53850 N64-19603 12-05

PARABOLIC EQUATION
PARTIAL ELLIPTICAL AND PARABOLIC DERIVATIVES AND CURVILINEAR SINGULAR INTEGRALS
JPRS-18087 N64-10497 01-20

PARABOLIC EQUATION FOR LOGARITHMIC OXIDATION RATE OF NICKEL-THORIUM DIOXIDE ALLOY
HW-79350 N64-15833 07-07

PARABOLIC VELOCITY
AERODYNAMIC HEATING OF CONICAL VEHICLES ENTERING EARTH ATMOSPHERE AT SPEEDS GREATER THAN EARTH PARABOLIC SPEED
NASA-TR-R-185 N64-12107 03-30

TERMINAL CONTROL GUIDANCE DURING DIRECT & SKIP ENTRIES AT PARABOLIC VELOCITY
NASA-TN-D-2055 N64-14393 06-29

PARACHUTE
CF DECELERATOR
WING TIP PARACHUTE ON VENOM AIRCRAFT, DIRECTIONAL STABILITY DERIVATIVE AND RUDDER POWER MEASUREMENT
ARC-CP-658 N64-10139 01-03

PERFORMANCE CHARACTERISTICS OF PREFORMED ELLIPTICAL PARACHUTE AT ALTITUDES ABOVE 100,000-FT
NASA-TN-D-2183 N64-15222 07-04

WIND-TUNNEL STUDY OF SUPERSONIC PARACHUTES FOR HYPERFLO PARACHUTE DEVELOPMENT N64-15261 07-04

SUPERSONIC PARACHUTE USING SOLID CONE AND FLEXIBLE CANOPY
AGARD-445 N64-16298 08-04

STABILITY AND MOTION EQUATIONS FOR PARACHUTES
ARC-R&M-3352 N64-16940 09-03

LOW SPEED, FREE FLIGHT STABILITY AND DRAG CHARACTERISTICS OF RADIALLY VENTED PARACHUTES
NASA-TN-D-2271 N64-17729 09-04

NONLINEAR MOTION EQUATIONS FOR DYNAMIC STABILITY OF PARACHUTES
AGARD-444 N64-18716 11-04

BEHAVIOR OF GEMINI SPACECRAFT IN VERTICAL DESCENT AT LOW SUBSONIC SPEEDS - CORRECTIVE EFFECT OF DROGUE PARACHUTE
NASA-TN-D-2191 N64-20282 13-02

FIRING MECHANISM FOR ACTUATING PARACHUTES TO STABILIZE PILOT EJECTION SEATS AFTER EJECTION
FTD-TT-61-366/1&2 N64-21564 15-04

PARACHUTE JUMPING COUNTER FOR RAPID CALCULATION OF JUMPS
FTD-TT-63 1120/1&2 N64-22177 15-03

TAIL CONE AND CANDLE CASE COMPONENTS OF ILLUMINATING CARTRIDGE FOR PARACHUTE-SUSPENDED CANDLE
SR-251-1-63 N64-26670 18-04

FRICTION AND ARMING TIME IN SETBACK-LEAF SYSTEM - PARACHUTE OPERATION
HDL-TR-1232 N64-29810 21-17

OPTIMIZING SETBACK LEAF SYSTEMS FOR FUSE SAFETY IN PARACHUTE MALFUNCTION
HDL-TR-1233 N64-31110 22-04

PARACHUTE DECELERATOR TESTS AT HIGH ALTITUDES AND HIGH MACH NUMBERS
FDL-TDR-64-35, VOL. I N64-31694 23-04

WIND TUNNEL TEST PROGRAM FOR GLIDING PARACHUTE MODELS
PTH-754 N64-32423 23-04

RUSSIAN COSMONAUT REENTERS SPACE FLIGHT TRAINING - WORKING DAY DESCRIPTION - PARACHUTE JUMPS
FTD-TT-64-149/1&4 N64-33669 24-14

PARAGLIDER
FREE-FLIGHT INVESTIGATION OF RADIO CONTROLLED REENTRY SPACECRAFT WITH TELESCOPIC PARAWING RECOVERY SYSTEM
NASA-TN-D-2044 N64-11236 02-32

THEORETICAL AERODYNAMICS OF FLEXIBLE WINGS AT LOW SPEEDS - ONE-LOBED PARAWINGS
VIDYA-84 N64-13620 05-03

FLEXIBLE WING PARAGLIDER FOR CONTROLLED CARGO DELIVERY FROM FIXED OR ROTARY WING AIRCRAFT TO PREDETERMINED LANDING SITE
TRECOM-TR-63-64 N64-14978 06-04

AEROTHERMODYNAMIC AND STRUCTURAL CHARACTERISTICS FOR PARAGLIDER BOOSTER RECOVERY SYSTEMS N64-15263 07-30

ADVANCED CONCEPT INFLATABLE PARAGLIDER MODEL - MATERIAL AND STRUCTURAL TESTING AND EVALUATION
NASA-CR-55722 N64-15890 07-34

DEVELOPMENT OF FLEXIBLE INFLATABLE REENTRY PARAGLIDER - FIRST PROJECT
SGC-335R-5 N64-17270 09-17

METHODS FOR FABRICATING INFLATABLE REENTRY VEHICLE OF ROGALLO WING PARAGLIDER CONFIGURATION CAPABLE OF HYPERSONIC SPEEDS - FIRST PROJECT
SGC-335-1 N64-18065 10-17

AERODYNAMIC CHARACTERISTICS OF PARAFOIL GLIDER AND OTHER GLIDING PARACHUTES

RTD-TDR-63-4022 N64-22281 15-04

AIRMAT STRUCTURES FOR SPACE AND LIMITED WAR APPLICATION N64-23703 16-31

INFLATED PARAGLIDER FOR ESCAPE FROM MANNED ORBITING SPACE STATION N64-23715 16-32

LOW-SPEED LONGITUDINAL AERODYNAMIC INVESTIGATION OF PARAWINGS AS AUXILIARY LIFTING DEVICES FOR SUPERSONIC AIRCRAFT CONFIGURATION
NASA-TN-D-2346 N64-24589 17-03

FREE FLIGHT STUDY OF RADIO-CONTROLLED PARAWING MODEL TO DETERMINE DYNAMIC STABILITY AND CONTROL
NASA-TN-D-2291 N64-25807 17-04

DYNAMIC STABILITY OF TOWED PARAGLIDER AIR CARGO DELIVERY SYSTEM
NASA-TN-D-2292 N64-26416 18-04

PARALLAX
GEOMETRIC AND PHYSICAL METHODS FOR DETERMINING PARALLAX OF SUN
LT-61-99 N64-18146 10-05

PARALLEL
CATALYSIS IN ELECTROCHEMICAL ENERGY CONVERSION AND ELECTROCHEMICAL OXIDATION OF HYDROCARBON PARALLEL REACTIONS
NASA-CR-59094 N64-33197 24-07

ELECTROCHEMICAL OXIDATION OF MOLECULAR PARALLEL REACTIONS N64-33199 24-07

TOOL FOR MEASURING DEVIATION FROM PARALLEL N64-33613 24-15

PARALLEL PLATE
HOMOGENEITY OF LARGE APERTURE PARALLEL GLASS PLATES N64-15301 07-23

FLUTTER BOUNDARIES OF PARALLEL PLATES CONNECTED BY ELASTIC MEDIUM
NASA-RP-156 N64-19147 11-33

RADIATION PATTERN OF PARALLEL PLATE TRANSVERSE ELECTROMAGNETIC MODE WAVEGUIDE APERTURE
AD-433718 N64-20353 13-08

LAMINAR SLIP FLOW HEAT TRANSFER IN PARALLEL-PLATE CHANNEL OR ROUND TUBE WITH UNIFORM WALL HEATING
NASA-TN-D-2393 N64-26417 18-02

HEAT TRANSFER FOR LAMINAR SLIP FLOW OF RAREFIED GAS BETWEEN PARALLEL PLATES WITH UNSYMMETRICAL WALL HEAT FLUX
NASA-TN-D-2421 N64-26780 18-13

ELASTICITY THEORY FOR FLAT AND PARALLEL PLANES UNDER COMPOSITE BOUNDARY CONDITIONS N64-28494 20-33

PARAMAGNETIC RESONANCE
ELECTRON PARAMAGNETIC RESONANCE IN SOLID SUPER-COOLED SOLUTION OF FREE RADICALS N64-10855 02-25

ERRORS IN NUMERICAL EVALUATION OF MOMENTS OF PARAMAGNETIC RESONANCE LINE SHAPE
SSD-TDR-64-2 N64-17899 10-23

NARROW LINE PARAMAGNETIC RESONANCE ABSORPTIONS IN SINGLE CRYSTALS OF CALCITE
RADC-TDR-64-34 N64-18031 10-25

FLUORESCENCE IN CADMIUM TELLURIDE AND PARAMAGNETIC RESONANCE OF CHROMIUM IN CADMIUM TELLURIDE
AD-404859 N64-18202 10-25

PARAMAGNETIC RESONANCE OF CHROMIUM IN CADMIUM TELLURIDE N64-18204 10-25

PARAMAGNETIC RESONANCE IN LOADED HORIZONTAL SHAFT MOUNTED IN BEARING WITH RADIAL CLEARANCE
TIL/T-5461 N64-20868 14-17

PARAMAGNETIC RESONANCE OF TRIPLET STATE CYANOMETHYLENE
AROD-3192-3 N64-25401 17-07

PARAMAGNETIC RESONANCE OF TRANSITION ELEMENTS AND IRRADIATED MATERIALS N64-28094 20-25

SOLID STATE MASERS AND PARAMAGNETIC RESONANCE IN EXTREMELY HIGH FREQUENCY RANGE
ITR-4 N64-28645 20-25

ELECTRON PARAMAGNETIC RESONANCE OF CHOROPHYLL AND OTHER PIGMENTS
JPRS-26915 N64-32749 24-25

ZERO-FIELD PARAMAGNETIC RESONANCE SPECTRA OF WEAK CRYSTALLINE FIELD SITES OF CERIUM AND PRASEODYMIUM IN CALCIUM FLUORIDE
REPT.-3-53-64-2 N64-33148 24-25

ULTRAVIOLET IRRADIATION-INDUCED CATALYTIC ACTIVITY OF MAGNESIUM OXIDE USING ELECTRON PARAMAGNETIC RESONANCE SPECTRA
NASA-RP-348 N64-34011 24-07

PARAMAGNETISM
SA NUCLEAR MAGNETIC RESONANCE
WEAK UNIFORM MAGNETIC FIELD POLARIZING ELECTRON SPINS OF SUPERCONDUCTOR - NONVANISHING PARAMAGNETIC SUSCEPTIBILITY
LNF-63/71 N64-13024 04-23

PROPERTIES OF SUPERCONDUCTING ALLOYS CONTAINING PARAMAGNETIC IMPURITIES
AD-437194 N64-20155 13-25

PARAMAGNETIC RELAXATION IN CRYSTALS
AFCRL-64-307 N64-21316 14-25

METHOD FOR OBTAINING HEAT RESISTANT PARAMAGNETIC POLYMER BY REACTION OF DIAMINE WITH QUINONE
FTD-TT-62-1882/1&4 N64-21968 15-07

PARAMAGNETIC CENTERS IN GERMANIUM OXIDE GLASS CAUSED BY ELECTRON BOMBARDMENT AND GAMMA RADIATION
ORNL-3635 N64-23212 16-09

WEAK FERROMAGNETISM IN ORTHOFERRITES CONTAINING PARAMAGNETIC RARE EARTHS - ANTISYMMETRIC EXCHANGE MECHANISM
TN-2 N64-29613 21-25

CONVERSION RATE OF PARA-ORTHO HYDROGEN CAUSED BY PARAMAGNETIC ION ON CATALYST SURFACE
QPR-2 N64-32515 23-23

PARAMETER
S STOKES PARAMETER

PARAMETRIC AMPLIFIER
WIDE-BAND BEAM-TYPE PARAMETRIC AMPLIFIER
RADC-TDR-63-444 N64-12211 03-09

PARAMETRIC AMPLIFIER EFFECT ON STABILITY OF AUTOMATIC CONTROL SYSTEMS N64-13568 03-06

VARACTOR DIODE PARAMETRIC AMPLIFIER FOR USE WITH METEOROLOGICAL INSTRUMENTS
AFCRL-63-761 N64-13597 04-12

STABILIZATION OF GAIN OF PARAMETRIC AMPLIFIERS USED IN RADIOMETER RECEIVERS
AFCRL-63-573 N64-15685 07-09

LOW-NOISE MILLIMETER-WAVE PARAMETRIC AMPLIFIER
REPT.-2 N64-21831 15-08

ITERATIVE PARAMETRIC AMPLIFICATION WITH SEMICONDUCTOR REACTANCE DIODES
RSIC-146 N64-22914 16-09

SEMICONDUCTOR DIODE PARAMETRIC AMPLIFIER TO ENHANCE DYNAMIC RANGE OF RECEIVING SYSTEMS
ADC-TDR-64-83 N64-24193 16-09

HIGH FREQUENCY ELECTRON-BEAM PARAMETRIC AMPLIFIER
REPT.-10 N64-24596 17-09

LOW NOISE MILLIMETER WAVE PARAMETRIC AMPLIFIER
REPT.-3 N64-25704 17-09

SEMICONDUCTOR DIODE PARAMETRIC AMPLIFIERS AND CONVERTERS
NRL-6024 N64-25979 18-09

PHASE RELATIONSHIPS IN PARAMETRIC AMPLIFIERS
USAELRDL-TR-2451 N64-26175 18-09

HIGH FREQUENCY ELECTRON BEAM PARAMETRIC AMPLIFIER DEVELOPMENT
QPR-8 N64-27709 19-09

SINGLE CIRCUIT PARAMETRIC GENERATOR TO RECORD NUCLEAR MAGNETIC RESONANCE N64-29135 21-15

PARAMETRIC AMPLIFIER WITH LOW FREQUENCY PUMPING USING SEMICONDUCTOR DIODE N64-29463 21-09

SUBHARMONIC OSCILLATIONS IN PARAMETRIC DIODES
TN-7 N64-29600 21-09

APPLICATION OF LARGE SIGNAL NONLINEAR MICROWAVE EFFECTS IN FERROELECTRIC MATERIALS TO MICROWAVE POWER LIMITERS, PARAMETRIC AMPLIFIERS, AND HARMONIC GENERATORS
QR-3 N64-29653 21-25

X-BAND, BEAM-TYPE PARAMETRIC AMPLIFIER FOR OPERATION IN INSTANTANEOUS FREQUENCY BAND
RADC-TDR-64-280 N64-29928 21-09

IBM 1620 DIGITAL COMPUTER PROGRAMS FOR DESIGN OF COAXIAL DIPOLE PARAMETRIC AMPLIFIER ANTENNA
AFCRL-64-447 N64-30001 21-08

LOW LOSS DIELECTRICS FOR FOUR-MILLIMETER RESONANT STRUCTURES FOR FERROMAGNETIC TYPE PARAMETRIC AMPLIFIER
REPT.-10 N64-31255 22-25

RADIO ELECTRONICS - TRAVELING WAVE TUBES, RADIO WAVES, EXCITATION OF SURFACE ELECTROMAGNETIC WAVES, FERRITE PHASE SHIFTERS FOR CENTIMETER BAND, AND PARAMETRIC AMPLIFIERS
JPRS-26492 N64-31351 23-09

DIAGRAMS OF PARAMETERS OF RESONANT AMPLIFIERS
N64-31362 23-09

RADIO EMISSION MEASUREMENTS OF MOON USING MODULATION RADIOMETER WITH PARAMETRIC AMPLIFIER
NASA-TT-F-8768 N64-31561 23-05

PARAMETRIC AMPLIFIER ANTENNA STRUCTURES - DUAL COAXIAL LINE MEASUREMENTS AND SLOT ANTENNA STUDIES
AFCRL-64-648 N64-31995 23-08

P-N JUNCTION PHOTODETECTORS USING INTERNAL PARAMETRIC AMPLIFIERS
SRRC-RR-64-49 N64-32271 23-09

PARAMETRON
CF COMPUTER
CAPACITIVE PARAMETRON - DIFFERENTIAL EQUATION DERIVED DESCRIBING OPERATION N64-12729 04-09

INITIAL DIFFERENTIAL EQUATION OF INDUCTIVE PARAMETRON WITH FERRITE CORE FOR COMPUTERS & AUTOMATION DEVICES N64-12730 04-09

PARAMETRON ELECTRONIC DEVICE N64-24507 17-09

MAGNETIC THIN FILM PARAMETRON LOGIC ELEMENTS
REPT.-5 N64-28775 20-09

ANALOG COMPUTER SOLUTION OF EQUATIONS OF PARAMETRON WITH FERROMAGNETIC FILMS
N64-32912 24-09

PARAVULCOON
S BALLUTE
S DECELERATOR

PARITY
USE OF PARITY COEFFICIENT AND PARITY FUNCTION FOR DESCRIBING RELATIONSHIP BETWEEN TWO RANDOM VARIABLES, & FOR STUDYING RANDOM PROCESSES
FTD-TT-62-1191/1&2&4 N64-16056 07-20

USING POLARIZED THERMAL NEUTRONS AND PARITY NONCONSERVATION OF BETA DECAY TO DETERMINE SPIN LEVELS OF COMPOUND NUCLEUS N64-29056 21-23

CONFERENCE ON ELEMENTARY PARTICLES - PARITY NONCONSERVATION IN WEAK INTERACTIONS
N64-29060 21-23

PARITY INTERCHANGE OF STRONGLY INTERACTING PARTICLES BASED ON HIGHER SYMMETRY GROUP
UR-875-55 N64-33142 24-23

PARKING ORBIT
ADVANTAGES OF PARKING ORBIT FOR ACCOMPLISHING LUNAR MISSION
FTD-TT-63-699/1 N64-11169 02-29

EARTH PARKING ORBITS AND FREE RETURN CIRCUMLUNAR TRAJECTORIES FROM LAUNCH WINDOWS WITH FIXED AZIMUTHS - APOLLO PROJECT
AIAA PAPER-63-406 N64-11501 03-29

EFFECT OF PRECESSION OF NEAR-EARTH ORBITS ON TIMING OF INPLANE LAUNCHING FOR NODAL ENCOUNTER WITH MOON
NASA-TN-D-2442 N64-27975 20-29

IN-PLANE RENDEZVOUS FROM INNER CIRCULAR PARKING ORBIT TO OUTER CIRCULAR TARGET ORBIT
TDR-269/4550-10/-7 N64-29796 21-29

PAROTID
IDENTIFICATION AND SIGNIFICANCE OF PAROTID FLUID CORTICOSTEROIDS
SAM-TDR-63-86 N64-15742 07-16

PAROTID FLUID AND SERUM RESPONSES TO INTRAMUSCULAR INJECTION OF ADRENOCORTICOTROPIN /ACTH/ IN YOUNG ADULT MALES
SAM-TDR-64-37 N64-29286 21-16

PAROTID FLUID CORTICOSTEROID LEVELS IN ADULT MALES ONE AND TWO HOURS AFTER RECEIVING GRADED INTRAMUSCULAR DOSES OF ADRENOCORTICOTROPIN
SAM-TDR-64-50 N64-31053 22-16

PARTIAL DIFFERENTIAL EQUATION
SA HEAT EQUATION
SA KINETIC EQUATION
SA LAGRANGE MULTIPLIER
SA PARABOLIC EQUATION
PARTIAL ELLIPTICAL AND PARABOLIC DERIVATIVES AND CURVILINEAR SINGULAR INTEGRALS
JPRS-18087 N64-10497 01-20

GENERALIZATIONS OF ARBITRARY ELLIPTIC SYSTEM OF LINEAR PARTIAL DIFFERENTIAL EQUATIONS AND CAUCHY-RIEMANN EQUATIONS IN SEVERAL VARIABLES
AROD-2446-1 N64-13040 04-20

APPROXIMATION OF PARTIAL DIFFERENTIAL EQUATION BY HIGHER-ORDER DIFFERENCE ALGORITHM
RM-3917-ARPA N64-14774 06-20

MIXED BOUNDARY VALUE PROBLEM FOR LINEAR HYPERBOLIC PARTIAL DIFFERENTIAL EQUATIONS IN TWO INDEPENDENT VARIABLES
NOLTR-63-278 N64-15763 07-20

WAVEFRONTS & BOUNDARY WAVES - ELEMENTARY SOLUTION OF HYPERBOLIC PARTIAL DIFFERENTIAL EQUATION
MRC-434 N64-16835 08-20

GENERAL PARTIAL DIFFERENTIAL EQUATION FOR DETERMINING PHYSICAL PARAMETERS OF MOST LINEAR, SPACE DEPENDENT, REACTOR KINETIC MODELS
NAA-SR-7020 N64-19057 11-23

GOURSAT PROBLEM FOR THIRD ORDER HYPERBOLIC PARTIAL DIFFERENTIAL EQUATION
NOLTR-64-38 N64-20419 13-20

PARTIAL DERIVATIVES FOR COMPUTING ERRORS IN ELLIPTICAL ORBIT AND IMPACT PREDICTION
SSD-TDR-63-255 N64-21085 14-29

COMPUTER PROGRAM FOR SOLUTION OF ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS
CERN-63-7 N64-21732 15-20

MIXED BOUNDARY VALUE PROBLEM FOR LINEAR THIRD ORDER HYPERBOLIC PARTIAL DIFFERENTIAL EQUATIONS
NOLTR-64-70 N64-21810 15-20

PARTIAL DIFFERENTIAL EQUATION FOR CONDITIONAL PROBABILITY DENSITY DISTRIBUTION FOR NONLINEAR DYNAMIC SYSTEMS WITH NOISY MEASUREMENTS
TR-432 N64-22122 15-20

PARTIAL DIFFERENTIAL EQUATIONS FOR ASYMMETRICAL LOADING OF CONICAL SHELLS N64-22487 15-34

APPROXIMATE TRANSFER FUNCTION OF HEAT EXCHANGER DESCRIBED BY PARTIAL DIFFERENTIAL EQUATIONS
N64-25432 17-13

DIRICHLET PROBLEM FOR NONLINEAR ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS
BRL-MEMO-1215 N64-25487 17-20

BOUNDARY CONDITION WHEN QUASILINEAR PARTIAL DIFFERENTIAL EQUATION IS UNIQUE - MATHEMATICS
TN-BN-354 N64-25777 17-20

ASYMPTOTIC METHODS FOR SOLUTION OF INITIAL BOUNDARY VALUE PROBLEMS FOR LINEAR HYPERBOLIC PARTIAL DIFFERENTIAL EQUATIONS
AFCRL-64-387 N64-27439 19-20

PROPAGATORS OF QUANTUM FIELD THEORIES AS GREEN FUNCTIONS FOR BOUNDARY VALUE PROBLEMS IN PARTIAL DIFFERENTIAL EQUATIONS
NRL-6028 N64-28274 20-23

METHOD FOR INTEGRATING NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS APPLIED TO SYSTEM OF TWO EQUATIONS FOR DIGITAL COMPUTER SOLUTION
RM-4240-PR N64-30627 22-20

COMPUTER METHODS FOR NUMERICAL SOLUTION OF SYSTEMS OF NONLINEAR DIFFERENTIAL EQUATIONS
NASA-TT-F-8356 N64-31201 22-20

NONLINEAR ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS AND NUMERICAL SOLUTION USING STRUCTURE OF SOLUTIONS OF DIRICHLET PROBLEM
MRC-470 N64-31897 23-20

SOLUTION OF TWO BOUNDARY VALUE PROBLEMS FOR SECOND ORDER PARTIAL DIFFERENTIAL EQUATION
FTD-MT-63-347 N64-31976 23-20

QUASI-SEPARABLE SOLUTIONS TO PARTIAL DIFFERENTIAL EQUATIONS - ELLIPTIC CASE EQUATIONS
AROD-407-66 N64-32866 24-20

EXPANSION THEORY FOR SOLVING LINEAR INITIAL VALUE PROBLEMS IN PARTIAL DIFFERENTIAL EQUATIONS
NASA-CR-59322 N64-33685 24-20

PARTICLE
SA CHARGED PARTICLE
TRAPPED ELECTRON FLUX FROM BOMB NEUTRON DECAY - FLUX CALCULATIONS
NASA-TM-X-51055 N64-10295 01-23

CORRELATION OF RESONANCE & INELASTIC THRESHOLD INVOLVING UNSTABLE PARTICLES
NUP-63-13 N64-10311 01-23

THEORIES OF STRUCTURE AND COMPOSITION OF POLAR AURORA - TRAPPED PARTICLES AND SOLAR STREAMS DETERMINING FUNDAMENTAL CONSTANTS OF ASTRONOMY
JPRS-18276 N64-10639 01-12

MEASUREMENT OF PARTICULATE MATTER CONCENTRATION IN AIR - ATMOSPHERIC POLLUTION N64-11055 02-21

TRANSFER OF ANGULAR MOMENTUM BETWEEN EJECTED PARTICLES & BINARY SYSTEM - RESTRICTED THREE-BODY PROBLEM
NASA-RP-82 N64-11197 02-05

NEUTRAL HYDROGEN IN EARTH ATMOSPHERE AND INTERPLANETARY SPACE
JPRS-22331 N64-11785 03-12

TRAPPED ELECTRON FLUX MEASUREMENTS FROM HIGH ALTITUDE NUCLEAR EXPLOSION
AFCRL-63-891 N64-12181 03-12

NONRELATIVISTIC ELECTRONS IN MAGNETIC FIELD AND APPLICATION TO SOLAR PHYSICS
E-T-CH-63-3 N64-12198 03-28

THEORY OF CONDUCTIVITY PROBE - MASS OF COLLIDING PARTICLES AND ORBITS OF IONS & NEUTRAL PARTICLES
NASA-CR-55101 N64-12401 03-24

FLUID FLOW OF SUSPENDED PARTICLES - SQUID PROJECT
N64-13483 05-24

TRAPPED PROTONS IN SOUTHERN ATLANTIC MAGNETIC ANOMALY
SSD-TDR-63-342 N64-14643 06-12

RESONANT SCATTER DETECTION OF RAREFIED FUEL SURROUNDING MIDCOURSE VEHICLES N64-15264 07-21

NEUTRINO SPECTRA FROM TWO-BODY DECAY OF RELATIVISTIC PARENTS N64-15509 07-23

MAGNETIC SPARK CHAMBER - NEUTRINO DETECTION, LEPTON CONSERVATION, & VECTOR BOSON REDUCTION SIGNATURES N64-15510 07-23

PARTICLE SAMPLING FROM NOCTILUCENT CLOUDS USING SOUNDING ROCKETS N64-15558 07-21

TURBO - IBM COMPUTER CODE FOR SOLUTION TO NEUTRON DIFFUSION EQUATIONS
WCAP-6059 N64-17264 09-20

SPATIAL DIFFUSION OF SMALL PARTICLES IN EXPONENTIAL ATMOSPHERE
GCA-TR-63-5-G N64-17799 09-12

INTENSITIES AND ENERGIES OF SOLAR COSMIC RAY PARTICLES DETECTED NEAR EARTH N64-17891 10-28

INTENSITIES AND ENERGIES OF SOLAR COSMIC RAY PARTICLES DETECTED NEAR EARTH N64-17891 10-28

BOUNDARY CONDITION MODEL FOR ANTINUCLEON-NUCLEON SCATTERING
UR-875-24 N64-17982 10-23

CONVERGENCE OF PARTICLE RANDOM DISTRIBUTION IN SPACE ASSOCIATED WITH BRANCHING PROCESS
AD-434059 N64-18383 10-20

SURVEY OF DATA ON MICROSCOPIC EXTRATERRESTRIAL PARTICLES - METEOROLOGY N64-18496 10-05

ELECTRICAL COAGULATION OF SPHERICAL AEROSOL PARTICLES
FTD-MT-63-70/1&2 N64-18676 11-23

POLYMERIZATION OF AMINO ACIDS TO GIVE PROTEINS AND FORMED MICROPARTICLES N64-19151 11-16

EXPERIMENTS & RESEARCH IN ASTRONOMY, SOLAR PHYSICS, PLANETARY ATMOSPHERES, IONOSPHERES & RADIO PHYSICS, PARTICLES & FIELDS, AND BIOSCIENCES
NASA-TM-X-51603 N64-19258 11-01

THERMAL POLYMERIZATIONS OF AMINO ACIDS AND PRODUCTION OF FORMED MICROPARTICLES ON LAVA
N64-19953 12-07

SOLID STATE DETECTOR FOR PROTON ENERGY SPECTRUM MEASUREMENTS - SATELLITE INSTRUMENTATION
NASA-CR-53510 N64-19983 12-15

DISPERSION OF PASSIVE PARTICLES FROM POINT SOURCE IN SURFACE LAYER OF ATMOSPHERE N64-20211 13-21

INVESTIGATION OF UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V - LOW-ENERGY PARTICLES
N64-21633 15-28

INVESTIGATION OF UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V - HIGH ENERGY PARTICLES
N64-21634 15-28

DENSITY DISTRIBUTION AND INTENSITY OF CHARGED PARTICLES IN STATIONARY GEOMAGNETIC FIELD

N64-22030 15-28

DENSITY & INTENSITY DISTRIBUTION OF CHARGED PARTICLES IN STATIONARY GEOMAGNETIC FIELD
NASA-TT-F-8829 N64-23044 16-12

SPACECRAFT INVESTIGATION OF ENERGETIC PARTICLES AND MAGNETIC FIELDS IN SPACE
AIAA PAPER-64-337 N64-23229 16-28

EFFECT OF MEDIUM ON CYCLOTRON ACCELERATION OF RELATIVISTIC PARTICLES N64-23787 16-28

MICROWAVE AND ELECTRON BEAM INTERACTIONS WITH FINITE PLASMA
RADC-TDR-64-117 N64-24172 16-24

PLASMA INTERACTIONS WITH ELECTRON BEAMS, ELECTROMAGNETIC WAVES, AND MAGNETIC FIELDS
N64-24863 17-24

PHOTOIONIZATION, ELECTRON-TRAPPING, AND PHOTOCONDUCTION IN GLASSES
AFCRL-64-298 N64-25374 17-25

GEOGRAPHICAL POSITION OF PARTICLE INTENSITY MAXIMA IN OUTER RADIATION BELT AT LOW ALTITUDES
NASA-TT-F-8907 N64-25619 17-28

ONE-PARTICLE EXCHANGE APPROXIMATION AND FEYNMAN GRAPHS
TH-57 N64-26432 18-23

ASTRONAUT OBSERVATION OF LUMINOUS PARTICLES - MICROMETEORITES COLLIDING WITH SPACECRAFT SURFACE
NASA-TT-F-8916 N64-26713 18-28

EXPONENTIAL DAMPING OF LARGE TRANSVERSE MOMENTA OF PARTICLES PRODUCED IN HIGH ENERGY COLLISION
TH-58 N64-27219 19-23

DETECTION OF HIGH ENERGY PARTICLES IN UPPER ATMOSPHERE BY OBSERVATION OF NIGHT AIRGLOW
NASA-TT-F-9031 N64-27368 19-12

NONLINEAR INTERACTION PHENOMENON INVOLVING BEAM-PLASMA-ELECTROMAGNETIC WAVE COMBINATION
TR-69 N64-27958 20-24

ELECTROSTATIC FIELD DISTRIBUTION OF CHARGED TEST PARTICLE IN A PLASMA - ELECTROMAGNETIC RADIATION SPECTRUM OF ELECTRONS ACCELERATED BY ELECTROSTATIC FIELD
ARL-64-111 N64-28020 20-24

ION EXCHANGE WITH SLOW PARTICLE DIFFUSION TO STUDY PLUTONIUM BEHAVIOR
LA-3046 N64-28024 20-07

MONTE CARLO METHODS FOR CALCULATING DEEP PENETRATION OF NEUTRONS IN SHIELDS
N64-28640 20-20

CONSTRUCTION AND CALIBRATION OF SCANNING AND MEASURING PROJECTOR - DATA REDUCTION SYSTEM TO DIGITIZE COORDINATES OF BUBBLE CHAMBER PARTICLE TRACKS
UCRL-11372 N64-28779 20-15

GEOGRAPHIC LOCATION OF PARTICLE INTENSITY MAXIMA IN OUTER RADIATION BELT AT LOW ALTITUDES
N64-29087 21-28

CHARGED PARTICLE RESEARCH - TRAPPED VAN ALLEN RADIATION AND INTERPLANETARY COSMIC RAYS
N64-29400 21-12

MEASUREMENT OF PARTICLES PRODUCED IN HIGH ENERGY INTERACTIONS, AND TEMPORAL AND SPATIAL VARIATIONS OF COSMIC RAYS WITH NEUTRON MONITORS
AD-601938 N64-30484 22-28

METHODS OF SIZE PERCEPTION AND COUNTING PARTICLES IN HYDRAULIC FLUIDS AND LUBRICANTS
ML-TDR-64-72 N64-30652 22-15

ENERGETIC PARTICLE PRECIPITATION TO AURORAL ZONE
AFOSR-425 N64-30711 22-12

TWO-COMPONENT ANOMALOUS SPINOR EQUATIONS FOR PARTICLES OF NONVANISHING MASS DERIVED FROM COVARIANT LAGRANGIAN PRINCIPLE
ARL-64-163 N64-30950 22-23

CALCULATION OF MAIN PARAMETERS OF MICROWAVE TUBES WITH TUBULAR BEAMS OF CHARGE PARTICLES
N64-31369 23-09

NON-MARKOVIAN MODEL FOR POPULATION TRANSITION PROBABILITIES FOR BRANCHING PROCESSES WITH PARTICLES DIFFUSING IN FINITE INTERVAL
MRC-481 N64-31955 23-20

POINT OF INSTABILITY OF GENERAL RELATIVISTIC FLUID SPHERE WITH CONSTANT ENERGY DENSITY AND HEAT CAPACITY
MRC-487 N64-31960 23-23

INTERACTION OF ELECTROMAGNETIC WAVES AND CLASSICAL PLASMAS - DISTRIBUTION FUNCTION THEORY AND BOLTZMANN EQUATION
R-7-64-1 N64-32159 23-24

CESIUM ION-NEUTRAL SCATTERING AND ION MOBILITY IN LOW FIELD LIMIT
NASA-TM-X-52061 N64-32437 23-24

PARITY INTERCHANGE OF STRONGLY INTERACTING PARTICLES BASED ON HIGHER SYMMETRY GROUP
UR-875-55 N64-33142 24-23

PARTICLE ACCELERATION

OPTICAL PUMPING OF GASES, ARTIFICIALLY ACCELERATED PARTICLES, & COSMIC RADIATION
JPRS-19547 N64-11070 02-23

RECIPROCAL EFFECTS OF ARTIFICIALLY ACCELERATED ELEMENTARY PARTICLES IN THE GEV RANGE AND COSMIC RADIATION N64-11072 02-23

MECHANISMS RESULTING IN ACCELERATION OF CHARGED PARTICLES TRAPPED WITHIN MAGNETOSPHERE
SWC-TDR-62-133 N64-11815 03-12

CHARGED PARTICLE ACCELERATION IN PERPENDICULAR MAGNETOHYDRODYNAMIC SHOCK WAVE
AFOSR-2249 N64-12075 03-23

BEAM INJECTION TO LARGE RADIO FREQUENCY SYNCHROTRON - PARTICLE ACCELERATION
CERN-64-20 N64-21775 15-24

ION SOURCE FOR PROTON ACCELERATOR INJECTOR
FTD-TT-63-68/1&2&4 N64-23418 16-23

EFFECT OF MEDIUM ON CYCLOTRON ACCELERATION OF RELATIVISTIC PARTICLES N64-23787 16-28

COMPARISON OF PROTON AND DEUTERON ACCELERATION IN LINEAR ACCELERATOR
CERN-64-22 N64-25522 17-23

RADIOFREQUENCY RADIATION AND PARTICLE ACCELERATION FROM SOLAR FLARE FILAMENTS DUE TO ROTATIONAL COLLECTIVE MOTION OF ELECTRONS OR IONS
N64-30291 22-28

ORIGIN OF SOLAR FLARES AND ACCELERATION OF CHARGED PARTICLES N64-30295 22-28

DISCHARGE THEORY OF SOLAR FLARES - GROWTH RATE OF FLARES, PARTICLE ACCELERATION, TOPOLOGY OF MAGNETIC FIELDS, AND PROTON EVENT PREDICTION
N64-30297 22-28

SOLAR FLARE PROCESS - SOLAR WIND AS ENERGY SOURCE, MAGNETIC STORAGE OF ENERGY, AND PARTICLE ACCELERATION N64-30302 22-28

PARTICLE ACCELERATOR

SA BETATRON
SA BEVATRON
SA CYCLOTRON
SA ELECTRON ACCELERATOR
SA LINEAR ACCELERATOR
SA SYNCHROTRON
AEC CROSS-SECTION MEASUREMENT PROGRAM - NEUTRON ACCELERATOR AND PHYSICS

WASH-1044 N64-10271 01-01

ULTRAPURE MATERIALS, RADIATION EFFECTS, REACTORS, RADIOCHEMISTRY, RADIATION HAZARD, AND PARTICLE ACCELERATOR - COMPILATION OF PAPERS
JPRS-20730 N64-10844 02-01

PROTON ACCELERATOR FOR LUMINESCENT EXCITATION IN METEORIC SAMPLES AND PHOTOELECTRIC SPECTRO-PHOTOMETER FOR LUNAR LUMINESCENCE SIMULATION
AFCRL-63-759 N64-12709 04-29

AMPLIFIERS FOR RADIO FREQUENCY SYSTEMS OF PARTICLE ACCELERATORS
LNF-63/64 N64-13175 04-23

USE OF OPTICS FOR STUDY OF POSITRON TRANSFER IN LINEAR ACCELERATOR
LNF-63/70 N64-13177 04-23

DEVELOPMENT STATUS OF 2.5 TO 5.0-MEV MICROTRON
LNF-63/73 N64-13178 04-23

RADIOFREQUENCY METHOD OF INFLECTING PARTICLES INTO ORBITS FOR SUBSEQUENT ACCELERATION IN CYCLIC PARTICLE ACCELERATOR
NURA-674 N64-13330 04-23

VERY LONG LINEAR ACCELERATOR FACILITY - KLYSTRON, DATA HANDLING, ACCELERATOR, AND MICROWAVE SYSTEMS, STRUCTURES, AND ENGINEERING
SLAC-23 N64-13367 04-23

STORAGE RING BAFFLE PLATES FOR PARTICLE ACCELERATOR
LNF-63/72 N64-14449 06-23

FORTRAN COMPUTER PROGRAM TO ESTIMATE RESIDUAL RADIATION LEVELS IN HIGH ENERGY CHARGED PARTICLE ACCELERATOR
ORNL-3554 N64-16695 08-20

ATOMIC NUCLEUS AND TYPES OF NUCLEAR REACTIONS DETERMINATION USING CHARGED PARTICLE ACCELERATORS
FTD-TT-62-957/162 N64-19190 11-23

TRANSPORT OF ACCELERATED POSITRONS IN NONPLANAR WAVE IN PARTICLE ACCELERATOR
LNF-64/5 N64-23013 16-23

ERRORS IN CONSTRUCTING MAGNETIC COMPONENTS OF ACCELERATORS
LNF-64/1 N64-23020 16-23

ENGINEERING OF ACCELERATOR STRUCTURES - KLYSTRON, AND MICROWAVE ELECTRONIC DEVICES
SLAC-30 N64-26792 18-10

INTENSE NEUTRON GENERATOR CAPABLE OF GENERATING HIGH THERMAL FLUX BASED ON PROTON ACCELERATOR
AECL-2059 N64-30460 22-10

PARTICLE BEAM
SA MOLECULAR BEAM
SA NEUTRON BEAM
SA PHOTON BEAM
SA PROTON BEAM
EFFECT OF BETATRON OSCILLATIONS ON THE LONGITUDINAL STABILITY OF A COASTING BEAM
UCRL-6794 N64-11579 03-23

55-MILLION ELECTRON VOLT LINEAR ACCELERATOR TO PROVIDE HIGH INTENSITY BEAMS /LINAC/
N64-18071 10-23

RANDOM OPTICS OF PARTICLE BEAMS
REPT.-03106-15 N64-27678 19-23

QUADRUPOLE LENSES WITH LARGE ELLIPTICAL APERTURES FOR HIGH INTENSITY PARTICLE BEAMS FROM ACCELERATORS
CERN-64-34 N64-28656 20-23

PARTICLE CLOUD
HEAT TRANSFER TO GAS CONTAINING CLOUD OF PARTICLES
NASA-CR-58088 N64-26361 18-13

AIRCRAFT MEASURING INSTRUMENT FOR DIMENSIONS AND CONCENTRATIONS OF LARGE PARTICLES IN CLOUDS AND PRECIPITATION N64-32336 23-15

PARTICLE COLLISION
SA MOLECULAR COLLISION
ALKALI METAL VAPOR ARC TUNNEL TO STUDY COLLISION PROCESSES IN GASES BEHIND STRONG SHOCK WAVES
NOLTR-63-105 N64-11745 03-15

THEORY OF CONDUCTIVITY PROBE - MASS OF COLLIDING PARTICLES AND ORBITS OF IONS & NEUTRAL PARTICLES
NASA-CR-55101 N64-12401 03-24

QUANTUM MECHANICS OF LOW ENERGY, HEAVY PARTICLE COLLISIONS IN CHEMICAL REACTIONS
NASA-CR-53683 N64-19606 12-23

WAVE SCATTERING & PARTICLE COLLISION INTERACTION - QUANTUM MECHANICS
AD-432060 N64-20344 13-23

RESONANCE SCATTERING THEORY - MULTIPLE CHANNEL COLLISIONS OF NUCLEAR PARTICLES
REPT.-2-12-64-1 N64-20890 14-23

NUCLEAR SYNTHESIS REACTION USING COLLIDING BEAMS OF DEUTERONS AND TRITONS
FTD-TT-62-1901/1&2&4 N64-22409 15-24

EFFECTIVE COLLISION CROSS SECTIONS IN MONOCHROMATIC BEAM SCATTERING
NASA-TT-F-8880 N64-23050 16-23

DENSITY MEASUREMENTS OF GASEOUS MEDIUM BASED ON TIME OF FLIGHT OF PARTICLE TRAVERSING MEDIUM - COLLISION PROCESSES OF IONS WITH MOLECULES
N64-26970 19-15

INTERACTION OF ATOMS WITH SURFACE OF SOLID - ENERGY AND MOMENTUM EXCHANGE IN PARTICLE COLLISION
N64-27981 20-11

PARTICLE COUNTER
RADIOACTIVE ELEMENTS - SEPARATION, HALF-LIFE, PARTICLE SOURCE AND COUNTING
MLM-1170 N64-32826 24-07

PARTICLE DECAY
VECTOR BOSON PRODUCTION AND DECAY - NEUTRINO EXPERIMENTS N64-15583 07-23

UNITARY SYMMETRY SCHEME FOR KION-TO-PION DECAY PRODUCED BY HAMILTONIAN INTERACTION - PHYSICS
TH-44 N64-19243 11-23

GREEN FUNCTION METHOD FOR QUASI-PARTICLE LIFETIMES
N64-19427 12-20

BOSON POLE APPROXIMATION FOR EXPLAINING THREE PION DECAY MODES OF KAONS AND FOR NEUTRAL KAON-2 MINUS NEUTRAL KAON-1 MASS DIFFERENCE
UR-875-29 N64-19906 12-23

PROPERTIES OF OMEGA MESON - DECAY MODE STUDIES
UCRL-10723 N64-21037 14-23

PARTICLE FLUX
PARTICLE CURRENT ACROSS BOUNDARY SURFACE OF UNIFORMLY EMITTING AND SELF-ABSORBENT INFINITE CIRCULAR CYLINDER
EUR-209.F N64-10464 01-23

INTEGRO-DIFFERENTIAL EQUATION DESCRIPTION OF ONE-DIMENSIONAL PARTICLE FLUX TRANSPORT PROCESSES
RM-3862-ARPA N64-14816 08-23

COMPUTER PROGRAMS FOR INELASTIC KINEMATICS AND DENSITY OF PARTICLES ON PLANE
CERN-64-8 N64-18205 10-23

SPECTRUM OF IONIZED AND NEUTRAL PARTICLE DENSITY FLUCTUATIONS IN THERMALLY PRODUCED TURBULENT PLASMA
TR-15 N64-22891 16-24

SOLUTIONS TO NONLINEAR DIFFERENTIAL EQUATIONS OF RADIATIVE TRANSPORT PROCESSES - PARTICLE INTERACTION
RM-4075-PR N64-25744 17-23

PROTON ENERGY DEGRADATION AND FLUX ATTENUATION AS FUNCTION OF PENETRATION DEPTH OF SHIELDING MATERIALS
NASA-TM-X-53063 N64-30510 22-23

SATELLITE MEASUREMENTS OF X-RAY EMISSION, CHARGED PARTICLE FLUX, AND SOLAR FLARES
N64-30572 22-28

CHARGED PARTICLE FLUX AND ENERGY SPECTRA IN LAYERS OF MAGNETOSPHERE DETERMINED BY P-11 SUBSATELLITE
ASE-546 N64-31843 23-28

METEORITIC FLUX AND DENSITY FIELDS ABOUT FINITE ATTRACTIVE CENTER GENERATED BY STREAM MONOENERGETIC AND MONODIRECTIONAL AT INFINITY
NASA-RP-327 N64-32381 23-29

METEORITIC FLUX AND DENSITY FIELDS ABOUT INFINITESIMAL ATTRACTIVE CENTER GENERATED BY STREAM MONOENERGETIC AND MONODIRECTIONAL AT INFINITY
NASA-RP-329 N64-32382 23-29

PARTICLE FLUX-WAVE INTERACTION IN UPPER IONOSPHERE
SU-SEL-64-063 N64-33554 24-12

PARTICLE IN CELL TECHNIQUE
NUMERICAL INTEGRATION TRUNCATION ERRORS IN PARTICLE-IN-CELL TECHNIQUE FOR SOLUTION OF ONE-DIMENSIONAL FLOW PROBLEM
RM-3613-PR N64-26263 18-11

PARTICLE MOTION
SA ELECTRON MOBILITY
ANGULAR SCATTERING FROM IRREGULARLY SHAPED PARTICLES WITH APPLICATION TO ASTRONOMY
NASA-RP-64 N64-10331 01-29

UNIFORM MOTION OF PARTICLES, SHAPE COEFFICIENTS, SETTLING VELOCITY OF DUST PARTICLES, AND BROWNIAN MOTION - AIR POLLUTANTS N64-11049 02-21

INTEGRABILITY OF MOTION EQUATIONS OF PARTICLE UNDER ACTION OF NEWTONIAN FORCE & ADDITIONAL PERTURBATION FORCE N64-11426 02-20

RAYLEIGH WAVE ANALYSIS OF PARTICLE MOTION IN SOLID-LIQUID INTERFACE N64-12408 04-11

INTERACTION OF SOLID PARTICLES WITH IONIZED GAS - SQUID PROJECT
ILL-12-P N64-13242 04-23

PARTICLE MOTION IN VAN ALLEN RADIATION BELTS
N64-15283 07-28

ALFVEN THEORY FOR INTERPRETING VAN ALLEN BELTS AND MOTION OF CHARGED PARTICLES IN MAGNETIC FIELD
AFCRL-64-226 N64-16491 08-28

PARTICLE DYNAMICS IN STANDING WAVE ALVAREZ LINEAR ACCELERATOR WITH QUADRUPOLE FOCUSING MAGNETS
MURA-679 N64-16569 08-23

AREA OF MOVEMENT OF CHARGED PARTICLES IN DIPOLE MAGNETIC FIELDS AS INDICATED BY GLOW DISCHARGE
N64-17346 09-24

THREE-PARTICLE SCATTERING IN SPACE INCLUDING THREE-BODY CASE
NASA-CR-53233 N64-17577 09-23

OPTICAL FIBER DETERMINATION OF SOLID PARTICLE VELOCITY IN TWO-PHASE GAS-SOLIDS IN TURBULENT PIPE FLOW - SQUID PROJECT
PR-107-P N64-19635 12-11

MOTION OF CHARGED PARTICLES IN FIELD OF MAGNETIC DIPOLE WITH ALLOWANCE FOR ENERGY DISSIPATION
NASA-TT-F-8830 N64-23045 16-23

MOTION OF CHARGED PARTICLE THROUGH STATIONARY MAGNETIC FIELD IN APPROXIMATION OF AVERAGE DRIFT
N64-23858 16-27

PATH ANGLES, ANGLES OF ATTACK, AND DRIFT FOR LARGE PARTICLE MOTIONS IN MOVING FLUID
DTMB-1813 N64-24190 16-02

SEPARATION OF ELECTRONIC AND NUCLEAR MOTIONS IN MOLECULES USING TIME-DEPENDENT QUANTUM MECHANICAL METHODS
ARL-64-134 N64-26925 18-23

MOTION OF INDIVIDUAL ELECTRON IN SPECIFIED FIELDS OF INTERELECTRODE SPACE OF MAGNETRON
N64-27163 19-09

EFFECT OF PARTICLE INTERNAL MOTION IN COMBUSTION CHAMBER AND JET NOZZLE ON PRINCIPAL VECTOR AND MOMENT OF REACTIVE FORCES
NASA-TT-F-9041 N64-27231 19-26

DYNAMICS OF GAS-PARTICLE FLOW SYSTEM CONTAINING SMALL SOLID PARTICLES N64-28183 20-11

VECTOR POTENTIAL AND MOTION OF CHARGED PARTICLES IN AXISYMMETRIC MAGNETIC FIELD
NASA-RP-293 N64-28354 20-24

PARTICLE COORDINATES AND PARTICLE MOTION AS COLLECTIVE COORDINATES FOR LINEAR TRANSFORMATION OF DEVIATION FROM UNPERTURBED ORBIT
LP-36 N64-30490 22-24

PARTICLE PRODUCTION
OXIDE SYSTEMS EVALUATION AND OXIDE PARTICLE DEVELOPMENT
AD-422406 N64-12038 03-07

RESONANT PHENOMENA IN STRANGE PARTICLE PRODUCTION
R-363 N64-13174 04-23

CALCULATION OF INTEGRAL MULTIPLICITY OF MU-MESON PRODUCTION IN ATMOSPHERE FOR OBSERVATION UNDER DIFFERENT THICKNESSES OF ABSORBER
N64-25939 18-28

THERMAL DECOMPOSITION AND PARTICLE FORMATION OF HYDROCARBON FUELS
ASD-TDR-63-102, PT. II N64-31820 23-26

PHOTOPRODUCTION OF BARYONS & MESONS AND UNITARY SYMMETRY
UR-875-52 N64-33006 24-23

HELIOGRAPHIC LONGITUDE OF SOLAR FLARES PRODUCING ENERGETIC PARTICLES
NASA-TM-X-55086 N64-33628 24-28

PARTICLE PROPERTY
CERAMIC FORMING PROCESSES AND PARTICLE CHARACTERISTICS
RTD-TDR-63-4069 N64-16576 08-17

PROPERTIES OF PARTICLES AND ASSEMBLIES OF PARTICLES - CERAMICS N64-16577 08-23

BIBLIOGRAPHY OF CHARACTERISTICS OF PARTICLES & PARTICLE ASSEMBLIES N64-16582 08-19

VECTOR ANALYSIS OF PARTICLE STRUCTURES USING MASS SPECTROMETER
NUP-64-1 N64-19475 12-23

ACOUSTICAL AND CINEMATIC APPLICATIONS OF OPTICAL AND ELECTRICAL PROPERTIES OF PARTICLES IN SUSPENSION N64-24131 16-23

PARTICLE SIZE
CF DIFFRACTOMETER
CALCULATION OF VOLUME AND SURFACE AREA FOR VARIOUS PARTICLES
IDO-14617 N64-11277 02-15

PARTICLE SIZE DISTRIBUTIONS ON CASCADE IMPACTOR USED TO SAMPLE AEROSOLS
LF-12 N64-12939 04-15

ATMOSPHERIC AEROSOL PARTICLE SIZE DISTRIBUTION AND INFLUENCE ON LIGHT SCATTERING PROPERTIES OF ATMOSPHERE N64-15459 07-23

DENSITY, PARTICLE SIZE, AND SURFACE AREA OF CERIA POWDERS DERIVED FROM SALTS
BM-RI-6375 N64-15991 07-19

THRUST MEASUREMENTS OF COLLOIDAL PARTICLES AS INDICATION OF PARTICLE SIZE & THRUSTOR OPERATION
AIAA PAPER-63-050 N64-20712 13-27

BORON PARTICLE SIZE, SPECTROCHEMICAL ANALYSIS, PYROHYDROLYSIS, MOLYBDENUM AND TECHNETIUM HYDROLYSIS
NBL-210 N64-23061 16-23

PARTICLE SIZE SEPARATION OF TITANIUM DIOXIDE PIGMENTS
NASA-CR-78 N64-23912 16-17

ULTRAFINE GRAIN GRAPHITE MATERIALS FOR SPACE APPLICATIONS
WADD-TR-61-72, VOL. 38 N64-24184 16-19

PARTICLE SIZE CONSIDERATIONS OF AIRBORNE CONTAMINANTS N64-24628 17-16

EFFECTS OF PARTICLE SIZE AND NONSTOICHIOMETRIC COMPOSITION ON BURNING RATES OF COMPOSITE SOLID PROPELLANTS N64-28193 20-26

OPTIMUM SUSPENDED PARTICLE SIZE FOR ACOUSTIC ATTENUATION IN ROCKET PROPELLANT COMBUSTION
ABL/X-115 N64-31030 22-23

AIRCRAFT AND RADIOSONDE INSTRUMENTS FOR MEASURING RAINDROP SIZE N64-32337 23-15

CONCENTRATION AND PARTICLE SIZE DISTRIBUTION OF DUST PASSING GAS TURBINE AIR CLEANERS AND ENTERING ENGINE
TRECOM-TR-64-16 N64-32614 23-27

HANDBOOK ON SAFETY PROBLEMS IN PYROTECHNICS LABORATORY AND PLANT, PROCESSING PROCEDURES AND EQUIPMENT, AND PARTICLE SIZE PROCEDURES
AMCP-706-186 N64-33131 24-17

PARTICLE THEORY
INVARIANT PHASE-SPACE INTEGRAL FOR SYSTEM OF N-PARTICLES
LNF-63/77 N64-14451 06-23

THEORETICAL DEVELOPMENTS IN ELEMENTARY PARTICLE PHYSICS N64-22877 16-23

PASCAL TRIANGLE
RELATION OF PASCALS TRIANGLE TO CERTAIN FUNCTIONS WHICH PERMIT FORMATION OF COEFFICIENTS BY PROCESS OF SUMMATION
BRL-1214 N64-12923 04-20

PASSENGER
TECHNOLOGICAL FORECAST OF PASSENGER-CARRYING SUPERSONIC AIRCRAFT
FTD-TT-64-575/1&2&3&4 N64-30133 21-04

PASSIVE SATELLITE
LENS REFLECTOR ELEMENT FOR PASSIVE COMMUNICATIONS SATELLITE
ASD-TDR-63-781 N64-14321 06-32

SPACE COMMUNICATIONS & PASSIVE SATELLITES - INSTRUMENTATION DEVELOPMENT
RADC-TDR-63-611, SUPPL. 1 N64-14350 06-15

CONTROL SYSTEM USING SOLAR FLUX AS FORCE TO CHANGE ORBITAL PARAMETERS OF PASSIVE COMMUNICATIONS SATELLITE
NASA-CR-53578 N64-18440 10-30

PARAMETRIC ANALYSIS OF MEDIUM ALTITUDE ACTIVE AND PASSIVE SATELLITE COMMUNICATION SYSTEMS
ICS-63-TR-250 N64-19971 12-32

PASSIVELY ORIENTED LENTICULAR SATELLITE
NASA-CR-53938 N64-20009 13-32

PERFORMANCE OF TRANSPORTABLE PASSIVE SATELLITE COMMUNICATIONS TERMINAL
RADC-TDR-62-502 N64-21412 14-10

DESIGN AND FABRICATION OF INFLATABLE AND RIGIDIZABLE PASSIVE COMMUNICATION SATELLITES N64-23728 16-32

INFLATABLE MATERIAL REQUIREMENTS FOR PASSIVE COMMUNICATION SATELLITE N64-23730 16-32

BUCKLING OF ECHO A-12 PASSIVE COMMUNICATIONS SATELLITE
NASA-TN-D-2383 N64-25913 18-34

FEED AND FRONT END ASSEMBLY IMPROVEMENT FOR PASSIVE SATELLITE RESEARCH TERMINAL
RADC-TDR-182 N64-29825 21-10

PASSIVE SATELLITE FOR EUROPEAN TELEVISION
NASA-TT-F-9138 N64-33403 24-32

PASSIVITY
PASSIVATION OF ALUMINUM ELECTRODES IN ANHYDROUS HYDROGEN FLUORIDE
TRACOR-63-278-U N64-13313 04-07

SELF-PASSIVATION OF TITANIUM IN ACIDIC, BASIC AND NEUTRAL MEDIA N64-20914 14-18

PASSIVE TELEMETRY OF PHYSIOLOGICAL PHENOMENA
NASA-CR-56942 N64-27314 19-16

PASTEURIZATION
RADIATION PASTEURIZATION OF FOODS
TID-7684 N64-20717 13-17

PATENT
SOVIET PATENTS FOR ELECTRIC, ELECTRONIC, AND ELECTROMECHANICAL EQUIPMENT
JPRS-21953 N64-10851 02-09

PATH
SA FLIGHT PATH
SA MULTIPATH PROPAGATION
SA TRAJECTORY
PATH ANGLES, ANGLES OF ATTACK, AND DRIFT FOR LARGE PARTICLE MOTIONS IN MOVING FLUID
DTMB-1813 N64-24190 16-02

GAS DENSITY MEASUREMENTS BY LITHIUM ION PATH LENGTH DETERMINATIONS N64-26972 19-15

SUBPROGRAM FOR OPTICAL SYSTEM TRACING USING IBM 7090 COMPUTER
WRE-TN-CPD-80 N64-27415 19-23

TABULATION OF OPTICAL PATH DATA FOR FOLLOWING RAY THROUGH EARTH ATMOSPHERE - DIOPTRIC TABLES
NAVWEPS-8504 N64-29306 21-12

OPTICAL PATH IMPERFECTION EFFECT ON FABRY-PEROT MODULATOR PERFORMANCE
AL-TDR-64-141 N64-30762 22-23

PATHOLOGICAL EFFECT
S STRESS /BIOL/

PATHOLOGY
SA DISEASE
MEDICAL CONFERENCES ON MINERAL WATER USE, CLIMATOPATHOLOGY, CORONARY SURGERY, HIGH ALTITUDE PHYSIOLOGY, AND EPIDEMIOLOGY
JPRS-21836 N64-10515 01-16

PATHOLOGICAL PHYSIOLOGY AND EXPERIMENTAL THERAPY - RADIATION SICKNESS, CONGENITAL DISEASE, AND HETEROHEMOTRANSFUSION REACTIONS
JPRS-17819 N64-10723 02-16

PATHOLOGICAL AND MORPHOLOGICAL CHANGES OF NERVOUS SYSTEM CAUSED BY VIBRATION N64-10781 02-16

CENTRAL NERVOUS SYSTEM TISSUE AND CELLULAR PATHOLOGY IN HYPOXEMIC STATE N64-14594 06-16

INFLUENCE OF HYPOXIA ON VARIOUS PATHOLOGICAL CHANGES - HYPOXEMIC LESIONS N64-14598 06-16

CYBERNETIC RELATION TO SCIENCE AND TECHNOLOGY, NEUROLOGY, PATHOLOGY, MATHEMATICS, AND PHILOSOPHY
JPRS-23234 N64-14944 06-16

PATHOLOGICAL STUDIES ON STEROID SEX HORMONES, RADIATION EFFECT ON METABOLISM, LEUKEMIA, PARATHYROID, AND HYPOTHYROIDISM
ARCH-20 N64-15398 07-16

PATHOGENETIC MECHANISMS IN DEVELOPMENT OF BURN SICKNESS
JPRS-24338 N64-18976 11-16

PHYSIOLOGY AND PATHOLOGY OF CIRCULATORY SYSTEM
NASA-TT-F-173 N64-23204 16-16

PATHOLOGY AND PHYSIOLOGY OF ADAPTIVE CONTROL AND PROTECTION MECHANISMS IN ANIMALS
FTD-TT-62-1548/1&2&4 N64-23463 16-16

ADAPTATION REACTIONS AND PATHOLOGICAL STUDIES OF ORGANISM EXPOSED TO HARMFUL STIMULI
N64-23465 16-16

FORMATION OF COMPLEX SPATIAL NOTIONS IN NORMAL AND PATHOLOGICAL SUBJECTS - ROLE OF SPEECH
N64-25143 17-16

STRUCTURE, PROPERTIES, AND PATHOLOGICAL CHANGES OF ELASTIC FIBROUS COMPONENTS OF CONNECTIVE TISSUE
JPRS-25252 N64-26056 18-16

PATHOLOGY AND TOXICOLOGY OF REPEATED DOSES OF HYDRAZINE AND DIMETHYLHYDRAZINE IN MONKEYS AND RATS
AMRL-TDR-64-48 N64-29938 21-16

ULTRASONICS FOR SOFT TISSUE AND ORGAN STUDY - DIAGNOSIS OF PATHOLOGICAL PROCESSES
N64-30238 22-16

PHYSIOLOGY & PATHOLOGY OF WATER & SALT METABOLISM AND FLUID BALANCE OF WORKERS IN HOT ENVIRONMENTS
NASA-TT-F-9120 N64-33399 24-16

PATIENT
CF DISEASE
CF INJURY
ASSIMILATION OF LARGE SUDDENLY INGESTED QUANTITIES OF WATER BY PATIENTS
NASA-TT-F-9114 N64-33396 24-16

PATTERN
S DIFFRACTION PATTERN
S FLOW PATTERN

PATTERN RECOGNITION
BEHAVIORAL TESTING DURING 7-DAY CONFINEMENT IN SIMULATED SPACE CAPSULE - PATTERN RECOGNITION TASK
NASA-TN-D-1974 N64-11549 03-14

ADAPTIVE MEMORIES AND PATTERN RECOGNITION TECHNIQUES FOR RECONNAISSANCE
RADC-TDR-63-371 N64-14309 06-20

TWO-LAYER LEARNING MACHINE /PERCEPTRON/ FOR DETECTION & DETERMINATION OF FEATURES IN PATTERNS
RADC-TDR-63-467 N64-14310 06-20

BIBLIOGRAPHY - STAR PATTERN RECOGNITION
SID-63-710 N64-14424 06-05

THEORY OF MOMENT INVARIANTS APPLICATION TO ADAPTIVE PATTERN RECOGNITION N64-15815 07-20

EXPERIMENTAL STUDIES OF PATTERN RECOGNITION USING MOMENT INVARIANTS N64-15816 07-20

PATTERN RECOGNITION RESEARCH FOR DEVELOPING MECHANICAL PROCEDURE FOR USING METEOROLOGICAL SATELLITE DATA
NASA-CR-53587 N64-18435 10-12

LINEAR THRESHOLD FUNCTIONS FOR PATTERN RECOGNITION BY ADAPTIVE MECHANISMS
RADC-TDR-64-32 N64-19053 11-20

EFFICIENCY OF TRAINING OF PERCEPTRON IN PATTERN RECOGNITION
RADC-TDR-64-33 N64-19063 11-20

PATTERN RECOGNITION & DETECTION OF BANDWIDTH COMPRESSION OF LUNAR AND PLANETARY TELEVISION TRANSMISSION - MATHEMATICAL IMAGE ANALYSIS
NASA-CR-53738 N64-19353 12-08

PATTERN RECOGNITION SYSTEMS - RECEPTOR EFFECTIVENESS AND SYMBOL RECOGNITION
REPT.-1070 N64-19418 12-23

EFFECTIVENESS OF RECEPTORS IN RECOGNITION SYSTEMS BASED ON STATISTICAL CLASSIFICATION THEORY
N64-19419 12-23

SYSTEM THAT RECOGNIZES ALPHABETIC AND NUMERICAL SYMBOLS, DISCRIMINATES FROM BACKGROUND, AND CAN EXPAND ITS REPERTOIRE N64-19420 12-23

RECOGNITION OF CLOUD PATTERN FROM FILMS TAKEN BY TIROS SATELLITE
NASA-CR-53778 N64-19582 12-21

INFORMATION PROCESSOR FOR PATTERN RECOGNITION USING COMPUTER FLOW CHARTS
SRC-30-1-63-1 N64-22563 15-08

MULTIPLE PARAMETER OBJECT RECOGNITION - DATA PROCESSING N64-24688 17-20

SIGNAL DISCRIMINATOR FOR CLASSIFICATION OF MACHINE LEARNING PATTERNS
RADC-TDR-64-145 N64-25235 17-16

APPLICATION OF THRESHOLD LOGIC DEVICES TO PATTERN RECOGNITION
RADC-TDR-64-194 N64-25239 17-09

LEARNING MACHINE - PATTERN RECOGNITION MODEL
TN-1 N64-25296 17-16

ALGORITHM FOR RECOGNITION OF OBJECTS WITH MANY PARAMETERS N64-26380 18-20

SHAPE RECOGNITION BY DIGITAL COMPUTER
N64-26381 18-20

THEORY OF SHAPE IDENTIFICATION N64-26382 18-20

COMPUTER RECOGNITION OF HANDWRITTEN WORDS
N64-29385 21-20

MATHEMATICAL MODEL FOR VISUAL INTEGRATIVE PROCESS - PATTERN RECOGNITION
DI-82-0351 N64-29610 21-23

PATTERN RECOGNITION AND MACHINE LEARNING USING SEQUENTIAL DECISION APPROACH
TR-EE64-9 N64-32049 23-20

PAYLOAD
ENVIRONMENT SIMULATION OF PAYLOADS FOR SOUNDING ROCKETS AND UNMANNED SPACECRAFT
NASA-TN-D-1916 N64-12713 04-30

NOSE CAPS INCORPORATING APOLLO HEAT SHIELD MATERIAL FOR USE IN SCOUT PAYLOADS
RAD-TR-63-44 N64-15774 07-30

PAYLOAD DESIGN FOR APOLLO PROJECT LUNAR SURFACE VEHICLE N64-16175 08-10

PAYLOAD PLANNING AND DESIGN FOR STANDARD LAUNCH VEHICLE-1B
AFSWC-TDR-64-1 N64-17662 09-31

THOR DELTA LAUNCH VEHICLE PAYLOAD CAPABILITY FOR POLAR, CIRCULAR, AND ELLIPTICAL ORBITS
NASA-CR-56312 N64-24055 16-30

COMPUTATION OF OPTIMUM PAYLOADS & TRAJECTORIES AND FORMULATION OF GUIDANCE LAWS FOR SATELLITE LAUNCHERS
RAE-TM-SPACE-32 N64-27416 19-20

PAYLOAD CHEMICAL COMPOSITIONS AND CALCULATED RELEASE PRODUCTS - FIREFLY PROJECT
N64-31378 23-12

MATHEMATICAL MODEL AND COMPUTATION TECHNIQUES FOR PREDICTION OF SYSTEM EFFECTIVENESS OF ROCKET BOOSTED PAYLOADS
STL-9990-6586-KU-000 N64-33412 24-20

THERMAL DESIGN OF SATURN I /SA-5/ LAUNCH VEHICLE PAYLOAD
NASA-TM-X-53074 N64-34005 24-32

PEARLITE
ALLOYING TUNGSTEN AND MOLYBDENUM WITH PEARLITIC STEEL - HIGH TEMPERATURE ALLOY N64-17029 09-18

PEARLITE MATERIALS FOR THERMAL & ACOUSTIC INSULATION
FTD-TT-63-354/1&2&4 N64-22184 15-19

PECLET NUMBER
LIQUID-PHASE MASS TRANSFER AT LOW FLOW RATES IN PACKED COLUMN - AXIAL AND RADIAL PECLET NUMBER CALCULATIONS
IS-817 N64-28516 20-11

PELLET
MEASUREMENT OF DIAMETER OF ELECTRONIC WAKE OF HYPERSONIC PELLETS
TR-342 N64-25992 18-24

PELTIER EFFECT
CF SEEBECK EFFECT
CF THOMSON EFFECT
PELTIER REFRIGERATORS AS TRANSDUCERS FOR PSYCHOPHYSICAL STUDY OF TEMPERATURE SENSE
N64-11259 02-16

SEEBECK, PELTIER, AND THOMPSON EFFECTS - THERMOELECTRIC THEORY
NRL-5888 N64-20326 13-23

PENDULUM
EFFECT OF MANEUVERING OBJECT ON GYROSCOPIC PENDULUM EQUIPPED WITH CORRECTORS
N64-23541 16-15

DECAY RATES OF PASSIVE PENDULUM WOBBLE PRECESSION DAMPERS AND THEIR BOUNDS
AIAA PAPER-64-658 N64-27645 19-06

NONPERTURBABILITY OF VARIABLE-LENGTH SPHERICAL PENDULUM WITH MOTION OF FULCRUM IN CENTRAL GRAVITATIONAL FIELD - GYROSCOPIC PENDULUM
N64-29293 21-23

DETERMINATION OF ENERGY OF PULSED LASER BEAM BY TRANSFER OF PHOTON MOMENTUM TO BALLISTIC PENDULUM
NOLTR-63-82 N64-31247 22-25

PENDULUM APPARATUS
SYNCHRONOUS ROTATING PENDULUM ACCELEROMETER
N64-31481 23-15

PENETRATION
SA CRATERING
SA FRAGMENTATION
CF IMPACT
AEROSOL PENETRATION THROUGH 9-MIL FILTER PAPER WITH AND WITHOUT PINHOLES
HASL-139 N64-10312 01-11

BUILDUP FACTOR FOR GAMMA RAYS PENETRATING COMPARTMENTED STRUCTURES
USNRDL-TR-681 N64-12644 04-23

PENETRATION, PERFORATION, & SPALLING OF THIN TARGETS BY HYPERVELOCITY PROJECTILES
DRL-TR63-208 N64-13304 04-23

METEOROID PENETRATION OF SPACE VEHICLES
N64-14672 06-05

PENETRATION OF PLASMA FROM SOURCE WITH ELECTRON OSCILLATIONS TO EVACUATED REGION WITH MAGNETIC FIELD
FTD-TT-64-400/1&2&4 N64-21979 15-24

PENETRATING COSMIC RADIATION FOR DETERMINATION OF MEAN ROCK-DENSITY VALUES
JPRS-25104 N64-22797 16-28

NEUTRON PENETRATION IN WATER AND IRON-WATER SHIELDS CALCULATED USING P-3 MULTIGROUP PROGRAM
WAPD-TM-448 N64-24049 16-23

CLOSURES AND PENETRATIONS FOR PRESSURE VESSELS OF COMPOSITE CONSTRUCTION
DTMB-1732 N64-26066 18-11

APPLICATION OF PENETROMETERS TO STUDY OF PHYSICAL PROPERTIES OF LUNAR AND PLANETARY SURFACES
NASA-TN-D-2413 N64-27120 19-15

PROTON ENERGY DEGRADATION AND FLUX ATTENUATION AS FUNCTION OF PENETRATION DEPTH OF SHIELDING MATERIALS
NASA-TM-X-53063 N64-30510 22-23

PENETRATION BALLISTICS OF REINFORCED FIBERGLASS PLASTIC PLATES
AROD-3842-2 N64-30698 22-19

PENETRATION DEPTH OF METAL PARTICLES IN HYPERVELOCITY IMPACT
ATL-TR-64-64 N64-31120 22-33

BALLISTIC RESISTANCE OF THIN PLATES TO PENETRATION OF HIGH SPEED PROJECTILES
MR-1127 N64-31277 22-18

MONTE CARLO METHOD PENETRATION STUDY OF NEUTRON SCATTERING IN SHIELDING DUCTS
NARF-63-3T N64-31301 22-23

NONDESTRUCTIVE TESTING OF SPOT WELDS BY ULTRASONIC RADIATION PENETRATION
RSIC-263 N64-31822 23-17

DOUBLE-CAPACITOR COINCIDENCE-DISCHARGE SENSOR FOR MICROMETEOROID PENETRATION DETECTION
NASA-TM-1037 N64-34016 24-15

PENTANE
COMPARATIVE INVESTIGATION OF OPTIMUM CONDITION FOR ISOLATION OF CYCLOHEXANE AND METHYLCYCLOPENTANE PETROLEUM FRACTIONS
FTD-TT-63-563/1&2&4 N64-11164 02-07

PHOTOLYSIS AND PYROLYSIS OF 4-METHYL-4-METHOXY-2-PENTANONE
TDR-269/4240-201-1 N64-12581 04-07

ULTRAVIOLET ABSORPTION SPECTRUM OF METHYL-METHOXY-PENTANONE
TDR-269/4240-30/-2 N64-12662 04-19

MASS SPECTROMETRIC STUDY OF ION-MOLECULAR REACTION IN NEOPENTANE AT HIGH TEMPERATURES
NUM-5-P N64-27721 19-07

PENTOLITE
CF EXPLOSIVE
CALIBRATION OF SHOCK SENSITIVITY TEST WITH PENTOLITE SOLID PROPELLANT
NOLTR-63-19 N64-17375 09-26

TRANSITION FROM BURNING TO DETONATION IN PENTOLITE EXPLOSIVE - CONFINEMENT, PRESSURE, AND SHOCK SENSITIVITY
NOLTR-64-138 N64-33967 24-26

PEPTIDE
SA PROTEIN
SYNTHESIS OF ALPHA-L-ASPARTYL-L-SERYLGLYCINE - TRIPEPTIDE ESTER N64-10344 01-07

CRYSTAL STRUCTURE & LATTICE ENERGY OF POLYPEPTIDE AND POLYETHYLENE POLYMERS - HELICAL MACROMOLECULES
AD-425881 N64-14031 05-23

ULTRAVIOLET RADIATION ABSORPTION BY PEPTIDES FOR DETECTION OF EXTRATERRESTRIAL LIFE ON MARS
NASA-CR-55655 N64-16109 07-16

PERCEPTION
SA RECOGNITION
PHYSIOLOGIC MECHANISM FOR PERCEPTION OF KNOWLEDGE THROUGH SENSORY ORGANS IN MAN
JPRS-19762 N64-11352 02-16

BINAURAL BEAT PERCEPTION STUDY USING RELATIVE PROCEDURES
CARI-63-17 N64-14411 06-16

PERCEPTION OF POSTURAL VERTICAL AFTER PROLONGED BODILY TILT IN NORMALS & SUBJECTS WITH VESTIBULAR DEFECTS
NASA-CR-55614 N64-15355 07-14

ANALYSIS, SYNTHESIS, AND PERCEPTION OF SPEECH
AFCRL-63-174 N64-17843 10-08

PREDICTION OF TRANSFER EFFECTS IMPERCEPTUAL SET - STIMULUS AND RESPONSE
AMRL-TDR-63-98 N64-17848 10-20

DISARRANGED EYE-HAND COORDINATION
N64-22061 15-14

CONTRIBUTING FACTORS IN PERCEPTION OF OCULOGRAVIC ILLUSION N64-22434 15-14

INCENTIVE EFFECT ON INTERPERSONAL PERCEPTION - PSYCHOLOGY
AD-436402 N64-24234 16-14

HUMAN PERCEPTION OF ENVIRONMENTAL SPACE-TIME RELATIONSHIPS N64-25078 17-16

HUMAN BEHAVIOR - EVOLUTION OF PERCEPTUAL REFERENCE SYSTEMS
AD-600319 N64-27094 19-14

GIBSON THEORY ON VISUAL PERCEPTION AND HUMAN FACTORS - SENSORY CUES AND DYNAMIC DISTORTION IN HELICOPTER FLIGHT SIMULATOR
NAVTRADEVCEN-294-5 N64-28636 20-14

INFORMATION THEORY AND HUMAN THINKING, INFORMATION PERCEPTION, & ELECTROENCEPHALOGRAM ANALYSIS USING PROBABILITY THEORY
JPRS-26839 N64-33010 24-14

PERCEPTRON
NEURON TRANSMISSION IN HUMAN BRAIN AND CYBERNETIC DESIGN OF PERCEPTRON - DATA PROCESSING ELECTRONIC CEREBRAL MACHINE - BOOK REVIEW
JPRS-21805 N64-10380 01-01

PERCEPTRON - MACHINE FOR LEARNING SIMILAR IN OPERATION TO HUMAN BRAIN N64-10827 02-20

COMPUTER PROGRAMMING - SELF-ORGANIZATION, MEDICAL DIAGNOSTICS, CODE CONVERSION, CYBERNETICS, PERCEPTRONS, AND DEVELOPMENTS IN AUTOMATION
JPRS-17688 N64-11529 03-01

STRUCTURE AND USES OF SIMPLE AND SEQUENTIALLY FUNCTIONING PERCEPTRONS - COMPUTER PROGRAM
N64-11534 03-16

TWO-LAYER LEARNING MACHINE /PERCEPTRON/ FOR DETECTION & DETERMINATION OF FEATURES IN PATTERNS
RADC-TDR-63-467 N64-14310 06-20

EFFICIENCY OF TRAINING OF PERCEPTRON IN PATTERN RECOGNITION
RADC-TDR-64-33 N64-19063 11-20

APPLICATION OF PERCEPTRONS TO AUTOMATIC PHOTOGRAPH INTERPRETATION
CAL-VE-1446-G-3 N64-30694 22-15

PERCEPTRON APPLICATIONS IN NEURAL NET THEORY AND BIOSIMULATION
REPT.-4 N64-32860 24-20

PERCEPTUAL DEPRIVATION
S SENSORY DEPRIVATION

PERCHLORATE
CHEMICAL ANALYSIS OF AMMONIUM PERCHLORATE-POLYURETHANE PROPELLANT
CARDE-TR-426/63 N64-10991 02-07

EFFECT OF HELIUM SOUND FIELD ON BURNING RATE OF AMMONIUM PERCHLORATE-POLYURETHANE TYPE SOLID PROPELLANT
AIAA PAPER-64-108 N64-14853 06-26

THERMAL DECOMPOSITION AND BURNING OF AMMONIUM PERCHLORATE
FTD-TT-62-1902/1&2&4 N64-15423 07-26

TEMPERATURE DISTRIBUTION IN AMMONIUM PERCHLORATE WHEN BURNING
TIL/T-5475 N64-18141 10-26

TEMPERATURE PROFILES FOR BURNING AMMONIUM PERCHLORATE
FTD-TT-64-327/1&2&4 N64-21976 15-07

CATALYSIS OF REACTIONS IN SOLID PHASE - THERMAL DECOMPOSITION OF AMMONIUM PERCHLORATE IN PRESENCE OF FERRIC OXIDE
FTD-MT-63-244 N64-33026 24-07

PERCHLORYL FLUORIDE
CHEMISTRY OF OXIDIZERS AND OXIDATION MECHANISMS - REACTIONS OF PERCHLORYL FLUORIDE WITH ORGANIC COMPOUNDS
SAR-2 N64-33243 24-07

PERFLUOROALKANE
BIFUNCTIONAL DERIVATIVES OF PERFLUORODICARBONIC ACIDS
FTD-TT-63-463/1&2 N64-12086 03-07

UV-IRRADIATION PREPARATION AND PERFLUOROALKYLATION OF CARBO-, NITRO-, & SULFOFLUORIDES
AROD-007-18 N64-16963 09-07

VOLATILE TRANSITION METAL FLUORIDES AND PERFLUOROALKYL DERIVATIVES
AD-423390 N64-29172 21-07

SYNTHESIS OF DIMETHYL-BIS-PERFLUOROPROPYL-SILANE AND STUDY OF PYROLYTIC AND HYDROLYTIC STABILITY
N64-29173 21-07

PERFORATION
PENETRATION, PERFORATION, & SPALLING OF THIN TARGETS BY HYPERVELOCITY PROJECTILES
DRL-TR63-208 N64-13304 04-23

COMPARISON OF ION BEAM DRILLING AND ELECTRIC DISCHARGE PERFORATION OF METALS
N64-23506 16-18

PERFORMANCE
S FLIGHT PERFORMANCE
S OPERATOR PERFORMANCE
S SPACECRAFT PERFORMANCE

PERFORMANCE CHARACTERISTICS
STANDARD PERFORMANCE CRITERIA FOR AIRBORNE AUTOPILOT/COUPLER EQUIPMENT FOR USE WITH INSTRUMENT LANDING SYSTEMS
RTCA-31-63/DO-118 N64-10421 01-22

PERFORMANCE CHARACTERISTICS OF MERCURY-POTASSIUM FUEL CELLS WITH VARIOUS ELECTROLYTE COMBINATIONS
NASA-CR-53353 N64-18289 10-06

PERFORMANCE OF NIKE-CAJUN SOUNDING ROCKET FOR THREE CASES OF DRAG COEFFICIENT INPUTS
NASA-TM-X-51614 N64-19450 12-32

FLIP-FLOP DESIGN, PACKAGING, AND PERFORMANCE WITH VARIATIONS OF POWER SUPPLY FOR INTEGRATED MICROPOWER CIRCUITS
NASA-CR-53511 N64-19981 12-09

DESIGN AND PERFORMANCE CHARACTERISTICS OF BRAYTON CYCLE SOLAR COLLECTOR
NASA-CR-53504 N64-19999 12-06

SENSITIVITY OF SCANNING FABRY-PEROT INTERFEROMETER, SPECTROGRAPH DESIGN, AND ION RECOMBINATION STUDIES - AEROSPACE VEHICLE DETECTOR
AD-602812 N64-30186 21-15

PERFORMANCE OF HIGH SPECIFIC IMPULSE LIQUID-COOLED ARC JET ENGINE USING HYDROGEN AS PROPELLANT
AIAA PAPER-64-669 N64-33144 24-27

PERFORMANCE CHARACTERISTICS OF LIQUID METAL MAGNETOHYDRODYNAMIC GENERATOR
ANL-6870 N64-33236 24-24

PERFORMANCE ANALYSIS OF SATURN I /SA-6/ LAUNCH VEHICLE AND APOLLO SPACE SYSTEM
NASA-TM-X-55104 N64-33626 24-08

PERFORMANCE PREDICTION
METHOD OF CHARACTERISTICS INCORPORATING REACTION KINETICS FOR TWO-DIMENSIONAL AND AXISYMMETRIC

EXHAUST NOZZLE FLOW PERFORMANCE ESTIMATION
AIAA PAPER-64-97 N64-14259 06-02

PERFORMANCE PREDICTION FOR SUPERCONDUCTING COIL IN SOLENOIDS
LNF-63/67 N64-14448 06-23

TROPOSPHERIC COMMUNICATIONS SYSTEM PERFORMANCE PREDICTION
NBS-TN-103 N64-14796 06-08

MATHEMATICAL MODELS FOR PERFORMANCE PREDICTION OF SYSTEM EFFECTIVENESS
NSS-2360 N64-21460 14-20

PERFORMANCE PREDICTION AND DESIGN OF CRYOGENIC EQUIPMENT AND PROCESSES N64-26016 18-13

STRUCTURALLY SUPPORTED RADOME STUDIES - PREDICTION OF PLANE WAVE TRANSMISSION PERFORMANCE OF SPACE FRAME AND DEFINITION OF AERODYNAMIC LOAD LIMITS
IER-2 N64-28200 20-34

PREDICTION OF ELECTRONIC CONDUCTANCE AND OVERALL GAIN OF MULTICAVITY KLYSTRON
ESD-TDR-64-33 N64-28282 20-09

PERFORMANCE PREDICTION OF ELECTRICALLY PROPELLED LUNAR LOGISTICS VEHICLE
NASA-CR-58972 N64-32999 24-32

PERFORMANCE PREDICTION FOR LUNAR LOGISTIC VEHICLE WITH NUCLEAR-ELECTRIC PROPULSION
AIAA PAPER-64-497 N64-33630 24-32

PERIGEE
ORBITAL ELEMENTS FOR ACTIVE EXPERIMENT LIFETIME OF EXPLORER XVII SATELLITE TO DETERMINE ATMOSPHERIC DENSITY AT PERIGEE
NASA-RP-218 N64-25731 17-12

PERIODIC FUNCTION
ASYMPTOTIC FIXED POINT THEOREMS AND PERIODIC SYSTEMS OF FUNCTIONAL-DIFFERENTIAL EQUATIONS
TR-63-12 N64-15798 07-20

TYPES OF PERIODIC FUNCTION GENERATORS N64-16243 08-15

PERIODS AND AMPLITUDES OF PERIODIC SOLUTIONS TO EQUATION OF PERIODIC MOTION
MRC-437 N64-16619 08-20

PERIODIC FUNCTION SOLUTIONS OF ONE-DEGREE-OF-FREEDOM OSCILLATORS - DIFFERENTIAL EQUATIONS AND WAVE FUNCTIONS
ARDD-4105-6 N64-18881 11-20

PERIODIC FUNCTION OF FINITE-STATE SEQUENTIAL MACHINES AS RELATED TO NECKLACE PROBLEM SOLVING
NASA-CR-58245 N64-28967 20-20

KOLMOGOROFF THEORY - CONSERVATION OF CONDITIONALLY PERIODIC MOTIONS WITH SMALL CHANGE OF HAMILTONIAN FUNCTION
FTD-MT-64-174 N64-30543 22-23

STABILITY, PERIODICITY, AND NEAR PERIODICITY OF SOLUTIONS OF NONLINEAR DIFFERENTIAL EQUATIONS IN BANACH SPACES
MRC-496 N64-31965 23-20

PERIODIC SAMPLING FOR DETERMINATION OF PROBABILITY DISTRIBUTION FUNCTIONS N64-32921 24-08

PERIODIC ORBIT
PERIODIC ORBITS FOR MOON PROBES - STABILITY REQUIREMENT
NASA-RP-61 N64-10619 01-22

PERIODIC ORBITS IN RESTRICTED THREE-BODY PROBLEM OF PLANETOID PASSING CLOSE TO TWO GRAVITATING MASSES N64-13593 05-29

SERIES SOLUTION FOR SOME PERIODIC ORBITS IN RESTRICTED THREE BODY PROBLEM ACCORDING TO PERTURBATION METHOD
NASA-TN-D-2488 N64-29337 21-29

PERIODIC EARTH-MOON ORBITS IN RESTRICTED THREE BODY PROBLEM
NASA-TN-X-53108 N64-29729 21-29

PERIODIC PROCESS
PERIODIC STRUCTURES WITH UNIFORM BOUNDARIES EXCITED BY APERIODIC POINT OR LINE SOURCES
AFCRL-63-351 N64-12054 03-23

DISPERSION RELATIONS IN TIME-SPACE PERIODIC MEDIA - STABLE INTERACTIONS
PIBMRI-1122-63 N64-12196 03-23

PERIODIC TRAJECTORIES PASSING NEAR BOTH MASSES OF RESTRICTED THREE-BODY PROBLEM N64-12349 03-29

ALMOST-PERIODIC SOLUTIONS AND DIVERGENCE OF LINDSTEDT SERIES IN PLANE RESTRICTED THREE-BODY PROBLEM
MH-TRANS-412, PT. 1 N64-14753 06-23

ALMOST-PERIODIC SOLUTIONS & DIVERGENCE OF LINDSTEDT SERIES IN PLANE-RESTRICTED THREE-BODY PROBLEM
MH-TRANS-412, PT. 2 N64-14834 06-23

INFINITE CLASS OF PERIODIC SOLUTIONS FOR AN EQUATION OF NONLINEAR OSCILLATION THEORY
NASA-CR-53562 N64-18424 10-20

ELECTROMAGNETIC PROPAGATION IN PERIODIC MEDIUM WITH NONORTHOGONAL LATTICE STRUCTURE
AFCRL-64-437 N64-27100 19-25

ELECTROMAGNETIC FIELD FLUX DENSITY CALCULATIONS IN PERIODICALLY NONLINEAR SYSTEMS N64-27160 19-24

APPROXIMATE DETERMINATION OF PERIODIC NOTIONS IN SYSTEM OF AUTOMATIC PHASE CONTROL OF FREQUENCY N64-27164 19-09

PERIODICITY
ELECTROMAGNETIC PROPAGATION ON CYLINDRICAL STRUCTURES HAVING AZIMUTHAL PERIODICITY - CURVED CORRUGATED SURFACE & PERIODIC SLOTTED CONDUCTORS
TR-84 N64-17120 09-09

PERIODICITY ANALYSIS FOR BIOMETEOROLOGY RESEARCH N64-32350 23-16

PERISCOPE
CF OPTICAL INSTRUMENT
OPTIMUM CURVATURE BEAM FOR REFLECTED WAVE OF PERISCOPE IN MICROWAVE RELAY ANTENNAS
RM-3930-PR N64-12172 03-08

PERMALLOY
CF IRON ALLOY
CF NICKEL ALLOY
ANNOTATED BIBLIOGRAPHY - FABRICATION OF IRON, NICKEL, NICKEL-IRON OR PERMALLOY FILM BY THERMAL DECOMPOSITION OF CARBONYLS OR OTHER METHODS
SP-63-62 N64-21165 14-18

SPIN-WAVE INSTABILITIES IN PERMALLOY FILMS OF VARYING THICKNESS
AFCRL-64-101 N64-21449 14-23

PERMEABILITY
CF MECHANICAL PROPERTY
NERVE-REFLEX PROCESSES AND HOMEOSTATIC MECHANISMS IN PERMEABILITY CHANGES OF HISTOHEMATIC BARRIERS IN RADIATION SICKNESS
JPRS-21492 N64-10066 01-16

PERMEABILITY OF HEMATOENCEPHALIC BARRIER TO INORGANIC PHOSPHATE IN ACUTE RADIATION SICKNESS
JPRS-21628 N64-10119 01-16

ACTH INJECTION OF RATS IRRADIATED WITH X-RAYS, AND ORGAN PERMEABILITY CHANGES N64-15681 07-16

SILVER-CADMIUM BATTERY DEVELOPMENT - PROTOTYPE CASES, CELL CONSTRUCTION & PERFORMANCE AND WATER PERMEABILITY TESTS
NASA-CR-55793 N64-16008 07-06

SILVER-CADMIUM BATTERY DEVELOPMENT - FABRICATION

OF CELLS AND CELL CONTAINERS, MOISTURE PERMEABILITY STUDIES FOR CELL CASE MATERIALS
NASA-CR-55791 N64-16009 07-06

WATER PERMEABILITY OF FROZEN GROUND
FTD-TT-63-928/1&2 N64-21959 15-12

MATHEMATICAL EQUATIONS FOR DIFFUSION COEFFICIENT OF HYDROGEN PERMEATION THROUGH METAL STRIPS
QR-1 N64-22051 15-07

PERMEATION OF HYDROGEN THROUGH EMITTER SURFACE OF THERMIONIC CONVERTER
USAELRDL-2431 N64-22098 15-06

MOISTURE PERMEABILITY OF FOUR PAINT SYSTEMS - AEROSPACE STRUCTURAL TECHNOLOGY
A756 N64-22598 15-17

PERMEATION OF HYDROGEN THROUGH MATERIALS FOR SUNFLOWER POWER SYSTEM
NASA-CR-54004 N64-23206 16-18

MECHANISM OF ENCAPSULATION AND PERMEABILITY OF POLYMERS, SOLID PROPELLANTS, AND CHEMICAL COMPOUNDS
AD-601772 N64-24849 17-07

OXYGEN PERMEATION THROUGH VITREOUS SILICA AT HIGH TEMPERATURES
REPT.-63-RL-3515X N64-25837 18-19

PERMEABILITY OF ADHESIVES BY LIQUID AND GASEOUS HYDROGEN
NASA-TM-X-53066 N64-26591 18-19

CARBON CONTENT EFFECT ON MAGNETIC PERMEABILITY OF IRON-ALUMINUM ALLOYS AND HEAT TREATMENT EFFECTS ON MAGNETIC PROPERTIES OF ALLOYS
FTD-TT-63-2/1&2&4 N64-26723 18-18

MEASURING APPARATUS AND TECHNIQUES FOR DIELECTRIC PERMEABILITY AND PERMITTIVITY OF VARIOUS MATERIALS FROM ONE CYCLE TO 100 GIGACYCLES PER SECOND
TR-189 N64-27896 20-09

HYDRAULIC PROPERTIES OF POROUS MATERIAL - RELATIONSHIPS AMONG SATURATION, PRESSURE DIFFERENCE, AND PERMEABILITIES OF AIR AND LIQUID
HYDROL. PAPER-3 N64-28120 20-11

SPIRAL MOTION OF ELECTRICALLY CONDUCTIVE GAS BETWEEN COAXIAL PERMEABLE CYLINDERS IN PRESENCE OF MAGNETIC FIELD
NASA-TT-F-240 N64-29498 21-24

INITIAL PERMEABILITY OF LITHIUM AND NICKEL FERRITES
AD-422698 N64-33899 24-25

PEROXIDE
USES FOR HYDROGEN PEROXIDE IN SPACECRAFT POWER SUPPLIES N64-10148 01-26

PEROXIDE PRECIPITATION OF PROTACTINIUM AND URANIUM FROM THORIUM NITRATE-NITRIC ACID SOLUTIONS N64-15655 07-07

IRREVERSIBILITY OF OXYGEN CATHODE REDUCTION TO PEROXIDE IN FUEL CELL SYSTEMS - EFFECTS OF ELECTRODE AND ELECTROLYTE VARIATIONS
AD-429248 N64-15934 07-06

INTRODUCTION PROCESSES OF ORGANIC PEROXIDES INTO POLYTHENES TO FORM CROSS-LINKED POLYETHYLENES
COA-NOTE-MAT-2 N64-16922 09-07

INTENSITY OF HYDROXYL CHEMILUMINESCENCE FROM HYDROGEN PEROXIDE REACTION WITH SHOCK WAVES
NASA-RP-145 N64-17709 09-24

METAL JOINT - COMPATABILITY OF O-RING JOINTS IN HYDROGEN PEROXIDE SYSTEM AT HIGH TEMPERATURES
A752 N64-22594 15-19

MEASURING YIELDS OF HYDROGEN PEROXIDE PRODUCED IN PURE AERATED WATER BY PROTON BEAMS
LFEN.15 /ALPHA/ N64-30248 22-23

STARK EFFECTS IN NEAR INFRARED SPECTRA OF POLYATOMIC MOLECULES, HINDERED ROTATION IN HYDROGEN PEROXIDE, AND INFRARED ABSORPTION OF MATRIX ISOLATED AMMONIA
AFCRL-64-668 N64-32581 23-07

PERSHING MISSILE
TRANSPORTATION VIBRATION TESTING OF PERSHING MISSILE TACTICAL SHIPPING AND STORAGE CONTAINERS
RT-TR-63-9 N64-11770 03-04

TRANSPORTATION-VIBRATION TEST FOR SHIPPING AND STORAGE CONTAINERS OF PERSHING MISSILE SYSTEM
RT-TR-63-10 N64-12223 03-06

ANALYSIS & DESIGN OF STABILIZED PLATFORM ALIGNMENT LOOP FOR PERSHING GUIDANCE & CONTROL SYSTEM
RG-TR-63-26 N64-13808 05-22

MARRIAGE, ENGINEERING EVALUATION, & WEAPON SYSTEM TEST ON PERSHING BALLISTIC GUIDED MISSILE TRAINER XM-19
RT-TR-63-12 N64-13810 05-01

FAILURE OF PERSHING MISSILE SYSTEM TACTICAL SHIPPING AND STORAGE CONTAINER COMPONENTS DURING TRANSPORTATION VIBRATION TESTS
RT-TR-63-8 N64-14773 06-30

CRYOGENIC STRETCH FORMING OF FLIGHT-WEIGHT ROCKET MOTOR CASES SIMILAR TO PERSHING MISSILE
QR-8 N64-29714 21-17

PERSONALITY
CF HUMAN BEHAVIOR
PERSONALITY ORIENTATION AND SUCCESS IN FLIGHT TRAINING
REPT.-38 N64-30148 21-14

PERSONNEL
CF MANAGEMENT
CF MANPOWER
COMPARISON OF COMPLETE VERSUS SELECTIVE PROGRAMMED INSTRUCTION IN NONDESTRUCTIVE TESTING LABORATORY - PERSONNEL TRAINING
Y-1442 N64-10213 01-20

STANDARD HEALTH AND SAFETY REQUIREMENTS FOR USE BY NUCLEAR REACTOR TEST SITE PERSONNEL
IDO-12028 N64-10428 01-16

WORKING CONDITION EVALUATION & HEALTH STATUS OF PERSONNEL DEALING WITH ULTRAHIGH FREQUENCY ELECTRIC CURRENTS N64-11858 03-16

SPACECREW SELECTION AND TRAINING - LITERATURE SURVEY
SID-63-707 N64-14423 06-14

VISUAL AIDS FOR MANUFACTURING PERSONNEL IN PRODUCTION OF ATOMIC WEAPONS
SC-4959/M/ N64-14997 06-14

MANPOWER & PERSONNEL FOR ADVANCED WEAPON SYSTEMS - ESTIMATION OF REQUIREMENTS
AMRL-TDR-63-110 N64-18599 11-14

PREDICTION OF ADAPTABILITY OF BASIC AIRMEN REFERRED FOR MENTAL HYGIENE CLINIC EVALUATION
AD-436571 N64-18906 11-14

PROFICIENCY TEST FOR TECHNICIANS MAINTAINING TELEMETERING GROUND STATION EQUIPMENT - OPERATOR PERFORMANCE
ND-64-37 N64-21373 14-14

CURRENT PROBLEMS IN MANAGEMENT OF SCIENTIFIC PERSONNEL N64-21601 15-01

CAREER DEVELOPMENT OF FEDERAL SCIENTISTS AND ENGINEERS - RECOGNITION OF RESEARCH COMPETENCE N64-21602 15-01

MANAGEMENT OF SCIENTIFIC PERSONNEL - INCENTIVES AND EVALUATION N64-21603 15-01

MANAGEMENT OF SCIENTIFIC PERSONNEL - SENIOR SCIENTISTS N64-21604 15-01

MANAGEMENT OF SCIENTIFIC PERSONNEL - PSYCHOLOGICAL CHARACTERISTICS AND IDENTIFYING SUPERIORITY
N64-21605 15-01

HAZARD TO PERSONNEL WEARING TORN PROTECTIVE CLOTHING WHILE EXPOSED TO VAPOROUS ROCKET PROPELLANTS
AD-431540 N64-21673 15-16

MOTIVATION OF TECHNICAL PERSONNEL ON AEROSPACE PROJECTS
AIAA PAPER-64-407 N64-23327 16-01

DESIGN STUDY OF ONE-MAN VEHICLE FOR SHUTTLE TRANSPORT OF PERSONNEL AND MATERIALS BETWEEN ORBITING SPACECRAFT
RTD-TDR-63-4057 N64-25776 17-30

PERSONNEL & PROJECTS AT HARVARD ASTRONOMICAL OBSERVATORY N64-29232 21-10

GAMMA RADIATION EXPOSURES RECEIVED BY PERSONNEL AT NUCLEAR RESEARCH FACILITY
AECL-2050 N64-32308 23-16

PERSONNEL TRAINING PROGRAM DEVELOPMENT
HUMRRO-RB-11 N64-32681 23-14

LOSS OF CONSCIOUSNESS IN AVIATION PERSONNEL - PHYSIOLOGICAL SYNCOPE
REPT.-16 N64-33570 24-16

PERSONNEL SELECTION
VISUAL REQUIREMENTS FOR FLIGHT QUALIFICATION - PERSONNEL SELECTION
AD-442707 N64-29650 21-14

OPTIMAL PERSONNEL SELECTION BASED ON RELATIVE RANK AND RANDOM APPEARANCE
CU-47-64-NONR-266/59/MS N64-33293 24-20

PERSPECTIVE
S DEPTH PERCEPTION

PERT PROJECT
EXPERIMENTS IN PERT AUTOMATED TRAINING IN DECISION MAKING
ESD-TDR-63-606 N64-11762 03-01

PREPARATION OF PROGRAMMED INSTRUCTION FOR AUTOMATED TRAINING IN DECISION MAKING - PERT PROGRAM
ESD-TDR-63-608 N64-12319 03-14

PERTURBATION
SA ORBIT PERTURBATION
SA SATELLITE PERTURBATION
TRAPPED RADIATION AND IONOSPHERIC PERTURBATIONS DUE TO FISSION NEUTRON SOURCE - NUCLEAR TESTING
D1-82-0241 N64-10150 01-23

REACTIVITY AND FLUX PERTURBATION ANALYSIS OF SPECTRAL SHIFT CONTROL REACTORS - PERTURBED LATTICES OF URANIUM DIOXIDE
BAW-1274 N64-10151 01-23

OBLATE SPHEROIDAL METHOD FOR SATELLITE ORBITS - GRAVITATIONAL POTENTIAL & PERTURBING POTENTIAL
N64-10304 01-12

SECOND ORDER PERTURBATIONS IN GRAVITATIONAL FIELD CORRELATION WITH HEAT FLOW DISTRIBUTION ON EARTH SURFACE
NASA-CR-52496 N64-10601 01-13

SELF-ORGANIZING SYSTEMS AND PRINCIPLES OF THEIR DESIGN - OPEN CONTROL BY PERTURBATIONS AND FEEDBACK ACCORDING TO OUTPUT CHARACTERISTICS
N64-11530 03-09

CLASS OF LINEAR DIFFERENTIAL EQUATIONS WITH SLOWLY CHANGING PARAMETERS - PERTURBATION FREQUENCY BY ITERATION METHOD
RH-TRANS-460 N64-11577 03-20

SECULAR VARIATIONS OF GEOMAGNETIC FIELD IN ANTARCTICA N64-11664 03-12

GROUP FREQUENCY STANDARD QUARTZ CLOCK VARIATION AND PERTURBATION - RELATION OF EARTH ROTATIONAL IRREGULARITY AND CLOCK AGING
FTD-TT-63-542/1&2 N64-12342 03-12

INTEGRATION OF FIRST-ORDER PERTURBED WAVE EQUATION FOR EXCITED STATES OF ONE-DIMENSIONAL SYSTEMS
NASA-CR-52965 N64-14897 06-20

SINGLE-PERTURBATION SOLUTION OF CONTROL DESIGNS FOR HIGH ORDER SYSTEMS
NASA-CR-55567 N64-15544 07-20

MEASUREMENT METHOD FOR STUDYING SECULAR VARIATIONS OF GRAVITY N64-16457 08-12

POSITION-VELOCITY EPHEMERIDES OF VENUS AND EARTH-MOON SYSTEM USING PERTURBATION METHODS
NASA-CR-53617 N64-18419 10-05

PERTURBATION STUDY OF NONLINEAR PLASMA OSCILLATION
TN-313 N64-19104 11-24

GENERAL PERTURBATION EXPANSION FOR KLEIN-GORDON EQUATION WITH SMALL NONLINEAR TERM
NASA-CR-53502 N64-19986 12-20

ANALYTICAL METHOD OF ADJOINTS FOR DETERMINING SENSITIVITY OF LINEAR SYSTEMS FINAL STATE TO PERTURBATIONS OF SYSTEM IN TRANSIT
NASA-CR-56098 N64-20685 13-20

SECULAR AND NONSECULAR PERTURBATIONS FOR NONLINEAR COLD ELECTRON PLASMA EQUATIONS
NASA-TN-D-2305 N64-21269 14-24

PERTURBATION OF GEOMAGNETIC FIELD - SPHERICAL HARMONIC EXPANSION N64-24149 16-12

MODIFICATION OF HILL METHOD OF GENERAL PLANETARY PERTURBATIONS
NASA-TN-D-2375 N64-24823 17-29

LUNAR AND SOLAR PERTURBATIONS ON ARTIFICIAL SATELLITES N64-25107 17-32

PERTURBATION ANALYSIS OF STABILITY AND RESPONSE OF PLANE FLAME FRONTS N64-26005 18-26

PERTURBATION METHOD FOR EFFECT OF SMALL MISMATCHES ON BACKWARD WAVE OSCILLATOR
FTD-TT-64-293/1&2&4 N64-26095 18-09

PERTURBATION OF ABSORPTION SPECTRA OF CRYSTALLINE ARGON AND KRYPTON IN VACUUM ULTRAVIOLET BY INTERSTITIAL ATOMS OF XENON
QTSR-1 N64-27196 19-23

NEW PERTURBATION METHOD FOR SOLVING PROBLEMS IN CLASSICAL AND QUANTUM MECHANICS
AD-601184 N64-27703 19-20

PERTURBATION OF SPECTRAL ABSORPTION LINES IN VACUUM ULTRAVIOLET BY SOLID MATRICES
AD-601539 N64-27775 19-07

VORTICITY TRANSPORT EQUATIONS RELATIVE TO INITIAL AND BOUNDARY CONDITION PERTURBATIONS
N64-27939 20-21

APPLICATION OF HALPHEN METHOD FOR SECULAR PETURBATIONS TO DETERMINATION OF LONG RANGE EFFECTS IN MOTIONS OF CELESTIAL BODIES
NASA-TR-R-194 N64-28340 20-05

EFFECTS OF SURFACE PERTURBATIONS ON PRESSURE DISTRIBUTIONS ABOUT BLUNT TWO-DIMENSIONAL BODIES AT HYPERSONIC SPEEDS
FDL-TDR-64-17 N64-28549 20-02

NONPERTURBABILITY OF VARIABLE-LENGTH SPHERICAL PENDULUM WITH MOTION OF FULCRUM IN CENTRAL GRAVITATIONAL FIELD - GYROSCOPIC PENDULUM
N64-29293 21-23

SERIES SOLUTION FOR SOME PERIODIC ORBITS IN RESTRICTED THREE BODY PROBLEM ACCORDING TO PERTURBATION METHOD
NASA-TN-D-2488 N64-29337 21-29

STATIC AND DYNAMIC PERTURBATIONS EFFECT ON SHARP OPTICAL TRANSITIONS IN CRYSTALS
ML-1190 N64-29873 21-25

BEHAVIOR OF LAMINAR AND UNSTABLY STRATIFIED BOUNDARY LAYERS TOWARDS THREE DIMENSIONAL PERTURBATIONS
AFOSR-64-1280 N64-30054 21-11

GEOMAGNETIC FIELD AND SECULAR PERTURBATION
NASA-TT-F-8700 N64-30079 21-12

SECULAR PERTURBATION OF GRAVITY FIELD BY CONVECTION CURRENTS IN EARTH OUTER CORE
N64-30467 22-12

SECOND-ORDER SOLUTION OF ARTIFICIAL EARTH SATELLITE THEORY WITHOUT AIR DRAG
NASA-TN-D-1752 N64-30610 22-29

DIFFERENTIAL EQUATION AS OPTIMUM FORMULATION OF SINGULAR PERTURBATION PROBLEM
MRC-502 N64-30978 22-20

PERTURBATION SCHEME BASED ON LIGHTHILL-FREEMAN NONEQUILIBRIUM DISSOCIATION-RECOMBINATION GAS MODEL FOR STABILITY OF FLOW SYSTEM ABOUT EQUILIBRIUM POINT
RE-167 N64-31263 22-11

HYPERSONIC FLOW PERTURBATIONS AS SOLUTION TO FLOW PROBLEMS AROUND SLENDER BLUNT BODIES
FTD-MT-64-59 N64-31772 23-02

WAVEGUIDE MODEL OF IONOSPHERIC PERTURBATION EFFECTS ON VERY LOW FREQUENCY ELECTROMAGNETIC PROPAGATION
AD-420379 N64-33428 24-08

IONOSPHERIC WALL PERTURBATIONS AND PROPAGATION IN MULTIMODE WAVEGUIDES
QR-10 N64-33490 24-12

APPLICATION OF VON ZEIPEL METHOD TO SATELLITE ORBITING UNDER GRAVITATIONAL FIELD INFLUENCE AND PERTURBATIONS DUE TO EARTH OBLATENESS
NASA-TM-X-55095 N64-33625 24-23

PERTURBATION THEORY
CF CELESTIAL MECHANICS
PERTURBATION THEORY FOR PREDICTING STABILITY AND MOTION OF PLANETS IN FUTURE
MH-TRANS-414 N64-11567 03-05

EXTENSION OF SPECIAL RELATIVITY TO TRANSFORMATIONS FOR VARIABLE MASS SYSTEMS, & RELATIVISTIC PERTURBATION THEORY FOR SATELLITE ORBITS
NASA-TR-R-188 N64-12155 03-23

TRACE FORMULAS FOR STURM-LIOUVILLE OPERATOR - PERTURBATION THEORY
MRC-417 N64-12333 03-20

COMPARISON OF REGULAR PERTURBATION THEORY AND FEENBERG FORMULATION WITH ACCOUNT OF CONVERGENCE RADIUS
DI-82-0316 N64-13152 04-23

LIFTING LINE THEORY AS SINGULAR PERTURBATION PROBLEM
SUDAER-165 N64-14035 05-20

ERROR ESTIMATION OF SYSTEM DYNAMIC STABILITY IN QUANTUM STATISTICAL MECHANICS - PERTURBATION THEORY
N64-14223 06-23

PERTURBATION THEORY FOR DISCRETE AND CONTINUOUS SPECTRA
AEET/CD/19 N64-15721 07-23

PERTURBATION THEORY IN STUDY OF TWO ELECTRON SYSTEM EXCITED STATES - QUANTUM MECHANICS
N64-17010 09-23

OPTIMAL GUIDANCE APPROXIMATIONS USING PERTURBATION THEORY
N64-20953 14-22

PERTURBATION METHOD FOR DIFFRACTION PROBLEM OF ELECTROMAGNETIC WAVES BY ARBITRARILY SHAPED DIELECTRIC OBSTACLE
USCEC-82-216 N64-22385 15-23

VON ZEIPEL METHOD AND CANONICAL VARIABLES USED IN SOLUTION OF DIFFERENTIAL EQUATIONS RELATED TO PERTURBATION THEORY
RM-4074-PR N64-22617 15-23

PERTURBATION THEORY IN ATOMIC AND MOLECULAR QUANTUM MECHANICS - BERYLLIUM ATOM SHIELDING FACTORS AND POLARIZABILITIES
NASA-CR-56513 N64-24036 16-23

MODEL N-FERMION SYSTEM USED TO STUDY RANGE OF VALIDITY OF DIAGRAMATIC MANY-BODY PERTURBATION THEORY AND SUMMATIONS OF HIGHER ORDER GRAPH
TR-334 N64-24866 17-20

APPLICATION OF PERTURBATION THEORY TO LUNAR LANDING AND LONG RANGE REENTRY GUIDANCE
NASA-RP-209 N64-24963 17-22

APPLICABILITY OF PERTURBATION THEORY TO NONDEGENERATE PLASMAS
NUP-64-7 N64-30068 21-24

DIFFERENTIAL EQUATIONS OF BRILLOUIN-WIGNER PERTURBATION THEORY N64-30469 22-11

ANALYTICAL THEORY OF HYPERBOLIC AND ELLIPTIC MOTION ELEMENT PERTURBATIONS IN CELESTIAL MECHANICS
NASA-TT-F-8943 N64-30837 22-05

PERTURBATION THEORY OF NEAR-EARTH SATELLITES
AFCRL-64-566/III/ N64-30945 22-29

POISSON AND DIFFERENTIAL EQUATIONS FOR HIGH ORDER PERTURBATION THEORY USING RECTANGULAR COORDINATES
JPL-TR-32-470 N64-31554 23-20

TREATMENT AND SOLUTION OF RESTRICTED THREE-BODY PROBLEM AND SECOND-ORDER LINEAR DIFFERENTIAL EQUATION - PERTURBATION THEORY
SUDAER-193 N64-31998 23-23

PERTURBATION THEORY AND FEYNMAN DIAGRAMS APPLIED TO QUANTUM FIELD THEORY
ARL-64-169 N64-32450 23-23

PERTURBATION METHOD OF CALCULATING EXCESS FREE ENERGY OF MIXING MOLTEN RECIPROCAL SALT SOLUTION
NAA-SR-8880 N64-33434 24-07

ANALOG VERIFICATION OF SMALL PERTURBATIONS LINEAR THEORY, PROFILE OF HYDRODYNAMIC CHARACTERISTICS, AND TANDEM PROBLEM FOR ANALOG STUDY OF HYDROFOILS NEAR FREE SURFACE
AD-602430 N64-33501 24-11

PETROGRAPHY
S GEOLOGY
S GEOPHYSICS
S PETROLOGY
S ROCK

PETROLEUM
SA GASOLINE
SA KEROSENE
CF FUEL
CF LUBRICANT
CF OIL
ANTICORROSION COATINGS FOR PETROLEUM STORAGE TANKS
JPRS-17742 N64-10716 02-26

FUEL PRODUCTION PROBLEMS - MINERAL, NATURAL GAS, AND PETROLEUM FUELS
JPRS-17782 N64-10722 02-26

NONSULFUROUS FUEL FROM UNSATURATED SULFUROUS DISTILLATES BY THERMAL TREATMENT OF PETROLEUM RESIDUES WITH HYDROGEN FLUORIDE
FTD-TT-63-782/1&2 N64-11152 02-07

COMPARATIVE INVESTIGATION OF OPTIMUM CONDITION FOR ISOLATION OF CYCLOHEXANE AND METHYLCYCLOPENTANE PETROLEUM FRACTIONS
FTD-TT-63-563/1&2&4 N64-11164 02-07

ROLE OF BACTERIA IN CONVERSION OF PETROLEUM CARBON AND ASPHALT COMPONENTS UNDER ANAEROBIC CONDITIONS
FTD-TT-62-1449/1&2&4 N64-16396 08-16

HIGH POWER PETROLEUM FUEL CELL SYSTEMS FOR MILITARY GROUND STATION APPLICATIONS
N64-17400 09-06

PETROLEUM BASED ORGANIC COOLANTS FOR NUCLEAR REACTORS
EUR-496.F N64-20872 14-19

PETROLEUM - OIL-SHALE TECHNOLOGY
BM-IC-8216 N64-22105 15-12

PETROLEUM ADDITIVES - EFFECTIVE MEANS TO INCREASE POWER AND REDUCE WEAR IN INTERNAL COMBUSTION ENGINES
FTD-TT-62-1931/1&2&4 N64-22642 15-07

PETROLEUM EXTRACTS FOR THERMAL CRACKING OR PYROLYSIS, AND CARBON BLACK PRODUCTION
FTD-TT-63-1152/1 N64-22664 15-07

KINETICS OF GRAPHITIZATION OF PETROLEUM COKE
JPL-TR-32-570 N64-25683 17-19

LONGITUDINAL ELASTIC WAVE VELOCITY IN POROUS MEDIA WITH LIQUID SATURATION - CRUDE OIL EXPLORATION
FTD-TT-64-210/1&2 N64-30877 22-12

LUMINESCENCE OF ROCKS ON MOON DUE TO PETROLEUM BITUMENS
T-380-R N64-33489 24-29

PETROLOGY
CF MINERALOGY
ALTERATIONS IN PETROLOGICAL COMPOSITION AND ARGON EMPLACEMENT BY ARTIFICIAL SHOCK OF BJURBOLE CHONDRITE IN ARGON ATMOSPHERE
NASA-CR-55365 N64-14269 06-05

PFAFF EQUATION
APPLICATION OF PFAFF EQUATION TO THEORY OF VARIATION OF ASTRONOMICAL PARAMETERS
NASA-TN-D-2301 N64-19168 11-05

PH FACTOR
DEVELOPMENT OF LIFE DETECTOR FOR PLANETARY SOILS - DETECTION BY CHANGES IN LIGHT TRANSMISSION AND IN PH FACTOR OF SELECTED MEDIUM
NASA-CR-56528 N64-22789 16-16

RADIO TELEMETRY STUDY OF PH OF DIGESTIVE SYSTEM
NASA-TT-F-9026 N64-27367 19-16

ELECTRICAL CHARGE OF DROPS AS FUNCTION OF PH OR ELECTRICAL CONDUCTIVITY DISPROVED
N64-31763 23-21

PH VALUES, BICARBONATE CONTENTS AND CARBONIC ACID PRESSURE OF HUMAN BLOOD IN SHORT TERM OXYGEN DEFICIENCY
DVL-225 N64-32326 23-16

PHARMACOLOGY
SA DRUG
SA TOXICOLOGY
PSYCHOPHARMACOLOGICAL COMPOUNDS - CLASSIFICATION, SYNONYMS, OFFICIAL NAMES, CHEMICAL STRUCTURE, USE, DOSAGE, AND NOTES ON EFFECT
JPRS-22042 N64-11269 02-16

ACTION MECHANISM OF MEDICINAL SUBSTANCES ON HUMAN CELLS AND TISSUES AND TREATMENT OF ENSUING ILLNESS
JPRS-22292 N64-11781 03-16

RADIOBIOLOGY, BIOCHEMISTRY, PHARMACOLOGY, TOXICOLOGY, & RADIATION HAZARDS
UCLA-520 N64-15341 07-16

DRUGS FOR DISEASES OF CENTRAL NERVOUS SYSTEM
JPRS-23254 N64-15382 07-16

PHARMACOLOGICAL BLOCKING EFFECT OF METHYL DIAZA-BICYCLONONANE DERIVATIVES ON NEUROMUSCULAR ACTIVITY
N64-15384 07-16

BIOCHEMICAL AND PHARMACOLOGICAL STUDIES OF DIMETHYLHYDRAZINE
AMRL-TDR-63-127 N64-16584 08-16

PHARMACOLOGICAL PREPARATIONS HAVING PSYCHOLOGICAL EFFECTS
JPRS-24475 N64-19491 12-16

RADIATION SICKNESS - PHARMACOLOGICAL PROTECTION
JPRS-24817 N64-21729 15-16

PHARMACOLOGY & TOXICOLOGY OF DRUGS IN CLOSED ECOLOGICAL SYSTEMS
N64-24617 17-16

DRUG EFFECT ON RAT LEVER-PRESSING RESPONSE
NASA-RP-262 N64-25975 18-16

RELATION BETWEEN CHEMICAL STRUCTURE OF SUBSTANCE AND BIOLOGICAL EFFECT
FTD-TT-64-581/1&4 N64-26736 18-16

PHARMACOLOGICAL CHARACTERISTICS OF SEVERAL PREPARATIONS - ANIMAL STUDY
JPRS-26645 N64-31341 23-16

ANIMAL STUDY FOR PHARMACOLOGICAL EFFECTS ON BRAIN STEM FROM ADMINISTRATION OF ARECOLINE HYDROBROMIDE AND PHENAMINE
N64-31342 23-16

PHARMACOLOGICAL EFFECTS ON CATS OF TETRAMETHYL-CYSTAMINE
N64-31346 23-16

PHASE
SA GAS PHASE
SA RETURN-TO-EARTH PHASE
SA SINGLE-PHASE FLOW
SA TWO-PHASE FLOW
PHASE ANALYSIS OF NONFERROUS ALLOYS
JPRS-18853 N64-10580 01-18

AMPLITUDE & PHASE OF RADIO WAVES PROPAGATING ALONG FLAT INHOMOGENEOUS EARTH SURFACE
N64-12728 04-08

MICROWAVE PHASE MEASUREMENT TECHNIQUES
RE-TR-63-35 N64-14651 06-09

CONDITIONS OF FORMATION OF LANTHANUM TELLURIDES & PHASE COMPOSITIONS
FTD-MT-63-249 N64-18692 11-25

MEASUREMENT OF PHASE AND AMPLITUDE OF RADAR BACKSCATTER
N64-24292 17-08

PHASE MEASUREMENT IN PULSED RADAR CROSS SECTION SYSTEM AND USE FOR MEASUREMENT OF SCATTERING MATRIX AND BACKGROUND SUBTRACTION
N64-24304 17-08

CRYSTALLIZATION OF GLASS - CONTROLLED PHASE SEPARATION DUE TO METASTABLE LIQUID IMMISCIBILITY IN SIMPLE SILICATE SYSTEMS
TR-2 N64-25900 18-19

PHASE RELATIONSHIPS IN PARAMETRIC AMPLIFIERS
USAELRDL-TR-2451 N64-26175 18-09

PHASE PLANE THEORY OF TRANSISTOR BISTABLE CIRCUITS
REPT.-137 N64-26851 18-09

PHASE EQUILIBRIUM DIAGRAM FOR URANIUM CARBIDE-THORIUM CARBIDE SYSTEMS
ORNL-3668 N64-29415 21-24

CONTINUOUS WAVE OPTICAL RADAR FOR EARLY LAUNCH PHASE TRAJECTORY MEASUREMENT
REPT.-75348 N64-29823 21-15

PHASES OF TANTALUM CARBIDE SYSTEMS
NASA-TT-F-9068 N64-31335 22-18

LORENTZ AND GAUSS BAND CONTOURS FOR INTERMOLECULAR SPECTROSCOPY IN CONDENSED PHASES
ASD-TDR-63-314, PT. I ED. II N64-32133 23-07

EFFECT OF TURBULENT INNER SCALE ON PHASE STRUCTURE FUNCTION
TM-120 N64-32761 24-08

HIGH-ORDER TERMS IN NEAR AND FAR FIELD SERIES FOR PHASE AND LOG AMPLITUDE CORRELATION
TM-125 N64-32762 24-08

EVALUATION OF PHASE AND AMPLITUDE CORRELATION FUNCTIONS FOR ATMOSPHERICALLY DISTORTED WAVE FRONT
TM-127 N64-32763 24-08

STATISTICAL MECHANICS AND PHASE TRANSITIONS OF HEISENBERG ANTIFERROMAGNET
TR-15 N64-32850 24-25

PHASE ANGLE
RADIO DIRECTION FINDER PRINCIPLES - PHASE ANGLE MEASUREMENT, SUM-AND-DIFFERENCE AMPLITUDE-PHASE MEASUREMENT, AND DIRECTIONAL ANTENNA DISH METHODS
N64-24638 17-09

PHASE CHANGE
PHASE DISTORTION OF REFLECTED SINE WAVE ACOUSTIC PULSES IN FLUID MEDIA AT GRAZING ANGLES
RN-152 N64-10071 01-23

PHASE CHANGES IN ICE SOLUTIONS - INVESTIGATION USING ELECTRICAL RESISTIVITY MEASUREMENTS
EER-FW-173 N64-11754 03-23

RECORDINGS OF DIURNAL AND PHASE CHANGES IN IONOSPHERE CURRENTS
RADC-TDR-63-389 N64-12307 03-08

PHASE CHANGE BETWEEN PHASE AND DIURNAL VARIATION OF VERY LOW FREQUENCY SIGNALS
NBS-TN-206-1 N64-13941 05-08

CONVERSION OF THREE-PHASE POWER TO SINGLE-PHASE POWER - ELECTRICITY N64-17433 09-06

CELL MODEL IN TERMS OF PARTITION FUNCTIONS OF DIFFUSE PHASE TRANSITION
ONR-TR-RLT-73 N64-18463 10-25

STATISTICAL PREDICTION OF DIURNAL PHASE CHANGES RESULTING FROM CHANGE IN ALTITUDE OF IONOSPHERIC REFLECTING LAYER N64-19693 12-12

PHASE CHANGES IN VERY LOW FREQUENCY RADIO PROPAGATION DURING AND AFTER NUCLEAR EXPLOSION
N64-19697 12-12

PHASE AND AMPLITUDE WAVE INTERACTION OF SIGNALS REFLECTED FROM LOWER IONOSPHERE
AFCRL-64-32 N64-20296 13-12

PHASE MODULATION MEASURING OR RAPID PHASE CHANGES OF MICROWAVE SIGNAL
MATT-273 N64-31020 22-15

PHASE COHERENCE
ERROR PROBABILITIES FOR NONORTHOGONAL M-ARY SIGNALS UNDER SYNCHRONIZED PHASE-COHERENT RECEPTION
TR-63-7-RF N64-32080 23-08

PHASE CONTROL
LINE SOURCE ANTENNA ARRAYS FOR CONTROL OF PATTERN, DISPERSION, AND PHASE OF BEAMS
AFCRL-63-182 N64-15519 07-09

PHASE MOTIONS OF IONS IN ISOCHRONOUS CYCLOTRONS AND PHASE CONTROL BY MODULATION OF GAP VOLTAGE
ORNL-3444 N64-16003 07-23

APPROXIMATE DETERMINATION OF PERIODIC MOTIONS IN SYSTEM OF AUTOMATIC PHASE CONTROL OF FREQUENCY
N64-27164 19-09

OPTIMUM CONTROL FACTORS FOR SINGLE-LOOP LINEAR CONTROL CIRCUIT WITH CONCENTRATED STRUCTURAL ELEMENTS AND MINIMUM PHASES N64-29323 21-09

PHASE DEVIATION
TROPOSPHERIC SIGNAL PROPAGATION TESTS AT S-BAND TO OBTAIN MEAN SQUARE PHASE FLUCTUATIONS AT 2250-MC
CAL-UB-1725-1 N64-12301 03-12

PHASE DEVIATION IN VERY LOW FREQUENCY RADIO SIGNALS AFTER IONOSPHERIC REFLECTION
N64-19695 12-08

NORMAL PHASE VARIATIONS OF VERY LOW FREQUENCY SIGNALS OVER LONG PATHS
NBS-TN-206-2 N64-21212 14-08

PHASE DEVIATIONS IN RADIO PROPAGATION
NBS-TN-206-3 N64-23910 16-12

RADIO FREQUENCY PHASE DEVIATION STABILITY REQUIREMENTS FOR BALANCED CONTINUOUS WAVE RADAR REFLECTOMETERS N64-24305 17-08

EXAMINATION OF HIGH FREQUENCY PHASE FLUCTUATIONS INDUCED BY ATMOSPHERE ALONG SATELLITE-TO-GROUND PROPAGATION PATH
REPT.-4563-67-T N64-25745 17-29

PHASE DIAGRAM
PHASE DIAGRAMS OF BORON-SILICON ALLOY SYSTEMS
AID-T-63-119 N64-11466 03-18

THERMAL, X-RAY, AND MICROSCOPIC ANALYSIS OF PHASE DIAGRAM FOR TERNARY ALLOYS OF IRON, ALUMINUM, AND URANIUM
MCW-TR-1 N64-12907 04-18

PHASE DIAGRAM AND LATTICE STRUCTURE OF URANIUM - THORIUM ALLOYS
AEC-TR-5834 N64-13908 05-18

PRESSURE COMPOSITION MEASUREMENTS AND PHASE DIAGRAM FOR BERYLLIUM-BORON-OXYGEN & ALUMINUM-BORON-OXYGEN SYSTEMS
QR-5 N64-14171 06-19

COMPOUNDS IN BINARY PHASE DIAGRAMS OF MONOVALENT CHLORIDE WITH MULTIVALENT CHLORIDES
ANL-6803 N64-15224 07-19

PHASE DIAGRAMS FOR ELECTROLYTES, OXYGEN IN FUSED FLUORIDE ELECTROLYTE, ANALYSIS OF URANIUM ALLOYS, AND METHOD FOR ANALYZING HIGH PURITY MAGNESIUM
MCW-1482 N64-15561 07-19

SOLUBILITY OF IRON & ALUMINUM IN URANIUM - URANIUM CORNER OF URANIUM-ALUMINUM-IRON PHASE DIAGRAM
N64-19442 12-18

EQUILIBRIUM PHASE DIAGRAM FOR YTTRIUM-OXYGEN SYSTEM
IS-812 N64-27341 19-18

PHASE DIAGRAM OF URANIUM-PLUTONIUM AT TEMPERATURES BELOW 635-DEG C WITH LESS THAN 50 ATOMIC PERCENT CARBON
ANL-6435 N64-28110 20-18

PHASE ERROR
PHASE ERRORS IN RADAR OR SONAR SYSTEM AND EFFECTS ON CENTER AND RADIUS OF GYRATION OF AMBIGUITY FUNCTION
REPT. 2900-347-R N64-13096 04-20

PHASE ERRORS OF HAYSTACK ANTENNA RADIATION PATTERNS DUE TO SURFACE DEVIATIONS
AD-418470 N64-14091 05-08

PHASE LOCK
PHASE-LOCK LOOP - FALSE-LOCK PROBLEM
TDR-269/4250-45/-1 N64-13776 05-09

DETECTION AND MEASUREMENT OF CYCLE SKIPPING AND PHASE OFFSETS IN FREQUENCY MULTIPLYING PHASE-LOCK FILTERS N64-16168 08-09

NARROW BAND PHASE-LOCK TRACKING FILTER
NASA-TM-X-55020 N64-27254 19-01

NETWORK SYNTHESIS, PHASE LOCKED OSCILLATORS, AND COMPUTER PROGRAMS FOR INTELLIGENCE EFFORT
EDL-M636 N64-32550 23-09

PHASE MODULATION
SA FREQUENCY MODULATION
RELATIONSHIP OF PROBABILITY OF BIT ERROR IN PHASE MODULATION SYSTEM TO RECEIVED SIGNAL POWER, NOISE

INTENSITY, AND BIT RATE OF SOURCE
NASA-CR-56621 N64-24034 16-20

NEON-HYDROGEN LASER AND PHASE RELATIONSHIP BETWEEN OPTICAL PUMP AND PULSED LASER OUTPUT
AD-603405 N64-30907 22-24

PHASE MODULATION MEASURING OR RAPID PHASE CHANGES OF MICROWAVE SIGNAL
MATT-273 N64-31020 22-15

COHERENT ELECTROMAGNETIC ENERGY GENERATION AND AMPLIFICATION IN EXTREMELY HIGH FREQUENCY BAND AND ANALYSIS OF AMPLITUDE & PHASE MODULATED TRAVELING WAVE AMPLIFIERS
REPT.-05772 N64-32282 23-23

PHASE SHIFT
IONOSPHERIC PARAMATERS FROM PHASE DIFFERENCE AND ROTATION OF POLARIZATION PLANE OF COHERENT SIGNALS FROM COSMOS I & COSMOS II SATELLITES
N64-10277 01-12

IONOSPHERE ELECTRON DENSITY FROM PHASE SHIFT AND ROTATION OF PLANE OF POLARIZATION OF COHERENT SIGNALS TRANSMITTED FROM SATELLITES
N64-10278 01-12

PHASE SHIFT VALUES FROM POLARIZATION AND ELASTIC SCATTERING DATA ANALYSIS N64-10303 01-23

FERRITE SWITCH CONSISTING OF POWER DIVIDER, TWO FERRITE PHASE SHIFTERS, AND SLOT BRIDGE
N64-12731 04-09

ABSORPTION COEFFICIENTS FOR PHASE SHIFT ANALYSIS OF PION SCATTERING IN PION-PION ENERGY LEVEL
RIFP-30 N64-15772 07-23

HIGH ENERGY PHASE SHIFT ANALYSIS OF PION-PION INTERACTION AT 970 MEV
RIFP-31 N64-15773 07-23

PHASE SHIFT DEVICE AND INTEGRATION OF TRANSISTOR AMPLIFIER INTO SLOTTED AND SPIRAL ANTENNAS
REPT.-1566-7 N64-16071 07-09

CONTINUOUS ROTATION EXPOSURE EFFECTS ON NYSTAGMUS PHASE SHIFT
NASA-CR-53618 N64-18421 10-16

MICROWAVE FERRITE PHASE-SHIFTER
TR-1189 N64-19929 12-09

DESIGN CURVE FOR METAL PLATE PHASE SHIFTERS IN CYLINDRICAL WAVEGUIDE
WRE-TN-PAD-78 N64-20010 13-34

PHASE CONSTANT MEASUREMENTS FOR ROCK STRATA RADIO PROPAGATION
AFCRL-64-64 N64-20346 13-12

FABRY-PEROT INTERFEROMETER WITH ELECTRO-OPTICAL CRYSTALS AS PHASE SHIFTERS AND USED AS WIDEBAND COHERENT LIGHT MODULATOR
ASD-TDR-63-604 N64-20732 13-25

PHASE SHIFT ANALYSIS OF PROTON-PROTON REACTION AT 970 MEV
RFP-34 N64-21040 14-23

PHASE SHIFT AMPLIFICATION
REPT.-05407 N64-21871 15-08

EXPANSION OF PHASE SHIFTS IN POWERS OF SQUARE OF PLANCK CONSTANT
WIS-TCI-9, SER. 2 N64-23021 16-23

DETERMINATION OF PERTURBATION POTENTIAL FROM SCATTERING PHASE SHIFT & BOUND STATE ENERGY LEVELS
NASA-CR-56406 N64-24115 16-23

RANGE MEASUREMENT WITH RADIO WAVES USING PHASE SHIFT, FREQUENCY MODULATION, AND PULSED RADIATION METHODS N64-24637 17-09

QUANTUM CORRECTION TO PHASE SHIFT IN COLLISION OF PARTICLES WITH SPHERICALLY SYMMETRIC POTENTIAL
WIS-TCI-34A N64-27418 19-23

DESIGN AND TESTING OF PROTOTYPE COMPONENTS OF PHASE SHIFT MODULES IN ANTENNA ARRAY
FR-64-14-82 N64-27688 19-08

WAVE FUNCTION & PHASE SHIFT IN RADIAL SCHROEDINGER EQUATION FOR HIGHLY SINGULAR REPULSIVE POTENTIALS
UR-875-51 N64-28273 20-23

ENERGY DEPENDENT PION-NUCLEON PHASE SHIFT ANALYSIS AND COMPARISON OF SOLUTION WITH PION-NUCLEON SCATTERING DATA
UCRL-7846 N64-28699 20-23

EFFECTS OF ROD WIDTH AND WAVEGUIDE HEIGHT ON FERRITE PHASE SHIFTER
NRL-6112 N64-29874 21-25

INTRA-PULSE PHASE SHIFT IN LINEAR BEAM MICROWAVE TUBES
USAELRDL-TR-2465 N64-29991 21-09

PHASE SHIFT BY PERIODIC LOADING OF WAVEGUIDE
ESD-TDR-64-344 N64-30697 22-09

CHARACTERISTICS OF FERRITE PHASE SHIFTERS FOR CENTIMETER BAND N64-31359 23-09

PRECISION ALTERNATING CURRENT DRAG CUP TACHOMETERS - PHASE SHIFT AND LINEARITY
N64-31485 23-15

BRUSHLESS ELECTROMAGNETIC PHASE SHIFTING DEVICE
N64-31503 23-09

FLUORESCENCE DURATION MEASUREMENT WITH PHASE FLUOROMETER - EXCITATION BY HIGH FREQUENCY MODULATED LIGHT
TR-413 N64-32275 23-23

SEMICONDUCTOR PHASE SHIFTING DEVICES IN L- AND S-BANDS
AD-601003 N64-33003 24-09

PHASE-SPACE INTEGRAL
INVARIANT PHASE-SPACE INTEGRAL FOR SYSTEM OF N-PARTICLES
LNF-63/77 N64-14451 06-23

PHASE TRANSFORMATION
PHASE TRANSFORMATION IN DIRECT AND INDIRECT REDUCTION OF URANIUM-OXYGEN SYSTEMS
JPRS-19324 N64-10655 01-07

CRYSTAL LATTICE STATE AND DISLOCATION DENSITY IN AUSTENITE & FERRITE DURING PHASE TRANSFORMATIONS
N64-16122 08-25

K-ABSORPTION EDGE OF CHROMIUM DURING PHASE TRANSFORMATIONS OF IRON-CHROMIUM ALLOYS
N64-16222 08-23

PHASE TRANSFORMATION IN IRON-NICKEL ALLOYS
N64-17045 09-18

CRYSTALLINE PHASE TRANSFORMATION IN LITHIUM-ALUMINATE
RTD-TDR-63-4151 N64-17230 09-25

PHASE TRANSFORMATION OF BURNING POWDERS
FTD-TT-63-112/1&2&4 N64-23421 16-26

PHYSICAL AND MECHANICAL PROPERTIES OF METASTABLE GAMMA PHASE OF URANIUM ALLOY CONTAINING NIOBIUM AND ZIRCONIUM
UCRL-7869 N64-28778 20-18

PHASES AND TWINNING IN TERNARY ALUMINUM BOROCARBIDE CRYSTALS
TR-2 N64-29241 21-25

PHASE TRANSFORMATIONS IN IRON-VANADIUM ALLOYS
JPRS-26338 N64-30670 22-18

WELDABILITY OF STEELS CONTAINING NICKEL, CHROMIUM, AND MOLYBDENUM - EFFECTS OF COMPOSITION ON PHASE TRANSFORMATIONS AND TOUGHNESS OF WELDING ZONES
AD-600933 N64-33794 24-18

PHASE VELOCITY
PHASE VELOCITY OF ELECTROMAGNETIC WAVES IN VERY LOW FREQUENCY RANGE
FTD-TT-63-807/1&2 N64-11545 03-09

WAVE EQUATION & GREEN FUNCTION FOR ELECTRIC FIELD IN MOVING MEDIUM - PHASE VELOCITY OF DIPOLE
NASA-CR-59185 N64-33163 24-23

PHASED ARRAY
SIGNAL PROCESSOR FOR PHASED ARRAY ANTENNAS
CU-29-64-AF-1113-ERL N64-21224 14-08

MONOPOLE PHASED ARRAY FEED FOR SPHERICAL REFLECTOR
AFCRL-64-291 N64-22611 15-08

TUNNEL DIODES FOR PHASED ARRAY RADAR SYSTEMS
QPR-3 N64-25721 17-09

ELECTRO-OPTICAL SIGNAL PROCESSING TECHNIQUES FOR PHASED ARRAY ANTENNAS
CU-35-64-AF-1113-ERL N64-26319 18-08

L BAND MICROWAVE AMPLIFIER FOR USE IN PHASED ARRAY RADAR SYSTEMS - FOCUSING OF TRAVELING WAVE TUBE
MTPR-22 N64-26643 18-08

PHASED ARRAY RADAR RESEARCH AND HAYSTACK PROJECT-RADAR SIGNAL PROCESSING, TRANSMITTERS, RANGE MEASUREMENTS, AND MICROWAVE COMPONENTS
ESD-TDR-64-335 N64-30179 21-08

TUNNEL DIODES FOR PHASED ARRAY RADAR
AD-602771 N64-30752 22-09

L-BAND TRAVELING WAVE TUBE FOR APPLICATION IN PHASED ARRAY RADAR SYSTEMS
AD-600312 N64-33050 24-09

HIGH JUNCTION CAPACITANCE AND LOW DIODE RESISTANCE REQUIREMENTS FOR PHASED ARRAY ANTENNA
FR-63-14-231 N64-33445 24-09

SIGNAL PROCESSING TECHNIQUES USING OPTICAL AND ULTRASONIC DEVICES FOR PHASED ARRAY ANTENNAS
CU-40-64-AF-1113-ERL N64-33590 24-08

ELECTRO-OPTICAL SIGNAL PROCESSOR FOR PHASED ARRAY ANTENNAS
CU-29-63-AMC-74/R/-ERL N64-33723 24-08

PHENANTHRENE
ELECTRICAL RESISTIVITY OF NAPHTHALENE, GLUCOSE, AND PHENANTHRENE
NOLTR-63-75 N64-26238 18-25

PHENOL
5A EPOXY RESIN
EFFECT OF RESIN COMPOSITION AND FILLERS ON PERFORMANCE OF MOLDED CHARRING ABLATOR IN SUBSONIC ARC JET
NASA-TN-D-2024 N64-11553 03-13

GLASS CLOTH-PHENOLIC LAMINATES FOR INSULATION OF CORROSION RESISTANT STEEL RUB-STRIP FACE PLATES
FGT-2735, ADD. 1 N64-15683 07-19

PROTECTIVE AND THERAPEUTIC ANTIRADIATION & ANTI-OXIDATION PROPERTIES OF VARIOUS POLYPHENOL STRUCTURES - CHEMOTHERAPY
JPRS-23567 N64-16543 08-16

FATIGUE STRENGTH OF PHENOLIC LAMINATES UNDER CYCLIC LOADING
FPL-027 N64-16986 09-19

FLOW BEHAVIOR OF PHENOLIC RESINS USING CONE AND PLATE VISCOMETER - BIBLIOGRAPHY
N64-19781 12-11

EFFECT OF WEIGHT, DENSITY, AND HEAT LOAD ON PERFORMANCE OF HEAT SHIELD OF PHENOLIC RESIN AND NYLON POWDER
NASA-TN-D-2196 N64-22021 15-19

STRUCTURAL ABLATION AND DENSITY OF MOLDED SILICA FIBERS IMPREGNATED WITH PHENOLIC RESIN
A751 N64-22593 15-19

SYNTHESIS OF ETHERS, PHENOLS, AND RELATED COMPOUNDS HAVING NITROGEN-CONTAINING GROUPS
AD-439242 N64-25112 17-07

CARBON-CLOTH AND PHENOL-RESIN ENTRANCE CAP
N64-27034 19-19

ABLATION SENSORS FOR MEASURING POSITION AND MOVEMENT OF INTERNAL DEGRADATION ZONES IN PHENOLIC-GRAPHITE HEAT SHIELDS
SSD-TDR-64-173 N64-32525 23-15

PHENOL FORMALDEHYDE
PROPERTIES OF ELECTRIC INSULATED PLASTICS OF PHENOL-FORMALDEHYDE AND CARBAMIDE RESINS
JPRS-19519 N64-11218 02-19

HIGH TEMPERATURE OXIDATIVE DEGRADATION OF PHENOL-FORMALDEHYDE POLYCONDENSATES
RR-46 N64-12122 03-07

THERMODYNAMIC PROPERTIES OF PHENOL FORMALDEHYDE RESIN AT TEMPERATURES TO 6000 DEGREES KELVIN AND PRESSURES TO 100,000 ATMOSPHERES
RM-3988-PR N64-14979 06-13

PHENOMENON
S PHYSIOLOGICAL PHENOMENA

PHENYL
ELECTRO-OXIDATION OF 1,2 BIS/DIPHENYL/BORATE ION
AROD-2814-3 N64-10552 01-07

EFFECTIVE SHIELDING VALUES OF THE PHENYL GROUP IN SOME GROUP IVB AND VB COMPOUNDS
ASD-TDR-63-832 N64-12229 03-07

BIPHENYL LIQUID HEAT TRANSFER AND VAPOR DEPOSITION
IDO-11006 N64-16552 08-13

CATALYTIC HYDROCRACKING OF POLYPHENYLS FOR RECOVERY OF ORGANIC NUCLEAR REACTOR COOLANT
MRB-6003TI N64-16553 08-07

DETERMINATION OF TRACE AMOUNTS OF INORGANIC COMPOUNDS IN POLYPHENYLS BY X-RAY SPECTROGRAPHY
EUR-478.F N64-16926 09-07

POLYPHENYL ANALYSIS
IDO-16912 N64-17839 09-07

THERMAL CONDUCTIVITY OF POLYPHENYLS USED AS REACTOR COOLANTS
EUR-582.D N64-19006 11-13

MICRODETERMINATION OF VISCOSITY OF POLYPHENYLS - AROMATIC COMPOUNDS
EUR-594.D N64-19041 11-23

COORDINATION CHAIN POLYMER OF QUINIZARIN & BIS-ACETOACETYL-PHENYL ETHER
RSIC-168 N64-21577 15-07

FORMATION OF P-PHENYL PHOSPHONIC ESTER AND CHARACTERISTICS OF ESTER-ALKYL RADICALS
N64-28046 20-07

X-RAY CRYSTALLOGRAPHIC AND POWDER DIFFRACTION ANALYSIS OF GROUP IV A AND V A PHENYL COMPOUNDS
ASD-TDR-63-673 N64-31707 23-07

SPACECRAFT APPLICATIONS OF SUBLIMING MATERIALS - BIPHENYL, CAMPHOR, AND NAPHTHALENE
TG-593 N64-33016 24-23

LUMINESCENT PROPERTIES OF MIXED PHENYL AND P-BIPHENYLYL SILANES
GSP/PHYS/64-11 N64-33820 24-07

PHENYLENE
POLYMERIZATION OF PHENYLENE GROUPS WITH SILICON-NITROGEN-SILICON BONDS BY ALUMINUM ETHOXIDE
NASA-CR-55800 N64-25918 18-08

PHILOSOPHY
RELATIONSHIP BETWEEN EMPIRICAL AND THEORETICAL IN SCIENCE, PHYSIOLOGICAL BASIS OF CONSCIOUSNESS - EPISTEMOLOGY
JPRS-18208 N64-10751 02-19

CYBERNETIC RELATION TO SCIENCE AND TECHNOLOGY, NEUROLOGY, PATHOLOGY, MATHEMATICS, AND PHILOSOPHY
JPRS-23234 N64-14944 06-16

CONTRIBUTION OF MAGIC, MYSTERY, SUPERSTITION, AND RELIGION TO CONTEMPORARY SCIENTIFIC METHOD
P-2930 N64-29950 21-01

PHILOSOPHY OF CYBERNETICS N64-30208 22-20

PHONON
SCATTERING DESCRIPTION OF ELECTROMAGNETIC WAVES BY ELECTRON DENSITY PROFILE OF ELECTRON-PHONON SYSTEM
MATT-201 N64-11585 03-24

ELECTRON-PHONON INTERACTION SUPERCONDUCTIVITY IN TRANSITION METALS N64-15274 07-23

SEMICONDUCTOR DEVICE - PHONON DRAG STUDY OF SCATTERING IN SILICON
AD-432700 N64-17661 09-25

RELAXATION TIME AND PHONON MEAN FREE PATH FOR ELECTRON-ION GAS - QUANTUM MECHANICS
IPPJ-18 N64-18143 10-24

PHONON-ELECTRON INTERACTION AND CONDUCTIVITY OF IMPURITY BANDS - THEORETICAL PHYSICS
TSR-3 N64-22228 15-23

PHONON INTERACTIONS IN SOLID STATE MATERIALS, STIMULATED EMISSION OF BREMSSTRAHLUNG RADIATION, AND TRAVELING WAVE PHONON INTERACTIONS
REPT.-06031-2-S N64-26701 18-25

ELECTRON-PHONON INTERACTIONS IN CRYSTALS FOR USE AS SEMICONDUCTOR DEVICES
REPT.-3 N64-27770 19-25

CALCULATION OF PHONON FREQUENCIES IN SODIUM AND COMPARISON WITH NEUTRON DIFFRACTION MEASUREMENTS
TR-18 N64-29543 21-23

PHONON INTERACTIONS IN CRYSTALS - APPLICATION TO AMPLIFIERS, OSCILLATORS, AND FREQUENCY CONVERTERS OF MICROWAVE ACOUSTIC ENERGY
QTR-4 N64-30908 22-25

ELECTRIC CONDUCTIVITY FORMULA APPLIED TO ELECTRON SCATTERING AND INTERACTION WITH PHONONS
AD-603082 N64-31450 23-23

SPECULAR REFLECTION OF PHONONS IN SUPERFLUID HELIUM
NASA-CR-59293 N64-33333 24-23

PHOSGENE
EQUILIBRIA AND KINETICS OF PHOSGENE REACTION WITH THORIUM OXIDE
IS-917 N64-32414 23-07

PHOSPHATE
ULTRAVIOLET SYNTHESIS OF ADENOSINE TRIPHOSPHATE UNDER POSSIBLE PRIMITIVE EARTH CONDITIONS
NASA-CR-52132 N64-10092 01-12

PERMEABILITY OF HEMATOENCEPHALIC BARRIER TO INORGANIC PHOSPHATE IN ACUTE RADIATION SICKNESS
JPRS-21628 N64-10119 01-16

FORMATION OF CALCIUM PHOSPHATE CRYSTALS
UR-628 N64-10189 01-07

EFFECT OF BODY TEMPERATURE IN BRAIN AND MUSCLE ON ADENOSINE TRIPHOSPHORIC ACID AND CREATINE PHOSPHATE CONTENT N64-12572 04-16

SYNTHESIS OF ADENOSINE TRIPHOSPHATE UNDER POSSIBLE PRIMITIVE EARTH CONDITIONS
NASA-RP-94 N64-13168 04-16

QUANTITATIVE ANALYSIS BY RADIOACTIVE PHOSPHORUS-32 OF TRICALCIUM PHOSPHATE SOLUBILIZED BY BACILLI N64-13474 05-16

IONIZING RADIATION EFFECT ON THIOPHOSPHATE OXIDIZING ENZYME IN RAT LIVER - BIOCHEMISTRY N64-13503 05-16

DIODE FLUORESCENCE DETECTION OF ZINC DIFFUSION INTO RARE-EARTH DOPED GALLIUM ARSENIDE AND INDIUM PHOSPHATE N64-17875 10-25

THERMAL EXPANSION DIFFERENCES BETWEEN MATRIX AND REINFORCEMENT ON STRENGTH RETENTION OF GLASS REINFORCED ALUMINUM PHOSPHATE LAMINATES
IER-4 N64-20179 13-13

PREPARATION OF PHOSPHORUS 32-LABELLED SODIUM PYROPHOSPHATE N64-25559 17-07

ABSORPTANCE AND EMITTANCE CHARACTERISTICS OF AMORPHOUS PHOSPHATE COATINGS APPLIED TO ALUMINUM FOIL SUBSTRATE - THERMAL CONTROL OF ECHO II SATELLITE
NASA-RP-303 N64-28752 20-19

PHOSPHATE COATINGS ON STEEL AS PAINT UNDERCOATS OR PRIMERS
RIA-TR-63-3893 N64-29244 21-17

COEFFICIENTS OF FRICTION FOR PHOSPHATE COATINGS ON WEAPON COMPONENTS
SA-TR-18-1084 N64-29793 21-17

SEPARATION OF VARIOUS PHOSPHATES BY CHROMATOGRAPHY AND ION EXCHANGE RESIN EXEMPLIFIED BY MONITORING PHOSPHORUS 32 N64-32010 23-07

PHOSPHIDE
SA GALLIUM PHOSPHIDE
THERMAL DECOMPOSITION PRESSURE OF BORON PHOSPHIDE USING HYDROGEN AS CARRYING GAS N64-17345 09-07

SOLID SOLUTIONS OF QUASI-BINARY SYSTEM INDIUM PHOSPHIDE-GALLIUM PHOSPHIDE - CRYSTALLINE LATTICE IDENTIFICATION
FTD-TT-64-151/162 N64-28528 20-25

PHOSPHINE
EXTRACTION OF HYDROGEN PERCHLORATE AND NITRIC ACID INTO TRIOCTYLPHOSPHINE OXIDE FROM CARBON TETRACHLORIDE AND NITROBENZENE SOLUTIONS
UCRL-10971 N64-15243 07-07

POSSIBLE DIAGNOSTIC TECHNIQUE FOR DETERMINING BODY REACTION TO SMALL DOSES OF IONIZING RADIATION BY OBSERVING PHOSPHINE THRESHOLD OF RETINA N64-15679 07-16

FORMATION OF HEPTAFLUOROPROPYLPHOSPHINE BY HYDROLYSIS
A63-14 N64-18631 11-07

FORMATION OF P-PHENYL PHOSPHONIC ESTER AND CHARACTERISTICS OF ESTER-ALKYL RADICALS N64-28046 20-07

ONE-CENTER SELF-CONSISTENT FIELD MOLECULAR ORBITAL WAVE FUNCTIONS FOR GROUND STATES OF AMMONIA, AMMONIUM ION, PHOSPHINE, AND PHOSPHONIUM ION N64-30316 22-23

PHOSPHONITRILE
THERMOPLASTIC & THERMOSETTING RESINS FROM PHOSPHONITRILIC CHLORIDE TRIMER
TR-3 N64-14626 06-19

PHOSPHONITRILIC POLYMERS STABLE AT HIGH TEMPERATURES
AD-428598 N64-15122 07-07

PREPARATION OF NEW THERMOPLASTIC, THERMOSETTING POLYMERS FROM PHOSPHONITRILIC CHLORIDE TRIMER
AD-429132 N64-15695 07-07

PHOSPHONITRILE POLYMERS WITH HIGH TEMPERATURE STABILITY
QR-3 N64-30535 22-07

PHOSPHOR
SA PHOSPHORESCENCE
PHOSPHORS USED IN CATHODE RAY TUBE SCREEN TO TRANSFORM ELECTRON BEAM ENERGY INTO LIGHT RADIATION
JPRS-18362 N64-10758 02-09

LINE EMISSION AND ABSORPTION OF CHROMIUM

PHOSPHORES - ZEEMAN EFFECT
E-T-G-63-19 N64-12279 03-23

LINE EMISSION AND ABSORPTION OF CHROMIUM PHOSPHORS
E-T-G-63-17 N64-12823 04-23

LINE EMISSION AND ABSORPTION OF CHROMIUM PHOSPHORS
E-T-G-63-18 N64-12824 04-23

EMISSION, ABSORPTION, AND EXCITATION SPECTRA OF LIUMOGEN PHOSPHOR FOR WAVELENGTH CONVERSION
N64-16682 08-23

OPTICAL QUENCHING & STIMULATION OF ZINC-SULFIDE PHOSPHORS
FTD-MT-63-41/1&2 N64-18753 11-25

PHOSPHOR SCREENS FOR HIGH RESOLUTION DISPLAY DEVICE
AL-TDR-64-94 N64-21105 14-17

PHOSPHOR PREPARATION USING CALCIUM SULFATE AND METALLIC ACTIVATORS N64-24566 17-07

EFFECT OF CALCIUM SULFATE AND METALLIC ACTIVATORS ON EXOELECTRONIC EMISSION OF PHOSPHORS
N64-24567 17-23

THERMOLUMINESCENCE OF PHOSPHORS BASED ON CALCIUM SULFATE WITH MANGANESE AND SAMARIUM ACTIVATORS
N64-24568 17-23

DEPOSITION OF PHOSPHOR CATHODOLUMINESCENT FILM BY SOLUTION SPRAY TECHNIQUE
IER-3 N64-25324 17-17

PERFORMANCE CHARACTERISTICS OF ELECTROLUMINESCENT ZINC SULFOSELENIDE PHOSPHOR POWDERS IN PLASTIC DIELECTRICS
RADC-TDR-64-159 N64-29965 21-07

PHOSPHOR EVALUATION, GUN DESIGN, AND ELECTRON OPTICS OF MINIATURE FIBER OPTIC CATHODE RAY TUBES
QPR-1 N64-31701 23-09

PHOSPHORESCENCE
POLARIZED PHOSPHORESCENCE AND CORRELATION BETWEEN DICHROISM OF PHOSPHORESCENCE AND ABSORPTION
E-T-F-C-63-1 N64-13126 04-25

SPRAY PROCESS IN PREPARATION OF CATHODOLUMINESCENT FILMS
AL-TDR-64-15 N64-19102 11-25

PHOSPHORIC ACID
ELECTROCHEMICAL CORROSION OF METALS AND ALLOYS IN PHOSPHORIC ACID ELECTROLYTE OF HYDROCARBON-AIR FUEL CELLS
AD-439400 N64-21297 14-06

CORROSION OF STAINLESS STEEL BY SIMULATED WATER MODERATED REACTOR FUEL - DEPLETED URANIUM OXIDE IN NITRIC OR PHOSPHORIC ACID
LA-3101 N64-29772 21-18

PHOSPHORUS
NEAR-INFRARED MODULATION RADIOMETER USING PHOSPHORUS RECEIVER
FTD-TT-63-180/1&2 N64-12372 03-25

ALGAE FOR HUMAN NUTRITION AND CALCIUM & PHOSPHORUS USED TO REDUCE STRONTIUM-90 CONTENT OF RAT SKELETON
JPRS-22295 N64-12442 04-16

CALCIUM AND PHOSPHORUS DIETARY SUPPLEMENT AS MEANS OF REDUCING STRONTIUM-90 ACCUMULATION IN SKELETAL BONES OF RATS N64-12444 04-16

PHOSPHORDUS-PROTON NUCLEAR MAGNETIC RESONANCE COUPLING CONSTANTS - SIGN DETERMINATION
NASA-CR-53008 N64-13277 04-23

ARSENIC AND PHOSPHORDUS DOPED CRYSTALS EVALUATION FOR TRANSISTOR EFFECT ON RADIATION RESISTANCE
QR-1 N64-13619 05-25

GAMMA-RAY SPECTROMETRIC DETERMINATION OF IRON, COPPER, PHOSPHORDUS, AND NICKEL IN SILICON USING ION-EXCHANGE
AFCRL-63-388 N64-14685 06-23

BED REST STUDY OF RADIOGRAPHIC BONE DENSITY AND URINE ANALYSIS FOR CALCIUM AND PHOSPHORUS
NASA-CR-55313 N64-14898 06-14

NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY - LONG RANGE PHOSPHORUS-HYDROGEN SPIN-SPIN COUPLING
AROD-2276-6 N64-17482 09-23

X-RAY FLUORESCENCE ANALYSIS OF POTASSIUM, BARIUM, RUBIDIUM, STRONTIUM, TITANIUM, ZIRCONIUM, AND PHOSPHORUS
RSIC-137 N64-17656 09-07

INFRARED ABSORPTION BANDS FOR NITROGEN-HYDROGEN AND PHOSPHORUS-HYDROGEN BONDS
AD-434269 N64-21321 14-07

TEMPERATURE AND CONCENTRATION DEPENDENCE OF HALL MOBILITY OF ELECTRONS IN SILICON ALLOYED WITH ARSENIC AND PHOSPHORUS
FTD-TT-63-687/1&2 N64-21953 15-23

HIGH PRESSURE RESEARCH ON ORGANIC FLUOROCARBON AND INORGANIC SYNTHESIS IN BORON-PHOSPHORUS-NITROGEN-CARBON SYSTEM
AROD-3177-3 N64-32369 23-07

INCLUSION COMPLEXES FORMED BY SULFUR, PHOSPHORUS AND MERCURY IN ZEOLITES - SORPTION AND ADSORPTION
AD-447257 N64-33981 24-07

REACTIONS OF BERYLLIUM WITH ALUMINUM, NITROGEN, BORON, AND PHOSPHORUS
NAVWEPS-8204 N64-34003 24-18

PHOSPHORUS COMPOUND
QUANTITATIVE ANALYSIS BY RADIOACTIVE PHOSPHORUS-32 OF TRICALCIUM PHOSPHATE SOLUBILIZED BY BACILLI
N64-13474 05-16

PHOSPHOPROTEIN METABOLISM IN CEREBRAL CORTEX FUNCTIONING
AD-430174 N64-15955 07-16

COPOLYCONDENSATION OF BORON AND PHOSPHORUS DIFUNCTIONAL ACIDS N64-18486 10-07

ORGANIC CHEMISTRY - CHEMICAL REACTIONS OF POLYMERIC PHOSPHONITRYLCHLORIDES
FTD-TT-63-1101/1&264 N64-19758 12-07

REACTION OF ALLYL ALDEHYDE WITH PHOSPHORUS TRICHLORIDE N64-23005 16-07

MECHANISMS OF HYDROLYSIS OF PHOSPHONATE ESTERS
AD-437607 N64-24226 16-07

RATE EQUATIONS DERIVED FOR SIX-LEVEL MASER USING CROSS RELAXATIONS BETWEEN SPIN LEVELS IN PHOSPHORUS-BORON DOPED SILICON
AFCRL-64-243 N64-28577 20-23

NICKEL-TUNGSTEN DEPOSITION FROM HYPOPHOSPHITE BASED ELECTROLESS PLATING SOLUTION
A-63-23 N64-31658 23-07

PHOSPHORUS 32
BIOLOGICAL EFFECT OF LOW DOSES OF RADIOACTIVE ISOTOPES - SODIUM-24 AND PHOSPHORUS-32 IN RATS, RABBITS, AND DOGS N64-12433 04-16

PREPARATION OF PHOSPHORUS 32-LABELLED SODIUM PYROPHOSPHATE N64-25559 17-07

SEPARATION OF VARIOUS PHOSPHATES BY CHROMATOGRAPHY AND ION EXCHANGE RESIN EXEMPLIFIED BY MONITORING PHOSPHORUS 32 N64-32010 23-07

PHOSPHORYLATION
OF METABOLISM
ROLE OF ANAEROBIC & OXIDATIVE PHOSPHORYLATION PROCESSES IN PROTECTIVE FUNCTIONS OF ORGANISMS
N64-17172 09-16

CHEMICAL REACTIONS TO SUPPORT OXIDATIVE PHOSPHORYLATION MECHANISM N64-19467 12-07

PHOTOSYNTHETIC RESEARCH - PHOTOREACTIVATION, OXYGEN EXCHANGE, PHOSPHORYLATION AND DIFFERENCE SPECTROSCOPY
NASA-CR-59204 N64-33211 24-16

PHOTOCATALYSIS
SEMICONDUCTOR SOLIDS USED AS PHOTOCATALYSTS IN FORMATION OF ENDOTHERMIC COMPOUNDS
AFCRL-64-120 N64-19145 11-25

PHOTOCATALYZED DECOMPOSITION OF WATER INTO GASEOUS HYDROGEN AND OXYGEN, AND MECHANISMS OF INTRAMOLECULAR ELECTRON TRANSFER IN ORGANIC COMPOUNDS
AFCRL-64-431 N64-28576 20-07

PHOTOCHEMISTRY
OF PHOTOSYNTHESIS
PHOTOCHEMICAL DISTRIBUTION OF OZONE IN OXYGEN ATMOSPHERES
SAD-123 N64-10225 01-12

OZONE DISTRIBUTION IN ATMOSPHERE WITH LIMITS OF VARIATION DUE TO PHOTOCHEMICAL REACTIONS
SAD-124 N64-10226 01-12

SILICON CRYSTALS, NITROGEN-SULFUR SYSTEMS, PHOTOCHEMISTRY, PLASMAS, AND CHELATES USED IN ENERGY CONVERSION SYSTEMS
AFCRL-63-940 N64-15489 07-01

PHOTOCHEMISTRY OF SOME ORGANIC SULFUR COMPOUNDS AND KETONES N64-15492 07-07

SPECTRAL ABSORPTION AND PHOTOCHEMICAL STUDY OF CHLOROPHYLL DERIVATIVES DISSOLVED IN WATER MEDIUM
FTD-TT-63-1008/1&2&4 N64-16430 08-07

KINETICS OF THERMAL & PHOTOCHEMICAL DECOMPOSITION OF SOME ALKALI METAL AZIDES
AD-432035 N64-22207 15-19

CONVERSION OF LIGHT INTO CHEMICAL ENERGY BY LIVING ORGANISMS
AFOSR-64-1192 N64-31031 22-16

ANNOTATED BIBLIOGRAPHY ON DYE SENSITIZED PHOTOREACTIONS - SILVER HALIDE, FREE RADICAL, AND POLYMERIZATION SENSITIZERS
AL-TDR-64-130, PT. II, VOL. I N64-32214 23-07

PHOTOCONDUCTIVE CELL
MEASURING GAMMA RADIATION WITH MICRODETECTOR COMPOSED OF PLASTIC SCINTILLATOR & SELENIUM PHOTOCONDUCTIVE CELL
FTD-TT-63-863/1&2 N64-12842 04-23

PHOTOCONDUCTIVE CADMIUM SULFIDE AND SELENIDE MATERIALS FOR SOLID STATE IMAGE INTENSIFIER PANEL
NTER-1 N64-24898 17-25

SEMICONDUCTOR CHARACTERISTICS OF CADMIUM SELENIDE PHOTOCONDUCTIVE CELLS IN COPLANAR AND SANDWICH CONSTRUCTIONS
NTER-2 N64-24899 17-25

COPLANAR AND SANDWICH CONSTRUCTION OF CADMIUM SELENIDE PHOTOCONDUCTIVE CELL
NTER-3 N64-24900 17-25

NONLINEAR RESISTIVE, PHOTOCONDUCTIVE, AND ELECTROLUMINESCENT LAYERS FOR CROSSED GRID DISPLAY
GE/EE/63-2 N64-31151 22-09

PHOTOCONDUCTIVITY
CREATION OF PHOTOACTIVE SURFACE ON LEAD SULFIDE CRYSTALS WITH ELECTRON CONDUCTION AND WITHOUT PHOTOCONDUCTIVE PROPERTIES
FTD-TT-62-1517 N64-11588 03-25

PHOTOCONDUCTIVE AND OPTICAL PROPERTIES OF SEMICONDUCTORS N64-12173 03-25

INTRINSIC PHOTOCONDUCTIVITY IN THIN FILMS OF ALKALI HALIDES
AROD-204-8 N64-14167 05-19

GAMMA RADIATION PHOTOCONDUCTIVITY DECAY IN ORGANIC DIELECTRIC MATERIALS
SCR-671 N64-18008 10-19

NEUTRON AND GAMMA RADIATION EFFECTIVENESS IN PRODUCING PHOTOCONDUCTIVITY IN ORGANIC DIELECTRIC MATERIALS
SCR-670 N64-24893 17-23

PHOTOCONDUCTIVITY OF GALLIUM ANTIMONIDE
AD-600178 N64-25952 18-23

PHOTOCONDUCTIVITY IN THIN FILMS
AD-440163 N64-26273 18-25

PHOTOCONDUCTIVITY OF CADMIUM SULFIDE EXCITED BY QUENCHING INFRARED RADIATION
RADC-TDR-64-3479 N64-28561 20-25

PHOTOCONDUCTIVITY IN POLYCRYSTALLINE CADMIUM TELLURIDE
AD-601800 N64-28821 20-25

MEASUREMENT OF PHOTOELECTRIC PROPERTIES OF SEMICONDUCTORS WITHOUT CONTACT BETWEEN ELECTRODE AND SAMPLE SURFACE
FTD-TT-64-155/1&2 N64-30105 21-25

PHOTOCONDUCTIVITY OF MICROCRYSTALLINE POWDERS OF CADMIUM SULFIDE
LNF-64/30 N64-32002 23-25

PHOTOCONDUCTOR
PHOTOCONDUCTOR-ELECTROLUMINESCENT SOLID STATE LIGHT INTENSIFIER
NAVTRADEVCEN-562-1 N64-18563 11-25

SOLID STATE SANDWICH-TYPE IMAGE INTENSIFIER CONSISTING OF PHOTOCONDUCTIVE LAYER AND PHOTOGRAPHIC EMULSION IN ELECTRIC FIELD
AFCRL-64-133 N64-18598 11-25

IMAGE RECORDING AND DISPLAY OF CATHODE RAY TUBE INFORMATION BY SURFACE DEFORMATION OF REUSABLE PHOTOCONDUCTIVE THERMOPLASTIC FILM
RADC-TDR-63-532 N64-18866 11-15

TWENTY-FIVE STARS FROM B8 TO M7 MEASURED BY PHOTOMETER USING GERMANIUM PHOTOCONDUCTOR N64-19710 12-05

SURFACE TEMPERATURE VARIATIONS DURING LUNAR NIGHT MEASURED WITH PHOTOMETER INCORPORATING MERCURY-DOPED GERMANIUM PHOTOCONDUCTOR N64-20608 13-05

PHOTOCONDUCTOR IMAGING TECHNIQUE WITH THERMOPLASTIC STORAGE
RL-64-6 N64-22273 15-15

COMPUTER PROGRAM FOR CIRCUIT PARAMETERS OF ELECTROLUMINESCENT PHOTOCONDUCTOR - IMAGE INTENSIFIER
NTER-4 N64-24901 17-25

HIGH RESOLUTION CAMERA TUBES USING VIDICON PHOTOCONDUCTIVE TARGETS
AL-TDR-64-171 N64-26172 18-08

FIELD INHOMOGENEITIES IN PHOTOCONDUCTOR
AD-600830 N64-26620 18-25

MATHEMATICAL ANALYSIS OF PHOTOCONDUCTOR ELECTROLUMINESCENCE CIRCUIT FOR IMAGE INTENSIFIER
NTER-6 N64-26862 18-09

DYNAMIC LARGE SCREEN ELECTROCHEMICAL DISPLAY EMPLOYING PHOTOCONDUCTOR PHENOMENA IN CONJUNCTION WITH ELECTROCHEMICAL DEPOSITION ACTION
RADC-TDR-64-137 N64-26936 18-15

PHOTODETACHMENT
S PLANE WAVE

PHOTODIODE
NEGATIVE PHOTODIODE EFFECT OF GERMANIUM DIODES EXPOSED TO GAMMA RADIATION
FTD-MT-63-88/1&2&3&4 N64-14377 08-25

ULTRAVIOLET PHOTODIODE SENSITIVE ONLY TO LIGHT OF WAVELENGTH LESS THAN 3050 ANGSTROMS FOR STUDYING

ABLATION PHENOMENA
GA-4611 N64-21120 14-09

MODULATION AND PHOTODIODE DEMODULATION OF OPTICAL WAVES
U2-802400-2 N64-23475 16-25

DETECTION OF SCINTILLATION PHOTONS WITH PHOTODIODES N64-24009 16-23

PERFORMANCE CHARACTERISTICS OF SILICON PHOTODIODE IN DIFFERENT RADIATION BACKGROUNDS
NOLC-595 N64-26491 18-09

SILICON PHOTODIODE VACUUM ULTRAVIOLET DETECTOR
NASA-CR-58055 N64-26805 18-15

FIGURES-OF-MERIT FOR PHOTODEVICES, OPTICAL MIXERS USING PHOTOELECTRIC EMISSION, OPTICAL MIXING IN SEMICONDUCTORS, & MIXING IN INSULATING CRYSTALS
AFCRL-63-508 N64-29279 21-09

MODIFICATIONS TO PROCESSING EQUIPMENT AND FABRICATION OF PHOTODIODE AND PHOTOMULTIPLIER PARTS
IR-1 N64-29686 21-17

QUANTUM EFFICIENCY OF SILICON IN VACUUM ULTRAVIOLET FROM PHOTODIODE RESPONSE
N64-30470 22-25

PHOTOELASTIC MATERIAL
DETERMINATION OF STRESS AND DEFORMATION IN FLEXIBLE PLATES AND SHELLS USING PHOTOELASTIC COATINGS
NASA-TT-F-220 N64-25055 17-33

STATIC AND DYNAMIC PROPERTIES OF PHOTOELASTIC MATERIALS AND POTENTIAL USE IN DYNAMIC STRESS ANALYSIS
NRL-5940 N64-28873 20-19

PHOTOELASTIC STRESS MEASUREMENT
PHOTOELASTIC STRESS MEASUREMENT OF ULTRASONIC ECHO PATTERNS IN CIRCULAR GLASS PLATES OF VARIOUS SIZES AND SHAPES
WAL-TR-143.5/2 N64-13725 05-23

PHOTOELASTIC STRESS MEASUREMENT ON STEAM GENERATOR
NAA-SR-8515 N64-14540 06-33

TENSILE STRESS FIELDS DUE TO HOLES SUPERIMPOSED BY EXTERNAL NOTCHES, AND INVESTIGATED BY PHOTOELASTIC AND TENSILE FRACTURE TESTS
ML-TDR-64-144 N64-28543 20-33

STATIC AND DYNAMIC PROPERTIES OF PHOTOELASTIC MATERIALS AND POTENTIAL USE IN DYNAMIC STRESS ANALYSIS
NRL-5940 N64-28873 20-19

PHOTOELASTIC METHODS USED TO STUDY INTERNAL STRESS
RSIC-240 N64-29911 21-25

PHOTOELASTIC STRESS DISTRIBUTION MEASUREMENTS IN STRUCTURAL ELEMENTS
RSIC-244 N64-29980 21-18

DUAL-BEAM POLARISCOPE FOR OBTAINING PHOTOELASTIC STRESS PATTERNS FOR USE WITH HIGH-SPEED FRAMING CAMERA
A-64-14 N64-31659 23-15

THREE DIMENSIONAL PHOTOELASTIC MEASUREMENT OF THERMAL STRESSES IN MODELS OF PRESSURE VESSEL
AD-447818 N64-32123 23-33

STRESS DISTRIBUTION IN THICK WALLED CYLINDRICAL SHELLS - THREE DIMENSIONAL PHOTOELASTICITY
AFML-TDR-64-65 N64-32143 23-33

PHOTOELASTICITY
CF MECHANICAL PROPERTY
PHOTOELASTICITY OF ELLIPTICAL NOTCHES IN RECTANGULAR BEAMS UNDER PURE BENDING
TOR-169/3230-11/TN-16 N64-12833 04-33

SEISMIC MODEL IMPACTER FOR PHOTOELASTIC STUDIES OF PROPAGATING WAVES
AFCRL-63-790 N64-12858 04-15

MECHANICAL AND PHOTOELASTIC BEHAVIOR OF BIREFRINGENT BAR SUBJECTED TO VIBRATIONS
N64-16205 08-23

OPTICAL METHODS FOR DETERMINING DEFORMATIONS IN THICKNESS OF MODELS - PHOTOELASTICITY
RSIC-186 N64-22724 15-23

REFRACTION OF POLARIZED LIGHT IN PHOTOELASTIC STUDY
RSIC-191 N64-25224 17-33

MATERIALS FOR LAMINATED PHOTOELASTIC MODELS
RAE-TRANS-1064 N64-26545 18-19

PHOTOELASTIC MEASUREMENTS WITH MONOCHROMATIC PHOTOGRAPHY
RSIC-233 N64-29307 21-33

STRENGTH OF LAMINATED MATERIALS EVALUATED BY PHOTOELASTIC TESTING
RAE-TRANS-1070 N64-31019 22-17

CORRELATION OF PHOTO AND MECHANICAL ELASTICITY IN BENDING OF ISOTROPIC MATERIALS UNDER COMPRESSION LOADING
RSIC-270 N64-32497 23-33

PHOTOELECTRIC APPARATUS
GEOMAGNETIC FIELD MICROVARIATION MEASUREMENT USING PHOTOELECTRONIC AMPLIFICATION N64-11663 03-12

PHOTOELECTRIC INFORMATION STORAGE - COMPONENTS FOR TAPE CAMERA STORAGE TUBE
RTD-TDR-63-4134 N64-12188 03-09

PHOTOELECTRIC MILLIMETER WAVE DETECTION IN INDIUM ANTIMONIDE
RADC-TDR-63-502 N64-13789 05-25

PHOTOELECTRIC RECORDING APPARATUS AND MEASUREMENT OF ACCELERATION TOLERANCE OF HUMAN HEAD
AMRL-TDR-63-106 N64-16808 08-16

PHOTOELECTRIC APPARATUS FOR STORING INFORMATION ON NICKEL AND COPPER TAPES
A-51035ARID N64-22495 15-09

REFLECTING TELESCOPE AND PHOTOELECTRIC SPECTROPHOTOMETER FOR STUDY OF PLANETARY OPTICAL EMISSION AND FLARE ACTIVITY OF NEARBY STARS
ONR-14-63 N64-26488 18-28

APPARATUS FOR NARROW PASS BAND PHOTOELECTRIC SPECTROMETRY OF STARS OF FIRST SPECTRAL TYPE
NASA-TT-F-8942 N64-30836 22-05

REFINING GEODETIC TECHNIQUES USING TERRESTRIAL AND SPATIAL CONFIGURATIONS - PHOTOELECTRIC OBSERVATIONS OF SOLAR ECLIPSE
AFCRL-64-699 N64-31823 23-12

MODEL OF PHOTOELECTRIC SCANNING SYSTEM FOR AURORAL HEIGHT MEASUREMENT IN REAL TIME
RS-13 N64-32818 24-12

PHOTOELECTRIC CELL
PHOTOELECTRIC EFFECTS AT SEMICONDUCTOR ELECTRODES
AFCRL-64-362 N64-24136 16-09

LOW LEVEL, LOW-FREQUENCY PHOTOCELL AMPLIFIER-DESIGN, COMPONENTS, TEST RESULTS
TR-64-71 N64-33836 24-09

PHOTOELECTRIC EMISSION
DOUBLE-PHOTON INDUCED PHOTOELECTRIC EMISSION FROM ZINC SINGLE CRYSTALS ACTIVATED BY LASER BEAM
N64-13799 05-25

HOT ELECTRON EMITTERS - VAPOR DEPOSITION OF CADMIUM SULFIDE & PHOTOELECTRIC MEASUREMENT OF HOT ELECTRON RANGE IN GOLD
AFCRL-64-134 N64-18604 11-25

PROVISION OF CLEAN SURFACES FOR SODIUM DEPOSITION AND MEASUREMENT OF SURFACE WORK FUNCTIONS - PHOTOEMISSION

ASD-TDR-63-340 N64-18931 11-25

DOUBLE-QUANTUM PHOTOELECTRIC EFFECT, AND GAIN OF BEAM-PLASMA INTERACTION IN MICROWAVE AMPLIFIERS
RADC-TDR-64-140, VOL. II N64-24171 16-09

PHOTOEMITTERS, PHOTODETECTORS, AND MICROCIRCUITS FOR OPTICAL INTERCONNECTION STUDY
OPR-3 N64-25344 17-25

RESPONSE OF PHOTOEMITTER SURFACE TO LONG WAVE RADIATION
AL-TDR-64-19 N64-26626 18-25

FIGURES-OF-MERIT FOR PHOTODEVICES, OPTICAL MIXERS USING PHOTOELECTRIC EMISSION, OPTICAL MIXING IN SEMICONDUCTORS, & MIXING IN INSULATING CRYSTALS
AFCRL-63-508 N64-29279 21-09

BACKGROUND MEASUREMENTS DURING PHOTOELECTRIC OBSERVATIONS OF ATOMIC OXYGEN LINE EMISSION FOR STELLAR AND ATMOSPHERIC CONTINUUM COMPONENTS
N64-32703 24-12

PREPARATION AND PHOTOELECTRIC EMISSION ANALYSIS OF ATOMICALLY CLEAN METAL SAMPLES
NASA-CR-58960 N64-33047 24-17

PHOTOELECTRIC MATERIAL
PHOTOELECTRIC PROPERTIES OF GERMANIUM DOPED WITH GOLD AND ZINC
JPRS-17980 N64-11022 02-25

PHOTOELECTRIC PROPERTIES OF LEAD SULFIDE IN NEAR AND VACUUM ULTRAVIOLET N64-15302 07-15

PHOTOGRAMMETRY
SA MAPPING
CF PHOTOGRAPHY
DIAL ORIENTATION & TERRESTRIAL PERSPECTIVE POINT
PHOTOGRAMMETRIC COMPUTATIONS FOR POSITION TRIANGULATION
MTC-TDR-63-7 N64-12191 03-12

FORTRAN PROGRAM FOR ERROR CORRECTIONS IN PHOTOGRAMMETRIC OBSERVATIONS - GEOPHYSICS
AFCRL-63-741 N64-12292 03-20

NIMBUS SATELLITE ATTITUDE DETERMINATION BY PHOTOGRAMMETRIC SUBSYSTEM
ARA-9207-03-1 N64-13340 04-32

IMPROVED ACCURACY OF ANALYTICAL AERIAL PHOTOGRAMMETRIC TRIANGULATION PROBLEM BY INCLUDING ERROR CORRECTION IN COMPUTER PROGRAM
R62-4 N64-14014 05-20

COMPUTER TECHNIQUE FOR SOLVING SYSTEM OF NORMAL EQUATIONS ARISING FROM ANALYTICAL PHOTOGRAMMETRIC MULTIPLE STATION AEROTRIANGULATION
RADC-TDR-63-476 N64-14298 06-20

TELEVISION, PHOTOGRAMMETRY, PHOTOMETRY, AND RADIOMETRY ADAPTABLE TO SPACE RECONNAISSANCE - LITERATURE SURVEY
NASA-CR-53045 N64-14890 06-08

REDUCTION AND CALIBRATION FOR PHOTOGRAMMETRIC CAMERAS
AFCRL-64-40 N64-16780 08-15

SPATIAL AEROTRIANGULATION FOR PHOTOGRAMMETRY
N64-20619 13-12

FEASIBILITY OF BALLOON TRAJECTORY ANALYSIS UTILIZING ANALYTICAL PHOTOGRAMMETRY
CER63RWH31 N64-21519 15-08

AERIAL PHOTOGRAMMETRY WITH COLOR AND SPECTROZONAL PHOTOGRAPHIC MATERIALS
FTD-TT-63-827/1 N64-21957 15-15

APPLICATION OF SHORT RANGE PHOTOGRAMMETRY TO PRECISION MEASUREMENT OF SCULPTURES
N64-22216 15-15

MATHEMATICAL ANALYSIS, ENGINEERING DESIGN, & ERROR EVALUATION OF PLOTTER AND RECTIFICATION SYSTEM FOR OBLIQUE AND PANORAMIC PHOTOGRAPHY - PHOTOGRAMMETRY
RADC-TDR-63-367 N64-26672 18-15

BALLISTIC CAMERA TECHNIQUE OF PHOTOGRAMMETRIC TRIANGULATION AS GEODETIC TOOL N64-29107 21-08

PHOTOGRAPH
DETERMINATION OF LUNAR SHAPE BY PHOTOGRAPHS OF ANNULAR ECLIPSES N64-13706 05-05

DIGITAL COMPUTER METHOD OF LOCATING HIGH ALTITUDE VAPOR CLOUDS USING PHOTOGRAPHS N64-17004 09-20

CALCULATION OF LUNAR SURFACE AREA FROM MOON PHOTOGRAPHS USING COMPUTER PROGRAMS
NASA-CR-53588 N64-18434 10-05

PHOTOGRAPHIC DATA OF MOON PROFILE
TC-612 N64-25629 17-29

TECHNICAL ILLUSTRATING - GRAPHS, LINE DRAWINGS, PERSPECTIVE DRAWING, PHOTOGRAPHS, TYPOGRAPHY, AND LAYOUT
NASA-SP-7008 N64-26749 18-01

PHOTOGRAPHS AND DESCRIPTIONS OF NASA PROGRAMS OVER PAST FIVE YEARS
NASA-EP-14-REV.5-64 N64-27667 19-32

HIGH RESOLUTION SCANNING DEVICE FOR PHOTOGRAPHS TO GIVE TELEVISION SIGNALS
RB-64-33 N64-28465 20-08

RANGER VII LUNAR PHOTOGRAPHS, CAMERA A SERIES - LUNAR SURFACE CLOSEUP PICTURES
NASA-SP-61 N64-31723 23-29

PHOTOGRAPH INTERPRETATION
HUMAN FACTORS OF PHOTO INTERPRETATION
RADC-TDR-63-324 N64-10526 01-14

CONTRIBUTIONS OF AUTOMATION TO PHOTO INTERPRETER FUNCTIONS - OPTICAL PROCESSING AND TEXTURAL ANALYSIS N64-10527 01-14

HUMAN FACTOR PROBLEMS IN PHOTO INTERPRETATION N64-10528 01-14

PHOTO INTERPRETATION PERFORMANCE AS FUNCTION OF PHOTOGRAPHIC RESOLUTION AND CONTRAST N64-10529 01-14

DEVELOPMENT OF TECHNIQUES RELATED TO TEMPORAL ASPECTS OF PHOTO INTERPRETATION - EXPOSURE TIME & WORK-REST CYCLES N64-10534 01-14

FLASH AND REAL-TIME IDENTIFICATION OF HIGH PRIORITY TARGETS - PHOTO INTERPRETATION N64-10535 01-14

OUTLINE FOR PHOTO INTERPRETATION COURSES AND SELECTION AND TESTING OF STUDENTS N64-10536 01-14

AERIAL RECONNAISSANCE & PHOTOINTERPRETATION OF MAN MADE AND NATURAL LANDSCAPE CONFIGURATIONS
JPRS-17771 N64-10632 01-12

PHOTOINTERPRETATION ACCURACY AND SPEED AS FUNCTION OF IDENTIFICATION FEATURES, RESOLUTION, CONTRAST, AND SCALE - RECONNAISSANCE
RADC-TDR-63-224 N64-12639 04-01

RAPID PRESENTATION TECHNIQUE FOR IMPROVING TARGET RECOGNITION PERFORMANCE OF PHOTOINTERPRETERS
RADC-TDR-63-421 N64-14108 05-01

CENTER OF MASS OF MOON PRECISELY DETERMINED FROM PHOTOGRAPHIC OBSERVATIONS
MH-TRANS-401 N64-15196 07-05

PHOTOGRAPH INTERPRETATION OF AERIAL PHOTOGRAPHY
RADC-TR-63-482 N64-21848 15-15

AERIAL PHOTOGRAPHY - EXTERIOR ORIENTATION OF TWO OVERLAPPING AIR PHOTOS BY REFERENCE POINT DISTRIBUTION
JPRS-25780 N64-27060 19-15

APPLICATION OF PERCEPTRONS TO AUTOMATIC PHOTOGRAPH

INTERPRETATION
CAL-VE-1446-G-3 N64-30694 22-15

MEASURABLE PHOTOGRAPHIC PARAMETER RELATION TO INFORMATION CONTENT EXTRACTED FROM AERIAL RECONNAISSANCE PHOTOGRAPH
CAL-VE-1667-G-1 N64-31706 23-15

ERRORS IN MEASUREMENTS OF AURORAL POSITIONS BASED ON ALL-SKY PHOTOGRAPHS N64-32719 24-12

IMAGE INTERPRETATION CELL TO GENERATE MILITARY INTELLIGENCE DATA IN FORM OF FLASH AND IMMEDIATE PHOTOGRAPH INTERPRETATION REPORTS
SME-AA-101 N64-33294 24-15

ACCURACY OF TARGET RECOGNITION BY VISUAL PHOTOGRAPH INTERPRETATION OF OBLIQUE FORMS
RADC-TDR-64-144 N64-33536 24-14

PHOTOGRAPHIC APPARATUS
SPOT DIAGRAM METHOD OF PHOTOGRAPHIC LENS IMAGE EVALUATION N64-10299 01-23

OPTICAL, LIGHTING, AND PHOTOGRAPHIC EQUIPMENT FOR SODIUM REACTOR EXPERIMENT
NAA-SR-6387 N64-19894 12-06

AERIAL PHOTOGRAMMETRY WITH COLOR AND SPECTROZONAL PHOTOGRAPHIC MATERIALS
FTD-TT-63-827/1 N64-21957 15-15

MASKING FOR FUNCTIONAL ELECTRONIC BLOCKS - PHOTOGRAPHIC APPARATUS
NCR-28-21 N64-22512 15-09

MINIATURE PHOTOGRAPHIC APPARATUS WITH SET CONSTANT FOCUS
FTD-TT-63-1073/1 N64-23439 16-15

FUNCTIONAL OPERATION OF PHOTO SCANNING DEVICE FOR MEASUREMENT OF NUCLEAR TRACKS ON BUBBLE CHAMBER PHOTOGRAPHS
CERN-64-28 N64-26520 18-15

ELECTRONIC AND PHOTOGRAPHIC EQUIPMENT FOR CALIBRATION OF MINITRACK STATIONS
TR-48 N64-29248 21-08

PHOTOGRAPHIC FILM
AERIAL PHOTOGRAPHY FILMS
FTD-TT-63-108/1&2 N64-16415 08-15

SCANNING DEVICE FOR PHOTOGRAPHIC FILM, WITH OUTPUT AS DIGITAL DATA FOR COMPUTER PROCESSING
UCRL-7619 N64-17291 09-15

DATA REDUCTION BY COHERENT OPTICAL LIGHT SYSTEM WITH PHOTOGRAPHIC FILMS
REPT.-4594-40-R N64-18871 11-23

DENSITY DISCRIMINATION - SELECTION OF PARAMETERS FOR DETERMINING PERCENTAGE OF CLOUD COVER RECORDED ON AERIAL RECONNAISSANCE FILM
RADC-TDR-64-37 N64-20026 13-09

PHOTOGRAPHIC PLATES OF PLANETARY NEBULAE USED AS IDENTIFICATION CHARTS N64-26570 18-05

REEVALUATION OF PHOTOGRAPHIC PLATES OF MARS
NASA-CR-58354 N64-28841 20-05

CALIBRATION OF PHOTOGRAPHIC FILM DOSIMETERS FOR HIGH ENERGY GAMMA RADIATION
AERE-R-4168 N64-30874 22-15

IN-FLIGHT FILM PROCESSING TECHNIQUES
AL-TDR-64-6 N64-31044 22-15

COHERENT LIGHT-RECORDING TECHNIQUE TO ACHIEVE HIGH PACKING DENSITIES USING PHOTOGRAPHIC AND THERMOPLASTIC FILMS
RADC-TDR-64-203 N64-31909 23-25

PHOTOGRAPHIC MEASUREMENT
PHOTOTELEGRAPHIC APPARATUS FOR WEATHER MAP RECEPTION, AND OCEAN BOTTOM RELIEF RECORDING USING FATHOMETER
JPRS-17712 N64-10486 01-21

CHEMICAL PHOTOGRAPHIC MEASUREMENTS BY USING POTENTIAL OF OXIDATION-REDUCTION REACTIONS N64-16210 08-15

PHOTOGRAPHIC MEASUREMENT OF DIAMETER OF VENUS
NASA-CR-56364 N64-23992 16-29

PHOTOGRAPHIC RECORDING
PHOTOGRAPHIC RECORDING OF RAPIDLY CHANGING MASS SPECTRA
DASA-1453 N64-21097 14-13

PHOTOGRAPHIC RECORDINGS OF MARS
NASA-CR-51173 N64-22779 16-05

SYSTEM FOR VISUAL DISPLAY AND PHOTOGRAPHIC RECORDING OF MULTIPLEXED SIGNALS FROM MULTICHANNEL ELECTROENCEPHALOGRAPH
FTD-TT-63-1190/1&2&4 N64-26212 18-16

PHOTOGRAPHY
SA AERIAL PHOTOGRAPHY
SA ALL-SKY PHOTOGRAPHY
SA ASTRONOMICAL PHOTOGRAPHY
SA ELECTRO-OPTICS
SA FRACTOGRAPHY
SA HELIOGRAPHY
SA INFRARED PHOTOGRAPHY
SA LUNAR PHOTOGRAPHY
SA PHOTOGRAMMETRY
SA PHOTOMICROGRAPHY
SA RADAR PHOTOGRAPHY
SA RADIOGRAPHY
SA SATELLITE PHOTOGRAPHY
SA SCHLIEREN PHOTOGRAPHY
SA SHADOW PHOTOGRAPHY
SA SPACE PHOTOGRAPHY
SA STEREOSCOPIC PHOTOGRAPHY
FACTORS AFFECTING PHOTOGRAPHIC CHANGE DISCRIMINATION N64-10533 01-14

PHOTOGRAPHIC STUDY OF VENUS, MARS, JUPITER, SATURN, MOON, ASTEROID 1580, & OTHER OBJECTS
NASA-CR-52850 N64-11294 02-05

HIGH PRECISION, HIGH RESOLUTION TRACER PHOTOGRAPHY FOR LOW NOISE, STEADY LAMINAR AIR FLOW MICROSCOPIC FLUCTUATIONS AT WALL BOUNDARY
TECH. REPT.-17 N64-11301 02-02

HYPERSONIC CONE WAKE VELOCITIES FROM STREAK PICTURES
BSD-TDR-63-199 N64-12233 03-02

MANUAL FOR OPERATIONAL DOCUMENTARY PHOTOGRAPHY REACTOR SAFETY PROGRAM
IDO-10037, REV. 1 N64-14412 06-15

STREAK-FRAMING PHOTOGRAPHY OF HYPERVELOCITY PARTICLES
TD-B-63-89 N64-14829 06-15

PHOTOGRAPHIC AND VISUAL OBSERVATIONS MADE AT NEW MEXICO STATE UNIVERSITY OBSERVATORY N64-16327 08-14

HIGH VELOCITY CUMULATIVE JETS - STRUCTURAL ANALYSIS BY SLOW MOTION PHOTOGRAPHY AND LUMINOSITY SPECTRA
FTD-TT-63-566/1&2&4 N64-16378 08-11

HIGH RESOLUTION PHOTOGRAPHY OF SUNSPOT UMBRAS WITH STRATOSCOPE I TELESCOPE N64-16677 08-28

SOLID STATE SANDWICH-TYPE IMAGE INTENSIFIER CONSISTING OF PHOTOCONDUCTIVE LAYER AND PHOTOGRAPHIC EMULSION IN ELECTRIC FIELD
AFCRL-64-133 N64-18598 11-23

AERIAL DELIVERY OF PHOTOGRAPHIC PRINTS FROM F-100 AND F-105 AIRCRAFT
TAC-TR-63-32 N64-21394 14-13

BALLISTIC CAMERA PLATES FOR MEASURING PHOTOGRAPHIC EMULSION SHIFT OF OBJECTS IN SPACE
MTC-TDR-64-4 N64-22511 15-13

PHOTOGRAPHY & VISUAL OBSERVATION USING HIGH FREQUENCY CURRENTS

FTD-TT-62-1549/1&2&4 N64-23286 16-09

REFLECTANCE OF WHITE PHOTOGRAPHIC PAPER
NASA-CR-56456 N64-24052 16-19

TRANSVERSE MODES OF RUBY LASERS USING BEAT FREQUENCY DETECTION AND FAST PHOTOGRAPHY
AFCRL-64-434 N64-27473 19-25

ELECTROPHOTOMETRIC, PHOTOGRAPHIC, AND POLARIMETRIC OBSERVATIONS OF MARS SURFACE AND ATMOSPHERE
Y-R-427 N64-28868 20-05

PHOTOGRAPHIC OPTICAL SEMIDIAMETER OF VENUS
NSG-142-61 N64-28975 20-05

PHOTOGRAPHIC AND VISUAL OBSERVATIONS OF MOON AND PLANETS
NASA-CR-58617 N64-28997 20-29

PHOTOELASTIC MEASUREMENTS WITH MONOCHROMATIC PHOTOGRAPHY
RSIC-233 N64-29307 21-33

NEUTRON SPECTRA MEASUREMENT BY SEMIAUTOMATIC SCANNING OF RECOIL PROTONS IN PHOTOGRAPHIC EMULSIONS
AWRE-NR-5163 N64-30890 22-15

FIREFLY PROJECT - PHOTOGRAPHIC AND PHOTOMETRIC OBSERVATION OF WIND VELOCITY IN UPPER ATMOSPHERE FROM CHEMICAL PAYLOAD - DATA REDUCTION
N64-31379 23-12

PHOTOGRAPHY AND PHOTOMETRY FROM LUMINOUS CHEMICAL RELEASES - PROJECT FIREFLY N64-31380 23-12

IONOSPHERIC TEMPERATURE FROM FIREFLY PROJECT PHOTOGRAPHY OF UPPER ATMOSPHERE EXPLOSIONS
N64-31396 23-12

PHOTOGRAPHIC AND OPTICAL INSTRUMENTATION FOR SNAP-2/10A-3 DESTRUCTIVE TESTING
EGEG-1183-1071 N64-31627 23-15

STABILIZATION OF HYPERSENSITIZED PHOTOGRAPHIC EMULSIONS
FTD-TT-63-1006/1&4 N64-31638 23-07

SPARK CHAMBER AND DEFLECTION MAGNET TO PHOTOGRAPH TRACKS OF COSMIC RAY ELECTRONS AT BALLOON ALTITUDES N64-32224 23-15

STAR BACKGROUND TO REDUCE POSITION ERROR IN PHOTOGRAPHIC GEODETIC OBSERVATIONS
N64-32385 23-12

ULTRAVIOLET SPECTROSCOPY AND PHOTOGRAPHY USING SPECTRALLY SELECTIVE IMAGE CONVERTER
NASA-TM-X-55072 N64-32857 24-15

PHOTOGRAPHIC EMULSION RESPONSE TO FAST NEUTRONS FOR NEUTRON RADIOGRAPHY
USNRDL-TR-766 N64-32871 24-23

PHOTOIONIZATION
APPLICATION OF QUANTUM DEFECT METHOD TO PHOTOIONIZATION CALCULATIONS
AROD-2810-12 N64-11755 03-23

K-BAND PHOTOIONIZATION CROSS-SECTION OF GASEOUS HELIUM MEASURED BY SOFT X-RAYS
AROD-2810-13 N64-12601 04-19

CHARGE TRANSFER, ION DISSOCIATION, AND PHOTO-IONIZATION STUDIED WITH MODIFIED TIME-OF-FLIGHT MASS SPECTROMETER
AFCRL-63-708 N64-13083 04-15

ROCKET-BORNE NITRIC OXIDE DETECTOR USING SELECTIVE PHOTOIONIZATION
DASA-1419 N64-14010 05-12

VACUUM ULTRAVIOLET PHOTOIONIZATION DETECTOR
NASA-RP-32 N64-14858 06-15

PHOTOIONIZATION CROSS SECTION OF MOLECULAR HYDROGEN N64-17009 09-23

CROSS SECTIONS FOR PHOTOIONIZATION OF ATOMIC OXYGEN BY RADIATION USING HARTREE-FOCK CALCULATION
NASA-CR-55949 N64-17689 09-23

CALCULATION OF ATOMIC PHOTOIONIZATION CROSS SECTIONS FOR REAL GASES
AID-P-64-12 N64-18385 10-23

PHOTOIONIZATION OR BOUND FREE CONTINUUM OF NEGATIVE OXYGEN IONS
R64SD28 N64-21249 14-23

HARTREE-FOCK APPROXIMATION FOR FINAL TRANSITION STATE INVOLVING EJECTION OF OUTER OR INNER SHELL ELECTRON DURING PHOTOIONIZATION OF OXYGEN
NASA-CR-66 N64-24398 17-23

PHOTOIONIZATION CROSS SECTIONS OF RARE GASES
NASA-CR-68 N64-24399 17-23

PHOTOIONIZATION, ELECTRON-TRAPPING, AND PHOTOCONDUCTION IN GLASSES
AFCRL-64-298 N64-25374 17-25

PHOTOIONIZATION ELECTRONS OF ORGANIC COMPOUNDS
FTD-TT-64-296/1&2 N64-26115 18-23

PHOTOIONIZATION AHEAD OF STRONG SHOCK WAVES
N64-26337 18-11

QUANTUM MECHANICAL CALCULATIONS FOR FINAL STATES IN PHOTOIONIZATION
AROD-2810-14 N64-26810 18-23

PHOTOIONIZATION STUDIES USING MASS SPECTROMETERS
AFCRL-64-106 N64-28774 20-07

QUANTUM DEFECT METHOD FOR CALCULATING CROSS SECTIONS OF PHOTOIONIZATION OF NITROGEN AND OXYGEN ATOMS AND FIRST IONS OF OXYGEN AND NITROGEN
TR-64-028 N64-31132 22-23

ABSOLUTE PHOTOIONIZATION AND ABSORPTION CROSS SECTIONS OF OXYGEN AND NITROGEN
ATN-63/9218/-4 N64-32657 23-11

ABSORPTION & PHOTOIONIZATION CROSS SECTIONS OF ATMOSPHERIC GASES
NASA-CR-59021 N64-32895 24-28

PHOTOLUMINESCENCE
PHOTOLUMINESCENCE OF BENZOYLACETONATES OF EUROPIUM AND SAMARIUM
STL-9990-6399-KU-000 N64-12088 03-23

THERMAL AND OPTICAL EXTERNAL QUENCHING OF PHOTOLUMINESCENCE IN POTASSIUM IODIDE-THALLIUM SYSTEMS
FTD-MT-63-29/1&2 N64-18666 11-25

METHODS OF MEASURING SURFACE TEMPERATURE BY PHOTOLUMINESCENCE N64-20424 13-33

PHOTOLYSIS
PHOTOLYSIS AND PYROLYSIS OF 4-METHYL-4-METHOXY-2-PENTANONE
TOR-269/4240-201-1 N64-12581 04-07

MOLECULAR NITROGEN PRODUCTION FROM PHOTOLYSIS OF VARIOUS NITRIC OXIDES IN HYDROGEN LAMP
NASA-CR-55308 N64-14292 06-07

FLASH PHOTOLYSIS OF NITROGEN TRIFLUORIDE USING SAMPLE CELL AND FLASH TUBE ARRANGEMENT
AD-430906 N64-16498 08-07

MODIFICATION OF FLASH PHOTOLYSIS APPARATUS FOR USE IN VACUUM ULTRAVIOLET STUDY OF NITROGEN FLUORIDES
TM-1496 N64-16499 08-07

VACUUM ULTRAVIOLET PHOTOLYSIS OF CARBON DIOXIDE USING KRYPTON, XENON, AND HYDROGEN LIGHT SOURCES
NASA-CR-53748 N64-19173 11-07

EFFECT OF ORGANIC LIQUID /DIMETHYLSULFOXIDE/ AND CAFFEINE ON PHOTOLYTIC ACTIVITY OF CHLOROPLASTS IN SOLUTION
NASA-CR-56130 N64-20705 13-16

PHOTOLYSIS OF NITRIC OXIDE IN PRESENCE OF OLEFINS
SSD-TDR-64-82 N64-22283 15-07

PHOTOLYSIS OF NITRIC OXIDE
SSD-TDR-64-105 N64-22684 15-23

CONCENTRATION OF EXCITED OXYGEN FORMED IN FLASH PHOTOLYSIS OF NITROGEN DIOXIDE N64-24145 16-19

ULTRAVIOLET PHOTOLYSIS OF ORGANIC COMPOUNDS
R63SD15 N64-24936 17-19

DEPOSITION OF THIN DIELECTRIC FILMS ON METALLIC SURFACES BY ULTRAVIOLET PHOTOLYSIS OF ORGANIC MONOMER VAPORS
RC-900 N64-25600 17-09

FORMATION OF THIN DIELECTRIC FILM BY ULTRAVIOLET PHOTOLYSIS
RC-946 N64-25664 17-09

ELECTRONIC ABSORPTION SPECTRUM OF NITROGEN-FLUORIDE RADICAL PRODUCED BY PHOTOLYSIS OF NITROGEN DIFLUORIDE
EXP-452/223/ N64-27773 19-07

GAS CHROMATOGRAPHIC ANALYSIS OF HIGH PURITY PHOSGENE-ETHYLENE MIXTURES - PHOTOLYSIS
SSD-TDR-64-154 N64-31981 23-07

WATER PHOTOLYSIS AND OXYGEN PRODUCTION FROM ILLUMINATION OF CHLOROPLAST IN PRESENCE OF SUITABLE ANODE ACCEPTOR
NASA-CR-59220 N64-33124 24-16

HIGH INTENSITY PHOTOLYSIS OF AZO COMPOUNDS USING SUPER PRESSURE MERCURY LAMP AS LIGHT SOURCE
GNE/PHYS-64-18 N64-33708 24-07

PHOTOMETER
SPECTROPHOTOMETER ATTACHMENT FOR DETECTION OF EXTRATERRESTRIAL LIFE
NASA-CR-52073 N64-10169 01-16

MULTIPLIER-TYPE PHOTOMETER WITH WIDE DYNAMIC RANGE FOR ABSORPTION SPECTROSCOPY N64-10949 02-15

LUNAR LUMINESCENCE IN MARE SERENITATIS, RAY NEAR BESSEL REGION, AREA EAST OF PLATO, AND ARISTARCHUS MEASURED WITH SPECTROPHOTOMETER
AFCRL-63-743 N64-11454 03-05

STELLAR PHOTOMETER AND SPECTROMETER FOR INFRARED REGION N64-13688 05-15

PERFORMANCE TESTING OF UVISPEK SPECTROPHOTOMETER WITH ALKALINE SOLUTION OF POTASSIUM CHROMATE
AEET/ANAL/18 N64-15722 07-15

BLUE DAYGLOW EMISSION OF NITROGEN ION OBSERVED WITH PHOTOMETER
NASA-TN-D-2249 N64-18081 10-12

TIME-DISCRIMINATING SPECTROPHOTOMETER FOR PLASMA N64-18481 10-23

COMPENSATING PHOTOMETER TO REGISTER AND MEASURE TRANSPARENCY OF ATMOSPHERE
FTD-MT-63-15/1&2 N64-18746 11-21

MAGNETOMETER, PHOTOMETER, AND EARTH CURRENT OBSERVATIONS IN SWEDEN
AFCRL-64-245 N64-21514 15-12

EVALUATING THERMAL RADIATIVE PROPERTIES OF SURFACES - SPECTROPHOTOMETER WITH INTEGRATING-SPHERE REFLECTANCE ATTACHMENT
RAE-TM-SPACE-28 N64-21738 15-13

MICROPHOTOMETER USED AS RADIATION RECEIVER IN SPECTRAL ANALYSIS N64-23190 16-19

SPECTROGRAPHS, PHOTOMETERS, AND EVENT CAMERAS FOR SNAP REENTRY STUDIES
SC-RR-64-968 N64-27038 19-15

PHOTOMETER MEASUREMENTS OF CONTINUUM RADIATION EMITTED FROM HIGH TEMPERATURE AIR IN EQUILIBRIUM REGION BEHIND INCIDENT AND REFLECTED SHOCK WAVES
AVCO-EVERETT RES. NOTE-486 N64-32072 23-11

NIGHT-TIME PHOTOMETER MEASUREMENTS OF OZONE CONCENTRATION AT HIGH ALTITUDE
NASA-TM-X-55101 N64-33630 24-12

ABNORMAL CHARACTERISTICS OF INTERFERENCE FILTERS FOR USE AS STANDARDS IN WAVELENGTH CALIBRATION OF SPECTROPHOTOMETERS
NAVWEPS-8550 N64-33753 24-15

SPECTROPHOTOMETRIC DATA FOR DETERMINING SUCCESSIVE FORMATION CONSTANTS OF MIXED COMPLEXES N64-34007 24-07

PHOTOMETRY
SA ASTRONOMICAL PHOTOMETRY
SA SPECTROPHOTOMETRY
ABSOLUTE TWO-COLOR PHOTOMETRY OF GALAXY NGC 7331 N64-10028 01-05

PROBLEMS AND METHODS OF STUDYING NOCTILUCENT CLOUDS BY VISUAL AND PHOTOMETRIC MEANS N64-10063 01-21

PHOTOMETRIC CONDITIONS IN RESPECT TO VISIBILITY OF NOCTILUCENT CLOUDS N64-10065 01-21

BETA LYRAE - THEORY OF PHOTOMETRIC AND SPECTROGRAPHIC BEHAVIOR WITH MODEL
NASA-RP-78 N64-10668 01-16

PHOTOMETRIC STUDIES OF COMPLEX SURFACES WITH APPLICATIONS TO LIGHT SCATTERING BY LUNAR SURFACE N64-11393 02-29

EXTRACTION-PHOTOMETRIC DETERMINATION OF PERCHLORATES IN PRESENCE OF CHLORATES
RSIC-90 N64-11752 03-07

TELEVISION, PHOTOGRAMMETRY, PHOTOMETRY, AND RADIOMETRY ADAPTABLE TO SPACE RECONNAISSANCE - LITERATURE SURVEY
NASA-CR-53045 N64-14890 06-08

CYTOPHOTOMETRIC METHOD FOR MEASURING HEMOGLOBIN AND NUCLEIC ACID IN ERYTHROCYTE PRECURSORS N64-15214 07-16

ABSOLUTE PHOTOMETRY OF NOCTILUCENT CLOUDS
AID-T-64-7 N64-17666 09-21

SPECTRAL CORRECTION AND PRECISION OF PHOTOELECTRIC PHOTOMETRY N64-19884 12-23

RUBIDIUM IN AGRICULTURALLY IMPORTANT MATERIALS THROUGH ATOMIC ABSORPTION - FLAME PHOTOMETRY
NIJS-R-425 N64-21698 15-16

SPECTROELECTROPHOTOMETRY OF HYDROGEN EMISSION IN AURORAE N64-21898 15-12

SPECTROELECTROPHOTOMETRY OF NITROGEN MOLECULES, NITROGEN IONS, OXYGEN IODIDE, & NITROGEN IODIDE EMISSIONS IN AURORAE N64-21899 15-12

PHOTOMETRIC FUNCTIONS & PROPERTIES OF LUNAR SURFACE N64-22063 15-29

TWILIGHT SKY & NOCTILUCENT CLOUD PHOTOMETRIC OBSERVATION N64-23669 16-12

APPLICATION OF PHOTOMETRY TO ELECTRONIC DISPLAY SYSTEM
AFCRL-64-271 N64-23877 16-09

PHOTOELECTRIC PHOTOMETER AT BOSSCHA OBSERVATORY N64-27206 19-15

NARROW AND WIDEBAND PHOTOMETRY POLARIZATION OBSERVATIONS OF AIRGLOW AND ZODIACAL LIGHT
NASA-CR-56881 N64-27274 19-12

ELECTROPHOTOMETRIC, PHOTOGRAPHIC, AND POLARIMETRIC OBSERVATIONS OF MARS SURFACE AND ATMOSPHERE
T-R-427 N64-28868 20-09

PHOTOELECTROMETER FOR MEASUREMENT OF SMALL VOLTAGES N64-29131 21-15

SPECTROGRAPHIC-PHOTOMETRIC DETERMINATION OF CESIUM IN HIGH PURITY PLUTONIUM METAL - CONTAMINATION PRODUCED BY ELECTROREFINING PROCESS
RFP-420 N64-30756 22-07

PHOTOGRAPHY AND PHOTOMETRY FROM LUMINOUS CHEMICAL RELEASES - PROJECT FIREFLY N64-31380 23-12

PHOTOMETRY OF NIGHT SKY - EFFECTS OF INTEGRATED STARLIGHT, ZODIACAL LIGHT, AND AIRGLOW ON LIGHT INTENSITY
NASA-CR-59011 N64-33214 24-12

CONVERSION FROM VISUAL BRIGHTNESS SCALE TO PHOTOMETRIC DATA FOR LUNAR FORMATIONS
RSIC-273 N64-33422 24-05

QUANTITATIVE SPECTRAL CLASSIFICATION OF STARS THROUGH PHOTOELECTRIC MEASUREMENTS IN NARROW BANDS N64-33680 24-05

PHOTOMULTIPLIER
SA ELECTRON TUBE
CF PHOTOTUBE
MULTIPLIER-TYPE PHOTOMETER WITH WIDE DYNAMIC RANGE FOR ABSORPTION SPECTROSCOPY N64-10949 02-15

PULSE HEIGHT MAINTAINING FLEXIBLE LIGHT PIPE COUPLING BETWEEN SCINTILLATOR AND PHOTOMULTIPLIER TUBE
UR-875-18 N64-12388 03-23

MODULATION OF PHOTOMULTIPLIER AMPLIFICATION FACTOR IN MEASUREMENT OF WEAK LIGHT FLUXES
NASA-TT-F-137 N64-14754 06-23

OPTICAL SPACE COMMUNICATION SYSTEM - PERFORMANCE OF PHOTOMULTIPLIERS AND LASER PROPAGATION
NASA-CR-53467 N64-18132 10-08

PHOTOMULTIPLIER IMPROVEMENT - LITHIUM FLUORIDE THERMOLUMINESCENT DOSIMETER FOR DETECTION OF AURORAL ELECTRONS
AFCRL-64-166 N64-20148 13-15

PHOTOMULTIPLIER AND LIMITS OF RESOLVING TIMES DUE TO SCINTILLATOR CHARACTERISTICS - FAST DELAYED COINCIDENCE TECHNIQUE N64-23615 16-23

PHOTOMULTIPLIER AS DETECTOR IN DIRECT OPTICAL SYSTEM
EG&G-B-2764 N64-25700 17-09

DEVELOPMENT OF PHOTOMULTIPLIER USING LARGE DIAMETER PHOTOCATHODE AND VENETIAN BLIND TYPE OF ELECTRON MULTIPLIER FOR HIGH CURRENT OPERATION
AD-440103 N64-25982 18-09

USE OF ELECTRONIC SYSTEM OF PHOTOMULTIPLIER AS AMPLIFIER OF WEAK ION CURRENT IN MASS SPECTROMETER INSTRUMENTS N64-26968 19-15

MODIFICATIONS TO PROCESSING EQUIPMENT AND FABRICATION OF PHOTODIODE AND PHOTOMULTIPLIER PARTS
IR-1 N64-29686 21-17

EFFECT OF GAMMA AND X-RADIATION ON MULTIPLIER PHOTOTUBES
USNRDL-TR-763 N64-29875 21-23

ELECTRON SPECTRA IN PHOTOMULTIPLIERS AND CHARGE SENSITIVE AMPLIFIER FOR LOW NOISE OPERATION USING FIELD EFFECT TRANSISTOR
QTSR-2 N64-32452 23-09

RAPID DISCRIMINATOR FOR USE WITH PHOTOMULTIPLIER
LNF-64/37 N64-32742 24-15

PHOTON
CF ELEMENTARY PARTICLE
CF LIGHT
CF X-RAY
HIGH ENERGY ELECTRON-PHOTON CASCADE SHOWER CALCULATIONS BY IBM 7090 - MONTE CARLO METHOD N64-12532 04-23

ANGULAR DISTRIBUTION OF PHOTOFISSION FRAGMENTS OF THORIUM RELATIVE TO PHOTON BEAM N64-13396 04-23

INTERFERENCE PROPERTIES OF PHOTONS
AFCRL-63-788 N64-13665 05-23

MULTIPLE SCATTERING OF PHOTONS BY MERCURY ATOMS
E-T-F-63-3, PT. 3 N64-13863 05-29

DIFFUSION OF THERMAL NEUTRONS AND PHOTONS
MATT-231 N64-18340 10-24

GAPLSN - PROGRAM FOR SOLVING ONE-DIMENSIONAL NEUTRON AND PROTON TRANSPORT PROBLEMS
GA-4972 N64-19714 12-20

MONOCHROMATIC PHOTON PRODUCTION BY POSITRON ANNIHILATION IN LIGHT ELEMENTS
LNF-64/2 N64-23223 16-23

DETECTION OF SCINTILLATION PHOTONS WITH PHOTODIODES N64-24009 16-23

MONTE CARLO CODE FOR DESCRIBING TIME-DEPENDENT PHOTON TRANSPORT IN RESISTORS & CAPACITORS UNDER TRANSIENT GAMMA RADIATION EFFECT
AFWL-TDR-64-37 N64-26208 18-23

PHOTONS IN MAGNETIC FIELDS
NASA-RP-285 N64-27359 19-24

INTERSTELLAR TRAVEL AT LIGHT SPEED VELOCITY USING PHOTON ROCKETS
FTD-TT-63-1132/1&2&4 N64-27838 19-29

STABILITY OF IONIZATION FRONTS ALLOWING FOR ABSORPTION OF IONIZING PHOTONS IN H REGION N64-30082 21-23

INTERACTIONS OF HIGH ENERGY PHOTONS AND ELECTRONS WITH MATTER IN GAS PHASE AND MASS CHARGE SPECTRA MEASUREMENTS PRODUCED BY X-RAY & HIGH ENERGY ELECTRON IONIZATION
NL-TDR-64-169 N64-31893 23-07

PHOTODISINTEGRATION OF DEUTERON BY POLARIZED PHOTON BEAM
HEPL-329 N64-32058 23-23

USE OF ANNIHILATION FOR SETTING IN MOTION PHOTON ROCKETS - NASCENT BEAM FOCUSING USING ELECTRIC AND MAGNETIC FIELDS
NASA-TT-F-8969 N64-33377 24-27

PHOTOPRODUCTION
KINEMATICS OF PHOTOPRODUCTION IN HYDROGEN OF COMPOUND SYSTEM
LNF-63/40 N64-13047 04-23

DETERMINATION OF CHARACTER OF HIGHER RESONANCES IN PION-PHOTOPRODUCTION AND PROTON COMPTON EFFECT BY USING POLARIZED GAMMA RAYS
LNF-63/66 N64-13176 04-23

MUON PAIR PHOTOPRODUCTION IN SYNCHROTRON
RT/F1/63/37 N64-13207 04-23

PHOTOPRODUCTION AND NEUTRAL DECAY MODES OF ETA-MESON PARTICLE
LNF-64/6 N64-23224 16-23

PHENOMENOLOGICAL MODEL APPLIED TO KAON-SIGMA HYPERON PHOTOPRODUCTION
TH-63 N64-28932 20-23

PHOTOPRODUCTION OF BARYONS & MESONS AND UNITARY SYMMETRY
UR-875-52 N64-33006 24-23

PHOTOSYNTHESIS
SA CHLOROPHYLL
CF METABOLISM
CF PHOTOCHEMISTRY
AUTOMATIC CONTROL OF GREEN PLANT SYSTEMS FOR PHOTOSYNTHETIC AIR REGENERATION - MANNED SPACE FLIGHT USE
JPRS-21610 N64-10201 01-16

PIGMENTS IN PURPLE AND GREEN PHOTOSYNTHESIZING BACTERIA - LUMINESCENT SPECTRA

FTD-TT-63-867/1&2 N64-12628 04-16

PHOTOSYNTHETIC ELECTRON TRANSPORT
N64-13199 04-16

RELATIONS BETWEEN OXIDATION, RESPIRATION, LIGHT INTENSITY, AND OXYGEN PRODUCTION IN GREEN PLANTS
N64-13370 04-16

PHOTOSYNTHETIC GAS EXCHANGERS FOR CLOSED ECOLOGICAL SYSTEM N64-13715 05-16

TEMPERATURE DEPENDENCE OF METABOLIC PROCESSES IN PHOTOSYNTHETIC CELLS N64-15307 07-16

GROWTH MEASUREMENTS AND PHOTOSYNTHESIS STUDY OF ANGIOSPERMS
AMRL-TDR-63-131 N64-18773 11-16

PURPLE SULFUR, PURPLE NONSULFUR, AND GREEN SULFUR PHOTOSYNTHESIZING BACTERIA
JPRS-24319 N64-18975 11-16

BIOCHEMISTRY OF PHOTOSYNTHESIS AND CARBOHYDRATE METABOLISM
UCRL-11215 N64-19463 12-01

ELECTRONIC POLARIZABILITY CHANGES OF EXCITED ELECTRONS IN PHOTOSYNTHETIC AND MODEL SYSTEMS
N64-19465 12-16

CHANGES IN CONCENTRATION OF CARBON-14 LABELED COMPOUNDS IN PHOTOSYNTHESIZING CHLORELLA DUE TO ADDITION OF IODOACETIC ACID N64-19468 12-07

LIPOIC ACID EFFECT ON REDUCTION OF CARBON DIOXIDE DURING PHOTOSYNTHESIS N64-19469 12-07

PHOTOSYNTHETIC VARIABILITY IN ALGAE CELLS
N64-19495 12-16

EFFECT OF LIGHT INTENSITY ON USE OF CARBON DIOXIDE AND ORGANIC COMPOUNDS DURING PHOTOSYNTHESIS OF CHLOROPSEUDOMONAS ETHYLICUM N64-23433 16-16

INCREASE IN PHOTOSYNTHETIC PRODUCTIVITY OF CHLORELLA CULTURE N64-23775 16-16

CAPILLARY-MANOMETRIC AND POLAROGRAPHIC METHODS FOR MEASURING RATE OF PHOTOSYNTHESIS OF CHLORELLA
N64-23776 16-16

PHOTOSYNTHESIS OF HIGHER PLANTS AND MINERAL NUTRITION N64-23782 16-16

EFFECT OF LIGHT ON GROWTH AND PHOTOSYNTHESIS OF CHLORELLA
FTD-TT-64-246/1&2&4 N64-26113 18-16

BIOPHYSICS - THERMODYNAMICS OF PHOTOSYNTHESIS, AND TRANSITION PROBABILITIES IN MOLECULES WITH CONJUGATE SYSTEM OF PI-ELECTRONS
JPRS-25733 N64-28309 20-16

THERMODYNAMICS OF PHOTOSYNTHESIS
N64-28310 20-16

CARBOXYLATION MECHANISMS IN PHOTOSYNTHESIS - PRODUCTION OF GLYCOLLATE FROM LABELLED GLUCOSE AS FUNCTION OF CARBON DIOXIDE PARTIAL PRESSURE
ASR-3 N64-30570 22-16

PIGMENTS FOUND IN PHOTOSYNTHETIC MICROORGANISMS, AND ELECTRON SPIN RESONANCE SIGNALS
AD-602394 N64-32295 23-16

QUINONES IN PHOTOSYNTHETIC REACTIONS OF ISOLATED CHLOROPLASTS
AFCRL-64-760 N64-33104 24-16

PHOTOSYNTHETIC RESEARCH - PHOTOREACTIVATION, OXYGEN EXCHANGE, PHOSPHORYLATION AND DIFFERENCE SPECTROSCOPY
NASA-CR-59204 N64-33211 24-16

ENHANCEMENT DEPENDENCE ON SHORT WAVE AND FAR RED ILLUMINATIONS - PHOTOSYNTHESIS RATES
N64-33261 24-16

ENHANCEMENT OF PHOTOSYNTHESIS OF CHLORELLA PYRENOIDOSA AS FUNCTION OF FAR-RED AND SHORT WAVE ILLUMINATIONS N64-33456 24-16

PHOTOTHERMOTROPIC MATERIAL
EFFECTS OF IMPURITIES ON PHOTOTHERMOTROPIC PROPERTIES OF ALKALINE EARTH TITANATES
NASA-TN-D-2306 N64-21270 14-07

PHOTOTROPISM
THERMOPHOTOTROPIC PHENOMENOLOGICAL MODEL
NASA-TR-R-184 N64-12694 04-23

MECHANISM FOR THERMOPHOTOTROPIC BEHAVIOR IN PEROVSKITE-STRUCTURED ALKALINE EARTH TITANATES
NASA-TN-D-2258 N64-17296 09-23

PHOTOTUBE
SA ELECTRON TUBE
SA PHOTOMULTIPLIER
CF AMPLIFIER
WIDEBAND MICROWAVE PHOTOTUBE FOR LASER COMMUNICATIONS SYSTEMS N64-12568 04-25

TRAVELING-WAVE PHOTOTUBE CAPABLE OF PHOTOMIXING OPTICAL SIGNALS OF DIFFERING FREQUENCY CONTENT
AFCRL-63-379 N64-12676 04-09

PERFORMANCE OF ELECTRICAL CIRCUIT WITH VACUUM PHOTOTUBE AT REDUCED VOLTAGE-SUPPLYING CURRENT TO INCANDESCENT LAMP N64-13567 05-09

LOW POWER, LOW NOISE PHOTOTUBE AMPLIFIER
TR-63-73 N64-24093 16-09

TRANSVERSE WAVE PHOTOTUBE AND BIREFRINGENT DISCRIMINATOR IN LIGHT FREQUENCY MODULATION DETECTION
IER-5 N64-31705 23-23

PHOTOVOLTAGE
INSTALLATION OF SOLAR CELLS ON PHOTOVOLTAIC CONCENTRATING PANELS
NASA-CR-56777 N64-27886 20-08

PHOTOVOLTAGES IN SILICON AND SILICON CARBIDE FILMS AND ORIGIN FROM TRAP-INDUCED SPACE CHARGE
NASA-RP-315 N64-30608 22-25

PHOTOVOLTAIC CELL
SILICON PHOTOVOLTAIC CELL FOR MEASUREMENT OF TRANSMITTANCE AND REFLECTANCE OF TRANSPARENT MATERIALS FOR SOLAR RADIATION N64-10955 02-15

PHOTOVOLTAIC CELL RESEARCH IN USSR - ENERGY CONVERSION
AID-P-63-20 N64-11453 03-06

CADMIUM SULFIDE THIN FILMS, PROPERTIES OF CADMIUM SULFIDE PHOTOVOLTAIC CELLS, AND MODEL OF IDEAL PHOTOVOLTAIC CELL
NASA-CR-55090 N64-12403 03-06

HIGH-SENSITIVITY SOLID-STATE LIGHT DETECTOR CONSISTING OF GALLIUM ARSENIDE PHOTOVOLTAIC CELL AND FIELD-EFFECT TRANSISTOR
NASA-CR-55164 N64-13068 04-25

PORTABLE THERMOPHOTOVOLTAIC CONVERTER FOR TERRESTRIAL APPLICATION - GERMANIUM PHOTOVOLTAIC CELL AND SILICON CELL FABRICATION & TESTING
TR63-228 N64-13076 04-09

PROPERTIES OF THIN CADMIUM SULFIDE EVAPORATED FILMS FOR PHOTOVOLTAIC CELLS, AND FILM PREPARATION
NASA-CR-55212 N64-13185 04-25

PORTABLE THERMOPHOTOVOLTAIC CONVERTER - GERMANIUM PHOTOVOLTAIC CELLS, REFLECTANCE GONIOMETER, AND HEAT EXCHANGER
TR64-04 N64-15378 07-06

PRODUCTION AND TESTING OF STANDARDIZED THIN FILMS OF CADMIUM SULFIDE, AND EVALUATION OF FILMS FOR PHOTOVOLTAIC CELL USE
NASA-CR-55740 N64-15866 07-06

DEPOSITION OF THIN FILMS OF CADMIUM SULFIDE FOR STUDY AS POSSIBLE PHOTOVOLTAIC CELLS

NASA-CR-55959 N64-15867 07-06

CADMIUM-TELLURIUM MATERIAL FOR SOLAR ENERGY CONVERTERS - PHOTOVOLTAIC CELL RESEARCH N64-19837 12-06

PHOTOMULTIPLIER TUBES AND PHOTOVOLTAIC CELLS FOR USE IN OPTICAL DETECTION SYSTEM
EGEG-B-2711 N64-19900 12-15

HIGH ENERGY PROTON EFFECT ON SILICON PHOTOCELLS
NASA-TT-F-8820 N64-23040 16-06

CADMIUM SULFIDE THIN FILM PHOTOVOLTAIC CELLS
NASA-CR-54108 N64-24845 17-06

CADMIUM TELLURIDE AND GALLIUM ARSENIDE THIN FILM PHOTOVOLTAIC CELLS
QPR-6 N64-24991 17-25

CHANGES IN SILICON PHOTOVOLTAIC CELL PROPERTIES DUE TO SURFACE IRRADIATION N64-29154 21-06

FABRICATION OF RELATIVELY TRANSPARENT GERMANIUM PHOTOVOLTAIC CELL BACKED BY OPTICALLY REFLECTIVE ELECTRODE N64-29170 21-06

FABRICATION OF THIN FILM CADMIUM SULFIDE PHOTOVOLTAIC CELLS BY CHEMICAL SPRAY DEPOSITION
QR-1 N64-29579 21-06

THIN FILM SOLAR CELLS AND SOLAR CELL TESTING - PHOTOVOLTAIC CELLS, RADIATION DAMAGE TO CADMIUM SULFIDE SOLAR CELLS, AND AIRPLANE TESTING OF SOLAR CELLS
NASA-CR-59014 N64-32726 24-06

THEORETICAL EVALUATION OF HETEROJUNCTION PHOTOVOLTAIC CELLS N64-32727 24-06

PHOTOVOLTAIC STANDARD CELLS CALIBRATED TO SPACE CONDITIONS N64-32738 24-06

SPACE-CALIBRATED PHOTOVOLTAIC STANDARD CELLS FOR EXTRAPOLATION OF SHORT-CIRCUIT CURRENT OF PHOTOVOLTAIC SYSTEMS TO SPACE ENVIRONMENT
NASA-CR-59359 N64-33773 24-06

THIN FILM CADMIUM SULFIDE PHOTOVOLTAIC CELLS
NASA-CR-54173 N64-34004 24-25

PHOTOVOLTAIC CONVERSION
P-N JUNCTION PHOTOVOLTAIC CONVERTER YIELD, EFFICIENCY, AND COST
RTD-TDR-63-4125 N64-14295 06-25

THIN-FILM, LARGE AREA, PHOTOVOLTAIC SOLAR ENERGY CONVERTERS
NASA-CR-55298 N64-14849 06-06

PORTABLE THERMOPHOTOVOLTAIC CONVERTER - GERMANIUM PHOTOVOLTAIC CELLS, REFLECTANCE GONIOMETER, AND HEAT EXCHANGER
TR64-04 N64-15378 07-06

PRODUCTION OF THIN FILMS OF CADMIUM SULFIDE, AND IDENTIFICATION & CONTROL OF PROCESSING PARAMETERS TO IMPROVE PHOTOVOLTAIC CONVERSION EFFICIENCY
NASA-CR-55737 N64-15861 07-06

IMPROVING CHARACTERISTICS OF CHEMICALLY SPRAYED THIN FILM PHOTOVOLTAIC CONVERTERS - SOLAR CELLS
ASD-TDR-63-223, PT. 2 N64-16500 08-06

COMPONENTS OF PORTABLE THERMOPHOTOVOLTAIC ENERGY CONVERTER
TR-64-16, FINAL N64-16789 08-06

GROUND BASED SOLAR PHOTOVOLTAIC ENERGY CONVERTERS N64-17379 09-06

THERMOPHOTOVOLTAIC ENERGY CONVERSION SYSTEM USING P-N JUNCTIONS N64-17383 09-06

CADMIUM SULFIDE LARGE AREA THIN FILM PHOTOVOLTAIC SOLAR ENERGY CONVERTER
NASA-CR-55738 N64-17681 09-06

GERMANIUM SEMICONDUCTOR MATERIALS FOR THERMOPHOTOVOLTAIC CONVERTER
P63-242 N64-19389 12-09

THIN FILM LARGE AREA PHOTOVOLTAIC SOLAR ENERGY CONVERTER
NASA-CR-54065 N64-20741 13-06

DECREASE IN SOLAR CELL THICKNESS FOR PHOTOVOLTAIC SOLAR ENERGY CONVERSION SYSTEMS IN SPACE VEHICLES N64-29167 21-06

EVAPORATIVE DEPOSITION OF LARGE AREA THIN FILMS FOR PHOTOVOLTAIC CONVERSION OF SOLAR ENERGY
NASA-CR-54145 N64-29708 21-06

PHOTOVOLTAIC EFFECT
PHOTOVOLTAIC EFFECT STUDY OF HOMOGENEITY OF GERMANIUM
E-T-P-63-1 N64-11936 03-25

PHOTOVOLTAIC EFFECTS IN ORGANIC AND INORGANIC CRYSTALS AND THIN FILMS
AFCRL-63-432 N64-17511 09-25

CONFERENCE ON RADIATION RESISTANCE AND DAMAGE IN SILICON SOLAR CELLS AND PHOTOVOLTAIC DEVICES
NASA-CR-58680 N64-29152 21-06

EFFECT OF SURFACE STATES AND PHOTOVOLTAIC EFFECT ON OXIDE-SEMICONDUCTOR INTERFACE N64-29165 21-06

PHTHALATE
MOLECULAR WEIGHT OF POLYETHYLENETEREPHTHALATE DETERMINED FROM TERMINAL RADICAL
NASA-TT-F-191 N64-12719 04-07

HARDENING PROPERTIES OF POLYVINYL CHLORIDE-DIBUTYL PHTHALATE PLASTISOL BY ELECTRICAL RESISTANCE METHOD
NOLTR-63-250 N64-13828 05-19

BRAGG ANGLES FOR SOFT X-RAY EMISSION LINES USING POTASSIUM ACID PHTHALATE AND RUBIDIUM ACID PHTHALATE ANALYZING CRYSTALS
ML-TDR-64-2 N64-22374 15-25

THERMAL TREATMENT OF POLYETHYLENE TEREPHTHALATE IN VACUUM
NASA-TT-F-8889 N64-23129 16-07

STRUCTURE OF DIALLYL PHTHALATE POLYMERS BY INFRARED SPECTROMETRY N64-24130 16-19

GAMMA RADIATION EFFECTS ON POLYETHYLENE TEREPHTHALATE
NASA-TT-F-9008 N64-27229 19-07

GAMMA RADIATION EFFECTS ON POLYETHYLENE TEREPHTHALATE
NASA-TT-F-9008 N64-27229 19-07

ELECTRIC CONDUCTIVITY OF POLYMERIC PHTHALOCYANINES SYNTHESIZED FROM PYROMELLITIC ACID
T-R-433 N64-33432 24-19

PHYSICAL CHEMISTRY
PHYSICAL CHEMISTRY OF MOLTEN SALTS AND SLAGS
AEC-TR-5948 N64-13946 05-07

PHYSICOCHEMICAL PROPERTIES OF GLASS FIBER
JPRS-19122 N64-17465 09-19

BIOLOGY - DISCUSSION ON CELL-CELL INTERACTIONS, MEMBRANE STRUCTURE, ENZYMATIC REACTIONS, AND PHYSICAL CHEMISTRY OF INTERFACES
NASA-CR-53290 N64-17601 09-16

ISOLATION, CRYSTALLIZATION, AND PHYSICOCHEMICAL PROPERTIES OF BEEF AND CHICKEN ENZYMES - LACTIC DEHYDROGENASES
PUBL.-281 N64-28295 20-16

PHYSICAL ENDURANCE
S WORK CAPACITY

PHYSICAL EXAMINATION
S PERSONNEL SELECTION

PHYSICAL EXERCISE
SA WORK CAPACITY
ELECTROCARDIOGRAMS IN EVALUATING STATE OF ATHLETIC TRAINING AND PHYSICAL TRAINING METHODS
JPRS-22508 N64-12142 03-16

ASCORBIC ACID PROPHYLAXIS AND TREATMENT FOR ILLNESS, TRAUMA, EXPOSURE TO COLD WEATHER, AND EXTREME PHYSICAL EXERCISE
AD-429526 N64-25323 17-16

MONITORING ELECTROCARDIOGRAMS ON ACTIVELY EXERCISING SUBJECTS
SAM-TDR-64-38 N64-31050 22-16

MUSCULOMOTOR SENSATIONS IN PHYSICAL EXERCISE
JPRS-27192 N64-33761 24-14

PHYSICAL FITNESS
S MUSCULAR STRENGTH

PHYSICAL PROPERTY
FORMATION FACTORS, COMPOSITION, AND CHEMICAL & PHYSICAL NONUNIFORMITIES OF EARTH CRUST
N64-10282 01-12

PHYSICAL PROPERTIES OF MATERIALS AT HIGH TEMPERATURES
JPRS-18497 N64-10455 01-13

PHYSICAL PROPERTIES OF GRAPHITE AND NEW GRAPHITE MATERIALS
ASD-TDR-63-719 N64-10547 01-19

PHYSICAL AND MECHANICAL PROPERTIES STUDIED IN PREPARING NONSTOICHIOMETRIC METAL CARBIDES - TITANIUM CARBIDE
NASA-CR-52420 N64-10612 01-18

HEAT RESISTANT COMPOUNDS OF TRANSITION ELEMENTS - LATTICE STRUCTURE, X RAY SPECTROSCOPY, PHYSICAL PROPERTIES OF REFRACTORY MATERIAL
JPRS-17446 N64-10669 02-01

PHYSICAL PROPERTIES OF METALLOID COMPOUNDS - BORIDES, CARBIDES, NITRIDES, AND SILICIDES OF TRANSITION ELEMENTS
N64-10670 02-18

PHYSICAL AND NUCLEAR PROPERTIES OF GASEOUS, LIQUID, METAL, AND LIQUID METAL COOLANTS
FTD-TT-61-478 N64-11587 03-23

PHYSICAL AND CHEMICAL PROPERTIES, CHARACTERISTICS, INORGANIC AND ORGANIC COMPOUNDS OF POLONIUM
MLM-1165 N64-13381 04-23

PHYSICAL PROPERTIES, ROLLING, AND SINTERING METAL POWDERS
JPRS-22933 N64-15006 07-01

PHYSICAL PROPERTIES OF POWDER PARTICLES
N64-15008 07-17

PHYSICAL PROPERTIES OF UPPER ATMOSPHERE
N64-15279 07-12

NUCLEIC ACIDS - RIBONUCLEIC AND DESOXYRIBONUCLEIC ACIDS - PHYSICAL & CHEMICAL PROPERTIES AND ROLE IN PROTEIN SYNTHESIS
JPRS-24070 N64-18328 10-16

PHYSICAL AND CHEMICAL PROPERTIES OF SINGLE-STRAND DESOXYRIBONUCLEIC ACID N64-18329 10-16

METALLURGICAL EFFECTS OF EXPLOSIVE STRAIN RATES ON MECHANICAL AND PHYSICAL PROPERTIES OF METAL ALLOYS
NASA-CR-53640 N64-18513 10-18

INFLUENCE OF ULTRASONIC RADIATION ON PHYSICAL PROPERTIES OF METALS - ALUMINUM CYLINDER TEST SAMPLE
FTD-MT-63-161 N64-18687 11-17

PHYSICAL AND CHEMICAL PROPERTIES OF REFRACTORY METALS
ERR-FW-049A N64-18944 11-18

DISTRIBUTION, MOTION, AND PHYSICAL PROPERTIES OF INTERSTELLAR MATERIAL N64-19347 12-05

PHYSICAL PROPERTIES AND ORIGINS OF ASTEROIDS - DEEP SPACE INVESTIGATIONS
NASA-CR-53774 N64-19570 12-29

PHYSICAL PROPERTIES OF IONOSPHERIC D-LAYER
N64-19677 12-12

DESIGN TECHNIQUES FOR STRUCTURALLY SUPPORTED CERAMIC RADOMES - PRESSURE DRAG, ELECTRIC, AND PHYSICAL PROPERTIES
IER-1 N64-20165 13-08

SYNTHESIS AND PHYSICAL & CHEMICAL PROPERTIES OF GERMANIUM FLUORPHLOGOPITE COMPOUND
BM-RI-6443 N64-20488 13-19

MECHANICAL AND PHYSICAL PROPERTIES OF DISPERSIONS OF BERYLLIUM PARTICLES IN DUCTILE ALUMINUM MATRIX
AD-440083 N64-20563 13-18

CHEMICAL AND PHYSICAL PROPERTIES OF AZIDES FOR INFLATABLE SOLAR ENERGY COLLECTORS
NASA-CR-53991 N64-20582 13-06

PHYSICAL AND CHEMICAL PROPERTIES OF THICK OXIDE FILMS OF ANODIZED ALUMINUM ALLOYS
N64-20923 14-18

PHYSICAL PROPERTIES OF LIQUID METALS IN REGION OF MELTING AND BOILING POINT
EUR-599.D N64-21004 14-18

ANNOTATED BIBLIOGRAPHY ON SYNTHESIS AND PHYSICAL PROPERTIES OF ALUMINUM HYDRIDE AND RELATED COMPOUNDS
TDR-269/4210-10/-4 N64-21026 14-19

FABRICATION OF ELECTRONIC PARTS FROM BERYLLIUM OXIDE POWDER AND DETERMINATION OF PHYSICAL PROPERTIES OF TEST PIECES
AD-600126 N64-21027 14-19

PHYSICAL PROPERTIES OF PHOTOEMITTING MATERIALS AND PHOTOCATHODE PRODUCTION BY MOLECULAR BEAM DEPOSITION
AD-439853 N64-21233 14-25

PHYSICAL PROPERTIES OF WELDED COBALT-MOLYBDENUM-NICKEL ALLOY PLATE - WELDING TECHNIQUES, AGING, FRACTURE TOUGHNESS, & FAILURE SUSCEPTIBILITY
SM-45959 N64-22488 15-18

PHYSICAL AND MECHANICAL PROPERTIES OF INCONEL HONEYCOMB CORE
A736 N64-22581 15-18

PHYSICAL PROPERTIES OF CALCIUM-AMMONIA SOLUTIONS AND AMMONIA BATTERIES
NOLC-597 N64-22880 16-06

PHYSICAL PROPERTIES OF CALCIUM-AMMONIA SOLUTIONS
N64-22881 16-07

STRUCTURAL, CHEMICAL AND ELASTIC PROPERTIES OF GLASS
FTD-TT-63-265/1&2&4 N64-23298 16-19

PHYSICAL AND MECHANICAL PROPERTIES OF CRYOGENIC MATERIALS - HANDBOOK
PB-171809-4 N64-25042 17-11

PHYSICAL PROPERTIES AND MAGNETIC SUSCEPTIBILITIES OF TANTALUM COMPOUNDS /ORTHOTANTALATES/ OF LANTHANUM, SAMARIUM, AND EUROPIUM
FTD-TT-64-321/1&4 N64-25471 17-19

PHYSICAL PROPERTIES OF INDUSTRIAL FUEL MIXTURE OF HYDROCARBON COMPOUNDS FOR HEAT TRANSFER
EUR-1619.E N64-25543 17-13

HIGH TEMPERATURE CHEMICAL & PHYSICAL PROPERTIES OF ROCKET NOZZLE MATERIALS
AD-442218 N64-25554 17-11

PHYSICAL PROPERTIES OF NONMETALLIC MATERIALS FOR MANNED SPACE VEHICLES
REPT.-6792 N64-25627 17-19

METALLURGY AND PHYSICAL PROPERTIES OF HEAT RESISTANT REFRACTORY ALLOYS
FTD-MT-63-206 N64-26093 18-18

PREPARATION AND PHYSICAL PROPERTIES OF RARE EARTH TITANATES N64-26400 18-18

ENGINEERING AND HEAT TRANSFER PROPERTIES OF LIQUID METALS
NAA-SR-8617, VOL. I N64-26692 18-18

PHYSICAL PROPERTIES OF GRAPHITE MATERIALS
WADD-TR-61-72, VOL. XXVI N64-26948 18-18

PHYSICAL PROPERTIES OF NIOBIUM ALLOY EVALUATION AS STRUCTURAL MATERIAL FOR REENTRY VEHICLE
D2-20239-1 N64-27084 19-18

PHYSICAL PROPERTIES OF NIOBIUM ALLOY - EVALUATION AS STRUCTURAL MATERIAL FOR REENTRY VEHICLE
D2-20275-1 N64-27085 19-18

APPLICATION OF PENETROMETERS TO STUDY OF PHYSICAL PROPERTIES OF LUNAR AND PLANETARY SURFACES
NASA-TN-D-2413 N64-27120 19-15

FABRICATION AND PHYSICAL PROPERTIES OF CARBONIZED AND GRAPHITIZED CLOTH COMPOSITES
WADD-TR-61-72, VOL. IX N64-27334 19-19

TABLES OF ENGINEERING PROPERTIES OF ALUMINUM ALLOY
REPT.-638049 N64-27336 19-18

PHYSICAL AND THERMODYNAMIC PROPERTIES OF MATERIALS AT HIGH TEMPERATURES
JPRS-26065 N64-27762 19-18

CHEMICAL AND PHYSICAL PROPERTIES OF AMMONIUM NITRATE-ALUMINUM MIXTURE
NOLTR-64-63 N64-27919 20-07

PHYSICAL PROPERTIES OF PRODUCTION GRADE ALUMINUM OXIDE-COPPER ALLOY RODS
JPRS-26000 N64-28444 20-18

ORBITAL ELEMENTS AND PHYSICAL PROPERTIES OF PERIODIC COMETS
NASA-CR-58544 N64-28524 20-05

PHYSICAL PROPERTIES OF VERY LOW FREQUENCY EMISSIONS OBSERVED NEAR AURORAL ZONE
AFCRL-64-628 N64-28535 20-12

THERMAL AND PHYSICAL PROPERTIES OF CERAMIC MATRICES
IER-5 N64-28569 20-17

CHEMICAL AND PHYSICAL PROPERTIES OF CHROMIUM-GADOLINIUM SYSTEM
BM-RI-6503 N64-28695 20-18

PHYSICAL AND MECHANICAL PROPERTIES OF METASTABLE GAMMA PHASE OF URANIUM ALLOY CONTAINING NIOBIUM AND ZIRCONIUM
UCRL-7869 N64-28778 20-18

PHYSICAL PROPERTIES OF PHOTODETECTORS
NOLC-602 N64-28903 20-25

PHYSICAL AND MECHANICAL PROPERTIES OF IRON AND NICKEL ALLOYS N64-29042 21-18

PHYSICAL PROPERTIES OF AIRCRAFT COATINGS AND PAINTS
NAEC-AML-1965 N64-29230 21-17

PHYSICAL AND THERMODYNAMIC PROPERTIES OF ROCKET EXHAUST PRODUCTS
GR-7414-11 N64-30140 21-07

PHYSICAL AND CHEMICAL CHARACTERISTICS OF BALLOONS AND BALLOON MATERIALS - FLIGHT CONDITION EFFECTS ON BALLOON PERFORMANCE
AD-601997 N64-30194 21-19

PHYSICAL PROPERTIES, FLUORESCENCE, AND THEORETICAL ENERGY DISTRIBUTION OF GLASS FOR LASER
AD-443680 N64-30591 22-25

FABRICATION, PHYSICAL PROPERTIES, AND SPINNING CHARACTERISTICS OF TUNGSTEN SHEET AND PLATE
QR-1 N64-31180 22-18

BIBLIOGRAPHY ON GROUPS IV, V, AND VI TRANSITION METALS - PREPARATION METHODS, CRYSTAL STRUCTURE, PHASE TRANSITIONS, AND PHYSICAL, MECHANICAL, AND TRANSPORT PROPERTIES
ORNL-RMIC-3 N64-31466 23-25

EFFECTS OF PHYSICAL AND GEOMETRIC PARAMETERS AND HUMAN VISUAL LIMITATIONS ON VISIBILITY DURING LOW ALTITUDE HIGH SPEED FLIGHT N64-31511 23-14

PHYSICAL, ELECTRICAL, THERMAL, AND OPTICAL PROPERTIES OF SILICON FOR INTEGRATED CIRCUIT APPLICATIONS
ASD-TDR-63-316, VOL. V N64-31940 23-25

CHEMICAL AND PHYSICAL PROPERTIES OF TERNARY PHASES OF TUNGSTEN AND TUNGSTEN-BASE ALLOY OXIDATION
ML-TDR-64-230, PT. I N64-31970 23-18

MECHANICAL AND PHYSICAL PROPERTIES OF THREE SUPERALLOYS
DMIC-MEMO-193 N64-32179 23-18

PHYSICAB AND MECHANICAL PROPERTIES OF LOW NICKEL CARBURIZING STEELS
JPRS-26959 N64-32304 23-18

PHYSICAL AND CHEMICAL PROPERTIES OF ANHYDROUS METAL NITRATES
ATR-23 N64-32367 23-07

PHYSICAL AND CHEMICAL PROPERTIES AFFECTING HIGH TEMPERATURE MATERIALS FOR ROCKET NOZZLES
AD-448482 N64-32547 23-07

ELECTRON RADIATION EFFECT ON PHYSICAL PROPERTIES OF ECHO II LAMINATE
NASA-TN-D-2207 N64-32836 24-28

SYNTHESIS AND PHYSICAL-CHEMICAL PROPERTIES OF RARE EARTH CARBIDES, NITRIDES, AND SILICIDES
JPRS-26877 N64-32884 24-07

TESTING PHYSICAL PROPERTIES OF METALS - STRESS AND STRAIN WITH HIGH RATE OF DEFORMATION
AD-448241 N64-32953 24-33

PHYSICAL AND CHEMICAL PROPERTIES OF IRON-CHROMIUM-NITROGEN ALLOYS
AD-445860 N64-32983 24-18

DETERMINATION OF PHYSICAL PROPERTIES OF MARS ATMOSPHERE FROM CHANGES IN DOPPLER SIGNAL OF SPACECRAFT ON EARTH OCCULTATION TRAJECTORY
NASA-CR-59161 N64-33000 24-29

EFFECTS OF PURITY AND STRUCTURE ON PHYSICAL AND MECHANICAL PROPERTIES OF ARC-MELTED TUNGSTEN
NASA-TM-D-2503 N64-33085 24-18

PREPARATION AND CHEMICAL AND PHYSICAL PROPERTY STUDY OF BORANE AND TRIBOROHYDRIDE DERIVATIVES OF METHYLATED POLYAMINES
UCRL-7973 N64-33237 24-07

GENERAL THEOREM FOR TENSOR PHYSICAL PROPERTIES OF GRAIN ORIENTED METALS
DP-927 N64-33603 24-18

TITANIUM ALLOY FOR HULLS OF DEEP-DIVING VEHICLES - PHYSICAL METALLURGY & DEVELOPMENT
MEL-194/64 N64-33881 24-18

MECHANICAL & PHYSICAL PROPERTIES OF TZM ALLOY SHEET AND TUNGSTEN SHEET
QPR-7 N64-33948 24-18

PHYSICS /GEN/
SA ASTROPHYSICS
SA ATOMIC PHYSICS
SA BIOPHYSICS
SA CLOUD PHYSICS
SA COMBUSTION PHYSICS
SA ELECTRONICS
SA GEOPHYSICS

SA LOW TEMPERATURE PHYSICS
SA MOLECULAR PHYSICS
SA NEUTRON PHYSICS
CF NUCLEAR PHYSICS
CF PLASMA PHYSICS
CF POLYMER PHYSICS
CF RADIOPHYSICS
CF REENTRY PHYSICS
CF SOLAR PHYSICS
CF SOLID STATE PHYSICS
REACTOR UTILIZATION AND ABSTRACTS OF CHEMISTRY, ENGINEERING, METALLURGY, AND PHYSICS RESEARCH
IS-700 N64-10257 01-01

RELATIONSHIPS BETWEEN PSYCHOPHYSICAL JUDGMENTS OF IMAGE QUALITY AND PHYSICAL IMAGE VARIABLES
N64-10531 01-14

ANALOG COMPUTER USE FOR SOLUTION OF EXTREMUM PROBLEMS IN PHYSICS - VIBRATION THEORY AND GAME THEORY
JPRS-19244 N64-10585 01-20

PROBLEMS IN METALLURGY AND PHYSICS OF METALS AND METAL ALLOYS
FTD-TT-62-1290/1&2&4 N64-11144 02-18

PELTIER REFRIGERATORS AS TRANSDUCERS FOR PSYCHOPHYSICAL STUDY OF TEMPERATURE SENSE
N64-11259 02-16

STATUS OF ELECTRONIC, AERONAUTICAL, & PHYSICAL RESEARCH N64-11364 02-01

NUCLEAR RESEARCH PROGRAMS IN PHYSICAL & BIOLOGICAL SCIENCES, AND ENGINEERING - BIBLIOGRAPHY
BNL-806/AS-17/ N64-13289 04-01

PSYCHOPHYSICAL EXPERIMENTS ON TACTILE STIMULATION BY SMALL AIR JETS TO DETERMINE PARAMETERS FOR DESIGN OF TACTILE COMMUNICATION DEVICE
ASD-TDR-63-732 N64-14689 06-16

PHYSICS, BIOSCIENCES, MATHEMATICS, AND METALLURGY
N64-15563 07-01

SELECTED ARTICLES FROM JOURNAL OF ENGINEERING PHYSICS
FTD-TT-63-85/1&2 N64-17176 09-01

PHYSICS RESEARCH
UCRL-11132 N64-17759 09-23

INVESTIGATION OF COVARIANCE PRINCIPLES IN CLASSICAL AND QUANTUM PHYSICS
NASA-CR-53563 N64-18423 10-23

SIGNAL DETECTION BY HUMAN OBSERVERS - PSYCHO-PHYSICS
ESD-TDR-64-174 N64-18588 11-14

INTENSIFICATION OF HOMOGENEOUS COMBUSTION BY LOW FREQUENCY OSCILLATIONS - FORMATION AND BREAKDOWN OF VORTICES
FTD-MT-63-50/1&2 N64-18673 11-26

SPACE SCIENCES PROGRAM - PHYSICAL SCIENCES, BIOLOGICAL SCIENCES, ENGINEERING, AND BUSINESS ADMINISTRATION N64-19005 11-01

METALLURGICAL, PHYSICAL, CHEMICAL, & MISCELLANEOUS RESEARCH N64-19077 11-01

PHYSICS, ELECTRONICS, & MEASUREMENT STANDARDS, CHEMISTRY & PROPERTIES OF MATERIALS, APPLIED MATHEMATICS, RADIO PROPAGATION, AND OTHER RESEARCH
NBS-MISC.-PUBL.-255 N64-21512 15-23

APPLIED MECHANICS & TECHNICAL PHYSICS
FTD-TT-63-87/1&2 N64-23684 16-11

TWO-CENTER EXPANSION FOR POWERS OF DISTANCE BETWEEN TWO POINTS - MATHEMATICAL PHYSICS
N64-25668 17-20

CHEMISTRY, BIOCHEMISTRY, PHYSICS, AND ENGINEERING IN COMMUNIST CHINA
JPRS-24862 N64-25786 17-07

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N64-26900 18-07

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AD-601472 N64-27497 19-01

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N64-28140 20-10

PHYSICS OF UPPER ATMOSPHERE
JPRS-16025 N64-28630 20-12

BIBLIOGRAPHY OF GAS AND CONDENSED PHASE REACTIONS OF HIGH TEMPERATURE CHEMISTRY AND PHYSICS
N64-28694 20-07

PHYSICS RESEARCH PROJECTS
UCRL-11466 N64-31324 22-23

THERMIONIC ENERGY CONVERTERS AND INVESTIGATION OF HIGH-EFFICIENCY PROCESS OF HOLLOW-CATHODE DISCHARGE
AFCRL-64-560 N64-31402 23-04

RESEARCH IN PHYSICS, CHEMISTRY, MATHEMATICS, METALLURGY, RADIO, AND SOUND
AD-602948 N64-32786 24-10

UNIVERSITY OF AUSTRALIA RESEARCH PROGRAMS IN PHYSICS, CHEMISTRY, CIVIL AND ELECTRICAL ENGINEERING, AND MATHEMATICS N64-32986 24-14

PHYSIOCHEMISTRY
CF BIOCHEMISTRY
PHYSIOCHEMICAL FACTORS CONTRIBUTING TO THERMOELECTRIC PROPERTIES OF MATERIALS
N64-10003 01-13

MICROMETHOD FOR PHYSIOCHEMICAL INVESTIGATION OF PLUTONIUM & ITS ALLOYS
JPRS-22599 N64-13382 04-13

PHYSICOCHEMICAL PROPERTIES OF CEREBRAL PROTEINS DURING EXCITATION OF NERVOUS ACTIVITY BY CAMPHOR
JPRS-24119 N64-18085 10-14

PHYSICOCHEMICAL SYNTHESIS OF CARBOHYDRATES IN SPACESHIP CABIN N64-23774 16-14

PHYSIOCHEMICAL PROCESSES IN BIOCHEMISTRY AND APPLICATIONS IN INDUSTRY
JPRS-27063 N64-33344 24-14

PHYSIOLOGICAL PHENOMENA
MATHEMATICAL MODEL FOR PHYSIOLOGICAL PHENOMENA - CYBERNETICS N64-12513 04-14

APPLICATIONS OF CYBERNETICS TO PHYSIOLOGICAL PHENOMENA
FTD-TT-63-521/1&4 N64-22182 15-14

PHYSIOLOGICAL RESPONSE
CF BIOLOGICAL EFFECT
BODY REACTION TO PAINFUL STIMULI - ACTIVE AND PASSIVE
JPRS-21617 N64-10117 01-11

EFFECTS OF BIPOLAR IONIZED AIR ON CHANGE IN BLOOD COMPLEMENT TITER AND ON ANAPHYLACTIC SHOCK IN RABBITS
JPRS-21777 N64-10152 01-0

PHYSIOLOGICAL EFFECTS OF WEIGHTLESSNESS IN SPACE FLIGHT N64-10265 01-1

REACTIONS TO ACCELERATION
JPRS-21908 N64-10383 01-1

PHYSIOLOGICAL RESPONSES OF MAN UNDER CONDITIONS O ALTERNATING OVERLOAD AND WEIGHTLESSNESS
N64-10703 02-

PSYCHOLOGICAL AND PHYSIOLOGICAL EFFECT OF SPACE FLIGHT ON ASTRONAUTS
JPRS-20171 N64-11135 02-

APPARATUS FOR CORRELATIVE ANALYSIS OF PHYSIOLOGICAL PROCESSES
JPRS-18899 N64-11430 02-16

METHODS FOR RECORDING PHYSIOLOGICAL DATA IN DOG LAYKA DURING SOVIET SPACE FLIGHT
N64-11690 03-16

HARNESS FOR AFFIXING SENSORS TO DOGS FOR REGISTRATION OF PHYSIOLOGICAL PHENOMENA DURING SPACE FLIGHT N64-11694 03-16

PHYSIOLOGICAL RESPONSE OF CARDIOVASCULAR SYSTEM TO VIBRATION STRESS OF SPACE FLIGHT
N64-11698 03-16

PHYSIOLOGY OF DOG RESPIRATORY AND CARDIOVASCULAR SYSTEMS DURING STRESS OF ACCELERATION
N64-11699 03-16

THEORY AND EXPERIMENTS ON PHYSIOLOGY OF FORWARD ACCELERATIONS N64-11852 03-14

SPACE BIOLOGY - PHYSIOLOGICAL EFFECTS, EXTRA-TERRESTRIAL LIFE, CLOSED ECOLOGICAL SYSTEM, SECURITY, LIFE EFFECTS, AND RADIOBIOLOGY
N64-11855 03-01

EFFECT OF ACCELERATION STRESS & WEIGHTLESSNESS ON PHYSIOLOGICAL FUNCTIONS OF DOGS IN BALLISTIC ROCKET FLIGHTS N64-11860 03-16

PHYSIOLOGICAL RESPONSE OF NERVOUS SYSTEM COMPONENTS
IPST-985 N64-11946 03-16

VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN FOLLOWING STRESS ADAPTATION - EOSINOPHILE COUNT IN BLOOD & ADRENO-CORTICAL HORMONE LEVEL IN PLASMA
N64-12753 04-16

HUMAN CENTRIFUGES & PHYSIOLOGICAL EFFECTS OF ACCELERATION - HUMAN PERFORMANCE & TOLERANCE, AND ANIMAL STUDIES
AGARDOGRAPH-48 N64-13451 05-01

PHYSIOLOGICAL REACTIONS TO ACCELERATION STRESS AND PROTECTIVE CLOTHING N64-13453 05-16

PHYSIOLOGICAL EFFECTS OF ROTATIONAL ACCELERATION IN RELATION TO MOTION SICKNESS, SPATIAL DISORIENTATION, & BLACKOUT N64-13454 05-16

CENTRIFUGE AS FLIGHT SIMULATOR - RESTRAINT SYSTEMS AND PHYSIOLOGICAL REACTION TO ACCELERATION STRESS
N64-13457 05-16

REPEATED POSITIVE ACCELERATION OF LOW INTENSITY & LONG DURATION - ANATOMICAL STUDY OF DOG KIDNEY
N64-13462 05-16

HEMATOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL RESPONSE FROM MASSIVE DOSES OF MIXED GAMMA AND NEUTRON IRRADIATION IN GOATS
RTD-TDR-63-3077 N64-13827 05-16

PHYSIOLOGY OF ATTENTION - DYNAMICS OF LATENT PERIODS OF MOTOR REACTION TO REPEATED STIMULI
JPRS-22892 N64-14147 05-14

TOTAL BODY X-IRRADIATION OF BIRDS OF DIFFERENT SPECIES
JPRS-23169 N64-15153 07-16

BIOLOGICAL EFFECT OF MAGNETIC FIELD ON DROSOPHILA
NASA-CR-55625 N64-15346 07-16

CLINICAL MEDICINE STUDIES OF PHYSIOLOGICAL EFFECTS OF RADIATION EXPOSURE
ORO-614 N64-16551 08-16

PHYSIOLOGICAL EFFECTS OF EXPOSURE TO INCREASED OXYGEN TENSION
SAM-TDR-63-64 N64-16640 08-14

PHYSIOLOGICAL REACTIONS OF COSMONAUTS DURING THE ACTION OF GRAVITY LOADS AND WEIGHTLESSNESS
JPRS-23917 N64-17738 09-14

PHYSIOLOGICAL REACTIONS TO RADIATION & BIOTELEMETRY
JPRS-24301 N64-18972 11-16

PHYSIOLOGICAL & PSYCHOLOGICAL DISORIENTATION OF ASTRONAUT DURING SPACE TRAVEL
NADC-MA-6321 N64-20329 13-14

ELECTROENCEPHALOGRAPHIC CHANGES IN HUMANS DURING BLACKOUTS INDUCED BY ACCELERATION
NADC-ML-6402 N64-20450 13-16

MONITORING INSTRUMENTATION FOR PHYSIOLOGICAL RESPONSE OF EXPERIMENTAL ANIMALS IN BALLOON FLIGHTS
NASA-CR-53652 N64-20598 13-14

MINIATURE RADIOTELEMETRIC APPARATUS FOR RECORDING PHYSIOLOGICAL RESPONSES
FTD-TT-63-1029/1&2&4 N64-21544 15-16

PHYSIOLOGICAL REACTION OF HUMAN BODY DURING ACCELERATION DIRECTED ALONG SPINE-BREAST AXIS
FTD-TT-63-1095/1&2 N64-21941 15-16

HUMAN TOLERANCE TO TRANSVERSE ACCELERATION AND DECELERATION FORCES N64-22075 15-16

PHYSIOLOGICAL RESPONSES OF RABBITS
FTD-TT-62-1642 N64-22168 15-16

HUMAN PHYSIOLOGICAL AND PSYCHOLOGICAL RESPONSES TO SLOW ROTATION N64-23696 16-16

PHYSIOLOGICAL RESPONSE OF HUMAN BODY TO ACCELERATION N64-23697 16-16

HISTOPHYSIOLOGICAL CHANGES IN TISSUES AND INTERNAL ORGANS OF EXPERIMENTAL ANIMALS UNDER G-FORCES
N64-23764 16-16

PHYSIOLOGICAL EFFECTS AND HUMAN TOLERANCES - INFLUENCE ON DESIGN OF LIFE SUPPORT SYSTEMS FOR SUBMARINES OR SPACECRAFT N64-24610 17-16

PSYCHOLOGICAL AND PHYSIOLOGICAL RESPONSES OF TWO U.S.S.R. ASTRONAUTS DURING ORBITAL SPACE FLIGHT
-N64-25167 17-14

PHYSIOLOGICAL EFFECTS OF ARGON, HELIUM, AND RARE GASES ON CELLULAR SYSTEMS
AD-600641 N64-25925 18-16

THRESHOLD OF ACCELERATION SENSATION IN MAN
JPRS-25929 N64-26880 18-16

PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT CONDITIONS - COSMIC RADIATION, WEIGHTLESSNESS, & OXYGEN SUPPLY
JPRS-25844 N64-27630 19-16

PHYSIOLOGICAL RESPONSE OF HUMAN BODY DURING SPACEFLIGHT - EFFECTS OF WEIGHTLESSNESS
FTD-TT-64-258/1&2&4 N64-27844 19-16

PILOT PERFORMANCE AND PHYSIOLOGICAL RESPONSE TO SIMULATED LOW-ALTITUDE HIGH-SPEED FLIGHT
N64-28948 20-14

AEROSPACE MEDICAL RESEARCH APPLIED TO OTHER MEDICAL FIELDS - PHYSIOLOGICAL RESPONSE TO RADIATION, WEIGHTLESSNESS, ACCELERATION, AND BIOINSTRUMENTATION
NASA-RP-306 N64-29339 21-16

INSTRUMENT TO PREDICT PHYSIOLOGICAL & SUBJECTIVE RESPONSE OF HUMANS TO TEMPERATURE DIFFERENCES
REPT.-6 N64-30629 22-15

PSYCHOLOGICAL RESPONSES AND HUMAN ADAPTIBILITY TO HEAT AND COLD - INSTRUMENTATION
AD-603074 N64-30859 22-16

PHYSIOLOGICAL STUDIES - COMPUTER PROCESSING OF DATA, BIOINSTRUMENTATION, EFFECTS OF HYPOXIA, AND ELECTROPHYSIOLOGY
JPRS-26444 N64-31536 23-16

EFFECT OF HIGH FREQUENCY ELECTROMAGNETIC RADIATION ON BLOOD HISTAMINE CONTENT AND CHOLINESTERASE

ACTIVITY IN HUMAN BODY N64-31540 23-16

KETONE PRODUCTION AS HUMAN REACTION TO BIOLOGICAL STRESSES - COLD, EXERCISE, AND STARVATION
APR-2 N64-32144 23-16

PHYSIOLOGICAL REACTIONS OF ANIMALS DURING SPACE FLIGHTS
JPRS-26994 N64-32796 24-16

LOSS OF CONSCIOUSNESS IN AVIATION PERSONNEL - PHYSIOLOGICAL SYNCOPE
REPT.-16 N64-33570 24-16

PHYSIOLOGY
SA DYSBARISM
SA HUMAN BODY
SA METABOLISM
SA NEUROLOGY
SA PSYCHOPHYSIOLOGY
TECHNIQUES AND METHODS OF CONDUCTING PHYSIOTHERAPEUTIC PROCEDURES
JPRS-21725 N64-10050 01-16

NERVE-REFLEX PROCESSES AND HOMEOSTATIC MECHANISMS IN PERMEABILITY CHANGES OF HISTOHEMATIC BARRIERS IN RADIATION SICKNESS
JPRS-21492 N64-10066 01-16

OUTLINE OF SOVIET LITERATURE ON HUMAN ENGINEERING - PHYSIOLOGY, PSYCHOLOGY, AND HYGIENE
JPRS-18772 N64-10505 01-14

MEDICAL CONFERENCES ON MINERAL WATER USE, CLIMATOPATHOLOGY, CORONARY SURGERY, HIGH ALTITUDE PHYSIOLOGY, AND EPIDEMIOLOGY
JPRS-21836 N64-10515 01-16

HUMAN PHYSIOLOGY AND PATHOLOGY IN HIGH-ALTITUDE AREAS N64-10516 01-16

BRAIN ACTIVITY ANALYSIS BY INFORMATION SYNTHESIS OBTAINED BY PHYSIOLOGICAL, BIOCHEMICAL, AND STRUCTURAL-MORPHOLOGICAL TECHNIQUES
JPRS-17717 N64-10713 02-16

PATHOLOGICAL PHYSIOLOGY AND EXPERIMENTAL THERAPY - RADIATION SICKNESS, CONGENITAL DISEASE, AND HETEROHEMOTRANSFUSION REACTIONS
JPRS-17819 N64-10723 02-16

RELATIONSHIP BETWEEN EMPIRICAL AND THEORETICAL IN SCIENCE, PHYSIOLOGICAL BASIS OF CONSCIOUSNESS - EPISTEMOLOGY
JPRS-18208 N64-10751 02-16

ELECTROGASTROGRAPHIC ANALYSIS OF GASTROINTESTINAL ACTIVITY OF STOMACH DURING DIGESTION
JPRS-21925 N64-10850 02-16

MEDICINE AND PHYSIOLOGY - TRACER STUDIES OF MUSCLE FATIGUE AND MULTICHANNEL POTENTIOMETERS FOR PHYSIOLOGICAL MEASUREMENTS
JPRS-18339 N64-11041 02-01

AUTOMATIC ELECTRONIC INSTRUMENTS FOR MEDICAL AND PHYSIOLOGICAL MEASUREMENTS N64-11042 02-15

PHYSIOLOGIC MECHANISM FOR PERCEPTION OF KNOWLEDGE THROUGH SENSORY ORGANS IN MAN
JPRS-19762 N64-11352 02-16

ELECTRICAL STIMULATION AS THERAPEUTIC APPARATUS FOR ULTRASONIC PHYSIOTHERAPY
JPRS-22280 N64-11871 03-16

CYBERNETICS IN MEDICINE & PHYSIOLOGY
JPRS-22377 N64-11918 03-16

RESPIRATORY PHYSIOLOGY OF VIBRATIONS OF VOCAL CORDS FROM TRACHEAL OUTER WALL VIBRATIONS
E-T-J-63-4 N64-12277 03-23

DERIVATIVES OF PYRIDYLTHIAZOLYMETHANE AS PHYSIOLOGICALLY ACTIVE SUBSTANCES
E-T-R-63-2 N64-12280 03-07

IN VIVO METHOD FOR QUANTITATIVE ESTIMATION OF TOTAL GAS PRESSURE IN MAMMALIAN TISSUE
CARI-63-11 N64-12346 03-16

PHYSIOLOGY & PROBLEMS OF CYBERNETICS N64-12512 04-16

INFORMATION PROCESSING OF PHYSIOLOGICAL DATA FOR FUNCTIONS OF ENTIRE ORGANISM - CYBERNETICS N64-12518 04-16

PERFORMANCE CHARACTERISTICS OF ELECTRODES, SIGNAL MODIFIERS, AND GRAPHIC RECORDING COMPONENTS IN PHYSIOLOGICAL MONITORING SYSTEM
AMRL-TDR-62-98(2) N64-13872 05-14

PHYSIOLOGICAL FACTOR OF ACOUSTIC FATIGUE IN HEARING PURE TONES
CARI-63-19 N64-14410 06-16

PHYSIOLOGY, BIOPHYSICS, & BIONICS
JPRS-23022 N64-14523 06-16

INTERRELATIONSHIP BETWEEN PHYSIOLOGY & CYBERNETICS
JPRS-23060 N64-14530 06-16

OXYGEN DECOMPRESSION SICKNESS RESULTS ON RATS APPLIED TO HUMAN RESPIRATION PHYSIOLOGY N64-15042 07-16

ELECTROPHYSIOLOGIC CHARACTERISTICS AND INTERPRETATION OF SKIN POTENTIALS
SAM-TDR-63-95 N64-15570 07-16

ANATOMICAL & PHYSIOLOGICAL DATA OF GASTRO-INTESTINAL TRACT FOR CALCULATING LEVELS OF RADIOACTIVE CONTAMINATION IN FOOD CHAIN
EUR-489.F N64-16927 09-16

INFLUENCE OF PHYSICAL AGENTS ON PHYSIOLOGICAL MECHANISMS WHICH PROTECT ORGANISMS FROM DISEASE N64-17171 09-16

ELECTRIC PROPERTIES OF TISSUES N64-17539 09-16

NONPOLARIZING ELECTRODES FOR DETECTING SLOWLY VARYING BIOPOTENTIALS IN INTERNAL CAVITIES - BIOPHYSICS
NASA-TT-F-199 N64-17744 09-15

NEUROPHYSIOLOGY - THEORY OF CENTRAL NERVOUS SYSTEM FUNCTION, AND OPTICAL PHENOMENA N64-17885 10-16

GASEOUS ENVIRONMENT AND ATELECTASIS - RESPIRATORY PHYSIOLOGY N64-17955 10-16

RESPIRATORY PHYSIOLOGY AND GAS EXCHANGE IN WATER MEDIUM N64-17956 10-16

SIMULATION WITH CARBON PARTICLES OF BACTERIAL INVASION OF HUMAN GINGIVAL TISSUES - PHYSIOLOGY
SAM-TDR-64-4 N64-17963 10-16

RADIO TELEMETRY AS METHOD OF BIOINSTRUMENTATION FOR STUDY OF PHYSIOLOGY IN SPORTS, WORK, AND DISEASE
JPRS-23910 N64-18092 10-08

PHYSIOLOGY AND BIOCHEMISTRY OF PLANTS - EFFECT OF INDOLYL ACETIC ACID AND INDOLYL BUTYRIC ACID ON ALGAE
FTD-MT-63-49 N64-18672 11-16

USE OF ANATOMICAL & PHYSIOLOGICAL EVIDENCE FOR CONSTRUCTING THEORIES OF INFORMATION PROCESSING OR SENSORY DISCRIMINATION - AUDITORY SYSTEM N64-18830 11-16

TUNING BETWEEN CENTRAL SENSORY PATHWAYS AND SENSE ORGANS - AUDITORY DISCRIMINATION N64-18831 11-16

PHYSIOLOGICAL MECHANISMS FOR STUDYING HUMAN BODY
JPRS-24183 N64-18966 11-16

ANALYSIS OF DATA FROM BIOCHEMICAL AND PHYSIOLOGICAL TRACER EXPERIMENTS - LINEAR SYSTEM N64-19152 11-16

PHYSIOLOGICAL MECHANISMS OF CHEMICAL

THERMOREGULATION N64-22169 15-16

FUNCTIONAL CHANGES IN ORGANISM AS RESULT OF BREATHING HIGH OXYGEN-LOW CARBON DIOXIDE GAS MIXTURE AT REST AND DURING EXERCISE N64-22170 15-16

NEUROPHYSIOLOGICAL ANALYSIS OF MECHANICAL, INTEGRATED FUNCTIONS OF ANIMAL MOTOR SYSTEM
IPST-1014 N64-22232 15-16

PHYSIOLOGICAL AND BEHAVIORAL DATA OF ASTRONAUTS DURING SPACE FLIGHTS
FTD-TT-62-1300/1&2 N64-22622 15-32

EMERGENT ORGANIC CHEMISTRY UNDER VARIOUS PLANETARY CONDITIONS - ABIOGENESIS, PLANETARY ATMOSPHERES, PLANTS, CHROMOSOMES, & FERTILIZATION PHYSIOLOGY
NASA-CR-56526 N64-22787 16-16

PROPERTIES OF SERUM FROM RABBITS IMMUNIZED WITH HUMAN URINARY ERYTHROPOIETIN - HUMAN PHYSIOLOGY N64-22854 16-16

LIPID TRANSFER BETWEEN HIGH DENSITY AND VERY LOW DENSITY LIPOPROTEINS N64-22864 16-16

PHYSIOLOGY AND PATHOLOGY OF CIRCULATORY SYSTEM
NASA-TT-F-173 N64-23204 16-16

METHODS OF PHYSIOLOGICAL TESTING IN HUMANS
FTD-TT-63-916/1 N64-23428 16-16

PATHOLOGY AND PHYSIOLOGY OF ADAPTIVE CONTROL AND PROTECTION MECHANISMS IN ANIMALS
FTD-TT-62-1548/1&2&4 N64-23463 16-16

ORGANISM PHYSIOLOGICAL MECHANISMS FOR REGULATION AND PROTECTION - ANIMAL STUDY N64-23464 16-16

COMPUTER SIMULATION OF HUMAN PHYSIOLOGY FOR DIAGNOSIS OF HEART MALFUNCTION N64-23698 16-16

BIOLOGICAL AND PHYSIOLOGICAL STUDIES IN ROCKET AND SATELLITE FLIGHTS N64-23737 16-16

PHYSIOLOGICAL INTERACTION OF SENSE ORGANS UNDER SPACE FLIGHT CONDITIONS N64-23741 16-16

PHYSIOLOGICAL STUDIES OF SPEECH PROCESS FOR CONSTRUCTING AUTOMATIC SPEECH RECOGNITION SYSTEMS N64-23767 16-16

RADIOISOTOPES IN CLINICAL MEDICINE - LOCALIZATION OF PLACENTA IN GASTROINTESTINAL TRACT N64-24007 16-16

ELECTRONIC DIFFERENTIATING DEVICES FOR ANALYSIS OF PHYSIOLOGICAL PROCESSES
FTD-TT-63-1191 N64-24324 17-16

MECHANICS OF HUMAN BODY
AMRL-TDR-63-123 N64-24339 17-16

BIOINSTRUMENTATION FOR MONITORING STUDY IN HUMAN PHYSIOLOGY IN CLOSED ECOLOGICAL SYSTEMS N64-24622 17-15

PHYSIOLOGICAL MECHANISMS INVOLVED IN VISUAL PERCEPTION OF DISTANCE TO MOVING OBJECTS N64-25140 17-16

GROWTH-RELATED CHANGES IN ZINC CONTENT OF HUMAN BLOOD
JPRS-25364 N64-25196 17-16

PHYSIOLOGICAL BASE-LINE STUDIES FOR CHIMPANZEES UNDER STABLE FLIGHT CONDITIONS
ARL-TDR-64-4 N64-26197 18-16

METABOLIC INTERCHANGES OF MAN FOR DESIGN OF SPACE VEHICLES
SM-45905 N64-27338 19-16

PHYSIOLOGICAL AND BIOCHEMICAL STUDY OF IONIZING RADIATION EFFECTS ON HUMAN METABOLISM AND BIOLOGICAL MUTATION
UCRL-11387 N64-27799 19-16

BIOINSTRUMENTATION - BIOACOUSTIC STIMULATOR, ELECTROGASTROGRAPH, MICROWAVE THERAPY APPARATUS, AND PROGRAM TIMER
JPRS-26037 N64-27927 20-15

HEALTH, SPACE SCIENCE AND TECHNOLOGY, BIOLOGY, AND PHYSIOLOGY
JPRS-25506 N64-28009 20-16

EQUIPMENT FOR COMPLEX NEUROLOGICAL-PHYSIOLOGICAL INVESTIGATION OF CENTRAL NERVOUS SYSTEM
JPRS-26316 N64-28426 20-15

MAN IN SPACE - EXPLORATION STAGES, LIFE SUPPORT SYSTEMS, RADIATION PROTECTION, TRAINING, AND PHYSIOLOGICAL RESEARCH METHODS
JPRS-25825 N64-28438 20-29

BIOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL STUDIES OF CENTRAL NERVOUS SYSTEM - CONDITIONED REFLEX
JPRS-26060 N64-28446 20-16

PHYSIOLOGICAL REQUIREMENTS FOR PROTECTION AGAINST ATMOSPHERIC PRESSURE CHANGES
FPRC/MEMO-201 N64-28698 20-16

PHYSIOLOGY OF PREDOMINATING TYPE CULTURES ISOLATED FROM HUMAN WASTE /FECES/
NASA-CR-58287 N64-29194 21-16

WORK CAPACITY AND TOLERANCE INFLUENCED BY AGE AND ALTITUDE - PHYSIOLOGY
CARI-63-33 N64-29849 21-14

RADIOTELEMETRY APPLIED TO SPORT & WORK PHYSIOLOGY N64-30236 22-16

SPACE CABIN ATMOSPHERES - PHYSICAL AND PHYSIOLOGICAL VARIABLES N64-30345 22-16

PHYSIOLOGICAL VALUE OF RADIOISOTOPE - KINETIC BEHAVIOR OF TRACERS
BNL-857/T-341/ N64-30623 22-16

CELL REGULATION PROBLEMS - LECTURES IN MOLECULAR BIOLOGY
JPRS-26558 N64-30777 22-16

PHYSIOLOGICAL CHANGES ACCOMPANYING STARVATION IN ARCTIC AND SUBARCTIC ENVIRONMENTS
AAL-TDR-63-16 N64-30975 22-16

PHYSIOLOGICAL STUDIES - BIOLOGICAL CYBERNETICS, FLOATING RECORDING DEVICE FOR DIGESTIVE SYSTEM, AND NYSTAGMUS RECORDING INSTRUMENTATION
FTD-TT-64-386/1&2 N64-31074 22-16

RADON TOLERANCE OF HUMAN GASTROINTESTINAL SYSTEM
UR-648 N64-31319 22-16

USE OF RADIOTELEMETRY TO STUDY GASTRIC EVACUATION
NASA-TT-F-9060 N64-31338 22-16

WATER INTOXICATION DUE TO GASTRIC LAVAGE IN CASES OF SUSPECTED ANILINE POISONING
NASA-TT-F-9056 N64-31445 23-16

PHYSIOLOGY OF NERVOUS SYSTEMS OF HUMANS & ANIMALS
JPRS-26427 N64-31457 23-16

HUMAN REACTIONS TO FEARED ELECTRIC SHOCK AND TO PRETENDED PAINFUL STIMULUS SHOWN BY HEART RATE & OTHER PHYSIOLOGICAL CHANGES N64-31459 23-14

PHYSIOLOGICAL SIGNIFICANCE OF HUMAN VOICE AS OBSERVED IN CHILDREN N64-31461 23-14

INPUT DEVICE FOR CONVERSION OF PHYSIOLOGICAL DATA RECORDED ON MAGNETIC TAPE INTO BINARY CODE FOR COMPUTER PROCESSING N64-31537 23-16

INTERRELATIONSHIPS BETWEEN PHYSIOLOGICAL PHENOMENA OF GIBBERELLIN COMPOUNDS AND MOLECULAR STRUCTURE
JPRS-26841 N64-31840 23-16

INCIDENCE OF PHYSIOLOGICAL SYMPTOMS IN HEALTHY MEN AFTER EXPOSURE TO RAPID DECOMPRESSION -

ALTITUDE SIMULATION TESTS
RR-3 N64-31886 23-16

CALIBRATION OF MERCURY STRAIN GAUGES FOR MEASUREMENT OF PHYSIOLOGICAL CHANGES IN BODY PARTS
AAL-TDR-64-7 N64-31937 23-15

ENDOCRINE AND METABOLIC RESPONSE OF RESTRAINED DOGS TO WHOLE-BODY VIBRATION
AMRL-TDR-64-54 N64-31943 23-16

ANNOTATED BIBLIOGRAPHY ON LIFE SUPPORT SYSTEMS - SPACE MEDICINE AND BIOLOGY, AND PHYSIOLOGY
ATD-P-64-52 N64-32355 23-16

ANNOTATED BIBLIOGRAPHY ON LIFE SUPPORT SYSTEMS - SPACE MEDICINE AND BIOLOGY, AND PHYSIOLOGY
ATD-P-64-53 N64-32356 23-16

NEUROPHYSIOLOGICAL ANIMAL STUDIES - BEHAVIOR MODIFIED BY DRUG INDUCEMENT
AD-601689 N64-32410 23-16

RATE-ANALOG DATA PROCESSING METHOD FOR MONITORING REPETITIVE PHYSIOLOGICAL VARIABLES DURING MANNED SPACE FLIGHT
AMRL-TDR-64-10 N64-32480 23-16

PHYSIOLOGY & PATHOLOGY OF WATER & SALT METABOLISM AND FLUID BALANCE OF WORKERS IN HOT ENVIRONMENTS
NASA-TT-F-9120 N64-33399 24-16

PHYSIOLOGICAL PROBLEMS OF ANIMALS - EFFECTS OF AGING, ULTRASONIC MEDICINE, MOBILITY OF NERVE PROCESSES, AND WEIGHTLESSNESS IN WATER ON HUMAN BODY
JPRS-26990 N64-33486 24-16

ABSTRACTS ON INVERTEBRATE AND VERTEBRATE BEHAVIOR, PHYSIOLOGY, ENDOCRINOLOGY, GENETICS, EMBRYOLOGY, EVOLUTION, AND CELL BIOLOGY
NASA-CR-59307 N64-33513 24-16

ZOOLOGY CONFERENCE - ENDOCRINE SYSTEMS, ADAPTATION OF MAMMALS, CHEMORECEPTION, NUCLEO-CYTOPLASMIC RELATIONS, FUNCTIONAL MORPHOLOGY, AND EVOLUTION
NASA-CR-59305 N64-33514 24-16

IDENTIFICATION OF RUDIMENTARY SENSORY ORGAN AT JUNCTION OF INFERIOR UTRICULAR SINUS AND SEMICIRCULAR CANAL IN MAN AND OTHER MAMMALS - PHYSIOLOGY
NASA-CR-59374 N64-33906 24-16

PICTURE
MICROWAVE RADIOMETER PICTURES TAKEN DURING FLIGHT TESTS INCLUDE THERMAL CONTRAST TARGETS AND SOIL COMPOSITION BOUNDARIES N64-10926 02-21

MOTION PICTURE STUDY OF BOILING FLOW IN VERTICAL, RECTANGULAR CHANNEL AT ATMOSPHERIC PRESSURE
NYO-9650 N64-16024 07-13

COMPUTER SIMULATION OF CODING FOR COLOR PICTURES
NASA-CR-58170 N64-27907 20-15

AUTOMATIC PICTURE TRANSMISSION GROUND STATION FOR METEOROLOGICAL SATELLITE READOUT PROVIDING REAL-TIME PICTURES OF EARTH CLOUDCOVER
REPT.-6 N64-28108 20-10

METEOROLOGICAL SATELLITE GROUND PICTURE RECEIVER FOR MOBILE USE
USAELRDL-TR-2426 N64-28602 20-08

GLOTTIS AND VOCAL CORD MEASUREMENTS BY DATA REDUCTION FROM MOTION PICTURE - DATA PROCESSOR
AFCRL-64-661 N64-31802 23-15

VIDICON PERFORMANCE CHARACTERISTICS FOR PICTURE TRANSMISSION AT VARIOUS ILLUMINATION LEVELS
N64-33800 24-15

PIEZOELECTRIC CRYSTAL
INSERTION LOSS DESIGN OF CRYSTAL FILTERS USING LOW PASS PIEZOELECTRIC QUARTZ CRYSTALS
RADC-TDR-63-402 N64-10537 01-09

FERROELECTRIC AND PIEZOELECTRIC MATERIALS
N64-14188 06-25

ELEMENT VELOCITY DISTRIBUTION CONTROL IN SONAR PIEZOELECTRIC CRYSTAL PROJECTOR ARRAY
N64-15112 07-23

EXTERNAL FORCE EFFECT ON VIBRATING PIEZOELECTRIC CRYSTAL PLATES
REPT.-11 N64-24090 16-25

MICROWAVE REGION ACOUSTIC WAVE AMPLIFICATION IN PIEZOELECTRIC SEMICONDUCTORS
ML-1148 N64-24224 16-25

WAVE STABILITY OF PIEZOELECTRIC CRYSTAL AMPLIFIERS AND HOLE MOBILITY EFFECT ON ACOUSTIC AMPLIFICATION
ML-1072 N64-31685 23-25

SPONTANEOUS CHARGE RELEASE AND ABSORPTION IN PIEZOELECTRIC CERAMICS
SUFFIELD-TN-137 N64-33002 24-15

PIEZORESISTIVE DEVICE
CF ELECTRIC RESISTANCE
TRANSDUCERS FOR TRANSIENT HIGH PRESSURE MEASUREMENTS - SHOCK IMPEDANCE MATCHING OF PIEZORESISTIVE GAUGE INSULATOR TO SALT ENVIRONMENT
AD-442689 N64-30204 21-15

PIGEON
BEHAVIORAL EFFECTS IN PIGEONS EXPOSED TO MERCURY VAPOR
UR-ENG-49-7 N64-19921 12-16

PIGMENT
SA MELANIN
SA RUTILE
RADIOSENSITIVITY OF ORGANISMS TO IONIZING RADIATION - PROTECTION BY VEGETABLE PIGMENTS IN PLANT CELLS & ANTIOXIDANTS IN ANIMAL ORGANISMS
JPRS-19363 N64-11069 02-16

PIGMENTS IN PURPLE AND GREEN PHOTOSYNTHESIZING BACTERIA - LUMINESCENT SPECTRA
FTD-TT-63-867/1&2 N64-12628 04-16

BIOLOGICALLY RESISTANT PIGMENT FROM AEROBIC WASTE DIGESTERS
SAM-TDR-63-57 N64-13852 05-16

RELATION BETWEEN LIGHT-INDUCED ELECTRON PARA-MAGNETIC RESONANCE SIGNAL AND PIGMENT P700
NASA-CR-55356 N64-15541 07-23

HIGH TEMPERATURE NONREFLECTIVE EROSION RESISTANT FINISH FOR ALUMINUM ALLOYS USING SOLUBLE INORGANIC COMPOUNDS & ANODIZING PROCESS
AD-432321 N64-18770 11-19

PARTICLE SIZE SEPARATION OF TITANIUM DIOXIDE PIGMENTS
NASA-CR-78 N64-23912 16-17

PIGMENTS FOUND IN PHOTOSYNTHETIC MICROORGANISMS, AND ELECTRON SPIN RESONANCE SIGNALS
AD-602394 N64-32295 23-16

ELECTRON PARAMAGNETIC RESONANCE OF CHOROPHYLL AND OTHER PIGMENTS
JPRS-26915 N64-32749 24-25

PILOT
STANDARD PERFORMANCE CRITERIA FOR AIRBORNE AUTOPILOT/COUPLER EQUIPMENT FOR USE WITH INSTRUMENT LANDING SYSTEMS
RTCA-31-63/DO-110 N64-10421 01-22

EFFECTS OF MILD HYPOXIA ON HEMOGLOBIN FRACTION CHANGES IN BLOOD OF PILOTS
REPT.-63-2 N64-10433 01-16

PILOTING ERRORS AND AIRCRAFT INSTRUMENTS
RSIC-89 N64-12238 03-14

VOCATIONAL INTERESTS OF AIRLINE PILOT CANDIDATES
N64-12752 04-14

GEOGRAPHIC ORIENTATION & DISORIENTATION OF AIRCRAFT PILOTS

TR-751-1 N64-13608 05-14

DESIGN OF INTEGRATED PILOT-CONTROLLER SYSTEM FOR EMERGENCY CONDITIONS
RTD-TDR-63-4092 N64-15497 07-22

USE OF GRAPHOLOGY FOR SELECTION OF MILITARY PILOTS N64-16206 08-08

SIMULATION OF LIFT-INDUCED ACCELERATION AND TRUE SPEED ON PILOT OPINION OF LONGITUDINAL FLYING QUALITIES
ASD-TDR-63-399 N64-16647 08-10

GEMINI LAUNCH VEHICLE PILOT SAFETY PROGRAM
TOR-169/3126/-10 N64-18040 10-30

AUTOPILOT DESIGN FOR OPTIMUM CONTROL OF AERO-DYNAMICALLY UNSTABLE BOOSTER
RES. REPT.-63-RC-8 N64-18474 10-06

PILOT ACCEPTANCE FACTORS FOR ALL-WEATHER LANDING SYSTEM
NASA-CR-34 N64-18951 11-10

VISUAL AIDS FOR AIRCRAFT PILOTS TO AVOID MID-AIR COLLISIONS
FAA-RD-64-2 N64-20440 13-22

FLEXIBLE FLIGHT VEHICLE TRANSFER FUNCTION FACTORS FOR USE IN AUTOPILOT DESIGN
RTD-TDR-63-4218 N64-21093 14-22

NONLINEAR FLIGHT CONTROL SYSTEMS - SIMPLIFIED PITCH RATE AUTOPILOT AND HIGH GAIN ADAPTIVE PITCH RATE AUTOPILOT
ASD-TDR-62-369 N64-21708 15-09

METEOROLOGY AND THE PILOT - ATMOSPHERIC CONDITION EFFECT ON FLIGHT PARAMETERS
FTD-TT-63-620/1&2 N64-22038 15-21

PARAMETERS OF MATHEMATICAL MODELS OF HUMAN PILOTS
NASA-CR-56362 N64-24040 16-14

MEASURED VARIATION IN TRANSFER FUNCTION OF HUMAN PILOT
NASA-RP-206 N64-25000 17-16

STABILITY OF AIRCRAFT ON NORTHERLY HEADINGS CONTROLLED BY AILERON STEERING AUTOPILOT MONITORED FROM GYROMAGNETIC COMPASS
ARC-R&M-3356 N64-25073 17-04

THEORY AND DATA REDUCTION METHOD FOR PILOT-STATIC TECHNIQUE OF UPPER ATMOSPHERE MEASUREMENT
NASA-CR-56411 N64-25771 17-12

PILOT EVALUATION OF DYNAMIC STABILITY CHARACTERISTICS OF SUPERSONIC TRANSPORT IN CRUISING FLIGHT USING FIXED-BASE SIMULATOR
NASA-TN-D-2436 N64-28328 20-04

DECOMPRESSION SICKNESS OF PILOT IN UNPRESSURIZED AIRCRAFT IN TROPOSPHERE
FPRC-MEMO-199 N64-29768 21-16

INFLUENCE OF AUTOMATIC PILOT ON FLIGHT SAFETY AND DYNAMICS OF FLEXIBLE AIRCRAFT IN ATMOSPHERIC TURBULENCE N64-30228 22-04

ADVANCED AIRCRAFT SIMULATOR FOR PILOT TRAINING
NASA-RP-337 N64-31214 22-10

FLIGHT SIMULATION AND EFFECTS OF SEVERE AIR TURBULANCE ON JET AIRLINE PILOTS
NADC-ML-6411 N64-31666 23-14

PILOT PERFORMANCE
HUMAN PILOT CONTROL OF AIRCRAFT - BIBLIOGRAPHY N64-10147 01-14

PILOT PERFORMANCE & TRAINING EVALUATION BY MISSION SIMULATION FOR LONG TERM SPACE FLIGHT N64-10910 02-30

FLIGHT SIMULATOR STUDY OF VELOCITY AND ATTITUDE CONTROL SYSTEMS WITH PILOT PERFORMANCE CONSIDERATION
EWR-101-63 N64-10971 02-04

ANXIETY AND EXPERIENCE AS INFLUENCE ON PILOT PERFORMANCE IN TEST FLIGHTS OF X-15 AIRCRAFT N64-11884 03-05

PILOT BIOMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR MONITORING PERFORMANCE DURING CENTRIFUGE SIMULATIONS OF SPACE FLIGHT
NADC-MA-6308 N64-12256 03-16

PILOTAGE OF HELICOPTERS WITH REACTION CONTROL N64-13499 05-14

ANTIEMETICS, TRANQUILIZERS, SEDATIVES, AND ANALEPTICS INFLUENCE ON PILOT PERFORMANCE N64-15041 07-16

HUMAN TOLERANCE AND PILOT PERFORMANCE DURING LONG ACCELERATIONS IN CENTRIFUGE N64-15106 07-14

HUMAN ENGINEERING, TOLERANCE, AND PERFORMANCE IN SIMULATED SPACE FLIGHTS AND HIGH ALTITUDES N64-15107 07-16

PILOT REACTION TO HIGH SPEED ROTATION
NASA-RP-133 N64-15841 07-14

FLIGHT OPERATIONAL TESTS OF PILOT VISUAL APPROACH AND LANDING AIDS
AGARD-431 N64-16291 08-10

ACCURACY LIMITATIONS FOR PILOT-TONE TIME-BASE CORRECTION SYSTEM BY ADDITION OF STABLE SINUSOID
SSD-TDR-64-9 N64-16447 08-08

MEASURED HUMAN TRANSFER FUNCTIONS - MATCHING ANALOG SIMULATION TO PILOT PERFORMANCE DURING 1 & 2-AXIS TASKS WITH & WITHOUT COCKPIT MOTION
NASA-TN-D-2177 N64-17157 09-14

ATMOSPHERIC TURBULENCE EFFECT ON PILOTS AND AIRCRAFT AT LOW ALTITUDE
AGARD-441 N64-17541 09-11

MULTIPLE REGRESSION ANALYSIS OF HUMAN PILOT DYNAMIC RESPONSE
ASD-TDR-63-618 N64-18787 11-20

PILOT PERFORMANCE DURING BOOST OF X-15A AIRCRAFT TO HIGH ALTITUDE
NASA-TN-D-2289 N64-19002 11-14

INSTRUMENTATION TO AID PILOT PERFORMANCE IN AIRCRAFT GUIDANCE
NOTS-TP-3330 N64-21811 15-10

AIRLINE PILOT EYE MOVEMENTS DURING TAKEOFF AND LANDING IN VISUAL METEOROLOGICAL CONDITIONS
ARL/HE-15 N64-22133 15-16

PILOT AND AIRCRAFT - PSYCHOPHYSIOLOGICAL FACTORS IN HUMANS WHEN CONTROLLING AIRCRAFT
FTD-TT-63-276/1&2 N64-22188 15-04

PILOT PERFORMANCE REQUIREMENTS IN LIFTING BODY AND REENTRY VEHICLES IN HYPERSONIC AND SUBSONIC FLIGHTS
NASA-TM-X-56005 N64-22440 15-16

PILOT PERFORMANCE AT SIMULATED LOW ALTITUDE HIGH SPEED FLIGHT
NASA-CR-63 N64-23237 16-04

PILOT PERFORMANCE DURING MERCURY SYSTEMS FAILURE
AIAA PAPER-64-222 N64-23609 16-14

CONTINUOUS MODEL MATCHING TECHNIQUES APPLIED TO PARAMETER DETERMINATION OF TIME VARYING HUMAN PILOT MODELS
NASA-CR-56374 N64-23993 16-14

EFFECTS OF HIGH SUSTAINED ACCELERATION ON PILOT PERFORMANCE AND DYNAMIC RESPONSE
NASA-TN-D-2067 N64-24815 17-16

MEASURING PILOT PERFORMANCE AND CONTROL IN FLIGHT TASK SIMULATOR
IAM-TM-226 N64-25828 17-14

HUMAN BEHAVIOR - RELATION OF CONSISTENCY AND STRENGTH OF LATERAL PREFERENCE IN ONE-HAND TASKS TO AIRCRAFT PILOT PERFORMANCE
FPRC/MEMO-203 N64-26000 18-14

PILOT PERFORMANCE IN FLIGHT SIMULATORS & AIRCRAFT
AIAA PAPER-64-554 N64-26575 18-10

AUTOMATIC COMPUTER METHODS FOR DETERMINING PARAMETERS OF HUMAN PILOT PERFORMANCE DESCRIBED BY LINEAR TIME-INVARIANT MODEL
NASA-CR-56373 N64-27385 19-14

INFORMATION DISPLAY STUDY TO AID IN PILOT PERFORMANCE DURING ALL-WEATHER AIRCRAFT LANDING
NASA-CR-58030 N64-27814 19-22

PILOT PERFORMANCE AND PHYSIOLOGICAL RESPONSE TO SIMULATED LOW-ALTITUDE HIGH-SPEED FLIGHT
N64-28948 20-14

INTERVENING LEVELS OF CONTROL BETWEEN FULL MANUAL AND FULL AUTOMATIC - EFFECT UPON PILOT PERFORMANCE
AD-441953 N64-30199 21-14

ONBOARD TRAINING FOR MAINTAINING PILOT PROFICIENCY FOR EXTENDED SPACE FLIGHTS
NASA-TN-D-2162 N64-33080 24-14

PILOT PLANT
PILOT LINE FOR FABRICATION OF SILICON CARBIDE RECTIFIERS - CRYSTAL GROWTH AND PROCESSING
ASD-IR-7-727-10 N64-28678 20-25

PILOTED AIRCRAFT
PILOTED FLIGHT SIMULATORS FOR TAKEOFF AND LANDING RESEARCH
AGARD-430 N64-11910 03-10

PILOT AND AIRCRAFT - PSYCHOPHYSIOLOGICAL FACTORS IN HUMANS WHEN CONTROLLING AIRCRAFT
FTD-TT-63-276/1&2 N64-22188 15-04

PINCH EFFECT
PYROTRON, ASTRON, LIVERMORE PINCH, AND PLASMA PHYSICS PROGRAMS
UCRL-10852 N64-10317 01-24

STEADY STATE CONDITIONS OF HIGH TEMPERATURE AND PINCH EFFECT IN LONGITUDINAL MAGNETIC FIELD
FTD-TT-63-373/1&2&4 N64-19218 11-24

FINITE RESISTIVITY INSTABILITIES OF SHEET PINCH WITH FIRST ORDER GYRATION RADIUS CORRECTIONS
MATT-258 N64-22117 15-23

EQUILIBRIUM OF TOROIDAL PINCH IN MAGNETIC FIELD
FTD-TT-63-374/1&2&4 N64-22648 15-23

PINCH EFFECT GENERATOR AND PULSE FORMING CIRCUIT
NASA-CR-58567 N64-29689 21-24

PION
LOW-ENERGY NEGATIVE PION INTERACTIONS IN DEUTERIUM
UCRL-10977 N64-11475 03-23

NONELASTIC NUCLEON AND PION REACTIONS WITH COMPLEX NUCLEI N64-12541 04-23

DETERMINATION OF CHARACTER OF HIGHER RESONANCES IN PION-PHOTOPRODUCTION AND PROTON COMPTON EFFECT BY USING POLARIZED GAMMA RAYS
LNF-63/66 N64-13176 04-23

PION-PRODUCTION RATE IN HYDROGEN AND BERYLLIUM
SLAC-21 N64-13380 04-23

NEUTRINOS FROM PIONS AND KAONS PRODUCED BY PROTONS HITTING BERYLLIUM TARGET N64-15504 07-23

BUBBLE CHAMBER NEUTRINO EXPERIMENTS - PION & MUON PRODUCTION AND BOSON MASS DETERMINATION
N64-15506 07-23

HIGH INTENSITY MUON BEAM WITH LOW PION CONTAMINATION AT THE CERN SYNCHROCYCLOTRON
CERN-63-35 N64-15616 07-23

ABSORPTION COEFFICIENTS FOR PHASE SHIFT ANALYSIS OF PION SCATTERING IN PION-PION ENERGY LEVEL
RIFP-30 N64-15772 07-23

HIGH ENERGY PHASE SHIFT ANALYSIS OF PION-PION INTERACTION AT 970 MEV
RIFP-31 N64-15773 07-23

FORWARD DIFFERENTIAL CROSS SECTION FOR PION ELASTIC CHARGE-EXCHANGE SCATTERING
UCRL-11150 N64-17836 09-23

PION-PROTON ELASTIC SCATTERING IN 300- TO 700-MEV ENERGY RANGE
UCRL-11180 N64-17978 10-23

BOOTSTRAP APPROXIMATION TO PREDICT PI-ETA MESON RESONANCE
UR-875-5 N64-19486 12-23

RADIATIVE DECAY OF KAON TO PRODUCE TWO PIONS AND GAMMA RADIATION
UR-875-30 N64-19487 12-23

BOSON POLE APPROXIMATION FOR EXPLAINING THREE PION DECAY MODES OF KAONS AND FOR NEUTRAL KAON-2 MINUS NEUTRAL KAON-1 MASS DIFFERENCE
UR-875-29 N64-19906 12-23

CROSS SECTION OF PION NUCLEAR SCATTERING
AD-437662 N64-25029 17-23

USE OF LINEAR ACCELERATOR FOR PRODUCTION OF PIONS
LNF-64/16 N64-25647 17-23

DECAY OF VECTOR MESONS & KAONS TO YIELD PIONS AND MASS DIFFERENCE OF TWO KAONS
UR-875-35 N64-25995 18-23

ANALYSIS OF PION-PION REACTION PRODUCING DEUTERON AND VECTOR MESON - NUCLEAR ELECTROMAGNETIC REACTION
TH-56 N64-26046 18-23

ENERGY DEPENDENT PION-NUCLEON PHASE SHIFT ANALYSIS AND COMPARISON OF SOLUTION WITH PION-NUCLEON SCATTERING DATA
UCRL-7846 N64-28699 20-23

BUBBLE CHAMBER INVESTIGATION OF PION-PROTON INTERACTION AT 4 GEV/C N64-30617 22-23

ANALYSIS OF PI PLUS PROTON ELASTIC SCATTERING USING PARTIAL WAVE EQUATION
SLAC-PUB-28 N64-32412 23-23

PION BEAM
FORTRAN PROGRAM FOR CALCULATION OF PI-BEAM TARGET SPUTTERING IN CIRCULAR ACCELERATOR AND DETERMINING MU-BEAM OF IN-FLIGHT SECONDARY DISINTEGRATION
CERN-63-30 N64-12419 04-20

PIONEER I SPACE PROBE
PIONEER I OBSERVATIONS OF LONG-PERIOD MAGNETIC OSCILLATIONS
NASA-RP-123 N64-13028 04-29

PIONEER V SPACE PROBE
ANALYSIS OF EXPLORER VI & PIONEER V DATA ON RADIATION BELTS & GEOMAGNETIC FIELD
NASA-CR-55104 N64-12159 03-32

EXPLORER VI AND PIONEER V DATA REDUCTION AND ANALYSIS
NASA-CR-55802 N64-17677 09-32

MEASUREMENTS OF MAGNETIC FIELD IN GEOMAGNETIC CAVITY AND INTERACTION REGION BETWEEN SOLAR WIND MAGNETOSPHERE BY PIONEER V SPACE PROBE
NASA-CR-58961 N64-33040 24-28

PIPE
PRODUCTION OF HOT-ROLLED SEAMLESS, WELDED & BRAZED STEEL PIPE - CORROSION PREVENTIVE PIPE COVERING
JPRS-19703 N64-11129 02-17

RADIANT HEAT TRANSFER TO ABSORBING GRAY GASES IN CIRCULAR PIPE WITH CONDUCTION, GAS FLOW, AND INTERNAL HEAT GENERATION
NASA-TR-R-156 N64-11559 03-13

FLOW OF RESILIENT-VISCOUS LIQUID IN PIPES OF RING, ROUND, AND SLIT CROSS SECTION N64-11981 03-02

PRODUCTION OF THICK WALLED, LARGE DIAMETER PIPES FROM CHROMIUM-NICKEL-TITANIUM STAINLESS STEEL
JPRS-22444 N64-12011 03-17

STRESSES IN MITRED PIPE JOINT DUE TO INTERNAL PRESSURE OR PURE BENDING
NAL-TN-SA-4-63 N64-18393 10-33

HEAT EMISSION DURING CONDENSATION OF MOVING STEAM IN SINGLE HORIZONTAL PIPE
FTD-TT-64-301/1&2 N64-26116 18-13

PRESSURE DROP DATA OBTAINED FOR HORIZONTAL PIPE AND PIPING COMPONENTS
HW-80970, REV. 1 N64-27655 19-11

COMPUTER PROGRAM FOR PIPING FLEXIBILITY ANALYSIS - EFFECTS OF PRESSURE, THERMAL EXPANSION, UNIFORM LOADING, AND CONCENTRATED LOADING
LA-2929 N64-28720 20-17

FORCE CONDITIONS DURING PRESSING OF PIPES WITH ARBITRARY INTERNAL RELIEF N64-31422 23-17

ACOUSTIC STUDY OF PIPE ARRAY FOR REDUCTION OF WIND NOISE N64-32257 23-08

PIPELINE
PLASTIC & GLASS REINFORCED PLASTIC FOR SHIPBOARD PIPELINES
TDCK-36363 N64-32019 23-19

PISTON
TRANSMISSION OF HYDRAULIC POWER USING PULSATING FLOW - PISTON TRANSFORMER WITH FLUID REPLENISHMENT UNIT
RAC-933-3 N64-14107 05-11

PISTON MOTION IN HYPERSONIC GUN TUNNEL - MICROWAVE MEASUREMENT
CP-4 N64-15926 07-08

CALCULATING RETARDATION TEMPERATURE IN HYPERSONIC WIND TUNNEL WITH MOVABLE PISTONS
FTD-TT-63-312/1&2 N64-16364 08-10

PISTON MOTION OF HYDRAULIC SERVOSYSTEM
N64-23558 16-11

MECHANICAL NOISE DUE TO PISTON SLAP IN RECIPROCATING MACHINERY
REPT.-1106 N64-24954 17-17

PISTON MOTION IN HYPERSONIC GUN TUNNEL
CP-5 N64-27371 19-10

EXPERIMENTAL LIQUID HYDROGEN PISTON PUMP
R-5730 N64-33963 24-17

PISTON ENGINE
TURBULENT GAS FLOW IN PISTON ENGINES - HOT-WIRE ANEMOMETER MEASUREMENTS N64-13416 05-26

FREE PISTON COMPRESSION FOR DRIVING HIGH ENTHALPY SHOCK TUBES - MINIMIZATION OF HEAT LOSS
NASA-CR-53059 N64-15790 07-11

PISTON THEORY
SOLUTION FOR MOTION OF PISTON - GAS DYNAMICS
N64-27985 20-11

PITCHING MOMENT
PITCHING DERIVATIVES FOR GOTHIC WING OSCILLATING WITH LEADING EDGE SEPARATION
CP-695 N64-14158 05-03

TUNNEL WALL INTERFERENCE EFFECTS ON DRAG AND PITCHING MOMENT OF AXISYMMETRIC BODY
TM-501.8871-02 N64-15582 07-10

PITCHING AND YAWING MOTION OF SPINNING SYMMETRIC BLUNT-NOSED MISSILE AT HYPERSONIC SPEED
NASA-TN-D-2135 N64-17734 09-30

EFFECTS OF SPANWISE VARIATION OF LEADING EDGE SWEEP ON LIFT, DRAG, & PITCHING MOMENT OF WING-BODY COMBINATION AT TRANSONIC SPEEDS
NASA-TN-D-2236 N64-17991 10-02

HEAVE AND PITCH RESPONSE OF FULLY WETTED SURFACE-PIERCING DIHEDRAL HYDROFOIL IN IRREGULAR SEAS
AD-436567 N64-18911 11-03

LIFT AND PITCHING MOMENT ON FOUR OGEE WINGS AT SUPERSONIC SPEED
ARC-CP-673 N64-24926 17-03

METHOD OF TEST AND RESULTS FOR PITCH AND YAW ON CAMBERED OGEE WING AT SUPERSONIC SPEEDS
ARC-R&M-3355 N64-25495 17-03

EXPERIMENTAL MEASUREMENTS OF PITCH AND HEAVE AMPLITUDES OF GROUND EFFECT MACHINE DURING FLIGHT OVER REGULAR FOLLOWING WAVES
DTNB-AERO-1074 N64-31663 23-11

PITOT-STATIC TUBE
PITOT-STATIC PROBE FOR MEASURING STAGNATION PRESSURE AND UNDISTURBED STATIC PRESSURE ON SUBSONIC AND SUPERSONIC AIRCRAFT
RAE-TRANS-1032 N64-16318 08-11

PITOT TUBE
FLOW DIRECTION AND PITOT PRESSURE SENSOR
NASA-CR-52286 N64-10098 01-06

PITOT PRESSURE SURVEY OF LOW DENSITY, HYPERSONIC GAS FLOWS FROM EACH OF TWO CONICAL HYPERSONIC, CRYOGENIC PUMPING NOZZLES
ERR-AN-349 N64-16856 08-02

SURFACE PITOT TUBE AS SKIN FRICTION METERS IN SUPERSONIC TURBULENT BOUNDARY LAYERS
ARC-R&M-3351 N64-18153 10-15

SKIN FRICTION MEASUREMENTS USING SURFACE PITOT TUBES IN FREE FLIGHT AT SUPERSONIC SPEEDS
ARC-CP-711 N64-18327 10-11

PITUITARY GLAND
THIOL-ACTIVATED AMINOPEPTIDASE OF PITUITARY EXTRACT
NASA-RP-55 N64-10293 01-16

MORPHOLOGICAL CHANGES IN ANTERIOR LOBE OF PITUITARY GLAND, THYMUS, & ADRENAL GLAND UNDER IRRADIATION AND COOLING
JPRS-20037 N64-11320 02-16

ALPHA PARTICLE AND PROTON BEAMS IN RADIATION THERAPY OF PITUITARY GLAND TUMORS AND ADENOMA
N64-15205 07-16

EFFECT OF ANESTHESIA ON STRESS REACTION OF RAT PITUITARY AND ADRENAL GLANDS N64-31344 23-16

PIVOTED WING
DRY RESIN BONDED SOLID FILM LUBRICANTS FOR WING PIVOTS
FTDM-3113 N64-20051 13-17

PLANCK EQUATION
EXPANSION OF PHASE SHIFTS IN POWERS OF SQUARE OF PLANCK CONSTANT
WIS-TCI-9, SER. 2 N64-23021 16-23

PLANE
SA SURFACE
MUTUAL COHERENCE OF PLANE QUASI-MONOCHROMATIC SOURCE IN INHOMOGENEOUS MEDIUM N64-13430 05-23

FACTORS AFFECTING ACCURACY OF GROUND PLANE MEASUREMENTS N64-24715 17-08

PHASE PLANE THEORY OF TRANSISTOR BISTABLE CIRCUITS
REPT.-137 N64-26851 18-09

PHENOMENOLOGICAL THEORY OF MULTI-MODE SURFACE WAVE EXCITATION PROPAGATION, AND DIFFRACTION - PLANE STRUCTURES

EM-198 N64-26881 18-08

RADIATION FROM LINEAR SOURCE IN GROUND PLANE COVERED BY WARM PLASMA SLAB
ATN-64/9230/-3 N64-28161 20-24

STABILITY OF SINGULAR POINT ON A PLANE
FTD-MT-63-327 N64-28174 20-20

THEORY OF PLANE ELASTICITY WITH REFERENCE TO SOME OBLIQUE COORDINATES N64-28522 20-33

NONSTATIONARY, ONE-DIMENSIONAL HEAT FLOW IN LEVEL PLANE, CYLINDER, SPHERE, AND SEMIINFINITE BODY BY FOURIER EQUATIONS N64-32182 23-13

PLANE WAVE
SOUND SCATTERING OF STEADY STATE PLANE WAVE BY HOLLOW CYLINDER OF ARBITRARY THICKNESS - SUBMARINE DETECTION
RM-223 N64-10538 01-23

DIFFRACTION OF PLANE SOUND WAVES BY ACOUSTICALLY PENETRABLE OBLATE SPHEROID
USCEC-82-213 N64-11449 03-23

EXACT SOLUTIONS FOR WINGS HAVING ONE AND TWO ATTACHED PLANE SHOCK WAVES AT HYPERSONIC SPEEDS
RAE-TRANS-1044 N64-12904 04-03

ORTHOGONALIZED PLANE WAVE ENERGY-BAND STRUCTURE OF SOLIDS DETERMINED BY AUTOMATIC COMPUTER PROGRAM
LL-TR-295 N64-12928 04-23

MATHEMATICAL SOLUTION FOR REFLECTION AND TRANSMISSION OF PLANE COMPRESSIONAL WAVES
AFCRL-64-205 N64-15684 07-23

AUGMENTED PLANE WAVE METHOD FOR CALCULATING ENERGY BANDS IN CRYSTAL STRUCTURES N64-18658 11-25

SPECULAR REFLECTION OF PLANE WAVE BY PLASMA-CLAD CONDUCTING BODY OF REVOLUTION
RCA-DTM-63-05 N64-20568 13-24

ABSORPTION AND SCATTERING COEFFICIENTS OF PLANE ELECTROMAGNETIC WAVE IMPINGING ON SPHERICAL SHELL N64-22839 16-09

PLANE ELECTROMAGNETIC WAVE SHIELDING N64-22840 16-09

PLANE WAVE EXPANSION THEOREM FOR CYLINDRICALLY RADIATED FIELDS
EM-199 N64-25757 17-23

PROPAGATION OF SURFACE WAVES ALONG INFINITE, PERFECTLY CONDUCTING PLANE SURFACE COATED WITH PLASMA LAYER AND SUBJECTED TO DC MAGNETIC FIELD
REPT.-1565-6 N64-29413 21-08

INCIDENCE OF PLANE WAVES ON INTERFACE BETWEEN VACUUM AND INHOMOGENEOUS ABSORBING MEDIUM N64-29466 21-09

DAMPING AND POLARIZATION OF PLANE MAGNETOHYDRODYNAMIC WAVES
ARL-63-195 N64-31272 22-24

SCATTERING OF PLANE WAVES ON SURFACE OF INFINITE REGION N64-31746 23-23

TRANSIENT REFLECTION AND TRANSMISSION OF PLANE WAVE NORMALLY INCIDENT UPON SEMIINFINITE ANISOTROPIC PLASMA
AFCRL-64-550 N64-32110 23-24

PLANET
SA ALBEDO
SA MARS /PLANET/
SA MERCURY /PLANET/
SA SATURN /PLANET/
OBSERVATIONS OF MINOR PLANETS, COMETS, ECLIPSING BINARY STARS, AND DOUBLE STARS - ORBIT MEASUREMENT N64-10321 01-05

PHOTOGRAPHIC STUDY OF VENUS, MARS, JUPITER, SATURN, MOON, ASTEROID 1580, & OTHER OBJECTS
NASA-CR-52850 N64-11294 02-05

EQUATIONS OF EQUAL PLANET SYSTEM VIEWED FROM SURFACE WAVE N64-13575 05-14

PLANETARY AND LUNAR RESEARCH IN THE PHOTOGRAPHIC INFRARED, VISIBLE, AND ULTRAVIOLET SPECTRA
SAR-5 N64-14359 06-05

INTERNAL STRUCTURES OF MOON AND INNER PLANETS N64-15183 07-29

RADIOASTRONOMICAL OBSERVATIONS OF MOON AND PLANETS N64-15289 07-05

PLANETARY ENTRY SIMULATION IN COMBUSTION HYPER-VELOCITY WIND TUNNEL N64-17018 09-14

MAGNETIC TAPE SYSTEM FOR EPHEMERIDES OF MOON AND PLANETS
NASA-CR-53218 N64-17223 09-05

AERODYNAMIC CHARACTERISTICS OF TWO PLANETARY ENTRY CONFIGURATIONS IN AIR & CARBON DIOXIDE/NITROGEN MIXTURES AT HYPERSONIC SPEED
NASA-CR-53232 N64-17575 09-02

METHOD OF AVERAGES IN CELESTIAL MECHANICS - FORMULAS FOR EFFECTS OF OBLATE PLANET ON SATELLITE ORBIT
NASA-CR-53530 N64-18217 10-05

TRANSFORMATION OF PLANETARY COORDINATES N64-18227 10-29

INTERNAL STRUCTURE, COMPOSITION, AND CONDITIONS OF PLANETS N64-22265 15-05

NONLIVING ASTRONAUT FOR EXPLORATION OF MOON AND PLANETS N64-23645 16-30

EPHEMERIS MAGNETIC TAPES INCLUDING LOCATIONS, SPEEDS, & NUTATIONS OF MOON & PLANETS
NASA-CR-56285 N64-23950 16-29

DENSITY DISTRIBUTION IN ION-EXOSPHERE OF NONROTATING PLANET
NASA-CR-56233 N64-23990 16-28

ASTRONOMY & PLANETS IN SOLAR SYSTEM
FTD-TT-62-7/1&2&3&4 N64-24489 17-05

PLANETS N64-24491 17-05

FLIGHTS TO MOON & PLANETS N64-24495 17-17

LIFE ON PLANETS OF OTHER SUNS N64-24503 17-05

PHYSICAL CONDITIONS ON MOON & PLANETS N64-24653 17-05

X-RAY EMISSION OF POLAR AURORA ZONE OF PLANET
NASA-TT-F-8901 N64-25285 17-13

VENUS AND MARS ATMOSPHERE ENTRY SIMULATED BY COMBUSTION HEATED HYPERVELOCITY WIND TUNNEL
NASA-CR-56461 N64-25690 17-11

EPHEMERIDES OF MOON, PLANETS, AND THEIR SATELLITES FOR YEAR 1965 N64-26551 18-05

EPHEMERIS OF MINOR PLANETS N64-26554 18-05

LUNAR AND PLANETARY STUDIES
NASA-CR-56888 N64-27303 19-05

INTERNAL STRUCTURE AND CHARACTERISTICS OF HYDROGEN PLANETS - EQUATIONS OF STATE OF HYDROGEN AT HIGH PRESSURES N64-28377 20-27

COSMOGONY OF PLANETARY SYSTEM AND EVOLUTION OF SUN N64-28378 20-29

PHOTOGRAPHIC AND VISUAL OBSERVATIONS OF MOON AND PLANETS
NASA-CR-58617 N64-28997 20-29

ESSENTIAL NONLINEAR DEPENDENCES IN PHYSICAL MODELS OF PLANETS N64-29088 21-05

PLANETARY AND LUNAR PHOTOGRAPHY IN INFRARED,

VISIBLE, AND ULTRAVIOLET
FR-7 N64-29577 21-05

NEAR INFRARED POLARIMETER OBSERVATIONS OF PLANETS BY RADIO TELESCOPE
AFCRL-64-693 N64-32477 23-05

GEOMAGNETIC FIELD BENEATH EARTH SURFACE AND ESTIMATES OF LUNAR AND PLANETARY FIELDS
P-2978 N64-33012 24-12

RADAR LOCATION OF PLANETS
NASA-TT-F-8973 N64-33381 24-10

PLANETARY ATMOSPHERE
SA MARS ATMOSPHERE
LARGE AMPLITUDE OSCILLATIONS OF VEHICLES ENTERING PLANETARY ATMOSPHERES N64-10082 01-02

CONVECTIVE HEATING IN NITROGEN AND CARBON DIOXIDE PLANETARY ATMOSPHERES
RAD-TM-63-72 N64-10315 01-13

ULTRAVIOLET SPECTROSCOPY OF PLANETARY ATMOSPHERES
NASA-CR-52461 N64-10461 01-29

WEATHER FORECASTING - FLUCTUATION & DEFORMATION OF HIGH-ALTITUDE PLANETARY FRONTAL ZONES, COMPUTING ALTITUDE OF 500-MILLIBAR SURFACE
JPRS-22741 N64-13467 05-21

FLUCTUATIONS OF HIGH-ALTITUDE PLANETARY FRONTAL ZONES DURING NATURAL SYNOPTIC PERIODS - WEATHER FORECASTING N64-13468 05-21

FORECASTING DEFORMATION OF HIGH-ALTITUDE PLANETARY FRONTAL ZONE DURING NATURAL SYNOPTIC PERIODS N64-13470 05-21

TENUOUS PLANETARY ATMOSPHERE DETECTION INSTRUMENTS
NASA-CR-55379 N64-14285 06-23

IONOSPHERIC RESEARCH - PHYSICS, DYNAMICS, & AERONOMIC PROPERTIES OF EARTH & PLANETARY ATMOSPHERE
AFCRL-63-931 N64-14972 06-12

RADIO AND RADAR STUDIES OF LUNAR AND PLANETARY IONOSPHERES, ATMOSPHERES, AND SURFACES
NASA-CR-53205 N64-17592 09-05

AERONOMY - STUDIES IN PLANETARY ATMOSPHERE
NASA-CR-53559 N64-18306 10-29

EXPERIMENTS & RESEARCH IN ASTRONOMY, SOLAR PHYSICS, PLANETARY ATMOSPHERES, IONOSPHERES & RADIO PHYSICS, PARTICLES & FIELDS, AND BIOSCIENCES
NASA-TM-X-51603 N64-19258 11-01

PLASMA PHYSICS, RADIATIVE AND CONVECTIVE HEAT TRANSFER IN PLANETARY ATMOSPHERES, STELLAR STRUCTURE, AND GALACTIC DYNAMICS
NASA-CR-53869 N64-19954 12-05

FORBIDDEN REGIONS FOR FORMATION OF CLOUDS IN PLANETARY ATMOSPHERE
RM-4084-PR N64-20166 13-21

BREAKING WAVES, AEROSOLS, AND OZONES IN EARTH AND OTHER PLANETARY ATMOSPHERES
NASA-CR-56134 N64-20724 13-29

REFLECTION AND EMISSION OF ELECTROMAGNETIC RADIATION BY PLANETARY SURFACES AND CLOUDS
NASA-CR-52222 N64-22770 16-28

EMERGENT ORGANIC CHEMISTRY UNDER VARIOUS PLANETARY CONDITIONS - ABIOGENESIS, PLANETARY ATMOSPHERES, PLANTS, CHROMOSOMES, & FERTILIZATION PHYSIOLOGY
NASA-CR-56526 N64-22787 16-16

LIGHT SCATTERING IN PLANETARY ATMOSPHERE
NASA-TT-F-8814 N64-23124 16-29

CONVECTIVE HEAT TRANSFER IN PLANETARY ATMOSPHERE
NASA-CR-56972 N64-25775 17-29

ELECTROMAGNETIC AND CORPUSCULAR RADIATION, METEOROID FLUX, AND PLANETARY ATMOSPHERES
NASA-CR-58136 N64-26370 18-29

PLANET STUDY BY MEANS OF POLARIZATION OF THEIR LIGHT
NASA-TT-F-188 N64-26419 18-05

RADIATIVE EQUILIBRIUM IN PLANETARY ATMOSPHERES - APPLICATION OF STRONG LINE ABSORPTION LAW TO ATMOSPHERE OF VENUS
NASA-TN-D-2397 N64-27739 19-05

TEMPERATURE AND ELECTRON DENSITY COMPUTATIONS FOR UPPER ATMOSPHERE OF JUPITER USING TWO EXTREME ATMOSPHERE MODELS
NASA-TM-X-51917 N64-28762 20-29

SOLAR TELESCOPE OBSERVATIONS AND AEROBEE ROCKET STUDIES OF PLANETARY ATMOSPHERE N64-28862 20-10

SPECTROSCOPIC STUDY OF SOLAR AND PLANETARY ATMOSPHERES
NASA-CR-58772 N64-33173 24-29

DETECTION TECHNIQUES FOR TENUOUS PLANETARY ATMOSPHERES - CHEMISORPTION DETECTORS FOR HYDROGEN AND WATER VAPOR
NASA-CR-59285 N64-33336 24-07

RADIO AND RADAR STUDIES OF LUNAR AND PLANETARY IONOSPHERES, ATMOSPHERES, AND SURFACES, AND RADAR STUDIES OF SUN AND INTERPLANETARY MEDIUM
NASA-CR-59325 N64-33686 24-28

PLANETARY BASE
DESIGN PROBLEMS CONNECTED WITH CONSTRUCTION OF BASING FACILITIES ON MARS
P-2747 N64-16289 08-10

EXPLORATORY BASES FOR MARS N64-30731 22-10

PLANETARY CONSTITUTION
INTERNAL STRUCTURE, COMPOSITION, AND CONDITIONS OF PLANETS N64-22265 15-05

CHEMICAL COMPOSITION OF PLANETS N64-24763 17-29

PLANETARY ENVIRONMENT
CF EXTRATERRESTRIAL ENVIRONMENT
NUMBER OF PLANETS WITH ENVIRONMENTAL CONDITIONS SUITABLE FOR HUMAN HABITATION
R-414-PR N64-20315 13-29

BIOLOGY IN PLANETARY & SPACE ENVIRONMENTS - AMINO ACID AND PROTEINOID STUDIES
NASA-CR-50483 N64-22775 16-16

TERRESTRIAL MICROORGANISMS IN SIMULATED PLANETARY ENVIRONMENT - MARS AND MOON
NASA-CR-56529 N64-22790 16-16

RADIATIVE TRANSPORT OF HEAT IN LUNAR AND PLANETARY INTERIORS AND SURFACES
D1-82-0328 N64-23216 16-29

SURVIVAL OF BACILLUS SUBTILIS IN SIMULATED MARTIAN ENVIRONMENT N64-29559 21-16

PLANETARY EXPLORATION
EMPIRE PROGRAM MARS AND VENUS FLYBY MISSION
NASA-CR-52677 N64-10907 02-29

INTERFERENTIAL CALCULATION OF STABILIZED OBJECTIVE FOR TELESCOPIC PLANETARY EXPLORATION N64-13449 05-23

LUNAR & PLANETARY EXPLORATION N64-13701 05-01

LUNAR, PLANETARY, & INTERPLANETARY SPACE PROGRAMS
NASA-CR-53069 N64-15791 07-32

COST ANALYSIS OF BOOSTER COMBINATIONS FOR PLANETARY EXPLORATION
P-2769 N64-15918 07-31

MISSION REQUIREMENTS FOR SPACE EXPLORATION OF JUPITER
NASA-CR-53987 N64-20643 13-29

SCIENTIFIC OBJECTIVES FOR MERCURY EXPLORATION MISSION
NASA-CR-58121 N64-26599 18-05

MANNED PLANETARY MISSIONS
NASA-TM-X-53049 N64-26979 19-29

FEASIBILITY OF MARS LANDING AND RETURN MISSIONS
N64-26982 19-29

MANNED MARS MISSION N64-26983 19-29

MANNED MARS LANDING AND RETURN MISSION
N64-26984 19-29

EARTH REENTRY VEHICLE FOR USE IN MANNED MARS MISSION N64-26990 19-32

PLANETARY TRANSPORTATION SYSTEM MODEL
N64-26991 19-29

BASIC PLANETARY TRANSPORTATION SYSTEM MODEL
N64-26992 19-29

INFRARED HORIZON SCANNER FOR FLY-BY PLANETARY PROBES OF MARS & VENUS
NASA-CR-56511 N64-27910 20-15

REUSABLE BOOSTER FOR LUNAR LOGISTICS AND PLANETARY EXPLORATION
DOUGLAS PAPER-1887 N64-28806 20-31

PLANETARY GRAVITATION
LOW REACTION THRUST ACCELERATION TRAJECTORY OF SPACECRAFT IN RANGE OF PLANETARY INFLUENCE
N64-31525 23-30

PLANETARY-INTERPLANETARY PROGRAM
LUNAR, PLANETARY-INTERPLANETARY PROGRAM, DEEP SPACE INSTRUMENTATION FACILITY, OPERATIONAL & TEST FACILITY, AND SPACE SCIENCES
NASA-CR-53009 N64-13263 04-32

SPACE EXPLORATION PROGRESS IN LUNAR AND PLANETARY-INTERPLANETARY PROGRAMS, DEEP SPACE INSTRUMENTATION FACILITY /DSIF/, AND SPACE SCIENCE
NASA-CR-58546 N64-28972 20-32

PLANETARY LONGITUDE
S ASTRONOMICAL COORDINATE

PLANETARY NEBULA
RELATION OF QUANTUM TRANSITION OF ELECTRON IN HYDROGEN ATOM TO PHYSICS OF PLANETARY NEBULAE
N64-19332 12-05

PHYSICS OF PLANETARY NEBULAE N64-19333 12-05

TYPES, EVOLUTION, AND MAGNETIC FIELDS OF PLANETARY NEBULAE N64-19334 12-05

LIGHT PRESSURE RESULTING FROM LYMAN ALPHA RADIATION IN PLANETARY NEBULA AND DYNAMICS OF PLANETARY NEBULAE N64-19335 12-05

LIGHT RADIATION AND ABSORPTION IN PLANETARY AND DIFFUSE GASEOUS NEBULA N64-23180 16-29

ASTRONOMICAL COORDINATES AND IDENTIFICATION CHARTS OF NEWLY DISCOVERED PLANETARY NEBULA
N64-24129 16-05

PHOTOGRAPHIC PLATES OF PLANETARY NEBULAE USED AS IDENTIFICATION CHARTS N64-26570 18-05

H-ALPHA EMISSION PLANETARY NEBULAE
N64-26571 18-05

ELEVEN NEW PLANETARY NEBULAE IN SAGITTARIUS REGION
N64-27199 19-05

PLANETARY ORBIT
RESONANCE EFFECT OF SPHERIC INERTIA ON VEHICLE ROTATING AROUND SPHERICAL PLANET
NH-TRANS-431 N64-11575 03-29

POSITION-VELOCITY EPHEMERIDES OF VENUS AND EARTH-MOON SYSTEM USING PERTURBATION METHODS
NASA-CR-53617 N64-18419 10-05

AERODYNAMIC BRAKING TRAJECTORIES FOR PLANETARY ORBIT ATTAINMENT
AIAA PAPER-64-478 N64-24165 16-04

PARAMETRIC STUDY OF CONSTANT THRUST ELECTRICALLY PROPELLED MARS AND VENUS ORBITING PROBES
NASA-TN-D-2154 N64-32402 23-32

PLANETARY ORIGIN
THEORY OF ORIGIN OF TERRESTRIAL PLANETS
NASA-CR-53089 N64-16731 08-12

ORIGIN OF PLANETARY SYSTEM
RSIC-138 N64-17657 09-05

GROWTH OF PLANETS BY ACCRETION OF BODIES UPON PLANETARY EMBRYO N64-19330 12-05

COSMOLOGY - PLANETARY ORIGINS, STELLAR EVOLUTION, VARIABLE STARS, MAIN SEQUENCE STARS, SOLAR CORONA SPECTRA, AND ELEMENT FORMATION
JPRS-24358 N64-19451 12-05

PLANETARY ORIGINS AND STELLAR EVOLUTION - SOLAR SYSTEM ORIGIN N64-19454 12-05

DISTRIBUTION OF NOBLE GAS ELEMENTS IN PLANETARY ORIGIN MODEL
RM-3977-PR N64-21034 14-05

COSMOLOGY - STELLAR AND PLANETARY EVOLUTION
JPRS-24734 N64-24759 17-29

COSMOLOGICAL HYPOTHESIS CONCERNING ORIGIN OF PLANETS FROM MASSIVE PROTOPLANETS OF GASEOUS COMPOSITION N64-24761 17-29

ACCUMULATION PROCESS OF TERRESTRIAL PLANETS
N64-24765 17-05

COSMOLOGY - PROCESS OF FORMATION OF TERRESTRIAL PLANETS N64-24766 17-29

PLANETARY SPACECRAFT
OPTICAL SENSORS FOR LUNAR AND PLANETARY SPACE VEHICLES N64-15477 07-15

VOYAGER PROJECT - SYSTEMS ANALYSIS AND PARAMETRIC STUDY OF ORBITER-LANDER SPACECRAFT FOR MARS OR VENUS MISSIONS
RAD-TM-63-17, VOL. 1 N64-20021 13-30

PLANETARY SURFACE
PLANETARY SURFACE INVESTIGATION BY ELECTROMAGNETIC RADIATION REFLECTION AND EMISSION OBSERVATION TECHNIQUES N64-16260 08-29

RADAR REFLECTION FROM PLANETARY SURFACE DESCRIBED BY COMPOSITE SURFACE CORRELATION FUNCTION
USAELRDL-TR-2314 N64-20335 13-08

REFLECTION AND EMISSION OF ELECTROMAGNETIC RADIATION BY PLANETARY SURFACES AND CLOUDS
NASA-CR-52222 N64-22770 16-28

EXTRATERRESTRIAL LIFE DETECTOR, AND AUTOMATIC PAPER CHROMATOGRAPHY DEVICE FOR ANALYSIS OF SOLUBLE CONSTITUENTS OF PLANETARY SOIL
NASA-CR-56523 N64-22783 16-14

RADIATIVE TRANSPORT OF HEAT IN LUNAR AND PLANETARY INTERIORS AND SURFACES
D1-82-0328 N64-23216 16-29

APPLICATION OF PENETROMETERS TO STUDY OF PHYSICAL PROPERTIES OF LUNAR AND PLANETARY SURFACES
NASA-TN-D-2413 N64-27120 19-15

RADIO AND RADAR STUDIES OF LUNAR AND PLANETARY IONOSPHERES, ATMOSPHERES, AND SURFACES, AND RADAR STUDIES OF SUN AND INTERPLANETARY MEDIUM
NASA-CR-59325 N64-33686 24-29

PLANFORM
BUCKLING OF PLATES TAPERED IN PLANFORM UNDER

UNIFORM STRESSES AND LOADS
ARC-R&M-3324 N64-10051 01-02

NORMAL LOAD BENDING OF PLATES TAPERED IN PLANFORM
ARC-R&M-3325 N64-10052 01-03

PLANFORM MODIFICATION EFFECTS ON SKIN FRICTION DRAG OF AIRCRAFT WING AND CONTROL SURFACES
NASA-RP-170 N64-21274 14-03

NUMERICAL METHOD FOR DESIGN OF CAMBER SURFACES OF SUPERSONIC WINGS WITH ARBITRARY PLANFORMS
NASA-TN-D-2341 N64-23034 16-03

EFFECTS OF LEADING-EDGE SWEEP ON FLUTTER CHARACTERISTICS OF DELTA-PLANFORM AT MACH 15.4
NASA-TN-D-2360 N64-24818 17-03

PLANKTON
LUMINESCENT ANALYSIS OF LACUSTRINE ZOOPLANKTON
N64-12498 04-16

PLANNET PROGRAM
S DATA ACQUISITION

PLANNING
SA MANAGEMENT PLANNING
SA OPERATIONS RESEARCH
AUTOMATED INFORMATION SYSTEMS IN PLANNING, CONTROL, AND COMMAND N64-15170 07-20

PAYLOAD PLANNING AND DESIGN FOR STANDARD LAUNCH VEHICLE-1B
AFSWC-TDR-64-1 N64-17662 09-31

FUNDS AND MANPOWER REQUIREMENTS FOR LONG RANGE PLANNING OF RESEARCH AND DEVELOPMENT PROJECTS
NASA-CR-53571 N64-18450 10-01

PLANOTRON
PRODUCTION OF HIGH POWER OSCILLATIONS IN MAGNETIC FIELD BY MAGNETRON AND PLANOTRON MACHINES
JPRS-21726 N64-11138 02-08

THEORY AND OPERATION OF MAGNETRON AND PLANOTRON - HIGH POWER ELECTRONICS
FTD-TT-63-253/1&2 N64-16039 07-09

PLANT /BIOL/
SA ANGIOSPERM
SA THERMOPHILIC PLANT
INFLUENCE OF SPACE FLIGHT FACTORS ON HEREDITY & DEVELOPMENT IN ACTINOMYCETES AND PLANTS
N64-11682 03-16

INFLUENCE OF SPACE FLIGHT CONDITIONS INCLUDING COSMIC RADIATION ON SPRING ONION & NUTMEG FLOWER SEEDS N64-11683 03-16

EFFECTS OF SPACE ENVIRONMENT ON PLANTS & HUMANS
FTD-TT-62-1609/1 N64-16053 07-14

RELATIONSHIP BETWEEN BIOCHEMILUMINESCENCE AND HEAT RESISTANCE OF PLANTS
JPRS-23735 N64-16950 09-16

NUTRIENT REQUIREMENTS, PROTEIN CONTENT, AND ABILITY TO FIX CARBON DIOXIDE OF PLANT TISSUE CULTURES
AMRL-TDR-63-124 N64-17864 10-16

PHYSIOLOGY AND BIOCHEMISTRY OF PLANTS - EFFECT OF INDOLYL ACETIC ACID AND INDOLYL BUTYRIC ACID ON ALGAE
FTD-MT-63-49 N64-18672 11-16

DATA ON ACCUMULATION COEFFICIENTS OF RADIOACTIVE ISOTOPES IN MARINE PLANTS AND ANIMALS
JPRS-24227 N64-18969 11-16

PLANT STUDY - EFFECT OF TEMPERATURE, MOISTURE AND LIGHT ON COMPOSITION OF PLANTS GROWN BY USE OF ION EXCHANGE RESINS AS MEDIA
RADC-TDR-63-183 N64-21353 14-16

EFFECT OF SPACE FLIGHT CONDITIONS IN VOSTOK III SPACECRAFT ON SEED OF HIGHER PLANTS
N64-21643 15-16

EFFECT OF SPACE FLIGHT CONDITIONS ON CHROMOSOMES OF PRIMARY RODTLETS OF GERMS IN PEA AND WHEAT SEEDS IN VOSTOK III AND VOSTOK IV SPACECRAFT
N64-21644 15-16

EMERGENT ORGANIC CHEMISTRY UNDER VARIOUS PLANETARY CONDITIONS - ABIOGENESIS, PLANETARY ATMOSPHERES, PLANTS, CHROMOSOMES, & FERTILIZATION PHYSIOLOGY
NASA-CR-56526 N64-22787 16-16

PHOTOSYNTHESIS OF HIGHER PLANTS AND MINERAL NUTRITION N64-23782 16-16

AEROSPACE MEDICINE - WEIGHTLESSNESS AND ARTIFICIAL GRAVITY EFFECTS ON PLANTS, ANIMALS, AND HUMAN PERFORMANCE
FTD-TT-64-140/1&4 N64-24012 16-16

CONFERENCE ON CRYSTAL GROWTH, MOLTEN SALTS AND SLAGS, PLANT DISEASES, AND SYNTHETIC DIAMONDS
JPRS-25417 N64-28008 20-01

ENERGY BALANCE OF SUDAN GRASS CROP
N64-30479 22-21

PLASMA
SA ARGON PLASMA
SA BEAM-PLASMA AMPLIFIER
SA BLOOD PLASMA
SA COLLISIONLESS PLASMA
SA ELECTRON PLASMA
SA HELIUM PLASMA
SA HIGH TEMPERATURE PLASMA
SA HYDROGEN PLASMA
SA MAGNETOIONIC PLASMA
SA MAGNETOPLASMA
SA METALLIC PLASMA
SA NONEQUILIBRIUM PLASMA
SA NONUNIFORM PLASMA
SA RAREFIED PLASMA
SA SOLAR PLASMA
SA THERMAL PLASMA
CF HYDROMAGNETISM
EFFECTS OF NONLINEAR RESPONSE OF PLASMA ELECTRON DISTRIBUTION IN RESONANCE WITH OSCILLATING PROBE POTENTIAL
NUP-63-14 N64-10012 01-23

PLASMA RESONANCE IN INCOHERENT SCATTERING OF RADIO WAVES FROM FULLY IONIZED PLASMA
RM-3696-PR N64-10246 01-24

PLASMA CHANGES DUE TO CHANGES IN CONCENTRATION OF CHLORIDE AND CARBON DIOXIDE BY THERMAL DEHYDRATION
N64-10703 02-16

CURRENT PASSAGE THROUGH A PLASMA DIODE WITH HEATED CATHODE FOR MAGNETOGASDYNAMIC ENERGY CONVERSION
JPRS-19408 N64-10821 02-24

SIGNIFICANCE OF PLASMA CELLS IN PRODUCTION OF ANTIBODIES DURING IONIZING RADIATION
JPRS-18020 N64-11023 02-16

QUALIFYING OF MODIFICATION OF PLASMA DISPERSION EXPRESSION AND EXTENSION OF DAMPING OF QUANTIZED LONGITUDINAL ELECTRON OSCILLATIONS IN PLASMA TYPE
NASA-RP-84 N64-11116 02-24

ELECTRON CYCLOTRON RESONANCE OBSERVED BY RESONANCE PROBE APPLIED TO PLASMA IN MAGNETIC FIELD
IPPJ-15 N64-11249 02-24

ELECTRICAL TRANSPORT EQUATION EXTENDED TO COLLISION FREQUENCY AND FINITE WAVELENGTH FOR PLASMA MODEL
MATT-216 N64-11279 02-24

THERMAL RELAXATION IN ONE-SPECIES, ONE-DIMENSIONAL PLASMA - THEORY & EXPERIMENT
MATT-213 N64-11313 02-24

DIFFUSION OF CHARGED PARTICLES OF PLASMA IN MAGNETIC FIELD N64-11427 02-24

BACKSCATTERING FROM SIMPLIFIED IONIZED TARGET IN FORM OF EXTENDED LAMINAR PLASMA COLUMN
AD-402665 N64-11644 03-24

GEOMETRY OF MAGNETOSPHERE AND DYNAMICS OF ENERGETIC PARTICLES AND PLASMA IN RELATION TO GEOMAGNETISM
NASA-CR-52904 N64-11740 03-12

NONEQUILIBRIUM EXPANSION OF ALKALI-METAL PLASMAS PASSED THROUGH THERMIONIC DIODE
NASA-TN-D-2086 N64-11791 03-24

LANGMUIR PROBE DIAGNOSTICS FOR STUDY OF HIGH SPEED PLASMA IMPINGING UPON THREE DIMENSIONAL MAGNETIC DIPOLE
NASA-CR-52909 N64-11820 03-24

PROPAGATION OF ELECTROACOUSTIC WAVES IN DENSE DEGENERATE PLASMA
AFCRL-63-899 N64-12019 03-24

AC STABILIZATION OF MAGNETIC CONFINEMENT OF PLASMA COLUMN IN THETA PINCH APPARATUS
TDR-169/3210-02/TR-1 N64-12060 03-21

QUIESCENT PLASMA SOURCE USING CONTACT IONIZATION OF CESIUM
MATT-219 N64-12089 03-24

STATIC MAGNETIC FIELD EFFECT ON RADIATION PATTERN OF PLASMA COATED SLOT ANTENNA
AFCRL-63-347 N64-12193 03-24

ELECTRON TEMPERATURE EFFECT IN PLASMA HEATED BY STRONG INHOMOGENEOUS ELECTRIC FIELD
AFCRL-63-377 N64-12197 03-24

HEATING AND CONFINEMENT OF PLASMA BY ALTERNATING MAGNETIC FIELD
SSD-TDR-63-312 N64-12615 04-24

EFFECT OF COLLISIONS ON PLASMA ELECTRON DENSITY FLUCTUATIONS - FOKKER-PLANCK EQUATION
SSD-TDR-63-265 N64-12657 04-24

CIRCUIT ANALYSIS AND OPERATION THEORY OF INDUCTIVELY DRIVEN PLASMA ROCKET
REPT.-9868-6006-TN-000 N64-12966 04-27

HYDROMAGNETIC WAVE PROPAGATION IN PLASMA
UCRL-10990 N64-13215 04-24

ANALYSIS OF ELECTRIC-FIELD EFFECT AND CALCULATION OF PLASMA TEMPERATURE IN PARTLY IONIZED GASES NEAR THERMAL EQUILIBRIUM
RE-OR-4 N64-13226 04-23

POWER OUTPUT OPTIMIZATION OF MAGNETOHYDRODYNAMIC GENERATORS WITH ARBITRARY PLASMA CONDUCTIVITY
NASA-CR-55183 N64-13400 04-24

MICROWAVE-FREQUENCY ASPECTS OF ELECTRON-BEAM-INDUCED PLASMA SYSTEM - OSCILLATION AND PROPAGATION MODES
AFCRL-63-381 N64-13621 05-24

PLASMA-LIKE PROPERTIES OF CHARGE CARRIERS IN SOLID-STATE MATERIALS - ELECTROMAGNETIC WAVE PROPAGATION
RADC-TDR-63-493 N64-13787 05-24

ELECTRON BEAM AND PLASMA INTERACTIONS FOR MICROWAVE POWER SYSTEMS
RADC-TDR-63-465, VOL. 1 N64-13791 05-24

ANALYSIS OF GAIN CHARACTERISTIC AND DISCHARGE CURRENT OF ELECTRON BEAM - PLASMA INTERACTION
N64-13793 05-24

INPUT AND OUTPUT COUPLING CAVITY STRUCTURE IN ELECTRON BEAM-HYDROGEN PLASMA SYSTEM
N64-13794 05-24

ADMITTANCE OF WAVEGUIDE ANTENNA RADIATING INTO PLASMA ENVIRONMENT
AFCRL-63-540 N64-13838 05-24

LANGMUIR PROBE METHOD OF INVESTIGATING DEIONIZING PLASMA
FTD-TT-62-1734 N64-13919 05-24

METHOD FOR OBTAINING RADIAL DISTRIBUTIONS FROM OPTICAL MEASUREMENTS ON CYLINDRICAL PLASMA
SC-4939/RR/ N64-13930 05-24

RADIATION FIELD DUE TO ELECTRIC CURRENT DIPOLE IN INFINITE, HOMOGENEOUS, ANISOTROPIC PLASMA
PIBMRI-1070-62 N64-14117 05-24

INTERACTION BETWEEN ELECTRODES AND PLASMA IN THERMIONIC CONVERTER INTERELECTRODE SPACE
N64-14207 06-06

FINITE RATE PLASMA GENERATION IN LAMINAR AIR BOUNDARY LAYER OF SLENDER REENTRY BODY
N64-15252 07-24

ELECTROMAGNETIC WAVE INTERACTION WITH AND TRANSMISSION THROUGH INHOMOGENEOUS ONE-DIMENSIONAL PLASMA
NASA-RP-127 N64-15311 07-23

ION DENSITY MEASUREMENT IN BARIUM PLASMA BY SCATTERING OF RESONANCE RADIATION
MATT-207 N64-15356 07-24

SILICON CRYSTALS, NITROGEN-SULFUR SYSTEMS, PHOTOCHEMISTRY, PLASMAS, AND CHELATES USED IN ENERGY CONVERSION SYSTEMS
AFCRL-63-940 N64-15489 07-01

BREMSSTRAHLUNG CROSS SECTIONS IN NEIGHBORHOOD OF PLASMA FREQUENCY
ARL-63-209 N64-15516 07-24

AIR, NITROGEN, AND HYDROGEN GAS-SIDE CONVECTIVE HEAT TRANSFER TO NUCLEAR ROCKET NOZZLES USING SHOCK TUBE TECHNIQUES
NASA-CR-55712 N64-15893 07-13

SHOCK-WAVE INDUCED, HIGH SPEED PLASMA STUDY, TO DEVELOP VELOCITY MEASUREMENT FOR REENTRY VEHICLES
RTD-TDR-63-4108 N64-16660 08-27

PLASMA GENERATION WITH HIGH ENERGY, SHORT LASER PULSES
MATT-222 N64-16665 08-24

CONSTRUCTION OF GLASS VACUUM CHAMBER FOR VIEWING OF PLASMA-ELECTROMAGNETIC FIELD INTERACTION
NASA-CR-53107 N64-16746 08-10

RADIANT ENERGY LOSS FROM CESIUM-ARGON PLASMA TO INFINITE PARALLEL PLANE ENCLOSURE
AVCO-EVERETT RES. REPT.-175 N64-17119 09-24

ELECTRON-ION RECOMBINATION IN FLOW OF PARTIALLY IONIZED ARGON PLASMA THROUGH WIND-TUNNEL NOZZLES
ARC-CP-634 N64-17247 09-24

TRANSVERSE FIELD INTERACTIONS OF BEAM AND PLASMA
ARL-64-16 N64-17286 09-24

INERT PARALLEL PLATE STRUCTURE FOR HOMOGENEOUS, ISOTROPIC, LOSSLESS PLASMA SLAB
PIBMRI-1162-63 N64-17307 09-24

WAVE PROPAGATION AND RESONANCE IN PLASMAS IMMERSED IN MAGNETIC FIELDS
NASA-CR-53229 N64-17352 09-24

COUPLING OF MAGNETOHYDRODYNAMIC WAVES TO ELECTROMAGNETIC & ACOUSTIC WAVES AT PLASMA-NEUTRAL GAS INTERFACE
AFCRL-63-944 N64-17450 09-24

EVOLUTION OF WEAKLY UNSTABLE SPATIALLY UNIFORM CLASSICAL PLASMA
MATT-179 N64-17467 09-24

INTERACTION OF RADIATION AND MATTER IN PLASMA
ARL-64-24 N64-17651 09-24

DERIVATION OF PLASMA EQUATION OF STATE FROM LIOUVILLE HIERARCHY
MATT-254 N64-17777 09-24

KINETIC EQUATIONS OF RADIATIVE TRANSFER OF PLASMA IN MAGNETIC FIELD
MATT-243 N64-18342 10-24

PLASMA MEASUREMENTS MADE BY EXPLORER X SATELLITE
N64-18477 10-12

TIME-DISCRIMINATING SPECTROPHOTOMETER FOR PLASMA
N64-18481 10-23

MAGNETIC AND ELECTRIC FIELD ALIGNED PLASMA DIFFUSION IN THE IONOSPHERE TO EXAMINE CONDITIONS FOR AMBIPOLAR DIFFUSION
NASA-RP-155 N64-18504 10-24

HIGH POWER BEAM PLASMA AMPLIFIER
AD-426322 N64-18850 11-24

HIGH POWER DUPLEXER UTILIZING PLASMA CONFINED BY MAGNETIC FIELD
QR-1 N64-19143 11-24

ONE-DIMENSIONAL PLASMA-CONDUCTIVITY KERNEL FUNCTION IN SPACE-FREQUENCY AND SPACE-TIME DOMAINS
SEL-63-088 N64-19169 11-24

CESIUM ARC PLASMA DIFFUSION ACROSS LOW MAGNETIC FIELDS
AFCRL-64-277 N64-19649 12-24

GENERATION OF COLD PLASMA SUITABLE FOR USE AS CROSSED FIELD ACCELERATOR BY DIRECT CURRENT GLOW DISCHARGE
ASD-TDR-63-835 N64-20124 13-24

OBLIQUE INCIDENCE OF ELECTROMAGNETIC WAVE ON PLANE BOUNDARY BETWEEN TWO GYROTROPIC PLASMA MEDIA
AFCRL-64-45 N64-20174 13-25

ULTRAHIGH FREQUENCY RADIOMETER FOR PLASMA NOISE MEASUREMENTS
ACF-AR-1678 N64-20184 13-15

ELECTROMAGNETIC WAVE SCATTERING BY PLASMA SYSTEMS AND APPLICATION TO REENTRY BODY TRACKING PROBLEMS
RCA-DTM-62-24 N64-20351 13-08

ENERGY LOSS OF ELECTRON BEAM IN PLASMA
IPPJ-22 N64-20523 13-24

INFLUENCE OF PROBE POTENTIAL ON ELECTRON ENERGY DISTRIBUTION IN PLASMA
WRE-TN-CPD-83 N64-20633 13-24

TRANSVERSE WAVE PROPAGATION IN PLASMA
N64-20759 14-24

WAVE PROPAGATION AND RADIO FREQUENCY MODULATION BY COAXIAL GLOW DISCHARGE AND PLASMA CYCLOTRON RESONANCE ISOLATOR
REPT.-4915-1-F N64-21087 14-24

RADIATION MEASUREMENTS IN STAGNATION REGION AND WAKE OF HYPERVELOCITY PROJECTILES - TRANSMISSION AND REFLECTION COEFFICIENTS OF PLASMA SLABS
TR-63-202 N64-21159 14-02

CONDENSER PROBE FOR MEASURING PENETRATION DEPTH OF ABLATIVE PLASMA INCIDENT ON SOLID TARGET
GAMD-4255 N64-21168 14-15

MEASUREMENT OF PERPENDICULAR TEMPERATURE OF C-STELLARATOR PLASMA BY DIAMAGNETIC COIL
MATT-255 N64-21735 15-24

LOCATING BOUNDARY OF PENETRATING PLASMA USING CHARGED PARTICLE BEAMS
FTD-TT-63-1089/162 N64-21940 15-25

PENETRATION OF PLASMA FROM SOURCE WITH ELECTRON OSCILLATIONS TO EVACUATED REGION WITH MAGNETIC FIELD
FTD-TT-64-400/16264 N64-21979 15-24

SIX MEGAWATT PULSED RADIO FREQUENCY GENERATOR FOR ION CYCLOTRON RESONANCE PLASMA HEATING
MATT-260 N64-22074 15-06

ELECTRON DENSITY MEASUREMENTS IN DENSE COLD GASEOUS PLASMA
AD-434265 N64-22089 15-24

DIFFUSION RATE EFFECT ON CESIUM & POTASSIUM PLASMA AFTER PASSAGE OF CURRENT
MATT-259 N64-22109 15-24

PLASMA DENSITY IN ARC DISCHARGE - ELECTRON BEAM-PLASMA INTERACTION FOR GENERATION AND AMPLIFICATION OF COHERENT SIGNALS
TR-64 N64-22327 15-24

PLASMA MEASUREMENTS ON IMP-A
NASA-CR-56294 N64-22471 15-24

NONLINEAR INTERACTION OF ELECTROMAGNETIC WAVE & TIME-DEPENDENT PLASMA MEDIUM
AFCRL-64-250 N64-22610 15-24

NOBLE GAS PLASMAS & EMITTER MATERIALS FOR NUCLEAR THERMIONIC CONVERTERS N64-22980 16-09

ELECTROMAGNETIC WAVES IN PLASMAS - LANDAU ABSORPTION IN PLASMA HAVING NO MAGNETIC FIELD
NASA-TT-F-9001 N64-23053 16-24

COMPUTER SIMULATION AND ANALYSIS OF ELECTRON-BEAM-GENERATED PLASMA SHEET
SEL-63-138 N64-23605 16-24

WAVE TRANSFORMATION ON PLASMA BOUNDARY IN MAGNETIC FIELD N64-23789 16-24

PLASMA ENERGY SPECTRUM MEASUREMENTS BY INTERPLANETARY MONITORING PLATFORM I /IMP-I/ SATELLITE
NASA-TM-X-55004 N64-23929 16-24

RADIO FREQUENCY PROBING TECHNIQUE FOR MEASUREMENT OF LOW PLASMA ELECTRON DENSITY
PIBMRI-1165-63 N64-23955 16-24

ELECTRON DENSITY PROFILE IN PLASMA JET - LANGMUIR PROBE DETERMINATION
R-89 N64-23985 16-24

DOUBLE-QUANTUM PHOTOELECTRIC EFFECT, AND GAIN OF BEAM-PLASMA INTERACTION IN MICROWAVE AMPLIFIERS
RADC-TDR-64-140, VOL. II N64-24171 16-09

INTERACTION OF ELECTROMAGNETIC WAVES IN PLASMA
AROD-3420-8 N64-24203 16-24

MICROWAVE GENERATION BY INTERACTION BETWEEN ELECTRON BEAMS AND PLASMA OR PYROLYTIC GRAPHITE
S-638 N64-24233 16-08

PLASMA ION SOURCES AND ION BEAM FORMATION
FTD-MT-63-181 N64-24245 17-24

DIFFERENTIAL EQUATION FOR PASSAGE OF PLANE ELECTROMAGNETIC WAVES THROUGH PLANE-PARALLEL INHOMOGENEOUS PLASMA SLAB
NASA-TR-R-172 N64-24593 17-24

MOMENTUM TRANSFER COLLISION FREQUENCIES OF ELECTRONS WITH NEON IONS AND NEUTRAL ATOMS IN DECAYING NEON PLASMA
R-201 N64-24645 17-24

INTERACTION BETWEEN MICROWAVES AND PLASMAS IN GAS DISCHARGES AND SEMICONDUCTORS
RADC-TDR-64-93 N64-24668 17-09

PLASMA RESONANCE IN GERMANIUM RODS
N64-24672 17-25

MAGNETOPLASMA RESONANCE IN SEMICONDUCTORS & METALS
N64-24673 17-25

NOISE RADIATION FROM LOW PRESSURE PLASMA COLUMN IN FREE SPACE AND IN WAVEGUIDE N64-24675 17-24

RANGE FACILITY FOR MEASURING RADAR CROSS-SECTIONS OF LOW DENSITY SUPERSONIC PLASMA STREAMS
N64-24733 17-08

DISTRIBUTION OF ELECTRIC AND MAGNETIC FIELDS IN ROTATING PLASMA IN THERMODYNAMIC EQUILIBRIUM

NASA-TT-F-8690 N64-25070 17-24

REFRACTORY MATERIAL - PLASMA MATERIAL DEPOSITION
N64-25420 17-17

INTERNAL MAGNETIC FIELD OF PLASMA WITH SUPERCRITICAL OPERATION OF POSITIVE COLUMN
D1-82-0283 N64-25617 17-24

ELECTRON BEAM, SOLID STATE, AND PLASMA DEVICES
MDL-Q7 N64-25640 17-09

P-N JUNCTION FORMATION BY ION IMPLANTATION AND PLASMA DEPOSITION TECHNIQUES
REPT.-2 N64-25661 17-24

ONE-DIMENSIONAL, STEADY STATE STRUCTURE OF SHOCK WAVE IN IONIZED PLASMA IN ABSENCE OF EXTERNAL MAGNETIC OR ELECTRIC FIELDS
AD-441795 N64-25729 17-24

NONLINEAR LANDAU DAMPING OF OSCILLATIONS IN BOUNDED PLASMA N64-25735 17-24

SCALAR ELECTRICAL CONDUCTIVITIES FOR NITROGEN AND ARGON PLASMA IN THERMAL EQUILIBRIUM
AEDC-TDR-64-119 N64-26101 18-24

COMPARISON OF BHATNAGAR-GROSS-KROOK EQUATION AND FOKKER-PLANCK EQUATION FOR DESCRIPTION OF PLASMAS
SSD-TDR-64-115 N64-26109 18-20

PLASMA IN HIGH TEMPERATURE FLOW SURROUNDING HYPERSONIC PROJECTILE IN FLIGHT
N64-26146 18-24

SELECTION AND PLASMA FOCUSING OF IONS IN SOURCE OF MULTIDISCHARGE IONS
FTD-TT-64-541/1&2&4 N64-26165 18-23

REITERATIVE METHOD FOR DETERMINING BOUNDARY SHAPE BETWEEN PLASMA AND MAGNETIC FIELD
NASA-RP-266 N64-26406 18-24

CONSTANTS OF LINEARIZED MOTION OF VLASOV PLASMAS
TH-59 N64-26586 18-24

SOLENOID WITH SINUSOIDAL WINDINGS FOR IOFFE FIELD APPLIED TO STATIONARY PLASMA DEVICE
IPPJ-26 N64-26697 18-24

DETECTION OF PLASMA PROPAGATION BEYOND DISCHARGE ANODE LIMITS DURING STUDY OF LOW VOLTAGE, ARC DISCHARGE IN MERCURY VAPORS
FTD-TT-64-587/1&2&4 N64-26735 18-24

INTERACTION OF ELECTROMAGNETIC WAVES AND CLASSICAL PLASMAS
R-5-64-1 N64-26876 18-24

GENERATION OF HIGH DENSITY STABLE CESIUM PLASMA BY MODIFIED PENNING ARC AND DESIGN OF BEAM-PLASMA AMPLIFIER
AC-TDR-64-155 N64-26956 18-24

COMPARISON OF PROBE CHARACTERISTICS OF ELECTRON AND ION CURRENTS IN ONE-, TWO-, THREE-, AND FOUR-ELECTRODE PLASMA PROBES N64-26996 19-15

ELECTROMAGNETIC WAVE PROPAGATION IN CIRCULAR WAVE GUIDE FILLED BY GAS DISCHARGE PLASMA
N64-27004 19-24

PASSAGE OF ION BEAMS THROUGH PLASMA
N64-27157 19-24

SCATTERING OF PULSED LASER LIGHT FROM PLASMAS
NASA-CR-56889 N64-27290 19-24

PLASMA PROBE FOR MARINER A SPACECRAFT, TO DETERMINE DENSITY, ENERGY SPECTRA, AND DIRECTION OF MOTION OF PROTONS AND ELECTRONS IN PLASMA
NASA-CR-56794 N64-27821 19-32

PLASMA HEATING BY INJECTION OF CHARGED PARTICLES
REPT.-64-5 N64-27962 20-24

RADIATION FROM LINEAR SOURCE IN GROUND PLANE COVERED BY WARM PLASMA SLAB
ATN-64/9230/-3 N64-28161 20-24

ELECTRON CYCLOTRON HARMONIC RADIATION FROM PLASMA
MATT-290 N64-28423 20-24

MICROWAVE CAVITY TECHNIQUES FOR SPATIAL DISTRIBUTION OF ELECTRONS IN PLASMA COLUMNS AND MEASUREMENT OF THERMAL RADIATION FROM HIGHLY IONIZED CURRENT CARRYING PLASMA
USCEC-103-101 N64-28617 20-24

AEROTHERMAL CAPABILITY OF PLASMA HEATERS - HIGH PRESSURE AIR GENERATION
REPT.-25116 N64-28619 20-27

COMPUTATIONS OF ELECTRON DISTRIBUTIONS ABOUT THERMIONICALLY EMITTING PARTICLES, & ION SAMPLING FROM CHEMICAL PLASMAS
QSR-7 N64-28644 20-24

FIELD STRENGTH ON SURFACE OF STATIC AND MOVING BODY IN PLASMA AND OF BODY IN IONOSPHERE
N64-29080 21-24

ALTERNATING CURRENT CONDUCTIVITY OF PLASMA IN UNIFORM FIELD
NASA-RP-304 N64-29205 21-24

MAPPING OF MAGNETIC FIELD IN VICINITY OF CURRENT SHEETS IN PLASMAS - THEORY OF STRUCTURE OF CURRENT SHEETS
NASA-CR-58649 N64-29405 21-24

RESONANT INTERACTION OF VERTICALLY POLARIZED PLANE ELECTROMAGNETIC WAVES WITH THIN PLASMA SLABS
NASA-TN-D-2476 N64-29452 21-24

INTERACTION OF EXPANDING CYLINDRICAL PLASMA WITH EXTERNAL MAGNETIC FIELD
NASA-TT-F-234 N64-29492 21-24

PLASMA MEASUREMENTS MADE ABOARD EXPLORER X SATELLITE
NASA-CR-58670 N64-29562 21-24

KADOMTSEV INTERACTION OF HYDROMAGNETIC WAVE AND ELECTRIC CURRENT IN HIGHLY IONIZED HELIUM PLASMA
ATN-64/9230/-2 N64-30007 21-24

MODE COUPLING IN BOUNDED COLD BEAM PLASMA SYSTEMS - GUIDED WAVE PROPAGATION AND ELECTRON BEAM INTERACTION
RADC-TDR-64-189 N64-30119 21-24

INTERACTION OF ELECTROMAGNETIC WAVES WITH CLASSICAL PLASMA
R-4-64-2 N64-30158 21-24

MICROWAVE STUDY OF ELECTRON SPATIAL DISTRIBUTION IN PLASMA N64-30358 22-24

WAVE PROPAGATION MEASUREMENT TO DETERMINE ELECTRON DENSITY, COLLISION FREQUENCY, AND ELECTRON TEMPERATURE N64-30360 22-24

MEASUREMENT OF CONDUCTIVITY OF WEAKLY IONIZED PLASMA BY HIGH FREQUENCY SOUND
TP-111 /1964/ N64-30478 22-24

NONEQUILIBRIUM ELECTRICAL CONDUCTIVITY IN ARGON PLASMA SEEDED WITH POTASSIUM VAPOR
AFOSR-64-0848 N64-30480 22-24

DETERMINATION OF PROPERTIES OF PLASMA BY INTERACTION WITH APPLIED ELECTRIC OR MAGNETIC FIELD
AFOSR-64-1000 N64-30695 22-24

SPECTRAL LINE SHAPES EMITTED FROM PLASMAS - QUANTUM STATISTICAL ANALYSIS
RTD-TDR-63-3130 N64-30879 22-24

FOKKER-PLANCK EQUATION FOR TEST PARTICLE DISTRIBUTION IN EQUILIBRIUM PLASMA
N64-31087 22-24

MEASUREMENT OF THREE-BODY ELECTRON-ION RECOMBINATION IN DENSE PLASMA
AFCRL-63-119/II/ N64-31246 22-24

FUSION PLASMA NUCLEAR PROPULSION SYSTEM
N64-31615 23-27

TRANSIENT REFLECTION AND TRANSMISSION OF PLANE WAVE NORMALLY INCIDENT UPON SEMIINFINITE ANISOTROPIC PLASMA
AFCRL-64-550 N64-32110 23-24

USE OF ION PROBE FOR DIAGNOSIS OF REENTRY PLASMAS
AD-420827 N64-32138 23-24

RUNAWAY ELECTRONS IN IDEAL LORENTZ PLASMA WHERE ELECTRONS EXPERIENCE COULOMB COLLISIONS WITH INFINITELY MASSIVE IONS ONLY
MATT-226 N64-32395 23-24

ELECTROMAGNETIC WAVE INTERACTION WITH PLASMA FOR CROSSED-BEAM, CROSS MODULATION MICROWAVE PLASMA DIAGNOSTICS
R-8-63-4 N64-32586 23-24

BASIC MAGNETOHYDRODYNAMICS AND KINETICS OF PLASMAS
FTD-TT-62-508/1&2 N64-32653 23-24

METAL SURFACE IONIZATION IN ELECTRIC FIELD, CESIUM IONIZED PLASMA FORMATION, AND IONIZATION COEFFICIENTS OF RARE EARTH ELEMENTS
JPRS-26723 N64-32806 24-23

PLASMA TORCH CLEANING OF ALUMINUM ALLOY JOINTS BEFORE WELDING
MRI-106.04 N64-32943 24-17

INTERSTELLAR ABSORPTION BANDS PRODUCED BY PLASMA RESONANCE IN COATED SODIUM
NASA-CR-59170 N64-33119 24-25

MILLIMETER WAVE GENERATION BY PLASMA
AD-422362 N64-33242 24-24

PLASMA APPLICATIONS IN MICROWAVE CIRCUITS, WITH OR WITHOUT STATIC MAGNETIC FIELD
RADC-TDR-64-244 N64-33305 24-24

ELECTROMAGNETIC WAVE SCATTERING BY TURBULENCE OF WAKE FROM REENTRY VEHICLE & BY BODY MOVING IN IONOSHERE OR PLASMA
R-111 N64-33493 24-24

PLASMA ACCELERATION
BETATRON, CONVERTER CAMERA, LASER INTERFEROMETER, AND SHOCK TUBE FACILITY FOR PLASMA PARTICLE ACCELERATION STUDY
AFCRL-64-412 N64-21709 15-24

POWER CONVERSION AND GENERATION TECHNIQUES TO SUPPLY HIGH FREQUENCY ELECTRIC POWER TO ACCELERATE PLASMAS IN ELECTRIC PROPULSION ENGINE
APL-TDR-64-53 N64-22291 15-06

HYPERSONIC & SUPERSONIC FLOWS, BOUNDARY LAYERS, STAGNATION REGIONS, PLASMA ACCELERATION, AND SHOCK TUNNEL EQUATION
FTD-TT-63-79/1&2 N64-23676 16-01

PLASMA ACCELERATION BY MAGNETIC FIELD
N64-23681 16-24

ONE-INCH-SQUARE LINEAR D-C PLASMA ACCELERATOR USING CESIUM SEEDED NITROGEN
AIAA PAPER-64-699 N64-28077 20-24

PLASMA ACCELERATION BY TRAVELLING MAGNETIC FIELD
N64-31607 23-27

ELECTROSTATIC ACCELERATION OF LOW DENSITY PLASMA BY MOMENTUM TRANSFER THROUGH MAGNETIC FIELDS
N64-31608 23-27

PARTIALLY IONIZED ARGON ACCELERATION IN CHANNEL OF CONSTANT CROSS-SECTIONAL AREA WITH UNIFORM APPLIED TRANSVERSE MAGNETIC FIELD
MIT-33-P N64-31641 23-24

ELECTROMAGNETIC ACCELERATION EQUATIONS TREATING PLASMA MASS AS VARIABLE
NASA-TN-D-2164 N64-32428 23-24

PLASMA ACCELERATOR
OPERATION OF COAXIAL PLASMA ACCELERATOR WITH LARGE RATIO OF OUTER TO INNER CONDUCTOR RADIUS
SIT-88 N64-11448 03-24

ELECTRODELESS PLASMA ACCELERATOR FOR SIMULATING REENTRY ENVIRONMENTS
ASD-TDR-63-834 N64-19111 11-10

THERMIONIC CONVERTER FOR STEADY STATE ELECTRO-MAGNETIC COAXIAL PLASMA ACCELERATOR
LAMS-3041 N64-19304 12-24

PLASMA PHYSICS & PLASMA ACCELERATOR RESEARCH
N64-20808 14-27

REPETITIVE PULSED PLASMA ACCELERATOR WITH THIN METAL FILM AS PLASMA SOURCE N64-22054 15-24

LINEAR PLASMA ACCELERATOR BASED ON CROSSED ELECTRIC AND MAGNETIC FIELD
LA-3078 N64-25544 17-24

COAXIAL HALL-CURRENT PLASMA ACCELERATOR WITH LOW MASS FLOW RATE
AIAA PAPER-64-700 N64-28063 20-24

X-BAND MAGNETIC RESONANCE PLASMA ACCELERATOR
AIAA PAPER-64-702 N64-28368 20-24

DESIGN AND PERFORMANCE OF LINEAR CROSSED-FIELD AIR PLASMA ACCELERATOR FOR REENTRY SIMULATION FACILITY
NASA-CR-58543 N64-28517 20-24

ELECTRODES FOR CROSSED FIELD PLASMA ACCELERATORS
NSL-62-113-9 N64-32321 23-24

HIGH SPECIFIC IMPULSE HALL CURRENT PLASMA ACCELERATOR
NASA-CR-54062 N64-32858 24-27

DETONATION WAVE STUDY FOR APPLICATION TO CHEMICAL PROPULSION SYSTEMS, NUCLEAR PROPULSION, AND PULSED PLASMA ACCELERATORS
AD-421130 N64-32873 24-27

MOTION EQUATIONS FOR CONSTANT CURRENT SHEET VELOCITY MODEL OF COAXIAL PLASMA ACCELERATOR
R64SD61 N64-33600 24-24

PLASMA ARC
CF ARC CHAMBER
VORTEX-STABILIZED HIGH CURRENT PLASMA ARC
N64-10143 01-24

PLASMA ARC FACILITIES IN UNITED STATES
N64-11890 03-10

ARC FLUCTUATION EFFECTS ON SPECTROSCOPICALLY-DETERMINED ARC PLASMA TEMPERATURES
LAS-SR-239-6 N64-14822 06-24

LOSS OF MASS EXPLAINED IN TERMS OF OXIDATION RATES OF CARBONACEOUS MATERIALS FROM PLASMA ARC TESTS
NASA-CR-55837 N64-16713 08-19

PLASMA WELDING & METAL CLEANING BY PLASMA ARCS
RSIC-123 N64-17655 09-24

MICROWAVE AND RADIO FREQUENCY INDUCTION COUPLED PLASMA TORCH N64-19833 12-24

PLASMA ARC SPRAY PROCESS AS MATERIAL DEPOSITION METHOD FOR AEROSPACE INDUSTRY
FZM-4044 N64-20072 13-17

OPERATION AND STABILITY LIMITS OF HIGH PRESSURE DIRECT CURRENT PLASMA ARC
CM-1043 N64-22900 16-24

AIR PLASMA ARC MATERIALS TESTING FOR REENTRY
SSD-TDR-64-75 N64-24347 17-24

PLASMA TORCH OXIDATION RESISTANCE AND EROSION -

EVALUATION OF PYROLYTIC MATERIALS
N64-25425 17-19

MATHEMATICAL MODEL OF CYLINDRICAL PLASMA ARC AND USE OF STEENBECKS MINIMUM PRINCIPLE
RAE-TRANS-1041 N64-25537 17-13

PLASMA ARC TECHNIQUE FOR SPECTROCHEMICAL DETERMINATION OF TITANIUM AND ZIRCONIUM IN MOLYBDENUM ALLOYS
ML-TDR-64-36 N64-26855 18-07

PLASMA ARC TESTS ON PYROLYTIC MATERIALS FOR OXIDATION RESISTANCE AND EROSION EVALUATION
NASA-CR-58148 N64-27819 19-18

SPECTROSCOPIC TEMPERATURE MEASUREMENTS IN SMALL REGIONS OF TURBULENT ARC PLASMA GENERATOR
ML-TDR-64-243 N64-30164 21-24

DIFFUSION OF CESIUM ARC PLASMAS ACROSS MAGNETIC FIELDS OF DIFFERING STRENGTHS
AD-437524 N64-30172 21-24

PLASMA ARC METAL SPRAYING
PLASMA ARC SPRAYED FREE STANDING SHAPES FOR RADIATION COOLED THRUST CHAMBER
N64-25409 17-18

ARC PLASMA SPRAYED TUNGSTEN AS ENGINEERING MATERIAL N64-25411 17-18

PLASMA ARC SPRAYING FOR USE IN RADIATING ROCKET THRUST CHAMBER N64-25421 17-17

PLASMA SPRAYING TUNGSTEN N64-25422 17-17

PLASMA COMPOSITION
TEST VEHICLE FOR STUDY OF INTERACTION OF HIGH POWER ELECTRON BEAM WITH PLASMA COMPOSITION
N64-13792 04-24

MICROWAVE COUPLING AND ENERGY PARTITION AND TRANSFER WITHIN PLASMA GAS COMPOSITION
AFCRL-63-199/1/ N64-14218 06-24

ELECTRON-ION RECOMBINATION, DENSITY MEASUREMENTS, DYNAMIC STABILITY, AND RUNAWAY EFFECT WITHIN PLASMA COMPOSITION
AFCRL-63-199/2/ N64-14220 06-24

SPECTROSCOPIC METHOD FOR TEMPERATURE OR PRESSURE MEASUREMENT IN LOW TEMPERATURE PLASMAS
NASA-CR-58969 N64-33202 24-24

PLASMA CONFINEMENT
HEATING AND CONFINEMENT OF PLASMA BY ALTERNATING MAGNETIC FIELD
SSD-TDR-63-312 N64-12615 04-24

DRIFT-WAVE INSTABILITY OF WEAKLY INHOMOGENEOUS, FULLY IONIZED PLASMA CONFINED BY STRONG MAGNETIC FIELD
MATT-234 N64-13020 04-24

EQUILIBRIUM AND STABILITY OF CHARGED, CONFINED PLASMA
FTD-TT-61-67/1&2 N64-16038 07-24

PARTICLE ORBITS IN HELIOTRON MAGNETIC FIELD - PLASMA CONFINEMENT IN CORRUGATED MAGNETIC FIELD
IPPJ-21 N64-33055 24-24

ELECTRONIC EQUIPMENT AND TWO-BODY CORRELATION FUNCTIONS FOR PLASMA CONFINEMENT APPARATUS
SIT-P126 N64-33639 24-10

PLASMA DENSITY
PROPAGATION OF ELECTROSTATIC ION WAVES PERPENDICULAR TO DENSITY GRADIENT IN IONIZED PLASMA IN MAGNETIC FIELD
MATT-227 N64-11586 03-24

DENSITY FLUCTUATIONS IN OHMICALLY HEATED PLASMA OF STELLARATOR RESOLVED INTO AZIMUTHALLY-PROPAGATING WAVES
MATT-224 N64-16935 09-24

MEASURING APPARATUS FOR PLASMA ELECTRON DENSITY
AFCRL-64-247 N64-18792 11-24

IBM 7090 COMPUTER PROGRAM FOR DETERMINING PLASMA DENSITY FROM EXPERIMENTAL HYDROGEN SPECTRAL LINE SHAPES
ATN-64/9233/-8 N64-18924 11-24

PULSED RUBY LASER SYSTEM FOR DETERMINATION OF PLASMA ELECTRON DENSITY AND TEMPERATURE
UCRL-7712 N64-21012 14-24

PLASMA DENSITY IN ARC DISCHARGE - ELECTRON BEAM-PLASMA INTERACTION FOR GENERATION AND AMPLIFICATION OF COHERENT SIGNALS
TR-64 N64-22327 15-24

PLASMA DENSITY FALL-OFF WITH PASSAGE OF CURRENT IN THERMALLY IONIZED ALKALI PLASMAS - PLASMA LOSSES IN Q-DEVICE
MATT-284 N64-26700 18-24

PLASMA ION DENSITY MEASUREMENTS BASED ON ATTENUATION OF MEDIUM ENERGY ATOMIC BEAM
MATT-277 N64-32417 23-24

PLASMA DENSITY MEASUREMENT IN RAIL ACCELERATOR BY SCHLIEREN PHOTOGRAPHY
GA-4735 N64-32686 23-24

PLASMA DISCHARGE
SA TOROIDAL DISCHARGE
MERCURY ARC DISCHARGE PLASMA MEASUREMENTS IN MAGNETIC FIELD N64-11961 03-24

MICROWAVE RADIATION FROM DC DISCHARGE PLASMA IN MAGNETIC FIELD
IPPJ-13 N64-13027 04-24

DIAGNOSTIC METHODS FOR ANALYSIS OF UNIFORM PLASMA IN PULSED DISCHARGE
PIBMRI-1195-63 N64-13826 05-24

THERMAL AND ELECTRICAL CONDUCTIVITY OF DEGENERATE ELECTRON GAS AND CALCULATIONS FOR COOLING STELLAR PLASMA
AFCRL-64-528 N64-29802 21-09

PLASMA DYNAMICS
RADIO PHYSICS & PLASMA DYNAMICS IN COMMUNICATIONS THEORY
AD-424620 N64-12371 03-09

MAGNETOPLASMADYNAMIC CHANNEL FLOW WITH HALL CURRENTS
ARL-63-145 N64-21028 14-24

HIGH SPEED LOW DENSITY FLOWS OF NEUTRAL AND PARTIALLY IONIZED GASES - GASDYNAMICS AND PLASMADYNAMICS
AFOSR-64-0565 N64-24078 16-24

RADIO PHYSICS, PLASMA DYNAMICS, AND COMMUNICATIONS SCIENCES AND ENGINEERING STUDIES
QPR-73 N64-26561 18-01

DYNAMICS OF PLASMAS
ARL-64-85 N64-26998 19-24

MAGNETIZED PLASMAS - DEVELOPMENT OF DISTURBANCES AND SHOCK FORMATION, WAVE PROPAGATION, AND RADIATION IN TOROIDAL DISCHARGES
PIBMRI-1224-64 N64-29971 21-24

RADIO PHYSICS, PLASMA DYNAMICS, AND COMMUNICATION SCIENCES AND ENGINEERING
AD-603870 N64-29998 21-23

VAPOR-FILLED THERMIONIC CONVERTERS - CESIUM SURFACE ADSORPTION AND PLASMA PHENOMENA
NASA-CR-54194 N64-33100 24-09

PLASMA ENGINE
CF PLASMA PROPULSION
EFFICIENCY OF REPETITIVELY PULSED GAS FLOW PLASMA ENGINE AND OPERATION OF SINGLE-SHOT PLASMA ENGINE
NASA-CR-55771 N64-16027 07-21

COIL-SYSTEM DESIGN PARAMETERS FOR CONSTANT VELOCITY TRAVELING-MAGNETIC-WAVE PLASMA ENGINE

NASA-TN-D-2278 N64-20283 13-27

ASTRONAUTICS - ROCKET MOTION, NUCLEAR FUELS, ORBITING ARTIFICIAL SATELLITES, PLASMA ENGINES
FTD-TT-61-123/1&2&3&4 N64-23395 16-01

EFFICIENCY OF COAXIAL GUN PLASMA ENGINE SYSTEM FOR VARIOUS CAPACITANCES, VOLTAGES, GAS DENSITIES, AND GUN GEOMETRIES
AIAA PAPER-64-706 N64-28305 20-06

NUCLEAR-ELECTRIC POWER REQUIREMENTS FOR ELECTRIC ROCKETS - CONTACT AND BOMBARDMENT ION ENGINES, ARC JETS, AND PULSED PLASMA ENGINES
AIAA PAPER-64-765 N64-29575 21-06

POWER EFFICIENCY OF MAGNETIC INDUCTION PLASMA ENGINE
NASA-CR-54063 N64-31010 22-27

SPACE FLIGHT OF JET AIRCRAFT WITH IONIC OR PLASMA ENGINE N64-31524 23-32

PLASMA FLOW
INTERACTION OF PLASMA FLOW WITH MAGNETIC FIELD OF TWO-DIMENSIONAL DIPOLE
NASA-CR-52867 N64-11327 02-24

CONVERSION OF KINETIC ENERGY OF PLASMA STREAM INTO ELECTRICAL ENERGY BY ISOTHERMAL RETARDATION IN TRANSVERSE MAGNETIC FIELD N64-11712 03-24

GENERATION OF ELECTRICITY BY PLASMA FLOWING IN A TUBE N64-11713 03-24

PROPERTIES OF PLASMA FLOW AROUND REENTRY VEHICLE BY MEASURING ADMITTANCE OF ANTENNA RADIATING IN PRESENCE OF PLASMA
NASA-CR-55141 N64-13191 04-08

INTERFEROMETRIC ANALYSIS OF AXISYMMETRIC PLASMA FLOW
BRL-1222 N64-17853 10-24

MAGNETIC FIELD EFFECT AND HEAT TRANSFER RATES IN FLOWING PLASMA
AEROCHEM-TP-56 N64-18010 10-24

ELECTRON HEATING IN PLASMA FLOWING ACROSS MAGNETIC FIELD
FTD-MT-63-66/1&2 N64-18759 11-24

ELECTRICAL PROPERTIES OF ARGON AND NITROGEN PLASMA FLOWS IN ARC-HEATED PLASMA TUNNEL N64-19834 12-24

MICROWAVE BACKSCATTERING FROM SUPERSONIC PLASMA FLOWS N64-24311 17-08

INTERACTION BETWEEN PLASMA FLOW AND RING COIL MAGNETIC FIELD - CHANNELING EFFECT N64-24379 17-24

PLASMA FLOW IN MAGNETIC ANNULAR ARC NOZZLES N64-31606 23-27

MAGNETOHYDRODYNAMICS AND SUPERCONDUCTIVITY - INTERACTIONS OF PLASMA FLOWS IN MAGNETIC FIELDS
UAPL-15 N64-31619 23-24

VELOCITY MEASUREMENT OF FLOWING PLASMA BASED ON INDUCED POLARIZATION VOLTAGE WHEN PLASMA FLOW IS TRANVERSE TO APPLIED MAGNETIC FIELD
RR-TR-64-7 N64-32032 23-24

STABILITY OF HARD-CORE PINCH DEVICE WITH ANISOTROPIC PLASMA PRESSURE
NASA-TM-X-55091 N64-33564 24-24

INTENSIFICATION OF MAGNETIC FIELDS THROUGH PLASMA MOTION
NASA-TM-X-55076 N64-33632 24-24

LEGENDRE TRANSFORM FOR POTENTIAL PLASMA FLOW EQUATION
SR-7 N64-33663 24-24

PLASMA FLUX MEASUREMENT
ION BEAM INSTRUMENTS FOR PLASMA DIAGNOSTICS
TESTING OF ELECTRICAL PROPULSION SYSTEMS
AEDC-TDR-63-242 N64-13663 05-24

PLASMA GENERATOR
SA MAGNETOHYDRODYNAMIC GENERATOR
HIGH SPEED FLOW IN LOW-DENSITY, HYPERSONIC WIND TUNNELS WITH PLASMA GENERATORS
AEDC-TDR-63-241 N64-11440 03-24

ELECTRON BEAM SCATTERING PROBE OF PLASMA COLUMN OF PLASMA ION GENERATOR
RADC-TDR-63-477 N64-13786 05-24

HYPERSONIC PLASMA GENERATOR FOR THERMAL-TO-ELECTRICAL ENERGY CONVERSION
SC-4960/RR/ N64-13901 03-24

CHARACTERISTICS OF PLASMA GENERATORS AND LINEAR ACCELERATORS N64-18070 10-23

OPEN, METAL-CORED, CARBON ARC, PLASMA GENERATOR N64-18072 10-24

HIGH TEMPERATURE THERMOPHYSICS - LIQUID METALS, GASEOUS HEAT TRANSFER, AND PLASMA GENERATORS
FTD-TT-63-1090/1 N64-19755 12-23

CAPABILITY OF PLASMA GENERATORS TO PROVIDE DATA FOR DETERMINING TELEMETRY-PLASMA SHEATH INTERACTIONS
A-220 N64-20274 13-24

HIGH TEMPERATURE LINEAR PLASMA GENERATOR
FTD-TT-63-1042/1&2 N64-24265 17-24

PLASMA GENERATOR FOR CONVERSION OF HEAT INTO ELECTRICAL ENERGY AND NUCLEAR POWER UNIT FOR SPACE FLIGHT
FTD-TT-64-295/1 N64-26114 18-23

MAGNETOPLASMADYNAMIC GENERATOR TEST LOOP AND ALUMINUM OXIDE DUCT N64-30436 22-10

COMPATIBILITY OF MAGNETOPLASMADYNAMIC GENERATOR REFRACTORY MATERIALS WITH CESIUM VAPOR N64-30439 22-17

FLOW PROCESSES, ATOMIC COLLISIONS, SEEDING, AND NONEQUILIBRIUM MODES IN MAGNETOPLASMADYNAMIC POWER GENERATION
IRD-64-36, PT. 3 N64-30440 22-24

VISCOSITY OF CESIUM, CESIUM-HELIUM MIXTURES, AND BINARY GAS MIXTURES ANALYZED AS WORKING FLUIDS FOR MAGNETOPLASMADYNAMIC GENERATOR N64-30441 22-11

OPTIMIZATION OF SEED FRACTION IN PLASMA GENERATOR N64-30443 22-24

OPTIMIZATION OF LARGE SCALE NUCLEAR MAGNETOPLASMADYNAMIC GENERATORS N64-30444 22-24

FLOW PROCESSES IN MAGNETOPLASMADYNAMIC GENERATORS N64-30445 22-24

MONATOMIC GAS FLOW IN MAGNETOPLASMADYNAMIC GENERATORS AT CONSTANT MACH NUMBERS - EFFECT OF ELECTRON TEMPERATURE ELEVATION ON HALL GENERATOR EFFICIENCY N64-30446 22-24

NONEQUILIBRIUM FLOW FOR INCREASING ELECTRICAL CONDUCTIVITY OF WORKING FLUID IN NUCLEAR PLASMA GENERATOR N64-30449 22-06

PLASMA PHYSICS STUDIES - PLASMA ION GENERATOR DISCHARGE TUBE, HEATING AND CONFINEMENT OF PLASMA, AND MAGNETOHYDRODYNAMICS N64-32345 23-24

PLASMA INSTABILITY
LANDAU DAMPING AND FINITE-LENGTH EFFECTS IN UNIVERSAL PLASMA INSTABILITIES
MATT-275 N64-26456 18-24

PLASMA JET
ENTHALPY FLUCTUATIONS IN PLASMA JETS - SQUID PROJECT N64-13492 04-24

OPERATION MODES OF CONFINED KILOWATT DC ARGON

PLASMA JET IN HELIUM OR ARGON
AS-64-2 N64-16615 08-24

SYNTHESIS OF HIGH TEMPERATURE MATERIALS WITH PLASMA JET USING POWDERED SOLIDS
NRL-1490 N64-17445 09-24

TIME-OF-FLIGHT MASS SPECTROMETER FOR PLASMA JET STUDY AT ATMOSPHERIC PRESSURE
ASD-TDR-62-644, PT.1 N64-21711 15-24

PLASMA JET MATERIAL TESTING APPARATUS FOR PRELIMINARY EVALUATION OF COMPOSITE MATERIALS FOR ROCKET ENGINE COMPONENTS N64-25424 17-19

LANGMUIR PROBE AND VELOCITY MEASUREMENTS IN PLASMA JET N64-26147 18-24

PRODUCTION OF BORON BY PLASMA TORCH REDUCTION OF BORON FLUORIDE
KY-453 N64-26650 18-07

HIGH TEMPERATURE MATERIALS - EVALUATION OF COATED REFRACTORY ALLOYS USING ARC-PLASMA-JET N64-27031 19-19

ARC PLASMA JET FOR EVALUATING HIGH TEMPERATURE MATERIALS
ML-TDR-64-73 N64-29926 21-17

TURBULENCE IN AN ARC PLASMA JET USING ELECTRO-MAGNETIC INDUCTION
SSD-TDR-64-122 N64-30112 21-24

SPECTROSCOPIC MEASUREMENT OF EXCITATION TEMPERATURE OF LOW DENSITY, SUPERSONIC, ARGON PLASMA STREAM PRODUCED BY PLASMA JET
AEDC-TDR-64-196 N64-31069 22-24

PLASMA LAYER
ADMITTANCE OF ANNULAR SLOT ANTENNAS RADIATING INTO PLASMA LAYER
AFCRL-63-395 N64-14118 05-24

ADMITTANCE & VOLTAGE DISTRIBUTION FOR RECTANGULAR CAVITY OR WAVEGUIDE-BACKED SLOT ANTENNA COVERED BY FINITE PLASMA LAYER RADIATING INTO FREE SPACE
AFCRL-63-393 N64-14199 06-24

TWO DIMENSIONAL ELECTROMAGNETIC FIELDS GUIDED BY PLASMA LAYERS N64-27161 19-24

FIELD STRUCTURE INSIDE PLASMA LAYER WITH ZERO PERMITTIVITY N64-27167 19-24

PLASMA LAYER EFFECT ON VOLTAGE DISTRIBUTION OF SLOT ANTENNA
RR-346 N64-27780 19-08

PROPAGATION OF SURFACE WAVES ALONG INFINITE, PERFECTLY CONDUCTING PLANE SURFACE COATED WITH PLASMA LAYER AND SUBJECTED TO DC MAGNETIC FIELD
REPT.-1565-6 N64-29413 21-08

ANTENNA PATTERN DISTORTION PRODUCED BY LAYER OF PLASMA
AFCRL-64-511 N64-31682 23-08

OBSERVATIONS ON SOLAR AND COSMIC RADIATION INTENSITY, PARTICLES AND PLASMA LAYER DISTRIBUTION, AND MAGNETIC FIELD VARIATIONS FROM MARS I SPACECRAFT
FTD-TT-64-237/1626364 N64-33221 24-29

PLASMA OSCILLATION
OSCILLATION OF PLASMA ELECTRONS BY ELECTRON BEAM INTERACTION
MIT-TR-407 N64-10014 01-24

EFFECT OF COLLISION ON COUPLING BETWEEN PLASMA ION OSCILLATIONS AND ELECTRIC CURRENTS
MATT-176 N64-11473 03-24

MICROWAVE-FREQUENCY ASPECTS OF ELECTRON-BEAM-INDUCED PLASMA SYSTEM - OSCILLATION AND PROPAGATION MODES
AFCRL-63-381 N64-13621 05-24

CALCULATION OF LOWEST MODES OF OSCILLATION FOR NONUNIFORM PLASMAS CONFINED BY MAGNETIC FIELDS
MATT-232 N64-14235 06-24

INCOHERENT ELECTROMAGNETIC SCATTERING FROM DRIVEN PLASMA OSCILLATIONS
MATT-230 N64-16937 09-24

ULTRAHIGH VACUUM RESEARCH AND PLASMA OSCILLATION STUDIES
FTD-TT-63-88/162 N64-17179 09-23

EQUATIONS FOR ELECTRON BEAM AND PLASMA DISTRIBUTION IN PRESENCE OF OSCILLATIONS N64-17182 09-24

PLASMA OSCILLATION - LANDAU DAMPING AND RESONANT ENERGY ABSORPTION
NASA-CR-53177 N64-17580 09-23

PERTURBATION STUDY OF NONLINEAR PLASMA OSCILLATION
TN-313 N64-19104 11-24

LONGITUDINAL PLASMA OSCILLATIONS - DISPERSION, VELOCITY DISTRIBUTION, AND PHYSICAL MECHANICS OF PLASMA INSTABILITY
NASA-CR-53821 N64-19314 12-24

GENERATION OF RADIO NOISE BY PLASMA OSCILLATIONS N64-19496 12-24

DAMPING OF QUANTIZED LONGITUDINAL PLASMA OSCILLATIONS
NASA-CR-53875 N64-19789 12-24

PLASMA OSCILLATIONS OF CONDUCTION ELECTRONS AND HOLES OF PI-BAND IN GRAPHITE - QUANTUM MECHANICS
NUP-64-3 N64-20525 13-23

COLLISION DAMPING OF LONG WAVELENGTH ELECTROSTATIC OSCILLATIONS IN HIGH TEMPERATURE PLASMA N64-20651 13-24

EXCITATION OF PLASMA OSCILLATIONS BY SHOCK WAVES
AFCRL-63-577 N64-21292 14-24

EFFECT OF ION VELOCITY DURING EXCITATION OF PLASMA OSCILLATIONS BY ION BEAM
FTD-TT-64-115/162 N64-21971 15-24

NONLINEAR LANDAU DAMPING OF OSCILLATIONS IN BOUNDED PLASMA N64-25735 17-24

EXCITATION LEVEL OF PLASMA OSCILLATIONS
IPP/6/18 N64-28003 20-24

SELF-SUSTAINED OSCILLATIONS OF QUANTUM MECHANICAL ELECTRON GAS IN UNIFORM MAGNETIC FIELD
TR-22 N64-28716 20-24

CONVERSION OF PLASMA KINETIC ENERGY TO ELECTROMAGNETIC ENERGY - EVALUATION OF CYCLOTRON RADIATION FROM PLASMA AS ENERGY SOURCE IN RADAR SYSTEMS
RADC-TDR-64-174 N64-29966 21-24

ELECTROMAGNETIC RADIATION FROM PLASMA OSCILLATIONS AND TYPE III SOLAR RADIO BURSTS N64-30292 22-28

PLASMA OSCILLATIONS IN ANISOTROPIC MATERIALS FOR MICROWAVE POWER GENERATION AND AMPLIFICATION - PYROLYTIC GRAPHITE
REPT.-1 N64-30763 22-24

PLASMA OSCILLATIONS IN ANISOTROPIC MATERIALS LIKE PYROLYTIC GRAPHITE FOR MICROWAVE GENERATION AND AMPLIFICATION
REPT.-3 N64-31114 22-23

PLASMA PHYSICS
SA CYCLOTRON RESONANCE
SA LIOUVILLE EQUATION
SA MAGNETOHYDRODYNAMICS
SA THERMODYNAMICS
CF NUCLEAR PHYSICS
PYROTRON, ASTRON, LIVERMORE PINCH, AND PLASMA PHYSICS PROGRAMS
UCRL-10852 N64-10317 01-24

CONFERENCE ON PLASMA PHYSICS AND CONTROLLED THERMONUCLEAR FUSION RESEARCH N64-10449 01-23

SELECTED ARTICLES ON PLASMA PHYSICS, THERMAL IONIZATION, ELECTRIC EXPLOSIONS, & CONVECTIVE HEAT TRANSFER
FTD-TT-62-1778/1&2 N64-11711 03-01

FUNDAMENTAL GAS AND PLASMA DYNAMICS - SQUID PROJECT N64-13479 05-24

THERMODYNAMIC PROPERTIES OF ARGON, NITROGEN AND OXYGEN PLASMAS
AEDC-TDR-64-12 N64-14139 05-24

MECHANISMS OF HIGH POWER MICROWAVE ENERGY ABSORPTION AND THERMAL ENERGY TRANSFER IN GASES - PLASMA PHYSICS N64-14219 06-24

MAGNETIC FIELD ANNIHILATION RATE AT BOUNDARY BETWEEN PLASMA REGIONS WITH OPPOSING FIELD LINES - SOLAR FLARE MECHANISMS & MAGNETOHYDRODYNAMIC WAVES
AMP-123 N64-14318 06-28

TRANSITION BOUNDARY LAYER SEPARATING UNIFORM MAXWELLIAN PLASMA FROM ITS CONFINING MAGNETIC FIELD
AFCRL-63-376 N64-14328 06-24

ELECTRIC ARCS, HIGH SPEED PHOTOGRAPHY, ACOUSTIC NOISE SPECTROMETRY, TEMPERATURE MEASUREMENTS, AND SPECTROMETER CONSTRUCTION - PLASMA PHYSICS
LAS-SR-239-3 N64-14777 06-24

MICROWAVE RESEARCH - ELECTROMAGNETICS, PLASMA ELECTROPHYSICS & ELECTRONICS, SOLID STATE & MATERIALS RESEARCH, MICROWAVE CIRCUITS & SYSTEMS
R-452.24-63 N64-14826 06-23

EFFECT ON BACK SCATTERING BY SIMPLE PLASMA CONFIGURATION OF INCIDENT ELECTROMAGNETIC WAVE PATTERNS
GASL-TR-372 N64-15749 07-24

ELECTRODYNAMICS AND PLASMA PHYSICS IN COSMOLOGY AND ASTROPHYSICS
NASA-TT-F-175 N64-17162 09-24

PLASMA DIAGNOSTIC METHODS FOR HIGH TEMPERATURE PLASMA RESEARCH
ARL-64-6 N64-17453 09-24

EXPLORER VIII SATELLITE MEASUREMENTS OF IONOSPHERE ION COMPOSITION, SPACECRAFT-PLASMA INTERACTIONS, & ELECTRON TEMPERATURES
NASA-TM-X-54573 N64-17602 09-12

SURVEILLANCE TECHNIQUES, RADIO PROPAGATION, AND PLASMA PHYSICS
ESD-TDR-64-574 N64-17629 09-01

BIOCHEMICAL FUEL CELLS, PLASMA PHYSICS - MHD AND THERMIONICS, THERMAL ENERGY STORAGE, THERMAL TRANSPORT, AND SOLAR REFLECTOR RESEARCH
NASA-CR-53557 N64-18304 10-23

THERMAL AND OPTICAL PROPERTIES OF PLASMAS
FTD-MT-63-188 N64-18691 11-24

COLLISION PROCESSES IN GASEOUS PLASMAS
SATR-1 N64-18704 11-24

GAS AND PLASMA DYNAMICS RELATED TO NUCLEAR FUSION AND MAGNETOHYDRODYNAMIC POWER GENERATION - SQUID PROJECT N64-18855 11-24

PROBLEMS OF MAGNETOHYDRODYNAMICS AND PLASMA PHYSICS
FTD-TT-62-1301/1&2 N64-19048 11-24

USE OF FOCUSED FABRY-PEROT INTERFEROMETER AT MICROWAVE FREQUENCIES FOR PLASMA DIAGNOSTICS
TM-63-210 N64-19083 11-24

ABSTRACTS OF ARTICLES ON ELECTRON AND PLASMA BEAM DYNAMICS - BIBLIOGRAPHY
AFCRL-64-95 N64-19631 12-24

PLASMA PRESSURE AND TEMPERATURE MEASUREMENTS USING INDUCTIVE COUPLING BETWEEN TWO LOOPS
MATT-250 N64-19717 12-24

PLASMA DIAGNOSTICS USING ELECTROMAGNETIC MICROWAVE TECHNIQUE N64-19842 12-24

PLASMA PHYSICS, RADIATIVE AND CONVECTIVE HEAT TRANSFER IN PLANETARY ATMOSPHERES, STELLAR STRUCTURE, AND GALACTIC DYNAMICS
NASA-CR-53869 N64-19954 12-05

MOLECULAR STORAGE AND TRANSFER OF ELECTROMAGNETIC ENERGY IN GASEOUS PLASMAS - ATOM RECOMBINATION
RADC-TDR-63-275 N64-20025 13-24

HYDROMAGNETICS AND PLASMA PHYSICS
AFCRL-63-907 N64-20107 13-24

MAGNETIC MIRROR FOR CONTAINMENT OF HIGH TEMPERATURE PLASMAS FOR STUDY OF PLASMA STABILITY, COMPRESSION, HEATING, TRANSPORT, AND DYNAMICS
RTD-TDR-63-4143 N64-20115 13-24

MICROWAVE INTERACTION WITH BOUNDED GYROELECTRIC PLASMAS
TR-31 N64-20129 13-24

DRIFT SURFACES OF GUIDING CENTER MOTION AND PLASMA BEHAVIOR IN BUMPY TORUS STATIC MAGNETIC FIELD
UCRL-7246 N64-20281 13-24

ACOUSTIC WAVE AMPLIFICATION, OPTICAL MASERS, FERRITE NONLINEAR PROPAGATION, AND INTERACTIONS OF ELECTRON BEAM AND PLASMA
ML-1122 N64-20399 13-23

RESEARCH ACTIVITIES IN SOLID STATE AND PLASMA PHYSICS, AND HIGH AND LOW ENERGY PHYSICS
NUP-64-2 N64-20429 13-23

PLASMA PHYSICS - SIMPLIFIED METHOD FOR STUDYING WAVE DISTURBANCES IN PARTIALLY-IONIZED GASES
AMP-136 N64-20455 13-24

KINETIC THEORY OF STABLE PLASMAS - NON-MARKOVIAN EFFECT
IPPJ-24 N64-20524 13-24

THETA PLASMA PINCH NUMERICAL ANALYSIS BY COMPUTER PROGRAM
LAMS-2944 N64-20634 13-24

PLASMA PHYSICS & PLASMA ACCELERATOR RESEARCH N64-20808 14-27

SPACE CHARGE SHEATHS - MAGNETIC FIELDS, IONIC WAVES, AND RELATED PLASMA PHYSICS
EUR-495.I N64-21114 14-24

NONEQUILIBRIUM IONIZATION AND MAGNETOHYDRODYNAMIC PHENOMENA IN PLASMAS
R645D36 N64-21155 14-24

SECULAR AND NONSECULAR BEHAVIOR FOR NONLINEAR COLD ELECTRON PLASMA EQUATIONS
NASA-RP-182 N64-21306 14-24

PLASMA DIAGNOSIS BY MEANS OF PHOTON-ELECTRON SCATTERING
AFCRL-64-242 N64-21314 14-24

THEORIES OF MOLECULAR STRUCTURE AND PLASMA PHYSICS IN FIRST PICOSECOND OF WIRE EXPLOSION N64-21378 14-23

NUCLEAR, PLASMA, SOLID STATE, & ATOMIC PHYSICS RESEARCH
ORNL-3582 N64-21484 14-23

WAVE MOTION IN PLASMA BASED ON FOKKER-PLANCK EQUATION
NYO-9371 N64-21846 15-25

INVARIANT GROUP SOLUTION OF EQUATIONS OF PLANAR STATIONARY BEAM OF CHARGED PARTICLES - PLASMA PHYSICS
FTD-TT-62-1810/1&2&4 N64-22404 15-24

RAREFIED GAS & PLASMA MECHANICS

ARL-64-60 N64-22698 15-24

PLASMA PHYSICS - STRUCTURE OF DISTURBANCE ZONE NEAR ELECTRIC FIELD IN PLASMA
NASA-TT-F-9013 N64-22943 16-24

MAGNETOHYDRODYNAMICS, FLOW THEORY, AND PLASMA PHYSICS
FTD-TT-62-1695/1&2 N64-23479 16-24

PLASMA PHYSICS, ELECTRON-CYCLOTRON HEATING, CROSS-SECTION MEASUREMENTS, ION AND ATOMIC BEAMS, MAGNETICS AND SUPERCONDUCTIVITY, & VACUUM SYSTEMS
ORNL-3652 N64-25293 17-23

ELECTRONIC RESEARCH IN CIRCUIT THEORY, ELECTRON STREAMS AND INTERACTIONS, PLASMAS AND SOLID-STATE SYSTEMS
QPR-12 N64-25695 17-09

KINETIC THEORY OF SPHERICAL ELECTROSTATIC PROBE IN SLIGHTLY IONIZED PLASMA
AD-441726 N64-25727 17-23

SURFACE AND ATOMIC PHYSICS, COMPUTER DESIGNS, PLASMA PHYSICS, SYSTEM DESIGNS, MAGNETIC SUPERCONDUCTORS, VOLTAGE BREAKDOWN, AND THIN FILMS RESEARCH
AD-438840 N64-25885 18-01

EQUILIBRIUM OF PLASMA IN TOROID WITH FINITE RESISTIVITY, INERTIA, AND DENSITY GRADIENT DRIFT
MATT-283 N64-26699 18-24

CONSTANTS OF LINEARIZED MOTION OF VLASOV PLASMAS
MATT-253 N64-27143 19-24

LINEAR SLIDE RULE FOR COMPUTING ISOTROPIC PLASMA COMPONENTS FROM PLASMA AND ELECTRON COLLISION FREQUENCIES
REPT.-1565-10 N64-27772 19-15

MICROWAVE CAVITY TECHNIQUES FOR SPATIAL DISTRIBUTION OF ELECTRONS IN PLASMA COLUMNS AND MEASUREMENT OF THERMAL RADIATION FROM HIGHLY IONIZED CURRENT CARRYING PLASMA
USCEC-103-101 N64-28617 20-24

RESEARCH PROJECTS IN BIOLOGY, PLASMA PHYSICS, RADIATION, PROPELLANTS, AND SOLID STATE PHYSICS
NASA-CR-58625 N64-28891 20-23

RESEARCH IN PLASMA PHYSICS AND MAGNETOGASDYNAMICS
NASA-CR-56944 N64-28921 20-24

APPLICABILITY OF PERTURBATION THEORY TO NONDEGENERATE PLASMAS
NUP-64-7 N64-30068 21-24

PLASMA ELECTRON DENSITIES, SCINTILLATION COUNTERS, AND WAVE PROPAGATION IN PLASMAS
FTD-MT-64-214 N64-30356 22-24

METHODS FOR ENERGY CONVERSION IN BIOCHEMICAL FUEL CELLS, PLASMA PHYSICS, AND THERMAL ENERGY STORAGE
NASA-CR-58809 N64-30521 22-06

LONGITUDINAL DIELECTRIC CONSTANT OF FULLY IONIZED PLASMA
LP-31 N64-30549 22-24

RESEARCH IN ATOMIC, PLASMA, AND SURFACE PHYSICS, ELECTRIC VACUUM GYROSCOPE, COMPUTER STATISTICS, IONIZATION GAUGES, AND SEMICONDUCTORS
AD-420532 N64-31244 22-23

PLASMA PHYSICS STUDIES - PLASMA ION GENERATOR DISCHARGE TUBE, HEATING AND CONFINEMENT OF PLASMA, AND MAGNETOHYDRODYNAMICS N64-32345 23-24

RESEARCH IN MICROWAVE AND QUANTUM ELECTRONICS - PLASMA AND LOW NOISE TECHNIQUES
AL-TDR-64-158 N64-32672 23-24

ION AND PLASMA TECHNOLOGY FOR SPACE PROPULSION, POWER GENERATION, AND NUCLEAR FUSION APPLICATIONS
N64-32774 24-24

LANGMUIR PROBE RESPONSE TO PERIODIC WAVEFORM AND APPLICATION TO STUDY OF LABORATORY PLASMAS OR CHARGED PARTICLES IN SPACE N64-33151 24-24

MICROWAVE RESEARCH IN ELECTROMAGNETICS, PLASMA ELECTROPHYSICS & ELECTRONICS, SOLID STATE & MATERIALS, MICROWAVE CIRCUITS, NETWORK THEORY, AND SYSTEMS, COMMUNICATIONS, & CONTROL
R-452.25-64 N64-33415 24-09

INTERACTION OF PLASMOIDS WITH EXTERNAL MAGNETIC FIELDS
FTD-MT-64-32 N64-33827 24-24

PLASMA PROPULSION
SA PLASMA ENGINE
MAGNETOHYDRODYNAMIC COAXIAL PLASMA GUN PROPULSION - IMPULSE DISCHARGE, CURRENT DISTRIBUTION & PLASMA VELOCITY
NASA-CR-52338 N64-10180 01-24

ELECTROTHERMAL PLASMA PROPULSION - SUBSTITUTION OF WATER-COOLED OR TUNGSTEN ELECTRODES FOR CONSUMABLE ELECTRODES N64-21703 15-24

COAXIAL PLASMA GUN WITH STORAGE CAPACITOR EXHIBITING PULSE LINE BEHAVIOR FOR SPACE PROPULSION
NASA-CR-54149 N64-29222 21-27

ADVANCED PROPULSION CONCEPTS - SYMPOSIUM N64-31601 23-27

IMPULSIVE MHD DEVICES AS SPACE ENGINES N64-31605 23-27

PLASMA FLOW IN MAGNETIC ANNULAR ARC NOZZLES N64-31606 23-27

MAGNETOHYDRODYNAMIC POWER GENERATION FOR PLASMA PROPULSION N64-31611 23-06

PLASMA RADIATION
STRATIFIED PLASMA RADIATING INTO WAVEGUIDE SLOT - ANTENNA
AFCRL-63-394 N64-18336 10-24

SOLUTION OF KINETIC EQUATIONS FOR PLASMA INCLUDING RADIATION
MATT-195 N64-18352 10-24

ENERGY RADIATION IN PLASMA FROM ROTATING CHARGE DISTRIBUTION IN MAGNETIC FIELD
NASA-CR-53586 N64-18436 10-24

MICROWAVE EMISSION FROM CYLINDRICAL PLASMA N64-24676 17-24

BACKSCATTERING BY PLASMA-CONTAINING INFINITE CYLINDER UNDER OBLIQUE ILLUMINATION
TR-387 N64-25351 17-24

PLASMA CERENKOV RADIATION FROM POINT PROJECTILE AND EXTENSION TO PROJECTILE OF FINITE SIZE
D1-82-0263 N64-26013 18-24

ANOMALOUS MICROWAVE RADIATION AT CYCLOTRON RESONANCE IN PARTIALLY IONIZED PLASMAS
IPPJ-25 N64-26740 18-24

ELECTROMAGNETIC & ELECTROACOUSTIC WAVE RADIATION IN PLASMA
AFCRL-64-473 N64-29833 21-24

PLASMA SHEATH
CALCULATED RADIO ATTENUATION DUE TO PLASMA SHEATH ON HYPERSONIC BLUNT-NOSED CONE N64-11900 03-24

PROPAGATING ELECTROMAGNETIC SIGNALS AT NORMAL INCIDENCE THROUGH PLASMA SHEATH UPON HYPERSONIC BLUNT-NOSED REENTRY BODIES - COMPUTER PROGRAM
RADC-TDR-63-412 N64-12208 03-02

PLASMA SHEATH PROPERTIES ABOUT VEHICLES MOVING THROUGH THE IONOSPHERE
NASA-CR-55100 N64-12394 03-24

SURFACE IMPEDANCE OF THIN PLASMA SHEETS
TDR-269/4280-10/-1 N64-12580 04-24

MICROWAVE HORN ANTENNA CHARACTERISTICS IN PRESENCE OF PLASMA SHEATH GENERATED IN HELIUM
AFCRL-63-541 N64-14368 06-09

SURFACE WAVES ON METAL ROD SHEATHED WITH ISOTROPIC CONCENTRIC PLASMA - PRINCIPAL AND HIGHER MODES
PIBMRI-1197-63 N64-14691 06-24

THERMIONIC EMISSION OF ELECTRONS FROM HOT BODIES SURROUNDED BY PLASMA - ELECTRIC POTENTIAL FIELD & ELECTRON DENSITY DISTRIBUTION AROUND BODY
NASA-RP-124 N64-14930 06-29

COMPLETE RADIATION PATTERN OF AXIAL ANTENNA SLOT ON PLASMA-CLAD CYLINDER, FOR USE IN REENTRY VEHICLE COMMUNICATIONS ENGINEERING
USCEC-82-201 N64-15077 07-09

SOLUTION FOR PROPAGATION OF PLANE HARMONIC ELECTROMAGNETIC WAVES ACROSS STRATIFIED PLASMA LAYER N64-15255 07-24

SOLUTION FOR PROPAGATION OF ELECTROMAGNETIC WAVES IN INHOMOGENEOUS THIN FILM SHEATH N64-15256 07-24

NONLINEAR TRANSMISSION CHARACTERISTICS OF PLASMA SHEATH SURROUNDING TYPICAL HYPERSONIC REENTRY VEHICLE
AFCRL-63-133 N64-15584 07-24

RADIATION PATTERNS FROM AXIAL SLOT ON INFINITE CIRCULAR CYLINDER WITH RADIALLY INHOMOGENEOUS PLASMA COATING
USCEC-82-210 N64-15805 07-24

RADIATION FIELD OF MAGNETIC DIPOLE ANTENNA IN CONICAL SHEATH
SSD-TDR-63-319 N64-15812 07-24

EFFECT OF INTERACTION BETWEEN SATELLITE CHARGE AND AMBIENT IONS ON SATELLITES
AIAA PAPER-64-32 N64-16726 08-29

ELECTRON BEAM MEASUREMENT OF FIELD EMISSION IN PLASMA SHEATH
ARL-64-14 N64-16776 08-24

RADIOFREQUENCY BEHAVIOR OF PLASMA SHEATH
ARL-64-15 N64-16777 08-24

EXACT SOLUTION OF COLLISIONLESS PLASMA SHEATH EQUATION
ARL-64-13 N64-16794 08-24

NUMERICAL CALCULATIONS RELATED TO RADIOFREQUENCY PROPERTIES OF PLASMA SHEATH
ARL-64-17 N64-16795 08-24

DYNAMICS OF PLASMA CURRENT SHEATH AND MAGNETOSONIC RESONANCE IN MAGNETOPLASMAS N64-17354 09-24

REDUCTION OF ELECTROMAGNETIC BACKSCATTER FROM PLASMA SHEATHED CONDUCTING BODY - HYPERVELOCITY PROJECTILE
ESD-TDR-63-589 N64-17364 09-24

ELECTROMAGNETIC WAVE OBLIQUE INCIDENCE ON GENERAL MAGNETOPLASMA SLAB
REPT.-116-36 N64-17457 09-24

MEASUREMENTS OF RADIO NOISE PRODUCED BY HYPERSONIC PLASMA SHEATH
AD-429411 N64-18354 10-24

PLASMA DIAGNOSTICS USING RAMAN SCATTERING OF LASER BEAM FROM PLASMAS
RADC-TDR-64-5 N64-18566 11-24

CAPABILITY OF PLASMA GENERATORS TO PROVIDE DATA FOR DETERMINING TELEMETRY-PLASMA SHEATH INTERACTIONS
A-220 N64-20274 13-24

RADAR-PLASMA ABSORPTION EFFECT - REDUCTION OF RADAR CROSS SECTION OF BODY SURROUNDED BY PLASMA SHEATH
TR63-217A N64-20562 13-24

SPECULAR REFLECTION OF PLANE WAVE BY PLASMA-CLAD CONDUCTING BODY OF REVOLUTION
RCA-DTM-63-05 N64-20568 13-24

QUANTITATIVE ANALYSIS OF PLASMA SHEATH ABOUT LANGMUIR PROBE
NASA-CR-53971 N64-20587 13-24

SPACE CHARGE SHEATHS - MAGNETIC FIELDS, IONIC WAVES, AND RELATED PLASMA PHYSICS
EUR-495.I N64-21114 14-24

SIMULATION OF THIN PLASMA SHEATH BY PLANE OF WIRES
SSD-TDR-64-29 N64-21243 14-24

DEGRADATION IN INFORMATION CONTENT OF SURVEILLANCE AND COMMUNICATION SIGNALS TRANSMITTED THROUGH PLASMA SHEATH
RADC-TDR-63-548 N64-22275 15-24

SIMULATION OF PLASMA SHEATH USING ARTIFICIAL DIELECTRIC - APPLICATION TO ANTENNA GEOMETRY
SSD-TDR-64-90 N64-22561 15-24

ANNOTATED BIBLIOGRAPHY ON RADIO FREQUENCY TRANSMISSION THROUGH PLASMA SHEATH OF REENTRY VEHICLES
SB-64-10 N64-23884 16-24

PLASMA SHEATH AND SCREENING AROUND STATIONARY CHARGED SPHERE AND FAST-MOVING CHARGED BODY
NASA-CR-56226 N64-23930 16-23

RADIATION MEASUREMENTS FROM PLASMA SHEATH SURROUNDING HYPERSONIC PROJECTILE N64-26154 18-24

RELATIONSHIP FOR PLASMA SHEATHS ABOUT LANGMUIR PROBES
AFCRL-64-429 N64-26907 18-24

LANGMUIR PROBE USED TO MEASURE ELECTRON DENSITY IN PLASMA SHEATH AROUND REENTRY VEHICLE
NASA-CR-56371 N64-27909 20-24

PHYSICAL OPTICS MODEL FOR STUDY OF PLASMA SHEATH EFFECT ON HEAD-ON RADAR CROSS SECTION OF BLUNT BODIES
CARDE-TR-507 N64-28016 20-24

ANTENNA WINDOW - TECHNIQUE FOR RADIO PROPAGATION THROUGH PLASMA SHEATH
BSR-985 N64-29761 21-08

WAVE PROPAGATION ALONG ANNULAR ELECTRON CURRENT PLASMA SHEATH
TN-2 N64-30977 22-09

RADAR ABSORPTION EFFECT CAUSED BY VERY THIN PLASMA SHEATHS
CTN64-02 N64-31136 22-24

PLASMA SPECTRUM
THEORETICAL CALCULATION OF SPECTRAL ABSORPTION COEFFICIENT PRODUCED BY BOUND-FREE AND FREE-FREE TRANSITIONS IN PLASMAS CONTAINING POLYELECTRONIC ATOMS AND IONS N64-26287 18-24

PLASMA SPRAYING
CF FLAME SPRAYING
METALLURGICAL BONDING BETWEEN PLASMA SPRAYED TUNGSTEN & HOT TUNGSTEN SUBSTRATES - INTERFACE & RECRYSTALLIZATION
NASA-RP-41 N64-10286 01-24

HIGH TEMPERATURE HEATERS FORMED BY VACUUM DEPOSITION ON PLASMA-FLAME SPRAYED DIELECTRIC SUBSTRATES OF ALUMINUM OXIDE
ASD-TDR-62-662 N64-24097 16-13

PLASMA SPRAYING TUNGSTEN N64-25422 17-17

PLASMA-SPRAYED OXIDE & VAPOR-DEPOSITED NITRIDE PROTECTIVE COATINGS ON TUNGSTEN N64-27015 19-17

METALLURGICAL BONDING BETWEEN PLASMA-SPRAYED TUNGSTEN AND HOT TUNGSTEN SUBSTRATES N64-27016 19-17

FLAME AND PLASMA SPRAYING METHODS FOR COATING REFRACTORY METAL SHEET N64-27027 19-19

METALLURGICAL BONDING OF PLASMA SPRAYED TUNGSTEN ON HOT MOLYBDENUM SUBSTRATES
NASA-RP-342 N64-33061 24-17

COMPRESSIBILITY COMPARISONS, HOT PRESSING, SINTERING, PLASMA SPRAYING, AND SLIP CASTING TECHNIQUES FOR POWDER METALLURGY
N64-33509 24-18

PLASMA STABILITY
ROLE OF MAGNETOHYDRODYNAMICS, MAGNETIC FIELDS, AND CONDUCTIVE PLASMA INSTABILITIES IN SOLAR FLARE ORIGIN
NASA-RP-72 N64-10977 02-28

LOW-FREQUENCY INSTABILITIES OF FULLY IONIZED GAS
MATT-214 N64-13154 04-24

EQUILIBRIUM AND STABILITY OF CHARGED, CONFINED PLASMA
FTD-TT-61-67/1&2 N64-16038 07-24

HYDROMAGNETIC PLASMA STABILITY STUDIES - BIBLIOGRAPHY AND SUMMARY
SIT-P104/11/63/ N64-19161 11-24

LONGITUDINAL PLASMA OSCILLATIONS - DISPERSION, VELOCITY DISTRIBUTION, AND PHYSICAL MECHANICS OF PLASMA INSTABILITY
NASA-CR-53821 N64-19314 12-24

HYDRODYNAMIC STABILIZATION OF PLASMA IN TOROIDAL SYSTEMS
MATT-279 N64-26457 18-24

STELLARATOR RESEARCH, PLASMA KINETIC THEORY AND STABILITY, AND RELATED PROGRAMS IN PHYSICS AND ENGINEERING
MATT-Q-21 N64-26682 18-24

BIBLIOGRAPHY ON MAGNETIC DIFFUSION & DRIFT INSTABILITIES OF PLASMAS
MATT-285 N64-28421 20-24

CONDITION FOR PLASMA STABILITY INCLUDING FINITE LARMOR RADIUS EFFECTS
MATT-289 N64-28422 20-24

PLASMA TEMPERATURE
PLASMA TEMPERATURE MEASUREMENT DEVICE
FTD-TT-64-604/1&2 N64-33528 24-15

CLOSED LOOP MAGNETOPLASMADYNAMIC POWER DEVICE, AND SPECTROSCOPIC MEASUREMENT OF PLASMA TEMPERATURE & PRESSURE
REPT.-3632 N64-33824 24-24

PLASMA THEORY
MODEL FOKKER-PLANCK EQUATION FOR SINGLE SPECIES OF PARTICLES IN PLASMA
NASA-CR-53200 N64-17584 09-24

RADIOPHYSICS, PLASMA DYNAMICS, AND COMMUNICATIONS THEORY
QPR-72 N64-17876 10-01

STATISTICAL PLASMA THEORY - KINETIC EQUATION FOR PLASMA
LP-29 N64-21689 15-24

PLASMA THEORY FOR ACOUSTIC COMBUSTION INSTABILITY
WSS/CI PAPER-64-13 N64-24377 17-26

VERIFICATION OF HOT PLASMA THEORY FOR MICROWAVE PROPAGATION AT SECOND HARMONIC ELECTRON CYCLOTRON RESONANCE
MATT-265 N64-26540 18-24

ELECTRON BEAM, SOLID STATE, AND PLASMA STUDIES
MDL-Q8 N64-27996 20-23

PLASMA TURBULENCE
BOUNDARY LAYER TRANSITION AND PLASMA TURBULENCE - SQUID PROJECT N64-13478 05-24

BOUNDARY LAYERS OF TURBULENT FLOWS AND PLASMA TURBULENCE - SQUID PROJECT N64-18853 11-24

BACKSCATTER OF ELECTROMAGNETIC RADIATION FROM TURBULENT PLASMA
IDA/HQ-63-2024 N64-21622 15-24

PLASMA TURBULENCE - RANDOM FLUCTUATION OF MAGNETIC FIELD DURING LINEAR PINCH
ATN-64/9231/-3 N64-22125 15-24

SPECTRUM OF IONIZED AND NEUTRAL PARTICLE DENSITY FLUCTUATIONS IN THERMALLY PRODUCED TURBULENT PLASMA
TR-15 N64-22891 16-24

KINETIC EQUATIONS FOR PLASMA TURBULENCE AND CATALYTIC ACTIVITY OF CHELATE POLYMERS
FTD-TT-62-1795/1&2&4 N64-22997 16-24

KINETIC EQUATIONS FOR TURBULENCE IN HOMOGENEOUS PLASMA N64-22998 16-24

SPECTROSCOPIC TEMPERATURE MEASUREMENTS IN SMALL REGIONS OF TURBULENT ARC PLASMA GENERATOR
ML-TDR-64-243 N64-30164 21-24

PLASMA WAVE
MAGNETIC DISTURBANCES IN LUNAR SELENOMAGNETIC AND GEOMAGNETIC STORMS - PLASMA WAVE STUDY
NASA-CR-55433 N64-14841 06-29

CHEBYSHEV METHOD FOR ELECTROMAGNETIC FIELD SOLUTION OF RADAR CROSS SECTION OF PLASMA WAKE
N64-15254 07-24

IONOSPHERE AND LABORATORY GENERATED PLASMA WAVE PROPAGATION - MAGNETOHYDRODYNAMICS
AFCRL-63-782, VOL. 2 N64-16064 07-24

SPACE COMMUNICATION - ELECTROMAGNETISM, INFORMATION THEORY, MAGNETOSPHERE, & PLASMA WAVES
NASA-CR-53170 N64-17194 09-01

PLASMA WAVES AND SPACE COMMUNICATIONS
N64-17202 09-24

ANALYSIS OF WAVES IN BOUNDED, MAGNETIZED PLASMA - WAVE PROPAGATION N64-17353 09-24

RESONANCES AND WAVES IN IONIZED PLASMAS IN STRONG MAGNETIC FIELDS N64-17355 09-24

ANALOGOUS PROPAGATION MODES OF TRANSVERSE WAVES IN INHOMOGENEOUS PLASMA AND TAPERED WAVEGUIDE
MATT-237 N64-18341 10-24

EQUATION OF THIN CYLINDRICAL ANTENNA IN PLASMA WITH ALLOWANCE FOR SPATIAL DISPERSION
N64-23790 16-01

EXCITATION OF BACKWARD WAVE MODES IN PLASMA WAVEGUIDE N64-24669 17-24

PROPAGATING BACKWARD WAVE MODES IN PLASMA WAVEGUIDES N64-24671 17-01

EXCITATION OF NONLINEAR CURRENTS AND GENERATION OF HARMONIC WAVES IN ISOTROPIC PLASMA
AF-249815 N64-26247 18-24

DECELERATION AND ENERGY CONVERSION IN PLASMA EXPANDING IN VACUUM IN PRESENCE OF MAGNETIC FIELD
NASA-TT-F-239 N64-26837 18-24

EXCITATION OF LONGITUDINAL WAVES IN PLASMA BY TRANSVERSE RADIO WAVES
FTD-TT-64-174 N64-26885 18-24

PLASMA WAVE GENERATION IN SEMICONDUCTOR AND ELECTROMAGNETIC PROPAGATION IN WAVEGUIDE BY GAS DISCHARGE PLASMA
FTD-TT-64-292/1&2&4 N64-27002 19-24

GENERATION OF PLASMA WAVES BY ELECTRON FLOW IN SEMICONDUCTOR N64-27003 19-24

THEORY OF WAVE INTERACTION IN PLASMA
N64-27158 19-24

STRUCTURE OF STRONG COLLISIONLESS WAVE IN PLASMA PERPENDICULAR TO MAGNETIC FIELD
NASA-TM-X-55010 N64-27248 19-24

PLASMA WAVE PROPAGATION IN WAVEGUIDES OR MICROWAVE CIRCUITS N64-27999 20-24

USE OF BOLTZMANN EQUATION TO DERIVE DISPERSION LAW FOR COLLISIONS IN LONGITUDINAL PLASMA WAVES AND TRANSVERSE WAVE PROPAGATION
DI-82-0273 N64-29898 21-24

PLASMAGUIDE
DISPERSION RELATIONS, ELECTROMAGNETIC FIELD, AND POWER FLOW IN CYLINDRICAL PLASMA-FILLED WAVEGUIDE WITH AXIAL MAGNETIC FIELD
AD-428783 N64-15368 07-24

ELECTROMAGNETIC PROPAGATION MODES IN ANISOTROPIC PLASMAGUIDES AND RESONATORS
AL-TDR-64-157 N64-30981 22-24

PLASMOID
INTERACTION OF PLASMOIDS WITH EXTERNAL MAGNETIC FIELDS
FTD-MT-64-32 N64-33827 24-24

PLASTIC DEFORMATION
CF CRYSTAL STRUCTURE DEFECT
TRANSMISSION ELECTRON MICROSCOPY OF SUBSTRUCTURES OF PLASTICALLY DEFORMED COPPER UNDER STATIC AND SHOCK LOADING
UCRL-10932 N64-10396 01-18

TUNGSTEN-SILVER ROCKET NOZZLE MATERIAL - PLASTIC DEFORMATION
WAL-TR-372/32-8-T3 N64-10864 02-18

STRENGTH PROPERTIES OF METAL CRYSTALS - PLASTIC DEFORMATION & DISLOCATION OF WHISKER METALS
JPRS-22445 N64-12012 03-18

DEFECTS IN COMPRESSION LOADING OF LUBRICANT FILM AT TOOL-METAL INTERFACE IN PLASTIC COMPRESSION OF ALUMINUM
WAL-TR-620.5/1-1/F/ N64-12322 03-11

INTERNAL FRICTION DUE TO DISLOCATION IN SILICON CRYSTALS WITH CONTROLLED DEGREES OF PLASTIC DEFORMATION
ASD-TDR-62-431, PT. 2 N64-12670 04-25

PROPAGATION OF WAVES OF PLASTIC DEFORMATION IN RODS UNDERGOING FREE FLIGHT IMPACT WITH DIFFRACTION GRATING STRAIN GAGES
N64-13438 05-25

PLASTIC DEFORMATION AND FAILURE OF SILVER-STEEL FILAMENTARY COMPOSITE MATERIALS
ASRL-TR-94-5 N64-14002 05-33

SHEET METAL STABILITY UNDER BIAXIAL PLASTIC DEFORMATION
JPRS-23055 N64-14256 06-33

MICROPLASTIC BEHAVIOR OF POLYCRYSTALLINE NICKEL - DEFORMATION, MICROFLOW STRESS, & DIMENSIONAL STABILITY
SSD-TDR-63-348 N64-14346 06-18

ELASTIC & PLASTIC DEFORMATION OF METALS BY IMPACT AND EXPLOSIVE LOADING N64-15108 07-33

RESISTANCE OF HIGH TEMPERATURE ALLOYS TO SMALL PLASTIC DEFORMATIONS N64-17028 09-18

STRAIN AGING OF HIGH TEMPERATURE ALLOYS WITH RESISTANCE TO PLASTIC DEFORMATION
N64-17030 09-18

DIFFUSION OF COBALT IN NICKEL-CHROMIUM ALLOY AND PLASTIC DEFORMATION OF ALLOYS N64-17035 09-25

RELATION BETWEEN DIFFUSION AND HIGH TEMPERATURE RESISTANCE TO PLASTIC DEFORMATION OF NICKEL ALLOYS
N64-17037 09-18

RESISTANCE TO PLASTIC DEFORMATION OF NICKEL-IRON ALLOYS N64-17067 09-18

PLASTIC DEFORMATION - CREEP AND CARRYING CAPACITY OF SHELLS
RSIC-132 N64-17638 09-33

PLASTIC DEFORMATION AND ANISOTROPY IN TITANIUM ALLOYS AND SHEET STEEL
AD-431969 N64-17642 09-17

VALUES FOR LOW TEMPERATURE PLASTIC-DEFORMATION OF NIOBIUM DERIVED FROM CREEP TESTS, EQUIVALENT TO VALUES OBTAINED IN CONSTANT STRAIN RATE TESTS
ATN-64/9236/-9 N64-17781 09-18

STACKING FAULT ENERGY AND STRUCTURE DISLOCATION STUDY OF IRON-CHROMIUM-NICKEL ALLOYS AFTER PLASTIC DEFORMATION
UCRL-10890 N64-18984 11-25

METAL FATIGUE AND PLASTIC DEFORMATION - HARDENING AND STRESS RELAXATION HYPOTHESES
ONERA-TM-27/1963/ N64-19546 12-25

STRESS AND STRAIN DEVIATIONS IN THEORY OF PLASTICITY - PLASTIC DEFORMATION DETERMINATION
FTD-TT-63-642/1&2&4 N64-20116 13-23

PLANE-STRAIN DEFORMATION OF TITANIUM ALLOY - VARIATION OF PLASTIC ANISOTROPY WITH TEMPERATURE AND STRAIN
PR-2 N64-20268 13-17

THERMAL ENERGY EMISSION MEASUREMENTS IN PLASTIC TENSILE DEFORMATION OF METAL AT LOW TEMPERATURES
DI-82-0311 N64-20637 13-13

PLASTIC DEFORMATION MECHANISMS IN SINTERED ALUMINUM POWDER
EUR-550.F N64-20875 14-33

EFFECTS OF PLASTIC DEFORMATION, ANNEALING, AND FATIGUE ON ELECTRICAL PROPERTIES OF INDIUM ANTIMONIDE
AD-600256 N64-21583 15-25

PLASTIC RESPONSE OF SCALED MODELS OF NUCLEAR REACTOR OUTER CONTAINMENT STRUCTURE TO INTERNAL BLAST LOADING
BRL-MEMO-1530 N64-21808 15-33

PLASTIC DEFORMATION EFFECT ON MECHANICAL PROPERTIES OF NICKEL ALLOYS & METALLOGRAPHY OF MOLYBDENUM
FTD-TT-62-1169/1&2&4 N64-23457 16-18

HIGH TEMPERATURE PLASTIC DEFORMATION EFFECTS ON MECHANICAL PROPERTIES OF NICKEL BASE ALLOYS
N64-23458 16-18

PREDICTION OF BUCKLING OR COLLAPSE FAILURE MODE IN PLASTIC DEFORMATION OF CYLINDRICAL SHELLS
TR-4 N64-24392 17-33

DYNAMIC DISLOCATION IN CRYSTAL PLASTICITY
TR-7 N64-25791 17-25

EFFECTS OF LATERAL INERTIA ON PROPAGATION OF PLASTIC STRAIN IN CYLINDRICAL ROD
LAMS-3081 N64-26486 18-33

EFFECTS OF LIQUID-HELIUM-TEMPERATURE PLASTIC DEFORMATION ON SUPERCONDUCTIVITY TRANSITIONS IN LEAD-INDIUM ALLOYS
NASA-CR-58135 N64-26594 18-23

PLASTIC BUCKLING OF CYLINDRICAL SHELLS UNDER AXIAL COMPRESSION
AD-441942 N64-27420 19-33

MEASUREMENT OF PLASTIC DEFORMATIONS DUE TO MICROSTRAINS
SSD-TDR-64-124 N64-27492 19-19

OPERATOR VARIANCE IN DETERMINATION OF PLASTIC LIMIT OF COHESIVE SOILS
RR-117 N64-27604 19-14

DEFORMATION AND DESTRUCTION OF ROLLED BERYLLIUM OF DIFFERENT PURITIES
JPRS-26301 N64-28777 20-18

SLIP MECHANISMS IN PLASTIC DEFORMATION OF CRYSTALS NEAR YEILD POINT - FORMATION OF MICROCRACK NUCLEI
N64-29062 21-24

IMPACT VELOCITY EFFECT ON RESISTANCE OF METALS TO PLASTIC FLOW
FTD-MT-64-217 N64-30155 21-18

ROOM-TEMPERATURE SLIP IN ZONE-MELTED TUNGSTEN SINGLE CRYSTALS - PLASTIC DEFORMATION
NASA-RP-312 N64-30607 22-18

LARGE DYNAMIC PLASTIC DEFORMATIONS OF SIMPLE STRUCTURES SUBJECTED TO IMPULSE LOADING
ASRL-110-2 N64-30927 22-33

STRAIN GAUGE TECHNIQUES FOR DETERMINING MICROSTRAIN IN METALS AND ALLOYS - PLASTIC DEFORMATION
SSD-TDR-63-113 N64-31086 22-15

VISCO-PLASTIC FLOW IN INFINITE PLATE UPON IMPACT WITH CYLINDER
AD-602179 N64-32065 23-33

COMPUTER PROGRAMMED LOAD CYCLING FOR PLASTIC DEFORMATION MATERIAL TESTING AND VERIFICATION OF ELASTICITY THEORY
ONERA-TP-161 N64-33258 24-25

PLASTIC MATERIAL
CF MATERIALS SCIENCE
CF NONMETAL
METHOD FOR LINING STEEL TUBES WITH VINYL PLASTIC
JPRS-17468 N64-10559 01-17

TECHNICAL RESOURCES DIRECTORY IN PLASTICS - DIRECTORY OF KNOWLEDGEABLE GOVERNMENT PERSONNEL
PLASTEC-5A N64-10626 01-19

COLD WELDING OF PLASTIC METALS
JPRS-19103 N64-10815 02-18

PROPERTIES OF ELECTRIC INSULATED PLASTICS OF PHENOL-FORMALDEHYDE AND CARBAMIDE RESINS
JPRS-19519 N64-11218 02-19

ABLATION RATE OF INORGANIC FIBER REINFORCED PLASTICS EXPOSED IN ROCKET JETS
CPD-61 N64-11241 02-13

MECHANICAL PROPERTY CHANGES OF PLASTIC TUBULE SUBSTITUTED FOR BLOOD VESSEL IN CARDIOVASCULAR SYSTEM OF DOGS
JPRS-18644 N64-11316 02-16

LOW PRESSURE FORMING OF THERMOSETTING PLASTICS AND GLASS FIBERS
JPRS-22184 N64-11598 03-19

DESIGN AND FABRICATION OF PLASTICS CHARGE CASE FOR PROJECTOR CHARGE ANTISUBMARINE WEAPON
NOLTR-63-148 N64-12656 04-01

BONDING FOAM PLASTICS BY INTERNAL HEATING IN HIGH FREQUENCY FIELD
RSIC-85 N64-12920 04-19

CORROSION PROTECTION BY TRANSPARENT PLASTIC FILM BAGGING
RIA-TR-63-2583 N64-13315 04-19

ROLE OF CYBERNETICS AND PLASTICS IN MEDICINE
FTD-TT-63-732/1&4 N64-14333 06-16

USE OF PLASTIC MATERIALS IN MEDICINE
N64-14335 06-16

MECHANICAL SPALLATION OF PLASTIC CHARRING ABLATORS - THERMAL PROTECTION FOR REENTRY VEHICLES
R63SD53 N64-14679 06-13

POLYMERS, PLASTIC MATERIALS, SYNTHETIC FIBERS, ORGANIC & INORGANIC COMPOUNDS, METALS, AND ALLOYS
CRDL-SP-5-3 N64-14815 06-19

STRENGTH OF PLASTIC SANDWICH CONSTRUCTIONS
N64-15418 07-33

LARGE-AREA PLASTIC SCINTILLATION COUNTERS - CONSTRUCTION AND PERFORMANCE
CERN-64-4 N64-15611 07-23

ADHESIVES, PLASTICS, AND ISOTOPE RESEARCH
MLM-1157 N64-16265 08-23

STRUCTURAL DESIGNS OF FOAM PLASTIC FILLERS
FTD-TT-63-61/1&2 N64-16412 08-34

STRENGTH OF REINFORCED PLASTIC LAMINATES AT ELEVATED TEMPERATURES
RTD-TDR-63-4091 N64-16470 08-19

PHYSICAL AND MECHANICAL DESCRIPTION OF SHALLOW-DRAFT PLASTIC WATERCRAFT
JPRS-23786 N64-17348 09-10

AGING OF INSTALLED RUBBER & PLASTIC GASKETS IN SIMULATED FLIGHT HARDWARE
NASA-TM-X-54517 N64-17607 09-19

PLASTIC STABILITY OF SIMPLY SUPPORTED SPHERICAL PLATES UNDER EXTERNAL PRESSURE
NASA-CR-53358 N64-17821 09-33

FATIGUE TEST OF LAMINATED REINFORCED PLASTIC MATERIALS UNDER AXIAL LOAD
ASD-TDR-63-768 N64-17845 10-33

PHENYL SILANE PREIMPREGNATED GLASS FABRIC LAMINATES TESTED FOR HIGH TEMPERATURE STRUCTURAL PROPERTIES
ERR-FW-126 N64-18922 11-19

EQUATIONS FOR DYNAMIC RESPONSE OF THREE-DIMENSIONAL SHELLS OF ELASTIC-PLASTIC MATERIALS
ASRL-TR-110-1 N64-19110 11-33

THEORY FOR ULTRASONIC WELDING OF PLASTICS
FTD-TT-63-359/1&2&4 N64-19198 11-17

BACK SCATTERING PROPERTIES OF FOAMED PLASTICS
REPT.-5849-1-T N64-19276 11-19

HYPERVELOCITY IMPACT ON TRANSPARENT PLASTICS - PROJECTILE CRATERING, SHOCK WAVES, & FRACTURING
AEDC-TDR-64-49 N64-20035 13-21

THERMOPLASTIC AND THERMOSETTING POLYMERS FROM PHOSPHONITRILIC CHLORIDE TRIMER FOR HIGH TEMPERATURE ELECTRICAL APPLICATIONS
QR-2 N64-20386 13-07

PLASTIC BEARINGS WITH INVERTED FRICTION COUPLING
FTD-TT-63-242/1&2 N64-22189 15-19

INTERLAMINAR SHEAR OF FILAMENT-WOUND REINFORCED PLASTICS
QPR-3 N64-22294 15-33

THERMOCONDUCTIVITY AND THERMAL EXPANSION MEASUREMENTS OF PLASTICS AND COMPOSITES FOR CRYOGENIC APPLICATIONS
ML-TDR-64-33, PT. I N64-22554 15-19

FOAMED PLASTICS ON ORGANOSILICON RESINS COMBINED WITH ORGANIC POLYMERS
FTD-TT-62-1654/1&4 N64-22626 15-19

MOLECULAR STRUCTURE AND TENSILE PROPERTIES OF FILAMENT WOUND PLASTICS
NRL-6047 N64-23247 16-19

SCATTERING BY CELLULAR PLASTIC MATERIALS
REPT.-5849-1-F N64-23325 16-11

POLYESTER PLASTIC MATERIAL & METAL BONDING ADHESIVES
FTD-TT-62-940/1 N64-23451 16-01

POLYESTER PLASTIC MATERIALS N64-23452 16-19

PHOTOMULTIPLIER AND LIMITS OF RESOLVING TIMES DUE TO SCINTILLATOR CHARACTERISTICS - FAST DELAYED COINCIDENCE TECHNIQUE N64-23615 16-23

PLASTICS WITH RESISTANCE TO HYDROCHLORIC ACID ATTACK N64-24269 17-07

PLASTIC MATERIALS - CONFERENCE
PLASTEC-14 N64-24333 17-19

FABRICATION OF PLASTIC MISSILE RADOME
TM-1156 N64-25531 17-17

REGISTRATION OF INTENSITY OF COSMIC RADIATION BY PLASTIC SCINTILLATORS N64-25931 18-15

FAOLITE FOR CORROSION PROTECTION
FTD-TT-63-1169/1&2&3&4 N64-26036 18-19

MECHANICAL PROPERTIES OF PLASTIC FOAMS AND HONEYCOMBS FOR USE AS BACKUP CONFIGURATIONS FOR CENTAUR INTERMEDIATE BULKHEAD
MRG-312 N64-27212 19-19

EFFECTS OF VACUUM & SPACE RADIATION ON ELASTOMERS AND PLASTICS FOR COATINGS, SEALANTS, INSULATION, & LUBRICATION
RSIC-150, VOL.1 N64-27479 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - ELASTOMERS
RSIC-150, VOL. I, APPEND. A N64-27480 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - PLASTICS
RSIC-150, VOL. 1, APPEND. B N64-27481 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - COATINGS
RSIC-150, VOL. I, APPEND. C N64-27482 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - STRUCTURAL ADHESIVES
RSIC-150, VOL. I, APPEND. D N64-27483 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - ELECTRICAL INSULATION
RSIC-150, VOL. I, APPEND. E N64-27484 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - LAMINATES
RSIC-150, VOL. I, APPEND. F N64-27485 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - SEALS, O-RINGS, AND GASKETS
RSIC-150, VOL. I, APPEND. H N64-27487 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - RADIATION AT CRYOGENIC TEMPERATURES
RSIC-150, VOL. I, APPEND. I N64-27488 19-19

EPOXY RESIN RESEARCH FOR INPROVEMENT IN FILAMENT REINFORCED PLASTICS
QPR-4 N64-27750 19-07

PLASTICS AND COMPOSITE MATERIALS FOR AIR FORCE APPLICATIONS
ML-TDR-64-76 N64-27774 19-19

RELATION OF PROPERTIES OF COMPOSITE MATERIAL PLASTIC FILMS TO PROPERTIES OF COMPONENTS
RIA-64-731 N64-27788 19-19

PLASTICS FOR HIGH TEMPERATURE ENVIRONMENTS
N64-28188 20-19

THERMAL RADIATION TESTS ON STRETCHED ACRYLIC PLASTIC
NAEC-AML-1954 N64-28281 20-19

TEMPERATURE FIELD OF CYCLICLY DEFORMED ELASTO-PLASTIC MEDIUM N64-28493 20-13

BONDING BETWEEN GLASS AND PLASTICS
NASA-CR-58695 N64-28895 20-19

NOTCHED FLAT PANEL TEST FOR COMPRESSIVE STRENGTH OF FILAMENT WOUND PLASTIC STRUCTURAL MATERIALS
PR-5 N64-29373 21-33

CAPILLARY EXTRUSION RHEOMETER TO MEASURE FLOW PROPERTIES OF THERMOSETTING PLASTIC MOLDING POWDERS
MLM-1211 N64-29608 21-19

BEHAVIOR OF PLEXIGLAS UNDER SHOCK LOADING
NOLTR-64-66 N64-29865 21-19

INFRARED SPECTRA OF PLASTICS AND ELASTOMERS AFTER NUCLEAR IRRADIATION N64-30461 22-19

PLASTIC BEHAVIOR OF ARC-CAST MOLYBDENUM AND ELASTIC LINEAR STRAIN HARDENING OF ZINC ALLOY BEAM
ML-TDR-64-158 N64-30692 22-18

PENETRATION BALLISTICS OF REINFORCED FIBERGLASS PLASTIC PLATES
AROD-3842-2 N64-30698 22-19

MATERIALS HANDBOOK FOR STRUCTURAL PLASTICS IN AEROSPACE VEHICLES
ML-TDR-64-141 N64-30930 22-19

DYNAMIC STRESS-STRAIN BEHAVIOR OF PLASTICS AND ENGINEERING MATERIALS
AROD-3263-8 N64-31655 23-19

PLASTIC GENERAL-INSTABILITY OF TRANSVERSE RING-STIFFENED CYLINDRICAL SHELLS SUBJECTED TO EXTERNAL HYDROSTATIC PRESSURE
DTMB-1587 N64-31704 23-34

PLASTIC & GLASS REINFORCED PLASTIC FOR SHIPBOARD PIPELINES
TDCK-36363 N64-32019 23-19

COLD-SETTING PLASTIC MOLDING MATERIAL FOR INVESTMENT CASTING
JPRS-26697 N64-32126 23-17

BOUNDARY THEOREMS FOR RIGID PLASTIC MATERIAL UNDER CERTAIN CONDITIONS OF DYNAMIC LOADING
BU/DTMB/1 N64-32277 23-33

BACKWALL, THIN FILM, CADMIUM SULFIDE SOLAR CELL ON PLASTIC FILM SUBSTRATE N64-32730 24-06

BERYLLIUM COATED PLASTIC FILMS AS X-RAY SENSORY WINDOWS ON TANDEM DETECTION SATELLITES
MLM-1194 N64-32880 24-17

INDEXED BIBLIOGRAPHY OF CONFERENCE PAPERS ON PLASTIC MATERIAL
PLASTEC-17 N64-33137 24-19

PLASTIC GEARS FOR MILITARY USE
PLASTEC-16 N64-33299 24-19

PLASTICITY
CF DUCTILITY
CF ELASTICITY
CF ELASTOPLASTICITY
CF FLEXIBILITY
CF MECHANICAL PROPERTY
EFFECT OF ELECTROSLAG REMELTING ON PLASTICITY OF IRON-NICKEL-CHROMIUM BASE ALLOYS
JPRS-21760 N64-10123 01-18

EFFECT OF DISLOCATIONS & VACANCIES ON FATIGUE, BRITTLE FRACTURE, PLASTIC PROPERTIES, AND HEAT RESISTANCE OF METALS
JPRS-18817 N64-10789 02-18

X-RAY DIFFRACTION METHOD APPLIED TO DEFORMED METAL AND ALLOY TO REVEAL DISLOCATION STRUCTURE AND PLASTIC PROPERTIES N64-10791 02-18

EFFECTS OF ULTRASONIC TREATMENT ON TEMPERATURE, TENSILE STRENGTH, AND PLASTICITY OF BRASS
FTD-TT-63-898/1&2 N64-12841 04-18

EFFECT OF ULTRASONIC WAVE ON DURABILITY AND PLASTICITY OF BRASS
FTD-TT-63-897/1&2 N64-12851 04-18

PLASTIC WAVE PROPAGATION - DISLOCATION CONCEPTS OF STRAIN RATE EFFECTS N64-13439 05-25

THERMOPLASTIC & THERMOSETTING RESINS FROM PHOSPHONITRILIC CHLORIDE TRIMER
TR-3 N64-14626 06-19

CRITIQUE ON CRYSTAL DISLOCATIONS & PLASTICITY
N64-15015 07-25

PREPARATION OF NEW THERMOPLASTIC, THERMOSETTING POLYMERS FROM PHOSPHONITRILIC CHLORIDE TRIMER
AD-429132 N64-15695 07-07

PLASTICITY & MECHANICAL PROPERTIES OF TITANIUM ALLOYS AS FUNCTIONS OF HOT DEFORMATION
N64-17084 09-18

PLASTIC STABILITY OF SIMPLY SUPPORTED SPHERICAL PLATES UNDER EXTERNAL PRESSURE
NASA-CR-53358 N64-17821 09-33

ELASTIC AND PLASTIC STABILITY OF ORTHOTROPIC SPHERICAL SHELLS
NASA-CR-53354 N64-18297 10-33

AGING AND FREEZING EFFECTS ON PLASTICITY OF CERAMIC PRODUCTS N64-23194 16-19

INCREASE IN MECHANICAL STRENGTH AND PLASTICITY OF CERAMICS BY ADDITION OF ASH, CEMENT, AND GYPSUM
N64-23195 16-19

PLASTIC ZONE IN FRACTURE OF MARAGING STEEL
N64-24356 17-18

TRANSITION FROM PLASTIC TO BRITTLE BEHAVIOR IN THIN TUNGSTEN WIRE
RSIC-188 N64-25222 17-18

RELATION OF DEFLECTION TO PRESSURE FOR CLAMPED CIRCULAR PLATE IN PLASTIC RANGE
WAPD-282 N64-27412 19-33

CYCLIC STRESS-STRAIN BEHAVIOR IN INTERMEDIATE CYCLE FATIGUE RANGE OF COPPER AND 4130 STEEL
ML-TDR-64-120 N64-27460 19-18

VISIOPLASTICITY TECHNIQUES - ROLLING, FLOW FIELD DETERMINATION, AND STRUCTURE OF DEFORMED MATERIALS
PR-1 N64-28148 20-18

EFFECTS OF EXPOSURE TO AIR ON DUCTILITY AND PLASTICITY OF STAINLESS STEEL N64-29039 21-18

PLASTICIZER
SULFUR AS PLASTICIZER FOR DISULFIDE POLYMERS
ONR-TR-RLT-78 N64-21163 14-19

PLASTISOL
HARDENING PROPERTIES OF POLYVINYL CHLORIDE-DIBUTYL PHTHALATE PLASTISOL BY ELECTRICAL RESISTANCE METHOD
NOLTR-63-250 N64-13828 05-19

PLATE
SA CIRCULAR PLATE
SA FLAT PLATE
SA SANDWICH PLATE
SA THIN PLATE
CF DISK
CF PANEL
CF SHEET
BUCKLING OF PLATES TAPERED IN PLANFORM UNDER UNIFORM STRESSES AND LOADS
ARC-R&M-3324 N64-10051 01-02

NORMAL LOAD BENDING OF PLATES TAPERED IN PLANFORM
ARC-R&M-3325 N64-10052 01-03

EVALUATION OF MARAGING STEEL PLATE FOR LAUNCH VEHICLE USE
NASA-CR-52673 N64-11100 02-18

STRESS DISTRIBUTION IN VICINITY OF CRACK IN CENTER OF PLATE MATERIALS
DMIC-MEMO-178 N64-11761 03-33

INITIAL FUNCTIONS METHOD TO DETERMINE SYMMETRICAL, SKEW-SYMMETRICAL, & NONSYMMETRICAL OSCILLATIONS OF RECTANGULAR PLATES
FTD-TT-63-740/162 N64-12848 04-33

CREEP IN LARGE PLATES WITH CONCENTRATED FORCE TAKEN AS LINE LOAD ALONG THICKNESS OF STRAIGHT BOUNDARY
AF-AFOSR-419-63 N64-12922 04-33

HYPERVELOCITY ACCELERATORS - SHAPED CHARGE & TARGET PLATE ACCELERATORS N64-13520 04-23

THIN PLATE PERFORATION STUDIES WITH HYPERVELOCITY PROJECTILES N64-13549 05-23

BIAXIAL TENSILE STRENGTH OF ANISOTROPIC SHEET MATERIALS
AMRA-TR-63-11 N64-14000 05-18

GENERAL LAMINAR FLOW PAST SEMI-INFINITE PLATE
NWL-1887 N64-14343 06-02

STORAGE RING BAFFLE PLATES FOR PARTICLE ACCELERATOR
LNF-63/72 N64-14449 06-23

NONLINEAR ELASTIC BENDING OF PLATE STRIP
GD/A-63-0769 N64-14457 06-33

METAL-TO-METAL BONDING AND BONDING OF COVER PLATES ON HONEYCOMB PLATES TESTED WITH SUPERSONIC-IMPULSE-ECHO APPARATUS
DFL-217 N64-15023 07-17

OPTIMUM METHOD FOR FORMING CLOSED-RIBBED PLATE TO CYLINDRICAL AND SPHERICAL SHAPES FOR MISSILE COMPONENTS
NASA-CR-55749 N64-15868 07-17

ELASTIC STRESS DISTRIBUTION IN THIN, FINITE-WIDTH ORTHOTROPIC PLATES WITH CENTRAL CRACKS - SOLUTION BY USE OF FINITE FOURIER TRANSFORMS
NASA-TN-D-2260 N64-17161 09-33

STABILITY OF SPHERICAL PLATE ELEMENTS IN ELASTIC AND PLASTIC RANGES
NASA-CR-53318 N64-17762 09-33

PLASTIC STABILITY OF SIMPLY SUPPORTED SPHERICAL PLATES UNDER EXTERNAL PRESSURE
NASA-CR-53358 N64-17821 09-33

NONLINEAR BUCKLING OF THIN, ELASTIC, RECTANGULAR PLATES
IMM-NYU-316 N64-18066 10-33

MATRICES FOR MODELS OF DISKS, PLATES, AND SHELLS
AD-434846 N64-18913 11-20

METHODS FOR EVALUATING UNWOVEN GLASS-FIBER REINFORCED PLASTIC LAMINATES IN FLEXURE
N64-19778 12-33

BEHAVIOR OF THREE-DIMENSIONAL TURBULENT BOUNDARY LAYER ON ANNULAR WING AT VARIOUS INCIDENCES
AD-428671 N64-19928 12-20

HEAT TRANSFER FROM HOT SODIUM SPRAY IMPINGING ON VERTICAL PLATE N64-20502 13-13

FABRICATION OF SAPPHIRE QUARTER-WAVE PLATES FOR USE WITH RUBY IN NOVEL LONGITUDINAL MODE SELECTOR - LASER DEVICE
AD-600267 N64-20905 14-23

STRUCTURAL STRENGTH OF GAS TURBINE PLATES UNDER UNSTEADY OPERATING CONDITIONS
FTD-TT-62-1798/1&2&4 N64-22144 15-33

THEORIES OF ANISOTROPIC PLATES AND SHELLS
N64-22808 16-23

REAL GAS FLOW PARAMETERS USING DATA ON IDEAL GAS FLOW AROUND INFINITE PLATE N64-23073 16-11

AERONAUTICAL ENGINEERING - CALCULATING HEAT RADIATION IN NONSTEADY FLIGHT AND IN BENDING CANTILEVER PLATES
FTD-TT-62-1769 N64-23491 16-01

EQUILIBRIUM EQUATIONS FOR STATIC BENDING AND FREE VIBRATION OF IRREGULARLY SHAPED CANTILEVER PLATES
N64-23493 16-33

LAMINAR BOUNDARY LAYER WITH CHEMICAL REACTION FRONT ON POROUS PLATE
N64-23678 16-11

BEHAVIOR OF AERODYNAMICALLY HEATED PLATES AND SHELLS IN SUPERSONIC GAS FLOW
N64-23682 16-11

STRUCTURAL BEHAVIOR OF LAMINATED ANISOTROPIC PLATES - CROSS-PLY & ANGLE-PLY COMPOSITES
NASA-CR-56343 N64-24121 16-33

BENDING OF RECTANGULAR PLATES WITH FINITE DEFLECTION
IMR-NYU-322 N64-24329 17-33

INFLUENCE SURFACES OF ORTHOTROPIC PLATES
N64-26084 18-33

STRESS LEVEL PROPAGATION OF FATIGUE CRACK THROUGH ROTATING CANTILEVER SPECIMEN
ARL/SM-283 N64-26471 18-18

PILE-OF-PLATES POLARIZER FOR VACUUM ULTRAVIOLET
NASA-TM-X-55022 N64-27256 19-15

PERFORATED PLATE TECHNIQUE FOR IMPROVED OPERATION OF HYPERSONIC GUN TUNNEL
CP-6 N64-27349 19-10

RANDOM VIBRATIONS OF NONLINEAR ELASTIC BARS AND PLATES
AFOSR-64-0887 N64-27539 19-33

MATHEMATICAL ANALYSIS OF ELASTIC PLATE VIBRATIONS
N64-28481 20-33

MATHEMATICAL ANALYSIS OF TOROIDAL SHELL AND ANNULAR PLATE COUPLING
N64-28483 20-33

STRESS AND DEFORMATION OF PLATE MOUNTED ON DEFORMED FOUNDATION
N64-28495 20-33

BENDING OF ROUND PLATE AND INFINITE STRIP ON COMBINED BASE
N64-28496 20-33

WELDING HIGH STRENGTH ALUMINUM ALLOYS IN PLATE THICKNESSES SUITABLE FOR APPLICATION AT CRYOGENIC TEMPERATURES
NASA-CR-58616 N64-28846 20-18

TRANSVERSE SHEAR EFFECTS ON TEMPERATURE CALCULATION OF ORTHOTROPIC PLATE
FTD-TT-63-529/1&2&4 N64-29024 21-33

CREEP ANALYSIS OF ANNULAR PLATES
PIBAL-695 N64-30000 21-33

FABRICATION OF PRODUCTION-SIZE ROLL-WELDED CORRUGATED SANDWICH PANELS
N64-30077 21-17

ELASTIC CONSTANTS FOR BENDING AND TWISTING OF CORRUGATION STIFFENED PANELS
NASA-TR-R-166 N64-30104 21-33

COLLISION OF TWO PLATES AT HIGH SPEED - HYPERVELOCITY IMPACT
N64-30362 22-11

SOLUTIONS FOR PROBLEM OF BENDING ORTHOTROPIC ELLIPTICAL PLATES FREELY SUPPORTED ALONG CONTOUR
N64-30420 22-33

ASYMPTOTIC METHOD TO DETERMINE NATURAL FREQUENCIES OF VIBRATION OF CONTINUOUS PLATES
N64-30423 22-33

PLANE STRESS DISTRIBUTION IN VARIABLE THICKNESS PLATES BY ELASTICITY THEORY
N64-30425 22-33

PENETRATION BALLISTICS OF REINFORCED FIBERGLASS PLASTIC PLATES
ARDD-3842-2 N64-30698 22-19

NONLINEAR BENDING VIBRATIONS OF RECTANGULAR AND CIRCULAR PLATES UNDER VARIOUS BOUNDARY CONDITIONS
REPT.-149 N64-31438 23-33

HYDRODYNAMIC FORCE AND SPRAY TESTS ON WING END PLATES PENETRATING WATER SURFACE
GD/C-64-100 N64-32463 23-11

CONTACT HEAT EXCHANGE BETWEEN FLAT METAL PLATES AS FUNCTION OF PRESSURE, SURFACE PROPERTIES, AND HEAT CONDUCTIVITY COEFFICIENT
RSIC-272 N64-33421 24-13

POLISHING MACHINE FOR LAPPING SPOT FACES ON AIR BEARING END PLATE
N64-33611 24-17

PLATFORM
SUPPORTING STRUCTURE OF SPACE-VEHICLE STABILIZED PLATFORM - MINIMIZING WEIGHT OF SUPPORTING GIMBALS
NASA-CR-55263 N64-13402 04-30

ANALYTIC PLATFORMS FOR MISSILE GUIDANCE SYSTEM EVALUATION
RG-TR-63-23 N64-13674 05-22

ANALYSIS & DESIGN OF STABILIZED PLATFORM ALIGNMENT LOOP FOR PERSHING GUIDANCE & CONTROL SYSTEM
RG-TR-63-26 N64-13808 05-22

STABILIZED PLATFORM FOR INERTIAL GUIDANCE SYSTEM TESTING
RG-TR-63-29 N64-13809 05-22

GEOMETRICAL ANALYSIS OF INERTIAL PLATFORM GIMBAL SYSTEM
SMFD-2-2 N64-19857 12-22

ENERGY EQUATIONS FOR CONTROL PROBLEMS IN STABILIZATION OF PLATFORMS
FTD-TT-63-1111/1&2&4 N64-20371 13-20

AIRBORNE INSTRUMENTATION PLATFORM FOR SATELLITE AND SPACECRAFT TRAJECTORIES
ESD-TDR-64-182 N64-22972 16-08

ALIGNMENT OF GYRO-STABILIZED PLATFORM OF HORIZONTAL INERTIAL SYSTEM
N64-24520 17-15

SINGLE-AXIS GYROSCOPIC STABILIZATION SYSTEMS
N64-24547 17-15

AERODYNAMIC CONTROL OF FLYING PLATFORM TYPE HELICOPTER
FTD-MT-63-287 N64-25470 17-03

STRUCTURAL ANALYSIS OF SCOUT LAUNCHER ADAPTER FOR SANTA RITA PLATFORM
N64-26772 18-10

GYROSCOPIC COUPLING FOR PLATFORM STABILIZATION
N64-30230 22-15

GYROSCOPIC COUPLING FOR PLATFORM STABILIZATION
N64-30230 22-15

ANALYTICAL FUNCTION FOR GIMBAL ANGLES OF ROLL STABLE PLATFORM
NOL-TR-75-45 N64-30885 22-15

MOTION CHARACTERISTICS OF STABLE PLATFORM IN SEA WAVES
DTMB-1855 N64-32549 23-10

PLATING
SA ELECTROPLATING
CF COATING
CF FLAME SPRAYING
EMBRITTLEMENT RELIEF TREATMENT FOR CRACK-FREE CHROMIUM-PLATED STEEL
FTDM-3103 N64-11767 03-18

IMPROVING CORROSION RESISTANCE OF CHROMIUM PLATING ON HIGH STRENGTH STEEL
FTDM-2960 N64-12602 04-18

PLATING OF REFRACTORY METAL ON VACUUM ROLLING MILL
FTD-MT-63-98/1&2&3&4 N64-14381 06-17

SUSTAINED LOAD TESTING AND HYDROGEN EMBRITTLEMENT OF CADMIUM PLATED NOTCH TENSILE STEEL

ERR-FW-161 N64-15588 07-18

SOLAR CONCENTRATOR DESIGN STUDY, PLATING AND COATING STUDIES
NASA-CR-55781 N64-16334 08-06

SOLAR CONCENTRATOR DESIGN STUDY, PLATING AND COATING STUDIES
NASA-CR-55782 N64-16335 08-06

DELTA TITANIUM-CADMIUM PLATING FOR HIGH STRENGTH STEELS
A464 N64-17130 09-17

TITANIUM SURFACE STRENGTHENING BY NITRATION, OXIDATION, AND METAL PLATING - TITANIUM PLATING OF STEEL
JPRS-23913 N64-17736 09-18

PRODUCTION ENGINEERING TO MANUFACTURE QUARTZ CRYSTALS FOR CRYSTAL AND ELECTRODE PLATING AND POLISHING
AD-432930 N64-18357 10-09

COMPUTER PROGRAM FOR THERMODYNAMIC ANALYSIS OF CHEMICAL REACTIONS IN TUNGSTEN AND RHENIUM VAPOR PLATING
UCRL-7667 N64-20430 13-20

CHEMICAL REACTION OF NICKEL PLATE ON ALUMINUM ALLOYS IN HIGH AND LOW TEMPERATURES AND AQUEOUS FLOW
HW-81196 N64-20835 14-18

WEIGHT LOSS OF PLATED METALS HEATED IN VACUUM
REPT.-64-233 N64-25326 17-18

SUITABILITY OF MATERIAL FOR DAMPING MECHANICAL VIBRATIONS IN LIGHT STEEL PLATING
REPT.-94-52 N64-26293 18-34

METAL INSULATION, FINISHING, PLATING, AND HERMETIC SEALING PROCESSES IN PRODUCTION OF RADIO AND ALLIED ELECTRONIC EQUIPMENT
OTS-61-31204 N64-26352 18-08

PLATINUM
PERFORMANCE CHARACTERISTICS OF UNCOATED AND PLATINIZED IONIC MEMBRANE FUEL CELLS
NASA-CR-55694 N64-15871 07-06

OXIDATION TESTS OF PLATINUM COATINGS - PREPARATION OF COATING FOR NIOBIUM OR MOLYBDENUM ALLOYS AND OF DIFFUSION BARRIER LAYERS
AD-429754 N64-15935 07-18

THREE-CARBON HYDROCARBONS IN FUEL CELLS WITH ACID ELECTROLYTES USING PLATINUM CATALYZED ELECTRODES
N64-17395 09-06

USE OF STATIONARY AND ROTATING PLATINUM MICROELECTRODES AS VOLUMETRIC ELECTRODES
N64-20421 13-07

OBSERVATIONS BY TRANSMISSION ELECTRON MICROSCOPY ON DISLOCATIONS IN URANIUM AND DISLOCATIONS AND RADIATION DAMAGE IN PLATINUM
EUR-243.E N64-21047 14-18

TIME-TEMPERATURE INTEGRATOR WITH SENSING ELEMENTS OF PALLADIUM AND PLATINUM FOIL LAYERS FOR CHECKING ENGINE DETERIORATION
AD-434147 N64-22000 15-15

TEMPERATURE MEASUREMENT WITH PLATINUM RESISTANCE THERMOMETER
FTD-TT-64-83/164 N64-25461 17-13

OXIDE-FREE PLATINUM ELECTRODES - CATALYTIC ACTIVITY FOR REDUCTION OF OXYGEN ON METAL ELECTRODE
REPT.-9 N64-28597 20-07

EFFECTS OF ANIONS AND CATIONS ON OXYGEN REDUCTION AND EVOLUTION REACTIONS ON PLATINUM ELECTRODES
TR-18 N64-28599 20-07

OXIDATION AND SURFACE ACTIVITY OF PLATINUM MONOCRYSTALLINE SPHERICAL ELECTRODES
FTD-TT-64-156/162 N64-30132 21-25

ELECTROCHEMICAL OXIDATION OF FORMIC ACID ON PLAIN PLATINUM ELECTRODE
SR-5 N64-31281 22-07

FIELD ION MICROSCOPY OF HEAT TREATED TUNGSTEN ALLOYS AND OF POINT DEFECTS IN IRRADIATED PLATINUM WIRE
NASA-CR-58771 N64-32889 24-18

PLATINUM ALLOY
SURFACE AND ISOMERIZATION CHARACTERISTICS OF PLATINUM-SILICON-ALUMINUM N64-28049 20-07

PLATINUM COMPOUND
EMITTANCE OF CALORIMETER DISC SURFACES COATED WITH PLATINUM BLACK UNDER CONTROL TEMPERATURE CYCLING
NASA-CR-55073 N64-12156 03-13

BIBLIOGRAPHY - PREPARATION & PROPERTIES OF PLUTONIUM CARBIDE
MLM-1169 N64-13390 04-19

POROUS FLOW-THROUGH ELECTRODES OF PLATINUM BLACK
REPT.-5 N64-14812 06-06

KINETICS OF REACTION OF TRANS-DICHLORODIAMINE PLATINUM WITH HYDROXIDE
IS-883 N64-30128 21-07

PLOTTER
SIGNAL AMPLITUDE, SENSING & SIGNAL-PRODUCING RESISTORS, AND NOISE EFFECT ON SECOND HARMONIC CURVES OF AUTOMATIC SECOND DERIVATIVE PLOTTER
ASD-TDR-63-471 N64-13995 05-20

AUTOMATIC PLOTTER FOR RECORDING EFFECTIVE RADAR CROSS SECTION MEASUREMENTS N64-24307 17-08

MATHEMATICAL ANALYSIS, ENGINEERING DESIGN, & ERROR EVALUATION OF PLOTTER AND RECTIFICATION SYSTEM FOR OBLIQUE AND PANORAMIC PHOTOGRAPHY - PHOTOGRAMMETRY
RADC-TDR-63-367 N64-26672 18-15

STEREOPLOTTER FOR CONTOUR DETECTION AND TRACING
RADC-TDR-64-154 N64-32022 23-15

PLOTTING
PRINTER PLOTTING SYSTEM CONSISTING OF IBM 7090 & 1401 COMPUTER SUBROUTINES - USERS MANUAL
NASA-TN-D-2174 N64-18728 11-20

PRINTER PLOTTING SYSTEM CONSISTING OF IBM 7090 & 1401 COMPUTER SUBROUTINES - INSTRUCTION MANUAL
NASA-TN-D-2175 N64-18729 11-20

GEOMETRIC METHOD FOR PLOTTING DIVERGENT SHOCK WAVES IN MAGNETOHYDRODYNAMICS
FTD-TT-63-198/1&2&4 N64-19196 11-24

PLOW
AUTOMATIC DRIVING SYSTEM FOR CRAWLER-MOUNTED PLOWING UNIT BY SIMULATION
JPRS-17525 N64-10628 01-20

PLOWSHARE PROGRAM
CRATERING EXPERIMENT OF SCOOTER HIGH EXPLOSIVES IN PLOWSHARE PROGRAM
SC-4602/RR/ N64-11787 03-23

PLUG
THEORETICAL AND EXPERIMENTAL INVESTIGATION OF DESIGN AND PERFORMANCE OF PLUG-TYPE NOZZLES
TCEA-TN-12 N64-16946 09-02

PLUM BROOK REACTOR
FOUR-GROUP NEUTRON DIFFUSION THEORY MODEL FOR PLUM BROOK REACTOR
NASA-TN-D-2210 N64-32838 24-10

PLUME
JET PLUMING EFFECT ON TWO FREE-FLIGHT ROCKET-PROPELLED CONE-CYLINDER-FLARE VEHICLES DETERMINED BY COMPUTER SIMULATION
NASA-TN-D-2018 N64-11552 03-27

ROCKET EXHAUST PLUME RADIATIVE HEAT TRANSFER TO ROCKET BASE

AIAA PAPER-64-60 N64-14150 05-13

BIBLIOGRAPHY - RADIATION PLUME GEOMETRY OF MISSILES
REPT.-8-109-63-6 N64-14492 06-30

COMPUTING ROCKET EXHAUST PLUMES WITH LAMINAR OR TURBULENT MIXING - GAS DYNAMICS
GD/A-63-1381 N64-18009 10-26

CALCULATING AXIAL POSITIONS AND SIZE OF MACH DISKS AND MIXED FLOWS DOWNSTREAM OF DISKS IN UNDER-EXPANDED, INVISCID JETS
GD/A-DBE-64-008 N64-18358 10-02

FIELD SPECTROGRAPH FOR HIGH RESOLUTION SPECTRAL ANALYSIS OF ROCKET EXHAUST PLUMES FOR AEROSPACE VEHICLE DETECTION N64-23009 16-15

PLUTO NUCLEAR RANJET PROGRAM
S NUCLEAR RANJET

PLUTONIUM
URANIUM AND PLUTONIUM REMOVAL AS HEXAFLUORIDES BY FLUID-BED VOLATILITY FLUORINATION PROCESS
ANL-6742 N64-10217 01-19

THEORETICAL ANALYSIS OF PROBLEMS DUE TO PRESENCE OF PLUTONIUM IN HETEROGENEOUS THERMAL REACTOR FUEL ELEMENTS
EUR-470.E N64-13146 04-23

FABRICATION OF PLUTONIUM FUELS FOR POWER REACTORS
DP-838 N64-13317 04-23

MICROMETHOD FOR PHYSIOCHEMICAL INVESTIGATION OF PLUTONIUM & ITS ALLOYS
JPRS-22599 N64-13382 04-18

PLUTONIUM ELECTROREFINING PLANT - OPERATING INSTRUCTIONS, PROCEDURES, AND EQUIPMENT
LA-2981 N64-13588 05-17

MEASUREMENT METHODS FOR PLUTONIUM & URANIUM IN NUCLEAR FUEL CYCLE
TID-7029 N64-13907 05-07

PLUTONIUM CHEMISTRY N64-13949 05-07

RADIOLOGICAL SAFETY CONSIDERATIONS - EVALUATION OF STORAGE, HANDLING, & TRANSPORATATION OF PLUTONIUM-BEARING WEAPONS
SC-4973/RR/ N64-14046 05-16

TRILAURYLAMINE EXTRACTION - SPECTROGRAPHIC DETERMINATION OF TANTALUM IN PLUTONIUM
HW-79738 N64-15835 07-07

THIN PLASTIC COATING FOR METALLOGRAPHIC PLUTONIUM SPECIMENS TO RETARD OXIDATION AND CONTAIN RADIOACTIVE CONTAMINATION
HW-79845 N64-15836 07-23

FRACTURE DEFORMATION OF UNALLOYED ALPHA PLUTONIUM - ELECTRON MICROFRACTOGRAPHY
HW-79846 N64-15837 07-18

X-RAY MICROPHOTOGRAPHY OF ALPHA PLUTONIUM WITH BERG-BARRETT X-RAY CAMERA
UCRL-7651 N64-17075 09-23

HOMOGENIZATION OF GALLIUM-STABILIZED DELTA PHASE PLUTONIUM
LA-2989 N64-17237 09-18

FUEL ELEMENT - PLUTONIUM WITH MIXED OXIDES FOR PLUTONIUM RECYCLE TEST REACTOR
HW-79291 N64-17703 09-19

NEUTRON AND ALPHA SOLID STATE DETECTOR USED AS COUNTER DURING COLUMN SEPARATION OF PLUTONIUM AND VARIOUS HEAVY ELEMENTS
UCRL-11300 N64-17980 10-23

FISSION RESONANCE INTEGRALS OF URANIUM AND PLUTONIUM RADIOACTIVE ISOTOPES
AECL-1910 N64-18461 10-23

ELECTROREFINING PROCESSES FOR RECOVERY OF PLUTONIUM FROM PLUTONIUM-IRON ALLOYS
LA-3029 N64-19026 11-17

REACTOR FUELS & MATERIALS DEVELOPMENT - PLUTONIUM
MLM-1184 N64-20476 13-23

CRITICAL MASSES OF SYSTEMS OF URANIUM OR PLUTONIUM
LAMS-3067 N64-20514 13-23

PLUTONIUM REACTOR FUEL DEVELOPMENT
LAMS-3096 N64-24223 16-23

OPTIMUM CONDITIONS FOR OBTAINING PLUTONIUM TRACER FROM NATURAL URANIUM IN CYCLOTRON
N64-25557 17-07

ION EXCHANGE WITH SLOW PARTICLE DIFFUSION TO STUDY PLUTONIUM BEHAVIOR
LA-3046 N64-28024 20-07

ENERGY AND TIME BETA-RAY SPECTRA FROM FISSION OF URANIUM AND PLUTONIUM N64-28217 20-23

TRACE ANALYSIS OF PLUTONIUM AND URANIUM BY ION EXCHANGE SEPARATION FROM FISSION PRODUCTS AND SOIL
NDL-SR-7 N64-30586 22-07

SPECTROGRAPHIC-PHOTOMETRIC DETERMINATION OF CESIUM IN HIGH PURITY PLUTONIUM METAL - CONTAMINATION PRODUCED BY ELECTROREFINING PROCESS
RFP-420 N64-30756 22-07

QUANTITATIVE EMISSION SPECTROGRAPHIC METHODS FOR DETERMINATION OF IMPURITIES IN PLUTONIUM
NBL-215 N64-32171 23-07

SPECTROPHOTOMETRIC METHOD FOR DETERMINATION OF TRACE AMOUNTS OF COBALT IN TANTALUM AND PLUTONIUM
LA-3124 N64-33468 24-07

PLUTONIUM ALLOY
LAMPRE I REACTOR PROGRAM - PLUTONIUM FUEL ALLOYS
LAMS-2973 N64-10187 01-23

DENSITY DETERMINATION OF THORIUM-URANIUM, THORIUM-PLUTONIUM, CAST THORIUM, & MONOBROMOBENZENE IN GLOVEBOXES
ANL-6671 N64-10394 01-07

PLUTONIUM CERAMIC REACTOR FUELS - PHASE STUDIES & PHYSICAL PROPERTIES OF VARIOUS PLUTONIUM ALLOYS
MILM-1171 N64-12128 03-19

PLUTONIUM-URANIUM-CARBON SYSTEMS AS POSSIBLE FUELS FOR LIQUID-METAL COOLED FAST REACTORS
ANL-6678 N64-12355 03-19

SWELLING OF ALUMINUM-CLAD ALUMINUM-PLUTONIUM ALLOYS ON POSTIRRADIATION ANNEALING
ANL-6651 N64-12697 04-18

MICROMETHOD FOR PHYSIOCHEMICAL INVESTIGATION OF PLUTONIUM & ITS ALLOYS
JPRS-22599 N64-13382 04-18

PROPERTIES OF HIGH PURITY UNALLOYED AND ALLOYED PLUTONIUM N64-14229 06-18

TECHNOLOGY OF DEUTERIUM OXIDE MODERATED POWER REACTOR WITH URANIUM-PLUTONIUM OR THORIUM-URANIUM FUEL CELL
DP-864 N64-15771 07-23

SOLID PLUTONIUM COMPOUNDS & ALLOYS FOR FUEL
LAMS-3054 N64-17755 09-18

ELECTROREFINING PROCESSES FOR RECOVERY OF PLUTONIUM FROM PLUTONIUM-IRON ALLOYS
LA-3029 N64-19026 11-17

PHASE DIAGRAM OF URANIUM-PLUTONIUM AT TEMPERATURES BELOW 635-DEG C WITH LESS THAN 50 ATOMIC PERCENT CARBON
ANL-6435 N64-28110 20-18

DETERMINATION OF SILICON IN PLUTONIUM METAL, SILICIDE, AND ALLOYS BY PERCHLORIC ACID DEHYDRATION
LA-3134 N64-33066 24-07

PLUTONIUM COMPOUND
POINT-COUNT ANALYSIS OF IRON- AND COPPER-PLUTONIUM COMPOUNDS
RFP-331 N64-13300 04-18

POWDER PREPARATION OF SOLID PLUTONIUM COMPOUNDS FOR SOLID FUEL SYSTEMS
LANS-3023 N64-13589 05-18

SOLID PLUTONIUM COMPOUNDS & ALLOYS FOR FUEL
LANS-3054 N64-17755 09-18

SYNTHESIS, FABRICATION, AND CHEMICAL REACTIONS OF PLUTONIUM MONONITRIDE
BMI-1693 N64-31271 22-07

TRANSPORT OF PLUTONIUM TETRACHLORIDE VAPOR IN CHLORINE GAS DURING REACTION OF URANIUM AND PLUTONIUM OXIDES WITH CARBON TETRACHLORIDE
ORNL-3693 N64-32415 23-07

PLUTONIUM-239
ANGULAR DISTRIBUTION OF GAMMA RAY EMISSION IN SLOW NEUTRON FISSION OF URANIUM-235 AND PLUTONIUM-239
KFKI-16/1963 N64-15988 07-23

RADIOLOGY - EFFECTS OF PLUTONIUM-239 ON METABOLIC FUNCTIONS OF MAMMALS
FTD-TT-63-559/1&2 N64-16377 08-16

CRITICAL DIMENSIONS OF SYSTEMS CONTAINING URANIUM 235 & 233 AND PLUTONIUM 239
TID-7028 N64-25117 17-23

PLUTONIUM 241
DOPPLER DISTORTION OF TOTAL, FISSION, CAPTURE, AND SCATTERING NEUTRON CROSS SECTIONS OF PLUTONIUM 241
IDO-16954 N64-16941 09-23

PNEUMATIC EQUIPMENT
PNEUMATIC TIRE HYDROPLANING
NASA-TN-D-2056 N64-10521 01-04

DEFORMATION AND STRESS ANALYSIS FOR PNEUMATIC AIRCRAFT TIRE USING COMPUTER PROGRAM
NASA-CR-55174 N64-13192 04-17

COST ESTIMATE, LAUNCH COMPLEX 39 PNEUMATIC SYSTEM
NASA-TM-X-54645 N64-16706 08-10

PNEUMATIC JET RELAY SYSTEM FOR PROPULSION SYSTEM CONTROL
DSR-9159-1 N64-16853 08-27

DYNAMICS OF PNEUMATIC PRESSURE REGULATOR COUPLED WITH LONGITUDINAL OSCILLATIONS OF ATLAS-AGENA LAUNCH VEHICLE
GDA63-0712 N64-20320 13-30

EXPANDABLE STRUCTURE TECHNOLOGY APPLIED TO SEALING CONCEPTS AND SELF-REGULATING PNEUMATIC SYSTEMS N64-23727 16-34

PNEUMATIC BISTABLE FLUID AMPLIFIER - DESIGN ANALYSIS N64-23820 16-11

MULTIPLE-BALL PNEUMATIC FLUID AMPLIFIER N64-23822 16-11

LOW PASS FILTERS FOR PNEUMATIC AMPLIFIERS WITH POSSIBLE APPLICATIONS TO PURE FLUID AMPLIFIERS N64-25267 17-11

EFFECT OF AUDIOFREQUENCY ACOUSTIC WAVES ON PNEUMATIC DIGITAL AMPLIFIERS N64-25268 17-15

PNEUMATICS
PNEUMATIC AUTOMATION AND JET TECHNOLOGY
JPRS-24036 N64-17841 09-06

TECHNIQUE FOR DESCRIBING DROPLET-SIZE DISTRIBUTION PRODUCED BY PNEUMATIC ATOMIZATION
REPT.-0395-04/15/SP N64-21904 15-23

POHLHAUSEN SOLUTION
S LAMINAR BOUNDARY LAYER
S VELOCITY DISTRIBUTION
S VISCOUS FLOW

POINT
S MELTING POINT
S STAGNATION POINT
S TRANSITION POINT

POINT DEFECT
POINT DEFECT CONFIGURATIONS IN IRRADIATED IRON-CARBON ALLOYS
A64-2 N64-27698 19-18

FIELD ION MICROSCOPY OF HEAT TREATED TUNGSTEN ALLOYS AND OF POINT DEFECTS IN IRRADIATED PLATINUM WIRE
NASA-CR-58771 N64-32889 24-18

POINT IMPACT
MOTION OF GAS UNDER INFLUENCE OF POINT-IMPACT SHOCK ON ITS SURFACE
GA-TR-5081 N64-27145 19-11

POISEUILLE FLOW
NUMERICAL INTEGRATION OF EQUATIONS OF MOTION FOR POINT PERTURBATIONS IN LAMINAR PLANE POISEUILLE FLOW
AMRA-TR-63-10 N64-13999 05-11

COMPARISON OF STABILITY OF POISEUILLE FLOW AND BLASIUS PROFILE FOR FLEXIBLE WALLS
DI-82-0264 N64-15299 07-11

FLUID DYNAMIC FORCES OF LIFT & DRAG ON SPHERES SUSPENDED IN POISEUILLE FLOW - SQUID PROJECT
PR-106-P N64-19636 12-11

NUMERICAL METHOD FOR CALCULATION OF EIGENVALUES IN PROBLEM OF PLANE POISEUILLE FLOW STABILITY
NASA-TN-D-2414 N64-26630 18-11

POISON
BORON CARBIDE AND SILICON CARBIDE POISONS AND METAL-CLAD ELEMENTS FOR REACTOR CONTROL
WAPD-244 N64-16693 08-23

DISTRIBUTION OF RADIOACTIVE CALCIUM AND ITS EXCRETION FROM HEALTHY AND LEAD-POISONED ANIMALS
JPRS-26888 N64-33854 24-14

POISONING
LACK OF PREDICTABILITY IN RATS TO EXHIBIT CHRONIC OXYGEN POISONING
NADC-MA-6324 N64-15363 07-14

CONTROL FEMALE ALBINO RATS POISONED BY NIOBIUM INJECTION TO MEASURE RENAL FUNCTION BY DILUTION TEST
UR-646 N64-19865 12-14

COMPILATION OF ARTICLES ON MEDICINE - RADIATION SICKNESS, URANIUM POISONING, PROTEIN STABILITY IN BLOOD, RADIOSENSITIVITY, AND RADIATION THERAPY
JPRS-26216 N64-30241 22-14

UNITHIOL EFFECT UPON CASES OF ACUTE URANIUM POISONING N64-30245 22-14

CHROMIUM COMPOUND POISONING
JPRS-26768 N64-31267 22-14

WATER INTOXICATION DUE TO GASTRIC LAVAGE IN CASES OF SUSPECTED ANILINE POISONING
NASA-TT-F-9056 N64-31445 23-14

BERYLLIUM AND ITS RELATION TO INDUSTRIAL SAFETY
JPRS-27031 N64-33058 24-14

POISSON DISTRIBUTION
DISTRIBUTION OF PULSE DURATION IN POISSON AND ATMOSPHERIC NOISE N64-27183 19-12

POISSON EQUATION
DIRECT SOLUTION OF POISSON EQUATION USING FOURIER ANALYSIS
TR-C56 N64-23217 16-20

POISSON AND DIFFERENTIAL EQUATIONS FOR HIGH ORDER PERTURBATION THEORY USING RECTANGULAR COORDINATES
JPL-TR-32-470 N64-31554 23-20

POISSON PROCESS
CF MATHEMATICAL MODEL
PRIORITY QUEUE ACCORDING TO POISSON PROCESS
CU-38-63-NONR-266/33/MS N64-14833 06-20

NUMERICAL INTEGRATION METHOD FOR ANALYZING GEOMAGNETIC FIELD FOR 1955 USING POISSON INTEGRAL
N64-16285 08-12

POISSON RATIO
S RIGIDITY

POLAR CAP
YAGI ANTENNA EXPERIMENT OF POLAR CAP AND AURORAL ZONE ABSORPTION N64-12422 04-12

OCCURRENCE OF POLAR CAP ABSORPTION EVENTS
N64-15428 07-28

RADIO PROPAGATION CONDITIONS DURING INTENSE POLAR CAP ABSORPTION EVENTS N64-15430 07-12

POLAR CAP ABSORPTION CAUSED BY INCREASE IN IONIZATION OF LOWER IONOSPHERE N64-20771 14-12

INVESTIGATIONS OF MARS - ATMOSPHERE, SURFACE PROPERTY, AND POLAR CAPS
T-R-424 N64-29375 21-05

POLAR ORBIT
EFFECTS OF TESSERAL HARMONICS OF EARTH GRAVITY POTENTIAL ON CIRCULAR POLAR AND EQUATORIAL SATELLITE ORBITS
SSD-TDR-63-284 N64-15593 07-29

THOR DELTA LAUNCH VEHICLE PAYLOAD CAPABILITY FOR POLAR, CIRCULAR, AND ELLIPTICAL ORBITS
NASA-CR-56312 N64-24055 16-30

METEOROLOGICAL SATELLITE COVERAGE OF REGIONS OF LOW ILLUMINATION FROM POLAR AND SUN-SYNCHRONOUS ORBITS
MSL-30 N64-27766 19-29

POLAR REGION
ACOUSTIC HEATING OF POLAR NIGHT MESOSPHERE
NASA-TN-D-1912 N64-10398 01-12

IONOSPHERIC ABSORPTION AND SIGNAL DETECTION OF CISPOLAR AND TRANSPOLAR PROPAGATION PATHS
N64-12424 04-12

THEORIES OF POLAR MAGNETIC DISTURBANCES
FTD-MT-63-48/1626364 N64-14828 06-12

RADIO TELESCOPE OBSERVATION OF SOLAR CORONA, AND TRACKING STARS OF POLAR REGION N64-15268 07-05

PROPER MOTIONS OF STARS OF POLAR REGION USED IN POLAR TUBE OF TOKYO ASTRONOMICAL OBSERVATORY - STAR TRACKING N64-15270 07-05

CLIMATE, ATMOSPHERIC STRUCTURE, AND CIRCULATION OF POLAR REGIONS N64-16148 08-21

EDGE OF POLAR PLATEAU FOR GALACTIC COSMIC RAYS AND THEIR CHARGED ALBEDO
NASA-TN-D-2248 N64-17828 09-28

EXTRATERRESTRIAL LOW ENERGY PROTONS OVER GEOMAGNETIC POLAR REGIONS
NASA-CR-53180 N64-18480 10-12

STARTING TECHNIQUES FOR INTERNAL COMBUSTION ENGINES ON TRANSPORTATION AND CONSTRUCTION EQUIPMENT IN POLAR REGIONS
Y-F015-11-01-291 N64-27072 19-06

POLAR HIGH FREQUENCY RADIO PROPAGATION
RR-64-16-46 N64-29832 21-08

POLARIMETER
AUTOMATIC ELECTRON POLARIMETER AND OTHER DEVICES
N64-13687 05-15

NEAR INFRARED POLARIMETER OBSERVATIONS OF PLANETS BY RADIO TELESCOPE
AFCRL-64-693 N64-32477 23-05

INTERFERENCE POLARIMETER MEASUREMENTS OF POSSIBLE DISPLACEMENT OF JUPITER MAGNETIC DIPOLE
AD-444166 N64-33458 24-05

POLARIMETRY
POLARIMETRIC AND COLORIMETRIC STAR, COMET, AND GALAXY OBSERVATIONS OF THE BYURAKAN OBSERVATORY
N64-10026 01-05

POLARIMETRIC INVESTIGATION OF COMETARY NEBULA NGC 2261 N64-10030 01-05

POLARIMETRIC OBSERVATION OF THE STAR BETA CORONA BOREALIS N64-10032 01-05

POLAROGRAPHIC REDUCTION POTENTIALS OF POLYNUCLEAR AROMATIC HYDROCARBONS
WADD-TR-61-72, VOL. 28 N64-15071 07-07

POLARIMETRIC DETECTION OF OPTICALLY ACTIVE MATERIAL IN SOILS FOR REMOTE DETERMINATION OF EXTRATERRESTRIAL LIFE
NASA-CR-55657 N64-15387 07-23

DETERMINATION OF ATMOSPHERIC TURBIDITY IN VARIOUS DIRECTIONS BY POLARIMETRY
FTD-TT-63-536/1&2&4 N64-16376 08-21

ELECTROPHOTOMETRIC, PHOTOGRAPHIC, AND POLARIMETRIC OBSERVATIONS OF MARS SURFACE AND ATMOSPHERE
T-R-427 N64-28868 20-05

SURFACE BRIGHTNESS AND ORIENTATION OF PLANE OF POLARIZATION OF ZODIACAL LIGHT DERIVED FROM PHOTOELECTRIC POLARIMETER
NASA-CR-58496 N64-29199 21-12

POLARIS A1 MISSILE
ENVIRONMENTAL TEST PROGRAM FOR FIRST AND SECOND STAGE POLARIS A1 MOTORS
SRP-314 N64-10610 01-30

POLARIS A3 MISSILE
GLASS FILAMENT WOUND STRUCTURES AND COMPOSITE MATERIALS IN POLARIS MODEL A3 CHAMBERS
REPT.-3888-31M-5, ADDEND. N64-25330 17-27

POLARIS MISSILE
FILAMENT WOUND PRESSURE VESSEL STRUCTURAL PERFORMANCE AND RELIABILITY - POLARIS PROGRAM
REPT.-0627-1-3 N64-12334 03-33

HYDROSTATIC TESTING OF STRUCTURAL STABILITY OF FILAMENT WOUND SPHERICAL CHAMBERS - POLARIS MISSILE PROJECT
AD-424062 N64-12339 03-33

FILAMENT WOUND BOTTLES AND POLARIS MOTOR CASES - TESTING FOR FLAW EFFECTS, WINDING SEQUENCE EFFECT, AND REPAIR TECHNIQUE RELIABILITY
GER-11154/53 N64-13307 04-34

C-BAND TELEMETRY SYSTEM FOR POLARIS MISSILE RANGE MEASUREMENT N64-16155 08-08

EPOXY RESINS FOR FILAMENT WOUND MOTOR CASES OF POLARIS MISSILE N64-21991 15-19

X-RAY AND REFLECTANCE REFRACTOMETER AND OTHER INSTRUMENTS USED IN PROPELLANT PROCESSING FOR POLARIS PROPULSION SYSTEM
REPT.-0178-07R-10 N64-26642 18-26

POLARISCOPE
NORMAL-INCIDENCE REFLECTIVE POLARISCOPE FOR VISCOELASTICITY MEASUREMENTS
NASA-CR-56516 N64-25688 17-15

DUAL-BEAM POLARISCOPE FOR OBTAINING PHOTOELASTIC STRESS PATTERNS FOR USE WITH HIGH-SPEED FRAMING CAMERA
A-64-14 N64-31659 23-15

POLARIZABILITY
CONDUCTIVITY & POLARIZABILITY OF URANIUM AND URANIUM CARBIDE AT OPTICAL FREQUENCIES
EUR-463.E N64-12917 04-23

ELECTRONIC POLARIZABILITY CHANGES OF EXCITED

ELECTRONS IN PHOTOSYNTHETIC AND MODEL SYSTEMS
N64-19465 12-16

EFFECTIVE ELECTRIC POLARIZABILITIES OF METASTABLE ARGON IN SELECTED MAGNETIC SUBSTATES
AD-424089 N64-33840 24-23

POLARIZATION
SA ELECTRET
SA FERROMAGNETISM
SA PYROELECTRICITY
IONOSPHERIC PARAMATERS FROM PHASE DIFFERENCE AND ROTATION OF POLARIZATION PLANE OF COHERENT SIGNALS FROM COSMOS I & COSMOS II SATELLITES
N64-10277 01-12

IONOSPHERE ELECTRON DENSITY FROM PHASE SHIFT AND ROTATION OF PLANE OF POLARIZATION OF COHERENT SIGNALS TRANSMITTED FROM SATELLITES
N64-10278 01-12

PHASE SHIFT VALUES FROM POLARIZATION AND ELASTIC SCATTERING DATA ANALYSIS N64-10303 01-23

DEPENDENCE OF DIELECTRIC CONSTANT & POLARIZATION OF TWO-COMPONENT ORGANIC LIQUID ON MOLECULAR INTERACTION
JPRS-17841 N64-10725 02-23

POLARIZATION DISTRIBUTION OF LIGHT IN SKY DUE TO SECONDARY SCATTERING DURING TOTAL SOLAR ECLIPSE
AD-410175 N64-12281 03-05

EFFECTIVE ELECTRIC POLARIZABILITIES OF METASTABLE ARGON IN SELECTED MAGNETIC SUBSTATES
AD-424934 N64-12831 04-23

POLARIZED PHOSPHORESCENCE AND CORRELATION BETWEEN DICHROISM OF PHOSPHORESCENCE AND ABSORPTION
E-T-F-C-63-1 N64-13126 04-25

LINEAR POLARIZATION MEASUREMENTS OF DECIMETER WAVELENGTH RADIATION FROM SMALL DIAMETER RADIO SOURCES N64-14128 05-08

TYPES OF MINERALS FAVORABLE TO INDUCED POLARIZATION SURVEYS, AND THEIR ELECTRIC CONDUCTIVITY & POLARIZATION PROPERTIES
N64-15416 07-12

POLARIZATION SYSTEMS ANALYSIS
RADC-TDR-63-396, VOL. 2 N64-15818 07-08

MODEL FUEL CELL WHICH ENABLES INDIVIDUAL ELECTRODE POLARIZATION MEASUREMENT & TOTAL CELL POLARIZATION
NASA-CR-55642 N64-15898 07-06

CHARGE RETENTION TEST, POLARIZATION STUDIES, AND FABRICATION OF REGENERATIVE FUEL CELL
NASA-CR-55639 N64-15899 07-06

CIRCULAR POLARIZER DESIGN CURVE
REPT.-61G-1 N64-16821 08-09

POLARIZATION OF SILVER NUCLEI IN FERROMAGNETIC IRON AND NICKEL METALS
UCRL-11143 N64-17293 09-23

TESTING ORGANIC COMPOUNDS FOR DEPOLARIZER ACTIVITY
N64-17426 09-06

POLARIZATION COUPLING CURVES OF ANTENNAS WITH FIXED INCIDENT WAVES
EDL-M593 N64-18184 10-09

POLARIZATION AND SCATTERING EFFECTS ON ATMOSPHERIC OPTICAL RADIATION TRANSMISSION
AFCRL-64-126 N64-18585 11-23

DYNAMIC NUCLEAR POLARIZATION OF LIQUIDS IN HIGH MAGNETIC FIELDS
EUR-493.E N64-19042 11-23

POLARIZATION OF RADIO ECHOES FROM HIGH GRADIENT SPORADIC REGION IN E-LAYER N64-19684 12-12

EFFECT OF IONOSPHERE ON POLARIZATION OF VERY LOW AND EXTREMELY LOW FREQUENCY RADIO WAVES
N64-19701 12-12

FORMULAS FOR TRANSMITTED COMPONENT OF PILE-OF-PLATES POLARIZER IN TERMS OF ANGLE OF INCIDENCE, INDEX OF REFRACTION, & NUMBER OF PLATES
NASA-CR-55526 N64-20735 13-29

HYDROGEN EMBRITTLEMENT OF ALPHA-TITANIUM ALLOYS DURING CATHODE POLARIZATION N64-20916 14-18

PRODUCTION OF POLARIZED NEUTRON BEAM AT REACTOR ISPRA I BY REFLECTION OF SLOW NEUTRONS ON MAGNETIZED MIRROR
EUR-538.E N64-21208 14-23

ANGULAR DISTRIBUTION AND POLARIZATION MEASUREMENTS OF HYPERON REACTION USING PHENOMENOLOGICAL MODEL
N64-21344 14-23

THERMODYNAMIC & STATISTICAL APPROACH TO NUCLEAR DYNAMIC POLARIZATION
LNF-63/15 N64-21771 15-23

FREQUENCY AND TEMPERATURE RESPONSE OF POLARIZATION OF THIN SINGLE CRYSTAL BARIUM TITANATE
TR-188 N64-22005 15-23

AUTOMATIC PROPAGATION COMPUTATION ROUTINE FOR HORIZONTALLY AND VERTICALLY POLARIZED TROPOSPHERIC WAVE TRANSMISSION N64-22837 16-09

POLARIZATION CHARACTERISTICS OF TRANSMITTED SIGNALS FOR NOISE SUPPRESSION IN COMMUNICATION LINK
RADC-TDR-64-128, VOL. II N64-24192 16-23

FOUR POLARIZATION METHOD FOR MEASURING RADAR CROSS SECTION OF AXISYMMETRIC TARGET
N64-24289 17-08

CIRCULAR POLARIZATION OF RADAR TRANSMISSIONS IN GROUND PLANE CROSS SECTION RANGE
N64-24301 17-08

POLARIZATION DIVERSITY AND RADAR REFLECTION PROPERTY MEASUREMENTS N64-24309 17-08

SURFACE POTENTIALS AND INDUCED POLARIZATION IN NONPOLAR LIQUIDS ADSORBED ON METALS
NRL-6068 N64-24345 17-07

ANECHOIC CHAMBER FOR MEASUREMENT OF BACKSCATTER AMPLITUDE AND PHASE AT MULTIPLE POLARIZATION
N64-24752 17-08

POLARIZATION OF RADIATION FROM NEBULA
N64-24783 17-28

VENUS RADAR REFLECTION OF BEAM WITH CIRCULAR POLARIZATION - DEPOLARIZATION OF ECHO
NASA-CR-56656 N64-25682 17-29

POLARIZATION CONTROL SYSTEM DESIGNED FOR L-BAND RADAR - SOLAR RADAR OBSERVATIONS
ESD-TDR-64-331 N64-25726 17-09

FREQUENCY DEPENDENCE OF POLARIZATION OF LIGHT FROM MARS AND MOON
AFCRL-64-442 N64-25760 17-29

SHORT AND LONG WAVELENGTH DISTURBANCES OF TWO-COMPONENT COLLISIONLESS PLASMA POLARIZED PARALLEL TO MAGNETIC FIELD
AGN-115 N64-25813 17-24

REFLECTION TYPE POLARIZER FOR USE ON WEST FORD CASSEGRAINIAN ANTENNAS
ESD-TDR-63-666 N64-25953 18-09

POLARIZATION THEORY FOR POROUS DIFFUSION ELECTRODE SYSTEM - KINETICS OF REDOX REACTION
AFCRL-64-536 N64-26307 18-07

OBSERVATION DATA ON SKY LIGHT POLARIZATION AT ZENITH OBTAINED AT VARIOUS MOMENTS OF TWILIGHT
NASA-TT-F-8922 N64-26608 18-12

POLARIZATION OF NEUTRONS FROM CARBON AND NITROGEN CHEMICAL REACTION
UCRL-7676 N64-27043 19-23

PILE-OF-PLATES POLARIZER FOR VACUUM ULTRAVIOLET
NASA-TM-X-55022 N64-27256 19-15

NARROW AND WIDEBAND PHOTOMETRY POLARIZATION OBSERVATIONS OF AIRGLOW AND ZODIACAL LIGHT
NASA-CR-56881 N64-27274 19-12

INTENSITY AND POLARIZATION OF FORBIDDEN BANDS OF SOLAR CORONA SPECTRUM
NASA-TT-F-8930 N64-27363 19-28

RADIATION ANALYZER TO MEASURE POLARIZATION AND ELLIPTICITY OF ZODIACAL LIGHT FROM ORBITING SOLAR OBSERVATORY /OSO/
NASA-CR-56313 N64-27397 19-15

POLARIZATION PROGRAMMING IN TROPOSPHERIC SCATTER PROPAGATION COMMUNICATION SYSTEM
RADC-TDR-64-258, VOL. II N64-27427 19-08

MECHANISMS OF INTERSTELLAR POLARIZATION
N64-28391 20-05

CIRCULAR POLARIZATION OBSERVATIONS OF STELLAR MAGNETIC FIELD
N64-28392 20-05

CHROMATIC POLARIZATION PRODUCED BY COMPRESSED GLASS - BIREFRINGENT PROPERTIES OF CRYSTALS
RSIC-231 N64-28529 20-23

ZEEMAN EFFECT AND RUBY LASER POLARIZATION
NASA-CR-58358 N64-28754 20-25

DRY TAPE BATTERY - ORGANIC NITRO COMPOUND DEPOLARIZERS, ELECTROLYTE ENCAPSULATION, & TAPE MANUFACTURING METHODS
NASA-CR-54165 N64-29417 21-06

SIMPLIFIED VARIABLE POLARIZATION ANTENNA
USAEL-TR-2423 N64-29829 21-08

EXPRESSION FOR CALCULATING IONOSPHERIC REFLECTION COEFFICIENT FOR WAVE HORIZONTALLY POLARIZED BEFORE AND AFTER REFLECTION
NEL-1221 N64-29859 21-08

CARBON PRODUCTION FOR ORGANIC DEPOLARIZER PRIMARY CELL BATTERIES
REPT.-3 N64-30579 22-19

POLARIZATION EFFECT ON RADIO SIGNALS SCATTERED BY METEOR TRAILS
NASA-TT-F-8962 N64-30855 22-05

FARADAY ROTATION OF COSMIC RADIO WAVE POLARIZATION PLANE - SOLAR SYSTEM CORONA OF IONIZED GAS
NASA-TT-F-8965 N64-30858 22-28

MATRIX ELEMENTS FOR POLARIZED FERMION SCATTERING
ARL-64-162 N64-30949 22-23

POLARIZATION OF PROTONS FROM NUCLEAR REACTION BORON-10 /HELIUM 3, PROTON/ CARBON 12
NOLTR-64-113 N64-31102 22-23

DAMPING AND POLARIZATION OF PLANE MAGNETOHYDRODYNAMIC WAVES
ARL-63-195 N64-31272 22-24

QUALITATIVE AND QUANTITATIVE ANALYSIS OF EXPERIMENTAL MECHANISM FOR SHOCK POLARIZATION OF NONPIEZOELECTRIC DIELECTRICS
NOLTR-64-121 N64-31674 23-25

POLARIZATION TESTS OF LITHIUM-NICKEL FLUORIDE CATHODE
QTPR-3 N64-31929 23-06

RAT SCAT - GROUND PLANE RADAR CROSS SECTION RANGE FOR MEASURING ARBITRARY TARGETS WITH CIRCULAR POLARIZATION AND MEASURING LINEAR SCATTERING MATRICES
FZE-222-2 N64-31949 23-10

VELOCITY MEASUREMENT OF FLOWING PLASMA BASED ON INDUCED POLARIZATION VOLTAGE WHEN PLASMA FLOW IS TRANVERSE TO APPLIED MAGNETIC FIELD
RR-TR-64-7 N64-32032 23-24

SOURCE OF POLARIZED ELECTRONS FOR HIGH ENERGY ACCELERATOR AND PRECISION MEASUREMENT OF THE TRIATOMIC HELIUM NUCLEAR MAGNETIC MOMENT
N64-32248 23-23

MEASUREMENTS OF POLARIZATION VOLTAGE LOSSES AND DESIGN OF CEROLYTE FUEL CELL BATTERY
QTPR-2 N64-33526 24-06

CATALOG OF LINEAR POLARIZATION CHARACTERISTICS OF RADIO SOURCES IN WAVELENGTH RANGE 10 TO 21 CM
AD-444165 N64-33644 24-08

CROSS-POLARIZED ELECTROMAGNETIC BACKSCATTER USING SECOND BORN APPROXIMATION
DAMP-TM-64-01 N64-33717 24-24

THEORETICAL CALCULATION FOR POLARIZING FIELD IN MONATOMIC CUBIC CRYSTAL LATTICE
N64-33834 24-25

AUTOMATIC MEASURING-RECORDING INSTRUMENT FOR ANODE AND CATHODE POLARIZATION
AFCRL-64-518 N64-33933 24-15

POLARIZED RADIATION
DETERMINATION OF CHARACTER OF HIGHER RESONANCES IN PION-PHOTOPRODUCTION AND PROTON COMPTON EFFECT BY USING POLARIZED GAMMA RAYS
LNF-63/66 N64-13176 04-23

POLARIZED CRYSTAL SPECTRA OF TRANSITION METAL COMPLEXES
AD-424181 N64-13616 05-23

POSITRON DEPOLARIZATION MECHANISMS EFFECT OF ELECTRON COLLISIONS AND MULTIPLE SCATTERING ON NUCLEI
N64-16264 08-23

CORRELATION BETWEEN JUPITER AND SOLAR RADIO EMISSIONS FROM OBSERVATIONS OF POLARIZED RADIATION
NASA-CR-53301 N64-17793 09-05

POLARIZATION OF 16-MC/S RADIATION FROM JUPITER
N64-18335 10-05

POLARIZATION OF RADIO EMISSION FROM JUPITER - VARIATIONS ATTRIBUTED TO JOVIAN IONOSPHERIC DISTURBANCES CAUSED BY SOLAR ACTIVITY
NASA-CR-53538 N64-20734 13-29

GEOMETRIC STUDY OF COHERENCE PROPERTIES OF PARTIALLY POLARIZED ELECTROMAGNETIC RADIATION
AFCRL-64-460 N64-27436 19-23

POLARIZATION OF RADIATION BY INTERSTELLAR MEDIUM
N64-28390 20-28

USING POLARIZED THERMAL NEUTRONS AND PARITY NONCONSERVATION OF BETA DECAY TO DETERMINE SPIN LEVELS OF COMPOUND NUCLEUS
N64-29056 21-23

PHOTODISINTEGRATION OF DEUTERON BY POLARIZED PHOTON BEAM
HEPL-329 N64-32058 23-23

POLAROGRAPHY
POLAROGRAPHIC METHOD OF DETERMINING IRON IN ALUMINATE SOLUTIONS
AMC-TRANS-1-63 N64-11913 03-07

POLAROGRAPHIC DETERMINATION OF IRON IN ORES & SLAG
RSIC-15 N64-12265 03-18

OXYGEN DISSOCIATION CURVE DETERMINATION - POLAROGRAPHIC MEASUREMENTS OF OXYGEN TENSION
N64-17938 10-16

POLAROGRAPHIC STUDY OF OXIDATION INHIBITORS - NITRODIPHENYLAMINES AND NITRORESORCINOLS
RK-TR-63-26 N64-18191 10-07

POLAROGRAPHIC STUDY OF BOROHYDRIDES OF LITHIUM, SODIUM, POTASSIUM, AND CESIUM
N64-23664 16-07

POLAROGRAPHIC METHOD OF DETERMINATION OF OXYGEN TENSION IN BRAIN TISSUES DURING HIGH ALTITUDE FLIGHT
N64-27634 19-16

POLAROGRAPHIC DETERMINATION OF OXYGEN CONTENT AND CAPACITY IN SINGLE BLOOD SAMPLE
SAM-TDR-64-39 N64-29287 21-16

POLAROGRAPH FOR AUTOMATIC CURVE PLOTTING
FTD-TT-63-693/1 N64-30131 21-15

BLOOD POLAROGRAPHY FOR USE IN BIOLOGICAL AND MEDICAL STUDIES
JPRS-27237 N64-33675 24-16

POLE
EVALUATION OF POLE CONTRIBUTIONS TO ELECTROMAGNETIC FIELD USING SADDLE POINT TECHNIQUE
AFCRL-63-565 N64-14305 06-23

OPTIMIZATION OF POLE SENSITIVITY IN ACTIVE RC NETWORK
EE-569 N64-21525 15-09

POLIOMYELITIS
BIOCHEMICAL CHANGES RESULTING FROM IRRADIATION, HIGH TEMPERATURE, BURNS, & POLIOMYELITIS - MINERAL & PROTEIN METABOLISM, & IMMUNOLOGICAL DATA
JPRS-20298 N64-11224 02-16

POLISHED METAL
TOTAL NORMAL AND HEMISPHERICAL EMITTANCE OF POLISHED METALS
WADD-TR-61-94, PT. III N64-25636 17-18

POLISHING
CHEMICAL & ELECTROLYTIC POLISHES & DISLOCATION ETCHES FOR SEMICONDUCTORS
NOLTR-63-156 N64-11174 02-07

MECHANICAL POLISHING TECHNIQUE FOR SEMICONDUCTOR WAFERS
TR-1180 N64-12323 03-17

MECHANISMS FOR BURNISHING OF AERODYNAMIC SURFACES
JPRS-24052 N64-17834 09-17

PRODUCTION ENGINEERING TO MANUFACTURE QUARTZ CRYSTALS FOR CRYSTAL AND ELECTRODE PLATING AND POLISHING
AD-432930 N64-18357 10-09

VACUUM DEPOSITION OF ALUMINUM AND POLISHING MACHINE FOR QUARTZ CRYSTAL RESONATOR FABRICATION
REPT.-2 N64-28151 20-17

HARD ANODIZED ALUMINUM LAPS FOR PREPARATION OF HIGHLY POLISHED SURFACES N64-33610 24-17

POLISHING MACHINE FOR LAPPING SPOT FACES ON AIR BEARING END PLATE N64-33611 24-17

POLLUTION
DETERMINING POLLUTION OF SURFACE WATERS BY EGGS OF ECHINOCOCCUS
AAL-TDR-63-37 N64-32102 23-16

POLONIUM
NOMOGRAMS FOR DETERMINING PERMISSIBLE DOSAGE OF FAST NEUTRONS FROM POLONIUM AND BERYLLIUM SOURCES
ELECTROMAGNETIC PROPAGATION WITH ACOUSTIC VIBRATIONS IN MAGNETOSPHERE
FTD-TT-63-862/1&2 N64-12618 04-23

PROCESSING AND PROPERTIES OF POLONIUM-208
MLM-914 N64-15294 07-23

PROTECTION AGAINST RADIATION HAZARDS IN WORKING WITH POLONIUM
JPRS-23499 N64-15992 07-16

ISOTOPE SEPARATION AND PURIFICATION - MULTIPLE SOURCE COINCIDENCE CORRECTION - RADIOCHEMISTRY OF POLONIUM
MLM-1178 N64-19058 11-23

INFLUENCE OF NITRIC ACID ON REDUCTION OF CERIUM IONS IN POLONIUM ALPHA RADIATION FIELD
LFEN-2 N64-29235 21-07

RADIATION SICKNESS STUDIES - RADIOPROTECTIVE PROPERTIES OF ADRENOCORTICOTROPIN /ACTH/, USE OF DRUGS IN SICKNESS INDUCED BY POLONIUM INJECTIONS, AND TREATMENT OF SKIN LESIONS
JPRS-26542 N64-29759 21-14

POLONIUM COMPOUND
PHYSICAL AND CHEMICAL PROPERTIES, CHARACTERISTICS, INORGANIC AND ORGANIC COMPOUNDS OF POLONIUM
MLM-1165 N64-13381 04-23

POLYCRYSTAL
ENERGY DISTRIBUTIONS FOR ATOMS SPUTTERED FROM COPPER & POLYCRYSTALLINE SURFACES UNDER MERCURY & NOBLE GAS BOMBARDMENT
AD-424612 N64-12476 04-23

ENERGY DISTRIBUTIONS OF SPUTTERED ATOMS FOR VARIOUS POLYCRYSTALLINE TARGETS
N64-12481 04-23

X-RAY DIFFRACTION METHODS APPLIED TO SUBSTRUCTURE AND DISLOCATION DISTRIBUTION OF SINGLE CRYSTAL AND POLYCRYSTALLINE ALUMINUM N64-12763 04-23

ELASTIC PROPERTIES OF POLYCRYSTALLINE NICKEL OXIDE
AROD-2892-2 N64-13041 04-19

MICROPLASTIC BEHAVIOR OF POLYCRYSTALLINE NICKEL - DEFORMATION, MICROFLOW STRESS, & DIMENSIONAL STABILITY
SSD-TDR-63-348 N64-14346 06-18

BEHAVIOR OF NONCUBIC POLYCRYSTALLINE METALS IN THERMAL CYCLING N64-16607 08-18

ANISOTROPIC AND ISOTROPIC TRANSPARENT POLY-CRYSTALLINE CERAMICS N64-16612 08-19

DIFFUSION OF SILVER IN POLYCRYSTALLINE COPPER AND COPPER-ANTIMONY ALLOY N64-17039 09-25

STRAIN RATE SENSITIVITY OF HIGH PURITY POLY-CRYSTALLINE ALUMINUM
AROD-2998-2 N64-17627 09-33

ELASTIC PROPERTIES OF POLYCRYSTALLINE MAGNESIUM ALUMINATE SPINEL N64-20693 13-19

ENERGY SPECTRA OF IONS SCATTERED BY POLYCRYSTALLINE SURFACES OVER SMALL ANGLES
FTD-TT-64-543/1&2&4 N64-26211 18-23

PHOTOCONDUCTIVITY IN POLYCRYSTALLINE CADMIUM TELLURIDE
AD-601800 N64-28821 20-25

NEW FLUORIDE SYSTEMS WITH CONTROLLED GROSS DEFECTS - MECHANICAL, OPTICAL, AND ELECTRICAL PROPERTIES OF POLYCRYSTALLINE AGGREGATES AT HIGH PRESSURES
AD-602150 N64-28867 20-07

USE OF ANISOTROPIC DYE MOLECULES TO TAG AMORPHOUS REGIONS OF POLYCRYSTALLINE POLYMERS
ONR-TR-68 N64-30174 21-19

THIN FILM CADMIUM TELLURIDE POLYCRYSTALLINE SOLAR CELLS
QTPR-4 N64-31252 22-06

GRAIN BOUNDARY EFFECTS ON MECHANICAL PROPERTIES OF POLCRYSTALLINE AGGREGATES
TR-6 N64-32555 23-25

DYNAMIC DEFORMATION OF SINGLE CRYSTAL AND POLYCRYSTALLINE SPECIMENS OF HIGH PURITY ALUMINUM
TR-2 N64-32952 24-18

POLYETHYLENE
INSPECTION OF THICK POLYETHYLENE SECTIONS BY RADIOGRAPHY AND FLUOROSCOPY
PA-TM-1145 N64-12344 03-19

SCATTERING OF LIGHT FROM THIN POLYMER FILMS - BIAXIALLY ORIENTED POLYETHYLENE
ONR-TR-59 N64-13306 04-23

CRYSTAL STRUCTURE & LATTICE ENERGY OF POLYPEPTIDE AND POLYETHYLENE POLYMERS - HELICAL MACROMOLECULES
AD-425881 N64-14031 05-23

TRANSIENT THERMOCONDUCTIVITY OF POLYETHYLENE, POLYTETRAFLUOROETHYLENE, & POLYMETHYLMETHACRYLATE AT ELEVATED TEMPERATURES
NASA-CR-53071 N64-15789 07-13

INELASTIC SCATTERING OF MONOENERGETIC NEUTRONS IN ZIRCONIUM HYDRIDE, POLYETHYLENE, LIQUID METHANE, AND LIQUID PARA-HYDROGEN
GA-4434 N64-16128 08-23

INTRODUCTION PROCESSES OF ORGANIC PEROXIDES INTO POLYTHENES TO FORM CROSS-LINKED POLYETHYLENES
COA-NOTE-MAT-2 N64-16922 09-07

MONTE CARLO ANALYSIS OF NEUTRON SCATTERING FROM SMALL VOLUME OF CARBON, BERYLLIUM, ALUMINUM, IRON, AND POLYETHYLENE
NAA-SR-9418 N64-17290 09-23

METHOD FOR OBTAINING ULTRAVIOLET AND VISIBLE SPECTRA OF INSOLUBLE MATERIALS BY USING LOW MOLECULAR WEIGHT POLYETHYLENE AS A DISPERSION MEDIUM
BM-RI-6439 N64-18993 11-23

COMPATIBILITY OF POLYETHYLENE FILTER MEMBRANES WITH LIQUID PROPELLANTS AND SOLVENTS
RPL-TDR-64-38 N64-21452 14-19

IONIZING RADIATION CROSS LINKING OF LINEAR POLYETHYLENE N64-22062 15-07

MELTING OF MIXED POLYETHYLENES
TIL/T.5331 N64-28116 20-07

DETECTION OF POLYETHYLENE SINGLE CRYSTALS DEPOSITED ON REFLECTING SUBSTRATE USING INCIDENT LIGHT MICROSCOPE N64-28650 20-25

ANGULAR DISTRIBUTION OF FAST NEUTRONS SCATTERED THROUGH POLYETHYLENE-SLAB SHIELDING
NARF-63-5T N64-31300 22-23

MOLECULAR STRUCTURE FROM BOND STRETCHING FREQUENCY IN POLYETHYLENE COMPOUNDS BY INFRARED SPECTROSCOPY
AFCRL-64-744 N64-32666 23-07

EFFECT OF DIRECT CURRENT /DC/ CORONA DISCHARGES ON THIN FILMS OF RADIOACTIVE POLYETHYLENE-TYPE MATERIALS N64-32755 24-19

POLYHEDRON
REGULAR-FACED CONVEX POLYHEDRONS N64-31743 23-20

POLYISOBUTYLENE
CF SYNTHETIC RUBBER
RELAXATION MODULUS FOR POLYISOBUTYLENE - MOLECULAR MECHANISMS OF TORSIONAL VIBRATIONS, INTERNAL ROTATION, AND GAUSSIAN SEGMENTS
AD-431939 N64-17314 09-19

POLYMER
SA COORDINATION POLYMER
SA COPOLYMER
SA METALLOSILOXANE POLYMER
SA METALLOXANE POLYMER
SA NITROGEN POLYMER
SA ORGANOMETALLIC POLYMER
SA SILICON POLYMER
NON-NEWTONIAN FLOW IN INCOMPRESSIBLE FLUIDS - TRANSIENT FLOW IN POLYMER SOLUTIONS & MELTS
COA-N-149 N64-10417 01-11

EFFECT OF PARTLY FLUORINATED ADDITIVES ON WETTABILITY OF SOLID POLYMERS - ORGANOPHILIC/ ORGANOPHOBIC BALANCE OF SOLUTE
NRL-5952 N64-11176 02-07

COAXIAL CYLINDRICAL RHEOMETER FOR MEASURING FLOW & VISCOELASTIC PROPERTIES OF POLYMERS & SUSPENSIONS BY OSCILLATORY AND STATIONARY METHODS N64-11376 02-15

SECOND-ORDER TRANSITIONS IN SOLID POLYMERS, AND TEMPERATURE EFFECT ON TRANSITION PHENOMENA
RAE-TRANS-1046 N64-11413 02-28

FRICTION, WEAR, DECOMPOSITION MECHANISMS, AND EVAPORATION RATES OF POLYMER COMPOSITIONS IN VACUUM
NASA-TN-D-2073 N64-12105 03-19

POLYMERS SUITABLE FOR CASE INSULATION IN END-BURNING SOLID PROPELLANT ROCKET MOTORS
AD-421808 N64-12359 03-19

DYNAMIC STRESS OF VISCOELASTIC POLYMERIC MATERIALS - DEVELOPMENT OF MATERIALS, METHODS AND TECHNIQUES
RTD-TDR-63-3059 N64-12638 04-33

PREPARATION METHODS FOR ORGANIC SILICON POLYMERIC COMPOUNDS N64-12808 04-07

ORGANIC SILICON POLYMERS THAT INCLUDE VARIOUS METALS - METALLOSILOXANE POLYMERS N64-12809 04-07

POLYMER SYSTEM SMALL DEFORMATION VISCOELASTIC PROPERTIES
AROD-2589-8 N64-13042 04-19

SCATTERING OF LIGHT FROM THIN POLYMER FILMS - BIAXIALLY ORIENTED POLYETHYLENE
ONR-TR-59 N64-13306 04-23

HIGH POLYMERIC MATERIALS - BIBLIOGRAPHY N64-14189 06-19

DIELECTRIC PROPERTIES & INSULATING APPLICATIONS OF POLYMER FILMS & FIBROUS MATERIALS - BIBLIOGRAPHY N64-14190 06-19

BIBLIOGRAPHY - THERMAL DEGRADATION, OXIDATION, & ANALYSIS OF POLYMERS
PLASTEC NOTE 7 N64-14313 06-19

SCATTERING OF LIGHT FROM THIN ORIENTED POLYMER FILMS
ONR-TR-RLT-57 N64-14474 06-19

HIGH STRENGTH CHEMICAL-RESISTANT RUBBERS WHICH RETAIN PROPERTIES AT HIGH & LOW TEMPERATURES - FLUORINE-CONTAINING POLYMER SYSTEMS
PCR-337 N64-14475 06-07

MECHANISM OF RADIATION-INDUCED GEL FORMATION IN MONOMER-POLYMER MIXTURES
RAI-329 N64-14670 06-07

POLYMERS, PLASTIC MATERIALS, SYNTHETIC FIBERS, ORGANIC & INORGANIC COMPOUNDS, METALS, AND ALLOYS
CRDL-SP-5-3 N64-14815 06-19

POLAROGRAPHIC REDUCTION POTENTIALS OF POLYNUCLEAR AROMATIC HYDROCARBONS
WADD-TR-61-72, VOL. 28 N64-15071 07-07

PIEZORESISTIVE CHARACTERISTICS OF SOME ORGANIC SEMICONDUCTING POLYMERS
AD-403361 N64-15936 07-25

FLEXIBLE POLYMER FILM AND ADHESIVE RESIN BONDING OF ALUMINUM TO ALUMINUM - LOAD AND VIBRATION TEST
NASA-CR-55721 N64-16272 08-34

DYNAMIC BIREFRINGENCE OF STRUCTURAL CHANGES AND MECHANICAL PROPERTIES OF UNSATURATED POLYOLEFIN HYDROCARBONS
ONR-TR-65 N64-16437 08-23

EQUATION OF STATE OF OLIGOMER AND POLYMER LIQUIDS N64-16690 08-23

THERMAL DEGRADATION OF POLYMERIC MATERIALS IN SPACE ENVIRONMENT
NASA-CR-55046 N64-16769 08-19

HYDROPHOBIC AND OLEOPHOBIC FLUOROPOLYMER COATINGS WITH LOW SURFACE ENERGY - PROPERTIES AND APPLICATIONS
NRL-6039 N64-18368 10-19

LINEAR EQUATIONS FOR EFFECTS OF PLASTICIZER, CHAIN ENDS, AND COMONOMER ON GLASS TRANSITION TEMPERATURE OF POLYMERS
ONR-TR-RLT-75 N64-18562 11-19

RADIATION EFFECT ON MECHANICAL PROPERTIES OF POLYMERS - BIBLIOGRAPHY
SC-R-64-124 N64-19241 11-19

THERMOPLASTIC AND THERMOSETTING POLYMERS FROM PHOSPHONITRILIC CHLORIDE TRIMER FOR HIGH TEMPERATURE ELECTRICAL APPLICATIONS
QR-2 N64-20386 13-07

RANDOM SCISSION BY STRESS RELAXATION IN POLYSULFIDE & OTHER POLYNETWORKS
ONR-TR-RLT-74 N64-20466 13-19

SYNTHESIS AND EVALUATION OF HIGH ENERGY POLYMERS
ASD-TDR-62-115 N64-21295 14-26

METAL-POLYMERIC FILMS ON FRICTION SURFACE
FTD-TT-63-564/1&2 N64-21932 15-17

RUBBER ELASTICITY OF HIGHLY CROSS-LINKED, PRESWOLLEN NETWORK POLYMERS
ONR-TR-RLT-79 N64-22545 15-19

MECHANISM OF ENCAPSULATION AND PERMEABILITY OF POLYMERS, SOLID PROPELLANTS, AND CHEMICAL COMPOUNDS
AD-601772 N64-24849 17-07

GAS FLOW DIFFERENTIAL THERMAL ANALYZER FOR STUDY OF THERMAL DEGRADATION OF HIGH POLYMERS
REPT.-379 N64-24957 17-13

FLUORO COMPOUNDS FOR THERMAL PROTECTION OF POLYMERS
AD-438520 N64-25835 18-07

THERMOSTABLE ORGANIC SILANE POLYMERS
NASA-TM-X-53028 N64-27245 19-07

EQUATION OF STATE AND RELATED PROPERTIES OF POLYMER AND OLIGOMER LIQUIDS
NASA-CR-56914 N64-28954 20-07

USE OF ANISOTROPIC DYE MOLECULES TO TAG AMORPHOUS REGIONS OF POLYCRYSTALLINE POLYMERS
ONR-TR-68 N64-30174 21-19

X-RAY DIFFRACTION MEASUREMENTS OF CRYSTAL ORIENTATION RATE IN CRYSTALLINE POLYMERS SUBJECTED TO VIBRATIONAL STRESS
ONR-TR-69 N64-30175 21-25

EFFECTS OF MOLECULAR WEIGHT AND DOSAGE ON COAGULATION INHIBITION BY HIGH-WEIGHT POLYMERS IN RABBITS N64-31343 23-16

SYNTHESIS OF POLYMERS WITH SPECIAL PROPERTIES
QR-1 N64-31710 23-07

THERMAL DEGRADATION OF PYROMELLITIMIDE POLYMER IN AIR AND VACUUM BY THERMOGRAVIMETRY - RATES AND ACTIVATION ENERGIES
TG-529 N64-32099 23-07

BASIC MATERIALS RESEARCH - THEORETICAL AND EXPERIMENTAL STUDY OF METALS, CERAMICS, SEMICONDUCTORS, INORGANIC COMPOUNDS, POLYMERS, AND GLASSES
AD-420653 N64-32985 24-25

STRUCTURAL ANALYSIS PROCEDURES FOR SOLID PROPELLANT ROCKET ENGINES, AND MATERIAL BEHAVIOR OF POLYMERIC AND COMPOSITE SYSTEMS
NATSCIT-PS-64-1 N64-33324 24-26

MECHANICAL, ELECTRICAL, AND FAILURE BEHAVIOR OF GUM RUBBER VULCANIZATES, AND DEVELOPMENT OF CROSS LINKED STANDARD POLYMER
NATSCIT-PS-64-2 N64-33325 24-19

N-TYPE SEMICONDUCTOR GERMANIUM CRYSTALS WITH POLYMER COATINGS
FTD-TT-64-467/1&2 N64-33940 24-25

POLYMER CHEMISTRY
ELECTROPHYSICAL AND SEMICONDUCTOR PROPERTIES OF CONJUGATED BOND POLYMERS - SCHIFF BASES
JPRS-21573 N64-10116 01-07

POLYMER FILMS FOR SEPARATORS IN SILVER OXIDE-ZINC & SILVER OXIDE-CADMIUM CELLS FOR SPACECRAFT
NASA-CR-52475 N64-12152 03-06

POLYMERS WITH INORGANIC MAIN CHAINS
JPRS-20272 N64-12805 04-07

REACTIONS FOR FORMING HIGH MOLECULAR WEIGHT POLYMERS WITH INORGANIC AND ORGANIC-INORGANIC CHAINS N64-12806 04-07

PREPARATION METHODS FOR ORGANIC SILICON POLYMERIC COMPOUNDS N64-12808 04-07

PREPARATION OF ZIRCONIUM & HAFNIUM ALDEHYDIC POLYMERS AND TANTALUM CARBIDE-HAFNIUM CARBIDE ALLOYS N64-15109 07-19

PHOSPHONITRILIC POLYMERS STABLE AT HIGH TEMPERATURES
AD-428598 N64-15122 07-07

PREPARATION OF NEW THERMOPLASTIC, THERMOSETTING POLYMERS FROM PHOSPHONITRILIC CHLORIDE TRIMER
AD-429132 N64-15695 07-07

ORIENTATION MECHANISM OF CRYSTALLINE POLYMERS
ONR-TR-64 N64-16085 07-23

PROTECTIVE AND THERAPEUTIC ANTIRADIATION & ANTI-OXIDATION PROPERTIES OF VARIOUS POLYPHENOL STRUCTURES - CHEMOTHERAPY
JPRS-23567 N64-16543 08-16

EXPOSURE OF POLYMERIC MATERIALS TO HEAT FLUXES USING ARC IMAGING FURNACE
NASA-CR-53256 N64-17494 09-19

MASS SPECTROMETRY, INFRARED AND ULTRAVIOLET SPECTROSCOPY, MICROANALYSIS, AND POLYMER CHEMISTRY
ASD-TDR-63-620 N64-18259 10-07

CHAIN TRANSFER EXPLANATION OF ANIONIC POLYMER FORMATION OF 9-VINYLANTHRACENE - POLYMER CHEMISTRY
NASA-CR-53570 N64-18449 10-07

GRAFT AND BLOCK CHARGE TRANSFER COPOLYMERS OF VINYL AROMATIC HYDROCARBONS
NASA-CR-53572 N64-18451 10-07

COPOLYCONDENSATION OF BORON AND PHOSPHORUS DIFUNCTIONAL ACIDS N64-18486 10-07

VISCOSITIES OF METHYL-ETHYL KETONE SOLUTIONS OF HIGH MOLECULAR WEIGHT POLYISOBUTYL METHACRYLATE
PA-TR-3113 N64-18605 11-19

POLYMER CHEMISTRY - MECHANICAL STRENGTHS OF HEAT RESISTANT POLYIMIDE AND POLYBENZIMIDAZOLE RESINS
SM-44660 N64-18710 11-19

ORGANIC CHEMISTRY - CHEMICAL REACTIONS OF POLYMERIC PHOSPHONITRYLCHLORIDES
FTD-TT-63-1101/1&2&4 N64-19758 12-07

FORMATION OF POLYMER CHAINS AROUND METAL MOLECULE SKELETONS - POLYORGANIC METAL SILOXANES AND POLYORGANIC SILOXY METAL OXANES
TIL/T-5502 N64-19851 12-07

RADIATION CHEMISTRY - RESEARCH ON POLYMERS
AEC-TR-6231 N64-19885 12-23

ADDITION REACTIONS TO DOUBLE BOND OF STERICALLY HINDERED ALPHA-OLEFINS
RTD-TDR-63-4107 N64-20359 13-07

PRODUCTION OF FLUORINATED BIFUNCTIONAL ORGANIC COMPOUNDS FOR USE AS MONOMERS FOR FLUORINATED POLYCONDENSATION POLYMERS
RSIC-165 N64-20462 13-07

CHEMICAL REACTIONS OF IRRADIATED POLYMERS
AEC-TR-6372 N64-20508 13-07

RADIATION MEASUREMENT OF POLYMERS AND ORGANIC COMPOUNDS
AEC-TR-6316 N64-20560 13-07

PREPARATION OF DICYANOACETYLENE MONOMER BY DEHYDRATION OF ACETYLENECARBOXAMIDE - POLYMER CHEMISTRY
NASA-CR-56035 N64-20601 13-07

SULFUR AS PLASTICIZER FOR DISULFIDE POLYMERS
ONR-TR-RLT-78 N64-21163 14-19

MOLECULAR CHANGES IN POLYAMIDE AND ELASTOMERIC POLYMERS DUE TO NUCLEAR, ULTRAVIOLET, AND THERMAL RADIATION
AD-434216 N64-21593 15-19

LAWS OF POLYCOORDINATION AND NEW COORDINATION POLYMERS
RSIC-184 N64-21914 15-07

CATALYTIC ACTIVITY OF ORGANIC POLYMER COMPOUNDS
FTD-TT-62-1650/1&2&4 N64-21921 15-07

METHOD FOR OBTAINING HEAT RESISTANT PARAMAGNETIC POLYMER BY REACTION OF DIAMINE WITH QUINONE
FTD-TT-62-1882/1&4 N64-21968 15-07

VISCOELASTIC PROPERTIES OF ZINC PHOSPHINATE POLYMER
ONR-TR-RLT-77 N64-22526 15-19

FOAMED PLASTICS ON ORGANOSILICON RESINS COMBINED WITH ORGANIC POLYMERS
FTD-TT-62-1654/1&4 N64-22626 15-19

KINETIC EQUATIONS FOR PLASMA TURBULENCE AND CATALYTIC ACTIVITY OF CHELATE POLYMERS
FTD-TT-62-1795/1&2&4 N64-22997 16-24

NEW POLYTYPES OF SILICON CARBIDE USING LAUE METHOD OF X-RAY ANALYSIS N64-23007 16-07

STRUCTURE OF DIALLYL PHTHALATE POLYMERS BY INFRARED SPECTROMETRY N64-24130 16-19

POLYMER SYNTHESIS OF PYRAZOLE COMPOUNDS
FTD-TT-64-218/1&2&4 N64-25466 17-19

INFRARED SPECTRA OF POLYMERS, RESINS, AND RELATED MATERIALS
ASD-TDR-63-712 N64-26320 18-07

PREPARATION OF LINEAR POLYMERS OF GENERAL STRUCTURE WITH SPECIAL PROPERTIES
AD-600063 N64-26615 18-07

PYROLYSIS OF FLUOROPOLYMERS TO OBSERVE VOLATILITY N64-27830 19-07

EFFECTS OF ALKALI TREATMENT AND GAMMA RADIATION ON PYROLYSIS OF POLYTRIFLUOROETHYLENE N64-28681 20-07

RADIATION EFFECTS ON DYNAMIC PROPERTIES OF HIGH POLYMERS N64-28828 20-25

CATALYTIC ACTIVITY OF ORGANIC POLYMERS
FTD-TT-63-414/1&2 N64-29016 20-07

CHELATE POLYMERS OF BIS-DITHIOCARBAMIC ACIDS AND METALS
T-R-432 N64-29598 21-07

SYNTHESIS OF HIGH TEMPERATURE RESISTANT POLYMERS - CHLORALUMINUM PHTHALOCYANINE
QPR-2 N64-29637 21-07

RADIATION EFFECTS ON ELECTRONICS, POLYMERIC MATERIALS, AND LUBRICANTS
REIC-34 N64-29878 21-25

BONDING FLUORINATED POLYMERS TO UNIMPROVED SURFACE USING PRESSURE SENSITIVE BONDING MATERIALS
NASA-TT-F-9070 N64-31334 22-07

ORGANIC CHEMISTRY PAPERS FROM CHINESE PEOPLES REPUBLIC
JPRS-26583 N64-31572 23-07

ELECTROLYTIC INITIATION OF OLEFINIC POLYMERIZATIONS BY REDUCTION OF ORGANIC COMPOUNDS N64-31573 23-07

AROMATIC POLYFLUORINE COMPOUNDS - CHEMICAL AND THERMAL STABILITY N64-31574 23-07

CHEMICAL PROPERTIES AND STRUCTURES OF CYCLOBUTADIENE N64-31575 23-07

POLYMER PHYSICS
POLYVINYL PYRROLIDINE EFFECTIVENESS IN REDUCING RETENTION OF RADIOISOTOPES IN BODY N64-10039 01-16

COMBUSTION OF TEFLON MONOMER AND MECHANICAL & ELECTRICAL PROPERTIES OF POLYMERS
TDR-169/3240-22/TR-1 N64-13761 05-26

CHANGES IN INFRARED SPECTRA OF POLYMERS AFTER GAMMA RAY IRRADIATION N64-14082 05-23

TRANSMISSION OF POLARIZED LIGHT THROUGH ORIENTED, ANISOTROPIC, THIN POLYMER FILM
ONR-TR-67 N64-16476 08-23

GAMMA RADIATION EFFECTS ON POLYMERS USED AS POTTING AND INSULATING COMPOUNDS
NASA-TM-X-54615 N64-16701 08-19

ELECTROMAGNETIC, THERMAL, AND SEMICONDUCTING CHARACTERISTICS OF POLYMERS - RADIATION EFFECTS
JPRS-24289 N64-18971 11-07

THERMOCHEMICAL PERFORMANCE OF ORGANIC POLYMERIC COMPOSITES
LMSC-803099 N64-19028 11-13

BIOPHYSICS OF POLYMERS, NUCLEIC ACIDS, AND BRAIN NEURONS
JPRS-24261 N64-19437 12-16

RADIATION-INDUCED REACTIONS IN SWOLLEN POLYMERS - GAMMA IRRADIATION
SRI-A-120 N64-21780 15-07

DYNAMICS OF HIGH POLYMERS
NASA-RP-257 N64-26405 18-07

MECHANICAL & OPTICAL CHARACTERIZATION OF HYSOL 870 MODULUS POLYMER - PHOTOVISCOELASTIC ANALYSIS
WL-TDR-64-4 N64-26947 18-33

MOLECULAR MOTIONS IN SOLID POLYMERS BY DIELECTRIC MEASUREMENTS N64-28519 20-19

DRAG REDUCTION ON BODIES MOVING THROUGH WATER BY USE OF SOLUBLE POLYMER ADDITIVES N64-28804 20-11

POLYMERIZATION
CF CHEMICAL REACTION
IONIC POLYMERIZATION, & POLYMERIZATION IN SOLID PHASE - RADIATION POLYMERIZATION
JPRS-18868 N64-10581 01-07

REACTIONS FOR FORMING HIGH MOLECULAR WEIGHT POLYMERS WITH INORGANIC AND ORGANIC-INORGANIC CHAINS N64-12806 04-07

POLYMERIZATION OF SILICON-NITROGEN AROMATIC COMPOUNDS BY ALUMINUM ORGANIC COMPOUND
NASA-CR-51595 N64-13060 04-07

DISSOCIATION & POLYMERIZATION ENERGIES OF GROUP IV - GROUP VI COMPOUNDS - MASS SPECTROMETRIC INVESTIGATION
WADD-TR-60-782, PT. 15 N64-14512 06-07

SHEAR STRENGTH AND STATIC BENDING OF WOOD-PLASTIC COMBINATIONS PREPARED BY GAMMA RADIATION POLYMERIZATION
ORD-612 N64-14710 06-07

POLYMERIZATION OF AMINO ACIDS TO GIVE PROTEINS AND FORMED MICROPARTICLES N64-19151 11-16

THERMAL POLYMERIZATIONS OF AMINO ACIDS AND PRODUCTION OF FORMED MICROPARTICLES ON LAVA N64-19953 12-07

INFRARED FLUORESCENT CRYSTALS, GROUND STATES OF RUBY CRYSTALS, AND POLYMERIZATION OF ACETYLENE-

BENZENE & SILICON CARBIDE
JPRS-24743 N64-23001 16-01

ACETYLENIC-BENZENE SOLUTION POLYMERIZATION USING TRIBORON FLUORIDE AS CATALYST N64-23006 16-07

INDEX OF VISCOSITY FOR MEASURING POLYMERIZATION IN ETHYLSILICIDE IN INVESTMENT CASTING N64-23509 16-19

POLYMERIZATION OF PHENYLENE GROUPS WITH SILICON-NITROGEN-SILICON BONDS BY ALUMINUM ETHOXIDE
NASA-CR-55800 N64-25918 18-06

PRODUCTION OF HIGH PURITY PLASTICS BY RADIATION POLYMERIZATION AND COMPARISON OF DIELECTRIC PROPERTIES WITH POLYMERS FORMED BY CHEMICAL CATALYTIC METHODS
BMI-1678 N64-27076 19-07

FORMATION OF GUANINE DURING THERMAL POLYMERIZATION OF AMINO ACIDS
NASA-RP-283 N64-27417 19-07

CATALYTIC ACTIVITY OF RARE EARTH COMPOUNDS IN DIRECTED POLYMERIZATION N64-28043 20-07

ELASTOMER DEVELOPMENT - PREPARATION OF MONOMERIC MATERIALS AND POLYMERIZATION PROCEDURES
PCR-349 N64-28285 20-07

SYNTHESIS & POLYMERIZATION OF FLUORINATED SULFUR MODIFIED NITROSO RUBBER
QR-2 N64-30560 22-07

ELECTROLYTIC INITIATION OF OLEFINIC POLYMERIZATIONS BY REDUCTION OF ORGANIC COMPOUNDS N64-31573 23-07

SYNTHESIS OF POLYMERS WITH SPECIAL PROPERTIES
QR-1 N64-31710 23-07

ANNOTATED BIBLIOGRAPHY ON DYE SENSITIZED PHOTOREACTIONS - SILVER HALIDE, FREE RADICAL, AND POLYMERIZATION SENSITIZERS
AL-TDR-64-130, PT. II, VOL. I N64-32214 23-07

MONOMER SYNTHESIS AND POLYMERIZATION STUDIES FOR PREPARATION OF NITROSO RUBBER
RD-343-Q4 N64-32462 23-07

ELECTRIC CONDUCTIVITY OF POLYMERIC PHTHALOCYANINES SYNTHESIZED FROM PYROMELLITIC ACID
T-R-433 N64-33432 24-19

POLYNOMIAL
SA JACOBI POLYNOMIAL
SA LEGENDRE POLYNOMIAL
STANDARD MODEL ATMOSPHERE - HISTORY, CONSTANTS, EQUATIONS, & POLYNOMIAL FIT
NASA-CR-52868 N64-11333 02-21

ALGEBRAIC DEMONSTRATION OF FACTORING OF POLYNOMIAL EXPRESSION TO OBTAIN QUADRATIC ROOT
AFCRL-63-533 N64-14699 06-20

NITROVIC METHOD - TECHNIQUE FOR EVALUATING ROOTS OF POLYNOMIAL IN GRAPHICAL REPRESENTATION USEFUL FOR ENGINEERING APPLICATIONS
ITS RES. PAPER NO. 39 N64-16597 08-20

SOLUTION OF ALGEBRAIC POLYNOMIALS BY ROOT FINDING MATHEMATICAL TABLES
AFCRL-63-559/1/ N64-16816 08-20

ALGEBRAIC EQUATION SOLUTIONS - POWER TABLE AND POLYNOMIAL TABLES
AFCRL-63-559/2/ N64-16817 08-20

QUOTIENT-DIFFERENCE /QD/ ALGORITHM FOR FINDING ROOTS OF POLYNOMIAL EQUATION WITH ALL ROOTS POSITIVE
CS9 N64-30057 21-20

RADIAL HEAT POLYNOMIALS AND RELATED FUNCTIONS
NASA-CR-59339 N64-33802 24-20

POLYPHENYL ETHER
SYNTHESIS OF THERMALLY STABLE POLYPHENYLETHER ELASTOMERS
AD-600121 N64-30149 21-07

LUBRICANT PERFORMANCE ON HIGH SPEED ROLLING CONTACT BEARINGS
ASD-TDR-61-643, PT. IV N64-31938 23-17

HYDROCARBONS, ESTER BASE OIL, AND POLYPHENYL ETHER FOR LUBRICATING VACUUM MELTED STEEL BALL BEARINGS AT HIGH SPEEDS AND TEMPERATURES
NASA-CR-59283 N64-33330 24-17

POLYSLIP
EFFECT OF POLYSLIP ON STRAIN HARDENING IN ALUMINUM SINGLE CRYSTALS
UCRL-11160 N64-17706 09-25

POLYTETRAFLUOROETHYLENE
S TEFLON

POLYURETHANE
CHEMICAL ANALYSIS OF AMMONIUM PERCHLORATE-POLYURETHANE PROPELLANT
CARDE-TR-426/63 N64-10991 02-07

MILLABLE POLYURETHANE ELASTOMER COMPOUNDED FOR OPTIMUM STRESS-STRAIN PROPERTIES
RIA-63-2900 N64-12082 03-33

VISCOELASTIC TESTING OF SOLID POLYURETHANE PROPELLANTS AND PROPELLANT BINDERS
AD-424696 N64-13107 04-26

DEGRADATION OF POLYURETHANE SOLID PROPELLANT UNDER IRRADIATION
NASA-CR-53012 N64-13283 04-26

DILATOMETRIC EVALUATION OF STRAIN RATE, LOAD, TEMPERATURE, AND HUMIDITY EFFECTS ON POLYURETHANE & END CARBOXYL POLYBUTADIENES
SRI-12 N64-14024 05-26

EFFECT OF HELIUM SOUND FIELD ON BURNING RATE OF AMMONIUM PERCHLORATE-POLYURETHANE TYPE SOLID PROPELLANT
AIAA PAPER-64-108 N64-14853 06-26

FEASIBILITY OF USING ULTRASONIC TECHNIQUES TO MEASURE MECHANICAL PROPERTIES OF CAST POLYURETHANE
ASD-TDR-62-886 N64-17116 09-26

LOW DENSITY POLYURETHANE FOAM WITH MYLAR AND ALUMINUM FOIL THIN-FILM SEAL AS INSULATION SYSTEM FOR LIQUID HYDROGEN TANKS OF ROCKET VEHICLES N64-19371 12-13

APPLICATION, CURE, & PHYSICAL AND ELECTRICAL PROPERTIES OF REFORMULATED TWO-COMPONENT POLYURETHANE ELECTRICAL POTTING COMPOUND
FTDM-2910 N64-20046 13-19

FORMULATION AND CASTING OF POLYURETHANE RESINS
NASA-CR-56083 N64-20632 13-19

MECHANICAL PROPERTIES OF POLYBUTADIENE AND POLYURETHANE SOLID PROPELLANTS
REPT.-6 N64-20853 14-26

AGING OF POLYURETHANE PROPELLANT BINDER
BSD-TDR-64-52 N64-22270 15-26

CHEMISTRY OF POLYURETHANE FOAM SYSTEMS AND APPLICATION OF SYSTEMS TO ENGINEERING AND DEVELOPMENT OF RIGIDIZABLE SHELTERS AND SOLAR COLLECTORS N64-23710 16-19

MECHANICALLY MIXED POLYURETHANE FOAM-RIGIDIZED SOLAR COLLECTOR N64-23721 16-19

DEVELOPMENT OF POLYURETHANE FOAM IN VACUUM ENVIRONMENT N64-23722 16-19

MEMORY EFFECT OF POLYURETHANE FOR SPACE EXPANDABLE STRUCTURE APPLICATION N64-23733 16-19

FIRING INSTABILITY OF AGED ROCKET PROPELLANTS AND IMPROVED STORAGE STABILITY OF POLYURETHANE BINDERS
ML-TDR-64-65 N64-27640 19-19

EFFECT OF ACCUMULATED HYDROGEN ON CIRCUITRY IMBEDDED IN POLYURETHANE FOAM N64-28220 20-09

RHEOLOGICAL BEHAVIOR OF FILLED ELASTOMER - POLYURETHANE RUBBER FILLED WITH GRANULAR POTASSIUM CHLORIDE
TR-23 N64-28582 20-26

CARBON AS TRACER FOR THERMAL DEGRADATION STUDIES OF POLYURETHANS
NASA-CR-58348 N64-28968 20-07

ANNOTATED BIBLIOGRAPHY ON POLYURETHANE PROTECTIVE COATINGS
PDL-50915 N64-30758 22-19

MECHANICAL PROPERTIES OF HIGHLY FILLED ELASTOMERS OF POLYURETHANE RUBBERS
CL/64/49 N64-32289 23-19

PERFORMANCE IMPROVEMENT OF SPHERICAL ROCKET MOTOR USING HIGH ENERGY POLYURETHANE PROPELLANT
MPR-17 N64-32676 23-27

PONDEROMOTIVE FORCE
S ELECTRIC CURRENT

PONTRYAGIN PRINCIPLE
APPLICATION OF THEORY OF OPTIMAL PROCESSES TO FUNCTION APPROXIMATION AND SOLUTION CONSTRUCTION - PONTRYAGIN PRINCIPLE APPLICATION
NH-TRANS-432 N64-11633 03-20

DIFFERENTIAL CORRECTION FOR IMPROVING INITIAL VALUES OF ADJOINT VARIABLES, SATISFYING EQUATIONS OF PONTRYAGINS PRINCIPLE - CALCULUS
NASA-CR-55016 N64-12027 03-20

PONTRYAGIN OPTIMAL PRINCIPLE APPLIED TO CONTROL SYSTEM PROBLEMS WHERE OPTIMIZATION CRITERION IS MINIMUM FUEL CONSUMPTION
NASA-CR-55149 N64-13189 04-29

PONTRYAGIN MAXIMUM PRINCIPLE - SUFFICIENT AND NECESSARY CONDITION FOR OPTIMAL CONTROL
NASA-CR-55352 N64-14153 05-20

MAXIMUM PRINCIPLE AND PONTRYAGIN THEOREM FOR STEEPEST DESCENT AND DYNAMIC STRESSES IN VECTOR ANALYSIS
EUR-411.E N64-14461 06-20

COMPUTATION OF APPROXIMATELY OPTIMAL CONTROL BY PROCEDURE BASED ON PONTRYAGIN PRINCIPLE
NASA-CR-53781 N64-19351 12-06

APPLICATION OF LIAPUNOV METHOD AND PONTRYAGIN PRINCIPLE TO STABILITY AND OPTIMIZATION PROBLEMS OF NUCLEAR REACTORS
NASA-CR-53638 N64-19622 12-20

OPTIMIZATION OF SIGNAL WAVEFORMS USING PONTRYAGIN PRINCIPLE
ESD-TDR-64-18 N64-20902 14-08

SUCCESSIVE APPROXIMATIONS BASED ON PONTRYGIN PRINCIPLE FOR SOLUTION OF OPTIMAL CONTROL PROBLEMS
FTD-TT-63-701/1&2 N64-22181 15-09

ROLE OF GENERALIZED LIPSCHITZ CONDITION IN PROVING PROPERTIES OF SOLUTIONS TO DIFFERENTIAL EQUATIONS AND IN DERIVING PONTRYAGIN MAXIMUM PRINCIPLE
R-215 N64-29379 21-09

POPULATION
ANIMAL POPULATION AND ECOLOGY AT ATOMIC POWER-PLANTS
TID-19562 N64-16554 08-16

ASYMPTOTIC JOINT NORMALITY OF SAMPLE QUANTILES FROM MULTIVARIATE POPULATIONS
NRC-446 N64-18375 10-20

OPTIMUM CLASSIFICATION RULES FOR CLASSIFYING OBSERVATIONS INTO MULTIVARIATE NORMAL POPULATIONS
CU-71-64 N64-22376 15-20

MATHEMATICAL ANALYSIS OF EXPONENTIAL, WEIBULL, AND GAMMA POPULATION ORDER STATISTICS
ARL-64-31 N64-23107 16-20

THEORY OF BRANCHING PROCESSES, KOLMOGOROFF THEORY, POPULATION GROWTH, AND CHAIN-TYPE NUCLEAR REACTION
R-381-PR N64-26424 18-23

TECHNIQUES OF OBTAINING POPULATION INVERSIONS IN MOLECULAR VIBRATIONAL ENERGY LEVELS TO BE USED TO GENERATE COHERENT INFRARED RADIATION
VARIAN-314-15 N64-30159 21-25

RELATIVE POPULATIONS OF VIBRATION LEVEL AND ROTATIONAL TEMPERATURE OF NITROGEN RADICAL SYSTEM
N64-32715 24-12

POPULATION AND DISTRIBUTION OF RED VARIABLE STARS OF RV TAURI TYPE
NASA-RP-333 N64-33451 24-05

TEST PROCEDURES FOR MULTIPLE COMPARISONS OF MEAN VECTORS WITH MULTIVARIATE NORMAL PARENT POPULATIONS OF KNOWN OR UNKNOWN COVARIANCE MATRIX
ARL-64-124 N64-33953 24-20

POROSITY
FORMATION OF POROSITY DURING DIFFUSION PROCESSES IN METALS
UCRL-10383 N64-14398 06-25

INFLUENCE OF POROSITY ON PHYSICAL PROPERTIES OF SINTERED METAL POWDERS N64-15010 07-18

LAMINAR BOUNDARY LAYER ON POROUS SURFACE
FTD-MT-63-168 N64-18689 11-11

POROUS MATERIAL
THERMODYNAMICS OF IRREVERSIBLE PROCESSES APPLIED TO FLOW OF MULTICOMPONENT LIQUID THROUGH POROUS MEDIA N64-11967 03-11

ELECTRODES FROM CARBON AND POROUS NICKEL FOR THIN FUEL CELLS
AD-425031 N64-12058 03-06

POROUS FLOW-THROUGH ELECTRODES OF PLATINUM BLACK
REPT.-5 N64-14812 06-06

SELF-COOLED ROCKET NOZZLE - POROUS TUNGSTEN FABRICATION, TESTING, AND THEORETICAL ANALYSIS, BY SINTERED POWDER METALLURGY
R-3853-4 N64-14825 06-27

ROLLING TITANIUM INTO HIGHLY POROUS STRIP FOR FILTERS N64-17023 09-17

CURRENT DISTRIBUTION IN MICROFISSURE SINGLE-PORE CELL & EFFECT OF PORE STRUCTURE ON TRANSIENT BEHAVIOR OF METAL ELECTRODES
NASA-CR-53688 N64-19988 12-23

POWDER METALLURGY - FABRICATION AND TESTING OF POROUS SPHERICAL POWDER TUNGSTEN IONIZERS
NASA-CR-54016 N64-20583 13-06

POROUS MATERIALS OBTAINED FROM BYELOROUS CLAYS
N64-23191 16-19

LAMINAR BOUNDARY LAYER WITH CHEMICAL REACTION FRONT ON POROUS PLATE N64-23678 16-11

EVALUATION OF POROUS MATERIALS AS MOLECULAR LEAKS
AEDC-TDR-64-94 N64-26189 18-15

POROUS SUBSTRATE RESISTOR AIMED AT MINIATURIZATION OF METAL-FILM RESISTORS
IOR-7 N64-26196 18-09

POLARIZATION THEORY FOR POROUS DIFFUSION ELECTRODE SYSTEM - KINETICS OF REDOX REACTION
AFCRL-64-536 N64-26307 18-07

TWO PHYSICAL MODELS FOR OPERATION OF POROUS GAS DIFFUSION ELECTRODES IN FUEL CELLS - SIMPLE PORE MODEL AND THIN FILM MODEL
REPT.-7 N64-26931 18-06

HYDRODYNAMICS OF TWO-PHASE HEAT TRANSFER WITH GAS INJECTION THROUGH POROUS BOUNDARY SURFACE
ANL-6862 N64-27654 19-13

HYDRAULIC PROPERTIES OF POROUS MATERIAL - RELATIONSHIPS AMONG SATURATION, PRESSURE DIFFERENCE, AND PERMEABILITIES OF AIR AND LIQUID
HYDROL. PAPER-3 N64-28120 20-11

LONGITUDINAL WAVE PROPAGATION IN ELASTIC POROUS MEDIUM SATURATED WITH LIQUID N64-28475 20-11

LIMITS OF FLAME QUENCHING USING GRANULAR AND POROUS MATERIALS N64-28478 20-11

POROUS MATRIX PHASE SEPARATOR FOR ION ENGINE PROPELLANT FEED SYSTEM
NASA-CR-54152 N64-30033 21-27

LONGITUDINAL ELASTIC WAVE VELOCITY IN POROUS MEDIA WITH LIQUID SATURATION - CRUDE OIL EXPLORATION
FTD-TT-64-210/1&2 N64-30877 22-12

ADSORPTION OF FLUOROCARBONS ON SILICA AND FERRIC OXIDE GELS
AD-601718 N64-31092 22-07

INTERNAL HEAT EXCHANGE IN POROUS STAINLESS STEEL DURING AIR COOLING
FTD-MT-63-210 N64-32044 23-13

POROUS TUNGSTEN IONIZERS FOR ELECTRIC PROPULSION SYSTEM
AIAA PAPER-64-691 N64-32723 24-27

PORPHYRIN
SA CHLOROPHYLL
SA HEMOGLOBIN
ENZYMATIC REACTION BETWEEN IRON & PROTOPORPHYRIN UNDER OXYGEN DEFICIENCY CONDITIONS - HYPOXIA
N64-15038 07-16

PORPOISE
S DOLPHIN

PORTABILITY
LIGHTWEIGHT PORTABLE BATTERY CHARGERS
ARI-167 N64-15600 07-06

PORTABLE BATTERY POWERED TEST EQUIPMENT FOR MEASUREMENT OF ELECTRONIC PROPERTIES OF SEMICONDUCTOR DEVICES
REPT.-3 N64-28740 20-09

PROTOTYPE ALL-MECHANICAL PORTABLE FIELD CALIBRATOR FOR RADIOLOGICAL SURVEY INSTRUMENTS
AD-446447 N64-32578 23-15

POSITION INDICATOR
OPTICAL OBSERVATIONS FOR USE IN DETERMINING POSITION AND VELOCITY OF SPACECRAFT IN REGION BETWEEN EARTH AND MOON
NASA-TN-D-2448 N64-28723 20-29

POSITIONING
TRILATERATION TECHNIQUES FOR RAPID POSITIONING OF MOBILE ELECTRONIC EQUIPMENT
RADC-TDR-64-131 N64-24784 17-09

MISSILE POSITION AND ATMOSPHERIC REFRACTIVE INDEX ESTIMATION BY LEAST SQUARES METHOD
ERDA-43 N64-31327 22-08

POSITRON
CF CHARGED PARTICLE
CF ELEMENTARY PARTICLE
QUANTUM ELECTRODYNAMICS - HIGH ENERGY INTERACTIONS OF ELECTRONS AND POSITRONS
JPRS-17999 N64-10494 01-23

SPECTRAL DISTRIBUTION OF COPPER POSITRON FLUX IN INFINITE COPPER MEDIUM
ORNL-3469 N64-12118 03-23

GENERATING POSITRONS IN TARGETS BOMBARDED BY ELECTRON BEAM USING ELECTRON-PHOTON CASCADE CALCULATIONS N64-12533 04-23

USE OF OPTICS FOR STUDY OF POSITRON TRANSFER IN LINEAR ACCELERATOR
LNF-63/70 N64-13177 04-23

POSITRON SCINTILLATION CAMERA FOR DETECTING REAL AND SIMULATED BRAIN TUMORS N64-15215 07-16

POSITRON DEPOLARIZATION MECHANISMS EFFECT OF ELECTRON COLLISIONS AND MULTIPLE SCATTERING ON NUCLEI N64-16264 08-23

DISTRIBUTION OF BONE MARROW IN SKELETON OF HUMAN BODY, RABBIT, AND RAT, USING RADIOACTIVE IRON ISOTOPE AND POSITRON SCINTILLATION CAMERA
N64-22853 16-16

SCINTILLATION CAMERA WITH LARGE SODIUM IODIDE CRYSTAL FOR OBSERVING POSITRONS AND GAMMA RADIATION EMITTED BY ISOTOPES N64-22858 16-16

TRANSPORT OF ACCELERATED POSITRONS IN NONPLANAR WAVE IN PARTICLE ACCELERATOR
LNF-64/5 N64-23013 16-23

MONOCHROMATIC PHOTON PRODUCTION BY POSITRON ANNIHILATION IN LIGHT ELEMENTS
LNF-64/2 N64-23223 16-23

VACUUM PROBLEM OF ELECTRON STORAGE RINGS
LNF-64/19 N64-25665 17-23

WEAK INTERACTIONS OF VARIOUS COMBINATIONS OF MESONS, POSITRONS, NEUTRINOS, PROTONS, AND NEUTRONS
CERN-64-26 N64-26587 18-23

POSITRON-ELECTRON RATIO OF PRECIPITATING ELECTRONS
N64-28857 20-28

INELASTIC ELECTRON-PROTON, POSITRON-PROTON, AND MUON-PROTON SCATTERING
SLAC-25, PT. 2 N64-31058 22-23

REACTION BETWEEN ELECTRONS AND POSITRONS IN STORAGE RING
LNF-64/33 N64-32003 23-23

POSITRON-ELECTRON RATIO IN PRIMARY COSMIC RADIATION MEASURED AS FUNCTION OF ENERGY - COSMIC RAY ORIGIN N64-33036 24-28

POSITRON ANNIHILATION
FREE POSITRON ANNIHILATION MEAN LIFETIMES IN RARE AND DIATOMIC GASES IN LIQUID AND SOLID STATES
NASA-RP-140 N64-16689 08-23

POSTFLIGHT
POSTFLIGHT MEDICAL EXAMINATIONS OF U.S.S.R. ASTRONAUTS N64-25168 17-14

POSTURE
SA ORTHOSTATIC TOLERANCE
PSYCHOMOTOR AROUSAL, HEMORRHAGE, AND UPRIGHT POSTURE EFFECTS ON CIRCULATION OF CHIMPANZEE
ARL-TDR-63-28 N64-13854 05-16

PERCEPTION OF POSTURAL VERTICAL AFTER PROLONGED BODILY TILT IN NORMALS & SUBJECTS WITH VESTIBULAR DEFECTS
NASA-CR-55614 N64-15355 07-14

POTASSIUM
CF ALKALI METAL
ELECTROLYTE MATRIX COMBINATIONS FOR MERCURY POTASSIUM FUEL CELL
NASA-CR-52141 N64-10085 01-06

ELASTIC SCATTERING CROSS SECTIONS FOR SLOW ELECTRONS INCIDENT ON SODIUM & POTASSIUM
NASA-CR-55166 N64-13373 04-23

PARAMETER AND GRAPHIC COMPARISON OF TWO MELTING EQUATIONS FOR GASES AND METALS - HYDROGEN, OXYGEN, SODIUM, & POTASSIUM
NASA-CR-55331 N64-14291 06-23

PRESSURE DERIVATIVES OF SINGLE CRYSTAL ELASTIC CONSTANTS OF POTASSIUM
TR-7 N64-14490 06-25

ION EXCHANGE OF ISOTOPIC SODIUM-24 AND POTASSIUM-32 BETWEEN BLOOD AND CENTRAL NERVOUS SYSTEM DURING HYPOXIA N64-14588 06-16

QUANTITATIVE ANALYSIS OF OXYGEN IN POTASSIUM
NASA-RP-142 N64-17562 09-07

ELECTROLYTE MATRIX COMBINATIONS FOR MERCURY-POTASSIUM FUEL CELL
NASA-CR-53297 N64-17606 09-06

X-RAY FLUORESCENCE ANALYSIS OF POTASSIUM, BARIUM, RUBIDIUM, STRONTIUM, TITANIUM, ZIRCONIUM, AND PHOSPHORUS
ASIC-137 N64-17656 09-07

TESTING ELECTROLYTE MATRIX COMBINATION OF MERCURY-POTASSIUM FUEL CELL
NASA-CR-53527 N64-18219 10-06

ELECTROLYTE MATRIX COMBINATIONS FOR MERCURY-POTASSIUM FUEL CELLS - COMPOSITE STRENGTH TESTING AND CONDUCTIVITY MEASUREMENTS
NASA-CR-53347 N64-18283 10-06

ELECTROLYTIC MATRIX COMBINATIONS FOR MERCURY-POTASSIUM FUEL CELL
NASA-CR-53350 N64-18285 10-06

ELECTROLYTE MATRIX COMBINATION FOR TWO MERCURY-POTASSIUM FUEL CELLS FROM FINE AND COARSE GRAIN COMPOSITES
NASA-CR-53352 N64-18287 10-06

PERFORMANCE CHARACTERISTICS OF MERCURY-POTASSIUM FUEL CELLS WITH VARIOUS ELECTROLYTE COMBINATIONS
NASA-CR-53353 N64-18289 10-06

LIQUID POTASSIUM JOURNAL BEARING TEST PROGRAM FOR SPUR TURBOGENERATOR
APL-TDR-64-27 N64-19643 12-17

DIFFUSION OF POTASSIUM IN LIQUID METAL CELL
EDR-3814 N64-19798 12-06

POTASSIUM-MERCURY LIQUID METAL CELLS - HIGH HEAT TRANSFER, HIGH CURRENT DENSITY, & THERMAL AND ELECTRICAL REGENERATION CAPABILITIES
N64-19835 12-06

THERMOPHYSICAL PROPERTIES OF SODIUM AND POTASSIUM AT HIGH TEMPERATURES
NRL-5964 N64-20845 14-18

POTASSIUM-STEAM BINARY VAPOR CYCLE FOR NUCLEAR POWER PLANT
ORNL-3584 N64-21041 14-06

MERCURY, POTASSIUM, ARGON, NEON, AND HELIUM GAS DISCHARGE STUDY AT VERY LOW PRESSURES
FTD-TT-62-1238/1&2 N64-21918 15-11

DIFFUSION RATE EFFECT ON CESIUM & POTASSIUM PLASMA AFTER PASSAGE OF CURRENT
MATT-259 N64-22109 15-24

THERMIONIC CONVERSION USING CESIUM, POTASSIUM, AND SODIUM VAPORS N64-22987 16-09

SEEDING SHOCK WAVES IN ARGON AND HELIUM WITH POTASSIUM AND CESIUM
MT-51 N64-24872 17-24

CORROSION TEST LOOP FOR EVALUATION OF REFRACTORY ALLOYS IN BOILING POTASSIUM ENVIRONMENT
NASA-CR-54081 N64-25005 17-18

THERMOPHYSICAL PROPERTIES OF SODIUM AND POTASSIUM AT HIGH TEMPERATURES
NRL-6004 N64-25335 17-18

FORCED-CONVECTION BOILING POTASSIUM HEAT TRANSFER AND PRESSURE DROP
PWAC-429 N64-26060 18-13

TWO-PHASE HEAT TRANSFER IN SODIUM AND POTASSIUM BOILING AND CONDENSING
NASA-CR-54037, VOL. 1 N64-26580 18-13

POTASSIUM-MERCURY LIQUID METAL CELLS - STORAGE BATTERY N64-27112 19-06

NEUTRON ACTIVATION ANALYSIS PROCEDURES FOR DETERMINATION OF OXYGEN IN POTASSIUM
NASA-CR-54099 N64-27382 19-07

SUBSTANTIATION OF METHOD FOR OBTAINING INTERATOMIC POTENTIAL ENERGY PARAMETERS - POTASSIUM-KRYPTON INTERACTION N64-27554 19-23

MECHANISM OF IONIC EXCHANGE OF POTASSIUM AND SODIUM - NATURE OF NEUTRON DISCHARGE
N64-28038 20-16

FLUID DYNAMICS AND MECHANICAL ENGINEERING OF LIQUID POTASSIUM TWO-STAGE TURBINE
NASA-CR-54115 N64-28056 20-06

MODIFIED KJELDAHL METHOD FOR CHEMICAL ANALYSIS OF NITROGEN IN POTASSIUM
R63FPD302 N64-28065 20-07

TESTING MATERIALS FOR POTASSIUM LUBRICATED JOURNAL BEARINGS
NASA-CR-54113 N64-28085 20-18

TEST FACILITY FOR INVESTIGATING BOILING OF SODIUM AND POTASSIUM
NASA-CR-54050 N64-28744 20-13

HIGH TEMPERATURE THERMOPHYSICAL PROPERTIES OF SODIUM AND POTASSIUM
NRL-6094 N64-28814 20-18

THERMOPHYSICAL PROPERTIES OF SODIUM AND POTASSIUM AND THEIR VAPORS
NRL-6128 N64-29959 21-18

HEAT TRANSFER AND FLUID FLOW DATA FOR POTASSIUM UNDER BOILING AND CONDENSING CONDITIONS IN SPACE TURBOELECTRIC SYSTEMS
NASA-CR-54138 N64-32633 23-13

DEVELOPMENT OF LUBRICATING FILM MATERIALS FOR LONG-LIFE CONTACT SEALS USED IN HIGH-SPEED ROTATING SHAFT IN LIQUID POTASSIUM DYNAMIC POWER SYSTEM
AD-449609 N64-32651 23-17

ANNOTATED BIBLIOGRAPHY ON TECHNOLOGY OF LIQUID METALS - MERCURY, POTASSIUM, SODIUM, AND SODIUM-POTASSIUM ALLOY
NASA-CR-59028 N64-33194 24-18

NEW COLLECTIVE RESONANCE IN FREE-ELECTRON META - POTASSIUM N64-33454 24-25

EFFECTS OF POTASSIUM VAPOR ON CREEP-RUPTURE PROPERTIES OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOYS FOR SNAP 50/SPACE POWER UNIT REACTOR /SPUR/ PROGRAM
APS-5092-R N64-33532 24-18

POTASSIUM ALLOY
HIGH TEMPERATURE PUMP AND SUMP FOR LIQUID SODIUM-POTASSIUM ALLOY
PWAC-385 N64-14872 06-06

SMALL MERCURY-POTASSIUM FUEL CELLS USING LOW POTASSIUM AMALGAM IN ANODE
NASA-CR-53351 N64-18288 10-06

BINARY LIQUID METAL BOILING HEAT TRANSFER AND TWO-PHASE FLOW AND THERMOPHYSICAL PROPERTIES OF POTASSIUM AND MERCURY AMALGAM
REPT.-3549 N64-21058 14-06

EFFECT OF MAGNETIC FIELD ON TWO-PHASE FLOW OF SODIUM-POTASSIUM ALLOY AND NITROGEN IN RECTANGULAR CHANNEL
ANL-6854 N64-23284 16-24

ANNOTATED BIBLIOGRAPHY ON TECHNOLOGY OF LIQUID METALS - MERCURY, POTASSIUM, SODIUM, AND SODIUM-POTASSIUM ALLOY
NASA-CR-59028 N64-33194 24-18

POTASSIUM CHROMATE
PERFORMANCE TESTING OF UVISPEK SPECTROPHOTOMETER WITH ALKALINE SOLUTION OF POTASSIUM CHROMATE
AEET/ANAL/18 N64-15722 07-15

POTASSIUM COMPOUND
PHYSICAL METABOLIC FATIGUE DUE TO SPARTASE - ASPARTIC ACID SALTS OF POTASSIUM AND MAGNESIUM
CARI-63-12 N64-14409 06-16

NEAR-ULTRAVIOLET, VISIBLE AND INFRARED SPECTROSCOPY OF SODIUM AND POTASSIUM THIOCYANATE
N64-14912 06-07

ZINC-POTASSIUM HYDROXIDE-MERCURIC OXIDE RECHARGEABLE ELECTROCHEMICAL CELL FOR AEROSPACE APPLICATION
APL-TDR-64-15 N64-16094 07-06

STRUCTURE PRINCIPLES OF X-RAY K-ABSORPTION EDGE OF ATOMS IN CRYSTALS OF POTASSIUM HALIDES
N64-16220 08-23

THERMOCONDUCTIVITY OF SILICON BASED WITH POTASSIUM TITANATE FIBERS - COATING MATERIAL
NASA-CR-56007 N64-17688 09-13

COVALENCY IN CRYSTAL FIELD THEORY USING CLUSTER MODEL FOR POTASSIUM NICKEL FLUORIDE
N64-20416 13-25

BRAGG ANGLES FOR SOFT X-RAY EMISSION LINES USING POTASSIUM ACID PHTHALATE AND RUBIDIUM ACID PHTHALATE ANALYZING CRYSTALS
ML-TDR-64-2 N64-22374 15-25

POTASSIUM SILICATE BINDER FOR SOLID LUBRICANT FILMS
NASA-CR-58204 N64-27900 20-17

POTASSIUM HYDRIDE
POLAROGRAPHIC STUDY OF BOROHYDRIDES OF LITHIUM, SODIUM, POTASSIUM, AND CESIUM N64-23664 16-07

POTASSIUM HYDROXIDE
SILVER OXIDE-POTASSIUM HYDROXIDE-ZINC DRY TAPE BATTERY - CURRENT DENSITY AND WATT HOUR PER POUND
NASA-CR-52712 N64-11099 02-06

ELECTRON PARAMAGNETIC RESONANCE SPECTRA OF HYDRATED ELECTRON IN IRRADIATED FROZEN POTASSIUM HYDROXIDE SOLUTION N64-12496 04-23

ZINC-POTASSIUM HYDROXIDE-MERCURIC OXIDE RECHARGEABLE ELECTROCHEMICAL CELL FOR AEROSPACE APPLICATION
APL-TDR-64-15 N64-16094 07-06

POTASSIUM-HYDROXIDE-ATTACK RESISTANT SEPARATOR FOR ZINC-SILVER OXIDE BATTERY
NASA-CR-56363 N64-24032 16-06

DECOMPOSITION OF SILVER OXIDE IN AQUEOUS POTASSIUM HYDROXIDE
TR-2 N64-30624 22-07

POTASSIUM PHOSPHATE
BIREFRINGENCE AT CONSTANT FIELD INTENSITY AND VARIABLE TEMPERATURE OF POTASSIUM DIHYDROGEN & DI-DEUTERIUM PHOSPHATE CRYSTALS
E-T-G-63-20 N64-13030 04-25

POTASSIUM SILICATE
POTASSIUM SILICATE BINDER FOR SOLID LUBRICANT FILMS
NASA-CR-58204 N64-27900 20-17

POTENTIAL
S CONTACT POTENTIAL
S COULOMB POTENTIAL
S GEOPOTENTIAL
S GRAVITATIONAL POTENTIAL
S IONIZATION POTENTIAL

POTENTIAL ENERGY
POTENTIAL ENERGY CURVE OF LOWEST LYING TRIPLET SIGMA STATE OF LITHIUM HYDRIDE COMPUTED BY VARIATIONAL TECHNIQUE
NASA-CR-53060 N64-15785 07-25

EQUATIONS OF ORBITAL MECHANICS SHOWING INTER-RELATION AMONG SATELLITE ALTITUDE, SPEED, PERIOD, AND KINETIC AND POTENTIAL ENERGIES
SSD-TDR-64-20 N64-18028 10-29

CRYSTAL STRUCTURE - ENERGY BAND EVALUATION, SYMMETRY PROPERTIES, AND POTENTIALS
AD-429325 N64-18657 11-23

TRANSFORMATION OF POTENTIAL TO KINETIC ENERGY WITHIN STORM OR CYCLONE N64-24462 17-21

POTENTIAL ENERGY CURVES FOR ELECTRONIC STATES OF CHARGED AND NEUTRAL NITROGEN, OXYGEN, AND NITROGEN OXIDE MOLECULES
RM-4034-PR N64-25381 17-23

POTENTIAL ENERGY CURVES FOR ELECTRONIC STATES OF DIATOMIC MOLECULES
AD-438051 N64-25641 17-23

INTERACTION POTENTIALS FROM VELOCITY DEPENDENCE OF TOTAL ATOM-ATOM SCATTERING CROSS SECTION
N64-27553 19-23

SUBSTANTIATION OF METHOD FOR OBTAINING INTERATOMIC POTENTIAL ENERGY PARAMETERS - POTASSIUM-KRYPTON INTERACTION N64-27554 19-23

INTERACTION POTENTIALS FROM VELOCITY DEPENDENCE OF TOTAL ATOM-ATOM SCATTERING CROSS SECTIONS
N64-27556 19-23

POTENTIAL THEORY
BASIC SPATIAL PROBLEMS OF POTENTIAL AND ELASTICITY THEORY FOR REGIONS BOUNDED BY TWO CLOSED SURFACES
N64-27983 20-23

CAPACITIES AND POTENTIAL THEORY IN LOCALLY EUCLIDEAN SPACES
AROD-1517-67 N64-31653 23-23

INTERACTION POTENTIAL DETERMINATION FOR COLLISION INVOLVING PROTON APPROACHING AXIS OF HYDROGEN MOLECULE
NOLTR-64-85 N64-31673 23-23

POTENTIOMETER
MEDICINE AND PHYSIOLOGY - TRACER STUDIES OF MUSCLE FATIGUE AND MULTICHANNEL POTENTIOMETERS FOR PHYSIOLOGICAL MEASUREMENTS
JPRS-18339 N64-11041 02-01

ELECTROMAGNETIC RELAY SWITCHING CIRCUIT FOR MULTIPOINT REGULATION - POTENTIOMETER
FTD-TT-63-431/1&2 N64-11163 02-06

INTERCHANGING PERSHING ST-120 SERVO BOX WITHOUT READJUSTING ACCELEROMETER AMPLIFIER BALANCE POTENTIOMETER
RG-TR-63-24 N64-12221 03-15

MULTIRANGE AUTOMATIC BRIDGE AND POTENTIOMETER WITH MEASURING SYSTEM FOR RESISTANCE THERMOMETER AND THERMOCOUPLE GROUPS N64-13581 05-15

PRESSURE GAUGES, POTENTIOMETERS, & STRAIN GAUGES FOR COMBUSTION CHAMBER ANALYSIS
N64-28585 20-20

SUBMINIATURIZED TRANSISTOR TYPE CERMET POTENTIOMETER - PRODUCTION, TESTS, SPECIFICATION CHANGES, AND RELIABILITY
QPR-11 N64-29418 21-33

PRECISION POTENTIOMETERS - LOW NOISE & LONG LIFE
N64-31483 23-15

POTTING COMPOUND
GAMMA RADIATION EFFECTS ON POLYMERS USED AS POTTING AND INSULATING COMPOUNDS
NASA-TM-X-54615 N64-16701 08-19

APPLICATION, CURE, & PHYSICAL AND ELECTRICAL PROPERTIES OF REFORMULATED TWO-COMPONENT POLYURETHANE ELECTRICAL POTTING COMPOUND
FTDM-2910 N64-20046 13-19

SPACE ENVIRONMENTAL EFFECTS ON ELASTOMERIC AND PLASTIC MATERIALS AND COMPONENTS - POTTING COMPOUNDS
RSIC-150, VOL. I, APPEND. G N64-27486 19-19

POWDER
COMBUSTION PROPERTIES OF EXPLOSIVE POWDERS
N64-11977 03-26

TYPES OF EXPLOSIVE POWDERS
FTD-TT-63-281/1&2 N64-12839 04-26

APPARATUS FOR MEASUREMENT OF THERMAL CONDUCTIVITY OF POWDERS IN VACUUM FROM 120 TO 350 DEG. K.
N64-15912 07-13

PACKING PROPERTIES OF FINE POWDERS AND DEPTH OF LUNAR DUST LAYER N64-18497 10-29

FACTORS AFFECTING FLOW AND DISPERSION OF FINELY DIVIDED ORGANIC POWDERS
REPT.-2381 N64-21579 15-23

PHASE TRANSFORMATION OF BURNING POWDERS
FTD-TT-63-112/1&2&4 N64-23421 16-26

PROPELLANT CHARGES AND NOZZLE CONFIGURATIONS FOR CARTRIDGE DISSEMINATION OF LIQUIDS AND POWDERS
ER-3043C N64-27776 19-17

MORPHOLOGY OF MICROPOROUS PARTICLES AND SINTERING OF COBALT OXIDE POWDERS
REPT.-488 N64-28583 20-18

DISTRIBUTION ANALYSIS OF CRYSTALLITE SIZES FROM DETAILED PROFILES OF X-RAY DIFFRACTION LINES OF POWDER
SR-13 N64-31071 22-25

SOLAR SAIL AS POWER SOURCE FOR SATELLITE MANEUVERS AND CONVERSION OF SLAGS TO FERTILIZER POWDER
FTD-64-617/1&2&3&4 N64-32239 23-23

POWDER METALLURGY
SA AUTOCLAVE PROCESS
SA SINTERING
X-RAY ANALYSIS OF SOLUBILITY OF TITANIUM, YTTRIUM, ZIRCONIUM, AND NICKEL IN BERYLLIUM
JPRS-17681 N64-10565 01-18

ISOTHERMAL SINTERING OF POWDERED COPPER, NICKEL, AND IRON UNDER PRESSURE
JPRS-18245 N64-10574 01-18

PRODUCTION OF REFRACTORY METALS AND COMPOUNDS, HARD ALLOYS, AND FERROUS AND NONFERROUS METALS BY HOT PRESSING POWDERS
JPRS-17790 N64-10633 01-17

PROPERTIES OF METAL-CERAMIC ELECTRIC CONTACTS AS BASIS FOR POWDER METALLURGICAL STUDY OF HIGH VOLTAGE BREAKING SYSTEMS - WEARING CONDITIONS
JPRS-18926 N64-10648 01-09

POWDER METALLURGY STUDIES ON CREEP, SINTERING, CHROMIUM CARBIDE, AND DIFFUSION SATURATION
JPRS-17499 N64-10685 02-18

CREEP PROCESSES IN COMPRESSED METAL POWDER BODIES
N64-10686 02-18

LAWS OF DEFORMATION APPLIED TO SINTERING AS DEFORMING DUE TO SURFACE TENSION
N64-10687 02-18

CHROMIUM CARBIDES AND POWDER METAL ALLOYS BASED ON THEM N64-10688 02-18

POWDERED ALLOY PRODUCTION FROM METAL SPONGE BY DIFFUSION SATURATION N64-10689 02-18

WELDING OF VARIOUS GRANULATED METALLIC POWDERS - TUNGSTEN, NICKEL, TIN, LEAD, TITANIUM, ALUMINUM AND FERROALLOYS N64-10767 02-12

POWDERED METAL MATERIALS - SINTERING
JPRS-17887 N64-11007 02-01

HIGH VACUUM SINTERING-ALLOYING OF TITANIUM CARBIDE AND MOLYBDENUM, AND HEAT PRESSING
N64-11010 02-18

PLASTICIZER, EXTRUSION, AND SINTERING FOR FORMING RODS FROM REFRACTORY POWDERS N64-11012 02-17

USE OF TUNGSTEN POWDER IN PRODUCTION OF POWDER WIRE FOR AUTOMATIC BUILD-UP N64-11020 02-18

ELECTROLYTIC AND CALCIUM-THERMAL PROPERTIES OF THORIUM COMPRESSION POWDERS
JPRS-18920 N64-11348 02-18

HYDROSTATIC PRESSING OF COPPER, IRON, NICKEL, AND MOLYBDENUM POWDERS N64-11479 03-17

CRYSTAL STRUCTURE DEFECTS AND ROLLING POWDERED METALS AND ALLOYS
JPRS-17613 N64-11525 03-01

RELATIONSHIPS OF COERCIVE FORCES OF MAGNETICALLY-SOFT MATERIALS TO THE THICKNESS OF SHEET MADE FROM ROLLED POWDERS N64-11526 03-18

RELATIONSHIP OF CRYSTAL DEFECTS TO DIRECTION OF IRRADIATION - POWDER METALLURGY
N64-11527 03-25

METALLURGY OF REFRACTORY ALLOY POWDERS
N64-12893 04-18

CARBIDE HARD ALLOYS - COMPOSITION, STRUCTURE, AND TECHNOLOGICAL METHODS OF PRODUCTION - REFRACTORY POWDER METALLURGY
JPRS-22600 N64-12902 04-19

TEMPERATURE & STRAIN RATE EFFECT ON TENSILITY OF POWDER METALLURGY TUNGSTEN ROD
NASA-CR-53018 N64-13269 04-18

WETTING CARBIDE ALLOYS OF MOLYBDENUM & TITANIUM WITH NICKEL AND FORMING ALUMINUM NITRIDE BY POWDER METALLURGY
JPRS-22655 N64-13697 04-01

MOLYBDENUM-TITANIUM CARBIDE SYSTEMS - MELTING POINTS, AND X-RAY & MICROSCOPIC DATA ON CAST, SINTERED, & ANNEALED ALLOYS - POWDER METALLURGY
N64-13698 05-07

MOLTEN NICKEL WETTABILITY OF PRESSED POWDERED CARBIDE ALLOYS - NIOBIUM & VANADIUM CARBIDES, AND NIOBIUM & TITANIUM CARBIDES
N64-13699 05-19

NITRIDING ALUMINUM POWDER & DUST TO PRODUCE ALUMINUM NITRIDE - POWDER METALLURGY
N64-13700 05-07

IMPROVED PRODUCTION OF POWDER METALLURGICAL ALLOYS
ASD-TDR-7-911/VI/ N64-14322 06-18

SELF-COOLED ROCKET NOZZLE - POROUS TUNGSTEN FABRICATION, TESTING, AND THEORETICAL ANALYSIS, BY SINTERED POWDER METALLURGY
R-3853-4 N64-14825 06-27

PHYSICAL PROPERTIES, ROLLING, AND SINTERING METAL POWDERS
JPRS-22933 N64-15006 07-01

POWDERS OBTAINED FROM CARBONYLS AND OTHER PHYSICO-CHEMICAL METHODS OF PREPARATION OF POWDERS
N64-15007 07-17

ROLLING OF METAL POWDERS N64-15009 07-17

INFLUENCE OF POROSITY ON PHYSICAL PROPERTIES OF SINTERED METAL POWDERS N64-15010 07-18

POWDER METALLURGY - METAL ROLLING
N64-17208 09-18

SYNTHESIS OF HIGH TEMPERATURE MATERIALS WITH PLASMA JET USING POWDERED SOLIDS
NRL-1490 N64-17445 09-24

EFFECT OF DYNAMIC & STATIC PRESSURE ON DENSITY OF POWDER MIXTURE OF IRON, LITHIUM, NICKEL, & ZINC OXIDES
ERR-FW-212 N64-18947 11-17

FIRST-STAGE DENSIFICATION OF CALCIUM FLUORIDE POWDER UNDER HIGH PRESSURE AND FIXED TEMPERATURE
UCRL-11214 N64-18986 11-19

STRUCTURAL CHANGES IN ALUMINA IN MOLTEN SINTERED ALUMINUM POWDER - METALLURGY
EUR-589.F N64-19040 11-18

POWDER METALLURGY - SINTERING TUNGSTEN POWDER, PLASTIC FLOW IN SINTERED GLASS, AND FOAMED METAL STRUCTURES
AD-437378 N64-19163 11-18

POWDER METALLURGY - FABRICATION AND TESTING OF POROUS SPHERICAL POWDER TUNGSTEN IONIZERS
NASA-CR-54016 N64-20583 13-06

FABRICATION OF ELECTRONIC PARTS FROM BERYLLIUM OXIDE POWDER AND DETERMINATION OF PHYSICAL PROPERTIES OF TEST PIECES
AD-600126 N64-21027 14-19

OXIDATION RATE OF IRON POWDER AT HIGH TEMPERATURE
TIL/T-5483 N64-21196 14-18

MIXING MECHANISMS STUDY BY MEASURING AMOUNT OF SPINEL FORMED BY SINTERING ALUMINUM & MAGNESIUM OXIDE POWDERS
ASD-TDR-62-732, PT. II N64-21236 14-17

POWDER METALLURGY AND STRENGTH OF MATERIALS
FTD-TT-62-506/1 N64-22171 15-18

POWDER METALLURGY - EFFECT OF INTERPHASE SURFACE ENERGY ON WETTING PROCESS N64-22173 15-17

ELECTRON MICROSCOPE INVESTIGATION OF FRACTURE SURFACES IN POWDER METALLURGICAL SPECIMENS N64-22174 15-18

PRESSABILITY OF IRON POWDERS - INFLUENCE OF TECHNOLOGICAL FACTORS N64-22175 15-18

PRINCIPLES OF PHYSICAL POWDER METALLURGY
FTD-TT-62-1562/1&2 N64-23466 16-18

SCREEN, MICROSCOPIC, & SEDIMENTATION METHODS FOR GRAIN SIZE QUALITY CONTROL IN POWDER METALLURGY N64-23469 16-18

PREPARATION OF COPPER POWDER FROM LEACH SOLUTIONS AFTER PRECIPITATION WITH IRON
BM-RI-6486 N64-25833 17-18

DENSE PHASE TRANSPORT OF POWDERED METALS FOR TRIPROPELLANT ROCKET SYSTEM N64-26666 18-26

POWDER METALLURGY - CERMET MATERIALS, IRON-BRASS COMPOSITES AND REFRACTORY MATERIALS
FTD-TT-62-1473/1&2&4 N64-26734 18-18

HOT PRESSING OF ELEMENTAL METAL POWDERS TO FORM TUNGSTEN ALLOYS
SSD-TDR-64-91 N64-27441 19-18

POWDER METALLURGY CONSOLIDATION OF TUNGSTEN, MOLYBDENUM, NIOBIUM, AND TANTALUM ALLOYS-REFRACTORY ALLOYS N64-27595 19-18

PRODUCTION OF DUCTILE NIOBIUM FROM ELECTROLYTIC POWDERS
JPRS-16063 N64-28633 20-07

TUNGSTEN SHEET FABRICATION USING ULTRAFINE TUNGSTEN METAL POWDER, COLD PRESSING, AND SINTERING PROCESSES
ASC-TR-8-107 /V/ N64-29900 21-18

POWDER METALLURGY OF SUPERALLOY BILLETS - BLEND OF MOLYBDENUM POWDER WITH TITANIUM AND ZIRCONIUM CARBIDE
ASD-7-911/VII/ N64-30902 22-18

METALLURGICAL STUDIES - SINTERING OF METAL POWDERS AND RELATION BETWEEN TEMPERATURE AND DEFORMATION IN METALS
JPRS-26543 N64-31467 23-18

SOURCES OF EXCESS VACANCIES DURING SINTERING OF METAL POWDERS N64-31468 23-18

PRODUCTION OF TUNGSTEN SHEET AND PLATE BY POWDER METALLURGY TECHNIQUE
DMIC-MEMO-195 N64-33295 24-18

POWDER METALLURGY OF TUNGSTEN AND TUNGSTEN-BASE REFRACTORY ALLOYS N64-33499 24-18

COMPRESSIBILITY COMPARISONS, HOT PRESSING, SINTERING, PLASMA SPRAYING, AND SLIP CASTING TECHNIQUES FOR POWDER METALLURGY N64-33509 24-18

POWDERED METAL
ALUMINUM POWDER PRESSURE BRIQUET FORMING
JPRS-18186 N64-11212 02-17

NONFERROUS METALLURGY - TELLURIUM AND POWDERED ALUMINUM
JPRS-17727 N64-11826 03-18

TENSILE AND YIELD STRENGTH OF POWDERED ALUMINUM ALLOYS
REPT.-7-63-AP59-S N64-12867 04-18

VOLUMETRIC DETERMINATION OF METALLIC ALUMINUM IN ALUMINUM POWDER
FA-TR-T64-1 N64-13080 04-18

NITRIDING ALUMINUM POWDER & DUST TO PRODUCE ALUMINUM NITRIDE - POWDER METALLURGY N64-13700 05-07

ROLLING COBALT POWDER INTO STRIP N64-17022 09-17

MECHANICAL STRENGTH OF SINTERED METAL POWDERS N64-17060 09-18

CORROSION RESISTANCE OF EXTRUSIONS OF ALUMINUM ALLOY POWDERS IN HIGH TEMPERATURE WATER
ANL-6785 N64-18320 10-18

BRAZING SINTERED ALUMINUM POWDERS
JPRS-24355 N64-18979 11-17

STRUCTURAL CHANGES IN ALUMINA IN MOLTEN SINTERED ALUMINUM POWDER - METALLURGY
EUR-589.F N64-19040 11-18

QUANTITATIVE ANALYSIS OF ALUMINUM IN COMPRESSED AND SINTERED MIXTURES OF ALUMINUM AND ALUMINUM OXIDE POWDERS
EUR-585.I N64-19043 11-07

PLASTIC DEFORMATION MECHANISMS IN SINTERED ALUMINUM POWDER
EUR-550.F N64-20875 14-33

EFFECTS OF COLD WORKING ON MECHANICAL PROPERTIES OF PRECIPITATION HARDENED SINTERED ALUMINUM POWDER PRODUCTS
EUR-433.D N64-21003 14-18

DILATOMETRICAL ANALYSIS OF SINTERED ALUMINUM POWDER WITH VARIOUS OXIDE CONTENTS
EUR-1613.I N64-21195 14-18

MIXING MECHANISMS STUDY BY MEASURING AMOUNT OF SPINEL FORMED BY SINTERING ALUMINUM & MAGNESIUM OXIDE POWDERS
ASD-TDR-62-732, PT. II N64-21236 14-17

ELECTRON MICROSCOPIC INVESTIGATION OF ANNEALED AND ION BOMBARDED SINTERED ALUMINUM POWDER FOILS
EUR-1833.E N64-28132 20-18

FUSION WELDING OF HEAT RESISTANT SINTERED ALUMINUM POWDER
JPRS-26793 N64-31473 23-18

POWER
CF ENERGY
CF FLUID POWER
CF FORCE
ANNOTATED BIBLIOGRAPHY OF AUXILIARY POWER SYSTEMS FOR SPACECRAFT - SOLAR AND NUCLEAR AUXILIARY POWER SOURCES
SB-63-46 N64-12674 04-0

BOILER PROCESSES IN THERMAL ELECTRIC POWER STATIONS

FTD-TT-63-963/1&2 N64-14337 06-01

MARINE SCIENCES RELATED TO AEROSPACE USES OF NUCLEAR POWER N64-14568 06-16

ALGEBRAIC EQUATION SOLUTIONS - POWER TABLE AND POLYNOMIAL TABLES
AFCRL-63-559/2/ N64-16817 08-20

EVALUATION OF EARTH SOIL IMPACT BY CYLINDRICAL PROJECTILES FROM NUCLEAR POWER SUPPLY SYSTEMS
SC-RR-316-63 N64-17260 09-30

NUCLEAR LIQUID METAL CELL SYSTEM FOR SPACE POWER SUPPLIES N64-17411 09-06

HIGH POWER, HIGH VOLTAGE, AUDIOFREQUENCY TRANSFORMER DESIGNING
QR-6 N64-18885 11-09

HIGH POWER, HIGH VOLTAGE, AUDIOFREQUENCY TRANSFORMER DESIGNING
QR-6 N64-18885 11-09

POWER WIRE FOR VERY HIGH TEMPERATURE ENVIRONMENT
AD-434587 N64-21598 15-17

SILICON POWER TRANSISTOR - 500 WATTS
QR-2 N64-21847 15-09

LOW POWER, TWO SPEED TAPE RECORDER WITH ENDLESS LOOP CARTRIDGE
NASA-TN-D-2316 N64-22670 15-08

CORRECTION OF SPURIOUS POWER OUTPUT FROM MAGNETRON
PT-687 N64-23241 16-06

ARTICLES ON HEAT POWER ENGINEERING
FTD-TT-62-1738/1&2&4 N64-23487 16-01

ELECTRICAL POWER SYSTEMS FOR SPACE MISSIONS
NASA-RP-210 N64-24528 17-09

BROADBAND MICROWAVE POWER LIMITERS - SCALING, BIAS CRYSTALS, DIODE MOUNTS, AND LOW POWER PERFORMANCE OF L BAND-S BAND UNIT
QPR-3 N64-25527 17-09

PERFORMANCE AND POWER REQUIREMENTS FOR ELECTRON BOMBARDMENT ELECTROSTATIC THRUSTOR
NASA-TM-X-52019 N64-25907 18-27

MULTIPLE EMITTER TRANSISTOR IN LOW POWER LOGIC CIRCUITS N64-26445 18-09

EVALUATING LOW-POWER, X-BAND, PLATE-PULSED OSCILLATOR
REPT.-4 N64-27707 19-09

CONSTRUCTION AND RESOLUTION POTENTIAL OF FRINGE COUNTING ACCELEROMETER, MULTIPASS ACCELEROMETER, AND MANUAL SINGLE-FRINGE RESOLVING SYSTEM
IR-2 N64-29501 21-15

SUMMARY REPORT TO CONGRESS ON NASA PROGRAMS - DATA ACQUISITION, MANNED SPACE FLIGHT, NUCLEAR POWER & PROPULSION, SATELLITE APPLICATIONS, TRACKING, AND INTERNATIONAL COOPERATION N64-29539 21-01

LOW POWER MAGNETIC COMMUTATOR FOR DIGITAL SYSTEM OF MULTIPLE CONTROL OF PRODUCTION PROCESSES N64-30231 22-09

POWER REQUIREMENTS FOR PROPULSION OF VEHICLE IN TUBE IN RELATION TO VEHICLE SPEED, PROPULSION MODE, AND BLOCKAGE RATIO
TR-AE-6404 N64-30407 22-02

POWER ALLOCATION IMPROVEMENT IN MULTIPLEX TELEMETRY SYSTEMS BY MODULATING HIGH POWER-CONSUMING FUNCTION ON SEPARATE RADIO FREQUENCY CARRIER
ESD-TDR-64-104 N64-30456 22-08

OPTICAL ENCODER FOR HIGH RESOLUTION TRANSDUCER N64-31491 23-15

HIGH CURRENT, MULTIPLE CIRCUIT SWITCHING TECHNIQUES NEAR REACTOR OF NUCLEAR POWER CARRIER
RTD-TDR-63-3062 N64-32280 23-09

LASER RESEARCH - RUBY RELAXATION AND FLUORESCENT PHENOMENA, HIGH RESOLUTION SPECTOGRAPH, AND FLASH LAMP
NRL-1553 N64-33145 24-25

NUCLEAR RANKINE CYCLE SPACE POWERPLANT SIMULATION USING DIRECT-CONDENSING RADIATOR - STARTUP AND TRANSIENT OPERATION
NASA-CR-54179 N64-33853 24-27

POWER CONVERSION
SA NUCLEAR POWER CONVERSION
MATRIX, SEAL, & ELECTROLYTE DEVELOPMENT FOR THERMALLY REGENERATIVE LIQUID METAL FUEL CELL FOR CONVERSION OF HEAT DIRECTLY INTO ELECTRIC ENERGY
EDR-3344 N64-15624 07-06

ROTATIONAL SPEED CONTROL FOR SNAP 2 POWER CONVERSION
ER-5075 N64-17220 09-06

MODULAR POWER CONVERTER SYSTEMS N64-17431 09-06

CONVERSION OF THREE-PHASE POWER TO SINGLE-PHASE POWER - ELECTRICITY N64-17433 09-06

LIQUID ALKALI METALS USED AS HEAT TRANSFER MEDIUM OR MOTIVE FLUID FOR POWER CONVERSION SYSTEMS
ASD-TDR-63-703 N64-18925 11-18

POWER CONVERSION BY MAGNETOHYDRODYNAMIC ELECTRIC POWER GENERATION N64-19385 12-24

STRETCH-FORMED ALUMINUM SOLAR CONCENTRATOR FOR SPACE POWER CONVERSION SYSTEMS
NASA-CR-47 N64-21420 14-06

TRANSFORMATION OF DYNAMIC ENERGY INTO ELECTRICAL ENERGY BY ELECTRO-FLUID DYNAMIC PROCESSES - POWER CONVERSION
ARL-64-61 N64-21981 15-11

PLASMA THERMIONIC DIODES FOR CONVERSION OF NUCLEAR REACTOR POWER
GEST-2031 N64-22513 15-06

DIRECT GENERATION OF HIGH ENERGY PULSES BY ELECTROMECHANICAL POWER CONVERSION
PIBMRI-1129-63 N64-23954 16-09

LOW VOLTAGE POWER SUPPLY AND CONVERSION METHODS TO PRODUCE HIGH VOLTAGE POWER
AD-600843 N64-27867 19-06

POWER CONVERSION, SWITCHING, AND CONTROL SUBSYSTEM FOR CESIUM CONTACT ION THRUSTOR
APL-TDR-64-52 N64-28005 20-06

EFFECT OF COMPONENT SUBSYSTEMS ON PERFORMANCE OF ELECTRIC PROPULSION SYSTEMS - POWER CONVERSION, POWER CONDITIONING, AND THRUSTOR SUBSYSTEMS
AIAA PAPER-64-676 N64-28359 20-27

LIQUID MAGNETOHYDRODYNAMIC POWER CONVERSION
AIAA PAPER-64-760 N64-28411 20-06

POWER CONVERSION AND CONDITIONING SYSTEM FOR ION ENGINES
AIAA PAPER-64-764 N64-28864 20-27

CONVERTING INCIDENT R-F POWER INTO DIRECTED MOTION OF ACCELERATED EXHAUST STREAM BY CONTINUOUS MICROWAVE MAGNETIC ACCELERATOR
NASA-CR-54134 N64-30804 22-04

SOLAR, DYNAMIC, SPACE POWER SYSTEM USING STEAM AS WORKING FLUID
ASTRA-846-6.1 N64-33751 24-06

FLUID DYNAMIC DESIGN CRITERIA FOR MERCURY CONDENSOR-SUBCOOLER COMPONENT FOR SUNFLOWER POWER CONVERSION SYSTEM
NASA-CR-54013 N64-33999 24-06

POWER DENSITY
PERFORMANCE OF URANIUM DIOXIDE AND STAINLESS STEEL

CLAD FUEL AT HIGH POWER DENSITY CONDITIONS AND REDUCTIONS IN FUEL FABRICATION COSTS
GEAP-4294 N64-16250 08-23

EMBRITTLEMENT, OXIDATION, AND HIGH POWER-DENSITY EFFECTS ON ENERGY-MATERIAL INTERACTIONS
CAL-NM-1559-P-6 N64-20093 13-18

IBM 7090 COMPUTER PROGRAM IN FORTRAN FOR PERFORMING POWER SPECTRAL DENSITY ANALYSIS
SRI-MR-8 N64-21336 14-20

SPATIAL COHERENCE AND POWER DENSITY OF COOLED RUBY LASER
REPT.-1579-10 N64-23976 16-25

MINIMUM POWER DENSITY AND FREQUENCY RESPONSE RATIO FOR SEMICONDUCTOR TRIODE AMPLIFIER
N64-26440 18-09

POWER SPECTRAL DENSITY ESTIMATES OF FADING OF HIGH FREQUENCY RADIO WAVES
D1-82-0244 N64-26549 18-08

MATHEMATICAL PROPERTIES OF POWER SPECTRAL DENSITY FUNCTION - COMPONENTS AND MOMENTS
TR-21 N64-27532 19-20

STATISTICAL ANALYSIS OF TWO-DIMENSIONAL LINEAR VEHICLE USING MEASURED GROUND POWER SPECTRAL DENSITY
REPT.-8392 N64-31649 23-33

POWER DISTRIBUTION LAYOUT FOR HIGH RELIABILITY, QUADRUPLE DIVERSIFIED COMMUNICATION SYSTEM STATION
AD-601253 N64-32056 23-08

POWER EFFICIENCY
POWER OUTPUT OPTIMIZATION OF MAGNETOHYDRODYNAMIC GENERATORS WITH ARBITRARY PLASMA CONDUCTIVITY
NASA-CR-55183 N64-13400 04-24

EFFICIENCY INCREASE OF TWO-CAVITY KLYSTRON BY RADIOFREQUENCY POWER CIRCULATION INTO OUTPUT GAP
N64-16135 08-09

PATH POWER LOSSES IN ENDO-IONOSPHERIC WAVEGUIDE MODES N64-20312 13-08

POWER EFFICIENCY OF MAGNETIC INDUCTION PLASMA ENGINE
NASA-CR-54063 N64-31010 22-27

POWER GAIN
STABILIZATION OF GAIN OF PARAMETRIC AMPLIFIERS USED IN RADIOMETER RECEIVERS
AFCRL-63-573 N64-15685 07-09

ALTERNATING CURRENT BRIDGE FOR GAIN MEASUREMENT OF TRANSISTORS AT MICROAMPERE COLLECTOR CURRENTS
RAE-TM-SPACE-27 N64-22249 15-15

PETROLEUM ADDITIVES - EFFECTIVE MEANS TO INCREASE POWER AND REDUCE WEAR IN INTERNAL COMBUSTION ENGINES
FTD-TT-62-1931/1&2&4 N64-22642 15-07

DESIGN OF HIGH GAIN PROPORTIONAL FLUID AMPLIFIER
N64-25273 17-11

INTRINSIC SHORT-CIRCUIT CURRENT GAIN OF DIFFUSED BASE TRANSISTOR
TR-400-94 N64-25376 17-09

SOLID STATE MICROWAVE GENERATORS - NEGATIVE RESISTANCE AND CURRENT GAIN
REPT.-5 N64-29419 21-09

SIDELOBE REDUCTION AND GAIN CHARACTERISTICS OF PARTIALLY UNIFORM ANTENNA ARRAYS
RADC-TDR-64-243 N64-29817 21-08

ELEMENT SPACINGS IN NONUNIFORMLY SPACED ANTENNA ARRAYS - MAXIMUM POWER GAIN DETERMINATION
AFCRL-64-728 N64-32628 23-08

GAIN IN RUBY LASER CRYSTALS AS FUNCTION OF INHOMOGENEOUS MAGNETIC FIELD INTENSITY
NASA-CR-59313 N64-33805 24-25

POWER GENERATOR
SURVIVAL OF MODEL GENERATOR UNDER SUSTAINED TEST IN VACUUM WITHOUT DEGRADATION OF POWER OUTPUT
ASD-TDR-62-896, PT. 2 N64-12224 03-06

LASER APPLICATIONS - AMPLIFIER, POWER GENERATOR, & DETECTOR FOR COMMUNICATIONS & RADAR SYSTEMS
N64-12565 04-25

LIQUID METALS AS WORKING FLUIDS FOR POWER-GENERATION SYSTEMS N64-15239 07-06

HUMAN ENGINEERING IN POWER GENERATOR AND VOICE COMMUNICATION LINK SUBSYSTEMS OF MOBILE AIR TRAFFIC CONTROL & COMMUNICATION SYSTEM, AN/TSQ-47
ESD-TDR-63-656 N64-15752 07-14

COMPRESSIBLE FLOW EQUATIONS FOR MAGNETOHYDRODYNAMIC POWER GENERATOR
R64SD5 N64-16463 08-24

ENCAPSULATED THERMIONIC POWER GENERATOR
MND-2945-1 N64-16566 08-06

MAGNETOHYDRODYNAMICS OF PARTIALLY IONIZED GASES - PROPULSION AND POWER GENERATION - SQUID PROJECT
N64-18865 11-24

PRODUCTION OF ELECTRON BEAMS AND DESIGN OF ASSOCIATED BEAM COUPLING STRUCTURES FOR USE IN GENERATING COHERENT POWER IN SUBMILLIMETER REGION
RTD-TDR-63-4212 N64-20404 13-09

THERMOELECTRIC POWER MODULES
AD-600365 N64-21326 14-06

BRAYTON CYCLE FOR USE IN POWER GENERATOR FOR SPACE MISSIONS
SAE PAPER-741A N64-22416 15-06

LINEAR BEAM AND MICROWAVE POWER GENERATION
RADC-TDR-64-140, VOL. 1 N64-24785 17-23

ELECTROMECHANICAL GENERATION OF PULSED POWER
PIBMRI-1138-63 N64-25229 17-08

WICK-FED BURNER WITH SIMULATED FLAT DIODE AS HEAT SOURCE FOR THERMIONIC POWER GENERATORS
REPT.-1 N64-25316 17-06

INVERTED COAXIAL MAGNETRON WITH AXIALLY EXTENDED INTERACTION AREA FOR HIGH POWER GENERATION
REPT.-20-F N64-25996 18-23

ELECTROSTATIC POWER GENERATOR
QTPR-2 N64-26747 18-09

AUXILIARY POWER GENERATING SYSTEM FOR LARGE SPACE LABORATORY - SOLAR DYNAMIC SYSTEMS, SOLAR CELLS AND BATTERIES, AND SYSTEM FOR NUCLEAR AUXILIARY POWER-8 /SNAP-8/
AIAA PAPER-64-719 N64-28373 20-06

SPACE LOGISTICS FOR ELECTRICAL POWER GENERATOR SYSTEM FOR SPACE STATION
AIAA PAPER-64-720 N64-28374 20-06

PRINCIPLES OF ELECTROSTATIC PROPULSION, TYPES OF THRUSTORS, POWER GENERATION SYSTEMS, AND INSTRUMENTATION
NASA-TM-X-51766 N64-28953 20-27

THERMIONIC GENERATORS SUITABLE FOR LIQUID-METAL HEATING IN SPACE RADIATOR CONFIGURATIONS
PWA-2303 N64-29449 21-06

SOLAR CELL ARRAYS FOR ELECTRICAL POWER GENERATION IN SPACE
AIAA PAPER-64-738 N64-29602 21-08

MAGNETOPLASMADYNAMIC POWER GENERATOR
IRD-64-36, PT. 1 N64-30427 22-24

CLOSED LOOP FOR MAGNETOPLASMADYNAMIC POWER GENERATOR N64-30429 22-11

POWER GENERATION WITH MAGNETOPLASMADYNAMIC

GENERATOR LOOP N64-30431 22-10

POWER GENERATION WITH MAGNETOPLASMADYNAMIC GENERATOR LOOP N64-30432 22-24

FLOW PROCESSES, ATOMIC COLLISIONS, SEEDING, AND NONEQUILIBRIUM MODES IN MAGNETOPLASMADYNAMIC POWER GENERATION
IRD-64-36, PT. 3 N64-30440 22-24

PLASMA OSCILLATIONS IN ANISOTROPIC MATERIALS FOR MICROWAVE POWER GENERATION AND AMPLIFICATION - PYROLYTIC GRAPHITE
REPT.-1 N64-30763 22-24

CONFERENCE ON AEROSPACE TECHNOLOGY - MATERIALS, FABRICATION PROCESSES, ELECTRIC POWER GENERATION, INSTRUMENTATION, LUBRICATION, SUPERCONDUCTIVITY, AND PLASMA PHYSICS
NASA-SP-5015 N64-32767 24-01

ELECTRIC POWER GENERATION FOR SPACE VEHICLES - BATTERIES, SOLAR CELLS, THERMOELECTRIC CONVERTERS, MAGNETOHYDRODYNAMIC CONVERTERS, FUEL CELLS, AND THERMIONIC CONVERTERS N64-32770 24-06

ION AND PLASMA TECHNOLOGY FOR SPACE PROPULSION, POWER GENERATION, AND NUCLEAR FUSION APPLICATIONS N64-32774 24-24

CONTROL OF GAS PRESSURE BUILDUP IN THERMOELECTRIC SNAP GENERATORS
NND-3143-1 N64-32932 24-06

TRANSIENT BEHAVIOR IN THERMOELECTRIC POWER GENERATION - ANALYTIC METHOD
AD-423163 N64-32951 24-06

SUSTAINED POWER GENERATION IN MAGNETOGASDYNAMIC GENERATOR USING NONEQUILIBRIUM TECHNIQUES
NASA-CR-59276 N64-33327 24-10

HIGH POWER X-BAND GENERATOR - KLYSTRON AMPLIFIER
RADC-TDR-64-451 N64-33548 24-09

CLOSED LOOP MAGNETOPLASMADYNAMIC POWER DEVICE, AND SPECTROSCOPIC MEASUREMENT OF PLASMA TEMPERATURE & PRESSURE
REPT.-3632 N64-33824 24-24

ELECTROSTATIC POWER GENERATOR - VACUUM INSULATION AND EXCITATION TRANSFORMER
QTPR-3 N64-33886 24-06

POWER-LIMITED VEHICLE
OPTIMAL VARIABLE-THRUST TRANSFER AND RENDEZVOUS OF POWER-LIMITED ROCKET BETWEEN ECCENTRIC ORBITS
NASA-CR-59392 N64-33902 24-29

POWER PLANT
SA BY-PASS ENGINE
SA HEAT ENGINE
INGESTION OF GAS OR STONES INTO THRUST REVERSER OF JET TRANSPORT POWERPLANT
AGARD-415 N64-11908 03-27

COMPACT ELECTRICAL POWER STATION FOR MANNED LUNAR SCIENTIFIC BASE
NASA-TM-X-51372 N64-13063 04-06

BOILER PROCESSES IN THERMAL ELECTRIC POWER STATIONS
FTD-TT-63-963/1&2 N64-14337 06-01

FUEL MANAGEMENT EFFECTS ON TOTAL COSTS OF NUCLEAR POWERPLANT AND ON POWER COST
NYO-9990 N64-14909 06-23

X-20 /DYNA-SOAR/ ACCESSORY POWER UNIT
DSR-21 N64-21995 15-30

EVALUATION AND SELECTION OF POWERPLANTS FOR SPACE MISSIONS
NASA-RP-192 N64-22069 15-27

THERMOELECTRIC AND HYDROELECTRIC POWERPLANTS AND TRANSMISSION LINE NETWORKS FOR NATIONWIDE ELECTRIC POWER SYSTEM IN RUSSIA
FTD-TT-63-820/1&2 N64-22179 15-10

BINARY RANKINE CYCLE SPACE POWERPLANT
ER-5925 N64-22335 15-06

AIR COOLING OF HIGH TEMPERATURE GAS TURBINE FOR POWERPLANT USE N64-24251 17-11

ELECTROMAGNETIC ALKALI METAL PUMPS IN SPACE ELECTRIC POWERPLANT
NASA-CR-54036 N64-25903 18-06

METALLURGICAL JOINING OF REFRACTORY ELEMENTS FOR POWER PLANTS AND NOZZLE THROAT OF ROCKETS N64-27601 19-18

PROPELLER WHIRL FLUTTER OF POWER PLANT ON FLEXIBLE WING
NASA-TN-D-2399 N64-27662 19-03

CALIBRATION AND FUEL CONSUMPTION OF GAS TURBINE AUXILIARY POWERPLANT
NAEC-AEL-1767 N64-28978 20-06

SUPERCONDUCTING ROTATING ELECTRICAL GENERATORS IN LARGE SPACE POWER PLANTS
APL-TDR-64-71 N64-30815 22-25

STABILITY OF CONDENSING STEAM FLOW INSIDE TUBES FOR RANKINE CYCLE SPACE POWERPLANT DESIGN
NASA-CR-54178 N64-31716 23-06

SPACE POWER PLANT STARTUP AND TRANSIENT OPERATION SIMULATION WITH DIRECT CONDENSING RADIATOR SYSTEM
NASA-CR-54179 N64-32689 23-06

USE OF ANNIHILATION FOR SETTING IN MOTION PHOTON ROCKETS - NASCENT BEAM FOCUSING USING ELECTRIC AND MAGNETIC FIELDS
NASA-TT-F-8969 N64-33377 24-27

NUCLEAR RANKINE CYCLE SPACE POWERPLANT SIMULATION USING DIRECT-CONDENSING RADIATOR - STARTUP AND TRANSIENT OPERATION
NASA-CR-54179 N64-33853 24-27

POWER REACTOR
SA BOILING WATER REACTOR
SA LOS ALAMOS MOLTEN PLUTONIUM REACTOR /LAMPRE/
THEORETICAL ANALYSIS OF PROBLEMS DUE TO PRESENCE OF PLUTONIUM IN HETEROGENEOUS THERMAL REACTOR FUEL ELEMENTS
EUR-470.E N64-13146 04-23

FABRICATION OF PLUTONIUM FUELS FOR POWER REACTORS
DP-838 N64-13317 04-23

SYMPOSIUM ON ZIRCONIUM ALLOYS FOR POWER REACTORS - CORROSION RESISTANCE, STRUCTURE DEFECTS & ELECTRIC PROPERTIES
GEAP-4089, VOL. 1 N64-14425 06-18

SNAP REACTOR POWER SYSTEMS - APPLICATION TO MANNED SPACE STATIONS
NAA-SR-9715 N64-22949 16-27

SPACE POWER UNIT REACTOR /SPUR/ PROGRAM
APS-5071-R N64-23887 16-27

DIGITAL COMPUTER PROGRAM FOR SOLVING REACTOR KINETICS EQUATIONS
NAA-SR-9943 N64-28668 20-23

ZIRCALOY 2, ZIRCONIUM, AND NIOBIUM ALLOYS FOR USE IN PRESSURE TUBES OF POWER REACTORS
AECL-2022 N64-33136 24-18

POWER SERIES
CF ANALYTIC FUNCTION
SOLUTIONS TO DIFFERENTIAL EQUATIONS BY EXPANDING UNKNOWN FUNCTION AND INDEPENDENT VARIABLES ACCORDING TO PARAMETRIC POWER SERIES
NH-TRANS-413 N64-11566 03-20

MONOTONICITY PROPERTIES OF POWER FUNCTIONS OF EQUALITY TESTS - TWO COVARIANT MATRICES
CU-68-63 N64-12987 04-20

TRUNCATION ERRORS OF POWER SERIES SUBSTITUTION TECHNIQUE IN SOLUTION OF SECOND ORDER NONLINEAR DIFFERENTIAL EQUATIONS

ADN-02-08-62.1 N64-25967 18-20

POWER SERIES INTEGRATION APPLIED TO THREE BODY PROBLEM AND ELECTRON MOTION IN MAGNETIC FIELD
NASA-TN-D-2356 N64-32638 23-20

POWER SOURCE
EFFECT OF SCIENTIFIC DEVELOPMENTS ON TRANSPORTATION, COMMUNICATION, POWER RESOURCES, AND CONSTRUCTION INDUSTRIES N64-11514 03-01

TRANSMISSION METHODS, POWER SOURCES, AND SIGNAL DETECTION IN MILLIMETER WAVELENGTH
RE-TR-63-30 N64-12367 03-15

MATERIAL SELECTION AND FABRICATION TECHNIQUES FOR LIGHTWEIGHT HEAT EXCHANGERS OF ADVANCED POWER SYSTEMS
ASD-TR-7-936/5/ N64-12028 04-13

CLAD CARBIDE EMITTER THERMIONIC POWER MODULE FOR SIMULATING NUCLEAR REACTOR INSTALLATION, DESIGN, & PERFORMANCE
AI-9050 N64-13237 04-06

ULTRASONIC WELDING EQUIPMENT WITH 25-KILOWATT POWER SOURCE FOR REFRACTORY METALS
ASD-TR-7-888/4/ N64-13833 05-17

PARAMETRIC INFLUENCE ON OUTPUT POWER OF TWO-GAP KLYSTRON N64-16139 08-09

ENGINEERING AND TECHNOLOGY OF CHEMICAL-TO-ELECTRICAL ENERGY CONVERSION DEVICES AND ACCESSORY EQUIPMENT
AD-431610 N64-16953 09-06

FUEL CELLS - POWER SOURCES CONFERENCE N64-17376 09-06

LARGE SCALE PROGRAM FOR SECONDARY SPACE BATTERIES N64-17419 09-06

PERFORMANCE AND RELIABILITY OF SEALED CYLINDER NICKEL-CADMIUM STORAGE SPACE BATTERY
NASA-CR-53258 N64-17492 09-06

INCREASING ENTHALPY AND POWER OBTAINABLE FROM ARC AIR HEATERS AT VARIED PRESSURES
RTD-TDR-63-4055 N64-18011 10-13

HANDBOOK OF SHIELDING REQUIREMENTS & RADIATION CHARACTERISTICS OF ISOTOPIC POWER SOURCES FOR TERRESTRIAL, MARINE, AND SPACE APPLICATIONS
ORNL-3576 N64-19070 11-23

GENERAL CHARACTERISTICS FOR EVALUATION OF POWER SOURCES N64-19846 12-06

CAPABILITY OF COMMUNICATIONS AND GROUND POWER EQUIPMENT TO OPERATE UNDER COLD WEATHER CONDITIONS
TAC-TR-63-73 N64-19863 12-08

SOLAR SAIL AS POWER SOURCE FOR SATELLITE MANEUVERS AND CONVERSION OF SLAGS TO FERTILIZER POWDER
FTD-64-617/1&2&3&4 N64-32239 23-23

POWER SPECTRUM
POWER SPECTRAL METHOD OF DIGITAL COMPUTER CALCULATION OF WING GUST LOADS N64-10214 01-20

IBM 7090 COMPUTER PROGRAM IN FORTRAN FOR PERFORMING POWER SPECTRAL DENSITY ANALYSIS
SRI-MR-8 N64-21336 14-20

POWER SPECTRAL GUST DESIGN PROCEDURE FOR CIVIL AIRCRAFT N64-24397 17-03

POWER SPECTRAL DENSITY ESTIMATES OF FADING OF HIGH FREQUENCY RADIO WAVES
D1-82-0244 N64-26549 18-08

MATHEMATICAL PROPERTIES OF POWER SPECTRAL DENSITY FUNCTION - COMPONENTS AND MOMENTS
TR-21 N64-27532 19-20

POWER SPECTRA OF VERTICAL AND HORIZONTAL COMPONENTS OF ATMOSPHERIC TURBULENCE MEASURED FROM LOW ALTITUDE AIRCRAFT
ARC-CP-733 N64-30019 21-21

POWER SPECTRAL GUST DESIGN PROCEDURES FOR CIVILIAN AIRCRAFT - DYNAMIC ANALYSIS
MPR-4 N64-30072 21-32

POWER SPECTRAL GUST DESIGN FOR CIVIL AIRCRAFT
MR-6 N64-30489 22-33

POWER SPECTRAL DENSITY FUNCTION IN ANALYSIS OF FLIGHT VEHICLE VIBRATION DATA
NASA-CR-90 N64-30830 22-33

POWER SPECTRUM MEASUREMENTS OF ATMOSPHERIC TURBULENCE IN SEVERE STORMS AND CUMULUS CLOUDS
NASA-TN-D-2469 N64-30998 22-21

CHANNEL VOCODER SIGNAL POWER SPECTRUM OF SPEECH ENERGY AVERAGE
ESD-TDR-64-58 N64-33319 24-08

POWER SUPPLY
SA GENERATOR
POWER SUPPLY SYSTEM OF TELSTAR SATELLITE N64-10876 02-06

SILVER-ZINC BATTERIES AS THE POWER SUPPLY FOR EXPLORER XVII
NASA-TM-X-51150 N64-10905 02-06

SPACE POWER SYSTEM JET CONDENSERS & RADIATORS - MERCURY TEST FLUID & HIGH SPEED PHOTOGRAPHIC STUDIES
NASA-CR-52862 N64-11232 02-06

SUPERCRITICAL WORKING FLUID ENGINE FOR NUCLEAR POWERED ELECTRIC GENERATING SYSTEM
NYO-10398 N64-11629 03-06

DIRECT CURRENT POWER SUPPLY FOR TRACING HYSTERESIS LOOP OF FERROELECTRIC CERAMIC MATERIALS
SC-RR-260-63 N64-11631 03-04

AIRCRAFT POWER CONTROL SYSTEMS ANALYSIS N64-13562 05-03

ELECTRON BEAM AND PLASMA INTERACTIONS FOR MICROWAVE POWER SYSTEMS
RADC-TDR-63-465, VOL. 1 N64-13791 05-24

SILVER-CADMIUM BATTERY DEVELOPMENT - PROTOTYPE CASES, CELL CONSTRUCTION & PERFORMANCE AND WATER PERMEABILITY TESTS
NASA-CR-55793 N64-16008 07-06

EVALUATION OF EARTH SOIL IMPACT BY CYLINDRICAL PROJECTILES FROM NUCLEAR POWER SUPPLY SYSTEMS
SC-RR-316-63 N64-17260 09-30

HOURLY AVERAGE WIND VELOCITIES AT LUCKNOW - WIND POWER UTILIZATION
NAL-TN-WP-26-63 N64-18394 10-21

POWER SUPPLY MODULES-VOLTAGE REGULATORS AND DC CONVERTERS - DESIGN AND FABRICATION
NADC-EL-6322 N64-18587 11-08

FREQUENCY STABILIZATION OF ASTABLE MULTIVIBRATORS AGAINST TEMPERATURE AND POWER SUPPLY VOLTAGE VARIATIONS
TR-1186 N64-19117 11-09

POWER SUPPLIES FOR REMOTE LOCATIONS - INSTALLATION OF DIESEL ALTERNATORS
WRE-TN-FAC-5 N64-20555 13-06

ELECTRIC BREAKDOWN AND ARCING IN ION THRUSTORS FED POWER SUPPLIES
AIAA PAPER-63-057 N64-20713 13-27

FEASIBILITY OF COMBINING SOLAR ENERGY, THERMAL STORAGE, AND THERMOELECTRIC GENERATOR AS POWER SUPPLY FOR SPACE APPLICATION
RTD-TDR-63-4248 N64-21568 15-01

POWER SUPPLY PROTECTIVE CIRCUITRY
AD-432059 N64-21619 15-09

STUDY OF SNAP POWER SYSTEMS IN LUNAR ENVIRONMENT

AI-8576 N64-22002 15-27

HANDBOOK ON SPACE VEHICLE POWER SOURCES
SSD-TDR-64-8 N64-22556 15-06

COMPUTATION OF POWER REQUIREMENTS FOR DIGITAL COMPUTER AND ANALOG COMPUTER ACTUATION SYSTEMS
REPT.-747 N64-22799 16-20

SMALL STEAM BOILERS OF MINIMUM SIZE AND WEIGHT FOR SOLID-FUEL-FIRED POWER SOURCE - MULTIFUELED THERMAL-ENERGY-CONVERSION SYSTEM
REPT.-7 N64-22975 16-13

THERMIONIC CONVERTER BACKPACK MOBILE POWER SUPPLY FOR MILITARY APPLICATION N64-22994 16-09

GYROSCOPIC POWER SYSTEMS N64-23387 16-15

TRANSISTOR REGULATED MULTIVOLTAGE POWER SUPPLY FOR MICROWAVE TRANSMITTER
TR-1231 N64-23984 16-06

LINEAR BEAM AND MICROWAVE POWER GENERATION
RADC-TDR-64-140, VOL. 1 N64-24785 17-23

BENEFICIAL USES OF RADIATION EFFECTS - POWER, ILLUMINATION, RADIOGRAPHY, TELETHERAPY, AND TRACER TECHNOLOGY
REIC MEMO-25 N64-24967 17-16

SYNCOM II ELECTRICAL POWER SYSTEM
AIAA PAPER-64-456 N64-25047 17-09

HIGH POWER PULSE MODULATOR FOR POWER SUPPLY TO ELECTRON GUN
NRL-6073 N64-25181 17-09

RADIATOR AREA POTENTIAL OF OUT-OF-PILE THERMIONIC SPACE POWER SYSTEM USING INERT GAS AS HEAT TRANSFER MEDIUM
NASA-TN-D-2429 N64-26781 18-06

ELECTRIC ARC WIND TUNNEL POWER SUPPLY FOR REENTRY STUDIES N64-27107 19-06

LOW VOLTAGE POWER SUPPLY AND CONVERSION METHODS TO PRODUCE HIGH VOLTAGE POWER
AD-600843 N64-27867 19-06

RELIABILITY IMPROVEMENTS OF TRANSISTOR - GERMANIUM POWER DEVICE
AD-603363 N64-28606 20-17

RADIOISOTOPE FUELED THERMIONIC DIODE POWER SYSTEM
NASA-TM-X-55064 N64-28899 20-06

APPLICATIONS OF ENERGY STORAGE SYSTEMS USING VARIOUS ENERGY SOURCES N64-29485 21-06

INTERNATIONAL COOPERATION ON TEST EQUIPMENT, INSTRUMENTATION, POWER SUPPLY, AND ANALYSIS FOR PROGRAM ON TWO-PHASE FLOW
GEAP-4367 N64-29622 21-11

HIGH VOLTAGE HIGH POWER RESEARCH FACILITY FOR ELECTRONIC COMPONENT EXPERIMENTATION AND TESTING
EB-5296-0359-3 N64-30059 21-10

BRAYTON CYCLE SPACE POWER SYSTEMS ANALYSIS
NASA-TN-D-2487 N64-30101 21-06

DIRECT READOUT EQUATORIAL WEATHER SATELLITE - TIROS SYSTEM, METEOROLOGICAL APPLICATION, AND SOLAR CELL POWER SUPPLY
AED-R-2169 N64-30669 22-32

PERFORMANCE ANALYSIS OF ALTERNATING CURRENT ELECTRIC ARC POWER SUPPLY
NOLTR-63-275 N64-31671 23-10

GROUND ELECTRODES FOR ELECTRIC EQUIPMENT, POWER SUPPLY, AND TRANSMISSION SYSTEMS
N64-32014 23-12

VEHICLE SYSTEMS OPERATIONAL TEST OF STATIC ORBITAL FUEL CELL AND DESIGN OF PROTOTYPE FUEL CELL POWER SYSTEM BASED ON MULTICELL MODULE
QTPR-3 N64-32197 23-06

SOLAR CELL ARRAY SHADING AND METHOD TO REDUCE ASSOCIATED POWER LOSS N64-32739 24-06

SOLAR SPACE POWER SUPPLY - FRESNEL REFLECTOR, HELIOTROPIC ORIENTATION, BELT RADIATOR, & ROTARY BOILER-TURBINE
NASA-CR-50760 N64-33801 24-06

POWER TRANSMISSION
ALTERNATING CURRENT ELECTRIC POWER TRANSMISSION LINES FOR LONG DISTANCES - BIBLIOGRAPHY
OTS-63-21222 N64-11006 02-06

TROPOSPHERIC SCATTERING REDUCTION OF POWER AND ANALOG COMPUTER SIMULATION TEST FOR CONTROLLED CARRIER POWER TRANSMISSION
AFCRL-63-159/REV./ N64-12052 03-08

POWER TRANSMISSION SHAFTS OPERATED ABOVE PREVIOUS CRITICAL SPEEDS
ASD-TDR-62-728, PT. 1 N64-12225 03-09

TRANSMISSION OF HYDRAULIC POWER USING PULSATING FLOW - PISTON TRANSFORMER WITH FLUID REPLENISHMENT UNIT
RAC-933-3 N64-14107 05-11

ANTENNA SYSTEMS DESIGN FOR MICROWAVE POWER TRANSMISSION N64-21016 14-09

MULTIPACTOR EFFECT APPLIED TO PROBLEM OF TRANSMITTING HIGH POWER LEVELS THROUGH WAVEGUIDES OPERATING AT LOW GAS PRESSURES
SSD-TDR-64-77 N64-22322 15-08

HYDRAULIC POWER TRANSMISSION BY PULSATING FLOW OR PRESSURE - COMPONENT DESIGN AND ANALOG COMPUTER PROGRAM
RAC-933-5 N64-25924 18-11

FLUORESCENCE, POWER TRANSMISSION, AND SOLID STATE PHYSICS N64-26555 18-08

SUPERCRITICAL OPERATION OF HIGH SPEED POWER TRANSMISSION SHAFTS, DESIGN FOR HELICOPTER USE
ASD-TDR-62-728 N64-28226 20-17

BRAZING OF END SEALS FOR HIGH TEMPERATURE, HIGH VOLTAGE POWER TRANSMISSION WIRE
QR-5 N64-28621 20-17

INTERFERENCE-SUPPRESSING POWER CONDUCTOR
R-275 N64-28901 20-08

POWER LINE TRANSIENT ANALYSIS AND DESIGN OF POWER SYSTEM TRANSIENT SIMULATOR
N-621 N64-31025 22-09

CONFORMAL GEAR FOR HELICOPTER POWER TRANSMISSION
TRECON-TR-64-28 N64-31954 23-17

GROUND ELECTRODES FOR ELECTRIC EQUIPMENT, POWER SUPPLY, AND TRANSMISSION SYSTEMS
N64-32014 23-12

WAVEGUIDES FOR HIGH POWER TRANSMISSION LINES
RADC-TDR-64-277 N64-33306 24-09

PRACTICE
S MEMORY
S TRAINING

PRANDTL NUMBER
PRANDTL NUMBER DISTRIBUTION IN TURBULENT BOUNDARY LAYERS WITH HEAT TRANSFER AT SUPERSONIC SPEEDS
DRL-508 N64-14303 06-11

LOW & HIGH PRANDTL NUMBER APPROACHES FOR HEAT TRANSFER IN LAMINAR FLOW OF INCOMPRESSIBLE FLUIDS WITH CONSTANT MATERIAL PROPERTIES
NASA-TM-X-54568 N64-15887 07-11

HEAT TRANSFER IN TURBULENT FLUID FLOW AT LARGE PRANDTL NUMBERS AND VARIABLE VISCOSITY
FTD-TT-62-1090/1&2&4 N64-16407 08-13

SOLUTION OF PRANDTL EQUATIONS FOR INCOMPRESSIBLE LAMINAR BOUNDARY LAYERS N64-19162 11-11

INFLUENCE OF PRANDTL NUMBER ON EQUILIBRIUM FLOW OF VISCOUS GAS IN VICINITY OF FORWARD PART OF BLUNT BODY
N64-23481 16-11

PRANDTL NUMBER MEASUREMENTS AND THERMOCONDUCTIVITY AND VISCOSITY PREDICTIONS FOR AIR, HELIUM, AND AIR-HELIUM MIXTURES
NASA-CR-55273 N64-25659 17-13

FREE CONVECTION OF LOW PRANDTL NUMBER FLUID IN CONTACT WITH UNIFORMLY HEATED VERTICAL PLATE
ANL-6835 N64-26771 18-11

PRANDTL NUMBER EFFECT ON NATURAL CONVECTION HEAT TRANSFER OF SMALL PARTICLES
REPT.-150 N64-31439 23-13

PRASEODYMIUM
EXCHANGE INTERACTIONS TO PRODUCE POPULATION INVERSIONS IN LASER MATERIALS - COOPERATIVE MECHANISMS IN CHLORIDES OF PRASEODYMIUM AND ERBIUM
AFCRL-64-261 N64-31985 23-25

PRECESSION
DETERMINATION OF AXIAL ORIENTATION OF ROCKET OR SATELLITE IN CONSTANT PRECESSIONAL MOTION
AFCRC-63-871 N64-12659 04-29

EFFECT OF PRECESSION OF NEAR-EARTH ORBITS ON TIMING OF INPLANE LAUNCHING FOR NODAL ENCOUNTER WITH MOON
NASA-TN-D-2442 N64-27975 20-29

APPROXIMATE METHOD FOR CALCULATING FAR FLOW FIELD PROPERTIES OF ROCKET EXHAUSTING INTO VACUUM
U-2630 N64-28013 20-11

FINAL PRECESSION ANGLES FOR FERRITE SAMPLES SUBJECTED TO PULSED MAGNETIC FIELDS
NL-1149 N64-28713 20-25

PRECIPITATION
ATMOSPHERIC ELECTRIC MEASUREMENTS AT HIGH MOUNTAIN STATIONS - CLOUDS, PRECIPITATION, AND CHARGE
JPRS-21604 N64-10200 01-12

FORMATION & DISPERSION OF INSOLUBLE PRECIPITATES FORMED ON HEATING OILS
JPRS-17760 N64-10718 02-26

DISTRIBUTION OF VERTICAL AIR CURRENTS AND DETERMINATION OF PRECIPITATION ZONES OVER HOLLAND FOR STABLE & UNSTABLE ATMOSPHERIC STRATIFICATIONS
JPRS-19119 N64-11125 02-21

CONVECTIVE AND NONCONVECTIVE ZONES OF PREFRONTAL PRECIPITATION - VERTICAL MOTION, MOISTURE, AND CLOUD STRUCTURE
AFCRL-63-717 N64-11182 02-21

FORECASTING PRECIPITATION, CLOUD SEEDING, AND HEIGHT OF LOWER BOUNDARY OF CLOUDS
JPRS-18696 N64-11836 03-21

THERMAL CONDITIONS FOR INDUCING WINTER PRECIPITATIONS BY ANTIHAIL ROCKET
N64-11837 03-21

PRECIPITATION AND CLOUD DISPERSAL BY ACTION OF AQUEOUS SOLUTIONS OF LEAD IODIDE ON SUPERCOOLED CLOUDS
N64-11840 03-21

FORECASTING AMOUNT OF AIR-MASS SHOWER PRECIPITATION BY LAYER METHOD N64-11843 03-21

OBSERVATION OF CLOUDINESS & PRECIPITATION TO ESTIMATE CLIMATIC RESOURCES FOR ARTIFICIAL INCREASE OF PRECIPITATION N64-11844 03-21

CORRELATION OF PRECIPITATION DATA IN VARIOUS SECTIONS OF LAKE SEVAN BASIN N64-11845 03-21

PATTERN OF SUMMER PRECIPITATION ON LEEWARD SLOPE OF MOUNTAINS IN ARID ZONES OF ARMENIA
N64-11847 03-21

HOT SEMIWORKS FOR RECOVERY OF STRONTIUM-90 - SOLVENT EXTRACTION, ION EXCHANGE, & PRECIPITATION PROCESSES
HW-72666 N64-13018 04-07

PRECIPITATION IN FRANCE & CLASSIFICATION BY REGIMES N64-13472 05-21

TWO-SPHERE BOUNDARY-VALUE PROBLEM FOR EFFECT OF ELECTROSTATIC FIELDS ON DROPLET PAIRS, AS IN WARM CLOUD PRECIPITATION - FORCES AND FIELD STRENGTH
RM-3860-PR N64-15380 07-23

CHEMICAL EXTRACTION AND SEPARATION OF PROTACTINIUM BY VARIOUS SOLVENTS AND METHODS OF PRECIPITATION
TID-7675 N64-15651 07-07

CHARACTERISTICS OF POSITIVE CORONA FOR ELECTRICAL PRECIPITATION AT HIGH TEMPERATURES AND PRESSURES
BM-RI-6397 N64-16884 08-23

CLOUD PRECIPITATION AND AIRCRAFT SMOKE TRAIL
JPRS-23407 N64-17339 09-21

RADAR METHOD OF DETERMINING PHASE STATE OF CLOUDS AND PRECIPITATION N64-17340 09-21

RADAR BACKSCATTERING OBSERVATION OF DISTORTION OF CUMULONIMBUS PRECIPITATION
AFCRL-64-249 N64-18355 10-08

RADAR STUDY OF MORPHOLOGY OF SUBTROPICAL PRECIPITATION
SCI. REPT.-63-35F N64-18999 11-21

APPLICABILITY OF DUAL-FREQUENCY WEATHER RADAR SYSTEM TO STUDY OF CONVECTIVE LIQUID PRECIPITATION
SCI. REPT.-63-22T N64-19012 11-21

RADAR ATTENUATION BY PRECIPITATION AND STUDY OF MORPHOLOGY OF SUBTROPICAL PRECIPITATION BY USE OF DUAL-FREQUENCY WEATHER RADAR SYSTEM
SCI. REPT.-63-30T N64-19013 11-21

DUAL-FREQUENCY WEATHER RADAR SYSTEM FOR STUDYING MORPHOLOGY OF SUBTROPICAL PRECIPITATION
N64-19297 11-21

DIFFUSION OF MIXTURE IN ATMOSPHERE IN PRESENCE OF CLOUDS AND PRECIPITATION N64-20210 13-21

OPTICAL MASERS, SEPARATIONS CHEMISTRY, MAGNETIC RESONANCE STUDIES, TITRATION, & PRECIPITATION PROCESSES
JPRS-24552 N64-20657 13-01

METHOXY-BENZYL-ACETIC ACID AS PRECIPITANT FOR ZIRCONIUM N64-20660 13-07

SEPARATION AND DETERMINATION OF ZIRCONIUM AND THORIUM BY ORGANIC PRECIPITATION
N64-20925 14-07

EFFECTS OF COLD WORKING ON MECHANICAL PROPERTIES OF PRECIPITATION HARDENED SINTERED ALUMINUM POWDER PRODUCTS
EUR-433.D N64-21003 14-18

COMPARISON OF PRECIPITATION AND TROPOSPHERIC SCATTERING CROSS SECTIONS
TR-1 N64-21798 15-08

ELECTROLYTIC PRECIPITATION OF SUBSTANCES AND MIXES FOR SYNTHESIS OF HIGH QUALITY FERRITES
FTD-TT-63-348/1&2&3&4 N64-22349 15-07

ATMOSPHERE MODEL - WATER VAPOR, CLOUDS, & PRECIPITATION DISTRIBUTIONS
REPT.-7048-105 N64-24087 16-17

TITANIUM ALLOYS TO INDUCE COMPOUND PRECIPITATION HARDENING AND STABLE-BETA ALLOYS
WAL-TR-405/2-5 N64-25226 17-18

PREPARATION OF COPPER POWDER FROM LEACH SOLUTIONS AFTER PRECIPITATION WITH IRON
BM-RI-6486 N64-25833 17-18

DETERMINATION OF VERTICAL VELOCITY AND PRECIPITATION RATE PATTERNS ASSOCIATED WITH DEVELOPING COLD LOW AT 500-MB
CIR-3961 N64-27074 19-21

HIGH-STRENGTH, PRECIPITATION-HARDENING, LOW-MAGNETIC IRON-CHROMIUM-NICKEL ALLOYS
N64-27148 19-18

CORRELATION OF RAINDROP-SIZE DISTRIBUTION AND RADAR ECHO VARIABLES TO IMPROVE RAINFALL INTENSITY MEASUREMENT
TR-9 N64-29645 21-21

DROP SIZE DISTRIBUTION & LIQUID WATER CONTENT IN NATURAL CLOUDS BY IMPACT ON CHARGED METAL TARGETS PRODUCING ELECTRIC PULSES
AFCRL-64-621 N64-30005 21-21

ENERGETIC PARTICLE PRECIPITATION TO AURORAL ZONE
AFOSR-425 N64-30711 22-12

INCREASED PRECIPITATION BY CLOUD SEEDING WITH SILVER IODIDE SMOKE FROM AIRCRAFT
RPL-161 N64-32310 23-21

INCREASED PRECIPITATION BY CLOUD SEEDING WITH SILVER IODIDE SMOKE FROM AIRCRAFT
RPL-163 N64-32311 23-21

RADAR PRECIPITATION PROFILES OF RAINSTORMS AND APPLICATIONS IN SYNOPTIC METEOROLOGY
MW-37 N64-32478 23-21

CORRELATION OF RAINDROP-SIZE DISTRIBUTION AND RADAR MEASUREMENT OF SURFACE PRECIPITATION
QTR-6 N64-33354 24-21

PRECIPITATION PARTICLE MEASUREMENT
EXPERIMENT IN PRECIPITATION PARTICLE MEASUREMENT BY MEAN VERTICAL VELOCITY, TEMPERATURE, AND HUMIDITY COMPUTATIONS - WEATHER FORECASTING
N64-11603 03-21

LARGE DIURNAL VARIATIONS OF GEOMAGNETICALLY TRAPPED AND PRECIPITATED ELECTRONS OBSERVED AT LOW ALTITUDES
NASA-CR-53829 N64-19615 12-28

POSITRON-ELECTRON RATIO OF PRECIPITATING ELECTRONS
N64-28857 20-28

PRECISION
HIGH PRECISION, HIGH RESOLUTION TRACER PHOTOGRAPHY FOR LOW NOISE, STEADY LAMINAR AIR FLOW MICROSCOPIC FLUCTUATIONS AT WALL BOUNDARY
TECH. REPT.-17 N64-11301 02-02

PRECISION OF OPTIMUM FILTER K - MINIVAR
N64-18237 10-20

OPTIMUM STARTING OF NUCLEAR ROCKET TO GIVE FULL POWER WITH PRECISION TIMING AND MINIMUM NOISE
NASA-CR-59209 N64-33120 24-27

PRECISION TOOLS, MACHINE TOOLS, AND MEASURING APPARATUS
NASA-SP-5013 N64-33608 24-17

PRECISE LATERAL-ADJUSTMENT INSTRUMENT SUPPORT
N64-33609 24-17

STRAIN GAUGE-JIG DEVICE FOR FAST PRECISION LEVEL AND SQUARENESS DETERMINTATIONS ON MACHINED PARTS
N64-33612 24-15

PRECISION LATHE MOUNTING RING N64-33616 24-17

PREDICTION
S IMPACT PREDICTION
S LINEAR PREDICTION

PREDICTION RECORDING
OPTICAL OBSERVATIONS OF SATELLITES RECEIVED BY PREDICTION SERVICE
N64-33518 24-08

PREDICTION THEORY
PREDICTION THEORY IN REFERENCE TO DISCRETE TIME SERIES FOR LONG-RANGE OCEAN ACTIVITY, ROLL AND VIBRATION RESPONSE
MAC-307-01 N64-18268 10-12

ATMOSPHERIC ACOUSTIC FACTORS IN SATURN LAUNCH VEHICLE TESTING - REDUCTION BY WEATHER FORECASTING
AIAA PAPER-64-207 N64-21537 15-30

PREDICTION OF DIFFUSION DOWNWIND FROM LINE SOURCES
AFCRL-64-163 N64-22608 15-11

PREDICTION IN BIVARIATE NORMAL DISTRIBUTION
NRC-480 N64-31900 23-20

PREDICTOR
PREDICTOR TO AID HUMAN OPERATOR IN REMOTE CONTROL OF VEHICLE OPERATING WITH SIGNAL TRANSMISSION LAG
NASA-TN-D-2229 N64-11993 03-22

SIMPLIFIED PREDICTOR-CORRECTOR METHOD FOR NUMERICAL SOLUTION TO CLASS OF DIFFERENTIAL EQUATIONS
AD-433914 N64-27215 19-20

PREFLIGHT ANALYSIS
CHARACTERISTICS OF BLACK BRANT I ROCKET - PRE-FLIGHT CALCULATIONS AND FLIGHT TEST RESULTS FROM FIRST SEVEN FIRINGS
CARDE-TN-695/63 N64-11634 03-04

PRELAUNCH TESTING
PRELAUNCH TESTING AND TEST FACILITIES AT CAPE CANAVERAL FOR LAUNCHING OF TELSTAR SATELLITE
N64-10893 02-31

PRESERVATION
IONIZING RADIATION AS A FOOD PRESERVATIVE
JPRS-17530 N64-10694 02-16

BIOCHEMICAL ASPECTS OF IONIZING RADIATION METHOD OF FOOD PRESERVATION
JPRS-17591 N64-10702 02-01

PRESERVATION OF FRUITS AND VEGETABLES BY IONIZING RADIATION
TID-19206 N64-12968 04-16

PRESSING
PRODUCTION OF REFRACTORY METALS AND COMPOUNDS, HARD ALLOYS, AND FERROUS AND NONFERROUS METALS BY HOT PRESSING POWDERS
JPRS-17790 N64-10633 01-17

HOT PRESSING OF TUNGSTEN POWDER
SSD-TDR-63-196 N64-11441 03-17

HYDROSTATIC PRESSING OF COPPER, IRON, NICKEL, AND MOLYBDENUM POWDERS N64-11479 03-17

DENSITY AND ELASTICITY CHANGES IN PRESSING OF ALUMINUM, TUNGSTEN, AND COPPER POWDERS
N64-11483 03-17

TOOLING FOR VERY HIGH PRESSURE PRESSING
Y-DA-470 N64-13171 04-23

HOT PRESSED ZINC SELENIDE USED AS LONG WAVELENGTH INFRARED DOMES
AL-TDR-64-9 N64-18020 10-19

METHODS OF MACHINING METALS BY PRESSING
FTD-TT-63-568/1&2 N64-19200 11-17

EFFECT OF VARIATIONS IN TIME, TEMPERATURE, AND PRESSURE ON DENSITY & GRAIN SIZE IN HOT PRESSING OF HAFNIUM-TANTALUM-ZIRCONIUM CARBIDES
NASA-RP-162 N64-19993 12-17

METAL FORGING, PRESSING, AND STAMPING METHODS IN USSR
FTD-TT-62-1676/1&2 N64-21923 15-18

DEFECTS OF PRESS CASTINGS AND METHODS FOR PREVENTION
FTD-TT-63-713/1&2 N64-21954 15-17

PRESSABILITY OF IRON POWDERS - INFLUENCE OF TECHNOLOGICAL FACTORS N64-22175 15-18

HOT PRESSING OF ELEMENTAL METAL POWDERS TO FORM TUNGSTEN ALLOYS
SSD-TDR-64-91 N64-27441 19-18

HOT PRESSING OF TITANIUM ALLOY BLANKS
JPRS-26689 N64-31034 22-18

FORCE CONDITIONS DURING PRESSING OF PIPES WITH ARBITRARY INTERNAL RELIEF N64-31422 23-17

COMPRESSIBILITY COMPARISONS, HOT PRESSING, SINTERING, PLASMA SPRAYING, AND SLIP CASTING TECHNIQUES FOR POWDER METALLURGY N64-33509 24-18

PRESSURE
SA ATMOSPHERIC PRESSURE
SA BLOOD PRESSURE
SA COMPRESSION
SA DYNAMIC PRESSURE
SA HYDROSTATIC PRESSURE
SA INTERNAL PRESSURE
SA NEWTON PRESSURE LAW
SA STATIC PRESSURE
SA SURFACE PRESSURE
CF FORCE
PRESSURE-DRAG EFFECTS OF ROUNDING LEADING EDGES OF HYPERSONIC INLETS
NASA-RP-49 N64-10072 01-02

CLEANING PROCEDURES FOR ZIRCALOY PRESSURE BONDING
WAPD-TM-375 N64-10366 01-17

ATMOSPHERIC EFFECTS ON SONIC BOOM PRESSURE WAVE SHAPES
NASA-RP-79 N64-10422 01-23

STEADY-STATE CHARACTERISTICS OF DIFFERENTIAL PRESSURE SYSTEM FOR EVALUATING ANGLES OF ATTACK AND SIDESLIP OF RANGER IV VEHICLE
NASA-TN-D-1966 N64-10519 01-02

EXPLOSIVE PROPERTIES OF OZONE IN LIQUID OXYGEN UNDER HIGH PRESSURE PULSE
FTD-TT-62-1460/1&2&4 N64-11153 02-07

ALUMINUM POWDER PRESSURE BRIQUET FORMING
JPRS-18186 N64-11212 02-17

BOUNDARY CONDITION EFFECT ON THE STABILITY OF CYLINDERS SUBJECT TO LATERAL AND AXIAL PRESSURES
LMSC-6-90-63-91 N64-11247 02-34

FLUID MECHANICS RESEARCH - BASE PRESSURE THEORY FOR SUPERSONIC BODIES
ONERA-TP-18 N64-11886 03-02

TWO-DIMENSIONAL TRIANGULAR LATTICE GAS - MONTE CARLO CALCULATIONS IN SUPERCRITICAL REGION N64-12168 03-23

TRAVERSING PROBE FOR PITOT-PRESSURE MAPPING IN HYPERSONIC WIND TUNNEL
SUDAER-170 N64-12320 03-15

TOOLING FOR VERY HIGH PRESSURE PRESSING
Y-DA-470 N64-13171 04-23

MOTION PICTURE AND TRANSDUCER STUDIES OF PRESSURE WAVE FROM SUBMERGED ELECTRIC DISCHARGE
GMRI-644.00 N64-13209 04-23

THERMODYNAMIC PROPERTIES OF PHENOL FORMALDEHYDE RESIN AT TEMPERATURES TO 6000 DEGREES KELVIN AND PRESSURES TO 100,000 ATMOSPHERES
RM-3988-PR N64-14979 06-13

PRESSURE PULSE PHENOMENA, PRESSURE VESSEL DESIGN, AND ELECTROSPARK EXTRUDING
RAC-2027 N64-15500 07-34

BASE PRESSURE ANALYSIS OF AXISYMMETRIC EJECTORS WITHOUT INDUCED FLOW
AEDC-TDR-64-3 N64-15521 07-11

HYPERVELOCITY IMPACT FLASH OF ALUMINUM SPHERES IMPINGING ON ALUMINUM PLATE AT LOW PRESSURE
NASA-TN-D-2232 N64-16118 08-23

DOUBLE SHOCK TUBE METHOD FOR SIMULTANEOUS DETERMINATION OF HIGH PRESSURE AND TEMPERATURE OF ENCLOSED GAS
SSD-TDR-63-368 N64-16129 08-11

THERMOMECHANICAL PROCEDURE OF PRESSURE WORKING HIGH MELTING HEAT RESISTANT MOLYBDENUM & CHROMIUM N64-17081 09-17

MEASURING PRESSURE PULSES AND STRESSES ON ROTATING VANES OF AXIAL COMPRESSOR N64-17175 09-03

CRYOPUMPING OF NITROUS OXIDE FOR CHAMBER PRESSURE PREDICTIONS
AEDC-TDR-63-267 N64-17520 09-19

PLASTIC STABILITY OF SIMPLY SUPPORTED SPHERICAL PLATES UNDER EXTERNAL PRESSURE
NASA-CR-53358 N64-17821 09-33

ABDOMINAL & THORACIC PRESSURES AT DIFFERENT LUNG VOLUMES N64-17927 10-16

ROTATIONALLY SYMMETRIC MOTION OF SMALL ANGLE TRUNCATED CONICAL SHELL DUE TO CONSTANT VELOCITY PRESSURE FRONT
AMRA-TR-63-28 N64-18135 10-33

IMPROVED STATIC PRESSURE SENSING PROBES FOR ALL MACH NUMBERS
LB-31575 N64-18359 10-15

STATIC PRESSURE SENSING PROBE FOR ALL MACH NUMBERS FOR AIRCRAFT OR MISSILES
LB-31589 N64-18621 11-15

PRESSURE DURING EVAPORATION OF SUBSTANCE IN BEAM OF RADIATION
FTD-MT-63-35/1&2 N64-18750 11-25

PRESSURE PROBES, DRAG MEASUREMENT DEVICES, AND DUST COLLECTORS TO MEASURE DYNAMIC AND SURFACE PRESSURE ON CYLINDRICAL BODIES
DASA-1433 N64-18846 11-15

DESIGN TECHNIQUES FOR STRUCTURALLY SUPPORTED CERAMIC RADOMES - PRESSURE DRAG, ELECTRIC, AND PHYSICAL PROPERTIES
IER-1 N64-20165 13-08

PRESSURE OSCILLATIONS INDUCED BY FORCED CONVECTION HEAT TRANSFER TO TWO-PHASE AND SUPERCRITICAL HYDROGEN
LAMS-3070 N64-21055 14-13

EFFECT OF EXTERNAL PRESSURE AND OBLIQUE INCIDENCE OF SOLAR WIND ON TERMINAL SHAPE OF GEOMAGNETIC FIELD
NASA-TR-R-181 N64-21261 14-21

BASE PRESSURE BEHIND TWO-DIMENSIONAL AND AXIALLY SYMMETRIC BACKWARD FACING STEPS IN TURBULENT SUPERSONIC FLOW
TAE-31 N64-21789 15-11

ELASTIC PROPERTIES OF ROCK UNDER HIGH ISOSTATIC PRESSURE
FTD-TT-63-725/1&2&3&4 N64-21935 15-19

DIE-FORGING UNDER PRESSURE
FTD-TT-63-567/1&2 N64-21950 15-17

CURRENT VOLTAGE RELATIONSHIP IN LOW PRESSURE CESIUM DIODE
NASA-RP-185 N64-22065 15-24

HIGH PRESSURE, HIGH TEMPERATURE METALLURGY
ASD-TDR-63-90, VOL. II N64-22266 15-18

SYSTEM COMPONENTS FOR HIGH CHAMBER PRESSURE ENGINES
NASA-CR-56308 N64-22463 15-17

MEMBRANE TRANSDUCERS TO MEASURE PRESSURE PULSE IN AIR STREAM
FTD-TT-63-737/1&2&4 N64-22660 15-02

ELECTROSYNTHESIS OF OZONE FROM OXYGEN AT HIGH PRESSURES
FTD-TT-64-195/1&2&4 N64-22668 15-07

PROPAGATION OF PRESSURE WAVES IN LIQUID HYDROGEN VAPOR MIXTURE
NASA-CR-54015 N64-23148 16-24

ION FORMATION IN LOW PRESSURE FLAMES

TP-93 N64-24988 17-26

EFFECT OF PRESSURE PROBE HOLE SIZE ON MEASUREMENT OF CHARACTERISTICS OF LAMINAR, UNIFORM VELOCITY, PROFILE JET
NASA-CR-56949 N64-25772 17-11

HYDRAULIC POWER TRANSMISSION BY PULSATING FLOW OR PRESSURE - COMPONENT DESIGN AND ANALOG COMPUTER PROGRAM
RAC-933-5 N64-25924 18-11

PRESSURE PULSE AND PULSE FREQUENCY RECORDER FOR PULSES IN LIQUID AND GAS FLOWS
FTD-TT-64-181/1&2&4 N64-25966 18-11

PRESSURE PULSE AND PULSE FREQUENCY RECORDER FOR PULSES IN LIQUID AND GAS FLOWS
FTD-TT-64-181/1&2&4 N64-25966 18-11

RELATION OF DEFLECTION TO PRESSURE FOR CLAMPED CIRCULAR PLATE IN PLASTIC RANGE
WAPD-282 N64-27412 19-33

PROPAGATION CHARACTERISTICS OF ATMOSPHERIC PRESSURE PULSES GENERATED BY NUCLEAR EXPLOSIONS
AFCRL-64-424 N64-27537 19-12

AEROTHERMAL CAPABILITY OF PLASMA HEATERS - HIGH PRESSURE AIR GENERATION
REPT.-25116 N64-28619 20-27

TRANSIENT PRESSURES IN DUCTED UNDERGROUND LAUNCHER DUE TO ROCKET SHUTDOWN DURING CAPTIVE TEST OR ABORT
REPT.-6110-9487-RU-000 N64-28793 20-33

NEW FLUORIDE SYSTEMS WITH CONTROLLED GROSS DEFECTS - MECHANICAL, OPTICAL, AND ELECTRICAL PROPERTIES OF POLYCRYSTALLINE AGGREGATES AT HIGH PRESSURES
AD-602150 N64-28867 20-07

BEHAVIOR OF GERMANIUM OXIDE, SILICON OXIDE, AND THEIR MIXTURES AT HIGH TEMPERATURES AND VERY HIGH PRESSURES
TR-8 N64-29021 21-25

ELECTROMECHANICAL TRANSDUCER SYSTEMS FOR TRANSIENT PRESSURE MEASUREMENTS
WAPD-TM-343 N64-30127 21-15

OXIDATION RATE OF CESIUM AT REDUCED PRESSURE AND TEMPERATURE
AEDC-TDR-64-195 N64-31042 22-07

ISOSTATIC PRESSURE BAKING FOR FABRICATING IMPROVED GRAPHITES
ML-TDR-64-175 N64-32203 23-17

ISOSTATIC PRESSURE BAKING PROCESS TO IMPROVE GRAPHITE MATERIALS
AD-447962 N64-32359 23-17

AVERAGE MASS FLOW VELOCITY MEASUREMENTS IN THIN RECTANGULAR CHANNELS USING SINGLE FIXED TOTAL-PRESSURE PROBE WITH FIXED STATIC PRESSURE PROBE
NASA-TN-D-2212 N64-32405 23-11

DEFORMATION UNDER PRESSURE TESTS ON NICKEL, MARAGING STEELS, MAGNESIUM OXIDE, TUNGSTEN-TANTALUM ALLOY, AND CHROME-MAGNESIUM COMPOSITE
NASA-CR-58948 N64-33097 24-18

STABILITY OF HARD-CORE PINCH DEVICE WITH ANISOTROPIC PLASMA PRESSURE
NASA-TM-X-55091 N64-33564 24-24

TRANSIENT CREEP IN THICK WALL SPHERICAL SHELLS
N64-33710 24-33

TRANSMISSION AND UTILIZATION OF HYDRAULIC POWER THROUGH USE OF PULSATING PRESSURE OR FLOW
APL-TDR-64-109 N64-33928 24-17

MEASUREMENT OF BASE PRESSURE IN FREE FLIGHT
FTD-TT-64-373/1&2 N64-33936 24-02

PRESSURE APPARATUS
FABRICATION AND EVALUATION OF ELECTRODEPOSITED PRESSURE BOTTLE
SR/D-61-2 N64-11768 03-17

HYPERSONIC WIND TUNNEL PRESSURE CONTROL SYSTEM
SUDAER-168 N64-13977 05-10

AMBIENT PRESSURE SHEET DRAWING DEVICE FOR EXPERIMENTS IN TENSILE TESTING MACHINE
REPT.-63-GC-0252M N64-31192 22-17

PRESSURE BREATHING
CF RESPIRATION
RESPIRATORY PHYSIOLOGY OF ABDOMINAL MUSCLE AND DIAPHRAGM IN PRESSURE BREATHING
N64-17929 10-16

REFLEX CONTROL OF ABDOMINAL MUSCLES IN POSITIVE PRESSURE BREATHING N64-17930 10-16

LUNG MECHANICS & VENOUS ADMIXTURE IN NEGATIVE PRESSURE BREATHING N64-17931 10-16

PRESSURE CHAMBER
RECOMMENDED SAFETY PRACTICES FOR MANNED SPACE SIMULATOR PRESSURE CHAMBERS
ARTC-41 N64-27335 19-16

PRESSURE COEFFICIENT
BASE PRESSURE COEFFICIENTS FOR X-15 AIRCRAFT FOR MACH NUMBERS TO SIX COMPARED TO WIND TUNNEL DATA, SEMIEMPIRICAL ESTIMATES, AND THEORY
NASA-TN-D-2420 N64-27122 19-04

PRESSURE DISTRIBUTION
PRESSURE DISTRIBUTION AND SHOCK STANDOFF DISTANCE FOR BLUNT CYLINDERS IN AIR AT HYPERSONIC SPEEDS
NASA-TN-D-1979 N64-10056 01-02

PRESSURE DISTRIBUTION ON BASE AND AFTERBODY OF MISSILE CONFIGURATION WITH AND WITHOUT JET FLOW USING SINGLE AND MULTIPLE NOZZLES
NASA-TN-D-2046 N64-10520 01-02

SEPARATION & CONTROL CHARACTERISTICS OF HYPERSONIC FLOW - PRESSURE DISTRIBUTIONS
ASD-TDR-63-755 N64-10539 01-03

WATER TEMPERATURE DISTRIBUTION, TEMPERATURE ANOMALY EFFECT ON ARCTIC ICE COVER, BAROCLINIC DEPTH, METEOROLOGY & HYDROLOGY BIBLIOGRAPHY
JPRS-20398 N64-10843 02-21

ULTRAHIGH-VACUUM GAS INLET VALVE IN PRODUCTION OF NONSTATIONARY PRESSURE DISTRIBUTIONS IN THE C-STELLARATOR
MATT-225 N64-12090 03-06

THEORIES ABOUT REGULAR BASES OF SETS OF WORDS - MATHEMATICAL ANALYSIS OF AUTOMATION & LANGUAGE
N64-12303 03-20

VERTICAL ATMOSPHERIC TEMPERATURE AND PRESSURE PROFILES FOR FLIGHT PATH AND SPACING OPTIMIZATION
N64-12709 04-21

PRESSURE DISTRIBUTION OF TURBULENT JET FLOW ON FLAT SURFACE
REPT. 63-12 N64-13046 04-02

PRESSURE DISTRIBUTIONS & FLOW PATTERNS ON CONES WITH SHARP EDGES AT MACH 4
ARC-R&M-3340 N64-13359 04-02

PRESSURE DISTRIBUTION ON EXTERNAL SURFACES OF NOZZLE, BASE AND SHROUDS OF SATURN I VEHICLE
NASA-TM-D-1962, SUPPL. N64-14063 05-02

PRESSURE DISTRIBUTION IN WAKE OF TWO BODIES OF REVOLUTION AT TRANSONIC AND SUPERSONIC SPEEDS
ASD-TDR-62-1104 N64-14364 06-02

PRESSURE DERIVATIVES OF SINGLE CRYSTAL ELASTIC CONSTANTS OF POTASSIUM
TR-7 N64-14490 06-25

WIND-TUNNEL TEST OF PRESSURE AND TEMPERATURE DISTRIBUTION ON FLAT PLATE ABOUT INJECTOR WITH 95

STATIC-PRESSURE PORTS AND 25 THERMOCOUPLES
NASA-CR-53039 N64-14894 06-30

HEAT TRANSFER AND PRESSURE DISTRIBUTION ON HEMISPHERE-CONE MODELS - OPTIMUM LEADING EDGES AT HIGH SPEEDS N64-15627 07-03

PRESSURE DISTRIBUTIONS FOR HYPERSONIC FLOWS OVER SHARP EXPANSION CORNER AND RAMPS ON INTERNALLY COOLED MODEL
RTD-TDR-63-4044, PT. I N64-16872 08-02

PRESSURE AND FREQUENCY DISTRIBUTION IN TURBULENT LAYERS ON SMOOTH SURFACES
RTD-TDR-63-4012 N64-17117 09-23

LOW DRAG BASE VENTED HYDROFOILS WITH CHORDWISE PRESSURE DISTRIBUTION FOR OPERATION NEAR FREE SURFACE
AD-432976 N64-17485 09-03

HELICOPTER ROTOR-BLADE DIFFERENTIAL PRESSURES, STRESSES, AND MOTIONS AS MEASURED IN FLIGHT
NASA-TM-X-952 N64-17832 09-03

PRESSURE DISTRIBUTION AND LOAD STUDIES OF COOLED-ROTOR THRUST BEARING
MTI-63TR28 N64-18044 10-17

REENTRY BODY - LONGITUDINAL STABILITY AND PRESSURE CENTER LOCATION ON SHARP RIGHT CIRCULAR CONES AT HYPERSONIC SPEEDS
NASA-TN-D-2283 N64-19322 12-02

MOON PRESSURE AND DENSITY DISTRIBUTION
N64-19358 12-29

DENSITY, TEMPERATURE, AND PRESSURE DISTRIBUTION OF WIND FROM METEOROLOGICAL ROCKET MEASUREMENTS
AFCRL-64-124 N64-19671 12-21

PRESSURE, HEAT TRANSFER & FORCE DISTRIBUTION ON SLAB DELTA WING IN AIR AND HELIUM HYPERSONIC FLOW
NASA-TR-R-153 N64-19721 12-02

WIND TUNNEL TESTING OF CIRCUMFERENTIAL PRESSURE DISTRIBUTION ON BLUNT-NOSED BODY OF REVOLUTION
NAVWEPS-8448 N64-22924 16-02

PRESSURE DISTRIBUTION IN TWO-DIMENSIONAL INCOMPRESSIBLE FLOW
AVA-42-A-20 N64-23209 16-11

DIFFERENTIAL EQUATIONS FOR PRESSURE DISTRIBUTION AROUND HERRINGBONE-GROOVED, GAS LUBRICATED, JOURNAL BEARING
MTI-64TR15 N64-23364 16-17

PRESSURE DISTRIBUTION ON SCALE MODEL RADOME
N64-23671 16-10

CONVERSION OF INTEGRAL EQUATION FOR PRESSURE DISTRIBUTION ON CIRCULAR DISC IN AXISYMMETRIC SOUND WAVE INTO SINGULAR INTEGRAL EQUATION
EM-188 N64-23878 16-23

RAYLEIGH-RITZ METHOD USED TO SOLVE STABILITY OF PROLATE SPHEROIDAL SHELLS UNDER UNIFORM EXTERNAL PRESSURE
DTMB-TRANS-317 N64-24098 16-11

EQUIVALENCE LAW RELATING TWO- AND THREE-DIMENSIONAL PRESSURE DISTRIBUTIONS FOR WINGS AT HIGH SPEED
ARC-R&M-3346 N64-25201 17-03

RELATION BETWEEN SKIN FRICTION AND HEAT TRANSFER ON SURFACE OF SPHERE AT SUPERSONIC SPEEDS - PRESSURE DISTRIBUTION AND BOUNDARY LAYER MEASUREMENTS
DTMB-AERO-1054 N64-25518 17-13

HEAT TRANSFER AND PRESSURE DISTRIBUTION ON FIN PLATE INTERFERENCE MODEL AT MACH 6
NASA-TN-D-2028 N64-25806 17-13

EFFECT OF AIRFOIL CURVATURE ON SHOCK-BOUNDARY LAYER INTERACTION AND AIRFOIL PRESSURE DISTRIBUTIONS AT TRANSONIC SPEEDS
NAL-TN-AE-20-63 N64-25870 18-03

HEAT TRANSFER AND PRESSURES ON CIRCULAR CYLINDER SWEPT BY SUPERSONIC FLOW NEAR INTERSECTION WITH WEDGE AND FLAT PLATE
NASA-TN-D-2020 N64-25910 18-13

RADIATION OF SOUND FROM CIRCULAR DISK WITH UNIFORM PRESSURE DISTRIBUTION
TRG-142-TN-64-2 N64-26032 18-23

EFFECT OF SHOCK BOUNDARY LAYER INTERACTION ON AIRFOIL PRESSURE DISTRIBUTION AT TRANSONIC SPEEDS
NAL-TN-AE-16-63 N64-26754 18-02

NUMERICAL METHOD FOR PRESSURE DISTRIBUTION ON FLAT WING OF ARBITRARY PLANFORM
AIAA PAPER-64-590 N64-27752 19-03

EFFECTS OF SURFACE PERTURBATIONS ON PRESSURE DISTRIBUTIONS ABOUT BLUNT TWO-DIMENSIONAL BODIES AT HYPERSONIC SPEEDS
FDL-TDR-64-17 N64-28549 20-02

ELASTOHYDRODYNAMICS - PRESSURE AND SURFACE TEMPERATURE DISTRIBUTION AND DEFORMATION PROFILE IN CONCENTRATED LUBRICATED ROLLING-SLIDING CONTACT
MTI-64TR37 N64-29349 21-17

LOCAL PRESSURE COEFFICIENT DISTRIBUTIONS ON SATURN IB AND SATURN S-IB TAIL SHROUDS AT SUPERSONIC SPEEDS
TB-AE-64-10 N64-29595 21-31

DISTRIBUTION OF PRESSURE-FIELD COUPLING MOMENTS IN STANDARD LAYER OF ATMOSPHERE N64-29669 21-21

PRESSURE DISTRIBUTION AROUND CYLINDER SIMULATING HIGH SPEED VEHICLE WITHIN TUBE
TR-AE-6402 N64-30404 22-02

SUPERCAVITATING HYDROFOILS - CASCADE FLOW, CONVECTIVE HEAT TRANSFER, WALL EFFECTS, AND PRESSURE DISTRIBUTION N64-31429 23-11

HYDROFOIL PROFILE CAVITATION TESTS TO ACCELERATE FLOW CASCADE
REPT.-142 N64-31431 23-11

SUPERCAVITATING FLOW THROUGH ARBITRARY FORM HYDROFOIL
REPT.-146 N64-31435 23-11

TWO-DIMENSIONAL FLOW THEORY THROUGH ARBITRARY PROFILE BEND
REPT.-147 N64-31436 23-11

SECOND-ORDER FORCES AND PRESSURE DISTRIBUTIONS ON THREE-DIMENSIONAL BODIES BY REVERSE-FLOW INTEGRAL METHOD
CR-12 N64-32814 24-02

PRESSURE EFFECT
INSTABILITY OF ORTHOTROPIC CIRCULAR CYLINDRICAL SHELL SUBJECTED TO PRESSURE & AXIAL LOAD - CLAMPED AND SIMPLY SUPPORTED EDGE CONDITIONS
NASA-CR-52881 N64-11335 02-11

EFFECT OF DIFFERENTIAL PRESSURE, THERMAL STRESS, & BUCKLING ON FLUTTER OF PANELS WITH LENGTH-WIDTH RATIO OF TWO
NASA-TN-D-2047 N64-11901 03-11

TEMPERATURE AND PRESSURE EFFECT ON CHROMIUM IONS IN RUBY AND ALEXANDRITE AND NEODYMIUM IONS IN HYDRATE OF PRASEODYMIUM NEODYMIUM NITRATE
E-T-G-63-9 N64-12200 03-25

UNSTEADY PRESSURES ON CONE-CYLINDER BODIES AT TRANSONIC SPEEDS
AEDC-TDR-63-204 N64-12302 03-11

THERMOCONDUCTIVITY OF GASES & LIQUIDS OVER RANGE OF TEMPERATURES AND PRESSURES - SQUID PROJECT N64-13482 05-24

PRESSURE COMPOSITION MEASUREMENTS AND PHASE DIAGRAM FOR BERYLLIUM-BORON-OXYGEN & ALUMINUM-BORON-OXYGEN SYSTEMS

QR-5 N64-14171 06-19

ULTRAHIGH PRESSURE EFFECT ON STEEL, ATOMIC OXYGEN IN UPPER ATMOSPHERE, AND SOUNDING ROCKET STUDIES
FTD-TT-63-674/1 N64-16960 09-23

THERMOMECHANICAL PROCEDURE OF PRESSURE WORKING HIGH MELTING HEAT RESISTANT MOLYBDENUM & CHROMIUM
N64-17081 09-17

PLASTIC STABILITY OF SIMPLY SUPPORTED SPHERICAL PLATES UNDER EXTERNAL PRESSURE
NASA-CR-53358 N64-17821 09-33

STRESSED AND DEFORMED STATE OF STIFFENED CIRCULAR CYLINDRICAL SHELL ACTED UPON BY TRANSVERSE PRESSURE AND UNIFORM AXIAL LOADS
NASA-TT-F-194 N64-17830 09-33

EFFECT OF DYNAMIC & STATIC PRESSURE ON DENSITY OF POWDER MIXTURE OF IRON, LITHIUM, NICKEL, & ZINC OXIDES
ERR-FW-212 N64-18947 11-17

POST-BUCKLING BEHAVIOR OF CYLINDRICAL SHELLS - AXIAL COMPRESSION AND EXTERNAL PRESSURE EFFECTS
NASA-TT-F-90 N64-18950 11-33

FIRST-STAGE DENSIFICATION OF CALCIUM FLUORIDE POWDER UNDER HIGH PRESSURE AND FIXED TEMPERATURE
UCRL-11214 N64-18986 11-19

EFFECTS OF ISOSTATIC PRESSURE BAKING PROCESS ON GRAPHITIZED MATERIALS
AD-437661 N64-20080 13-19

EFFECTS OF AMBIENT PRESSURE ON TOLERANCE OF MICE TO AIR BLAST
DASA-1483 N64-21078 14-16

VACANCY FORMATION IN GOLD AT HIGH PRESSURE WITH RESISTIVE HEATING
NASA-TN-D-2371 N64-24821 17-25

SNAP BUCKLING OF CIRCULAR BEAMS WITH SMALL CURVATURE UNDER EXTERNAL PRESSURE
REPT.-382 N64-24918 17-33

EFFECT OF HIGH PRESSURE ON FLOW IN REFLECTED SHOCK TUNNEL
NPL-AERO-1072 N64-25174 17-10

PRESSURE EFFECTS ON OPERATION CHARACTERISTICS OF AEROSOL SPECTROMETER
USAELRDL-TR-2456 N64-25227 17-15

HIGH PRESSURE MELTING OF METALS
AD-600902 N64-25371 17-23

LOW PRESSURE EFFECT ON OXIDATION PROTECTION OF SILICIDE COATINGS ON MOLYBDENUM AND COATING OF MOLYBDENUM COMPONENTS N64-27007 19-17

FREQUENCY AND PRESSURE EFFECTS IN PANEL FLUTTER OF CYLINDRICAL SHELLS
AS-64-6 N64-28558 20-33

PRESSURE EFFECT ON METALLURGICAL PHENOMENA - TRANSFORMATIONS IN THALLIUM ALLOY SYSTEMS
NASA-CR-58492 N64-28829 20-18

PRESSURE EFFECTS ON INFRARED SPECTRA OF HYDROGEN BONDED SOLIDS N64-29344 21-25

IMPROVEMENT OF SHORT ARC WIND TUNNEL BY ROTATING ARC IN HIGH PRESSURE CHAMBER
NASA-TT-F-9079 N64-31564 23-10

PRESSURE EFFECT ON DUCTILITY OF METALS DURING HYDRODYNAMIC COMPRESSIVE FORGING
NL-TDR-64-240 N64-31894 23-17

OPTIMUM CONSTRUCTION OF ORTHOTROPIC REINFORCED PLASTIC CYLINDERS SUBJECTED TO HIGH EXTERNAL PRESSURE
SM-44594 N64-32157 23-33

ATMOSPHERIC TURBULENT PRESSURE CORRELATION OF MULTIPORT MICROPHONES N64-32256 23-08

BIOLOGICAL EFFECT OF HIGH BLAST-FREE PRESSURE ON ALBINO RATS
DVL-359 N64-32347 23-16

HIGH PRESSURE RESEARCH ON ORGANIC FLUOROCARBON AND INORGANIC SYNTHESIS IN BORON-PHOSPHORUS-NITROGEN-CARBON SYSTEM
AROD-3177-3 N64-32369 23-07

TURBULENT HEAT TRANSFER, LEAKAGE, AND PRESSURE TESTS ON X-20 AIRCRAFT IN HYPERSONIC SHOCK TUNNEL
D2-80910 N64-33574 24-13

DYNAMICS OF ELASTIC CYLINDRICAL SHELL UNDER IMPULSIVE PRESSURE
TDR-469/S5810-12/-1 N64-33797 24-33

PRESSURE FIELD
FORECASTING ATMOSPHERIC PRESSURE FIELDS USING HYDRODYNAMIC EQUATIONS
JPRS-22648 N64-12903 04-21

WALL PRESSURE FLUCTUATIONS IN TURBULENT BOUNDARY LAYER & RESPONSE OF STRUCTURES TO RANDOM PRESSURE FIELDS
AASU-243 N64-13069 04-01

HYDRODYNAMIC PRESSURE FIELD FORECASTING AT ATMOSPHERIC MIDLEVEL FOR ENTIRE EARTH
JPRS-23108 N64-14535 06-21

BALANCE OF INITIAL WIND AND PRESSURE FIELD DATA FOR TWO-LAYER ATMOSPHERE MODEL
AFCRL-64-506 N64-26875 18-21

PRESSURE FIELD INDUCED IN ACOUSTIC FLUID BY HARMONIC EXCITATION OF SUBMERGED CYLINDRICAL SHELL OF FINITE LENGTH
TR-3 N64-27787 19-23

PRESSURE FIELD DETERMINATION DURING DIFFRACTION ABOUT TRUNCATED WEDGE ZONE N64-28497 20-33

STRUCTURE OF TURBULENT PRESSURE FIELD IN BOUNDARY LAYER FLOWS N64-32792 24-11

PRESSURE GAUGE
SA IONIZATION GAUGE
CALIBRATION AND ANALYSIS OF RECORDED SHOCK TUNNEL DATA FROM PIEZOELECTRIC PRESSURE GAUGES
RTD-TDR-63-3073 N64-13308 04-15

PRESSURE GAUGE WITH ONE-TENTH MICROSECOND RISETIME FOR SHOCK WAVE REFLECTION STUDIES
N64-21374 14-15

HIGH IMPEDANCE CATHODE FOLLOWERS FOR PIEZOELECTRIC PRESSURE GAUGE RECORDING
BRL-1474 N64-22523 15-09

SPINNING DETONATION STUDY WITH PIEZOELECTRIC GAUGES - STRUCTURE OF BREAKS N64-23686 16-13

CALIBRATION OF QUICK PRESSURE-RELEASE MECHANISM WITH PIEZOELECTRIC PRESSURE GAUGES FOR NUCLEAR REACTOR SAFETY DEVICE
NOLTR-63-134 N64-25377 17-09

HIGH FREQUENCY, CABLE-DRIVING AMPLIFIER FOR PIEZOELECTRIC PRESSURE GUAGE IN SEVERE NOISE ENVIRONMENT
GAMD-4671 N64-31294 22-09

PRESSURE GRADIENT
SEPARATION OF GASEOUS HYDROGEN-ARGON, HYDROGEN-KRYPTON AND HELIUM-KRYPTON IN POROUS BARIUM FERRITE WITHIN PRESSURE AND TEMPERATURE GRADIENT
JPRS-18180 N64-10571 01-23

PRESSURE LOSSES IN SCALE MODELS OF U-BENDS & Y-JUNCTIONS OF AIR RECEIVER SYSTEM OF WIND TUNNELS
TN-AE-15-63 N64-13331 04-11

BOUNDARY LAYER TRANSITION - FREE STREAM TURBULENCE AND PRESSURE GRADIENT EFFECTS
SID-63-390 N64-16839 08-11

VELOCITY VARIATION ACROSS MIXING ZONE BETWEEN TWO STREAMS OF DIFFERENT VELOCITY IN ARBITRARY

PRESSURE GRADIENT - INCOMPRESSIBLE SHEAR LAYER
MD-9 N64-17855 10-11

COMPRESSIBLE LAMINAR BOUNDARY LAYER IN PRESSURE GRADIENT WITH SUCTION
PIBAL-807 N64-19141 11-11

PRESSURE DROP AND VIBRATION CHARACTERISTICS OF EIGHT-ROD URANIUM CARBIDE FUEL ELEMENT OF HALLAM NUCLEAR POWER FACILITY /HNPF/
NAA-SR-7475 N64-20668 13-23

HIGH SPEED CONDENSING VAPOR FLOW PRESSURE DROP DETERMINATION AS FUNCTION OF HEAT TRANSFER
NASA-CR-56238 N64-22478 15-13

PRESSURE DROP IN FLEXIBLE METAL HOSES, BELLOWS AND GIMBAL JOINTS - ANNOTATED BIBLIOGRAPHY
NASA-CR-56540 N64-24109 16-17

PRESSURE GRADIENT EFFECTS ON NONEQUILIBRIUM LAMINAR AND TURBULENT FAR WAKE FLOW PROPERTIES
DAMP-TM-63-13 N64-24574 17-11

PRESSURE GRADIENT EFFECTS ON TURBULENT FLOW NEAR SMOOTH WALL
FLD-14 N64-24992 17-11

FORCED-CONVECTION BOILING POTASSIUM HEAT TRANSFER AND PRESSURE DROP
PWAC-429 N64-26060 18-13

TURBULENT BOUNDARY LAYER BEHAVIOR IN ADVERSE PRESSURE GRADIENTS
REPT.-73 N64-26644 18-11

PRESSURE & DENSITY SCALE HEIGHT & GRADIENTS DEFINING ATMOSPHERIC MODELS
GCA-TR-64-6-A N64-26951 18-21

PRESSURE DROP AND FLOW VELOCITY DISTRIBUTION IN PIPES WITH REGULAR PATTERN OF ROUGHNESS IN TURBULENT FLOW
RSIC-220 N64-27053 19-11

PRESSURE DROP DATA OBTAINED FOR HORIZONTAL PIPE AND PIPING COMPONENTS
HW-80970, REV. 1 N64-27655 19-11

GROWTH OF LAMINAR BOUNDARY LAYER WITH ZERO PRESSURE GRADIENT
TFM-8151-008 N64-29750 21-11

SENSOR FOR LARGE HIGH PRESSURE DROPS
N64-31866 23-15

EFFECTS OF DEPOSITS IN TUBES ON HYDRAULIC PRESSURE DROP
RSIC-269 N64-32496 23-11

PRESSURE DROP EQUATIONS FOR BOILER AND CONDENSER OF SPACE POWER UNIT REACTOR IN NUCLEAR AUXILIARY POWER SYSTEM
L-9389 N64-32509 23-06

VERTICAL PROPAGATION OF PRESSURE CHANGES AND DIURNAL VARIATION OF SURFACE WIND IN GREENLAND
IR-2 N64-32593 23-21

CONDENSING PRESSURE DROP PREDICTION BY IMPROVED LOCKHART-MARTINELLI METHOD
NASA-CR-116 N64-32828 24-11

PRESSURE GRADIENT AND REYNOLDS NUMBER EFFECTS ON BOUNDARY LAYER TRANSITION IN HYPERSONIC FLOW
RAE-TRANS.-1073 N64-33439 24-11

PRESSURE MEASUREMENT
SA IMPEDANCE MEASUREMENT
PRESSURE MEASUREMENTS AT SUPERSONIC SPEEDS ON UNCAMBERED CONICAL WINGS WITH SHARP LEADING EDGES
ARC-CP-641 N64-10161 01-03

AVERAGE PRESSURE MEASUREMENT IN PULSATING GAS STREAMS
DFL-209 N64-10234 01-10

EXTENSION OF LIMITS OF MCLEOD PRESSURE GAUGES BY MULTIPLE COMPRESSION
NASA-CR-52877 N64-11328 02-15

DIFFERENCE IN PRESSURE MEASUREMENTS OF HIGH AND LOW CONDUCTANCE ION GAUGES IN ULTRAHIGH VACUUM SYSTEM
MATT-212 N64-12063 03-15

ATMOSPHERIC REFRACTIVITY COMPUTATION USING SKEW TEMPERATURE-LOG PRESSURE DIAGRAM
AD-422637 N64-12244 03-21

IN VIVO METHOD FOR QUANTITATIVE ESTIMATION OF TOTAL GAS PRESSURE IN MAMMALIAN TISSUE
CARI-63-11 N64-12346 03-16

HYDROBAROPHONE FOR MEASURING INCREMENTAL PRESSURE FLUCTUATION
NOLTR-62-174 N64-14300 06-15

TORSION-EFFUSION APPARATUS FOR MEASURING VAPOR PRESSURE
REPT.-63-3891 N64-14645 06-23

PRESSURE MEASUREMENTS IN TRANSITION AND FREE MOLECULAR FLOWS USING ORIFICE PROBES
ARL-63-222 N64-15082 07-23

MEASUREMENTS OF NEAR FIELD PRESSURE OF SUBSONIC JETS
AGARD-449 N64-16294 08-23

DIFFERENTIAL BAROGRAPH FOR MEASURING CONTINUOUS CHANGES IN ATMOSPHERIC PRESSURE
FTD-TT-63-535/1&2&4 N64-16482 08-15

PRESSURE & HEAT TRANSFER MEASUREMENTS FOR HYPERSONIC FLOW OVER FLAT PLATES
ASD-TDR-63-679, PT. 3 N64-16775 08-02

TECHNIQUES FOR MEASURING INTRAPLEURAL AND PERICARDIAL PRESSURES IN DOGS
AMRL-TDR-63-107 N64-16809 08-16

PRESSURE AND TEMPERATURE MEASUREMENT FOR SUDDEN EXPANSION OF PLANE OR AXISYMMETRIC, SONIC OR SUPERSONIC FLOW N64-17185 09-11

PRESSURE MEASUREMENTS FOR HYPERSONIC FLOWS OVER BLUNT PYRAMID CONFIGURATION COMPOSED OF SWEPTBACK DELTA WING & TWO DIHEDRAL SURFACES
RTD-TDR-63-4239 N64-17525 09-02

PRESSURE & HEAT TRANSFER DATA FOR HYPERSONIC FLOW OVER BLUNT PYRAMID CONFIGURATION COMPOSED OF SWEPTBACK DELTA WING & TWO DIHEDRAL SURFACES
FDL-TDR-64-2, PT. 1 N64-17526 09-02

BAROMETRIC ALTIMETERS AND PRESSURE-HEAD SPEED INDICATORS N64-17543 09-13

LABORATORY RESEARCH IN LOW PRESSURE MEASUREMENT & AERONOMY RESEARCH IN UPPER ATMOSPHERE
NASA-CR-53198 N64-17582 09-15

PRESSURE DATA FOR MACH 5 FLOWS OVER WINGED REENTRY CONFIGURATION COMPOSED OF DELTA WING MOUNTED, CONICALLY CAPPED CYLINDRICAL CABIN
RTD-TDR-63-4179, PT. 2 N64-17654 09-04

UTILIZING A TRANSDUCER & TENSOMETER TO MEASURE PRESSURES OF JETSTREAMS
JPRS-23920 N64-17713 09-15

TRANSONIC PRESSURE TUNNEL TEST OF AERODYNAMIC CHARACTERISTICS AND SURFACE PRESSURE MEASUREMENTS FOR MODEL OF RAM B LAUNCH VEHICLE
NASA-TN-D-2204 N64-17747 09-31

PRESSURE MEASUREMENTS FOR HYPERSONIC FLOW OVER WINGED REENTRY CONFIGURATION COMPOSED OF CABIN ON SWEPTBACK DELTA WING
RTD-TDR-63-4179, PT. 1 N64-18025 10-30

PRESSURE PROBES, DRAG MEASUREMENT DEVICES, AND DUST COLLECTORS TO MEASURE DYNAMIC AND SURFACE PRESSURE ON CYLINDRICAL BODIES
DASA-1433 N64-18846 11-15

STATIC AND DYNAMIC PRESSURE MEASUREMENTS OF GAS

COMBUSTION CHAMBERS
FTD-TT-63-23/1&2 N64-18997 11-26

MEASUREMENTS OF FLUCTUATING STATIC AND STAGNATION POINT PRESSURES IN SUBSONIC TURBULENT WAKES
DTMB-1779 N64-19203 11-15

MEASUREMENT OF QUICKLY-CHANGEABLE PRESSURES IN INTERNAL COMBUSTION ENGINE - CHARACTERISTICS OF ELECTRIC PRESSURE ABSORBERS UNDER STATIC LOAD
DFL-194 N64-21706 15-27

AUSCULTATORY VERSUS DIRECT PRESSURE MEASUREMENTS FOR NEWTONIAN FLUIDS AND BLOOD IN SIMULATED ARTERIES
NASA-CR-56470 N64-22425 15-16

MCLEOD MANOMETER FOR DETERMINATION OF ABSOLUTE GAS DENSITIES IN VACUUM - PRESSURE MEASUREMENT
RSIC-153 N64-22725 15-15

SUPERSONIC WIND TUNNEL TESTING OF PRESSURE FIELD AROUND AIRCRAFT
DTMB-AERO-1063 N64-22922 16-02

BASE PRESSURE AND TEMPERATURE MEASUREMENTS FOR SOLIDS OF REVOLUTION IN SUPERSONIC GAS FLOW
FTD-TT-63-1146/1&2 N64-23441 16-11

MEASURING LOW ABSOLUTE PRESSURE USING MANOMETER
FTD-TT-64-81/1&2&4 N64-25460 17-11

HIGH FREQUENCY PRESSURE PHENOMENA ASSOCIATED WITH ROCKET ENGINES
NASA-CR-56973 N64-25774 17-27

PROPERTIES OF COHENITE FOR EVALUATION AS PRESSURE INDICATOR IN IRON METORITES
NASA-RP-246 N64-25973 18-29

DETERMINATION OF POSITION ERROR AT LOW ALTITUDES OF AIRSPEED AND STATIC PRESSURE MEASUREMENT SYSTEMS OF AIRCRAFT
RD-64-37 N64-26306 18-15

CALIBRATION OF CONE TO MEASURE MACH NUMBER, TOTAL PRESSURE, AND FLOW ANGLES AT SUPERSONIC SPEEDS
ARC-CP-628 N64-28070 20-02

MEASUREMENT OF PRESSURES AT ONSET AND TERMINATION OF CAVITATION USING HIGH SPEED RECIRCULATING WATER TUNNEL
ASME PAPER-63-AHGT-20 N64-28235 20-11

HEAT TRANSFER AND PRESSURE MEASUREMENTS DETERMINED ON DELTA WINGS WITH SHARP AND BLUNT NOSES AT SUPERSONIC SPEEDS
NASA-TN-D-2387 N64-28324 20-03

PRESSURE GAUGES, POTENTIOMETERS, & STRAIN GAUGES FOR COMBUSTION CHAMBER ANALYSIS
N64-28585 20-26

PRESSURE TRANSDUCERS AND MEASUREMENT SYSTEMS FOR CLOSED CYCLE LIQUID METAL FACILITIES
NASA-CR-54140 N64-28736 20-15

HIGH PRECISION PRESSURE MEASUREMENT OVER WIDE RANGE BY MEANS OF SOUND VELOCITY MEASUREMENT
ESL-QR-203 N64-29644 21-15

ELECTROMECHANICAL TRANSDUCER SYSTEMS FOR TRANSIENT PRESSURE MEASUREMENTS
WAPD-TM-343 N64-30127 21-15

PRESSURE-TEMPERATURE DIAGRAM OF SOLID THALLIUM
N64-30799 22-25

PRESSURE SENSOR FOR DYNAMIC PRESSURE MEASUREMENT IN NUCLEAR REACTOR
IDO-16999 N64-30807 22-15

ORIFICE EFFECT ON PRESSURE MEASUREMENT IN RAREFIED GAS FLOW
AEDC-TDR-64-175 N64-31066 22-11

PRESSURE TRANSDUCER FOR SHOCK WAVE PROFILE MEASUREMENT
PR-34 N64-31096 22-15

TEMPERATURE, PRESSURE, DENSITY, AND WIND MEASUREMENTS FROM RECORDED EXPLOSION TIMES AND SOUND ARRIVALS DURING ROCKET GRENADE EXPERIMENTS
NASA-TR-R-211 N64-31451 23-21

RECOMMENDATIONS OF EQUIPMENT AND MAINTENANCE STANDARDS FOR USE IN PRESSURE-MEASURING ALTIMETERS
RD-64-119 N64-32803 24-15

SPECTROSCOPIC METHOD FOR TEMPERATURE OR PRESSURE MEASUREMENT IN LOW TEMPERATURE PLASMAS
NASA-CR-58969 N64-33202 24-24

PRESSURE AND HEAT TRANSFER MEASUREMENTS FOR MACH 21 FLOWS OVER BLUNT PYRAMIDAL BODY WITH AERODYNAMIC CONTROLS
FDL-TDR-64-120 N64-33351 24-02

PRESSURE AND HEAT TRANSFER MEASUREMENTS FOR HYPERSONIC FLOW OVER EXPANSION CORNERS AND AHEAD OF RAMPS
ASD-TDR-63-679, PT. IV N64-33529 24-02

HEAT TRANSFER AND PRESSURE MEASUREMENTS ON FIRE PROJECT REENTRY MODEL IN SUPERSONIC WIND TUNNEL
NASA-TN-D-2000 N64-34017 24-13

PRESSURE RATIO
PREDICTION METHOD FOR STARTING PRESSURE-RATIO FOR ZERO-SECONDARY-FLOW EJECTOR SYSTEM WITH SECOND THROAT DIFFUSER
AEDC-TDR-63-249 N64-13668 05-02

PRESSURE REGULATOR
QUALIFICATION TESTS FOR PRESSURE SWITCH
AD-428559 N64-14792 06-15

ADDITION OF BACK PRESSURE REGULATOR AND THREE-WAY VALVE FOR MODIFICATION OF DEADWEIGHT BALANCE SYSTEM
NASA-CR-59232 N64-33684 24-10

PRESSURE TRANSDUCER
STATHAM DIFFERENTIAL PRESSURE TRANSDUCER - WEAPON SYSTEM 133A
AD-421712 N64-12171 03-15

PRESSURE TRANSDUCER FOR MEASURING SHOCK WAVE PROFILES
DASA-1414 N64-14033 05-15

QUALIFICATION TESTING OF STATHAM ABSOLUTE PRESSURE TRANSDUCER FOR WEAPON SYSTEM 133A
AD-426920 N64-14096 05-15

AIR LOAD MEASUREMENTS DURING FLIGHT USING PRESSURE TRANSDUCER MOUNTED ON ROTOR BLADE SURFACE
REPT.-299-099-200 N64-14761 06-15

FIDELITY OF DYNAMIC RESPONSES OF PRESSURE TRANSDUCERS
NASA-CR-55320 N64-14901 06-15

DYNAMIC CALIBRATION OF PRESSURE TRANSDUCERS
NBS-MONOGRAPH-67 N64-16236 08-15

TYPES AND CHARACTERISTICS OF PRESSURE TRANSDUCERS AND CONCEPTS OF CALIBRATION AND ANALYSIS
N64-16237 08-15

EXTERNAL, ARTERIAL BLOOD PRESSURE TRANSDUCER
NASA-CR-53362 N64-17815 09-15

PRESSURE TRANSDUCERS AND MEASUREMENT SYSTEMS FOR CLOSED CYCLE LIQUID METAL FACILITIES
NASA-CR-54140 N64-28736 20-15

PRESSURE TRANSDUCER USING LINEAR DIFFERENTIAL TRANSFORMER
TN-SE-3-63 N64-29389 21-15

TRANSDUCERS FOR TRANSIENT HIGH PRESSURE MEASUREMENTS - SHOCK IMPEDANCE MATCHING OF PIEZORESISTIVE GAUGE INSULATOR TO SALT ENVIRONMENT
AD-442689 N64-30204 21-15

PRESSURE TRANSDUCER FOR SHOCK WAVE PROFILE MEASUREMENT
PR-34 N64-31096 22-15

PRESSURE TRANSDUCER FOR RECORDING OSCILLOGRAPH AND PLETHYSMOGRAPHY OF VASCULAR SYSTEM RESPONSE TO COLD STIMULUS IN NOSE
FTD-TT-63-849/1&2 N64-31103 22-16

PRESSURE TRANSDUCER FOR OPTICAL RECORDING OSCILLOGRAPH N64-31105 22-16

PRESSURE SENSITIVITY OF THREE PIEZOELECTRIC ACCELEROMETERS
DTMB-1764 N64-32105 23-15

PRESSURE TRANSDUCERS FOR LIQUID METAL SYSTEMS
NASA-CR-54193 N64-33376 24-15

PRESSURE TUBE
FLOW DIRECTION AND PITOT PRESSURE SENSOR
NASA-CR-52286 N64-10098 01-06

MECHANICAL PROPERTIES OF AISI TYPE 347 STAINLESS STEEL AND REACTOR PRESSURE TUBES SUBJECTED TO FAST NEUTRON IRRADIATION
BMI-1657 N64-22102 15-18

ZIRCALOY-2 PRESSURE TUBES FOR NEUTRON-REACTOR
HW-80566 N64-25652 17-23

EFFECT OF SIMULATED IN-REACTOR ANNEALING ON MECHANICAL PROPERTIES OF IRRADIATED STAINLESS STEEL PRESSURE TUBE
BMI-1683 N64-27969 20-18

DEFLECTION CURVES DEVELOPED FOR CIRCULAR CROSS SECTION PRESSURIZED TUBE UNDER BENDING AND COMPRESSION
REPT.-6-90-63-114 N64-28615 20-33

RADIATION EFFECT ON ZIRCALOY-2 PRESSURE TUBES AND FUEL CLADDING IN REACTORS
AECL-2021 N64-30631 22-18

ZIRCALOY 2, ZIRCONIUM, AND NIOBIUM ALLOYS FOR USE IN PRESSURE TUBES OF POWER REACTORS
AECL-2022 N64-33136 24-18

PRESSURE VESSEL
STRUCTURAL DESIGN METHODS FOR GLASS FIBER PRESSURE VESSELS
ENG. PAPER-1415 N64-10004 01-34

MERIDIONAL CONTOURS OF TOROIDAL SHELLS FOR ELIMINATION OF BUCKLING FAILURE IN TOROIDAL PRESSURE VESSELS
ERR-AN-174 N64-10345 01-34

AIR RECEIVERS FOR PRESSURE VESSEL AIR STORAGE SYSTEM
NAL-TN-AE-17-63 N64-11409 02-17

STRUCTURAL PROPERTIES OF FIBERGLAS FILAMENT WOUND PRESSURE VESSELS AT CRYOGENIC TEMPERATURES
NASA-CR-55023 N64-11810 03-19

NEUTRON EMBRITTLEMENT OF REACTOR PRESSURE VESSEL STEEL
NRL-5984 N64-12260 03-18

FILAMENT WOUND PRESSURE VESSEL STRUCTURAL PERFORMANCE AND RELIABILITY - POLARIS PROGRAM
REPT.-0627-1-3 N64-12334 03-33

HYDROSTATIC TESTING OF STRUCTURAL STABILITY OF FILAMENT WOUND SPHERICAL CHAMBERS - POLARIS MISSILE PROJECT
AD-424062 N64-12339 03-33

BEHAVIOR OF STEEL PRESSURE VESSELS UNDER BIAXIAL STRESS IN PRESENCE OF SURFACE CRACKS
RRL-TM-242 N64-12609 04-33

TOOL, MARAGING, AND STAINLESS STEELS FABRICATED INTO BIAXIAL PRESSURE VESSELS
AD-402636 N64-13074 04-17

EVALUATION OF HIGH-STRENGTH, LIGHTWEIGHT LAMINATED PRESSURE VESSELS OF LAP-JOINT CONSTRUCTION
WAL-TR-766.2/3-4 N64-13241 04-33

LOW CYCLE FATIGUE FAILURE OF PRESSURE VESSELS -

APPLICATION OF FRACTURE MECHANICS DATA
AD-422404 N64-13606 05-18

LABORATORY FRACTURE TEST CRITERIA - APPLICATION TO PRESSURE VESSEL DESIGN
NRL-6030 N64-13840 05-34

EFFECT OF REPEATED LOADING ON FILAMENT WOUND INTERNAL PRESSURE VESSELS
TECH. MEMO-229 N64-13893 05-33

HIGH STRENGTH, LIGHTWEIGHT, LAMINATED, LAP-JOINT PRESSURE VESSELS FOR ROCKET MOTOR CASES
WAL-TR-766.2/3-5 N64-14640 06-34

PRESTRESSING A TWO-LAYER STRUCTURALLY DESIGNED PRESSURE VESSEL BY CONTROLLED YIELDING OF INNER LAYER
ORNL-3546 N64-14720 06-33

METALLURGICAL ANALYSIS AND STRUCTURAL REPAIR OF 120-INCH DIAMETER PRESSURE VESSEL
LPC-609-P-8 N64-14784 06-18

SOLID GLASS AND CERAMIC EXTERNAL PRESSURE VESSELS
AD-428905 N64-14968 06-33

PRESSURE VESSEL REPAIR IN ARMY GAS-COOLED REACTOR SYSTEM
AGN-TM-405 N64-15199 07-17

PRESSURE PULSE PHENOMENA, PRESSURE VESSEL DESIGN, AND ELECTROSPARK EXTRUDING
RAC-2027 N64-15500 07-34

HYDROSTATIC TESTING FOR COMPARATIVE STUDY BETWEEN CHAMBER WINDING PATTERNS AND CHAMBER BEHAVIOR - FILAMENT WOUND PRESSURE VESSELS
REPT.-0627-I-4 N64-15696 07-34

EXTERNAL-LOAD TEST OF WELDED JOINTS BETWEEN CYLINDRICAL PRESSURE VESSELS N64-16857 08-33

DETERMINING STRESS DISTRIBUTION IN THIN WALLED CYLINDRICAL AND SPHERICAL PRESSURE VESSELS WITH CIRCULAR NOZZLES
NASA-CR-53580 N64-18445 10-33

IMPROVED FILAMENT-WOUND CONSTRUCTION FOR CYLINDRICAL PRESSURE VESSELS - STRESS ANALYSIS
ML-TDR-64-43, VOL. I N64-18870 11-33

DATA FOR PERFORMING STRESS ANALYSES & DETERMINING DESIGN PARAMETERS FOR FILAMENT-WOUND CYLINDRICAL PRESSURE VESSELS
REPT.-2784 N64-19065 11-33

STRUCTURAL PERFORMANCE AND RELIABILITY OF FILAMENT WOUND PRESSURE VESSELS
REPT.-0627-I-5 N64-19413 12-34

STRUCTURAL PROPERTIES OF FIBERGLASS FILAMENT WOUND PRESSURE VESSELS AT CRYOGENIC TEMPERATURES
NASA-CR-53826 N64-19619 12-33

THIN FLEXIBLE PRESSURE VESSELS - STRESS EQUATIONS FOR AXISYMMETRIC BALLOON AND DETERMINATION OF SHAPE OF FREE BALLOON
AFCRL-63-951 N64-20122 13-04

CIRCUMFERENTIAL STRESSES IN PRESSURE VESSEL SHELLS OF REVOLUTION
ASME-PAPER-62-PET-4 N64-20675 13-33

HYDROBURST TESTING OF LIGHTWEIGHT PRESSURE VESSELS MADE OF LAMINATED MARAGING STEEL
N64-24368 17-33

HIGH PRESSURE NONWELDED HULLS FOR DEPTH SUBMERSION
DTMB-1762 N64-25529 17-17

CLOSURES AND PENETRATIONS FOR PRESSURE VESSELS OF COMPOSITE CONSTRUCTION
DTMB-1732 N64-26066 18-11

DESIGN OF PRESSURE VESSEL, PUMPING SYSTEM, AND WORKING FLUIDS FOR ELECTROSPARK EXTRUSION WITH CAPACITOR DISCHARGE ENERGY

RAC-2491 N64-26204 18-17

BUCKLING OF TORISPHERICAL SHELLS UNDER INTERNAL PRESSURE - END CLOSURES FOR PRESSURE VESSELS
AMRA-TR-64-10 N64-26942 18-33

METASTABLE AUSTENITIC FORMING OF HIGH STRENGTH PRESSURE VESSELS
SAR-3 N64-27236 19-17

CYLINDRICAL FILAMENT WOUND PRESSURE VESSELS REDESIGNED WITH ISOTENSOID DOME ENDS TO REDUCE WEIGHT AND STRESS FAILURE
AD-600215 N64-29614 21-34

THREE DIMENSIONAL PHOTOELASTIC MEASUREMENT OF THERMAL STRESSES IN MODELS OF PRESSURE VESSEL
AD-447818 N64-32123 23-33

TEST PROCEDURES, FRACTURE INITIATION, FABRICATION, AND MATERIAL CONSIDERATIONS OF HIGH PRESSURE VESSELS
RSIC-173 N64-32616 23-17

RADIATION-INDUCED INCREASE IN DUCTILE-BRITTLE TRANSITION TEMPERATURE OF SIMULATED PRESSURE VESSEL WALL OF STEEL REACTORS
NRL-6151 N64-32670 23-18

QUARTZ GLASS PRESSURE VESSELS FOR HYDROTHERMAL EXPERIMENTS IN SILICA-SATURATED SYSTEMS
JPL-TR-32-649 N64-33605 24-10

STRUCTURAL RELIABILITY OF FILAMENT WOUND PRESSURE VESSELS - WINDING PATTERNS AND DEFORMATION CONTROL
REPT.-0627-I-F N64-33741 24-33

PRESSURE-VOLUME DIAGRAM /BIOL/
MAXIMUM PRESSURE-VOLUME RELATIONSHIPS IN HUMAN RESPIRATORY SYSTEM
SAM-TDR-64-21 N64-25338 17-16

PRESSURE WELDING
ANNOTATED BIBLIOGRAPHY OF DIFFUSION BONDING AND HOT PRESSURE WELDING
SB-63-44 N64-12673 04-18

HERMETIC SEALING OF PROPELLANT CONTAINERS BY PRESSURE WELDING
TM-1373 N64-21782 15-17

PRESSURE WELD CARTRIDGE SEAL FOR PROPELLANT ACTUATED DEVICES IN FLIGHT VEHICLES
R-1666 N64-29399 21-17

PRESSURIZATION
SA FUEL TANK PRESSURIZATION SYSTEM
SA PRESSURIZED CABIN
SA PRESSURIZED SUIT
LINEAR BENDING ANALYSIS OF PRESSURIZED MULTICELL SHELL STRUCTURE
GD/A-63-0968 N64-10083 01-34

EMERGENCY LIFE SUSTAINING SYSTEM FOR USE DURING FAILURE OF NORMAL PRESSURIZATION IN SPACECRAFT
AMRL-TDR-63-82 N64-12214 03-16

PARAMETERS GOVERNING DESIGN OF PRESSURIZED-GAS SYSTEMS FOR SPACECRAFT
NASA-CR-53393 N64-18107 10-17

LONGITUDINAL OSCILLATION OF ATLAS LAUNCH VEHICLE & RELATION TO TANK PRESSURE REGULATION
GD/A-63-0712 N64-24153 16-31

BREATHING VIBRATIONS OF PRESSURIZED PARTIALLY FILLED TANKS
NASA-CR-58943 N64-33192 24-33

PRESSURIZED CABIN
SA AIRCRAFT CABIN
CF LIFE SUPPORT SYSTEM
SPACE CABIN FOR HOUSING ANIMALS DURING SPACE FLIGHT N64-11689 03-16

SANITARY DEVICES FOR ANIMALS IN SEALED SPACE CABIN N64-11693 03-16

BIOLOGICAL & PHYSIOLOGICAL INVESTIGATIONS CARRIED OUT ON DOGS IN PRESSURIZED SPACE CABIN DURING SPACE FLIGHT N64-11696 03-16

OZONE CONCENTRATIONS IN PRESSURIZED CABINS OF COMMERCIAL JET AIRCRAFT ABOVE 25,000 FEET
FAA-ADS-5 N64-20444 13-21

PRESSURIZED SUIT
SA FLIGHT CLOTHING
SA SPACE SUIT
CF LIFE SUPPORT SYSTEM
VENTILATING AIRFLOW EFFECT ON WATER REQUIREMENTS OF MEN WEARING PARTIALLY AND FULLY DONNED PRESSURE SUITS
SAM-TDR-63-59 N64-12855 04-16

URINE EVACUATING SYSTEM FOR USE IN FULLY PRESSURIZED SUITS
SAM-TDR-64-13 N64-17958 10-16

PRESSURIZED SUITS FOR AIRCRAFT ENVIRONMENT CONTROL
FTD-TT-62-1424/1&3&4 N64-21920 15-14

SPACE SUIT - BREATHING, VENTILATION, PRESSURE AND DECOMPRESSION
FTD-TT-64-134/1&2&4 N64-21973 15-16

X-20 DYNA-SOAR FULL PRESSURE SUIT ASSEMBLY
AMRL-TDR-64-27 N64-26905 18-16

FINGER DEXTERITY OF PRESSURE-SUITED SUBJECTS WITH AND WITHOUT GLOVES
AMRL-TDR-64-41 N64-27444 19-16

PHYSICAL CHARACTERISTICS OF PRESSURIZED SUITS EXPOSED TO SIMULATED DYNA-SOAR MISSION CONDITIONS
AMRL-TDR-64-36 N64-28565 20-16

CREW STATION DESIGN CRITERIA FOR SPACE VEHICLES - PRESSURE SUIT REQUIREMENTS, POTENTIAL HAZARDS, AND IN-FLIGHT MAINTENANCE
SID-64-997 N64-32201 23-32

PRESSURIZED WATER REACTOR
REACTOR TECHNOLOGY - NUCLEAR SAFETY, PRESSURIZED WATER REACTOR, XENON OSCILLATION, MATRIX ALGEBRA, AND AUTORADIOGRAPHY OF URANIUM OXIDE
WAPD-BT-29 N64-11341 02-23

PRESTON TUBE
SKIN FRICTION MEASUREMENTS BY PRESTON TUBE
DRL-513 N64-33652 24-11

PRIMARY COSMIC RADIATION
LUNIK II MEASUREMENTS OF NUCLEAR COMPONENT OF PRIMARY COSMIC RAYS WITH CERENKOV COUNTER N64-11403 02-28

PRIMARY COSMIC RADIATION - COMPOSITION, ENERGY, & ISOTROPY
NRL-5896 N64-14488 06-28

INTENSITIES OF HEAVY NUCLEI IN PRIMARY COSMIC RADIATION
CR-70 N64-18642 11-28

ISOTOPIC COMPOSITION AND ENERGY SPECTRUM OF LOW ENERGY HELIUM NUCLEI IN PRIMARY COSMIC RADIATION
URPA-31 N64-23173 16-28

AZIMUTHAL TELESCOPE FOR INVESTIGATION OF VARIATIONS OF COSMIC RAYS DEPENDENT ON DIRECTION OF PRIMARY RADIATION N64-25930 18-15

DATA REDUCTION AND ANALYSIS FOR HEAVY PRIMARY COSMIC RAY EXPERIMENT IN EXPLORER VII SATELLITE
NASA-CR-58203 N64-30518 22-28

FLUX OBSERVATION OF HEAVY PRIMARY COSMIC RADIATION IN EXPLORER VII SATELLITE-BORNE INSTRUMENTATION N64-30519 22-15

ISOTOPIC COMPOSITION OF LOW ENERGY HYDROGEN NUCLEI IN PRIMARY COSMIC RADIATION
URPA-45 N64-30957 22-28

CERENKOV COUNTER MEASUREMENTS OF PRIMARY COSMIC RADIATION SHOWING EFFECTS OF DECREASING SOLAR

ACTIVITY
NASA-RP-330 N64-31211 22-25

EFFECT OF HIGH ENERGY PRIMARY COSMIC RADIATION ON AIR SHOWERS
AD-442210 N64-32977 24-28

POSITRON-ELECTRON RATIO IN PRIMARY COSMIC RADIATION MEASURED AS FUNCTION OF ENERGY - COSMIC RAY ORIGIN N64-33036 24-28

PRIMER
CF EXPLOSIVE DEVICE
CF FILLER
PRIMER SURFACE COATING EVALUATION
A488 N64-17146 09-19

PHOSPHATE COATINGS ON STEEL AS PAINT UNDERCOATS OR PRIMERS
RIA-TR-63-3893 N64-29244 21-17

PRINCIPLE
S PONTRYAGIN PRINCIPLE
S SAINT VENANT PRINCIPLE

PRINTER
PRINTER PLOTTING SYSTEM CONSISTING OF IBM 7090 & 1401 COMPUTER SUBROUTINES - USERS MANUAL
NASA-TN-D-2174 N64-18728 11-20

PRINTER PLOTTING SYSTEM CONSISTING OF IBM 7090 & 1401 COMPUTER SUBROUTINES - INSTRUCTION MANUAL
NASA-TN-D-2175 N64-18729 11-20

HELIUM-NEON GAS LASER AS LIGHT SOURCE FOR PHOTOGRAPHIC CONTACT PRINTERS
RADC-TDR-64-120 N64-25232 17-15

PRISM
SA QUARTZ
BENDING OF PRISMATIC BEAM UNDER CONDITIONS OF NON-STATIONARY CREEP
RSIC-4 N64-12263 03-33

SLIT FUNCTION OF SMALL PRISM MONOCHROMATOR
GDA-DBE64-013 N64-20134 13-15

STRESS CALCULATION FROM DEFORMATION OF PRISMATIC BAR SUBJECTED TO TWISTING N64-28484 20-33

COLOR DISCRIMINATION WITHOUT CHROMATIC VISION USING PRISM GLASS
REPT.-2 N64-28581 20-16

PROBABILITY
SA DUFFING EQUATION
SA TRANSITION PROBABILITY
FEATURE PROBABILITY AND FEEDBACK LOOP
JPRS-21375 N64-10001 01-09

PREDICTING VERY LOW ELECTROEXPLOSIVE DEVICE FIRING PROBABILITIES BY PROPER SAMPLING, INSTRUMENTATION, AND DATA COLLECTION
NOLTR-63-133 N64-13646 05-26

CANONICAL RELATIONS FOR ERROR PROBABILITIES AND DISTRIBUTION DENSITIES OF BINARY BAYES DETECTORS AND TWO CLASSES OF SIGNALS PLUS NOISE
AFCRL-63-561 N64-14700 06-20

DETERMINATION OF NUMBER OF MEASUREMENTS NEEDED FOR DESIRED ACCURACY
RSIC-113 N64-14963 06-20

DECISION THEORY - MEASUREMENTS OF SUBJECTIVE PROBABILITY AND UTILITY PROBLEMS
ESD-TDR-63-622 N64-16074 07-14

PROBABILITY OF COLLAPSE OF FAIL-SAFE AIRCRAFT STRUCTURES OF 6 PARALLEL ELEMENTS - FUNCTION OF SERVICE LIFE FOR VARIOUS INSPECTION INTERVALS
HU-961 N64-17150 09-09

DISPERSION AND PROBABILITY ANALYSIS FOR MISSILE TRAJECTORIES
AFSWC-TDR-63-66 N64-17473 09-29

CONVERGENCE OF PARTICLE RANDOM DISTRIBUTION IN SPACE ASSOCIATED WITH BRANCHING PROCESS
AD-434059 N64-18383 10-20

PROBABILITY OF PHONONLESS TRANSITION IN CENTERS OF IMPURITY IN CRYSTALS
RSIC-156 N64-20459 13-23

FORMULA FOR RADIUS OF SPHERE CENTERED ABOUT POINT TARGET AND HAVING 50 PERCENT PROBABILITY OF IMPACT
GM-00-6437-00161 N64-21621 15-22

STATISTICAL METHODS FOR FORECASTING OPERATIONAL AIRPORT CEILING AND VISIBILITY CONDITIONS
TR-1 N64-23198 16-20

PROBABILITY NUMBER THEORY
JPRS-25099 N64-23254 16-20

MAXIMUM PROBABILITY OF CHANGE OF SIGNAL EMBEDDED IN INTENSE NOISE, FOR DETECTION AND TRACKING OF SPACECRAFT
D-TDR-64-68 N64-23357 16-08

STATISTICS OF PROBABILISTIC NETWORK - MATHEMATICS
AROD-3298-10 N64-25094 17-20

FRACTURE PROBABILITIES IN NONUNIFORMLY STRESSED BRITTLE MATERIALS
AD-437664 N64-25336 17-33

ESCAPE PROBABILITY APPROXIMATIONS IN LUMPED RESONANCE ABSORBERS
NAA-SR-9744 N64-28129 20-23

PROBABILITY OF ERROR IN AUTOMATIC CONTROL SYSTEMS WITH RANDOM PARAMETERS OF CONTROL N64-30221 22-09

PROBABILITY OF ACCURACY AND RELIABILITY IN AUTOMATIC CONTROL SYSTEMS N64-30226 22-17

PROBABILITY OF DETECTING SIGNALS FROM MISSILE BY RECONNAISSANCE SATELLITE AS FUNCTION OF RECEIVER SENSITIVITY, ANTENNA POLARIZATION, AND MISSILE ORIENTATION
EDL-M403 N64-31155 22-08

PROBABILITY DENSITY
ZERO CROSSING WITH STATIONARY RANDOM PROCESS FOR PROBABILITY DENSITY PROBLEMS
RES. REPT.-63-4 N64-16943 09-28

COMPUTATION OF JOINT PROBABILITY DENSITY FUNCTION OF APPARENT RADIANCES IN SEVERAL SPECTRAL REGIONS
LAS-TR-199-49 N64-16957 09-12

PROBABILITY DENSITY ANALYZER - THEORY AND OPERATION
REPT. 895 N64-20482 13-15

PROBABILITY DENSITY FUNCTION FOR INTERFERENCE FROM RANDOMLY DISTRIBUTED SOURCES N64-22830 16-09

OUTPUT AMPLITUDE PROBABILITY DENSITY FUNCTION OF FILTER EXCITED BY PULSE TRAINS
RR-64-1 N64-25114 17-23

PROBABILITY DENSITIES DEFINED BY ZERO CROSSING POINTS OF ENVELOPE OF SINE WAVE PLUS GAUSSIAN PROCESS
TR-AF-108 N64-26041 18-23

PROBABILITY DENSITY OF PRODUCTS OF NORMAL RANDOM PROCESSES N64-29467 21-09

PROBABILITY DENSITY FOR RADAR CROSS SECTION OF ONE OR MORE RANDOMLY-ORIENTED DIPOLES - ANALYSIS OF RADAR CHAFF
ESD-TDR-64-341 N64-29604 21-08

PROBABILITY DISTRIBUTION
BIASED SAMPLING TEST BY HYPERGEOMETRIC PROBABILITY DISTRIBUTION - NULL HYPOTHESIS
TR-70 N64-13983 05-23

TOPOLOGICAL STRUCTURE OF ORDERED FAMILIES OF DISTRIBUTIONS
MRC-424 N64-18057 10-20

GEOMETRIC PROBABILITY DISTRIBUTIONS

AD-434208 N64-18620 11-20

STATISTICS AND PROBABILITY DISTRIBUTION - MAXIMUM LIKELIHOOD AND LEAST SQUARES THEORY
CERN-64-18 N64-20551 13-20

PARTIAL DIFFERENTIAL EQUATION FOR CONDITIONAL PROBABILITY DENSITY DISTRIBUTION FOR NONLINEAR DYNAMIC SYSTEMS WITH NOISY MEASUREMENTS
TR-432 N64-22122 15-20

NAKAGAMI-RICE PROBABILITY DISTRIBUTION
N64-25528 17-20

PROBABILISTIC CIRCUIT THEORY - INFORMATION THEORY
RADC-TDR-64-180 N64-27456 19-09

PROBABILITY DISTRIBUTION OF ANTENNA GAIN FOR SATELLITES WITH SWITCHED ANTENNA SYSTEMS
ESD-TDR-64-28 N64-29609 21-08

CUMULATIVE PROBABILITY DISTRIBUTION FUNCTION OF QUOTIENT OF CHI-SQUARE VARIATE RATIO DIVIDED BY DEGREE-OF-FREEDOM RATIO - DOUBLY NONCENTRAL F-DISTRIBUTION
ESD-TDR-63-556 N64-32081 23-20

PERIODIC SAMPLING FOR DETERMINATION OF PROBABILITY DISTRIBUTION FUNCTIONS N64-32921 24-08

PROBABILITY THEORY
THEORY OF RANDOM VARIABLES BASED ON PROBABILITY AXIOMS, AND NEW CONCEPTS LEADING TO SCIENCE OF STATISTICAL INFERENCE
CERN-63-29 N64-10153 01-20

ANALYTIC METHODS IN PROBABILITY THEORY - STOCHASTIC PROCESS
MH-TRANS-197 N64-11625 03-20

PROBABILITY OF DETECTION AND CORRECT DECISION AMONG ALTERNATIVES FOR PHASE-INCOHERENT RECEPTION
AFCRL-63-374 N64-12192 03-09

MATHEMATICAL TREATMENT BY PROBABILITY THEORY OF RANDOM PULSE PROCESS WITH INDEPENDENT INTERVALS
FTD-TT-62-1147/1&2&4 N64-12625 04-20

PERCENTAGE POINT TABLE OF RATIO OF SAMPLE RANGES FROM RECTANGULAR PROPULATION DISTRIBUTION - PROBABILITY THEORY
ARL-63-194 N64-13655 05-20

PROBABILITY AND GAME THEORY
JPRS-23958 N64-18514 11-20

MULTISTAGE STOCHASTIC INVESTMENT PROCESS - PROBABILITY THEORY
RM-4025-PR N64-22615 15-20

RELIABILITY THEORY - PROBABILITY THAT RANDOM TIME FUNCTION WILL NOT IN INTERVAL EXCEED LIMITATION THAT ENSURES NORMAL OPERATION OF SYSTEM
N64-30215 22-20

INFORMATION THEORY AND HUMAN THINKING, INFORMATION PERCEPTION, & ELECTROENCEPHALOGRAM ANALYSIS USING PROBABILITY THEORY
JPRS-26839 N64-33010 24-14

PROBE
SA ELECTRON PROBE
SA IMPEDANCE PROBE
SA ION PROBE
SA LANGMUIR PROBE
SA LUNAR PROBE
SA MAGNETIC PROBE
SA METEOROLOGICAL PROBE
SA MICROWAVE PROBE
SA PLASMA PROBE
SA PRESSURE PROBE
SA SOLAR PROBE
SA SPACE PROBE
SA TEMPERATURE PROBE
ELECTRON CYCLOTRON RESONANCE OBSERVED BY RESONANCE PROBE APPLIED TO PLASMA IN MAGNETIC FIELD
IPPJ-15 N64-11249 02-24

NONLINEAR RESPONSE OF ELECTRON DISTRIBUTION IN PHENOMENA OF RESONANCE PROBE
NUP-63-15 N64-13003 04-24

WIRELESS PROBE FOR ELECTROMAGNETIC FIELD MEASUREMENT
AFCRL-63-889 N64-15496 07-15

SIDE FORCES GENERATED BY LATERAL INJECTION OF SONIC GAS JETS AND PROBE IMMERSION INTO CONSTANT AREA SUPERSONIC DUCT FLOW - THRUST VECTOR CONTROL
N64-15633 07-11

RADIO FREQUENCY COMPONENT IN RESONANCE PROBE
IPPJ-19 N64-18005 10-24

CONDENSER PROBE FOR MEASURING PENETRATION DEPTH OF ABLATIVE PLASMA INCIDENT ON SOLID TARGET
GAMD-4255 N64-21168 14-15

RADIOISOTOPIC BIOCHEMICAL PROBE FOR DETECTING EXTRATERRESTRIAL LIFE
NASA-CR-55318 N64-22756 16-16

SPECIFICATIONS AND PERFORMANCE DATA ON SMALL PROBE VEHICLES AND SOUNDING ROCKETS
ORA-63-14 N64-24117 16-32

COMPARISON OF PROBE CHARACTERISTICS OF ELECTRON AND ION CURRENTS IN ONE-, TWO-, THREE-, AND FOUR-ELECTRODE PLASMA PROBES N64-26996 19-15

LOW FREQUENCY CURRENT PROBE TECHNIQUE FOR MEASURING CONDUCTED RADIO FREQUENCY INTERFERENCE
R-304 N64-29380 21-15

IONOSPHERIC ELECTRON DENSITY AND BODY POTENTIAL MEASUREMENTS BY CYLINDRICAL PROBE
NASA-CR-59158 N64-33278 24-12

PROBLEM
S BOLZA PROBLEM
S BOUNDARY VALUE PROBLEM
S CANONICAL PROBLEM
S EIGENVALUE PROBLEM
S GOURSAT PROBLEM
S INITIAL VALUE PROBLEM
S MANY-BODY PROBLEM
S NEUMANN PROBLEM
S RIEMANN PROBLEM
S THREE-BODY PROBLEM
S TRAVELING SALESMAN PROBLEM
S TWO-BODY PROBLEM

PROBLEM SOLVING
PROBLEM SOLVING AND PROGRAMMING INSTRUCTIONS FOR DIGITAL COMPUTER
ANL-6697 N64-13398 04-20

HUMAN PERFORMANCE AND LINEAR COMPUTER PROGRAMMING FOR PROBLEM SOLVING
AD-430035 N64-16653 08-01

SOLUTION TO PROBLEM OF TEMPERATURE FIELD IN TWO LAYER SYSTEM WITH DIFFERENT BOUNDARY CONDITIONS
FTD-TT-63-1135/1 N64-19761 12-13

SOLUTION TO TWO-PERSON ZERO-SUM GAME THEORY PROBLEM USING BAYESIAN STATISTICAL METHOD
N64-19860 12-20

INVERSE ESTIMATION TECHNIQUE FOR PROBLEMS IN EXPERIMENTAL DESIGN N64-20960 14-22

GENERAL PROBLEM-SOLVER - COMPUTER PROGRAM FOR PROBLEM SOLVING
RM-3337-PR N64-21688 15-20

NEWTON METHOD FOR APPROXIMATE SOLUTION OF SYSTEM OF EQUATIONS
MRC-464 N64-22603 15-20

TRANSIENT SOLUTIONS FOR CLASS OF PULSE DIFFRACTION PROBLEMS IN MICROWAVE THEORY
PIBMRI-1209-64 N64-24177 16-23

EXISTENCE OF ABSOLUTE MINIMUM IN OPTIMAL CONTROL PROBLEM N64-25440 17-06

STRUCTURE AND BOUNDARY VALUE PROBLEM OF LINEAR

ELLIPTICAL SYSTEMS N64-25441 17-06

APPROXIMATE SEQUENTIAL ESTIMATION - EVALUATION OF PROBLEM SOLVING PROCEDURES IN AUTOMATIC THEORY FORMATION
TN-1 N64-25667 17-20

TWO-CENTER EXPANSION FOR POWERS OF DISTANCE BETWEEN TWO POINTS - MATHEMATICAL PHYSICS N64-25668 17-20

COMPUTER PROGRAMS AND SUBROUTINES FOR VARIOUS MATHEMATICAL METHODS OF PROBLEM SOLVING
D1-82-0151 N64-25860 18-20

PROCESS OPTIMIZATION WHEN SOLVING PROBLEMS OF SYNTHESIS OF DISCRETE AUTOMATA N64-27165 19-20

NEW PERTURBATION METHOD FOR SOLVING PROBLEMS IN CLASSICAL AND QUANTUM MECHANICS
AD-601184 N64-27703 19-20

SOLUTION OF FUNDAMENTAL PROBLEM OF THEORY OF ELASTICITY
REPT.-2993 N64-27705 19-20

PERIODIC FUNCTION OF FINITE-STATE SEQUENTIAL MACHINES AS RELATED TO NECKLACE PROBLEM SOLVING
NASA-CR-58245 N64-28967 20-20

MULTI-USER COMPUTER SYSTEM FOR EDUCATION AND RESEARCH PROVIDING CONTINUOUS ACCESSIBILITY AND FAST RESPONSE
NASA-CR-55133 N64-29176 21-20

PROCESS
S IRREVERSIBLE PROCESS
S ISENTROPIC PROCESS
S ISOTHERMAL PROCESS
S STOCHASTIC PROCESS

PROCESSING
EFFECTS OF TWO NICKEL ALLOY BRAZE COATINGS, HEAT TREATMENTS, AND PROCESSING VARIABLES ON RUPTURE STRENGTH OF SHEET METALS
NASA-TN-D-1880 N64-10334 01-18

IMPROVED PROCESSING TECHNIQUES FOR SILICON ALLOY POWER TRANSISTOR AND RELIABILITY EVALUATION BY HIGH TEMPERATURE STORAGE STEP STRESS TESTS
AD-436328 N64-19547 12-17

PROCESSING TECHNIQUES FOR HIGH TEMPERATURE OXIDATION RESISTANT PROTECTIVE COATING SYSTEMS N64-27006 19-17

EFFECTS OF MATERIALS AND PROCESSING VARIABLES ON FILAMENT WOUND STRUCTURES
QPR-0827-02-2 N64-28507 20-17

STOCHASTIC MATRIX STORAGE & PROCESSING USING THERMOPLASTIC & OIL FILM TECHNIQUES
AFCRL-64-294 N64-30568 22-23

PROCESSOR
SA DATA PROCESSOR
EVALUATING LOGICAL DESIGN OF PROBLEM-ORIENTED SYMBOL PROCESSOR - ADAM AND IBM 7090 PROGRAM ASSEMBLIES
AFCRL-64-198 N64-21770 15-20

INFORMATION PROCESSOR FOR PATTERN RECOGNITION USING COMPUTER FLOW CHARTS
SRC-30-1-63-1 N64-22563 15-08

DESIGN MECHANIZATION OF PROBLEM-ORIENTED SYMBOL PROCESSOR - LOGIC, DIAGNOSTIC PROGRAMS, READ-ONLY MEMORY LAYOUT PROGRAM, AND ALGOL ARITHMETIC COMPILER
AFCRL-64-454/2/ N64-26897 18-20

PRODUCT DEVELOPMENT
CF MANAGEMENT PLANNING
CF QUALITY CONTROL
PRODUCT DEVELOPMENT, PRODUCTION, & QUALITY CONTROL OF SILICON PLANAR EPITAXIALLY DEPOSITED TRANSISTOR
AD-435115 N64-18739 11-17

PRODUCT DEVELOPMENT, RELIABILITY ENGINEERING, AND QUALITY CONTROL OF TRANSISTORS
AD-433496 N64-18909 11-17

DEVELOPMENT OF NEW RELAYS - CONTAMINATION AND RELIABILITY PROBLEMS N64-19536 12-09

SILICON CONTROL RECTIFIERS FOR SWITCHING DEVICES
AD-448624 N64-32542 23-17

PRODUCTION
SA AIRCRAFT PRODUCTION
SA ION PRODUCTION
SA PHOTOPRODUCTION
DYNAMIC COMPUTER PROGRAM FOR ECONOMICS PROBLEM - RELATION OF PRODUCTION, PRODUCERS, AND CAPITAL N64-11034 02-20

OPTIMUM PRODUCTION PROGRAMMING FOR MULTIPURPOSE EQUIPMENT
DVL-272 N64-11307 02-20

PRODUCTION COST ESTIMATION OF RELAYS N64-19508 12-17

PRODUCTION OF LIQUID-SOLID MIXTURES OF HYDROGEN - HYDROGEN SLUSH
APL-TDR-64-22 N64-29652 21-23

OPTIMAL GRAPHING FOR MACHINE TOOLS PROCESSING VARIETIES OF PARTS - PRODUCTION EFFICIENCY N64-29744 21-20

RELIABILITY AND QUALITY CONTROL MEASURES DURING PRODUCTION OF TRANSISTORS
AD-603363 N64-30147 21-17

LOW POWER MAGNETIC COMMUTATOR FOR DIGITAL SYSTEM OF MULTIPLE CONTROL OF PRODUCTION PROCESSES N64-30231 22-09

PRODUCTION METHOD
ALGORITHMIC SIMULATION FOR ANALYSIS OF INDIVIDUAL QUEUEING SYSTEMS AND PRODUCTION PROCESSES BY COMPUTER
JPRS-19621 N64-10511 01-20

FABRICATION TECHNIQUES FOR PRODUCTION OF LOW-COST TUBULAR FUEL ELEMENTS
BMI-1652 N64-11303 02-17

TRANSISTOR RELIABILITY AND PRODUCTION METHODS IMPROVEMENT
AD-423248 N64-12983 04-09

PRODUCTION TECHNIQUES TO IMPROVE RELIABILITY OF SILICON TRANSISTORS
AD-422641 N64-12989 04-09

PRODUCTION DEVELOPMENT OF SILICON PLANAR EPITAXIAL TRANSISTOR - RELIABILITY ENGINEERING
AD-422536 N64-12998 04-09

PRODUCTION DEVELOPMENT OF SILICON PLANAR EPITAXIAL TRANSISTOR N64-13038 04-09

CERAMIC MOLDING DIES, LAYUP BLOCKS, AND HOT SIZING DIES
GMRI-660.03 N64-13887 05-17

PRODUCTION APPLICATION OF CERAMIC TOOLS
GMRI-660.02 N64-13888 05-15

DEFORMATION PROCEDURES USED ON HIGH PURITY POWDER IN FABRICATION OF BERYLLIUM SHEET - DEVELOPMENT OF TEST PROCEDURES
I-B2106-1 N64-13974 05-10

IMPROVED MANUFACTURING TECHNIQUES FOR INCREASED RELIABILITY OF FIELD EFFECT TRANSISTORS
QR-1 N64-13990 05-17

PRODUCTION ENGINEERING TO IMPROVE AND INCREASE RELIABILITY OF PNP SILICON TRANSISTORS
QPR-1 N64-14299 06-17

DIGITAL COMPUTER ANALYSIS OF ELECTRIC HEATING ELEMENT PRODUCTION PROCESSES
JPRS-23041 N64-14525 06-20

MACROSCOPIC PRODUCTION OF AMERICIUM METAL
LA-2992 N64-14541 06-17

APPLICATION OF SCIENCE AND TECHNOLOGY TO PRODUCTION METHODS
JPRS-23116 N64-14877 06-17

IMPROVED PRODUCTION METHODS FOR NUVISTOR TUBES
QPR-6 N64-14989 06-17

RARE EARTH ALLOYS, HAFNIUM CARBIDE, THORIUM ALLOY, MELTING & CASTING METHODS, AND TUNGSTEN-RHENIUM TUBING DEVELOPMENTS
USBM-U-1091 N64-15838 07-18

MASS PRODUCTION ENGINEERING OF BERYLLIUM OXIDE POWDER
AD-430303 N64-16338 08-07

PRODUCTION ENGINEERING MEASURES TO IMPROVE TRANSISTOR RELIABILITY
AD-434402 N64-18064 10-17

SILICON PLANAR EPITAXIAL TRANSISTOR - PRODUCTION METHOD, RELIABILITY, AND LIFETIME
AD-435114 N64-18738 11-17

SOLDERLESS WIRE WRAP CONNECTIONS PRODUCED BY AUTOMATIC MACHINE AND HAND TOOLS
SR-44664 N64-19008 11-17

PRODUCTION METHOD FOR QUARTZ CRYSTALS USED IN RELIABILITY STUDY
REPT.-3 N64-22716 15-25

PRODUCTION METHOD - SURFACE PLACEMENT ERRORS IN MACHINING COMPONENTS N64-23075 16-17

PRODUCTION METHODS FOR RUGGEDIZED QUARTZ CRYSTAL OSCILLATORS
QPR-6 N64-28620 20-09

PRODUCTION METHOD IMPROVEMENTS AND RELIABILITY TESTING FOR GERMANIUM EPITAXIAL MESA TRANSISTOR
REPT.-03-64-12 N64-28795 20-17

DRAWING OF CONTINUOUS LENGTHS OF GLASS-METAL COMPOSITE FIBERS
C910242-1 N64-32812 24-17

BERYLLIUM COATED PLASTIC FILMS AS X-RAY SENSORY WINDOWS ON TANDEM DETECTION SATELLITES
NLM-1194 N64-32880 24-17

PRODUCTION OF TUNGSTEN SHEET AND PLATE BY POWDER METALLURGY TECHNIQUE
DMIC-MEMO-195 N64-33295 24-18

PRODUCTION METHODS TO INSURE RELIABILITY CONTROL OF FIELD EFFECT TRANSISTORS
QR-4 N64-33314 24-17

APPARATUS FOR PRODUCTION OF INTENSE TRANSIENT MAGNETIC FIELDS - PULSED FIELD UNIT
TN-5 N64-33320 24-09

PRODUCTION ENGINEERING METHOD TO INCREASE SILICON TRANSISTOR RELIABILITY
REPT.-03-64-43 N64-33323 24-17

PREPRODUCTION ENGINEERING METHODS FOR GOLD-DOPED GERMANIUM INFRARED DETECTORS
QPR-6 N64-33339 24-17

PROFICIENCY MEASUREMENT
BIBLIOGRAPHY ON PROFICIENCY MEASUREMENT FOR TRAINING QUALITY CONTROL
AD-448362 N64-32813 24-14

PROFILE
S TEMPERATURE PROFILE

PROGRAM
S NASA PROGRAM

PROGRAM MANAGEMENT
FEDERAL ORGANIZATION FOR SCIENTIFIC STUDY
NSF-62-37 N64-10294 01-01

AIRCRAFT PRODUCTION RELIABILITY PROGRAM MANAGEMENT FOR OPTIMUM TIME & COST - CONTRACTOR-SUBCONTRACTOR RELATIONSHIP
EWR-104-63 N64-10973 02-20

ADMINISTRATIVE ASPECTS OF SPACE RESEARCH AND EXPLORATION N64-11113 02-01

MANAGEMENT PLANNING AND TECHNICAL FACILITIES FOR MISSILE AND ROCKET SYSTEMS
AD-406208 N64-11640 03-10

RADIOLOGICAL ASSISTANCE TEAM - ORGANIZATION, TRAINING, OPERATION, EQUIPMENT, AND UTILIZATION IN INCIDENTS INVOLVING NUCLEAR WEAPONS AND MATERIALS
ANL-6786 N64-13224 04-10

ATMOSPHERIC SCIENCES & IMPLICATIONS OF OUTER SPACE DEVELOPMENTS - WORLD METEOROLOGICAL ORGANIZATION PLANNING N64-13379 04-21

RESEARCH ON MANAGEMENT OF RESEARCH AND DEVELOPMENT PROGRAMS - BIBLIOGRAPHY
NASA-CR-55660 N64-15903 07-01

HYDROMETEOROLOGY PROGRAM MANAGEMENT & PLANNING IN SOVIET UNION
JPRS-24528 N64-20231 13-12

ALL-WEATHER AIRCRAFT LANDING SYSTEM - PROGRAM MANAGEMENT N64-20933 14-22

GEMINI PROJECT - PROGRAM PLAN FOR LAUNCH VEHICLE GUIDANCE COMPUTER
AD-431251 N64-21349 14-01

MANAGEMENT PLANNING FOR MINIMUM COST WITHIN RELIABILITY CONSTRAINTS OF DEVELOPMENT PROGRAMS
AIAA PAPER-64-410 N64-24892 17-20

PROGRAMMER
PROGRAMMER ELECTRONICS FOR ATMOSPHERIC STRUCTURE SATELLITE - EXPLORER XVII
NASA-TM-X-50997 N64-10095 01-09

MAGNETIC CORE PROGRAMMER FOR ARMING COPPERHEAD II FUSE SYSTEM
TR-1215 N64-24213 16-06

INDICATOR MODULE AND INTEGRATED MODULAR PROGRAMMER
MPR-8 N64-29603 21-15

PROGRAMMER ORIENTED GENERALIZED OPERATOR /POGO/
INSTRUCTION MANUAL FOR PROGRAMMER ORIENTED GENERALIZED OPERATOR /POGO/ DATA HANDLING SYSTEM FOR IBM 7070 COMPUTER
IS-893 N64-30757 22-32

PROGRAMMING
SA CODING
SA COMPUTER PROGRAMMING
SA DYNAMIC PROGRAMMING
SA LINEAR PROGRAMMING
SA NONLINEAR PROGRAMMING
SA OPTIMUM THRUST PROGRAMMING
REDUCTION OF STOCHASTIC PROGRAMMING PROBLEM TO CONVEX LINEAR PROBLEM
ORC-63-22-/RR/ N64-10988 02-20

COMPUTER PROGRAMMING - SELF-ORGANIZATION, MEDICAL DIAGNOSTICS, CODE CONVERSION, CYBERNETICS, PERCEPTRONS, AND DEVELOPMENTS IN AUTOMATION
JPRS-17688 N64-11529 03-01

PREPARATION OF PROGRAMMED INSTRUCTION FOR AUTOMATED TRAINING IN DECISION MAKING - PERT PROGRAM
ESD-TDR-63-608 N64-12319 03-14

STIFFNESS METHOD OF STRUCTURAL ANALYSIS - COMPUTER PROGRAMMING, STRESS, THERMOELASTICITY, & ELASTIC STABILITY CALCULATIONS N64-13045 04-34

ALPHA CODING SYSTEM FOR ELECTRONIC DIGITAL COMPUTER PROGRAMMING
AD-403047 N64-13100 04-20

AUTOMATIC PROGRAMMING, CONTROLLING, AND RECORDING MACHINE FOR DATA ACQUISITION & CONTROL SYSTEM

APPLICATION
SC-4944/RR/ N64-13233 04-20

PROGRAMMING NONLINEAR CONSTRAINTS BY UNCONSTRAINED MINIMIZATION
RAC-TP-96 N64-13244 04-20

DANTZIG QUADRATIC PROGRAMMING ALGORITHM FOR SOLUTIONS USING MEDIUM-SIZED DIGITAL COMPUTER
AD-423332 N64-13245 04-20

PROGRAMMER MANUAL FOR POLAR ORBITING GEOPHYSICAL OBSERVATORY
IS-769 N64-13388 04-20

PROBLEM SOLVING AND PROGRAMMING INSTRUCTIONS FOR DIGITAL COMPUTER
ANL-6697 N64-13398 04-20

MACROPROGRAMMING TO GENERATE AUTOCODER INSTRUCTIONS FOR FREE FORMAT SCAN OF CORE AREA - IBM 7070 COMPUTER
IS-765 N64-14418 06-20

PROGRAMMING NEEDS FOR AUTOMATED LABORATORY FOR PSYCHOLOGICAL RESEARCH
ESD-TDR-63-353 N64-14469 06-14

GRADIENT INEQUALITY FOR NONDIFFERENTIABLE FUNCTIONS - MATHEMATICAL PROGRAMMING
ORC-63-25-/RR/ N64-14819 06-20

TEACHING MACHINES AND PROGRAMMED LEARNING IN THE SOVIET - LITERATURE SURVEY
JPRS-23280 N64-15333 07-20

PROGRAMMING MANUAL FOR USE OF CONTROL DATA 1604 COMPUTER USING ALGOL COMPILER
ORNL-3460 N64-15338 07-20

EQUATIONS AND PROGRAMS FOR SOLUTIONS OF NEUTRON GROUP DIFFUSION EQUATIONS BY SYNTHESIS APPROXIMATIONS - COMPUTER PROGRAMMING
WAPD-TM-377 N64-15393 07-20

IBM 1401 COMPUTER PROGRAMMING OF AIRLINE FLIGHTS - AIR TRAFFIC CONTROL N64-15670 07-10

MACRO OUTPUT-INPUT PROGRAMMING COMPONENT FOR IBM 7090 COMPUTER /MOIST/
NASA-CR-53080 N64-16753 08-20

CONTROL SYSTEMS, CODING, PROGRAMMING, AND COMPUTERS IN CYBERNETICS
JPRS-23700 N64-16860 08-16

LOW COST HIGH RESOLUTION PROGRAMMABLE MASKING FOR FUNCTIONAL ELECTRONIC BLOCKS
NCR-28-11 N64-16967 09-20

PROGRAMMING OF DIFFERENTIAL CORRECTION TO ORBITAL ELEMENTS AND STATION POSITIONS
AFCRL-64-55 N64-19417 12-29

PLACE - PROGRAMMING LANGUAGE FOR AUTOMATIC CHECKOUT EQUIPMENT
RTD-TDR-4171, VOL. 2 N64-20108 13-20

PLACE - PROGRAMMING LANGUAGE FOR AUTOMATIC CHECKOUT EQUIPMENT AND ADAPTATIONS FOR DIGITAL COMPUTER CONTROLLED CHECKOUT MACHINE
RTD-TDR-4171, VOL. 1 N64-20171 13-20

SCHEDULING INDEPENDENT TASKS ON ONE OR MORE DATA PROCESSORS FOR OPTIMUM COST
ITR-2 N64-20403 13-20

PROGRAMMED INSTRUCTION AND CYBERNETIC TEACHING MACHINES
JPRS-24933 N64-21694 15-08

MICROMINIATURE PROGRAMMABLE LOGIC ELEMENTS
AFCRL-64-321 N64-24206 16-09

PROGRAMMING UNIT WITH PROGRAM RECORDED ON FIXED PUNCH CARD N64-24253 17-18

ALGORITHM FOR MINIMIZATION OF MICROPROGRAM SCHEMES N64-24687 17-09

PROGRAMMING - CONSTRUCTION OF LONG CODE FROM SHORT CODE FOR ERROR ANALYSIS N64-24694 17-20

PROGRAMMING - APPLICATION OF CODE RINGS OF TYPE-O IN CODE TRANSLATORS N64-24695 17-20

POLARIZATION PROGRAMMING IN TROPOSPHERIC SCATTER PROPAGATION COMMUNICATION SYSTEM
RADC-TDR-64-258, VOL. II N64-27427 19-08

PROGRAMMING LANGUAGE AND METHODS FOR NONNUMERICAL PROBLEMS
EUR-365.F N64-28450 20-20

OPERATIONS AND LANGUAGE FOR DIGITAL COMPUTER PROGRAMMING USING SYSTEMATIC SYNTHESIS TECHNIQUES
RADC-TDR-64-135 N64-28466 20-20

PROGRAMMING GUIDE FOR UNIVAC 1107 COMPUTER
NASA-TM-X-55040 N64-28761 20-20

COMPUTER PROGRAMMING TECHNIQUES - STATISTICAL ANALYSIS, INFORMATION RETRIEVAL, GRAPHIC INPUT AND DISPLAY, AND AUTOMATED DEBUGGING
RADC-TDR-64-233 N64-29932 21-18

MODELING IN TEACHING FOREIGN LANGUAGES AND PROBLEMS OF PROGRAMMED INSTRUCTION USING PSYCHOLOGY
JPRS-27166 N64-33485 24-14

PROJECT
S NASA PROGRAM

PROJECTILE
SA HYPERVELOCITY PROJECTILE

CONTAINMENT OF FRAGMENTS FROM RUNAWAY REACTOR - PROJECTILE PENETRATION ENERGY
SRIA-113 N64-10272 01-23

HYPERVELOCITY IMPACT - CRATERING IN SEMI-INFINITE TARGETS & PENETRATION OF SINGLE THIN TARGET N64-13441 05-23

IMPACT RADIATION ON COLLISION BETWEEN PROJECTILE & TARGET
NASA-CR-55783 N64-15876 07-23

CRATER FORMATION IN SEMI-INFINITE TARGETS USING BLAST WAVE THEORY - SHOCK WAVE PROPAGATION IN SOLIDS
NASA-CR-52427 N64-18489 10-23

MATHEMATICAL ANALYSIS OF SAFETY AND ARMING SETBACK MECHANISMS OF ORDNANCE PROJECTILES FOR MAXIMUM SAFETY AND RELIABILITY
HDL-TR-1190 N64-22503 15-24

PLASMA CERENKOV RADIATION FROM POINT PROJECTILE AND EXTENSION TO PROJECTILE OF FINITE SIZE
D1-82-0263 N64-26013 18-24

SURFACE TEMPERATURE AT NOSE OF PROJECTILE
CARDE-TR-481/64 N64-26097 18-13

RADIATION MEASUREMENTS FROM PLASMA SHEATH SURROUNDING HYPERSONIC PROJECTILE N64-26154 18-24

TEMPERATURE EFFECT ON PROTECTION BALLISTIC LIMIT FOR PROJECTILE PENETRATION OF ALUMINUM ALLOY ARMOR PLATE
M64-3-1 N64-28870 20-18

GLASS FILAMENT WOUND GROMMET TO PROTECT ROTATING BAND OF PROJECTILE
TM-1155 N64-29305 21-17

HYPERVELOCITY IMPACT OF ALUMINUM PROJECTILES ON VARIOUS METAL TARGETS
ATL-TDR-64-51 N64-30707 22-33

PENETRATION DEPTH OF METAL PARTICLES IN HYPERVELOCITY IMPACT
ATL-TR-64-64 N64-31120 22-33

BALLISTIC RESISTANCE OF THIN PLATES TO PENETRATION OF HIGH SPEED PROJECTILES
MR-1127 N64-31277 22-18

EXTERIOR BALLISTICS ENGINEERING DESIGN HANDBOOK - TRAJECTORIES, DIFFERENTIAL EFFECTS, AND DATA FOR PROJECTILES
AMCP-706-140 N64-33129 24-02

PROJECTION
COMPUTER PROGRAM TO FIND PROJECTION OF SATELLITE ON SURFACE OF ROTATING EARTH AND VEHICLE-SUN ORIENTATION
R64SD42 N64-32851 24-29

PROJECTIONS ON ELECTRODES AND THEIR EFFECT ON ELECTRIC BREAKDOWN IN VACUUM
R-192 N64-32974 24-09

PROLATE SPHEROID FUNCTION
TABULATION OF SOLUTIONS OF PROLATE SPHEROIDAL ANGLE FUNCTIONS BY RAYLEIGH-RITZ METHOD
REPT.-4563-65-J N64-21117 14-08

RAYLEIGH-RITZ METHOD USED TO SOLVE STABILITY OF PROLATE SPHEROIDAL SHELLS UNDER UNIFORM EXTERNAL PRESSURE
DTMB-TRANS-317 N64-24098 16-11

PROLATE SPHEROID ELECTROMAGNETIC & ACOUSTIC SCATTERING
REPT.-3648-6-T N64-26976 19-08

AXIAL ECHO AREA OF PERFECTLY CONDUCTING PROLATE SPHEROID USING IMPULSE APPROXIMATION
REPT.-1774-1 N64-32505 23-08

PROMETHIUM
ION-EXCHANGE PURIFICATION OF PROMETHIUM, AT HIGH TEMPERATURE WITH AMMONIA BUFFERED ELUENT, FROM RADIOACTIVE WASTE
HW-78651, REV. N64-11957 03-07

HALF-LIFE DETERMINATIONS FOR PROMETHIUM-143 & 144
USNRDL-TR-684 N64-14708 06-23

PROMINENCE
ERUPTIVE PROMINENCE MOTIONS - TRAJECTORIES & MAGNETIC FIELDS N64-11636 03-28

PHYSICAL CONDITIONS IN SOLAR PROMINENCES THROUGH SPECTROGRAMS OF EMISSION LINES WITH SELF-ABSORPTION
T-R-84 N64-16961 09-28

CLASSIFICATION OF SOLAR PROMINENCES OBSERVED FROM SACRAMENTO PEAK OBSERVATORY DURING SUNSPOT CYCLE NUMBER 19, IN 1960
AFCRL-64-93 N64-18262 10-28

CLASSIFICATION OF SOLAR PROMINENCES OBSERVED FROM SACRAMENTO PEAK OBSERVATORY DURING SUNSPOT CYCLE NUMBER 19, IN 1961
AFCRL-64-119 N64-18263 10-28

SOLAR PROMINENCE OF APRIL 1963 - SOLAR ACTIVITY, MOTION OF PROMINENCE, AND BRIGHT SURGES
N64-19156 11-28

INTERNATIONAL GEOPHYSICAL YEAR /IGY/ SOLAR ACTIVITY OBSERVATIONS - SOLAR PROMINENCE DATA FOR 1963 N64-19248 11-29

SOLAR FLARES AND LOOP PROMINENCE MECHANISM
N64-30260 22-28

PROPAGATION
SA COSMIC RAY PROPAGATION
SA CRACK PROPAGATION
SA DIFFRACTION PROPAGATION
SA ELECTROMAGNETIC PROPAGATION
SA IONOSPHERIC PROPAGATION
SA NOISE PROPAGATION
SA RADIO PROPAGATION
SA RADIO SIGNAL PROPAGATION
SA SCATTER PROPAGATION
SA SHOCK WAVE PROPAGATION
SA SOUND PROPAGATION
SA STRESS PROPAGATION

SOLAR FLARE PRODUCED COSMIC RAYS - OCCURRENCE, DECAY, ENERGY SPECTRUM, AND PROPAGATION MODEL
NASA-CR-55150 N64-13183 04-28

CREATION, PROPAGATION, AND DETECTION OF ALFVEN WAVES IN PARTIALLY IONIZED, LOW DENSITY MEDIUM
AFCRL-63-782, VOL. 1 N64-16063 07-24

PROPAGATION AND DETECTION OF ALFVEN WAVES - MAGNETOHYDRODYNAMICS
AFCRL-63-782, VOL. 3 N64-16065 07-24

ANALOGOUS PROPAGATION MODES OF TRANSVERSE WAVES IN INHOMOGENEOUS PLASMA AND TAPERED WAVEGUIDE
MATT-237 N64-18341 10-24

STORAGE AND INTERNAL PROPAGATION LOSSES AFFECTING EFFICIENT OUTPUT PERFORMANCE OF RUBY LASER
AFCRL-64-151 N64-19665 12-25

DIURNAL VARIATION IN VERY LOW FREQUENCY RADIO PROPAGATION OVER SINGLE MODE PATHS
N64-19692 12-12

PROPAGATION, SCATTERING, AND GENERAL CHARACTERISTICS OF UPPER ATMOSPHERE
N64-20752 14-12

SOLAR FLARE EFFECTS ON VERY LOW FREQUENCY PROPAGATION PATHS
NBS-TN-210 N64-21213 14-08

MICROWAVE INVESTIGATION OF DIELECTRIC WAVEGUIDE PROPAGATION BY MAGNETO-IONIC DUCTS
AFCRL-64-219 N64-21447 14-24

AUTOMATIC PROPAGATION COMPUTATION ROUTINE FOR HORIZONTALLY AND VERTICALLY POLARIZED TROPOSPHERIC WAVE TRANSMISSION N64-22837 16-09

PROPAGATION IN ABSORBENT MATERIAL LINED CAVITIES
N64-22842 16-09

EXAMINATION OF HIGH FREQUENCY PHASE FLUCTUATIONS INDUCED BY ATMOSPHERE ALONG SATELLITE-TO-GROUND PROPAGATION PATH
REPT.-4563-67-T N64-25745 17-29

PROPAGATION LIMITED COMPUTER NETWORK
AFCRL-64-376 N64-29996 21-09

ELECTROMAGNETIC PROPAGATION MODES IN ANISOTROPIC PLASMAGUIDES AND RESONATORS
AL-TDR-64-157 N64-30981 22-24

PROPAGATION VELOCITY
DETERMINATION OF SOUND PROPAGATION RATE IN LIQUIDS FLUID DYNAMICS, FLIGHT MECHANICS, THERMODYNAMICS AND STRUCTURAL DYNAMICS
S.M.F. FUND PAPER-FF-34 N64-10080 01-01

PROPAGATION OF ULTRASONIC WAVES IN BLOOD OF DOGS - DYNAMICS OF ACUTE RADIATION SICKNESS
JPRS-21775 N64-10206 01-16

PROPAGATION VELOCITY OF ULTRASONIC WAVES IN IRON AND CAST IRON AND SEVERAL DIELECTRIC MATERIALS
FTD-TT-64-120/164 N64-25463 17-23

ELECTRONIC EQUIPMENT FOR MEASURING PULSE WAVE PROPAGATION VELOCITIES IN ARTERIES
N64-30393 22-16

PROPANE
MASS SPECTRA AND ION-MOLECULE REACTIONS IN ETHANE, PROPANE, AND BUTANE UNDER HIGH PRESSURE - SQUID PROJECT
HUM-4-P N64-13257 04-07

PROTON MAGNETIC RESONANCE OF CYCLOPROPANE DERIVATIVES N64-19580 12-23

INFRARED SPECTRA OF ORGANIC FLUORINE COMPOUNDS - PERFLUOROCYCLOPROPANE AND CIS AND TRANS FORMS OF PERFLUOROBUTENE-2
SSD-TDR-64-144 N64-28538 20-07

RADIOLYSIS OF PROPANE AT LOW CONVERSION
GNE/PHYS/64-2 N64-33815 24-07

PROPELLANT
SA BIPROPELLANT
SA CASE BONDED PROPELLANT
SA COLLOIDAL PROPELLANT
SA COMPOSITE PROPELLANT
SA CRYOGENIC PROPELLANT
SA DOUBLE BASE PROPELLANT
SA GAS PROPELLANT
CF EXPLOSIVE
CF FUEL
CF HIGH ENERGY PROPELLANT
CF HIGH TEMPERATURE PROPELLANT
CF HYPERGOLIC PROPELLANT
CF LIQUID PROPELLANT
CF SOLID PROPELLANT
CF STORABLE PROPELLANT
CHARACTERISTICS OF BORON FLAMES - ROCKET FUEL USE - SQUID PROJECT
RMD-3-P N64-11435 02-26

FLAME INHIBITION BY DISPERSED SOLID PARTICLES AND ADDITIVES
RTD-TDR-63-4011 N64-11462 03-26

HYDROGEN ATOM RECOMBINATION CATALYSIS FOR INCREASE IN PROPELLANT SPECIFIC IMPULSE - ARC JET PROPULSION UNIT APPLICATION
NASA-CR-52376 N64-13061 04-23

SYNTHESIS OF NITRO-OXYLFLUORIDE OXIDIZERS BY FISSION FRAGMENT RECOIL
AN-1119 N64-14694 06-26

EFFECT OF INTERCHANGING PROPELLANTS IN COAXIAL INJECTION ON ROCKET COMBUSTOR PERFORMANCE
NASA-TN-D-2169 N64-14986 06-27

DETERIORATION OF JET FUEL THERMAL-STABILITY DURING NORMAL STORAGE, AND STABILITY ADDITIVES - LITERATURE REVIEW
RTD-TDR-63-4270 N64-15735 07-26

HANDBOOK OF FUNDAMENTAL OPERATING PRINCIPLES OF BALLISTIC MISSILE PROPULSION SYSTEMS AND PROPELLANTS
AMCP-706-282 N64-16616 08-26

LIQUID PROPELLANT SENSITIVITY - CRYOGENIC ADAPTATION OF SHOCK TUBE
IITRI-C602V N64-16658 08-26

HISTORIES OF PROPELLANT DROPLET TEMPERATURE, EVAPORATION RATE, AND TRAJECTORY UNDER HIGH PRESSURE AND HIGH TEMPERATURE
NASA-RP-138 N64-16688 08-23

CHEMICAL REACTION OF PROPELLANT TANK MATERIAL WITH ROCKET FUEL AND OXIDIZERS
NASA-TN-D-1882 N64-17152 09-26

INITIATION MECHANISMS OF DETONATION WAVES IN EXPLOSIVES AND PROPELLANTS N64-18495 10-26

OPTIMUM THRUST PROGRAMMING TO DETERMINE COMPOSITION OF MULTICOMPONENT PROPELLANTS - IBM 7090 AND 7094 COMPUTER PROGRAM
U-2502 N64-19414 12-20

THERMAL STABILITY OF EXPLOSIVES AT HIGH TEMPERATURES - WENOGRAD TECHNIQUE
S-44 N64-19728 12-26

ION ENGINE PROPELLANT FEED SYSTEM
NASA-CR-51 N64-20579 13-27

SPACE VEHICLE CONTROL - STRUCTURAL VIBRATIONS, PROPELLANT SLOSHING, & VEHICLE STABILITY
N64-20710 13-30

FLUID BALL SOLUBILITY AND CURING PROCESS FOR NITROCELLULOSE-BASED PROPELLANTS
RK-TR-64-1 N64-21794 15-26

IBM 7090 COMPUTER CALCULATION OF PROPELLANT THERMODYNAMIC PROPERTIES
NOLTR-63-202 N64-22706 15-20

PROPELLANT FLOW METER FOR ION ROCKET SYSTEMS
NASA CR-54070 N64-23197 16-27

STAGE SEPARATION & PROPELLANT DISPERSION ORDNANCE SUBSYSTEM
NASA-CR-56647 N64-24016 16-26

ELECTRON BOMBARDMENT ION ENGINE USING MERCURY AS PROPELLANT
NASA-CR-54082 N64-25008 17-27

THERMAL ARC JET SYSTEM USING AMMONIA AS PROPELLANT
N64-25022 17-26

ACOUSTICALLY EXCITED PROPELLANT UTILIZATION VALVES REDESIGNED FOR COMPATIBILITY IN MA-5 PROPULSION SYSTEM
R-5585 N64-25716 17-26

PERFORMANCE DATA OF BENZENE-TOLUENE ROCKET PROPELLANT WITH NITRIC ACID OXIDIZER
DVL-300 N64-26283 18-13

VELOCITY DISTRIBUTION OF PROPELLANT EJECTION AND EFFECT ON PROPULSION EFFICIENCY OF ION ENGINES
NASA-RP-241 N64-26403 18-27

HEAVY MOLECULE PROPELLANTS IN ELECTRON BOMBARDMENT THRUSTOR
NASA-TN-D-2401 N64-26453 18-27

DENSE PHASE TRANSPORT OF POWDERED METALS FOR TRIPROPELLANT ROCKET SYSTEM N64-26666 18-26

PROPELLANT CHARGES AND NOZZLE CONFIGURATIONS FOR CARTRIDGE DISSEMINATION OF LIQUIDS AND POWDERS
ER-3043C N64-27776 19-17

CONDENSATION COLLOIDAL ION SOURCE FOR PRODUCTION OF PROPELLANT PARTICLES FOR ELECTROSTATIC ION ENGINE
ASD-TDR-63-825 N64-28815 20-27

RESEARCH PROJECTS IN BIOLOGY, PLASMA PHYSICS, RADIATION, PROPELLANTS, AND SOLID STATE PHYSICS
NASA-CR-58625 N64-28891 20-23

BOOSTER PARAMETRIC DESIGN METHOD FOR PERFORMANCE AND TRAJECTORY ANALYSIS - PROPULSION
NASA-TM-X-53053 N64-29178 21-27

HEAT TRANSFER IN NOZZLE SYSTEMS - NOZZLE DESIGN AND PROPELLANT PROPERTIES, AND RELATION OF NOZZLE HEAT TRANSFER WITH ROCKET MOTOR OPERATING PARAMETERS
ABL/ARPA/QTSR-7 N64-29381 21-13

EXPLOITATION OF EXTRATERRESTRIAL RESOURCES AND PROPELLANT PRODUCTION - WATER AND OXYGEN RECOVERY
N64-29889 21-10

FOAMED PROPELLANT SYSTEM FOR COMPACTION AND STABILIZATION OF COHESIONLESS AND COHESIVE SOILS
SURI-CE-974-647F1 N64-30004 21-12

DETONATION IN PROPELLANTS & EXPLOSIVES BY LOW AMPLITUDE SHOCKS
AD-406438 N64-30144 21-21

EXPLOSION SENSITIVITY OF SOLID PROPELLANT ROCKET ENGINES
NOLTR-64-148 N64-31675 23-26

TWO-ELECTRODE ELECTROCHEMICAL SENSOR FOR DETECTION OF TRACES OF PROPELLANTS IN AIR
GE/EE/63-19 N64-32946 24-07

PERFORMANCE OF HIGH SPECIFIC IMPULSE LIQUID-COOLED ARC JET ENGINE USING HYDROGEN AS PROPELLANT
AIAA PAPER-64-669 N64-33144 24-27

LUNAR PROPELLANT MANUFACTURE AND REFUELING
REPT.-64SD237 N64-33866 24-10

IONIZATION AND CONDUCTIVITY OF INORGANIC NITROGEN-FLUORINE COMPOUNDS FOR PROPELLANT OXIDIZERS
EC-670 N64-33926 24-07

PROPELLANT ACTUATED DEVICE
CF CARTRIDGE ACTUATED DEVICE
CF THRUSTOR
PROPELLANT ACTUATED DEVICES FOR ESCAPE SYSTEMS

REPT.-90-1 N64-24974 17-26

PRESSURE WELD CARTRIDGE SEAL FOR PROPELLANT ACTUATED DEVICES IN FLIGHT VEHICLES
R-1666 N64-29399 21-17

PROPELLANT ACTUATED DEVICES /PAD/
REPT.-92-1 N64-32278 23-06

PROPELLANT ACTUATED DEVICES /PAD/ INCLUDING THRUSTERS, CATAPULTS, INITIATORS, AND STRUCTURAL MATERIAL
PAD-93-1 N64-32596 23-27

PROPELLANT ACTUATED DEVICES - THRUSTERS, CATAPULTS, INITIATORS, AND STRUCTURAL MATERIALS
PAD-94-1 N64-32597 23-06

ENGINEERING DESIGN HANDBOOK ON PROPELLANT ACTUATED DEVICES
AMCP-706-270 N64-32646 23-06

PROPELLANT COMBUSTION
GAS PHASE REACTIONS ASSOCIATED WITH COMBUSTION OF COMPOSITE SOLID PROPELLANTS - APPARENT FLAME STRENGTH
AD-428627 N64-14794 06-26

ALUMINUM OXIDE SIZE DISTRIBUTIONS FROM HIGH PRESSURE SOLID PROPELLANT COMBUSTION
AIAA PAPER-64-115 N64-14854 06-26

INFLUENCE OF IONS ON ROCKET COMBUSTION
AFOSR-5493 N64-16341 08-21

THERMODYNAMIC PROPERTIES OF PROPELLANT COMBUSTION PRODUCTS - VAPORIZATION OF BORON AND ENTROPIES OF GASEOUS METAL HALIDES
U-2403/2 N64-18742 11-26

OPTIMUM SUSPENDED PARTICLE SIZE FOR ACOUSTIC ATTENUATION IN ROCKET PROPELLANT COMBUSTION
ABL/X-115 N64-31030 22-23

ALUMINUM OXIDE REDUCTION BY PROPELLANT COMBUSTION GASES AT HIGH TEMPERATURE
SSD-TDR-64-160 N64-31982 23-26

THERMODYNAMIC PROPERTIES OF PROPELLANT COMBUSTION PRODUCTS - PERFORMANCE PARAMETERS FOR COMPUTER PROGRAM
U-2289 N64-32125 23-26

NONEQUILIBRIUM RECOMBINATION IN NOZZLES FOR LIQUID OXYGEN-HYDROGEN, FLUORINE-HYDROGEN, AND FLUORINE-LIQUID OXYGEN-HYDROGEN PROPELLANTS
TDR-269/4210-10/-6 N64-32482 23-26

PROPELLANT GRAIN
CF SOLID PROPELLANT
X-RAY TESTING OF STRUCTURAL STRAIN ON SOLID PROPELLANT GRAINS
AD-423571 N64-12177 03-26

EFFECTIVE GAUGE LENGTH OF BONDED-END TENSILE SPECIMEN AND HEAT CONDUCTION IN STAR-PERFORATED SOLID PROPELLANT GRAINS
P-63-20 N64-12984 04-20

GRAIN PROCESSING OF HIGH TEMPERATURE RESISTANT PROPELLANTS
RTD-TDR-63-4209 N64-16080 07-26

FORCE VIBRATIONS OF CASE-BONDED SOLID PROPELLANT GRAINS
AD-434192 N64-18373 10-33

MIXED BOUNDARY VALUE PROBLEMS - SHRINKAGE & STRESS ANALYSIS OF PROPELLANT GRAINS
AD-600546 N64-21466 14-20

FORM FUNCTIONS FOR DUAL COMPOSITION INCREMENTS OF PROPELLANT GRAINS
R-1692 N64-26865 18-26

OPTIMIZATION OF SOLID ROCKET PROPULSION SYSTEMS AND THREE-DIMENSIONAL GRAIN DESIGNS
CPIA-PUBL-35 N64-30563 22-27

METHOD OF CONFORMAL MAPPING AND DETERMINATION OF STRESSES IN SOLID PROPELLANT ROCKET GRAINS
S-46 N64-32958 24-26

PROPELLANT OXIDIZER
HIGH ENERGY OXIDIZERS IN SOLUTION AND IDENTIFICATION OF PRODUCTS FORMED BY REACTION WITH BASIC AND ACIDIC IONS
AD-423094 N64-12973 04-26

HIGH ENERGY OXIDIZERS IN SOLUTION - HYDROGEN FLUORIDE AND NITROGEN FLUORIDE
AD-430938 N64-16888 08-07

IONIZATION OF HIGH ENERGY OXIDIZERS - MEASUREMENT OF CONDUCTIVITY OF NITROGEN FLUORIDE IN HYDROGEN FLUORIDE
AD-439413 N64-20851 14-26

CHLORINE TRIFLUORIDE COMPLEXES AS HIGH ENERGY OXIDIZERS
QTSR-1 N64-22542 15-07

COMPATIBILITY AND CORROSION RATES OF WELDED ALLOYS WITH HIGH ENERGY OXIDIZERS - CHLORINE TRIFLUORIDE AND PERCHLORYL FLUORIDE
ML-TDR-64-22 N64-26689 18-07

HANDLING OF HIGH ENERGY FUEL OXIDIZERS AND TOXIC MATERIALS IN CONFINED AREAS
NSL-64-244 N64-33368 24-17

PROPELLANT STORABILITY
PROPELLANT STORABILITY IN SPACE
RPL-TDR-64-22 N64-16971 09-26

APPLICATION OF STORABLE PROPELLANTS TO SPACE FLIGHT - PROPELLANT REQUIREMENTS AND SPACE ENVIRONMENTAL FACTORS N64-32052 23-26

PROPELLANT STORAGE
CHEMICAL METHOD OF PROPELLANT TANK PRESSURIZATION
FTC-CR-63-23 N64-14687 06-27

SIMULATED SPACE ENVIRONMENTAL TESTING OF TANKAGE SYSTEMS FOR LONG TERM PROPELLANT STORAGE IN SPACE
RPL-TDR-64-56 N64-19689 12-10

ELECTROTHERMAL ENGINE PROPELLANT STORAGE AND FEED SYSTEM
NASA-CR-52 N64-22017 15-26

LIQUID HYDROGEN AS PROPELLANT IN ELECTROTHERMAL ENGINE - HYDROGEN STORAGE AND EXPULSION
N64-25021 17-26

CRYOGENIC EQUIPMENT DEVELOPMENT FOR SPACE - LONG TERM STORAGE OF LIQUID PROPELLANTS AND ELECTRONIC EQUIPMENT REFRIGERATION N64-26018 18-13

FIRING INSTABILITY OF AGED ROCKET PROPELLANTS AND IMPROVED STORAGE STABILITY OF POLYURETHANE BINDERS
ML-TDR-64-65 N64-27640 19-19

EXTRATERRESTRIAL ENVIRONMENTS, VEHICLE SYSTEMS FOR INTERPLANETARY FLIGHT, LANDING PROPULSION SYSTEMS, LUNAR LANDING IMPACT DEVICES, AND PROPELLANT STORAGE
NASA-CR-58035 N64-29187 21-29

CREDIBLE CATASTROPHIC EVENTUALITIES FROM PROPELLANT TRANSPORTATION, ROCKETS, AIRCRAFT AND WEATHER CONTROL
NASA-CR-58145 N64-30504 22-16

HANDLING AND STORAGE OF LIQUID PROPELLANTS AND OXIDIZERS
AD-442849 N64-30556 22-26

PROPELLANT TANK
CF FUEL TANK
COMPATIBILITY OF PACKAGEABLE ROCKET PROPELLANTS WITH TANK MATERIALS
PA-TR-3115 N64-12643 04-18

THERMAL ANALYSIS AND STRUCTURAL DESIGN OF PROPELLANT TANK FOR SPACE STORAGE
AD-425957 N64-12862 04-26

DESIGN, EXPERIMENTAL MEASUREMENT, & ANALYSIS OF THERMAL PROTECTION SYSTEMS FOR LIQUID HYDROGEN TANKS
NASA-CR-55252 N64-13403 04-13

CHEMICAL REACTION OF PROPELLANT TANK MATERIAL WITH ROCKET FUEL AND OXIDIZERS
NASA-TN-D-1882 N64-17152 09-26

HIGH STRENGTH AND HIGH TOUGHNESS TITANIUM BASE ALLOY FOR LIQUID HYDROGEN PROPELLANT TANK
SM-44674 N64-18709 11-18

FUNCTIONAL FEATURES OF LIQUID HYDROGEN TANK FOR ARC-JET FEED SYSTEM N64-25023 17-26

TITANIUM ALLOY WITH EXTRA LOW INTERSTITIAL CONTENT - LIGHTWEIGHT LIQUID HYDROGEN TANK N64-25024 17-26

MECHANICAL SUPPORT SYSTEM FOR INNER LIQUID HYDROGEN TANK OF ARC JET FEED SYSTEM N64-25025 17-26

METEOROID HAZARD TO LIQUID HYDROGEN STORAGE TANKS - PROTECTIVE MEASURES N64-25026 17-26

THERMAL RADIATION INCIDENT ON LIQUID HYDROGEN TANK DURING TRANSFER ORBIT N64-25027 17-26

THERMAL PROTECTION SYSTEM FOR LIQUID HYDROGEN STORAGE VESSEL N64-25028 17-26

ELECTRIC PROPULSION SYSTEM TANKAGE DESIGN FOR ZERO GRAVITY RESTART AND LOW GRAVITY OPERATION
ASD-TDR-63-506 N64-26813 18-27

EXPERIMENTAL SLOSHING CHARACTERISTICS AND MECHANICAL ANALOGY OF LIQUID SLOSHING IN SCALE MODEL CENTAUR LIQUID OXYGEN TANK
NASA-TM-X-999 N64-26838 18-11

PERFORMANCE OF TITANIUM ALLOY TANKAGE FOR CRYOGENIC LIQUID PROPELLANTS
SM-43116 N64-27409 19-17

JUNCTION ANALYSIS FOR INTERSECTION OF FUEL TANK WALL, DOME, AND SKIRT STRUCTURE OF ROCKET PROPELLED BOOSTER VEHICLE
RR-51 N64-28004 20-34

LIQUID SLOSHING IN COMPARTMENTED PROPELLANT TANKS DUE TO BENDING EXCITATION
NASA-TM-X-51944 N64-28831 20-11

THERMAL STRATIFICATION OF LIQUID HYDROGEN IN ROCKET PROPELLANT TANKS
ER-6759 N64-29672 21-11

MATHEMATICAL MODEL FOR VORTEX FLOW BEHAVIOR FROM PROPELLANT TANK
NASA-CR-59255 N64-33287 24-11

PROPELLANT TRANSFER
ANALYSIS OF PRESSURE AND FLOW PERTURBATIONS PRODUCED IN PROPELLANT FEED SYSTEMS
NASA-TN-D-2409 N64-26777 18-11

PROPELLER
CORONA THRESHOLD DISCHARGE STUDY OF AIRCRAFT PROPELLER NOISE REDUCTION
SRI-TR-77 N64-11443 03-08

STATIC FORCE AND MOMENT COEFFICIENTS FOR ISOLATED DUCTED PROPELLER
AD-428819 N64-15296 07-03

PROPELLER BLADE VIBRATION AND STRESS ANALYSIS - IBM 7090 PROGRAM
TECH. REPT.-283 N64-15421 07-03

LIFTING-SURFACE PROPELLER DESIGN METHOD FOR IBM 7090 COMPUTER
NAVWEPS-8442 N64-16964 09-03

WIND TUNNEL TESTS OF AERODYNAMIC STABILITY AND CONTROL CHARACTERISTICS OF VTOL AIRCRAFT POWERED BY FOUR DUCTED TANDEM PROPELLERS
NASA-TN-D-2254 N64-17750 09-04

PROPULSIVE EFFICIENCY, CAVITATION CHARACTERISTICS, AND BOUNDARY LAYER INTAKE DESIGN FACTORS FOR HYDRODYNAMIC SHROUDED PROPELLER - PUMPJET
NOW-63-0209-C-7 N64-20904 14-17

SHIP PROPULSION - CONTROLLABLE PITCH PROPELLERS
JPRS-25147 N64-22740 16-04

WATER TUNNEL PERFORMANCE OF SUPERCAVITATING PROPELLER
DTMB-1432 N64-24850 17-03

WIND TUNNEL INVESTIGATION OF EFFECTS OF THRUST, SHROUD LENGTH, AND SHROUD CAMBER ON STATIC STABILITY CHARACTERISTICS OF SHROUDED PROPELLERS
DTMB-AERO-1073 N64-24882 17-02

PROPELLERS, CAVITATION, SHIP MANEUVERABILITY, AND HYDRODYNAMICS RESEARCH IN SWEDEN
SSPA-AR-8 N64-24961 17-10

STATIC AERODYNAMIC CHARACTERISTICS, STABILITY DERIVATIVES, & INTERFERENCE FOR DUCTED PROPELLERS
VIDYA-112 N64-25790 17-03

FORCES AND MOMENTS DUE TO PROPELLERS OF ARBITRARY CONFIGURATION INCLINED WITH RESPECT TO FREE-STREAM
ADR-01-03-63.2 N64-25836 18-03

CALCULATING STRENGTH OF SCREW PROPELLER BLADES FOR SHIPS USED IN ICE NAVIGATION
JPRS-25936 N64-26877 18-34

V/STOL AIRCRAFT - HELICOPTERS AND CONFIGURATIONS OF PROPELLERS, DUCTED FANS, AND JETS N64-27070 19-04

DYNAMIC LOAD ON PROPELLER BLADES OF SHIP IN ICE CONDITIONS
JPRS-26033 N64-27616 19-33

FATIGUE TESTS OF NORMAL & CHROMED T-56 JET ENGINE PROPELLER SHAFTS
AD-603142 N64-33433 24-17

PROPELLER DRIVE
AERODYNAMICS OF TILT-WING PROPELLER DRIVEN V/STOL CONFIGURATION
NASA-TN-D-1586 N64-31221 22-03

PROPELLER EFFICIENCY
WAKE-ADAPTED PROPELLERS IN OPEN-WATER & PROPULSION CONDITIONS - PERFORMANCE DETERMINED BY THEORY AND EXPERIMENT
DTMB-1777 N64-13782 05-27

OPTIMUM EFFICIENCY OF LARGE-HUB PROPELLERS FOR APPLICATION TO TANDEM PROPULSION OF SUBMERGED BODY OF REVOLUTION
DTMB-1826 N64-31664 23-11

PROPELLER SLIPSTREAM
USE OF SCALE MODEL TO CONTROL FUSELAGE RESPONSE TO ACOUSTIC EXCITATION FROM PROPELLER SLIPSTREAM N64-29269 21-33

PROPERTY
S CHEMICAL PROPERTY
S ELASTIC PROPERTY
S ELECTRIC PROPERTY
S MAGNETIC PROPERTY
S MECHANICAL PROPERTY
S OPTICAL PROPERTY
S PARTICLE PROPERTY
S PHYSICAL PROPERTY
S THERMAL PROPERTY
S THERMODYNAMIC PROPERTY
S THERMOPHYSICAL PROPERTY
S TRANSPORT PROPERTY

PROPIONIC ACID
INHIBITION AND ENHANCEMENT OF RADIATION EFFECTS ON BIOLOGICAL SYSTEMS WITH AMIDES OF ACRYLIC AND PROPIONIC ACIDS N64-18411 10-16

PROPORTIONAL COUNTER
PROPORTIONAL COUNTERS CONTAINING BORON TRIFLUORIDE FOR DETECTING WEAK NEUTRON FLUXES IN PRESENCE OF GAMMA RADIATION

EUR-300.F N64-10035 01-23

PROPULSION
SA ENGINE
SA SHIP PROPULSION
SA SPACECRAFT PROPULSION
SA THRUST
COMBUSTION & PROPULSION ENGINES AND POWER-MASS RATIOS IN AERONAUTICS N64-11879 03-27

COMPILATION OF REPORTS ON SYSTEMS, GUIDANCE, CONTROL, ENGINEERING AND MATERIALS, FACILITIES, PROPULSION, TELECOMMUNICATIONS, AND SPACE SCIENCE
NASA-CR-53001 N64-13262 04-01

FORCES PRODUCING SELF-LOCOMOTION IN RIGID, SINGLE-HINGED, & DOUBLE-HINGED SWIMMING HYDROFOILS
NOTS-TP-3342 N64-13649 05-11

SPACE FLIGHT SUPPORTING PROGRAMS - GUIDANCE & CONTROL, PROPULSION, POLYMER PHYSICS, TELECOMMUNICATIONS, AND AERODYNAMICS
NASA-CR-53054 N64-14896 06-01

GROUND EFFECTS MACHINE TO PROVIDE SUSPENSION AND PROPULSION OF VEHICLES AT HIGH FORWARD SPEEDS
AROD-2566-6 N64-16851 08-04

PROPULSION, AERODYNAMICS, TURBULENT FLOW, AND COMBUSTION AT HYPERSONIC SPEEDS
N64-18719 11-27

MAGNETOHYDRODYNAMICS OF PARTIALLY IONIZED GASES - PROPULSION AND POWER GENERATION - SQUID PROJECT
N64-18865 11-24

HYDRODYNAMICS AND AERODYNAMICS OF OSCILLATING WING PROPULSION IN UNIFORM FLOW
AD-436778 N64-20137 13-03

SPACE PROGRAM SUMMARY - SYSTEMS, GUIDANCE AND CONTROL, ENGINEERING, PROPULSION, SPACE SCIENCES, AND TELECOMMUNICATIONS RESEARCH
NASA-CR-56175 N64-20816 14-01

PROPULSIVE EFFICIENCY, CAVITATION CHARACTERISTICS, AND BOUNDARY LAYER INTAKE DESIGN FACTORS FOR HYDRODYNAMIC SHROUDED PROPELLER - PUMPJET
NOW-63-0209-C-7 N64-20904 14-17

PROPULSION OF TEST VEHICLE IN TUBE - FLOW DISTURBANCES & ENERGY TRANSFORMATIONS
TR-AE-6404 N64-22895 16-27

BIBLIOGRAPHY ON AIR FORCE ROCKET PROPULSION LABORATORY
RPL-TDR-64-53 N64-23879 16-27

AERODYNAMICS, PROPULSION, AND STRUCTURE OF SPACECRAFT - AIRFLOW, THERMAL TRANSFER, AND STRESS
N64-25182 17-01

ORBITAL PLANE-CHANGE MANEUVER USING COMBINATION OF AERODYNAMIC AND PROPULSIVE FORCES
SSD-TDR-64-98 N64-26107 18-22

VELOCITY DISTRIBUTION OF PROPELLANT EJECTION AND EFFECT ON PROPULSION EFFICIENCY OF ION ENGINES
NASA-RP-241 N64-26403 18-27

APPROXIMATE ANALYTICAL SOLUTIONS FOR LOW THRUST PROPULSION PROBLEMS
VKI-TN-16 N64-27514 19-27

PROPULSION REQUIREMENTS FOR SOFT LANDING IN EXTRATERRESTRIAL ENVIRONMENT
NASA-CR-58034 N64-27803 19-29

PRELIMINARY DESIGN OF ONE MAN PROPULSION DEVICE FOR LUNAR AND FREE SPACE ENVIRONMENTS
NASA-CR-58169 N64-27897 20-27

PROPERTIES OF HIGH TEMPERATURE GASES AND FLUIDS, COMBUSTION AND PROPULSION PROCESSES, AND COMBUSTION STUDIES IN SOLID AND LIQUID PROPELLANT ROCKET ENGINES N64-28176 20-11

BOOSTER PARAMETRIC DESIGN METHOD FOR PERFORMANCE AND TRAJECTORY ANALYSIS - PROPULSION
NASA-TM-X-53053 N64-29178 21-27

OPERATING CHARACTERISTICS OF REPETITIVELY PULSED TWO-STAGE COAXIAL PLASMA PROPULSION ENGINE
NASA-CR-54064 N64-31453 23-27

OPTIMUM EFFICIENCY OF LARGE-HUB PROPELLERS FOR APPLICATION TO TANDEM PROPULSION OF SUBMERGED BODY OF REVOLUTION
DTMB-1826 N64-31664 23-11

PROPULSION DEVELOPMENT PROBLEMS OF SATURN I AND SATURN V LIQUID ROCKET VEHICLES
NASA-TM-X-53075 N64-32486 23-31

PROPULSION SYSTEM
SA ROCKET ENGINE
PROPULSION AND GUIDANCE & CONTROL TESTING OF ATLAS CENTAUR LAUNCH VEHICLE
NASA-CR-52697 N64-11102 02-30

SELECTION OF OPTIMUM TYPE & CONFIGURATION OF PROPULSION SYSTEM FOR SUPERSONIC TRANSPORT
SAE-PAPER-586A N64-11434 02-27

CONTEMPORARY AND FUTURE ROCKET PROPULSION SYSTEMS
FTD-TT-63-455/1626364 N64-16040 07-27

ORBITAL TRANSFER OF SATELLITE FROM 200-KM CIRCULAR ORBIT TO TWENTY-FOUR HOUR EQUATORIAL ORBIT UNDER OPTIMAL CONDITIONS - PROPULSION SYSTEM
DFL-205 N64-16202 08-06

HANDBOOK OF FUNDAMENTAL OPERATING PRINCIPLES OF BALLISTIC MISSILE PROPULSION SYSTEMS AND PROPELLANTS
AMCP-706-282 N64-16616 08-26

PNEUMATIC JET RELAY SYSTEM FOR PROPULSION SYSTEM CONTROL
DSR-9159-1 N64-16853 08-27

ROCKET ENGINE ANALYZER AND DECISION INSTRUMENTATION - ROCKET PROPULSION SYSTEMS
NASA-CR-55842 N64-17675 09-30

THERMODYNAMIC PROPERTIES OF ROCKET SOLID PROPULSION SYSTEMS
CPIA-44, VOL. 1 N64-18801 11-13

GAS TURBINES USED IN AIRCRAFT PROPULSION SYSTEMS
JPRS-24549 N64-19888 12-27

PROPULSION IMPROVEMENTS ACHIEVED DURING FLIGHT TESTING OF SATURN LAUNCH VEHICLES
AIAA PAPER-64-537 N64-19890 12-27

ABLATION MATERIALS FOR NOZZLES, THERMAL INSULATORS AND INERT COMPONENTS OF MISSILE PROPULSION SYSTEMS
NOLTR-63-255 N64-20348 13-27

TRANSDUCERS, TELEMETRY SYSTEMS, AND POWER SOURCES USED IN PROPULSION TEST VEHICLES
CARDE-TN-1518/63 N64-20625 13-15

CONTROLLED THERMONUCLEAR REACTIONS FOR SPACE PROPULSION ENERGY SOURCE
ASD-TDR-63-696 N64-21793 15-27

POTENTIALITIES OF RADIOACTIVE ISOTOPE ELECTROSTATIC PROPULSION SYSTEM
AIAA PAPER-63-048A N64-22252 15-27

NUCLEAR ROCKETS USED FOR ADVANCED PROPULSION SYSTEMS
AIAA PAPER-64-388 N64-23231 16-27

ELECTROMAGNETIC PROPULSION SYSTEM FOR SPACE FLIGHT
DFL-232 N64-25599 17-23

LAUNCH VEHICLE TECHNOLOGY SUMMARY - STRUCTURE, GUIDANCE, ENGINES, PROPELLANTS, TESTING, CHECKOUT, AND LAUNCH OPERATIONS
AIAA PAPER-64-527 N64-25894 18-31

SYSTEMS ANALYSIS, MECHANICS, GUIDANCE AND CONTROL, PROPULSION, AND COMMUNICATION SYSTEM STUDIES
NASA-CR-58131 N64-26369 18-29

ONE-MAN PROPULSION DEVICE FOR LUNAR AND FREE SPACE ENVIRONMENTS
NASA-CR-58172 N64-26579 18-27

MAGNETOGASDYNAMIC ROCKET FOR SPACE PROPULSION
NASA-CR-54040 N64-26583 18-27

X-RAY AND REFLECTANCE REFRACTOMETER AND OTHER INSTRUMENTS USED IN PROPELLANT PROCESSING FOR POLARIS PROPULSION SYSTEM
REPT.-0178-07M-10 N64-26642 18-26

PROPULSION SYSTEM, GROUND RESONANCE AND STRUCTURE STATIC TESTING FOR XV-5A AIRCRAFT
QTPR-8 N64-26656 18-04

ELECTRIC PROPULSION - APPLICATION TO SPACE FLIGHT
N64-26993 19-27

MECHANICS OF COSMIC FLIGHT WITH PROPULSION SYSTEM LIMITATIONS OF POWER OR TIME - OPTIMAL CONTROL
N64-27988 20-27

LUBRICATION RESEARCH AND TESTING METHODS FOR AEROSPACE PROPULSION SYSTEM
APL-TDR-64-50 N64-28276 20-17

ADVANCED PROPULSION SYSTEMS FOR INTERPLANETARY FLIGHTS
NASA-TM-X-51888 N64-28996 20-27

EXTRATERRESTRIAL ENVIRONMENTS, VEHICLE SYSTEMS FOR INTERPLANETARY FLIGHT, LANDING PROPULSION SYSTEMS, LUNAR LANDING IMPACT DEVICES, AND PROPELLANT STORAGE
NASA-CR-58035 N64-29187 21-29

SYNTHESIS AND SELECTION OF PROPULSION SYSTEMS FOR SUBMARINES
MEL-67-64 N64-29238 21-27

PULSE REACTOR ENGINE FOR HIGH PERFORMANCE LIFT-PROPULSION SYSTEMS WITH NO MOVING PARTS
ARD-308 N64-29411 21-27

POWER REQUIREMENTS FOR PROPULSION OF VEHICLE IN TUBE IN RELATION TO VEHICLE SPEED, PROPULSION MODE, AND BLOCKAGE RATIO
TR-AE-6404 N64-30407 22-02

OPTIMIZATION OF SOLID ROCKET PROPULSION SYSTEMS AND THREE-DIMENSIONAL GRAIN DESIGNS
CPIA-PUBL-35 N64-30563 22-27

STATIC TESTING OF LIFT FAN - PROPULSION AND ATTITUDE CONTROL SYSTEMS PERFORMANCE
TCREC-TR-62-21 N64-31128 22-03

PROPULSION ENGINE TEST CELL AS COMBINATION EJECTOR - DIFFUSER AND HIGH VACUUM CHAMBER FOR PROPULSION TESTING
AEDC-TDR-64-138 N64-31137 22-10

FACILITY FOR TESTING ROCKET PROPULSION SYSTEMS USING HIGH ENERGY, TOXIC, HYPERGOLIC PROPELLANTS UNDER SIMULATED SPACE ENVIRONMENT
RTD-TDR-63-1083 N64-31171 22-10

TEST PLAN FOR X-22A AIRCRAFT - DESCRIPTIONS AND SPECIFICATIONS FOR PROPULSION SYSTEM, FLIGHT CONTROL, HYDRAULIC SYSTEM, ELECTRIC SYSTEM, AND INSTRUMENTATION
REPT.-2127-931001 N64-31306 22-04

CRITICAL-COMPONENT-CONTROL PROGRAM FOR GEMINI LAUNCH VEHICLE PROPULSION SYSTEM
AFBM-58-1 N64-31586 23-17

RELIABILITY PROGRAM FOR GEMINI PROPULSION SYSTEM
REPT.-0788-PP-1-R N64-31587 23-17

WIND TUNNEL AND GROUND TEST PLANS FOR PROPULSION SYSTEM OF XV-5A LIFT FAN FLIGHT RESEARCH AIRCRAFT
QTPR-9 N64-32148 23-04

EXHAUST NOZZLE NOISE STUDIES FOR PROPULSION SYSTEM OF SUPERSONIC TRANSPORT
QPR-4. N64-32465 23-27

POROUS TUNGSTEN IONIZERS FOR ELECTRIC PROPULSION SYSTEM
AIAA PAPER-64-691 N64-32723 24-27

MISSION ANALYSIS FOR SOLAR HEATED HYDROGEN PROPULSION SYSTEM - SYSTEM WEIGHT ANALYSIS
NASA-CR-59332 N64-33809 24-27

COMPARATIVE PROPULSION SYSTEMS AND ENERGY REQUIREMENTS FOR SPACE MANEUVERS - MISSION ANALYSIS OF SOLAR HYDROGEN PROPULSION SYSTEMS
NASA-CR-59366 N64-33917 24-27

PROPULSION SYSTEM PERFORMANCE
PROPULSION AND GUIDANCE & CONTROL TESTING OF ATLAS CENTAUR LAUNCH VEHICLE
NASA-CR-52697 N64-11102 02-30

LUNAR MISSION PERFORMANCE EVALUATION PROCEDURE FOR ORBIT-LAUNCHED VEHICLES WITH NUCLEAR PROPULSION SYSTEM
NASA-TN-D-2157 N64-18955 11-30

COMBINING VARIOUS TYPE AIRCRAFT ENGINES FOR GREATER EFFICIENCY AND EFFECTIVENESS
FTD-TT-63-957/1&2 N64-19750 12-27

PROPYLENE
COLUMN ELUTION FRACTIONATION & THERMAL DEGRADATION OF POLYOXYPROPYLENE GLYCOL-TOLUENE DIISOCYANATE POLYMERS
NASA-CR-53993 N64-20609 13-07

CATALYSIS CHROMATOGRAPHY OF PROPYLENE HYDROGENATION ON NICKEL-SILICON DIOXIDE
N64-20927 14-07

CHARACTERISTICS OF LITHIUM ELECTRODE & LEWIS ACID-PROPYLENE CARBONATE ELECTROLYTES
N64-22888 16-06

RAPID SCANNING X-RAY DIFFRACTION FOR STUDY OF ISOTHERMAL CRYSTALLIZATION RATE FOR POLYPROPYLENE FILMS
ONR-TR-58 N64-25030 17-25

MICROWAVE SPECTRUM, BARRIER TO INTERNAL ROTATION, AND QUADRUPOLE COUPLING CONSTANTS OF CIS-1-CHLOROPROPYLENE
NASA-CR-58578 N64-29404 21-07

PROSTHETICS
UPPER EXTREMITY PROSTHETICS, SENSORY MOTOR CONTROL AND HUMAN PERFORMANCE IN TRACKING
REPT.-64-30 N64-33689 24-14

PROTACTINIUM
ALPHA DECAY OF PROTACTINIUM ISOTOPES
UCRL-11082 N64-14070 05-23

CHEMICAL EXTRACTION AND SEPARATION OF PROTACTINIUM BY VARIOUS SOLVENTS AND METHODS OF PRECIPITATION
TID-7675 N64-15651 07-07

SEPARATION & ION EXCHANGE BEHAVIOR OF PROTACTINIUM IN TRIBUTYL PHOSPHATE WITH NITRIC ACID, XYLENE, OR KEROSENE SOLUTIONS N64-15652 07-07

PROTACTINIUM SEPARATION FROM THORIUM BY TRIBUTYL PHOSPHATE SOLVENT OR VYCOR GLASS ADSORPTION
N64-15653 07-07

PROTACTINIUM STABILITY IN THORIUM NITRATE-NITRIC ACID SOLUTIONS N64-15654 07-07

PEROXIDE PRECIPITATION OF PROTACTINIUM AND URANIUM FROM THORIUM NITRATE-NITRIC ACID SOLUTIONS
N64-15655 07-07

RAMAN AND INFRARED SPECTROSCOPY DETERMINATION OF PROTACTINIUM SPECIES IN PROTACTINIUM-HYDROFLUORIC ACID SYSTEM N64-15657 07-07

SOLUBILITY, AMINE EXTRACTION, & ION EXCHANGE OF PROTACTINIUM IN SULFATE & SULFURIC ACID
N64-15659 07-07

PROTACTINIUM EXTRACTION FROM HYDROCHLORIC ACID BY DIISOBUTYLCARBINOL N64-15660 07-07

HYDROLYSIS AND RESIDUE ADSORPTION METHODS FOR SEPARATION OF PROTACTINIUM-231 & PROTACTINIUM-231 DECAY PRODUCTS N64-15661 07-07

BEHAVIOR OF PROTACTINIUM IN HYDROCHLORIC-HYDROFLUORIC ACID SOLUTIONS N64-15662 07-07

CHEMICAL RESEARCH ON PROTACTINIUM EXTRACTION, METALLIC PROTACTINIUM PREPARATION, AND NUCLEAR REACTIONS OF PROTACTINIUM N64-15663 07-07

EFFECT OF NITRIC ACID, THORIUM, FLUORIDE, AND ALUMINUM ON PROTACTINIUM ADSORPTION BY UNFIRED VYCOR GLASS
ORNL-3599 N64-19237 11-07

PROTECTION
SA THERMAL PROTECTION
CF INSULATION
CORROSION AND PROTECTION OF MATERIALS - BIBLIOGRAPHIC INDEX
JPRS-18939 N64-10808 02-19

RESPIRATORY PHYSIOLOGY DURING FORWARD ACCELERATION AND PROTECTIVE MEASURES N64-13461 05-16

KA-BAND CRYSTAL PROTECTOR
AD-431647 N64-21532 15-09

WIND PROTECTION FOR RADIOSONDE BALLOONS
FTD-TT-63-708/1&2 N64-22658 15-15

HEALTH PROTECTION DEVELOPMENTS IN USSR
JPRS-24840 N64-22728 16-16

NAVIGATION AIDS FOR FIGHTER AIRCRAFT IN PROTECTION OF GROUND FORCES
FTD-TT-62-1704/1 N64-23288 16-22

PATHOLOGY AND PHYSIOLOGY OF ADAPTIVE CONTROL AND PROTECTION MECHANISMS IN ANIMALS
FTD-TT-62-1548/1&2&4 N64-23463 16-16

LIGHTNING PROTECTION FOR AIRCRAFT FUEL SYSTEMS
FAA-ADS-17 N64-26277 18-04

FILM PROTECTED CONVECTIVELY COOLED NOZZLES
U-2621 N64-26977 19-02

PHYSIOLOGICAL REQUIREMENTS FOR PROTECTION AGAINST ATMOSPHERIC PRESSURE CHANGES
FPRC/MEMO-201 N64-28698 20-16

DESIGN OF PROTECTIVE METEOR SHIELDS
N64-29295 21-34

EMERGENCY ABANDONMENT OF AIRCRAFT - CREW RESCUE, PROTECTIVE EQUIPMENT, AND SURVIVAL EQUIPMENT
FTD-TT-63-420 1&2 N64-29857 21-16

PROTECTIVE CLOTHING
SA FLIGHT CLOTHING
SA SPACE SUIT
RESTRAINT & PROTECTION OF HUMAN EXPERIENCING SMOOTH OR OSCILLATING ACCELERATIONS SIMULATING SPACE FLIGHT N64-13459 05-16

HAZARD TO PERSONNEL WEARING TORN PROTECTIVE CLOTHING WHILE EXPOSED TO VAPOROUS ROCKET PROPELLANTS
AD-431540 N64-21673 15-16

PHYSICAL CHARACTERISTICS OF PRESSURIZED SUITS EXPOSED TO SIMULATED DYNA-SOAR MISSION CONDITIONS
AMRL-TDR-64-36 N64-28565 20-16

STATISTICAL ANALYSIS OF PILOT HEIGHT-WEIGHT DATA FOR SIZING OF PROTECTIVE CLOTHING
AMRL-TDR-64-66 N64-31842 23-16

PROTECTIVE COATING
ABLATIVE COATING FOR SHORT TERM THERMAL PROTECTION
CPD-57 N64-10316 01-17

ANTICORROSION COATINGS FOR PETROLEUM STORAGE TANKS
JPRS-17742 N64-10716 02-26

STRENGTH OF BRAZED JOINTS OF TITANIUM WITH OTHER METALS AND ELECTROPLATED PROTECTIVE COATINGS
JPRS-22096 N64-11271 02-18

BIBLIOGRAPHY - REFRACTORY INORGANIC COATINGS FOR TEMPERATURES OVER 2500-DEG C
NASA-TM-X-51209 N64-11338 02-33

PROTECTIVE COATINGS FOR REFRACTORY METALS IN ROCKET ENGINES
NASA-CR-52871 N64-11420 02-17

CRYOGENIC COATING FOR ELECTRICAL CONDUCTORS
NASA-CR-52931 N64-12101 03-19

TOTAL HEMISPHERICAL & NORMAL SPECTRAL EMITTANCES OF OXIDATION PROTECTIVE COATINGS
ASD-TDR-63-269 N64-12663 04-18

METALLIC & CERAMIC REFRACTORY COATING FOR THERMAL PROTECTION OF TITANIUM
AMRA-TR-63-12 N64-13850 05-19

HIGH TEMPERATURE OXIDATION PROTECTIVE COATINGS FOR VANADIUM-BASE ALLOYS
IITRI-B6019-1 N64-14007 05-19

CORROSION PREVENTION FOR ALUMINUM, STEEL AND MAGNESIUM TRIMETAL ASSEMBLIES USING STANNOUS PYROPHOSPHATE COATINGS
RIA-63-3471 N64-14013 05-19

PROTECTIVE COATINGS FOR TANTALUM-TUNGSTEN BASE ALLOYS
RDR-1360-2 N64-14776 06-18

PRACTICAL TECHNIQUES FOR APPLYING PROTECTIVE COATINGS TO REFRACTORY METAL ALLOYS
PF-63-10 N64-14793 06-18

OXIDATION TESTS OF PLATINUM COATINGS - PREPARATION OF COATING FOR NIOBIUM OR MOLYBDENUM ALLOYS AND OF DIFFUSION BARRIER LAYERS
AD-429754 N64-15935 07-18

CORROSION PROTECTION COATINGS FOR F-111 AIRCRAFT FUEL TANKS
FTDM-3126 N64-16637 08-19

LB-2 DIFFUSION COATING OF TANTALUM
A476 N64-17134 09-17

OXIDATION-RESISTANT COATINGS FOR REFRACTORY METALS AND ALLOYS N64-17216 09-18

CONTROL OF STRESS CORROSION CRACKING OF STEELS BY APPLYING PROTECTIVE COATINGS
RIA-63-3890 N64-17317 09-18

HIGH TEMPERATURE OXIDATION PROTECTIVE COATINGS FOR VANADIUM-BASE ALLOYS
IITRI-B6019-2 N64-17477 09-18

CHEMICAL, PHYSICAL, AND MECHANICAL PROPERTIES OF REFRACTORY METALS COATED WITH OXIDATION-RESISTANT COATING
DMIC-195 N64-18185 10-19

OXIDATION RESISTANCE OF PROTECTIVE COATINGS FOR TUNGSTEN AT 2000 DEG C
ASD-TDR-63-744 N64-19307 12-17

HAZARDS OF SATELLITE REENTRY DUE TO AERODYNAMIC HEATING - PROTECTIVE COATINGS & COOLING METHODS
FTD-TT-63-55/1&2 N64-19743 12-30

SCREENING TESTS OF SEALANTS & CORROSION PROTECTION COATINGS FOR F-111 AIRCRAFT INTEGRAL FUEL TANKS
FTDM-3165 N64-20057 13-19

SCREENING TESTS OF CORROSION PROTECTION COATINGS FOR USE IN F-111 AIRCRAFT INTEGRAL FUEL TANKS
FTDM-3211 N64-20065 13-17

DUCTILE COATING FOR OXIDATION PROTECTION OF NIOBIUM AND MOLYBDENUM ALLOYS
BMPR-4 N64-20103 13-17

VANADIUM, NIOBIUM, MOLYBDENUM, AND TUNGSTEN AS OXIDATION-RESISTANT COATINGS FOR REFRACTORY METALS

AD-435100 N64-20287 13-18

PROPERTIES OF SILICON OXIDE PASSIVATION LAYER FOR MICROELECTRONIC DEVICE RELIABILITY N64-20993 14-17

PROTECTIVE COATING FOR NIOBIUM BASE ALLOYS TO BE USED IN RAMJET MISSILE
REPT.-6012 N64-21157 14-18

RHENIUM PROTECTIVE COATING FOR TITANIUM DURING HIGH TEMPERATURE BRAZING N64-21189 14-18

OXIDATION PROTECTIVE COATINGS FOR VANADIUM-BASE ALLOYS
IITRI-86019-3 N64-21556 15-18

ELECTRODEPOSITION OF PROTECTIVE COATINGS OF TUNGSTEN
BM-RI-6454 N64-22121 15-17

ELASTOMERS FOR AIRCRAFT FUEL TANK COATINGS CONTAINING MICROORGANISM RESISTING ADDITIVES
RTD-TDR-63-4195 N64-22282 15-17

QUALITY CONTROL OF PROTECTIVE EMITTANCE COATINGS FOR REFRACTORY ALLOYS ON X-20A AIRCRAFT
D2-81110 N64-22451 15-18

TITANIUM OXIDE COATING ON SINGLE CRYSTAL ALUMINA FIBERS
TR-2 N64-22522 15-18

NONDESTRUCTIVE TESTING OF CERAMIC AND INTERMETALLIC PROTECTIVE COATINGS FOR REFRACTORY METALS
WADD-TR-61-91 , PT. IV N64-22562 15-17

COMPARISON OF HEAT AND CORROSION RESISTANCE OF COATINGS ON MAGNESIUM ALLOY
A731 N64-22577 15-18

DRY FILM LUBRICANT EFFECT ON CORROSION RESISTANCE OF COATED AND UNCOATED ALLOYS
A753 N64-22595 15-17

COATINGS FOR HIGH TEMPERATURE ENVIRONMENTS N64-23213 16-18

CEMENTATION COATING PROCESS FOR HIGH TEMPERATURE PROTECTION OF MOLYBDENUM
PF-61-9 N64-23379 16-18

DEPOSITION OF PYROLYTIC CARBON COATING ON YARN FILAMENT TO INCREASE STRENGTH
AD-437595 N64-24174 16-18

USE OF RUBBER PROTECTIVE COATINGS ON METAL TO PREVENT CORROSION BY HYDROCHLORIC ACID N64-24271 17-07

PAINTS AS PROTECTIVE COATING OF MASONRY AGAINST CORROSION BY HYDROCHLORIC ACID ATMOSPHERES N64-24274 17-19

SCALING OF MODELS WITH RADAR ATTENUATION COATINGS FOR MEASUREMENT OF RADAR REFLECTION PROPERTIES IN ANECHOIC CHAMBER N64-24323 17-08

RADAR COUNTERMEASURE FACILITIES - PROTECTIVE COATINGS, ACTIVE ELECTRONIC COUNTERMEASURES, AND PASSIVE ELECTRONIC COUNTERMEASURES N64-24644 17-09

GROWTH, VACUUM DEPOSITION, AND PROTECTIVE COATING OF CADMIUM TELLURIDE THIN FILM SOLAR CELLS
REPT.-6 N64-25211 17-06

RADIOACTIVE ISOTOPES IN SALT SPRAY TESTING FOR EVALUATION OF METAL SURFACE PROTECTIVE COATINGS
PA-TM-1271 N64-25299 17-18

EXPERIMENTAL AIR DRY CORROSION RESISTANT COATINGS FOR FUEL TANKS
CCL-160 N64-25353 17-26

EVALUATION OF HEAT RESISTANT, RAIN-EROSION-RESISTANT COATING
BMPR 4 N64-25365 17-19

HIGH TEMPERATURE OXIDATION RESISTANT COATING N64-25414 17-19

EFFECT OF ELECTRICAL INSULATION MATERIALS ON PROTECTIVE METAL FINISHES UNDER CONDITIONS OF HEAT AND MOISTURE
RIA-64-728 N64-25513 17-09

OXIDATION RESISTANCE, EMITTANCE, AND DIFFUSION STABILITY OF PROTECTIVE COATINGS FOR AIRCRAFT STRUCTURES
TFD-63-522 N64-25998 18-18

EROSION AND OXIDATION RESISTANT COATING FOR GRAPHITE
REPT.-5-RD-64 N64-26201 18-27

TECHNIQUES FOR EVALUATING HEAT PROTECTION MATERIALS FOR ATMOSPHERIC ENTRY VEHICLES
R64SD24 N64-26562 18-18

TECHNIQUES FOR APPLYING PROTECTIVE COATINGS TO NIOBIUM ALLOYS - FUSED SALT BATH, FLUIDIZED BED AND SLURRY DIP APPLICATION
RTD-TDR-63-4063 N64-26903 18-17

PROCESSING TECHNIQUES FOR HIGH TEMPERATURE OXIDATION RESISTANT PROTECTIVE COATING SYSTEMS N64-27006 19-17

LOW PRESSURE EFFECT ON OXIDATION PROTECTION OF SILICIDE COATINGS ON MOLYBDENUM AND COATING OF MOLYBDENUM COMPONENTS N64-27007 19-17

SILICIDE PROTECTIVE COATING FOR TANTALUM ALLOYS N64-27008 19-17

HIGH TEMPERATURE PROTECTIVE COATINGS FOR REFRACTORY METALS N64-27009 19-17

HIGH TEMPERATURE PROTECTIVE COATING FOR REFRACTORY METALS - TUNGSTEN N64-27010 19-17

PROTECTIVE COATINGS FOR REFRACTORY METALS - MOLYBDENUM, NIOBIUM & TANTALUM ALLOYS N64-27011 19-17

HIGH TEMPERATURE PROTECTIVE COATINGS FOR TANTALUM AND NIOBIUM ALLOYS - REFRACTORY METALS N64-27012 19-17

PROTECTIVE COATING FOR REFRACTORY METAL FOILS N64-27013 19-17

SILICIDE PROTECTIVE COATINGS FOR REFRACTORY METALS N64-27014 19-17

PLASMA-SPRAYED OXIDE & VAPOR-DEPOSITED NITRIDE PROTECTIVE COATINGS ON TUNGSTEN N64-27015 19-17

REFRACTORY METAL PROTECTIVE COATING SYSTEMS FOR HYPERSONIC GLIDER REENTRY VEHICLE N64-27017 19-17

HIGH TEMPERATURE OXIDATION RESISTANT PROTECTIVE COATINGS N64-27018 19-17

HIGH TEMPERATURE OXIDATION RESISTANT PROTECTIVE COATINGS FOR REFRACTORY ALLOYS, COMPOSITE MATERIAL DEVELOPMENT, AND THERMAL RADIATION MEASUREMENT N64-27025 19-18

OXIDATION-RESISTANT PROTECTIVE COATINGS FOR REFRACTORY ALLOYS N64-27030 19-18

OPTIMIZATION OF CHROMIUM-TITANIUM-SILICON COATING PROCESS FOR LABORATORY AND PILOT SCALE COATING FURNACES
ASD TDR-62-934, PT. II N64-27476 19-18

REFRACTORY ELEMENT AS PROTECTIVE COATING FOR EARTH REENTRY VEHICLE N64-27590 19-17

ELECTROCHEMICAL TECHNIQUES FOR PROTECTION OF MARINE STRUCTURES IN SEA WATER
JPRS-26067 N64-27638 19-07

HIGH TEMPERATURE OXIDATION RESISTANT PROTECTIVE

COATINGS FOR VANADIUM ALLOYS
IITRI-86019-4 N64-27861 19-18

OXIDATION RESISTANT COATINGS ON MOLYBDENUM BASE ALLOYS - SILICIDE BASE COATINGS
NASA-TN-D-2040 N64-28332 20-17

HIGH TEMPERATURE PROTECTIVE COATINGS TO CONTROL OXIDATION OF GRAPHITE
ML-TDR-64-173, PT. I N64-28570 20-17

RADIATION RESISTANCE OF POLYVINYL CHLORIDE AND ADHESIVES FOR CEMENTING PROTECTIVE COATINGS TO CONSTRUCTION UNIT SURFACES
JPRS-26001 N64-29119 21-07

ADHESIVES FOR CEMENTING RADIATION PROTECTIVE COATINGS TO CONSTRUCTION UNIT SURFACES
N64-29121 21-07

BINARY HAFNIUM-TANTALUM ALLOY FOR OXIDATION-PROTECTIVE COATING OF TUNGSTEN & TUNGSTEN-ALLOY SUBSTRATES AT VERY HIGH TEMPERATURES
REPT.-25116, VOL. 10 N64-29233 21-18

SILICON-NITROGEN POLYMERS FOR PROTECTIVE COATINGS ON SPACE VEHICLES
NASA-CR-56415 N64-29549 21-07

SCALE UP OF SILICIDE ALLOY COATING TO PROTECT MOLYBDENUM ALLOYS AGAINST HIGH TEMPERATURE OXIDATION
ML-TDR-64-84 N64-29976 21-18

DIFFUSION OF SILICON DURING FORMATION OF SILICIDE COATINGS ON TITANIUM, TANTALUM, MOLYBDENUM, AND IRON
FTD-TT-63-262 N64-29985 21-18

HIGH TEMPERATURE MATERIALS EVALUATION - COATINGS FOR REFRACTORY ALLOYS AND ARC-PLASMA-JET
ML-TDR-64-62 N64-30110 21-17

PROTECTIVE COATINGS FOR REFRACTORY ALLOYS EXPOSED TO THERMAL ENVIRONMENTS
ML-TDR-64-70 N64-30111 21-18

POWDER OR GAS CEMENTATION PROCESS FOR COATING MOLYBDENUM ALLOYS FOR TEMPERATURE PROTECTION
ML-TDR-64-74 N64-30628 22-17

ANNOTATED BIBLIOGRAPHY ON POLYURETHANE PROTECTIVE COATINGS
PDL-50915 N64-30758 22-19

FEASIBILITY OF PYROLYTIC GRAPHITE COATINGS FOR UNCOOLED SOLID PROPELLANT ROCKET NOZZLES
RPL-TDR-64-129 N64-30974 22-17

REFRACTORY MATERIALS FOR HIGH TEMPERATURE OXIDATION-RESISTANT GRAPHITE COATINGS
WADD-TR-61-72, VOL. XXXIV N64-31307 22-17

BONDING FLUORINATED POLYMERS TO UNIMPROVED SURFACE USING PRESSURE SENSITIVE BONDING MATERIALS
NASA-TT-F-9070 N64-31334 22-07

VEHICLE CORROSION PREVENTIVES FIELD TEST IN DETROIT AREA - AIRLESS SPRAY UNIT
AIA-64-661 N64-32167 23-17

PACK SILICIDE AS HIGH TEMPERATURE OXIDATION PROTECTIVE COATING FOR VANADIUM ALLOYS
IITRI-86019-5 N64-32200 23-17

ANNOTATED BIBLIOGRAPHY ON HIGH TEMPERATURE SUPERALLOYS AND PROTECTIVE COATINGS
PDC-SEARCH-63-050 N64-32409 23-18

NEOPRENE PROTECTIVE COATINGS FOR HYDROFOILS
TM-1 N64-32461 23-17

EFFECTIVENESS OF SODIUM, CALCIUM, AND LEAD FATTY ACID PAINTS AGAINST CORROSION
ONRL-47-64 N64-32540 23-18

COLUMBIUM ALLOY THREADED FASTENERS WITH OXIDATION RESISTANT METALLIC COATINGS
PR-3 N64-32655 23-17

ROCKET NOZZLE MATERIALS PROBLEM - REFRACTORY MATERIAL, PROTECTIVE COATINGS, AND COOLING SYSTEM
AMRA-MS-63-06 N64-32692 24-17

OPTIMIZATION OF ELECTRODEPOSITED HIGH TEMPERATURE PROTECTIVE COATINGS FOR ROCKET NOZZLES
N64-32697 24-17

PROTEIN
SA ALBUMIN
SA AVIDIN
SA CHLOROPHYLL
SA ENZYME
SA HEMOGLOBIN
SA PEPTIDE
SA SERUM
CULTIVATION OF UNICELLULAR GREEN ALGAE TO OBTAIN PROTEIN RICH BIOMASSES
JPRS-17433 N64-10476 01-16

INTERACTION OF FREE RADICAL FROM INHIBITORS OF ENZYMES WITH PROTEIN SULFUR COMPOUNDS
N64-10854 02-16

IONIZING RADIATION EFFECT ON LIVER PROTEIN & BIOELECTRIC CURRENT IN MUSCLES
JPRS-18760 N64-11346 02-16

CHEMICAL ANALYSIS AND COMPOSITION OF MITOCHROME AND CYTOCHROME OXIDASE FROM RAT LIVER MITOCHONDRIA
NADC-MA-6319 N64-12255 03-16

TRANSFER OF AMINO ACID STRUCTURE TO RIBOSOMES FROM DESOXYRIBONUCLEIC ACID BY RIBONUCLEIC ACID CODING OF PROTEIN N64-12511 04-16

BIOSYNTHESIS OF UREA IN LIVER AND BLOOD PROTEIN FRACTION AFTER PLUTONIUM-239 INJURY
N64-12571 04-16

ORIGIN & DEVELOPMENT OF RADIATION LESIONS IN BLOOD PROTEIN - INVESTIGATION USING THERMAL PROPERTIES OF BLOOD SOLUTIONS N64-12777 04-16

PROTEIN CONTENT OF BLOOD SERUM DURING ACUTE RADIATION SICKNESS N64-12778 04-16

REACTION OF IRRADIATED PROTEIN RADICALS WITH RADICAL-REACTION INHIBITORS N64-12897 04-16

CRYOGENIC TEMPERATURE & ULTRASONIC VIBRATION EFFECT ON ACTOMYOSIN N64-13693 05-16

PATTERNS OF HIGH- AND LOW-DENSITY ULTRACENTRIFUGAL LIPOPROTEIN DISTRIBUTION IN HEALTHY HUMAN POPULATION N64-15213 07-16

PHOSPHOPROTEIN METABOLISM IN CEREBRAL CORTEX FUNCTIONING
AD-430174 N64-15955 07-16

ELECTRON PARAMAGNETIC RESONANCE STUDY OF RADIOCHEMICAL EFFECTS IN CRYSTALLINE AMINO ACIDS AND PROTEIN TISSUES N64-16903 09-16

NUTRIENT REQUIREMENTS, PROTEIN CONTENT, AND ABILITY TO FIX CARBON DIOXIDE OF PLANT TISSUE CULTURES
AMRL-TDR-63-124 N64-17864 10-16

PHYSICOCHEMICAL PROPERTIES OF CEREBRAL PROTEINS DURING EXCITATION OF NERVOUS ACTIVITY BY CAMPHOR
JPRS-24119 N64-18085 10-16

ELECTRON PARAMAGNETIC RESONANCE OF PARAMAGNETIC CENTERS IN AMINO ACIDS AND PROTEINS DUE TO GAMMA RADIATION
JPRS-23983 N64-18138 10-16

MIGRATION OF ENERGY BETWEEN TRYPTOPHAN RADICALS IN PROTEIN MACROMOLECULE
JPRS-23991 N64-18318 10-16

RIBONUCLEIC ACID IN PROTEIN SYNTHESIS
N64-18330 10-16

EFFECT OF DEUTERIUM OXIDE ON PROPERTIES OF DESOXYRIBONUCLEIC ACID AND PROTEINS
N64-18412 10-16

BIOPHYSICS OF AMINO ACIDS & PROTEINS
JPRS-24046 N64-18517 11-16

CORRELATION OF AMINO ACID RADICALS IN PROTEIN MOLECULES N64-18518 11-16

ELECTRON PARAMAGNETIC RESONANCE SPECTRA OF AMINO ACID & PROTEIN UNDER ULTRAVIOLET LIGHT N64-18519 11-16

RESTORATION OF PLASMA PROTEIN FRACTIONS AFTER BLOOD LOSS & INFUSION WITH POLYGLUCIN N64-18521 11-16

PROTEIN BLOOD SUBSTITUTE BK-8 EFFECT ON COAGULATION DURING BLOOD TRANSFUSION N64-18522 11-16

AMINO ACID COMPOSITION OF PROTEINS N64-18524 11-16

POLYMERIZATION OF AMINO ACIDS TO GIVE PROTEINS AND FORMED MICROPARTICLES N64-19151 11-16

EDIBLE PROTEIN-VITAMIN COMPLEX FOR PROTECTION FROM RADIATION SICKNESS, AND GAMMA RADIATION EFFECT ON VITAMIN CONTENT OF RAT LIVER AND BRAIN
FTD-TT-63-1064/1&2&4 N64-22363 15-16

DETECTING PROTEINS IN TRACE AMOUNTS BY J-BAND ANALYSIS
NASA-CR-56520 N64-22780 16-16

DETECTION OF PROTEIN IN TRACE AMOUNTS BY J-BAND ANALYSIS
NASA-CR-56522 N64-22782 16-16

DYE METHOD FOR DETECTING TRACE AMOUNTS OF PROTEINS BY J-BAND ABSORPTION TECHNIQUE
NASA-CR-56534 N64-22795 16-07

ELECTROPHORESIS CONCENTRATION OF SEPARATED SERUM PROTEIN FRACTIONS N64-22856 16-16

INTERRELATIONSHIPS BETWEEN SERUM LIPIDS, SERUM LIPOPROTEINS, AND LIPOPROTEIN COMPOSITION N64-22860 16-16

LIPID TRANSFER BETWEEN HIGH DENSITY AND VERY LOW DENSITY LIPOPROTEINS N64-22864 16-16

CARBOHYDRATES, PROTEINS, AND LIPID CHEMISTRY OF BLUE-GREEN ALGAE
FTD-TT-63-193/1 N64-23296 16-16

MICROBIOLOGICAL DEWAXING PROCESS YIELDING PROTEIN-VITAMIN CONCENTRATES
NASA-TT-F-233 N64-26836 18-16

ORIGINS OF AMINO ACIDS AND PROTEINS - MOLECULAR EVOLUTION N64-27797 19-16

COMPILATION OF ARTICLES ON MEDICINE - RADIATION SICKNESS, URANIUM POISONING, PROTEIN STABILITY IN BLOOD, RADIOSENSITIVITY, AND RADIATION THERAPY
JPRS-26216 N64-30241 22-16

CHANGES IN FRACTIONAL COMPOSITION & COLLOIDAL STABILITY OF SERUM PROTEINS IN RABBIT BLOOD DURING RADIATION SICKNESS N64-30243 22-16

STABILITY OF THYROID PROTEIN WITH REACTIVE IODINE AS RADIOACTIVE TRACE ELEMENT N64-32011 23-07

THERMOGRAVIMETRIC STUDY OF PROTEIN HYDRATION
RSIC-260 N64-32494 23-07

PROTEIN EXCHANGE IN NERVOUS SYSTEM
JPRS-26846 N64-32747 24-16

PROTEINOID
AMINO ACID COMPOSITIONS OF PROTEINOIDS N64-12944 04-16

DYNAMIC PHENOMENA IN MICROSPHERES FROM THERMAL PROTEINOID N64-19825 12-16

MORPHOLOGY AND CHEMISTRY OF MICROSPHERES FROM PROTEINOID
NASA-TM-X-51514 N64-22772 16-16

BIOLOGY IN PLANETARY & SPACE ENVIRONMENTS - AMINO ACID AND PROTEINOID STUDIES
NASA-CR-50483 N64-22775 16-16

PROTOBIOLOGY
MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS - CATALYSTS AND CATALYTIC ACTIVITY IN INTERMEDIATE SYSTEMS FORMED DURING SYNTHESIS OF LOW MOLECULAR WEIGHT ORGANIC COMPOUNDS
BL-86 N64-22781 16-16

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS - PHOTOCATALYSTS, RADIOCATALYSTS, & LOW MOLECULAR WEIGHT ORGANIC SYNTHESIS
NASA-CR-56531 N64-22792 16-16

PROTON
SA PROTON BEAM
SA PROTON DAMAGE
SA PROTON ENERGY
SA PROTON IMPACT
SA PROTON IRRADIATION
SA PROTON PRECESSION
SA PROTON RESONANCE
SA PROTON SCATTERING
SA RECOIL PROTON
SA SOLAR PROTON
CF CHARGED PARTICLE
CF ELEMENTARY PARTICLE
SPECTRA OF GAMMA RAYS PRODUCED BY HIGH-ENERGY PROTON INTERACTION WITH BERYLLIUM, CARBON, COBALT, OXYGEN, ALUMINUM, & BISMUTH
ORNL-3506, SUMMARY N64-12544 04-23

DETERMINATION OF CHARACTER OF HIGHER RESONANCES IN PION-PHOTOPRODUCTION AND PROTON COMPTON EFFECT BY USING POLARIZED GAMMA RAYS
LNF-63/66 N64-13176 04-23

HIGH ENERGY PROTON OR ELECTRON BEAM FOR ATMOSPHERIC RESEARCH N64-17114 09-21

QUASIFREE PROTON-DEUTERON INELASTIC SCATTERING CORRECTIONS NEAR 210-MEV
UR-875-21 N64-17261 09-23

RADIOACTIVE DECAY OF NUCLEI BY FISSION AND EMISSION OF PROTONS
JPRS-23996 N64-18139 10-23

LOCAL TIME DEPENDENCE OF NON-STORMER CUTOFF FOR 1.5 MEV PROTONS IN QUIET GEOMAGNETIC FIELD
NASA-CR-53584 N64-18437 10-20

ELASTIC SCATTERING OF HIGH ENERGY PROTONS
FTD-MT-63-53/1&2 N64-18756 11-23

SOLID STATE DETECTOR FOR PROTON ENERGY SPECTRUM MEASUREMENTS - SATELLITE INSTRUMENTATION
NASA-CR-53510 N64-19983 12-15

UTILIZATION OF ION BEAM CURRENT FROM HIGH PULSE ARC DISCHARGE IN PROTON SOURCES
FTD-TT-64-330/1&2 N64-21977 15-24

HIGH ENERGY PROTON EFFECT ON SILICON PHOTOCELLS
NASA-TT-F-8820 N64-23040 16-06

HIGH ENERGY GEOMAGNETICALLY TRAPPED PROTONS
UCRL-11409 N64-23226 16-12

COSMIC RAY HYDROGEN AND HELIUM NUCLEI DURING SOLAR QUIET TIME
NASA-RP-203 N64-24083 16-27

EXISTENCE OF DIPROTON WITH FINITE LIFETIME N64-24976 17-23

SHELL THEORY OF PROTON-NEUTRON INTERACTION IN ATOMIC NUCLEUS
USNRDL-TR-723 N64-25213 17-23

RELATIVE BIOLOGICAL EFFECTIVENESS OF NEUTRONS AND PROTONS
FTD-TT-63-1046/1&4 N64-25455 17-14

COMPARISON OF PROTON AND DEUTERON ACCELERATION IN

LINEAR ACCELERATOR
CERN-64-22 N64-25522 17-23

SOURCE OF PROTONS WITH THERMAL DISSOCIATION OF HYDROGEN MOLECULE
FTD-TT-64-522/1&2 N64-26162 18-23

WEAK INTERACTIONS OF VARIOUS COMBINATIONS OF MESONS, POSITRONS, NEUTRINOS, PROTONS, AND NEUTRONS
CERN-64-26 N64-26587 18-23

ENERGY SPECTRA OF PROTONS IN OUTER RADIATION BELT
NASA-TM-X-55007 N64-27247 19-28

PLASMA PROBE FOR MARINER A SPACECRAFT, TO DETERMINE DENSITY, ENERGY SPECTRA, AND DIRECTION OF MOTION OF PROTONS AND ELECTRONS IN PLASMA
NASA-CR-56794 N64-27821 19-32

INELASTIC, DISSOCIATIVE, AND CHARGE EXCHANGE SCATTERING OF PROTONS BY NITROGEN
AFCRL-64-338 N64-29997 21-23

VELOCITY DEPENDENCE AND SOURCE SPECTRA OF SOLAR PROTON EVENTS N64-30284 22-28

INELASTIC ELECTRON-PROTON, POSITRON-PROTON, AND MUON-PROTON SCATTERING
SLAC-25, PT. 2 N64-31058 22-23

POLARIZATION OF PROTONS FROM NUCLEAR REACTION BORON-10 /HELIUM 3, PROTON/ CARBON 12
NOLTR-64-113 N64-31102 22-23

LINEAR ENERGY TRANSFER SPECTRUM OF PROTON EXPOSURE ON MERCURY MISSION MA-9
NASA-CR-58948 N64-31553 23-16

DIFFERENTIAL AND INTEGRAL ENERGY SPECTRA OF ELECTRONS AND PROTONS IN MAGNETOSPHERE DETERMINED BY CORPUSCULAR RADIATION INSTRUMENTATION IN P-11 SUB-SATELLITE N64-31844 23-28

ANALYSIS OF PI PLUS PROTON ELASTIC SCATTERING USING PARTIAL WAVE EQUATION
SLAC-PUB-28 N64-32412 23-23

PROTON BEAM
CF PARTICLE BEAM
RELATIVISTIC ISOCHRONOUS CYCLOTRON - HIGH INTENSITY PROTON ACCELERATOR
ORNL-3540 N64-11314 02-23

PROTON BEAM EXPOSURE OF NUCLEAR EMULSIONS EMBEDDED IN STEEL SHIELD N64-12537 04-23

ENERGY DEPOSITION DISTRIBUTION IN WATER-FILLED PHANTOM BY INTERACTIONS OF 160-MEV PROTON BEAM
ORNL-3457 N64-12546 04-23

SPACE, TIME, AND ENERGY DISTRIBUTIONS OF PROTON BEAM FROM SYNCHROCYCLOTRON N64-12550 04-23

SYNCHROCYCLOTRON PROTON BEAM INTENSITY MONITORING FOR ENERGY SPECTRUM MEASUREMENTS OF NUCLEAR SECONDARIES N64-12551 04-23

FAST PROTON BEAM EXTRACTION FROM SYNCHROTRONS N64-15507 07-23

INTENSITY MEASUREMENT OF PROTON BEAM OF SYNCHROCYCLOTRON WITH THIN HELIUM PLATE IONIZATION CHAMBERS
NASA-CR-53566 N64-18427 10-23

PRINCIPLES OF PROTON SYNCHROTRON THEORY N64-20366 13-23

ION SOURCE WITH 1.5-AMP PROTON EMISSION CURRENT
FTD-TT-64-586/1&2&4 N64-26234 18-23

MEASUREMENTS ON SLOW PROTON-BEAM-EJECTION FROM PROTON SYNCHROTRON
CERN-64-25 N64-26558 18-23

MEASURING YIELDS OF HYDROGEN PEROXIDE PRODUCED IN PURE AERATED WATER BY PROTON BEAMS
LFEN.15 /ALPHA/ N64-30248 22-23

PULSED BEAM TRANSPORT EQUIPMENT FOR EXTERNAL PROTON BEAM OF SYNCHROTRON
CERN-64-35 N64-32671 23-10

PROTON DAMAGE
PROTON DAMAGES IN SILICON SEMICONDUCTOR CRYSTAL STRUCTURE
NASA-CR-40 N64-18952 11-25

PROTON ENERGY
PROTON ENERGY SPECTRUM VARIATION WITH POSITION IN INNER VAN ALLEN BELT
NASA-RP-11 N64-11200 02-28

SECONDARY NUCLEON CROSS SECTIONS FOR REACTIONS OF 160-MEV PROTONS WITH NUCLEI - FLIGHT-TIME SPECTRAL DATA N64-12545 04-23

NEUTRON AND PROTON SPECTRA FROM TARGETS BOMBARDED BY 160-MEV PROTONS N64-12548 04-23

PROTON-RECOIL SPECTROMETERS FOR MEASURING NEUTRON AND PROTON ENERGY SPECTRA FROM 10 TO 450-MEV N64-12553 04-23

EXTRATERRESTRIAL LOW ENERGY PROTONS OVER GEOMAGNETIC POLAR REGIONS
NASA-CR-53180 N64-18480 10-12

GEOMAGNETIC POLAR REGION - ARRIVAL OF EXTRATERRESTRIAL LOW ENERGY PROTONS N64-27209 19-12

PROTON ENERGY DEGRADATION AND FLUX ATTENUATION AS FUNCTION OF PENETRATION DEPTH OF SHIELDING MATERIALS
NASA-TM-X-53063 N64-30510 22-23

PROTON ENERGY SPECTRUM IN AURORAL EMISSION N64-32714 24-12

SOLAR PROTON ACTIVITY OBSERVED BY EXPLORER XII AND XIV SATELLITES
NASA-TM-X-55087 N64-33562 24-28

PROTON IRRADIATION
PROTON AND GAMMA IRRADIATION EFFECT ON FUNCTION OF VESTIBULAR ANALYZER IN DOGS
JPRS-22120 N64-11273 02-16

RESISTANCE OF SILICON SOLAR CELLS TO PROTON AND ELECTRON RADIATION
NASA-TM-X-51189 N64-11382 02-06

COURSE OF RADIATION SICKNESS IN PROTON IRRADIATED MICE N64-15203 07-16

DOSE, PARTICLE ENERGY, AND LINEAR ENERGY TRANSFER /LET/ DISTRIBUTION IN OMNIDIRECTIONALLY PROTON IRRADIATED SPHERICAL LUCITE PHANTOM N64-15204 07-16

ACTIVATION ANALYSIS OF RADIOISOTOPIC NUCLIDES PRODUCED BY NEUTRONS, PROTONS, AND ALPHA & GAMMA RAY REACTIONS
AEET/ANAL/28 N64-15731 07-23

BORON-11 TO CARBON-12 TRANSMUTATION REACTION UNDER PROTON IRRADIATION
KFKI-14/1963/ N64-15987 07-23

PROTON IRRADIATION DAMAGE TO SILICON SOLAR CELLS
NASA-CR-55829 N64-16716 08-06

HIGH ENERGY NEUTRON AND PROTON RADIATION EFFECTS ON LIFESPAN, PERIPHERAL BLOOD, AND RATE OF APPEARANCE OF TUMORS IN RATS
FTD-TT-63-1049/1&2&4 N64-19220 11-16

CARRIER LIFETIME IN ELECTRON & PROTON IRRADIATED GERMANIUM
NASA-CR-53782 N64-19349 12-25

HIGH ENERGY PROTON EFFECT ON BIOLOGIC SYSTEMS - SYNCHROCYCLOTRON STUDIES
NASA-CR-53780 N64-19352 12-01

RADIATION DAMAGE TO SEMICONDUCTOR DEVICES BY HIGH ENERGY ELECTRON AND PROTON RADIATION

NASA-CR-56138 N64-20726 13-25

RADIATION DAMAGE TO SEMICONDUCTORS BY HIGH ENERGY ELECTRON AND PROTON RADIATION
NASA-CR-62 N64-23236 16-09

CURRENT AND VOLTAGE BEHAVIOR OF SILICON CELLS SUBJECTED TO LOW ENERGY PROTON IRRADIATION
N64-29155 21-06

DAMAGE TO SILICON AND GALLIUM ARSENIDE SOLAR CELLS FROM LOW ENERGY PROTON IRRADIATIONS
N64-29156 21-06

COMPUTER PROGRAM FOR EVALUATING SPACE RADIATION HAZARDS FROM ENERGETIC PROTONS AND ELECTRONS IN VAN ALLEN BELT
NASA-CR-58293 N64-29364 21-20

COMPUTER PROGRAM TO CALCULATE PROTON RADIATION DOSE THROUGH SHIELDING IN SPACECRAFT
NASA-CR-58298 N64-29369 21-20

COMPUTER PROGRAM FOR EVALUATING SPACE RADIATION HAZARDS - DOSES FROM PROTONS AND THEIR SECONDARY RADIATIONS
NASA-CR-58299 N64-29370 21-20

NUCLEAR REACTION OF LITHIUM 6 UNDER PROTON IRRADIATION TO YIELD HELIUM 3 & ALPHA PARTICLE
N64-30662 22-23

X-RAY EMISSION OF PROTON FLARES - PECULIARITIES AND SPECTRUM HARDENING
NASA-TT-F-8956 N64-30849 22-28

LUNAR LUMINESCENT EXCITATION BY SOLAR PROTONS - BOMBARDMENT OF STONY METEORITES
N64-32077 23-28

BIOLOGICAL EFFECTS OF HIGH ENERGY PROTON IRRADIATION OF HUMANS AND OTHER ANIMALS
NASA-CR-5887 N64-33195 24-16

SURVEY OF PROTON IRRADIATION FACILITIES
SAM-TDR-64-16 N64-33647 24-10

PROTON MAGNETIC RESONANCE
PROTON MAGNETIC RESONANCE OF CYCLOPROPANE DERIVATIVES N64-19580 12-23

PROTON PRECESSION
DIGITAL RECORDING PROTON PRECESSION MAGNETOMETER SYSTEM - COMPUTER PROGRAMS
RR-64-4 N64-30017 21-15

PROTON-PROTON REACTION
PHASE SHIFT ANALYSIS OF PROTON-PROTON REACTION AT 970 MEV
RFP-34 N64-21040 14-23

TRIPLE SCATTERING PARAMETER MEASUREMENT IN PROTON-PROTON SCATTERING
UR-875-48 N64-28511 20-23

PROTUBERANCE
TURBULENT FLOW AND HEAT TRANSFER IN INTERACTION OF SUPERSONIC STREAM AND SURFACE PROTUBERANCE
CR-3 N64-32458 23-11

PSEUDOMONA
EFFECT OF LIGHT INTENSITY ON USE OF CARBON DIOXIDE AND ORGANIC COMPOUNDS DURING PHOTOSYNTHESIS OF CHLOROPSEUDOMONAS ETHYLICUM N64-23433 16-16

PSEUDORANDOM SIGNAL
ALGORITHM FOR COMPUTER GENERATION OF PSEUDORANDOM PERMUTATIONS OF NUMBERS
ONR-RM-93 N64-16864 08-20

LINEAR AND NONLINEAR CORRELATORS FOR PSEUDORANDOM SIGNAL DETECTION
NEL-1219 N64-26341 18-08

PSEUDORANDOM SIGNAL CODES IN COMMUNICATIONS
NASA-CR-58240 N64-28965 20-08

PSYCHIATRY
ORGANIZATION OF NEUROPSYCHIATRIC AIDS IN CITIES
JPRS-23446 N64-15914 07-14

PREDICTION OF PERFORMANCE OF AIR FORCE PERSONNEL REFERRED FOR PSYCHIATRIC EVALUATION
PRL-TDR-63-23 N64-18785 11-14

PSYCHOLOGICAL EFFECT
BIOCHEMICAL ANALYSIS OF PSYCHOLOGICAL EFFECT ON BRAIN ACTIVITY - HUMAN BEHAVIOR
JPRS-18315 N64-10756 02-14

HEMATOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL RESPONSE FROM MASSIVE DOSES OF MIXED GAMMA AND NEUTRON IRRADIATION IN GOATS
RTD-TDR-63-3077 N64-13827 05-16

PSYCHOLOGICAL EFFECTS OF RESTRICTED WORKSPACE AND WORK-REST CYCLE ON CREW FOR LUNAR MISSION
NASA-TN-D-2065 N64-14519 06-14

PHARMACOLOGICAL PREPARATIONS HAVING PSYCHOLOGICAL EFFECTS
JPRS-24475 N64-19491 12-14

PSYCHOLOGICAL EFFECTS ON RELIABILITY OF ASTRONAUT UNDER FLIGHT CONDITIONS
FTD-TT-63-761/1&2 N64-29277 21-14

HUMAN BEHAVIOR - PSYCHOLOGICAL RESEARCH ON DISPLAY VARIABLES
RADC-TDR-64-266 N64-31695 23-14

PSYCHOLOGY /GEN/
OUTLINE OF SOVIET LITERATURE ON HUMAN ENGINEERING - PHYSIOLOGY, PSYCHOLOGY, AND HYGIENE
JPRS-18772 N64-10505 01-14

PROBLEMS ON HUMAN ENGINEERING PSYCHOLOGY AND VISUAL AND SPATIAL PERCEPTION
JPRS-18719 N64-10786 02-14

FUNCTIONAL ANALYSIS OF HUMAN ENGINEERING - PSYCHOLOGY
JPRS-21976 N64-10852 02-14

ENGINEERING PSYCHOLOGY - INVESTIGATION OF TACTILE SENSATION, GRAPHIC ACTIVITY, & SPATIAL PERCEPTION OF MAN-MACHINE SYSTEMS
JPRS-22300 N64-11872 03-14

CHARACTERIZATION OF VITAL MANIFESTATIONS OF TEMPERAMENT
JPRS-22405 N64-12009 03-14

PSYCHOLOGICAL EFFECT OF EXTENDED MANNED SPACE FLIGHT
AMRL-TDR-63-81 N64-12213 03-14

DECISION THEORY - TROUBLESHOOTING AND UTILITY FOR RISK TASKS
AMRL-TDR-63-92 N64-12218 03-01

VISUAL PERCEPTION STUDIES & PSYCHOLOGY
JPRS-19615 N64-12504 04-14

SPACE PSYCHOLOGY
FTD-MT-63-68/1&3&4 N64-14375 06-14

PROGRAMMING NEEDS FOR AUTOMATED LABORATORY FOR PSYCHOLOGICAL RESEARCH
ESD-TDR-63-353 N64-14469 06-14

MENTAL REFLECTION PROCESSES IN LIGHT OF CYBERNETICS - PSYCHOLOGY
JPRS-23370 N64-15417 07-14

EVALUATION OF BRANCHING AND MOTIVATIONAL PHRASES IN SCRAMBLED BOOKS
AMRL-TDR-63-122 N64-15518 07-14

PSYCHOPATHOLOGICAL AND BIOCHEMICAL EXPERIMENTS ON PSYCHOLOGICAL EFFECT PRODUCED BY ANTICHOLINERGICS
JPRS-23296 N64-15622 07-16

PSYCHOLOGY OF WATER IMMERSION TECHNIQUE FOR SIMULATING WEIGHTLESSNESS - AVIATION MEDICINE
NADC-MA-6328 N64-15755 07-14

ENGINEERING PSYCHOLOGY
JPRS-23448 N64-16667 08-14

IRRELEVANCE IN REJECTION REGION OF T-TEST - SMALL SAMPLE TEST
AMRL-TDR-63-109 N64-16798 08-20

PSYCHOLOGICAL RESEARCH ON SPEECH DISCRIMINATION
AMRL-TDR-63-94 N64-16805 08-14

SELECTION OF SPACE CREWS FOR EXTENDED JOURNEYS - APPLICATION OF PSYCHOLOGICAL CRITERIA
JPRS-23853 N64-17536 09-14

DATA HANDLING SYSTEMS RESEARCH - DIGITAL COMPUTER, COMPUTER COMPONENT, PSYCHOLOGY, AND CONTROL THEORY
ESD-TDR-64-31 N64-19108 11-20

PHYSIOLOGICAL & PSYCHOLOGICAL DISORIENTATION OF ASTRONAUT DURING SPACE TRAVEL
NADC-MA-6321 N64-20329 13-14

MANAGEMENT OF SCIENTIFIC PERSONNEL - PSYCHOLOGICAL CHARACTERISTICS AND IDENTIFYING SUPERIORITY
N64-21605 15-01

PSYCHOLOGICAL TESTING OF EMOTIONAL FACTORS IN SUSCEPTIBILITY TO MOTION SICKNESS
N64-22437 15-14

BIBLIOGRAPHY ON ENGINEERING PSYCHOLOGY, TRAINING PSYCHOLOGY, ENVIRONMENTAL STRESS, SIMULATION TECHNIQUES, AND PHYSICAL ANTHROPOLOGY
AD-600804 N64-22515 15-14

EMPIRICAL STUDY OF HUMAN BELIEFS
ESD-TDR-64-238 N64-22567 15-14

ANIMAL STUDY - PSYCHOLOGICAL DISCRIMINATION BETWEEN TWO STIMULI BY FEMALE HOODED RATS
NADC-ML-6404 N64-22719 15-16

PSYCHOLOGICAL MULTIDIMENSIONAL SCALING OF ANALYSIS OF CONCEPT DIFFICULTY OF ELECTRONIC CIRCUITS
TR-39 N64-23142 16-09

HUMAN PHYSIOLOGICAL AND PSYCHOLOGICAL RESPONSES TO SLOW ROTATION N64-23696 16-16

ENGINEERING PSYCHOLOGY OF SPACE FLIGHT
N64-23740 16-16

INCENTIVE EFFECT ON INTERPERSONAL PERCEPTION - PSYCHOLOGY
AD-436402 N64-24234 16-14

PSYCHOLOGICAL AND PHYSIOLOGICAL RESPONSES OF TWO U.S.S.R. ASTRONAUTS DURING ORBITAL SPACE FLIGHT
N64-25167 17-14

DIGITAL COMPUTERS, COMPUTER COMPONENTS, PSYCHOLOGY, AND CONTROL
ESD-TDR-64-57 N64-26888 18-01

BIOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL STUDIES OF CENTRAL NERVOUS SYSTEM - CONDITIONED REFLEX
JPRS-26060 N64-28446 20-16

THREE-WAY FACTOR ANALYSIS OF MULTITRAIT-MULTIMETHOD MATRIX APPLIED TO PSYCHOLOGICAL TEST RESULTS
AD-600302 N64-29659 21-14

PSYCHOLOGICAL PROBLEMS - SENSORIMOTOR PERFORMANCE IN AUTOMATIC CONTROL, VISUAL SIGNALING PARAMETRIC INFLUENCE ON MOTOR REACTION, ALGORITHMIC APPROACH TO LEARNING, AND EYE MOVEMENT CONTROL
JPRS-26014 N64-30321 22-14

RECORDING APPARATUS FOR OPERATOR SENSORIMOTOR PERFORMANCE IN AUTOMATIC AND SEMIAUTOMATIC CONTROL SYSTEMS N64-30322 22-15

LABORATORY APPARATUS FOR VISUAL SIGNALLING INVESTIGATION OF MOTOR REACTION EFFECTIVENESS
N64-30323 22-14

ALGORITHMIC APPROACH TO ANALYSIS OF LEARNING PROCESSES AND PROBLEM SOLVING N64-30324 22-14

INFORMATION THEORY AND HUMAN THINKING, INFORMATION PERCEPTION, & ELECTROENCEPHALOGRAM ANALYSIS USING PROBABILITY THEORY
JPRS-26839 N64-33010 24-14

PSYCHOLOGICAL TESTING OF ANIMALS - FIXED EFFORT RESPONSE REINFORCEMENT AND EXTINCTION RESPONSE
AD-607325 N64-33507 24-16

PSYCHOMOTOR
CF NERVOUS SYSTEM
PSYCHOMOTOR AROUSAL, HEMORRHAGE, AND UPRIGHT POSTURE EFFECTS ON CIRCULATION OF CHIMPANZEE
ARL-TDR-63-28 N64-13854 05-16

PSYCHOMOTOR PERFORMANCE
CF MENTAL PERFORMANCE
CF REACTION TIME
EFFECT OF HORIZONTAL SINUSOIDAL OSCILLATION ON PSYCHOMOTOR PERFORMANCE OF HUMANS SERVICING SATURN V LAUNCH VEHICLE
NASA-TM-X-53011 N64-20591 13-14

PSYCHOPHYSIOLOGY
SA NEUROPHYSIOLOGY
PSYCHOPHARMACOLOGICAL COMPOUNDS - CLASSIFICATION, SYNONYMS, OFFICIAL NAMES, CHEMICAL STRUCTURE, USE, DOSAGE, AND NOTES ON EFFECT
JPRS-22042 N64-11269 02-16

ACCELERATION STRESS ON HUMAN PSYCHOPHYSIOLOGICAL BEHAVIOR
NADC-MA-6305 N64-15753 07-14

PILOT AND AIRCRAFT - PSYCHOPHYSIOLOGICAL FACTORS IN HUMANS WHEN CONTROLLING AIRCRAFT
FTD-TT-63-276/1&2 N64-22188 15-04

TACTUAL STIMULATOR CAPABLE OF DELIVERING MICROGRAM FORCES - PSYCHOPHYSIOLOGY N64-22243 15-09

PSYCHOPHYSIOLOGY OF ILLUSIONS OF SPATIAL POSITION OF AIRCRAFT IN INSTRUMENT FLYING
N64-25158 17-16

ELECTRODE FOR RECORDING OF PSYCHOPHYSIOLOGICAL AND PHYSIOLOGICAL PHENOMENA IN HUMANS
NASA-CR-56205 N64-25767 17-16

PSYCHOPHYSICAL JUDGEMENTS REFLECTING FORMATION OF INTERNAL NORM FROM FOCAL STIMULUS, RESIDUAL STIMULATION, & BACKGROUND - ADAPTATION-LEVEL THEORY
TR-17 N64-27095 19-14

DRUG DEVELOPMENT AND PSYCHOPHYSIOLOGIC ASPECTS OF VISUAL PERCEPTION
AD-447092 N64-33690 24-14

PULMONARY CIRCULATION
RESPIRATORY PHYSIOLOGY AND PULMONARY CIRCULATION
AMRL-TDR-63-103/1/ N64-17926 10-16

DETERMINATION OF TEMPERATURE OF PULMONARY CAPILLARY BLOOD N64-17932 10-16

OXYGEN & CARBON DIOXIDE TENSIONS IN DOG PULMONARY VEIN N64-17943 10-16

PULMONARY GAS EXCHANGE AND LUNG FUNCTION IN MAN DURING POSITIVE ACCELERATION IN SITTING POSITION
FPRC-1212 N64-22218 15-16

PULSE CODE MODULATION /PCM/
PULSE CODE MODULATION TELEMETRY DATA PROCESSING FOR ECCENTRIC ORBITING GEOPHYSICAL OBSERVATORY
NASA-TM-X-51259 N64-11812 03-08

PACKAGING OF AIRBORNE MULTIPLEXER-ENCODER PULSE CODE MODULATION TELEMETRY SYSTEM
N64-16160 08-09

ANNOTATED BIBLIOGRAPHY ON PULSE CODE MODULATED TELEMETRY
SB-64-6 N64-20897 14-08

APPLICATION OF SWEPT FREQUENCY MODULATION TECHNIQUES TO PCM TELEMETRY

RTD-TDR-63-4126 N64-21066 14-08

EFFICIENT PULSE CODE MODULATION ERROR CORRECTION AND SYNCHRONIZATION CODE
NASA-TN-D-2317 N64-22671 15-08

EXPLORER XVII REAL TIME PCM TELEMETRY DATA PROCESSING AND DISPLAY TEST STAND
NASA-TN-D-2318 N64-23026 16-22

POWER AND BANDWIDTH REQUIREMENTS FOR SINGLE SIDE BAND, FREQUENCY MODULATION, AND PULSE CODE MODULATION SYSTEMS FOR SATELLITE COMMUNICATION
NASA-CR-56538 N64-27390 19-08

PULSE CODE MODULATION DATA PROCESSOR OF SATELLITE TELEMETRY AUTOMATIC REDUCTION SYSTEM - HANDBOOK
NASA-TM-X-55069 N64-29189 21-20

QUICK LOOK ANALYSIS PROGRAM /QLAP/ REQUIREMENTS FOR PROCESSING PULSE CODE MODULATION /PCM/ DATA FOR GEMINI VEHICLE PERFORMANCE CALCULATIONS
TOR-469/A5126-10/-1 N64-29445 21-20

PULSE DIFFRACTION
TRANSIENT SOLUTIONS FOR CLASS OF PULSE DIFFRACTION PROBLEMS IN MICROWAVE THEORY
PIBMRI-1209-64 N64-24177 16-23

PULSE DURATION MODULATION /PDM/
PULSE-POSITION AND PULSE-DURATION MODULATION IN PERSONAL TELEMETRY SYSTEMS
AMRL-TDR-63-96 N64-13804 05-08

OPTIMUM TIME DURATION FOR PULSE TRANSMISSIONS FOR MULTIPATH CHANNELS
REPT. 646-3 N64-17454 09-08

PULSE FREQUENCY MODULATION /PFM/
PULSE FREQUENCY MODULATION TELEMETRY - CODING, NOISE ANALYSIS, FILTERS, SIGNAL-TO-NOISE RATIOS
NASA-TR-R-189 N64-12695 04-08

SYNTHESIS AND MECHANIZATION OF ENCODING TECHNIQUES FOR USE IN PULSE FREQUENCY MODULATION TELEMETRY SYSTEM FOR SATELLITES
NASA-TN-D-1672 N64-21263 14-08

ANALOG-DIGITAL ADDER FOR FREQUENCY PULSED SIGNALS
N64-24516 17-09

OPERATION AND MAINTENANCE MANUAL FOR UNIVERSAL PULSE FREQUENCY MODULATION /PFM/ REAL TIME DATA REDUCTION SYSTEM
NASA-TM-X-55066 N64-29181 21-20

OPERATION & MAINTENANCE MANUAL FOR UNIVERSAL PULSE FREQUENCY MODULATION, REAL TIME DATA REDUCTION SYSTEM
NASA-TM-X-55067 N64-29184 21-20

PULSE HEATING
PARTICLE EMISSION FROM TUNGSTEN CATHODE SURFACE HEATED BY PULSED LASER BEAM N64-13797 05-25

THERMAL DIFFUSIVITY OF SOLIDS USING LASER AS PULSE HEAT SOURCE
ASD-TDR-63-882 N64-14116 05-13

PULSE HEIGHT
BEHAVIOR OF TUNNEL DIODE IN FAST LOW-LEVEL PULSE HEIGHT DISCRIMINATOR
EUR-406.E N64-10415 01-09

CALIBRATION OF ELECTRONIC COUNTER AND PULSE HEIGHT ANALYZER FOR PLOTTING ERYTHROCYTE VOLUME SPECTRA
CARI-63-8 N64-11953 03-15

PULSE HEIGHT RESPONSE OF SCINTILLATORS TO HIGH-ENERGY ELECTRONS, POSITRONS, OR PHOTONS
N64-12557 04-23

CALIBRATION AND TESTING OF GAMMA-RAY SCINTILLATION SPECTROMETERS AND MULTICHANNEL PULSE HEIGHT ANALYZERS
IDO-16923 N64-13167 04-15

ANALOG-TO-DIGITAL CONVERTER-PULSE HEIGHT ANALYZER FOR DATA REDUCTION FROM BALLOON MEASUREMENTS
NASA-TM-X-55077 N64-33559 24-09

PULSE JET ENGINE
MINIATURIZATION OF VALVELESS PULSE JET ENGINES
ARD-307 N64-30533 22-27

PULSE MODULATION
CF FREQUENCY MODULATION
FOUR-TUBE PREAMPLIFIER FOR AMPLIFYING PULSE OUTPUT OF FISSION COUNTERS IN HIGH TEMPERATURE AND NUCLEAR RADIATION ENVIRONMENT
PWAC-427 N64-18142 10-09

THERMOMAGNETIC PULSE MODULATION DEVICE BASED ON CONTACTLESS THERMAL TRANSDUCER
FTD-TT-62-1805/1&2&4 N64-22403 15-15

HIGH POWER PULSE MODULATOR FOR POWER SUPPLY TO ELECTRON GUN
NRL-6073 N64-25181 17-09

APPARATUS FOR SYNCHRONIZED TREATMENT OF BIOLOGICAL ORGANISMS WITH PULSE MODULATED MICROWAVES
N64-30396 22-16

PULSE MOTOR
EFFICIENCY OF REPETITIVELY PULSED GAS FLOW PLASMA ENGINE AND OPERATION OF SINGLE-SHOT PLASMA ENGINE
NASA-CR-55771 N64-16027 07-27

PULSE REACTOR ENGINE FOR HIGH PERFORMANCE LIFT-PROPULSION SYSTEMS WITH NO MOVING PARTS
ARD-308 N64-29411 21-27

PULSE POSITION MODULATION /PPM/
PULSE-POSITION AND PULSE-DURATION MODULATION IN PERSONAL TELEMETRY SYSTEMS
AMRL-TDR-63-96 N64-13804 05-08

PPM-FOCUSED LOW-NOISE TRAVELING-WAVE TUBES FOR KU-, KA-, AND K-BANDS
MEC-QTR-NOBSR-89323-2 N64-21332 14-09

PULSE RADAR
TECHNIQUES FOR CONTINUOUS MONITORING OF SPECTRUM RADIATED BY PULSE RADAR
RADC-TDR-63-406 N64-14980 06-08

DOPPLER EFFECT IN RADAR DETECTION OF SINGLE TARGETS FOR PULSE AND CONTINUOUS WAVE RADARS
N64-15138 07-08

PULSE DOPPLER RADAR STUDY OF STORMS & TORNADOES
CAL-VC-1663-E-1 N64-16896 09-21

SHORT PULSE RADAR BACKSCATTER MEASUREMENT RANGE
N64-24303 17-08

NANOSECOND PULSED RADAR SCATTERING SYSTEM WITH GATED RECEIVER N64-24306 17-08

RECEIVING SYSTEM FOR MEASUREMENT OF STATIC RADAR CROSS SECTION WITH PULSE RADAR SYSTEM
N64-24308 17-08

PULSE RADAR SCATTERING FROM LINEAR TARGETS USING X-BAND RADAR WITH NANOSECOND PULSE WIDTH
N64-24319 17-08

HIGH POWER PULSED RADAR SYSTEM DESIGNED FOR CROSS SECTION MEASUREMENT OF FULL-SIZE TARGETS
N64-24726 17-08

MILLIMETER WAVE SHORT PULSE RADARS FOR INDOOR ECHOING AREA MEASUREMENT N64-24737 17-08

OUTDOOR PULSED RADAR REFLECTIVITY RANGE
N64-24743 17-10

SHORT-PULSE, OBLIQUE RADAR CROSS SECTION RANGE
N64-24756 17-10

PULSE RADAR APPLIED TO MISSILE AND SPACE PROGRAMS N64-24862 17-08

OPTICAL DISTANCE FINDER FOR GEODETIC STUDIES USING PULSE RADAR
FTD-TT-64-182/1&2&4 N64-26094 18-17

PULSE RADAR PERFORMANCE EVALUATIONS
N64-29108 21-08

NANOSECOND-PULSE BREAKDOWN DATA AT MICROWAVE FREQUENCIES OF GASES FOR RADAR TRANSMITTERS
RADC-TDR-64-204 N64-31910 23-24

PULSE RECORDER
PULSED DISCHARGE MEASUREMENT OF CURRENT-VOLTAGE CHARACTERISTICS OF CESIUM THERMIONIC CONVERTER
REPT.-25114 N64-13993 05-06

PRECISION OF RECORDING PULSE ACCELERATION AND CORRELATION OF MECHANISM PRECISION
FTD-TT-64-415/1&2&4 N64-27462 19-23

PRECISION OF RECORDING PULSED ACCELERATIONS USING TRIGONOMETRIC FUNCTIONS
N64-27464 19-23

PULSE-TIME MODULATION
SELF BALANCING PULSE WIDTH VOLTAGE CONVERTER
N64-24510 17-09

PULSE TRANSMISSION SYSTEM
S COMMUNICATION SYSTEM

PULSE WIDTH MODULATION /PWM/
COMPUTATION OF PROCESSES IN NONLINEAR PULSE WIDTH MODULATED DISCRETE CONTROL SYSTEMS
STL-TRANS-76 N64-11954 03-20

LOW INPUT VOLTAGE CONVERSION - PULSE WIDTH MODULATION
QPR-5 N64-22906 16-06

NOISE SUPPRESSION IN PULSE WIDTH MODULATION SYSTEM FOR DESIGNING FEEDBACK CONTROL SYSTEM
R-190 N64-23607 16-08

PULSE WIDTH MODULATOR FOR SILICON INTEGRATED CIRCUITS
GE/EE/63-27 N64-31275 22-09

PULSED LASER
NEON-HYDROGEN LASER AND PHASE RELATIONSHIP BETWEEN OPTICAL PUMP AND PULSED LASER OUTPUT
AD-603405 N64-30907 22-24

PULSED RADIATION
EFFECT OF PULSED RADIATION ON AEROSPACE DIGITAL COMPUTER
RTD-TDR-63-3051 N64-12235 03-09

ELECTROMAGNETIC PULSE RESULTING FROM NUCLEAR DETONATIONS - BIBLIOGRAPHY
DASA-618 N64-12579 04-23

X-RAY DIFFRACTION ANALYSIS OF PULSED RADIATION EFFECT ON AGING OF QUARTZ CRYSTAL RESONATORS
AD-415412 N64-14121 05-09

PULSED DISCHARGE TECHNIQUE USED TO MEASURE CESIUM ION MOBILITY IN CESIUM
AD-423289 N64-14622 06-18

EFFICIENCY OF NEUTRON BEAM IN PULSED FAST REACTOR
EUR-490.E N64-14709 06-23

PULSED DISCHARGE IN ARGON AT LOW PRESSURE
FTD-TT-62-1282/1&2 N64-16345 08-24

EFFECTS OF PULSED GAMMA RADIATION ON DYNAMIC ELECTRONIC COMPONENTS
GA-4062 N64-16646 08-26

PULSED NUCLEAR RADIATION EFFECTS ON FREQUENCY CONTROL DEVICES
G3988-Q3-3 N64-19269 11-23

PULSED NUCLEAR RADIATION INDUCED TRANSIENTS IN ELECTRONICS PARTS AND MATERIALS
USAELRDL-TR-2299 N64-22899 16-09

RANGE MEASUREMENT WITH RADIO WAVES USING PHASE SHIFT, FREQUENCY MODULATION, AND PULSED RADIATION METHODS
N64-24637 17-09

TRIODE AMPLIFIERS - OUTPUT VOLTAGE TRANSIENTS INDUCED BY PULSED NEUTRON AND GAMMA RADIATION
TR-1197 N64-26249 18-09

EFFECTS OF PULSED NUCLEAR RADIATION ON FREQUENCY CONTROL DEVICES
G3988-Q7-7 N64-33571 24-09

PUMP
LITHIUM COOLED REACTOR EXPERIMENT PRIMARY COOLANT PUMPS AND SUMP
PWAC-383 N64-10825 02-17

FLIGHT-TYPE COOLANT PUMP FOR NUCLEAR AIRCRAFT POWERPLANT IN LITHIUM COOLED REACTOR EXPERIMENT
PWAC-384 N64-11244 02-17

ANNOTATED BIBLIOGRAPHY - MECHANICS OF HEAT PUMPS AND ABSORPTION REFRIGERATION FOR SPACECRAFT
SB-62-16 N64-13327 04-13

UNCONVENTIONAL APPROACHES TO PROVIDING DYNAMIC SUPPORT FOR GAS BEARING MOLECULAR PUMP SEAL
ASD-TDR-63-709 N64-13876 05-10

PARTS, ARRANGEMENT, AND OPERATING PRINCIPLE OF CENTRIFUGAL PUMPS
FTD-TT-63-940/1 N64-14388 06-17

HIGH TEMPERATURE PUMP AND SUMP FOR LIQUID SODIUM-POTASSIUM ALLOY
PWAC-385 N64-14872 06-06

WIND-TUNNEL TEST OF PRESSURE AND TEMPERATURE DISTRIBUTION ON FLAT PLATE ABOUT INJECTOR WITH 95 STATIC-PRESSURE PORTS AND 25 THERMOCOUPLES
NASA-CR-53039 N64-14894 06-30

CALCULATION OF CHARACTERISTICS OF AXIAL FOREPUMPS FOR AIRCRAFT FUEL SYSTEMS
FTD-TT-63-418/1&2&4 N64-16367 08-17

VERY HIGH PRESSURE HYDRAULIC CONTROL SYSTEMS - PUMPS, MOTORS, AND CONTROL VALVES
EIC-63-MECH-17 N64-18478 10-06

FILM THICKNESS AND DYNAMIC PRESSURE VARIATIONS IN RADIAL FACE PUMP SEALS
N64-19023 11-17

AXIAL FLOW PUMP ROTOR WITH BLADE TIP DIFFUSION FACTOR OF 0.43 - CAVITATION FLOW CONDITIONS
NASA-TN-D-2295 N64-19726 12-17

PROPULSIVE EFFICIENCY, CAVITATION CHARACTERISTICS, AND BOUNDARY LAYER INTAKE DESIGN FACTORS FOR HYDRODYNAMIC SHROUDED PROPELLER - PUMPJET
NOW-63-0209-C-7 N64-20904 14-17

INERTIA PUMP FOR USE IN EXTRATERRESTRIAL ENVIRONMENT
ASD-TDR-63-374 N64-21571 15-17

TRANSIENT RESPONSE OF YLR87-AJ-5 ROCKET ENGINE TURBOPUMP WITH REDESIGNED FUEL PUMP AND PROPULSION SYSTEM EQUIPMENT
AD-434861 N64-22229 15-17

OPTIMUM GEOMETRY OF INDUCTION PUMPS FOR LIQUID METALS
FTD-TT-62-1724/1&2 N64-23291 16-11

ION SOURCE FOR PROTON ACCELERATOR INJECTOR
FTD-TT-63-68/1&2&4 N64-23418 16-23

ELECTROMAGNETIC ALKALI METAL PUMPS IN SPACE ELECTRIC POWERPLANT
NASA-CR-54036 N64-25903 18-06

INDUCER - PUMP RUNNER TO REDUCE NET POSITIVE SUCTION HEAD
NASA-CR-56315 N64-27880 20-17

EFFECT OF INJECTOR ON MOTOR PERFORMANCE IN ROCKET ENGINE COMBUSTION CHAMBER
N64-28588 20-26

EFFECTS OF HIGH CHAMBER PRESSURE, INJECTOR TYPE & SIZE, & THRUST CHAMBER LENGTH ON COMBUSTION STABILITY OF LIQUID PROPELLANT ROCKET ENGINES
NASA-CR-56672 N64-29706 21-27

INJECTOR CONFIGURATIONS AND ABLATIVE THRUST

CHAMBER MATERIALS FOR USE WITH OXYGEN DIFLUORIDE-DIBORANE PROPELLANT COMBINATIONS
NASA-CR-58800 N64-30525 22-26

MATERIALS SELECTION AND MECHANICAL DESIGN FOR EXPERIMENTAL LIQUID HYDROGEN PUMP FOR FLIGHT VEHICLE SYSTEMS
R-5343-3 N64-31278 22-17

PUMPING MECHANISM FOR HIGH SPEED HYDRAULIC PUMP TO BE USED AS POWER SOURCE DIRECTLY DRIVEN FROM JET ENGINE
QPR-1 N64-32965 24-17

MATERIAL TESTING & PERFORMANCE CHARACTERISTICS OF EXPERIMENTAL HYDROGEN PUMP FOR FLIGHT VEHICLE SYSTEMS
R-5343-2 N64-33505 24-17

AMPLIFIER PUMP SOURCE UNIT OF ANTENNA SYSTEM FOR SATELLITE COMMUNICATIONS TRANSPORTABLE GROUND TERMINAL
SYN-52-07-01, VOL. 2 N64-33641 24-08

PERFORMANCE AND STABILITY CHARACTERISTICS OF ROCKET ENGINE INJECTORS USING LIQUID OXYGEN PROPELLANT
NASA-TM-X-53126 N64-33870 24-27

EXPERIMENTAL LIQUID HYDROGEN PISTON PUMP
R-5730 N64-33963 24-17

PUMPING
SA CRYOPUMPING
SA OPTICAL PUMPING
LASER WITH SUN AS PUMPING SOURCE
N64-12567 04-25

SEMICONDUCTOR LASER PUMPED BY ELECTRICAL CURRENT - GALLIUM ARSENIDE N64-12569 04-25

CHAMBER FOR TESTING PUMPING SPEEDS OF VARIOUS COMBINATIONS OF PUMPING SYSTEMS
AEDC-TDR-63-260 N64-14973 06-17

SPIN-WAVE ANISOTROPY IN PARALLEL PUMPING EXPERIMENTS AT X-BAND FREQUENCIES - SINGLE CRYSTAL YTTRIUM-IRON GARNET
AFCRL-64-14 N64-19124 11-25

TRANSIENT PUMPING CHARACTERISTICS OF SUPERSONIC EJECTOR SYSTEM OF ROCKET ENGINE EXHAUST STREAM
ASME PAPER-64-FE-9 N64-22496 15-17

PERTURBATION ANALYSIS OF ORBIT PUMPING IN QUADRUPOLE NETWORKS
RADC-TDR-64-82 N64-22701 15-08

PHYSICAL THEORY OF LIQUID LASERS AND NUCLEAR PUMPING OF SEMICONDUCTOR LASERS
MHD-645 N64-29382 21-25

FLUID FLOW MODIFIED BY THERMOELECTRIC COOLING OF LIQUIDS, ELECTRICAL DECONTAMINATION, PRESSURE SURGE SUPPRESSION, AND PUMPING
ASD-TDR-63-776, VOL. I N64-32570 23-11

PUMPING MECHANISM FOR HIGH SPEED HYDRAULIC PUMP TO BE USED AS POWER SOURCE DIRECTLY DRIVEN FROM JET ENGINE
QPR-1 N64-32965 24-17

PUNCHED CARD
PROGRAMMING UNIT WITH PROGRAM RECORDED ON FIXED PUNCH CARD N64-24253 17-18

PURIFICATION
CF CLEANING
CF REFINING
CF STERILIZATION
ION-EXCHANGE PURIFICATION OF PROMETHIUM, AT HIGH TEMPERATURE WITH AMMONIA BUFFERED ELUENT, FROM RADIOACTIVE WASTE
HW-78651, REV. N64-11957 03-07

PURIFICATION OF URANIUM-235 & 238 FOR MASS SPECTROMETRIC STUDY OF FISSION PRODUCTS
UCRL-11074 N64-14712 06-23

WATER PURIFICATION BY OSMOSIS THROUGH MEMBRANES
NASA-CR-55697 N64-16280 08-06

WATER PURIFICATION BY OSMOSIS THROUGH MEMBRANES
NASA-CR-55698 N64-16281 08-06

WATER PURIFICATION BY OSMOSIS THROUGH MEMBRANES
NASA-CR-55701 N64-16320 08-06

ANALYSIS AND PURIFICATION OF RUBIDIUM & LITHIUM
APL-TDR-64-34 N64-18935 11-17

RARE EARTH COMPOUND PURIFICATION BY ION EXCHANGE EQUIPMENT N64-27207 19-07

RADIOCHEMICAL PURIFICATION OF EUROPIUM AND ITS NUCLEAR PROPERTIES
LAMS-3104 N64-28019 20-07

PURIFICATION BY SUBLIMATION OF CADMIUM SELENIDE POWDER CONTAINING ZINC IMPURITY
MTER-9 N64-28198 20-25

SELF-PURIFICATION OF CESIUM 137 FROM WATER AND CHEMICAL COMPOSITION OF ALGAE
JPRS-26056 N64-29032 21-16

SELF-PURIFICATION OF CESIUM 137 FROM WATER IN WEAKLY RUNNING RESERVOIRS N64-29033 21-16

PURIFICATION OF VACUUM EVAPORATED THIN FILMS OF METALS AND SEMICONDUCTORS BY SIMULTANEOUS ELECTROMAGNETIC LEVITATION AND INDUCTION HEATING
SAR-9 N64-29398 21-23

ALKALI HALIDE PURIFICATION AND CHARACTERIZATION OF ULTRAPURE SOLIDS
QR-4 N64-30134 21-07

PURIFICATION OF HELIUM FOR MAGNETOPLASMADYNAMIC LOOP N64-30434 22-10

BETA SILICON CARBIDE FOR SEMICONDUCTORS - CRYSTAL GROWTH AND PURIFICATION FROM NITROGEN
REPT.-12 N64-32973 24-25

PURINE
ELECTRONIC STRUCTURE AND SPECTRAL BEHAVIOR OF URANYL ION
WR-AF-4 N64-24071 16-23

PURITY
CF IMPURITY
PROPERTIES OF HIGH PURITY UNALLOYED AND ALLOYED PLUTONIUM N64-14229 06-18

ORGANOMETALLIC COMPOUNDS FOR PREPARATION OF HIGH PURITY CHROMIUM AND EUROPIUM
AFCRL-63-537 N64-17125 09-07

STRAIN RATE SENSITIVITY OF HIGH PURITY POLY-CRYSTALLINE ALUMINUM
AROD-2998-2 N64-17627 09-31

SURFACE ROUGHNESS AND PURITY EFFECTS
FTD-MT-63-63/162 N64-18758 11-25

EFFECTS OF ALLOYING ELEMENTS AND IMPURITIES ON MECHANICAL PROPERTIES OF MARAGING STEEL
TP-360 N64-21015 14-18

DEVICE FOR PURITY DETERMINATION OF REACTOR-GRADE MATERIALS BY OSCILLATION METHOD
EUR-523.F N64-22197 15-23

PREPARATION OF HIGH PURITY BERYLLIUM METAL BY DISTILLATION PROCESS
AD-440233 N64-22958 16-18

SPECTROGRAPHIC-PHOTOMETRIC DETERMINATION OF CESIUM IN HIGH PURITY PLUTONIUM METAL - CONTAMINATION PRODUCED BY ELECTROREFINING PROCESS
RFP-420 N64-30756 22-07

GAS CHROMATOGRAPHIC ANALYSIS OF HIGH PURITY PHOSGENE-ETHYLENE MIXTURES - PHOTOLYSIS
SSD-TDR-64-154 N64-31981 23-07

EFFECTS OF PURITY AND STRUCTURE ON PHYSICAL AND

MECHANICAL PROPERTIES OF ARC-MELTED TUNGSTEN
NASA-TN-D-2503 N64-33085 24-18

DEFORMATION OF IRON AND HIGH PURITY CUBIC CRYSTALS, STRESS RELAXATION OF ZONE REFINED IRON, AND BAUSCHINGER EFFECT PHENOMENON
AD-447829 N64-33670 24-25

THERMODYNAMIC PROPERTIES OF HIGH PURITY THORIUM DICARBIDE
UCRL-12003 N64-33851 24-07

PREPARATION OF HIGH PURITY BERYLLIUM BY DOUBLE VACUUM DISTILLATION
ASD-TDR-62-509, VOL. III N64-33908 24-18

PYRAMIDAL BODY
TRANSONIC STUDY OF SWEPT WING PANEL OF PYRAMIDAL BODY
NASA-TN-D-2033 N64-11554 03-30

MINIMIZATION OF PYRAMIDAL SYSTEMS OF MAJORITAL ELEMENTS BY HEURISTIC PROCEDURES
N64-30210 22-20

PYRIDINE
DERIVATIVES OF PYRIDYLTHIAZOLYMETHANE AS PHYSIOLOGICALLY ACTIVE SUBSTANCES
E-T-R-63-2 N64-12280 03-07

VISCOSITY, CONDUCTIVITY, AND HYDROGEN ION CONCENTRATIONS IN WATER SOLUTIONS OF VINYLPYRIDINE COPOLYMER WITH METHACRYLIC ACID
FTD-TT-62-1572/1&2&4 N64-22149 15-07

SPECTRAL AND MAGNETO-CHEMICAL STUDIES OF 5-TRIFLUOROMETHYLTETRAZOL COMPLEXES, COPPER COMPLEXES OF SUBSTITUED BENZOIC ACIDS, AND COPPER HALIDE COMPLEX WITH PYRIDINE N-OXIDE SUBSTITUTIONS
SR-9 N64-31093 22-07

PYROCERAM
CERAMICS, GLASS, AND PYROCERAM
FTD-TT-63-269/1&2 N64-23093 16-01

CRYSTALLIZATION OF GLASS AND PYROCERAM
N64-23094 16-19

ELECTRIC PROPERTIES OF PYROCERAM INSULATING MATERIAL
DS-130 N64-32202 23-25

PYROLYSIS
PHOTOLYSIS AND PYROLYSIS OF 4-METHYL-4-METHOXY-2-PENTANONE
TDR-269/4240-201-1 N64-12581 04-07

APPLICATION OF PYROLYTIC GAS CHROMATOGRAPHY TO ANALYSIS OF THERMOSETTING ACRYLIC RESINS
CCL-157 N64-17461 09-07

PETROLEUM EXTRACTS FOR THERMAL CRACKING OR PYROLYSIS, AND CARBON BLACK PRODUCTION
FTD-TT-63-1152/1 N64-22664 15-07

BONDING AND PYROLYSIS CHARACTERISTICS OF TWO SYNTHETIC BINDERS FOR GRAPHITE MATERIALS
WADD-TR-61-72, VOL. XL N64-26894 18-19

PYROLYSIS OF FLUOROPOLYMERS TO OBSERVE VOLATILITY
N64-27830 19-07

KINETICS AND MECHANISM OF PYROLYSIS OF HYDROCARBONS N64-28181 20-07

EFFECTS OF ALKALI TREATMENT AND GAMMA RADIATION ON PYROLYSIS OF POLYTRIFLUOROETHYLENE
N64-28681 20-07

SYNTHESIS OF DIMETHYL-BIS-PERFLUOROPROPYL-SILANE AND STUDY OF PYROLYTIC AND HYDROLYTIC STABILITY
N64-29173 21-07

FLASH PYROLYSIS OF SOLID FUEL MATERIALS BY THERMAL RADIATION
WSS/CI PAPER-64-6 N64-33500 24-26

PYROLYTIC GRAPHITE
USE OF PYROLYTIC GRAPHITE IN UNCOOLED NOZZLES OF SOLID PROPELLANT ROCKET ENGINES
AD-401115 N64-10865 02-07

STRUCTURAL AND HIGH TEMPERATURE TENSILE PROPERTIES OF BORON PYROLYTIC GRAPHITE
NASA-CR-53013 N64-13267 04-19

PYROLYTIC GRAPHITE STRUCTURAL CHANGES AS FUNCTION OF HEAT
SSD-TDR-63-340 N64-14345 06-19

THERMAL STRESSES IN ANISTROPIC HOLLOW CYLINDERS AND APPLICATION TO PYROLYTIC GRAPHITE CYLINDERS
WADD-TR-61-72, VOL. 19 N64-15576 07-19

ELECTRIC AND MAGNETIC PROPERTIES OF PYROLYTIC GRAPHITE
WADD-TR-61-72, VOL. 20 N64-15577 07-19

THERMOCONDUCTIVITY & AEROTHERMOCHEMISTRY OF PYROLYTIC GRAPHITE
R63SD84 N64-15760 07-19

ULTRAHIGH TEMPERATURE PYROLYTIC GRAPHITE THERMO-COUPLE
ASD-TDR-63-844 N64-16594 08-25

MICROWAVE GENERATION BY INTERACTION BETWEEN ELECTRON BEAMS AND PLASMA OR PYROLYTIC GRAPHITE
S-638 N64-24233 16-08

MECHANICAL PROPERTIES OF PYROLYTIC GRAPHITE
R64SD26 N64-24242 17-19

PYROLYTIC GRAPHITE COATED SOLID PROPELLANT ROCKET NOZZLES
QPR-1 N64-25402 17-27

MECHANICAL PROPERTIES AND FRACTURE MODES OF PYROLYTIC GRAPHITE
R64SD39 N64-26272 18-19

MICROWAVE POWER GENERATION AND AMPLIFICATION USING DOUBLE STREAM INSTABILITIES IN ANISOTROPIC MEDIA - PYROLYTIC GRAPHITE
QPR-2 N64-28224 20-25

COOLING THRUST CHAMBER OF LIQUID PROPELLANT ROCKET ENGINE USING PYROLYTIC GRAPHITE AND HYDROCARBON FILM
NASA-CR-58249 N64-29196 21-27

PLASMA OSCILLATIONS IN ANISOTROPIC MATERIALS FOR MICROWAVE POWER GENERATION AND AMPLIFICATION - PYROLYTIC GRAPHITE
REPT.-1 N64-30763 22-24

FEASIBILITY OF PYROLYTIC GRAPHITE COATINGS FOR UNCOOLED SOLID PROPELLANT ROCKET NOZZLES
RPL-TDR-64-129 N64-30974 22-17

PYROLYTIC MATERIAL
SA ABLATING MATERIAL
TENSILE PROPERTIES OF PYROLYTIC TUNGSTEN FROM 1370 TO 2980 DEG IN VACUUM
NASA-CR-53992 N64-20610 13-18

DEPOSITION OF PYROLYTIC CARBON COATING ON YARN FILAMENT TO INCREASE STRENGTH
AD-437595 N64-24174 16-18

PLASMA TORCH OXIDATION RESISTANCE AND EROSION - EVALUATION OF PYROLYTIC MATERIALS
N64-25425 17-19

DIMENSIONAL STABILITY AND CHANGE OF PYROLYTIC CARBON UNDER BOMBARDMENT BY FISSION FRAGMENTS
BMI-1679 N64-26872 18-23

PLASMA ARC TESTS ON PYROLYTIC MATERIALS FOR OXIDATION RESISTANCE AND EROSION EVALUATION
NASA-CR-58148 N64-27819 19-18

PYROMETER
CF THERMOCOUPLE
TEMPERATURE MEASUREMENT OF MOLTEN URANIUM USING INFRARED RADIATION PYROMETER
NLCO-890 N64-10134 01-01

THERMOCOUPLE AND RADIATION THERMOMETRY ABOVE 900 DEG K
N64-10940 02-13

FAST RESPONSE GRAPHITE FURNACE AS A SOURCE OF BLACKBODY RADIATION FOR PYROMETER CALIBRATION
NASA-RP-121 N64-14861 06-23

HARDNESS OF TUNGSTEN IN 200-2000 DEG RANGE USING THERMOCOUPLE AND OPTICAL PYROMETER MEASUREMENTS
FTD-TT-63-101/162 N64-16414 08-18

PYROMETER CORRECTION DUE TO DIMER ABSORPTION IN CESIUM VAPOR
AFCRL-64-208 N64-16625 08-23

DETECTION OF TURBINE WHEEL TEMPERATURES IN J-47 AND TURBOJET ENGINES USING TOTAL RADIATION PYROMETER
AD-426917 N64-24383 17-15

RADIATION PICKUP OF TEMPERATURE ON SURFACE IN MOTION BY FULL-RADIATION PYROMETER
N64-24553 17-15

NONLINEAR AVERAGING ERRORS IN RADIATION PYROMETRY
NASA-TN-D-2406 N64-26707 18-13

TEMPERATURE MEASUREMENT AND CONTROL IN ELECTRON BEAM FURNACE USING OPTICAL AND TWO-COLOR PYROMETERS
NRL-6062 N64-26914 18-15

RADIOMETER-PYROMETER FOR MEASUREMENT OF ABSORPTION, EMISSION, AND TEMPERATURE OF GASEOUS COMBUSTION PRODUCTS
NASA-TN-D-2405 N64-27092 19-15

HAFNIUM-TANTALUM EQUILIBRIUM DIAGRAM OBTAINED BY OPTICAL PYROMETRY, METALLOGRAPHY, DIFFERENTIAL THERMAL ANALYSIS, AND X-RAY DIFFRACTION
BM-RI-6521 N64-28624 20-18

PYROTECHNICS
SA FLARE
DESIGN CRITERIA FOR RADIOMETRIC EQUIPMENT TO OBTAIN REPRODUCIBLE INFRARED MEASUREMENTS OF PYROTECHNIC FLARES
ATL-TDR-64-10 N64-18179 10-26

PYROTECHNIC DELAY DEVICES FOR LOW ENERGY DETONATING CORD SYSTEMS
M64-26-1 N64-21570 15-26

SHOCK AND VIBRATION TESTING - MECHANICAL AND PYROTECHNIC SHOCK, FLIGHT ENVIRONMENT PREDICTION, AND INSTRUMENTATION
AD-433726 N64-23151 16-01

MECHANICAL SHOCK FROM FRANGIBLE JOINTS - PYROTECHNIC SHOCK
N64-23153 16-33

SHOCK ENVIRONMENT GENERATED BY PYROTECHNIC SEPARATION DEVICE
N64-23154 16-23

HANDBOOK ON SAFETY PROBLEMS IN PYROTECHNICS LABORATORY AND PLANT, PROCESSING PROCEDURES AND EQUIPMENT, AND PARTICLE SIZE PROCEDURES
AMCP-706-186 N64-33131 24-17

PROPERTIES OF MATERIALS USED IN PYROTECHNIC COMPOSITIONS
AMCP-706-187 N64-33132 24-07

PYROXENE
CF SILICATE
IRON, MAGNESIUM & CALCIUM DISTRIBUTION IN OLIVINES & RHOMBIC PYROXENES OF CHONDRITES
NASA-TM-X-54037 N64-26593 18-05

PYRROLE
POLYVINYL PYRROLIDINE EFFECTIVENESS IN REDUCING RETENTION OF RADIOISOTOPES IN BODY
N64-10039 01-16

Q

Q-FACTOR
CF ELECTRIC EQUIPMENT
STABILITY OF Q OF CIRCUIT WITH INDUCTIVE EFFECT BASED ON P-N JUNCTIONS
N64-32908 24-09

QUADRATIC EQUATION
EXTENSION OF GAUSSIAN QUADRATURE FORMULA TO CASE OF M VARIABLES
STL-TRANS-77 N64-12016 03-20

DEFINITION & CHARACTERISTICS OF QUADRATIC GRAPHS
E-T-G-63-11 N64-12202 03-20

MINIMUM QUADRATIC CRITERIA FOR CONTROL SYSTEM QUALITY - CYBERNETICS
N64-12464 04-20

QUADRATIC MASS FORMULA EVALUATION FOR ALL PARTICLES IN UNITARY SYMMETRY GROUP SU /3/
UR-875-44 N64-27974 20-23

QUADRATIC EQUATIONS IN BOUNDED LINEAR OPERATORS IN HILBERT SPACE
CIT-ORD-16-TR-9 N64-30540 22-20

QUADRUPOLE
OPTICAL PROPERTIES OF QUADRUPOLE MAGNET DOUBLETS
BNL-795/T304/ N64-11642 03-23

ENERGY LEVEL CONTRIBUTION TO MAGNETIC DIPOLE AND ELECTRIC QUADRUPOLE HYPERFINE INTERACTIONS
AMRA-TR-63-17 N64-14697 06-23

DIPOLE MOMENT, QUADRUPOLAR COUPLING CONSTANTS, AND MICROWAVE SPECTRUM OF CHLOROBENZENE
NASA-CR-55415 N64-14865 06-07

ELECTRIC QUADRUPOLE INTERACTIONS IN RARE EARTH IONS
AMRA-TR-63-33 N64-19106 11-23

NUCLEAR DEFORMATION IN PAIRING-PLUS-QUADRUPOLE MODEL
TECH. REPT.-15 N64-19123 11-23

INTENSITY OF 4-0 QUADRUPOLE BAND OF MOLECULAR HYDROGEN
N64-19581 12-23

MISALIGNMENT AND QUADRUPOLE ERROR EFFECTS IN FOCUSING SYSTEM FOR TWO-MILE ACCELERATOR
SLAC-11 N64-20664 13-23

NUCLEAR QUADRUPOLE COUPLING OF ALUMINUM 27 IN SOLID ANHYDROUS ALUMINUM CHLORIDE
N64-22078 15-07

BROADENING OF NOISE ATTENUATION IN QUADRUPOLE AMPLIFIER WITH AID OF UNCOUPLED RESONATORS AT INPUT
N64-23797 16-08

MICROWAVE SPECTRUM, BARRIER TO INTERNAL ROTATION, AND QUADRUPOLE COUPLING CONSTANTS OF CIS-1-CHLOROPROPYLENE
NASA-CR-58578 N64-29404 21-07

QUADRUPOLE NETWORK
PERTURBATION ANALYSIS OF ORBIT PUMPING IN QUADRUPOLE NETWORKS
RADC-TDR-64-82 N64-22701 15-08

QUALITATIVE ANALYSIS
QUALITATIVE ANALYSIS OF MOTIONS IN CELESTIAL MECHANICS
MH-TRANS-357 N64-14439 06-03

QUANTITATIVE & QUALITATIVE ANALYSIS
ORNL-3537 N64-15339 07-07

QUALITATIVE THEORY OF DIFFERENTIAL EQUATIONS - SYSTEM STABILITY
N64-16211 08-20

INFRARED ABSORPTION SPECTROSCOPY FOR QUANTITATIVE AND QUALITATIVE ANALYSIS
N64-27131 19-07

DATA ACQUISITION FROM INFRARED SPECTROMETER SYSTEM FOR QUALITATIVE ANALYSIS
N64-27132 19-07

CHEMICAL PROPERTIES AND QUALITATIVE ANALYSIS OF CARBIDES, BORIDES, AND NITRIDES
FTD-TT-63-814/162 N64-30689 22-07

QUALITATIVE AND QUANTITATIVE ANALYSIS OF EXPERIMENTAL MECHANISM FOR SHOCK POLARIZATION OF

NONPIEZOELECTRIC DIELECTRICS
WOLTR-64-121 N64-31874 23-25

QUALITATIVE ANALYSIS OF BUBBLE BEHAVIOR IN VERTICALLY VIBRATING LIQUID TANK
NASA-CR-59234 N64-33511 24-11

QUALITY
S FLYING QUALITY
S HANDLING QUALITY

QUALITY CONTROL
SA INSPECTION
SA PRODUCT DEVELOPMENT
CF RELIABILITY ENGINEERING
RELIABILITY AND QUALITY CONTROL REQUIREMENTS FOR MANNED SPACE FLIGHT - DESIGNS, PROCEDURES, AND SCHEDULES
NASA-TM-X-51030 N64-10110 01-32

STATISTICAL THEORY OF SELF-ADJUSTING SYSTEMS - GRADE OF QUALITY CONTROL DETERMINATION
JPRS-17820 N64-10488 01-06

RELATIONSHIPS BETWEEN PSYCHOPHYSICAL JUDGMENTS OF IMAGE QUALITY AND PHYSICAL IMAGE VARIABLES
N64-10531 01-14

NASA QUALITY & RELIABILITY CONTROL PROGRAM
NASA-TM-X-51276 N64-11813 03-01

QUALITY IMPROVEMENT OF INDUSTRIAL-GRADE TELLURIUM
N64-11827 03-18

TESTING OF RANDOM NUMBER GROUPS WITH ZONE TEST METHOD FOR USE IN STATISTICAL QUALITY CONTROL PROBABILITY N64-11866 03-20

QUALITY CONTROL MANUAL FOR IMPROVING RELIABILITY OF GERMANIUM TRANSISTORS
AD-432315 N64-17440 09-01

PRODUCT DEVELOPMENT, PRODUCTION, & QUALITY CONTROL OF SILICON PLANAR EPITAXIALLY DEPOSITED TRANSISTOR
AD-435115 N64-18739 11-17

PRODUCT DEVELOPMENT, RELIABILITY ENGINEERING, AND QUALITY CONTROL OF TRANSISTORS
AD-433496 N64-18909 11-17

QUALITY STANDARDS FOR TUNGSTEN SHEET METAL
NAB-196-M N64-19017 11-17

AUTOMATIC TESTING OF RELAYS FOR IMPROVED QUALITY CONTROL N64-19522 12-17

METHODS, EQUIPMENT, & COMPONENT SPECIFICATIONS USED IN FABRICATION OF HIGH RELIABILITY CIRCUIT BOARDS - QUALITY CONTROL
TR-63-307 N64-19576 12-09

QUALITY CONTROL MANUAL FOR RELIABILITY IMPROVEMENT OF SILICON ALLOY TRANSISTOR
QC-223, VOL. 3 N64-20298 13-17

QUALITY CONTROL OF LIGHTWEIGHT INSULATION PANELS FOR CENTAUR VEHICLE
NR-SS-014 N64-20342 13-13

QUALITY ASSURANCE MANUAL FOR MAINTAINING HIGH QUALITY & RELIABILITY OF MATERIALS AND SENSORS
N64-20486 13-17

ACCEPTANCE SAMPLING PROCEDURE AND SAMPLING INSPECTION PLANS FOR EVALUATING LOT QUALITY IN TERMS OF RELIABLE LIFE
TR-8 N64-20701 13-20

GLASS CRYSTAL STRUCTURE - QUALITY CONTROL OF GLASS MATERIAL
FTD-TT-63-796/1&2&4 N64-21955 15-19

SINTERING, QUALITY CONTROL, AND CRYSTAL STRUCTURE OF REFRACTORY MATERIALS
FTD-TT-63-323/1&4 N64-22347 15-07

QUALITY ASSURANCE PROGRAM FOR COMPONENT RELIABILITY IN RIFT PROJECT
NASA-CR-56346 N64-22446 15-17

INSPECTION AND QUALITY AND CONTROL TESTING OF MICROWAVE DUPLEXING TUBES
AD-601465 N64-22702 15-17

AVIATION FORECAST QUALITY CONTROL
RD-64-65 N64-23171 16-04

METAL BONDING ADHESIVES - SURFACE TREATMENT AND QUALITY CONTROL OF BONDS N64-23453 16-18

SCREEN, MICROSCOPIC, & SEDIMENTATION METHODS FOR GRAIN SIZE QUALITY CONTROL IN POWDER METALLURGY
N64-23469 16-18

QUALITY CONTROL OF TUNGSTEN SHEET PRODUCED BY REFRACTORY SHEET METAL ROLLING
NOW-63-0786D N64-24219 16-18

QUALITY CONTROL INSPECTION OF SILICON PLANAR EPITAXIAL SEMICONDUCTOR DEVICE
MPQRA 101A N64-25403 17-17

QUALITY CONTROL OF FILAMENT GROWTH FOR VOLTAGE TUNABLE MAGNETRON
QPR-7 N64-27073 19-17

QUALITY CONTROL MANUAL FOR SILICON DIFFUSED MESA SEMICONDUCTOR DEVICES
MP-QRA-102 N64-27778 19-17

SPECIFICATIONS, ACCEPTANCE TESTS, AND QUALITY CONTROL FOR INTERCONNECTING WIRE FOR AIRCRAFT
NA63H-1108 N64-29576 21-17

RELIABILITY AND QUALITY CONTROL MEASURES DURING PRODUCTION OF TRANSISTORS
AD-603363 N64-30147 21-17

ECONOMIC CONCEPTS AND PRINCIPLES OF QUALITY MANAGEMENT - COSTS, SUPPLY, AND DEMAND
SC-RR-64-1279 N64-30654 22-17

QUALIFIED PRODUCTS LISTS FOR PRECISION ROTATING COMPONENTS N64-31480 23-17

CRITICAL-COMPONENT-CONTROL PROGRAM FOR GEMINI LAUNCH VEHICLE PROPULSION SYSTEM
AFBM-58-1 N64-31586 23-17

QUALITY CONTROL MANUAL - INSPECTION PROCEDURES FOR SILICON NPN GROWN JUNCTION
MPQRA-103 N64-31591 23-17

BIBLIOGRAPHY ON PROFICIENCY MEASUREMENT FOR TRAINING QUALITY CONTROL
AD-448362 N64-32813 24-14

QUANTITATIVE ANALYSIS
DOCUMENTATION AND QUANTITATIVE ANALYSIS OF THIN-LAYER CHROMATOGRAMS
RSIC-53 N64-12206 03-20

QUANTITATIVE ANALYSIS BY RADIOACTIVE PHOSPHORUS-32 OF TRICALCIUM PHOSPHATE SOLUBILIZED BY BACILLI
N64-13474 05-16

MASS SPECTROGRAPHY AND OTHER METHODS OF DETECTION AND QUANTITATIVE ANALYSIS OF MINUTE IMPURITIES IN BERYLLIUM
AD-410234 N64-14969 06-07

QUANTITATIVE & QUALITATIVE ANALYSIS
ORNL-3537 N64-15339 07-07

SEMIAUTOMATIC QUANTITATIVE DETERMINATION OF TRACE ELEMENTS IN BIOLOGICAL MATERIALS BY ACTIVATION ANALYSIS & STUDIES ON BIVALVE MOLLUSK
EUR-474.E N64-15672 07-16

DIOXANE SULFUR TRIOXIDE FOR QUANTITATIVE ANALYSIS OF ACTIVE HYDROGEN IN ALCOHOLS AND AROMATIC AMINES
TIL/T-5451 N64-16527 08-07

QUANTITATIVE NEUTRON ACTIVATION ANALYSIS OF LARGE SAMPLES IN NONUNIFORM NEUTRON FLUX
UCRL-7616 N64-16548 08-23

QUANTITATIVE ANALYSIS OF TRACE CONTAMINANTS TO PREVENT RADIATION HAZARDS

NASA-TM-X-54617 N64-16702 08-07

DETERMINATION OF TRACE AMOUNTS OF INORGANIC COMPOUNDS IN POLYPHENYLS BY X-RAY SPECTROGRAPHY
EUR-478.F N64-16926 09-07

QUANTITATIVE ANALYSIS OF OXYGEN IN POTASSIUM
NASA-RP-142 N64-17562 09-07

INFRARED INSTRUMENT FOR QUANTITATIVE ANALYSIS OF CARBON DIOXIDE
NASA-CR-53359 N64-18119 10-15

QUANTITATIVE METALLOGRAPHY OF HYDRIDE PHASE IN ZIRCALOY-2 PROCESS TUBES FROM NUCLEAR REACTOR
HW-74949 N64-19038 11-07

QUANTITATIVE ANALYSIS OF ALUMINUM IN COMPRESSED AND SINTERED MIXTURES OF ALUMINUM AND ALUMINUM OXIDE POWDERS
EUR-585.I N64-19043 11-07

QUANTITATIVE ANALYSIS OF PLASMA SHEATH ABOUT LANGMUIR PROBE
NASA-CR-53971 N64-20587 13-24

QUANTITATIVE ANALYSIS FOR OCCURRENCE OF RARE ELEMENTS IN COAL
BM-IC-8163 N64-20649 13-12

QUANTITATIVE ANALYSIS OF COBALT IN SOLUTION BY DIFFERENTIAL SPECTROPHOTOMETRY - COLORIMETRY
EUR-581.F N64-20876 14-07

QUANTITATIVE MEASUREMENT OF FRACTIONAL RENAL BLOOD FLOW BY TRACER TECHNIQUES FOR EVALUATING RENAL ISCHEMIA
UCLA-12-523 N64-21215 14-16

CONDUCTIVITY METHOD OF QUANTITATIVE ANALYSIS FOR CARBON TRACES IN TUNGSTEN
NASA-RP-232 N64-25858 18-07

QUANTITATIVE ANALYSIS OF GAS MIXTURE COMPOSITION BY OMEGATRON MASS SPECTROMETER N64-26966 19-15

INFRARED ABSORPTION SPECTROSCOPY FOR QUANTITATIVE AND QUALITATIVE ANALYSIS N64-27131 19-07

QUANTITATIVE ANALYSES BY OPTICAL EMISSION SPECTROSCOPY OF ENERGY EXCHANGE MECHANISMS IN RARE GASES AND SOLIDS
AD-442965 N64-30618 22-23

QUALITATIVE AND QUANTITATIVE ANALYSIS OF EXPERIMENTAL MECHANISM FOR SHOCK POLARIZATION OF NONPIEZOELECTRIC DIELECTRICS
NOLTR-64-121 N64-31674 23-25

QUANTITATIVE DETERMINATION OF DOUBLE BONDS IN UNSATURATED SILICO-ORGANIC COMPOUNDS BY INFRARED ABSORPTION SPECTROSCOPY
FTD-TT-64-458 N64-31978 23-07

QUANTITATIVE DETERMINATIONS OF VERY LOW CARBON CONCENTRATIONS IN TUNGSTEN BY COMBUSTION-CONDUCTOMETRIC METHOD
NASA-TN-D-2153 N64-32427 23-18

QUANTITATIVE ANALYSIS OF PLAIN AND ALLOYED TUNGSTEN FOR IRON, COPPER AND COBALT
T65-1-1 N64-32548 23-18

QUANTITATIVE ANALYIS OF POLYSACCHARIDES PRODUCED BY FRESH WATER ALGAE N64-33019 24-16

SEMI-QUANTITATIVE SPECTROCHEMICAL ANALYSIS OF RHENIUM
NASA-CR-59273 N64-33326 24-13

QUANTIZER
LINEARIZATION OF MULTISTEP QUANTIZER NONLINEARITY BY APPLICATION OF INDEPENDENT QUANTIZER ACTIVATORS /DITHERS/
RM-3271-PR N64-21722 15-08

SUPERCONDUCTING SYSTEM FOR TRAPPING AND DETECTING QUANTUM VALUES OF FLUX - QUANTIZER
SEL-63-128 N64-25990 18-09

AREA SIZE DISTRIBUTIONS OF TELEVISION STILL PICTURES BY ELEMENTS LINEARLY QUANTIZED TO 8 AMPLITUDE LEVELS
AFCRL-64-478 N64-31428 23-15

ALGORITHM BASED ON DYNAMIC PROGRAMMING DEVELOPED FOR SPECIFIC VALUES OF QUANTIZER PARAMETERS
N64-33698 24-23

QUANTUM GENERATOR
S PARTICLE EMISSION

QUANTUM MECHANICS
QUANTUM EFFECT IN CALCULATION OF TRANSMISSION COEFFICIENT APPLIED TO REACTION RATE CONSTANTS
IS-677 N64-11546 03-23

APPLICATION OF QUANTUM DEFECT METHOD TO PHOTOIONIZATION CALCULATIONS
AROD-2810-12 N64-11755 03-23

ORTHOGONAL FUNCTION AND WAVE EQUATION OF INVERSE SCATTERING PROBLEM IN QUANTUM MECHANICS
ARL-63-217 N64-12353 03-20

QUANTUM MECHANICAL CALCULATION OF SPACE-TIME CORRELATION OF ELECTROMAGNETIC FIELD COMPONENTS IN BLACKBODY RADIATION N64-13429 05-23

MICROWAVE AND QUANTUM ELECTRONICS
REPT.-05000-8-5 N64-13892 05-09

DYNAMIC BEHAVIOR OF QUANTUM MECHANICAL OSCILLATORS
AD-427186 N64-14112 05-25

ERROR ESTIMATION OF SYSTEM DYNAMIC STABILITY IN QUANTUM STATISTICAL MECHANICS - PERTURBATION THEORY N64-14223 06-23

ATOMIC AND MOLECULAR QUANTUM MECHANICS
AD-428801 N64-14477 06-23

QUANTUM MECHANICAL FORM OF VIRIAL EXPANSION
N64-15602 07-23

INVERSE SCATTERING PROBLEM IN QUANTUM MECHANICS - INVERSION OF EIGENVALUE PROBLEMS
WIS-TCI-15 N64-15649 07-20

MODEL FOR BANDLIMITED QUANTUM COMMUNICATIONS CHANNEL AND INVESTIGATION OF ITS CAPACITY IN ABSENCE OF EXTERNAL THERMAL NOISE
AFCRL-64-3 N64-15808 07-01

THEORY OF QUANTUM MECHANICS, MEASURING APPARATUS, OBSERVATION, AND OPERATORS N64-16679 08-23

UPPER ATMOSPHERE INVESTIGATION AND ELECTRON CALCULATIONS IN QUANTUM MECHANICS
AFCRL-64-216 N64-17002 09-23

PERTURBATION THEORY IN STUDY OF TWO ELECTRON SYSTEM EXCITED STATES - QUANTUM MECHANICS
N64-17010 09-23

QUANTUM MECHANICS - THEORY OF NUCLEAR SHELL MODEL
AROD-1784-31 N64-17486 09-23

RELAXATION TIME AND PHONON MEAN FREE PATH FOR ELECTRON-ION GAS - QUANTUM MECHANICS
IPPJ-18 N64-18143 10-24

UPPER AND LOWER BOUNDS FOR GROUND-STATE SECOND-ORDER PERTURBATION ENERGY N64-18147 10-23

INVESTIGATION OF COVARIANCE PRINCIPLES IN CLASSICAL AND QUANTUM PHYSICS
NASA-CR-53563 N64-18423 10-23

QUANTUM MECHANICS OF LOW ENERGY, HEAVY PARTICLE COLLISIONS IN CHEMICAL REACTIONS
NASA-CR-53683 N64-19606 12-20

QUANTUM STATISTICAL MECHANICS - MICROCANONICAL ENSEMBLE FOR STUDY OF THERMODYNAMICS OF MONATOMIC CRYSTALS
ONR-TR-RLT-70 N64-19731 12-23

DIFFUSION OF MESONS IN HELIUM - QUANTUM MECHANICS

FTD-TT-63-1093/1&2 N64-19756 12-23

WAVE SCATTERING & PARTICLE COLLISION INTERACTION - QUANTUM MECHANICS
AD-432060 N64-20344 13-23

PLASMA OSCILLATIONS OF CONDUCTION ELECTRONS AND HOLES OF PI-BAND IN GRAPHITE - QUANTUM MECHANICS
NUP-64-3 N64-20525 13-25

BEHAVIOR OF CHARGED PARTICLE INTERACTING WITH STATIONARY CURRENT DISTRIBUTION - QUANTUM MECHANICAL PARADOX
NASA-CR-53183 N64-20738 13-23

COMPUTATION OF WAVE FUNCTION MATRIX ELEMENTS IN QUANTUM MECHANICS
RM-3826-PR/AEC N64-21160 14-23

GRAPHIC STUDY OF PHYSICAL, THERMODYNAMIC AND QUANTUM MECHANICAL PROPERTIES OF HELIUM-3 AND HELIUM-4
MLM-1161 N64-22103 15-07

PERTURBATION THEORY IN ATOMIC AND MOLECULAR QUANTUM MECHANICS - BERYLLIUM ATOM SHIELDING FACTORS AND POLARIZABILITIES
NASA-CR-56513 N64-24036 16-23

INFORMATION CAPACITY AND QUANTUM EFFECTS IN ELECTROMAGNETIC WAVE PROPAGATION CIRCUITS
ESD-TDR-64-23 N64-24811 17-08

QUANTUM MECHANICS IN SMALL ANGLE MOLECULAR BEAM SCATTERING
N64-24996 17-23

QUANTUM MECHANICAL STUDY OF DIATOMIC MOLECULES
NASA-TN-D-2363 N64-25713 17-23

QUANTUM MECHANICS - SYMPLECTIC SYMMETRY IN F-SHELL NUCLEI
UR-875-43 N64-25827 17-23

QUANTUM MECHANICS - CALCULATIONS OF WAVE FUNCTIONS AND ELECTRON TRANSITION PROBABILITIES
RTD-TDR-63-3118 N64-26567 18-23

QUANTUM MECHANICAL CALCULATIONS FOR FINAL STATES IN PHOTOIONIZATION
ARDD-2810-14 N64-26810 18-23

SEPARATION OF ELECTRONIC AND NUCLEAR MOTIONS IN MOLECULES USING TIME-DEPENDENT QUANTUM MECHANICAL METHODS
ARL-64-134 N64-26925 18-23

QUANTUM CORRECTION TO PHASE SHIFT IN COLLISION OF PARTICLES WITH SPHERICALLY SYMMETRIC POTENTIAL
WIS-TCI-34A N64-27418 19-23

NEW PERTURBATION METHOD FOR SOLVING PROBLEMS IN CLASSICAL AND QUANTUM MECHANICS
AD-601184 N64-27703 19-20

SCATTERING BY SINGLE LOGARITHMIC POTENTIAL
UR-875-50 N64-27763 19-23

QUANTUM EFFECTS IN ELASTIC SCATTERING OF MOLECULES
NASA-CR-56897 N64-27869 20-23

MASS RENORMALIZATION IN QUANTUM FIELD THEORY
UR-875-49 N64-28272 20-23

PROPAGATORS OF QUANTUM FIELD THEORIES AS GREEN FUNCTIONS FOR BOUNDARY VALUE PROBLEMS IN PARTIAL DIFFERENTIAL EQUATIONS
NRL-6028 N64-28274 20-23

SELF-SUSTAINED OSCILLATIONS OF QUANTUM MECHANICAL ELECTRON GAS IN UNIFORM MAGNETIC FIELD
TR-22 N64-28716 20-24

NONLINEAR & LINEAR MICROWAVE PROPAGATION, OPTICAL SPECTROSCOPY OF LASER MATERIALS, AND NONLINEAR QUANTUM MECHANICS OF LASERS
ML-1189 N64-30190 21-24

RESEARCH IN MOLECULAR STRUCTURE AND SPECTRA, QUANTUM MECHANICS, AND ATOMIC PHYSICS
AD-438424 N64-30304 22-23

IRREDUCIBLE TENSOR EXPANSION OF SOLID SPHERICAL HARMONICS TYPE OPERATORS IN QUANTUM MECHANICS
N64-30320 22-23

SPECTRAL LINE SHAPES EMITTED FROM PLASMAS - QUANTUM STATISTICAL ANALYSIS
RTD-TDR-63-3130 N64-30879 22-24

QUANTUM DEFECT METHOD FOR CALCULATING CROSS SECTIONS OF PHOTOIONIZATION OF NITROGEN AND OXYGEN ATOMS AND FIRST IONS OF OXYGEN AND NITROGEN
TR-64-028 N64-31132 22-23

ELECTRONIC STRUCTURES OF POLYATOMIC MOLECULES BY QUANTUM MECHANICS
AFCRL-64-458 N64-31134 22-25

MULTIPLE TIME SCALE APPROACH TO DERIVATION OF QUANTUM MECHANICAL KINETIC EQUATIONS
MATT-274 N64-32085 23-23

QUANTUM NUMBER
CF ANGULAR MOMENTUM
TRIALITY QUANTUM NUMBER IN SU/3/ AND U/3/ SYMMETRY AND ITS APPLICATION TO WEAK INTERACTIONS
UR-875-37 N64-25825 17-23

QUANTUM THEORY
SA FIELD THEORY
SA SCHUMANN-RUNGE BAND SYSTEM
QUANTUM THEORY OF MANY-PARTICLE SYSTEMS AND APPLICATION TO ELECTRONIC STRUCTURE OF MATTER
ARL-63-246 N64-16434 08-23

THEORY OF QUANTUM MECHANICS, MEASURING APPARATUS, OBSERVATION, AND OPERATORS N64-16679 08-23

QUANTUM THEORY, ENTROPY, AND SPACE COMMUNICATIONS
N64-17199 09-08

QUANTUM THEORY OF ELEMENTARY PARTICLES
AD-420626 N64-18915 11-23

GREEN FUNCTION METHOD FOR QUASI-PARTICLE LIFETIMES AND QUANTUM THEORY OF DOMAIN WALL MOTION
TR-186 AND 187 N64-19426 12-23

QUANTUM THEORY OF DOMAIN WALL MOTION
N64-19428 12-23

QUANTUM THEORY OF ENERGIES OF EXCITED STATE ATOMS & MOLECULES IN UPPER & STELLAR ATMOSPHERES AND MATERIALS UNDER COMBUSTION
NASA-CR-53704 N64-20003 13-23

INDUCED RADIATION & EQUILIBRIUM - QUANTUM RADIO ENGINEERING
FTD-TT-62-867/1&2 N64-21649 15-25

QUANTUM THEORY - EQUATION OF STATE FOR SOLID BODIES
FTD-TT-63-1113/1&264 N64-22159 15-25

QUANTUM FIELD THEORY AND DYNAMICAL ROLE OF SPIN IN ELEMENTARY PARTICLE PHYSICS
TH-54 N64-22491 15-23

QUANTUM THEORY OF COVALENT BONDING AND ANALYSIS OF RESONANCE THEORY N64-22878 16-23

QUANTUM THEORY OF VIBRATIONAL ENERGY EXCHANGE - TRANSITION PROBABILITIES ASSOCIATED WITH INELASTIC COLLISIONS OF ATOMS N64-23208 16-23

MASS RENORMALIZATION IN QUANTUM FIELD THEORY
UR-875-40 N64-26262 18-23

MICROWAVE DEVICES AND QUANTUM ELECTRONICS
REPT.-05772-4-P N64-27625 19-09

QUANTUM THEORY - SINGULAR LOGARITHMIC POTENTIALS AND PERATIZATION
UR-875-42 N64-27764 19-23

MACROSCOPIC BODIES IN QUANTUM THEORY
ARL-64-168 N64-30954 22-23

INEQUIVALENCE THEOREM IN QUANTUM FIELD THEORY
ARL-64-169 N64-30955 22-23

CLASSICAL APPARATUS MEASUREMENT OF QUANTUM ENSEMBLE
ARL-64-184 N64-31441 23-23

THEORETICAL AND QUANTUM CHEMISTRY OF ENERGETIC NITROGEN, OXYGEN, FLUORINE COMPOUNDS - FUNDAMENTAL BONDING AND BEHAVIOR
QTR-2 N64-32095 23-07

PERTURBATION THEORY AND FEYNMAN DIAGRAMS APPLIED TO QUANTUM FIELD THEORY
ARL-64-169 N64-32450 23-23

QUARTZ
CF ABRASIVE
CF PRISM
CF ROCK
INSERTION LOSS DESIGN OF CRYSTAL FILTERS USING LOW PASS PIEZOELECTRIC QUARTZ CRYSTALS
RADC-TDR-63-402 N64-10537 01-09

STRESS JUNCTION OF QUARTZ METAL TO PRODUCE WAVEGUIDE WINDOWS FOR ULTRAHIGH FREQUENCY DEVICES
JPRS-17936 N64-10569 01-09

GROUP FREQUENCY STANDARD QUARTZ CLOCK VARIATION AND PERTURBATION - RELATION OF EARTH ROTATIONAL IRREGULARITY AND CLOCK AGING
FTD-TT-63-542/1&2 N64-12342 03-12

QUARTZ CRYSTALS FOR FILTER APPLICATION AT 30, 45, AND 60 MEGACYCLES - EVALUATION
AD-423885 N64-13124 04-15

RADIATION PROTECTION OF SOLAR CELLS IN EXPLORER XVI THROUGH IMPROVED QUARTZ WINDOWS
NASA-RP-115 N64-13170 04-06

TEMPERATURE COMPENSATION TECHNIQUES FOR QUARTZ CRYSTAL OSCILLATORS
AD-417697 N64-14092 05-09

X-RAY DIFFRACTION ANALYSIS OF PULSED RADIATION EFFECT ON AGING OF QUARTZ CRYSTAL RESONATORS
AD-415412 N64-14121 05-09

COESITE AND SHATTERED QUARTZ IN HOLLEFORD CRATER
N64-14848 06-12

PULSED HYPERSONIC EXCITATION AND ATTENUATION MEASUREMENTS IN QUARTZ AT LOW TEMPERATURES
AFCRL-63-564 N64-15585 07-19

QUARTZ LAMP RADIANT HEAT BRAZING OF LARGE REFRACTORY METAL SANDWICH PANEL STRUCTURES FOR AEROSPACE VEHICLES
IR-7-937A/II/ N64-16042 07-17

CLEANUP AND THERMAL RECOVERY OF INERT GASES AT INTERFACE BETWEEN HIGH POWER MICROWAVE DISCHARGE AND QUARTZ SURFACES
SCL-5794 N64-16852 08-09

LOW POWER TEMPERATURE CONTROL OF QUARTZ CRYSTALS
QR-1 N64-16955 09-06

HEAT AND WATER BALANCES IN CLIMATOLOGY - METHODS, COMPUTATION PRECISION, AND RELATIONSHIP
JPRS-23924 N64-18347 10-21

PRODUCTION ENGINEERING TO MANUFACTURE QUARTZ CRYSTALS FOR CRYSTAL AND ELECTRODE PLATING AND POLISHING
AD-432930 N64-18357 10-09

ADHESIVES AND PLASTICS, RADIOACTIVE ELEMENTS, ISOTOPE SEPARATION, ALPHA AND NEUTRON SOURCE DEVELOPMENT, AND ANALYSIS
MLM-1179 N64-18406 10-23

CONSTRUCTION AND OPERATION OF QUARTZ COMPOSITE OSCILLATOR FOR MEASURING INTERNAL FRICTION IN METALS AND ALLOYS
BM-RI-6419 N64-18506 10-09

DISINTEGRATION PITCH OF FUSE WIRE IN QUARTZ SAND
E-T-P-63-2 N64-18877 11-09

OVENS FOR MAINTAINING QUARTZ CRYSTAL TEMPERATURE DURING ENVIRONMENTAL TEMPERATURE EXTREMES
QR-3 N64-20131 13-15

BRAGG ANGLES OF ALPHA QUARTZ USING DOUBLE CRYSTAL X-RAY SPECTROMETER
N64-21171 14-23

QUARTZ CRYSTAL OSCILLATOR
TP-68-994 N64-21842 15-09

AGING EFFECTS ON QUARTZ CRYSTAL RESONATORS
QR-3 N64-22204 15-23

RADIATION-INDUCED SHOCK WAVES EXTERNAL TO QUARTZ DISCHARGE TUBES CAUSING SHATTERING
NRL-MR-1509 N64-22217 15-24

PRODUCTION METHOD FOR QUARTZ CRYSTALS USED IN RELIABILITY STUDY
REPT.-3 N64-22716 15-23

HYBRID MODULE - THERMOELECTRIC TEMPERATURE CONTROL FOR QUARTZ CRYSTALS AND CRYSTAL OSCILLATORS
REPT.-6 N64-23167 16-23

QUARTZ CRYSTAL SEALING UNITS IN MINIATURE GLASS CRYSTAL HOLDERS
AD-436089 N64-23251 16-19

FREQUENCY TEMPERATURE COMPENSATION TECHNIQUES FOR QUARTZ CRYSTAL OSCILLATOR
QPR-2 N64-24929 17-23

DESIGN AND PRODUCTION OF HIGH PRECISION QUARTZ RESONATORS
AD-601524 N64-24934 17-17

FABRICATION AND BONDING OF QUARTZ CRYSTALS FOR SINGLE SIDEBAND VOICE COMMUNICATIONS EQUIPMENT
REPT.-2 N64-25618 17-23

PRODUCTION METHODS FOR OVERTONE FILTER CRYSTALS
QR-7 N64-27848 19-17

VERY HIGH FREQUENCY QUARTZ CRYSTAL FILTER DESIGNS USING INDUCTIVELY COUPLED LATTICE EQUIVALENT TECHNIQUE
USAELRDL-TR-2425 N64-27923 20-09

AGING EFFECTS ON LOW FREQUENCY QUARTZ CRYSTAL RESONATORS
QR-4 N64-27949 20-23

VACUUM DEPOSITION OF ALUMINUM AND POLISHING MACHINE FOR QUARTZ CRYSTAL RESONATOR FABRICATION
REPT.-2 N64-28151 20-17

PRODUCTION METHODS FOR RUGGEDIZED QUARTZ CRYSTAL OSCILLATORS
QPR-6 N64-28620 20-09

QUARTZ CRYSTAL FILTERS FOR 70 TO 150 MC RANGE
REPT.-523-1000615-00152M N64-29395 21-09

SEALING PROCESSES FOR GLASS ENCLOSED QUARTZ CRYSTAL UNITS
REPT.-8 N64-29638 21-09

INCREASED QUARTZ RESONATOR RELIABILITY THROUGH REDUCTION OF FREQUENCY-AGING AND FAILURE RATE
QR-5 N64-29820 21-23

STABILITY AND Q-FACTOR OF QUARTZ CRYSTALS EXCITED BY PARALLEL FIELD TECHNIQUE
AD-602722 N64-30189 21-23

FREQUENCY TEMPERATURE COMPENSATION IN SMALL QUARTZ CRYSTAL OSCILLATOR
PUBL.-3032-64 N64-30552 22-09

QUARTZ FREQUENCY FILTERS
FTD-TT-64-363/1&2 N64-30704 22-09

PHONON INTERACTIONS IN CRYSTALS - APPLICATION TO AMPLIFIERS, OSCILLATORS, AND FREQUENCY CONVERTERS OF MICROWAVE ACOUSTIC ENERGY
QTR-4 N64-30908 22-23

RELIABILITY AND FAILURE OF QUARTZ CRYSTALS
REPT.-4 N64-31129 22-17

USE OF HUMAN THERMOREGULATORY PROPERTIES FOR QUARTZ CRYSTAL OSCILLATORS
USAELRDL-TR-2380 N64-31231 22-09

RESONANCE MODES AT DEFECTS IN CRYSTALLINE QUARTZ
AFCRL-64-597 N64-31821 23-25

FAILURE OF QUARTZ FREQUENCY CONTROL CRYSTALS
QPR-2 N64-32556 23-25

QUARTZ GLASS PRESSURE VESSELS FOR HYDROTHERMAL EXPERIMENTS IN SILICA-SATURATED SYSTEMS
JPL-TR-32-649 N64-33605 24-10

TRANSISTORIZED QUARTZ-CRYSTAL FREQUENCY STANDARD AND SYSTEM OF FREQUENCY DIVIDERS AND MULTIPLIERS
JPRS-27110 N64-33959 24-09

QUARTZ LIGHT
LONG WAVE INFRARED SPECTRUM OF QUARTZ MERCURY LAMP
TIL/T-5375 N64-10859 02-23

QUENCHING
CF HEAT TREATMENT
PLANE STRAIN FRACTURE TOUGHNESS OF QUENCHED AND TEMPERED STEEL
WAL-TR-310.24/5-4 N64-10245 01-18

QUENCHING PROPERTIES OF URANIUM FUEL CORE IN OIL AND WATER MEDIA
NLCO-891 N64-11092 02-18

ARTIC LOW TEMPERATURE TEST OF YUH-1D HELICOPTER
AFCRL-63-343 N64-12679 04-09

HYDROGEN CONCENTRATION AND HYDRIDE MORPHOLOGY EFFECTS ON TENSILE PROPERTIES OF ANNEALED AND QUENCHED ZIRCALOY
WAPD-TM-275 N64-15392 07-18

OPTICAL QUENCHING & STIMULATION OF ZINC-SULFIDE PHOSPHORS
FTD-MT-63-41/1&2 N64-18753 11-25

KINETICS OF TRANSFORMATION BY QUENCHING OF BETA-PHASE IN ALLOYS OF URANIUM WITH ALUMINUM, SILICON, IRON, NICKEL, MOLYBDENUM, & FISSION
N64-19444 12-18

INFLUENCE OF QUENCHING CONDITIONS ON VACANCY LOOPS IN ALUMINUM
UCRL-11108 N64-20277 13-25

QUENCHING AND ANNEALING OF ZONE REFINED ALUMINUM
TR-1 N64-24187 16-18

RADIAL DEPENDENCE OF QUENCHING INTERACTION BETWEEN RARE EARTH IONS N64-27993 20-25

DEFECT STRUCTURES IN QUENCHED AND ANNEALED GALLIUM ARSENIDE CRYSTALS
SEL-64-069 N64-29893 21-25

RESISTIVITY CHANGES DURING QUENCHING OF DILUTE BINARY GOLD ALLOYS OF SILVER AND INDIUM
N64-30792 22-25

FATIGUE LIFE OF FULLY QUENCHED STEEL COMPOSITION OF VARIOUS STRENGTH LEVELS
DTMB-1807 N64-30826 22-18

FIRE ENGINEERING RESEARCH IN PHYSICAL CHEMISTRY OF FOAMS, QUENCHING ACTION OF CATIONS, AND SURFACE CHEMISTRY OF PERFLUOROCARBONS
WSS/CI PAPER-64-2 N64-32512 23-13

ENERGY TRANSFER BETWEEN MOLECULES AND EXCITED ATOMS - QUENCHING OF EXCITED ARGON ATOMS FORMED BY BETA RADIATION FROM TRITIUM SOURCE AND LOW ENERGY ELECTRON IMPACT N64-33279 24-11

QUEUE
ALGORITHMIC SIMULATION FOR ANALYSIS OF INDIVIDUAL QUEUEING SYSTEMS AND PRODUCTION PROCESSES BY COMPUTER
JPRS-19621 N64-10511 01-20

PRIORITY QUEUE ACCORDING TO POISSON PROCESS
CU-38-63-NONR-266/33/MS N64-14833 06-20

QUEUING MODEL FOR DETERMINING MANPOWER AND TRAINING - HUMAN ENGINEERING
AMRL-TDR-64-21 N64-19101 11-14

GENERALIZATIONS OF BALLOT THEOREM IN MATHEMATICAL STATISTICS AND QUEUE THEORY
CU-41-64-NONR-266/59/MS N64-20545 13-20

MATHEMATICAL MODEL FOR SYSTEMS SERVICING AND BREAKDOWNS N64-24696 17-09

QUEUEING - OBSTACLE COURSE PROBLEM
TR-98 N64-30113 21-20

OCCUPATION TIME PROBLEMS IN THEORY OF SINGLE SERVER QUEUE
CU-44-64-NONR-266/59/MS N64-32296 23-20

BALLOT THEOREM APPLICATION TO STOCHASTIC LAW FOR FLUCTUATION OF QUEUE
CU-45-64-NONR-266/59/MS N64-33508 24-20

QUINONE
QUINONE COMPOSITION OF CHLORELLA PYRENOIDOSA
N64-19471 12-16

COORDINATION CHAIN POLYMER OF QUINIZARIN & BIS-ACETOACETYL-PHENYL ETHER
RSIC-168 N64-21577 15-07

METHOD FOR OBTAINING HEAT RESISTANT PARAMAGNETIC POLYMER BY REACTION OF DIAMINE WITH QUINONE
FTD-TT-62-1882/1&4 N64-21968 15-07

SEMIQUINONE FREE RADICALS IN SYSTEMS MODELLING BIOLOGICAL OXIDATION N64-28036 20-16

QUINONES IN PHOTOSYNTHETIC REACTIONS OF ISOLATED CHLOROPLASTS
AFCRL-64-760 N64-33104 24-16

R

RABBIT
EFFECTS OF BIPOLAR IONIZED AIR ON CHANGE IN BLOOD COMPLEMENT TITER AND ON ANAPHYLACTIC SHOCK IN RABBITS
JPRS-21777 N64-10152 01-02

IMMUNOLOGICAL REMOVAL OF IODINE-131 LABELED RABBIT ANTIBODY TO RAT FIBRINOGEN IN NORMAL AND TUMOR-BEARING RATS
UR-634 N64-10190 01-16

TRAUMATIC SHOCK CAUSED BY SOFT TISSUE COMPRESSION IN RABBITS AFTER ACUTE RADIATION INJURY
JPRS-22001 N64-10393 01-16

PATHOLOGICAL ANATOMY OF ACUTE RADIATION SICKNESS IN RABBITS
AEC-TR-5630 N64-10430 01-16

IRRADIATION EFFECTS ON MICE AND RABBITS, THYROID FUNCTION DETERMINATION, RADIOBIOLOGY, AND MAMMARY CANCER PREOPERATIVE IRRADIATION
JPRS-18904 N64-10807 02-16

IRRITATING EFFECT OF X-RAY IRRADIATION IN RABBITS
JPRS-19806 N64-11353 02-16

BIOLOGICAL EFFECT OF LOW DOSES OF RADIOACTIVE ISOTOPES - SODIUM-24 AND PHOSPHORUS-32 IN RATS, RABBITS, AND DOGS N64-12433 04-16

EXCRETION RATE OF RADIACTIVE SODIUM FROM RATS AND RABBITS FOR INTERNAL RADIATION DOSES CALCULATION
N64-12434 04-16

PROTEIN METABOLISM IN RABBITS DURING ACUTE RADIATION SICKNESS N64-12779 04-16

PHYSIOLOGICAL RESPONSES OF RABBITS
FTD-TT-62-1642 N64-22168 15-16

DISTRIBUTION OF BONE MARROW IN SKELETON OF HUMAN BODY, RABBIT, AND RAT, USING RADIOACTIVE IRON

ISOTOPE AND POSITRON SCINTILLATION CAMERA
N64-22853 16-16

PROPERTIES OF SERUM FROM RABBITS IMMUNIZED WITH HUMAN URINARY ERYTHROPOIETIN - HUMAN PHYSIOLOGY
N64-22854 16-16

NORMAL VARIATIONS OF VECTORCARDIOGRAM COMPONENTS IN DOG, CAT, AND RABBIT
JPRS-25599 N64-27318 19-16

CHANGES IN FRACTIONAL COMPOSITION & COLLOIDAL STABILITY OF SERUM PROTEINS IN RABBIT BLOOD DURING RADIATION SICKNESS N64-30243 22-16

EFFECTS OF MOLECULAR WEIGHT AND DOSAGE ON COAGULATION INHIBITION BY HIGH-WEIGHT POLYMERS IN RABBITS N64-31343 23-16

SENSITIVITY OF CENTRAL NERVOUS SYSTEM OF RABBIT TO CONTINUOUS ULTRAHIGH FREQUENCY ELECTROMAGNETIC FIELD N64-32782 24-16

RADAR
SA CONTINUOUS WAVE /CW/ RADAR
SA DOPPLER RADAR
IDEAL SYNTHETIC-APERTURE MAPPING RADAR SYSTEM
TDR-269/9990/-2 N64-12854 04-08

ANALYSIS OF RADAR RETURN PULSES BY APPLICATION OF COVARIANCE & POWER SPECTRAL DENSITY FUNCTIONS AND BY FOURIER & CONJUGATE TRANSFORM
SRI-MR-5 N64-13594 05-20

MEASUREMENT CAPABILITY OF UHF RADAR AT WALLOPS ISLAND
TECH. REPT.-305 N64-13996 05-10

ACTIVE DOPPLER VELOCITY SENSOR FOR RADAR NAVIGATION TECHNIQUE
BR-2604 N64-14509 06-08

TECHNIQUES FOR CONTINUOUS MONITORING OF SPECTRUM RADIATED BY PULSE RADAR
RADC-TDR-63-406 N64-14980 06-08

PRECISION RADAR FOR SPACECRAFT RENDEZVOUS AND DOCKING N64-16187 08-08

RANDOM PHASE ERRORS ON RESPONSE OF IDEALIZED SYNTHETIC-APERTURE MAPPING RADAR WITH HOMOGENEOUS ROUGH TERRAIN TARGET
TDR-269/9990/-4 N64-17360 09-08

METAL INCLUSIONS IN RADOMES - TRANSMISSION EFFICIENCY
ERR-FW-050 N64-18919 11-09

RADAR PHOTOGRAPHS OF GROUND CLUSTER PATTERNS FOR REFRACTIVITY PROFILES
SCI. REPT.-63-327 N64-18998 11-08

RADAR STUDY OF MORPHOLOGY OF SUBTROPICAL PRECIPITATION
SCI. REPT.-63-35F N64-18999 11-21

HIGH RESOLUTION BISTATIC RADAR TO RESOLVE ANTENNA FIELD PATTERN AMBIGUITIES
NASA-CR-56099 N64-20686 13-09

DIGITAL TECHNIQUES FOR RADAR LAND MASS SIMULATION
AD-600347 N64-21804 15-10

PULSE COMPRESSION TECHNIQUES FOR RADARS WITH HIGH RESOLUTION CAPABILITIES AT LONG RANGES
TDR-169/3250-43/TN-1 N64-22492 15-08

DIGITAL COMPUTER METHODS FOR ANALYSIS AND SYNTHESIS OF RADAR EMISSION SPECTRUMS
N64-22820 16-09

CAMERA-OSCILLOSCOPE RECORDING EQUIPMENT FOR ATHENA PROGRAM RADAR
PA-3 N64-23279 16-15

CIRCULAR POLARIZATION OF RADAR TRANSMISSIONS IN GROUND PLANE CROSS SECTION RANGE
N64-24301 17-08

PRINCIPLES OF RADAR
FTD-TT-62-1215/1&2 N64-24634 17-09

DEFINITIONS FOR RADAR, AND RELATION OF PRINCIPLES TO TARGET POSITION DETERMINATION METHODS
N64-24635 17-09

CALCULATION OF RADAR ACCURACY AND DETERMINATION OF TARGET & POSITION-LINE ERROR N64-24641 17-09

RADAR SELECTION OF MOVING TARGET SIGNALS AND EXTRACTION FROM ENTIRE RECEIVER FIELD
N64-24642 17-09

RADAR COUNTERMEASURE FACILITIES - PROTECTIVE COATINGS, ACTIVE ELECTRONIC COUNTERMEASURES, AND PASSIVE ELECTRONIC COUNTERMEASURES
N64-24644 17-09

NAVIGATIONAL ACCURACY OF CIVIL JET AIRCRAFT FOR DOPPLER EQUIPMENT EVALUATION AND HORIZONTAL SEPARATION STANDARDS
RD-64-52, I N64-25096 17-22

MILLSTONE-LEXINGTON RADAR INTERFEROMETER STATION WITH RADAR TRANSMITTER, ANTENNA, AND RECEIVER
ESD-TDR-63-566 N64-25602 17-09

EFFECT OF COHERENT RADAR DOPPLER TRACKING LOOP FILTER CHARACTERISTIC IN REDUCING ERRORS DUE TO FREQUENCY INSTABILITY IN RADAR TRANSMITTER
QPR-7 N64-25614 17-08

CORRECTION OF NEAR-HORIZONTAL RADAR ELEVATION ANGLES FOR ATMOSPHERIC REFRACTION
PMR-TM-64-6 N64-28794 20-01

LASER TECHNIQUES FOR DOPPLER OPTICAL NAVIGATION IN SPACE VEHICLE GUIDANCE
QPR-1 N64-29051 21-01

RADAR MAPPING OF DISTRIBUTED TARGETS
SSD-TDR-64-105 N64-29831 21-01

NOMOGRAMS FOR REDUCTION OF CIRCULAR ERROR OF POSITION DATA IN INERTIAL AND RADAR NAVIGATION SYSTEMS
NADC-AI-6361 N64-32325 23-22

POINTING EQUATIONS FOR DIRECTING SLAVE ANTENNA TO RADAR COORDINATES DETERMINED BY MASTER ANTENNA
TM-3646 N64-32934 24-01

ANNOTATED BIBLIOGRAPHY ON RADAR SIMULATION BY ANALOG OR DIGITAL COMPUTER TECHNIQUES
SB-64-12 N64-32966 24-01

RADAR ANTENNA
RANGE EQUATION OF EQUIVALENCE OF PULSE AND CONTINUOUS WAVE SIGNAL TRANSMISSION FOR STATIONARY RADAR ANTENNA N64-15137 07-01

GRAPHIC METHOD FOR DETERMINING ANGLES OF INCIDENCE AND POLARIZATION OF RADAR ANTENNA RADIATION INPINGING ON RADOME WALL
NADC-EL-6368 N64-19876 12-01

FEASIBILITY OF USING HELICOPTER ROTOR BLADE AS RADAR ANTENNA
TR-299-099-251 N64-25091 17-01

MILLSTONE-LEXINGTON RADAR INTERFEROMETER STATION WITH RADAR TRANSMITTER, ANTENNA, AND RECEIVER
ESD-TDR-63-566 N64-25602 17-09

MULTIPLATE ANTENNA FEED SYSTEM FOR RADAR AND RADIO ASTRONOMY APPLICATIONS
EB-5297-0460 N64-26179 18-01

VARIATION OF METAL PLATE WAVEGUIDE LENS FOR RADAR ANTENNA - BOOTLACE LENS
NRL-6075 N64-26915 18-01

CORRECTIVE & PREVENTIVE MAINTENANCE PROCEDURES FOR MILLSTONE L-BAND MONOPULSE RADAR ANTENNA
ESD-TDR-63-585 N64-29620 21-01

RADAR ATTENUATION
RADAR ATTENUATION BY PRECIPITATION AND STUDY OF

MORPHOLOGY OF SUBTROPICAL PRECIPITATION BY USE OF DUAL-FREQUENCY WEATHER RADAR SYSTEM
SCI. REPT.-63-30T N64-19013 11-21

SCALING OF MODELS WITH RADAR ATTENUATION COATINGS FOR MEASUREMENT OF RADAR REFLECTION PROPERTIES IN ANECHOIC CHAMBER N64-24323 17-08

RADAR BACKSCATTER
RADAR SCATTER FROM ROUGH SURFACES WITH APPLICATION TO LUNAR RADAR BACKSCATTER N64-19499 12-08

RADAR BACKSCATTER MEASUREMENTS FROM LOW CROSS-SECTION SHAPE
ESD-TDR-64-19 N64-21588 15-08

FREQUENCY STEPPING METHOD FOR RADAR SCATTERING MEASUREMENT - ROTATION OF COMPLEX TARGET TO OBTAIN RADAR CROSS-SECTION PATTERN
FZE-222-3 N64-22555 15-08

CONFERENCE ON RADAR REFLECTION PROPERTIES - CROSS SECTION, BACKSCATTER, AND MEASUREMENT METHODS
RADC-TDR-64-25, VOL. I N64-24281 17-15

MEASUREMENT OF RADAR BACKSCATTER CROSS-SECTIONS AND DIFFRACTED FIELDS N64-24282 17-08

ANECHOIC CHAMBERS FOR RADAR BACKSCATTER MEASUREMENT N64-24286 17-08

MEASUREMENT OF PHASE AND AMPLITUDE OF RADAR BACKSCATTER N64-24292 17-08

SURFACE CURRENTS IN THIN CONDUCTING SHEETS FOR CALCULATION OF RADAR REFLECTION AND SCATTERING N64-24293 17-08

PRECISION MEASUREMENT OF RADAR SCATTERING MATRIX OF RESONANT DIPOLE CHAFF WITH RADAR CROSS SECTION MEASUREMENT APPARATUS N64-24298 17-08

PULSED BACKSCATTER RANGE RADAR AND INSTRUMENTATION FOR MEASUREMENT OF TARGET CROSS SECTIONS N64-24302 17-08

SHORT PULSE RADAR BACKSCATTER MEASUREMENT RANGE N64-24303 17-08

NANOSECOND PULSED RADAR SCATTERING SYSTEM WITH GATED RECEIVER N64-24306 17-08

PULSE RADAR SCATTERING FROM LINEAR TARGETS USING X-BAND RADAR WITH NANOSECOND PULSE WIDTH N64-24319 17-08

SURFACE ROUGHNESS AND TOLERANCES IN MODELS FOR RADAR SCATTERING MEASUREMENTS N64-24320 17-08

RADAR BACKSCATTER RANGE N64-24738 17-08

DYNAMIC BACKSCATTER TESTING RANGE N64-24742 17-10

RADAR BACKSCATTER RANGE FOR MEASUREMENT OF LARGE AIRCRAFT MODELS N64-24747 17-10

ANECHOIC CHAMBER FOR MEASUREMENT OF BACKSCATTER AMPLITUDE AND PHASE AT MULTIPLE POLARIZATION N64-24752 17-08

RADAR SCATTERING FROM CONDUCTING CONE-SPHERE
ESD-TDR-64-37 N64-26760 18-08

EXPRESSION FOR CREEPING WAVE CONTRIBUTION TO RADAR SCATTERING CROSS SECTION FROM CONE-SPHERE
REPT.-64SD701 N64-27603 19-08

CONVERSION OF FIREFLY PROJECT RADAR DATA - WAVE SCATTERING FROM IONIZED ARTIFICIAL CLOUDS N64-31382 23-12

MODEL FOR CALCULATION OF RADAR BACKSCATTER FROM UNDERDENSE HYPERSONIC TURBULENT WAKES
AD-449234 N64-32603 23-11

ELECTROMAGNETIC WAVE BACKSCATTERING RADAR CROSS SECTION OF FINITE CONE
TR-EE64-14 N64-33534 24-08

RADAR CHAFF
PRECISION MEASUREMENT OF RADAR SCATTERING MATRIX OF RESONANT DIPOLE CHAFF WITH RADAR CROSS SECTION MEASUREMENT APPARATUS N64-24298 17-08

PROBABILITY DENSITY FOR RADAR CROSS SECTION OF ONE OR MORE RANDOMLY-ORIENTED DIPOLES - ANALYSIS OF RADAR CHAFF
ESD-TDR-64-341 N64-29604 21-08

RADAR CROSS SECTION
SCATTERING OF ELECTROMAGNETIC WAVES BY PERFECTLY REFLECTING OBJECTS OF COMPLEX SHAPE - RADAR CROSS SECTION
TR-EE63-8 N64-11537 03-09

RADAR CROSS SECTION OF MISSILE CONFIGURATIONS - DETERMINATION USING PHYSICAL OPTICS
RF-TR-63-16 N64-13806 05-08

CHEBYSHEV METHOD FOR ELECTROMAGNETIC FIELD SOLUTION OF RADAR CROSS SECTION OF PLASMA WAKE N64-15254 07-24

COMPARISON OF GEOMETRICAL OPTICS METHOD AND SUPERPOSITION APPROXIMATION FOR OBTAINING RADAR CROSS SECTIONS OF DIELECTRIC-CLAD BODIES
REPT.-1116-41 N64-20090 13-23

RADAR-PLASMA ABSORPTION EFFECT - REDUCTION OF RADAR CROSS SECTION OF BODY SURROUNDED BY PLASMA SHEATH
TR63-217A N64-20562 13-24

MINIMIZATION OF RADAR CROSS SECTION OF CYLINDER BY CENTRAL LOADING
AFCRL-64-356 N64-24137 16-33

MEASUREMENT OF RADAR BACKSCATTER CROSS-SECTIONS AND DIFFRACTED FIELDS N64-24282 17-08

RADAR BACKSCATTER CROSS SECTIONS AND DIFFRACTED FIELDS N64-24283 17-08

MEASUREMENT OF RADAR CROSS SECTION OF MODEL TARGETS IN ANECHOIC CHAMBER N64-24285 17-08

FOUR POLARIZATION METHOD FOR MEASURING RADAR CROSS SECTION OF AXISYMMETRIC TARGET N64-24289 17-08

APPLICATION OF SURFACE FIELD STRENGTH MEASUREMENTS TO RADAR CROSS SECTION PREDICTION - RADAR REFLECTION PROPERTIES N64-24295 17-08

RADAR REFLECTION PROPERTIES OF TERRAIN - RADAR CROSS SECTION PER UNIT AREA N64-24296 17-08

MEASUREMENT OF RADAR CROSS SECTION OF TARGETS IN MICROWAVE ANECHOIC CHAMBER N64-24297 17-08

PRECISION MEASUREMENT OF RADAR SCATTERING MATRIX OF RESONANT DIPOLE CHAFF WITH RADAR CROSS SECTION MEASUREMENT APPARATUS N64-24298 17-08

QUASI-DOPPLER TECHNIQUE FOR ACCURATE MEASUREMENTS OF RADAR CROSS SECTIONS IN ULTRAHIGH FREQUENCY BAND N64-24299 17-08

RADAR CROSS SECTION MEASUREMENT RANGE - REQUIREMENTS FOR NOISE REDUCTION N64-24300 17-08

PHASE MEASUREMENT IN PULSED RADAR CROSS SECTION SYSTEM AND USE FOR MEASUREMENT OF SCATTERING MATRIX AND BACKGROUND SUBTRACTION N64-24304 17-08

AUTOMATIC PLOTTER FOR RECORDING EFFECTIVE RADAR CROSS SECTION MEASUREMENTS N64-24307 17-08

RECEIVING SYSTEM FOR MEASUREMENT OF STATIC RADAR CROSS SECTION WITH PULSE RADAR SYSTEM N64-24308 17-08

SPIN-DROP METHOD OF MEASUREMENT OF RADAR CROSS SECTION OF MODEL IN ANECHOIC CHAMBER N64-24312 17-08

MEASUREMENT OF SMALL RADAR CROSS SECTIONS BY DIGITAL VECTOR FIELD SUBTRACTION
N64-24313 17-08

RADAR CROSS SECTION MODEL FABRICATION USING WOOD
N64-24314 17-08

EFFECT OF FINITE CONDUCTIVITY ON RADAR CROSS SECTIONS OF METAL BODIES N64-24317 17-08

RADAR CROSS SECTION DATA GENERATION AND RECORDING
N64-24713 17-08

COMPARISON OF RADAR CROSS SECTION SIGNATURES
N64-24720 17-08

USE OF RADAR CROSS SECTION DATA IN MILITARY SYSTEMS ANALYSIS N64-24721 17-08

SUBNANOSECOND PULSE METHODS OF RADAR CROSS SECTION MEASUREMENT N64-24723 17-08

CONTOUR CHARTS FOR RADAR CROSS SECTION ANALYSIS
N64-24724 17-08

HIGH POWER PULSED RADAR SYSTEM DESIGNED FOR CROSS SECTION MEASUREMENT OF FULL-SIZE TARGETS
N64-24726 17-08

CORRELATION OF DOWNRANGE RADAR MEASUREMENTS WITH STATIC RADAR CROSS SECTION MEASUREMENTS
N64-24727 17-08

INSTRUMENTATION OF TRACKING RADAR FOR DIRECT RECORDING OF RADAR CROSS SECTION
N64-24728 17-08

RADAR CROSS SECTION MEASUREMENT FACILITY
N64-24730 17-08

RADAR CROSS SECTION MEASURING EQUIPMENT AND RANGE
N64-24731 17-08

RANGE FACILITY FOR MEASURING RADAR CROSS-SECTIONS OF LOW DENSITY SUPERSONIC PLASMA STREAMS
N64-24733 17-08

VERTICAL RADAR CROSS-SECTION RANGE
N64-24734 17-10

CROSS SECTION RANGE RADARS N64-24744 17-08

RADAR TARGET SCATTER SITE RADAR CROSS SECTION MEASUREMENT RANGE N64-24750 17-10

RADAR CROSS SECTION MEASUREMENT DATA
N64-24751 17-08

RADAR CROSS SECTION RANGE N64-24755 17-10

SHORT-PULSE, OBLIQUE RADAR CROSS SECTION RANGE
N64-24756 17-10

MODIFIED OPTICAL GEOMETRIC METHOD FOR BISTATIC RADAR CROSS SECTIONS OF DIELECTRIC BODIES
AFCRL-64-296 N64-25832 17-09

PHYSICAL OPTICS MODEL FOR STUDY OF PLASMA SHEATH EFFECT ON HEAD-ON RADAR CROSS SECTION OF BLUNT BODIES
CARDE-TR-507 N64-28016 20-24

SMOOTH AND TURBULENT COLUMN ELECTROMAGNETIC SCATTERING TO ESTIMATE RADAR CROSS SECTION CURVES FOR REENTRY WAKES
TR-22 N64-29446 21-08

PROBABILITY DENSITY FOR RADAR CROSS SECTION OF ONE OR MORE RANDOMLY-ORIENTED DIPOLES - ANALYSIS OF RADAR CHAFF
ESD-TDR-64-341 N64-29604 21-08

CROSS SECTION MEASUREMENTS OF ECHO II SATELLITE BY MILLSTONE L-BAND RADAR
ESD-TDR-64-43 N64-30037 21-08

MULTIPLEX ANTENNA SYSTEM FOR SIMULTANEOUS MEASUREMENTS OF NOSE-ON RADAR CROSS SECTION OF HYPERSONIC PROJECTILE
CTN64-01 N64-31126 22-08

RAT SCAT - GROUND PLANE RADAR CROSS SECTION RANGE FOR MEASURING ARBITRARY TARGETS WITH CIRCULAR POLARIZATION AND MEASURING LINEAR SCATTERING MATRICES
FZE-222-2 N64-31949 23-10

RADAR CROSS SECTION MEASUREMENTS BY SHIELDED METAL COLUMN AND SUSPENSION TARGET SUPPORT DEVICES
FZE-222-5 N64-31950 23-10

SCATTERING MATRIX MEASUREMENTS OF GROUND PLANE RADAR CROSS SECTION RANGE
FZE-222-4 N64-32253 23-08

ELECTROMAGNETIC WAVE BACKSCATTERING RADAR CROSS SECTION OF FINITE CONE
TR-EE64-14 N64-33534 24-08

RADAR DATA
RADAR AND RAWINSONDE DATA DIFFERENCES FOR SERIES OF RAWINSONDE BALLOON FLIGHTS
ERDA-115 N64-17504 09-21

ELECTRIC PROPERTIES OF LUNAR SURFACE - CORRELATION OF RADAR AND PHOTOGRAPHIC DATA
NASA-CR-53880 N64-19850 12-23

RADAR DATA OF METEOR DISTRIBUTION AROUND EARTH
ORBIT N64-22080 15-29

CLIMATOLOGY - RADAR DATA OF TROPOPAUSE PENETRATION
AFCRL-64-111 N64-22381 15-21

METEOR RADAR DATA N64-28683 20-05

METEOR RADAR DATA N64-28684 20-05

METEOR RADAR DATA N64-28685 20-05

SNELL LAW AND GEOMETRICAL OPTICS USED TO CALCULATE ERRORS IN RADAR POSITION OBSERVATIONS DUE TO ATMOSPHERIC REFRACTION
USAERDAA-MET-7-64 N64-29550 21-08

CALIBRATED RADAR DATA FROM TRAILBLAZER I REENTRY VEHICLE
RP-5 N64-32187 23-08

RADAR DIRECTION FINDER
VERTICAL DIRECTION FINDING BY FIELD STRENGTH COMPARISON OF TWO FIXED EMITTERS OF DIFFERENT RADIATION PATTERNS
E-T-G-63-14 N64-31274 22-22

RADAR DISPLAY
TELEVISION SCAN-CONVERSION AND DIRECT-VIEW STORAGE TUBE FOR BRIGHT DISPLAY OF AIRPORT SURFACE DETECTION EQUIPMENT /ASDE/ N64-10255 01-15

FLIGHT TESTS OF REMOTE AIRBORNE TELEVISION DISPLAY OF GROUND RADAR COVERAGE VIA TACAN - RATAC
ASD-TDR-63-730 N64-12174 03-08

RADAR INDICATOR MODIFICATION TO PROVIDE BRIGHT DISPLAY OF RADAR, BEACON, ALPHA-NUMERIC, AND SYMBOLIC DATA
SP2-A64 N64-17825 09-08

RADAR ECHO
OPTICAL RADAR OBSERVATIONS AND UPPER ATMOSPHERE ECHOES FROM METEOR DISINTEGRATION, AND ESTIMATED MATTER INFLUX
NASA-CR-55057 N64-12028 03-05

PHYSICAL NATURE OF CHANGE IN INTENSITY OF RADAR ECHOES WITH HEIGHT IN THUNDERSHOWERS
AD-421984 N64-12283 03-21

BACKSCATTERING CROSS SECTION MIXTURES OF ICE & WATER - RADAR ECHO
AFCRL-63-760 N64-12294 03-23

THUNDERSTORM RADAR ECHOES & SURFACE WIND FIELDS
N64-16899 09-21

ECHO DETERMINATION OF LAMINAR MISSILE WAKE BY GRADIENT SCATTERING

RM-3466-ARPA N64-17301 09-08

COMPUTING RADAR ECHO FROM REENTRY VEHICLES
RM-3251-PR N64-17318 09-08

MILLIMETER WAVE SHORT PULSE RADARS FOR INDOOR ECHOING AREA MEASUREMENT N64-24737 17-08

RADAR ECHOING AREA RANGES N64-24749 17-08

VENUS RADAR REFLECTION OF BEAM WITH CIRCULAR POLARIZATION - DEPOLARIZATION OF ECHO
NASA-CR-56656 N64-25682 17-29

THUNDERSTORM TURBULENCE MEASUREMENTS BY AIRCRAFT AND CONCURRENT RADAR ECHO EVALUATIONS N64-27399 19-21

METEOR RADAR DATA - HOURLY RATE, DURATION DISTRIBUTION, DUTY CYCLE, RADAR DISTANCE, AZIMUTH DISTRIBUTION, AND DRIFTING ECHOES N64-28686 20-05

BACKSCATTERED RADAR ECHO FROM MOON USING CONCEPT OF DIFFERENTIAL REFLECTIVITY
NASA-CR-58716 N64-29221 21-05

CORRELATION OF RAINDROP-SIZE DISTRIBUTION AND RADAR ECHO VARIABLES TO IMPROVE RAINFALL INTENSITY MEASUREMENT
TR-9 N64-29645 21-21

COHERENT DETECTION OF RADAR ECHOES OF UNKNOWN DOPPLER SHIFT
RM-4227-PR N64-30120 21-08

GEOMAGNETISM, IONOSPHERIC ABSORPTION, AURORAL RADAR ECHOS, RADIO WAVE PROPAGATION, MICROPULSATIONS & EARTH CURRENTS
AD-602884 N64-30565 22-12

OPTIMUM PARAMETERS AND OPERATION MODES FOR AIRBORNE WEATHER-RECONNAISSANCE RADAR AND ANALYSIS OF RADAR ECHO MOTION ABOUT HURRICANE
AD-421622 N64-31256 22-21

RADAR EQUIPMENT
AUTOMATIC RADAR GROUND STATION FOR MEASURING COORDINATES OF GROUND TARGETS
JPRS-22384 N64-11919 03-06

LIGHTWEIGHT, PORTABLE RADAR APPROACH CONTROL SYSTEM FOR AUXILIARY AIRPORTS
ESD-TDR-64-185 N64-19128 11-10

RADAR EQUIPMENT, SIGNAL PROCESSING, RANGE MEASUREMENT, AND MICROWAVE COMPONENTS
ESD-TDR-64-41 N64-20300 13-09

NEW RADAR EQUIPMENT - TRACKING RADAR, LINEAR PHASED ANTENNA ARRAYS, SCANNING DEVICE, LASERS, AND THREE-DIMENSIONAL RADAR
JPRS-24841 N64-21044 14-08

NUCLEAR MAGNETIC RESONANCE METHOD OF MEASURING CONSUMPTION OF LIQUIDS
FDCL-TM-64-2 N64-21331 14-11

MAINTENANCE OF ELECTRONIC EQUIPMENT - FORECAST PROJECT
HUMRRO-TR-83 N64-21337 14-09

ELECTRIC DISCHARGE ARC LOSS IN HELIUM AS FUNCTION OF GAS PRESSURE AND TRANSVERSE MAGNETIC FIELD - RADAR GAS DUPLEXERS
RADC-TDR-64-229 N64-29828 21-24

RADAR INSTRUMENTATION
DISTANCE MEASURING ACCURACY OF TACTICAL AIR NAVIGATION /TACAN/, NONSTANDARD MEASURING, & RADAR IDENTIFICATION SET EQUIPMENT SYSTEMS N64-10412 01-22

DIGITAL TECHNIQUES FOR RADAR LAND MASS SIMULATION SYSTEMS
NAVTRADEVCEN-1025-2 N64-12076 03-08

RADAR INDICATOR MODIFICATION TO PROVIDE BRIGHT DISPLAY OF RADAR, BEACON, ALPHA-NUMERIC, AND SYMBOLIC DATA
SP2-A64 N64-17825 09-08

INSTRUMENTATION OF TRACKING RADAR FOR DIRECT RECORDING OF RADAR CROSS SECTION N64-24728 17-08

PULSE RADAR APPLIED TO MISSILE AND SPACE PROGRAMS N64-24862 17-08

RADAR MEASUREMENT
DIGITAL RECORDING AND PROCESSING OF FLIGHT PATH DATA FROM THEODOLITE AND RADAR MEASUREMENT VALUES N64-10235 01-22

RELATION BETWEEN SYSTEM OF ASTRONOMICAL CONSTANTS AND RADAR DETERMINATIONS OF ASTRONOMICAL UNIT
NASA-CR-53066 N64-15783 07-05

DETECTION OF SINGLY IONIZED NITRIC OXIDE IN E-REGION OF IONOSPHERE BY GROUND BASED RADAR MASS SPECTROMETRY
AFCRL-63-795 N64-15807 07-21

RADAR MEASUREMENTS OF THUNDERSTORM ACTIVITY IN STUDYING AIR TRAFFIC CONTROL N64-16894 09-21

RADAR MEASUREMENT STANDARDIZATIONS NEEDED FOR SIMULATION STUDIES N64-24717 17-08

TARGET CALIBRATION REFERENCES AND PROCEDURES FOR RADAR MEASUREMENT PURPOSES N64-24719 17-08

SUBNANOSECOND PULSE METHODS OF RADAR CROSS SECTION MEASUREMENT N64-24723 17-08

GEOMETRY AND INSTRUMENTATION CONSIDERATIONS FOR DYNAMIC REFLECTIVITY MEASUREMENTS N64-24725 17-08

HIGH POWER PULSED RADAR SYSTEM DESIGNED FOR CROSS SECTION MEASUREMENT OF FULL-SIZE TARGETS N64-24726 17-08

CORRELATION OF DOWNRANGE RADAR MEASUREMENTS WITH STATIC RADAR CROSS SECTION MEASUREMENTS N64-24727 17-08

RADAR CROSS SECTION MEASUREMENT FACILITY N64-24730 17-08

RADAR REFLECTIVITY MEASUREMENT FACILITY N64-24735 17-10

MILLIMETER WAVE SHORT PULSE RADARS FOR INDOOR ECHOING AREA MEASUREMENT N64-24737 17-08

STATIC RADAR REFLECTIVITY MEASUREMENT FACILITIES N64-24746 17-10

ULTRAHIGH FREQUENCY REFLECTION MEASUREMENT N64-24748 17-08

ANECHOIC CHAMBER FOR MEASUREMENT OF BACKSCATTER AMPLITUDE AND PHASE AT MULTIPLE POLARIZATION N64-24752 17-08

RADAR REFLECTIVITY MEASUREMENT FACILITIES AND TECHNIQUES N64-24754 17-10

RADAR LOCATION OF JUPITER
NASA-TT-F-8905 N64-25289 17-29

TURBULENT MOTIONS IN METEOR ZONE USING METHOD OF RADAR LOCATION OF METEOR TRAILS
NASA-TT-F-8924 N64-27133 19-12

LUNAR RADAR AND BACKSCATTERING MEASUREMENTS FROM LUNAR-LIKE SURFACES
NASA-CR-50859 N64-27806 19-08

RADAR MEASUREMENT OF TURBULENCE IN FREE PURE ATMOSPHERE
JPRS-26086 N64-28021 20-21

ACCURACY OF RADAR MEASUREMENTS OF CLOUD ALTITUDES
FTD-TT-63-539/1&2 N64-28468 20-21

CROSS SECTION MEASUREMENTS OF ECHO II SATELLITE

BY MILLSTONE L-BAND RADAR
ESD-TDR-64-43 N64-30037 21-08

RADAR PRECIPITATION PROFILES OF RAINSTORMS AND APPLICATIONS IN SYNOPTIC METEOROLOGY
HW-37 N64-32478 23-21

CORRELATION OF RAINDROP-SIZE DISTRIBUTION AND RADAR MEASUREMENT OF SURFACE PRECIPITATION
QTR-6 N64-33354 24-21

ANALYTICAL AND ANALOG TECHNIQUES FOR REDUCING EXTRANEOUS SIGNALS IN RADAR SCATTERING MEASUREMENTS
FZE-222-8 N64-33411 24-08

RADAR OBSERVATION
RADAR OBSERVATION OF PLANET MERCURY IN JUNE 1962
JPRS-18211 N64-10498 01-05

RADAR OBSERVATION OF METEORS
JPRS-18986 N64-10809 02-05

RADAR OBSERVATIONS OF METEOR ACTIVITY AND METEOR ROLE IN E-LAYER OF IONOSPHERE N64-10810 02-05

RADAR INDICATING/RECORDING DEVICE FOR STUDY OF RADIO WAVE DISPERSION BY METEOR TRAILS
N64-10811 02-05

OBSERVATION RESULTS AT AND NEAR VERTICAL INCIDENCE WITH M-33 X-BAND RADAR
AFCRL-63-921 N64-15734 07-08

PROBLEMS OF WEATHER FORECASTING IN LOW LATITUDES AND POSSIBLE USE OF RADAR FOR ACCURATE PREDICTION
N64-16302 08-21

THERMAL, CLOUD, AND PRECIPITATION STRUCTURES OF OCCLUDED FRONTAL SYSTEMS ON MESO- & SYNOPTIC SCALES - RADIOSONDE & RADAR OBSERVATIONS
AFCRL-64-26 N64-16869 08-21

MECHANISM OF RADAR OBSERVATION OF LUNAR SURFACE
AFCRL-64-74 N64-17505 09-08

RADIO AND RADAR STUDIES OF LUNAR AND PLANETARY IONOSPHERES, ATMOSPHERES, AND SURFACES
NASA-CR-53205 N64-17592 09-05

RADAR METHODS IN METEOROLOGY
FTD-TT-62-1423/1&2 N64-19739 12-21

RADAR DETECTION OF LUNAR ECHOES
ESD-TDR-63-582 N64-19870 12-29

RELAY SYSTEMS FOR TRANSMISSION OF RADAR OBSERVATIONS - TELEVISION SYSTEMS, RADAR SIGNAL TRANSMITTERS, AND CONVERTED SIGNAL TRANSMITTERS
N64-24643 17-09

POLARIZATION CONTROL SYSTEM DESIGNED FOR L-BAND RADAR - SOLAR RADAR OBSERVATIONS
ESD-TDR-64-331 N64-25726 17-09

EFFECT OF DIRECTION AND SPEED OF IMAGE MOTION ON TARGET RECOGNITION BY OBSERVER OF SIDE-LOOKING RADAR
AMRL-TDR-64-45 N64-28604 20-14

SIMULTANEOUS RADAR OBSERVATION OF MULTIPLE TARGETS WITHIN BROAD SURVEILLANCE REGION
AFCRL-64-696 N64-30976 22-08

ASTRONOMICAL UNIT DETERMINATION FROM RESULTS OF RADAR OBSERVATIONS OF VENUS
NASA-TT-F-8532 N64-31727 23-05

RADAR RANGE
RANGE EQUATION OF EQUIVALENCE OF PULSE AND CONTINUOUS WAVE SIGNAL TRANSMISSION FOR STATIONARY RADAR ANTENNA N64-15137 07-08

EFFECTS OF ATMOSPHERIC REFRACTION, ATMOSPHERIC ATTENUATION, AND EARTH SURFACE ON RADAR RANGE
N64-24640 17-09

MINIMUM RANGE CRITERION FOR MEASUREMENT OF RADAR CROSS-SECTION N64-24718 17-08

RADAR CROSS SECTION MEASURING EQUIPMENT AND RANGE
N64-24731 17-08

BACKSCATTER MEASUREMENT RANGE N64-24732 17-08

RANGE FACILITY FOR MEASURING RADAR CROSS-SECTIONS OF LOW DENSITY SUPERSONIC PLASMA STREAMS
N64-24733 17-08

VERTICAL RADAR CROSS-SECTION RANGE
N64-24734 17-10

RADAR BACKSCATTER RANGE N64-24738 17-08

RADAR SCATTERING RANGE FACILITY
N64-24739 17-08

EXPERIMENTAL REFLECTIVITY FACILITY
N64-24740 17-10

RADAR SCATTERING RANGE FACILITY
N64-24741 17-10

DYNAMIC BACKSCATTER TESTING RANGE
N64-24742 17-10

OUTDOOR PULSED RADAR REFLECTIVITY RANGE
N64-24743 17-10

CROSS SECTION RANGE RADARS N64-24744 17-08

STATIC RADAR REFLECTIVITY MEASUREMENT FACILITIES
N64-24746 17-10

RADAR BACKSCATTER RANGE FOR MEASUREMENT OF LARGE AIRCRAFT MODELS N64-24747 17-10

RADAR ECHOING AREA RANGES N64-24749 17-08

RADAR TARGET SCATTER SITE RADAR CROSS SECTION MEASUREMENT RANGE N64-24750 17-10

SIMULATION OF FULL-SCALE GROUND PLANE RANGE
N64-24753 17-08

RADAR CROSS SECTION RANGE N64-24755 17-10

SINGLE MEASUREMENT ACCURACY OF RADAR RANGE USING NONOPTIMUM FILTER IN RECEIVER
TM-97 N64-30639 22-08

SCATTERING MATRIX MEASUREMENTS OF GROUND PLANE RADAR CROSS SECTION RANGE
FZE-222-4 N64-32253 23-08

RADAR REFLECTION
RADAR SCATTER FROM LUNAR AND TERRESTRIAL SURFACES COMPARED WITH THEORETICAL CALCULATION
N64-19586 12-05

RADAR REFLECTION CHARACTERISTICS OF ECHO II SATELLITE, DODECAHEDRON BALLOONS AND SPHERICAL CAP
NASA-CR-53827 N64-19618 12-32

RADAR REFLECTION FROM PLANETARY SURFACE DESCRIBED BY COMPOSITE SURFACE CORRELATION FUNCTION
USAELRDL-TR-2314 N64-20335 13-08

CONFERENCE ON RADAR REFLECTION PROPERTIES - CROSS SECTION, BACKSCATTER, AND MEASUREMENT METHODS
RADC-TDR-64-25, VOL. I N64-24281 17-15

STATIC RADAR REFLECTIVITY SYSTEM AND TECHNIQUE MEASUREMENT - ANECHOIC CHAMBER REQUIREMENTS
N64-24284 17-08

TRANSMISSION LINE FOR MEASUREMENT OF RADAR REFLECTION PROPERTIES N64-24287 17-08

EFFECT OF WALL ILLUMINATION ON PERFORMANCE OF ANECHOIC CHAMBER IN MICROWAVE REGION IN MEASURING RADAR REFLECTION PROPERTIES OF MATERIALS & OBJECTS
N64-24288 17-08

FOUR POLARIZATION METHOD FOR MEASURING RADAR CROSS SECTION OF AXISYMMETRIC TARGET
N64-24289 17-08

RADAR REFLECTION PROPERTIES OF BAFFLES AND FENCES

FOR SUPPRESSION OF GROUND REFLECTED SIGNAL
N64-24290 17-08

OPTIMIZATION OF ANTENNA SYSTEM FOR MEASUREMENT OF RADAR REFLECTION PROPERTIES N64-24291 17-08

MEASUREMENT OF PHASE AND AMPLITUDE OF RADAR BACKSCATTER N64-24292 17-08

SURFACE CURRENTS IN THIN CONDUCTING SHEETS FOR CALCULATION OF RADAR REFLECTION AND SCATTERING
N64-24293 17-08

MEASUREMENT OF RADAR REFLECTION PROPERTIES OF ECHO PROJECT BALLOON - FULL-SCALE MODEL OF ECHO II SATELLITE N64-24294 17-08

APPLICATION OF SURFACE FIELD STRENGTH MEASUREMENTS TO RADAR CROSS SECTION PREDICTION - RADAR REFLECTION PROPERTIES N64-24295 17-08

RADAR REFLECTION PROPERTIES OF TERRAIN - RADAR CROSS SECTION PER UNIT AREA N64-24296 17-08

MEASUREMENT OF RADAR CROSS SECTION OF TARGETS IN MICROWAVE ANECHOIC CHAMBER N64-24297 17-08

POLARIZATION DIVERSITY AND RADAR REFLECTION PROPERTY MEASUREMENTS N64-24309 17-08

VOLUME EFFECTS ON RADAR REFLECTION PROPERTIES OF STYROFOAM N64-24321 17-08

RADAR REFLECTION DETECTION AND MEASUREMENT OF NEAR FIELD OF STYROFOAM CYLINDER N64-24322 17-08

SCALING OF MODELS WITH RADAR ATTENUATION COATINGS FOR MEASUREMENT OF RADAR REFLECTION PROPERTIES IN ANECHOIC CHAMBER N64-24323 17-08

METEOR TRAIL RADAR REFLECTION SETS FOR OBTAINING WIND-DENSITY DATA N64-24472 17-21

RADAR REFLECTIVITY MEASUREMENT
RADC-TDR-64-25, VOL. II N64-24712 17-08

RADAR REFLECTIVITY MEASUREMENT DATA FORMAT STANDARDS N64-24716 17-08

GEOMETRY AND INSTRUMENTATION CONSIDERATIONS FOR DYNAMIC REFLECTIVITY MEASUREMENTS
N64-24725 17-08

RADAR REFLECTIVITY MEASUREMENT FACILITY
N64-24735 17-10

EXPERIMENTAL REFLECTIVITY FACILITY
N64-24740 17-10

STATIC RADAR REFLECTIVITY MEASUREMENT FACILITIES
N64-24746 17-10

ULTRAHIGH FREQUENCY REFLECTION MEASUREMENT
N64-24748 17-08

RADAR REFLECTIVITY MEASUREMENT FACILITIES AND TECHNIQUES N64-24754 17-10

CREEPING WAVE CONTRIBUTION TO MONOSTATIC RADAR SCATTERING CROSS SECTION FROM HOMOGENEOUS SPHERE AS FUNCTION OF INDEX OF REFRACTION
REPT.-64SD702 N64-27608 19-08

RADAR SCANNING
RADAR SENSOR AND VERTICAL DISPLAY FOR AIRBORNE INSTRUMENT LANDING SYSTEM
AD-435558 N64-19776 12-08

RADAR SYSTEM
ULTRAHIGH FREQUENCY ELECTROMAGNETIC WAVE EXPOSURE PROBLEM ABOARD MERCHANT SHIPS DUE TO RADAR STATION
N64-11857 03-08

PARTICULAR CROSS-CORRELATION SIGNAL PROCESSING TECHNIQUE WITH POTENTIAL APPLICATION TO WEAPON SYSTEMS - RADAR SYSTEM
RE-TR-63-23 N64-12220 03-09

LASER RANGING SYSTEM - SIGHTING TELESCOPE, TRANSMITTER, RECEIVER OPTICS N64-12564 04-25

LASER APPLICATIONS - AMPLIFIER, POWER GENERATOR, & DETECTOR FOR COMMUNICATIONS & RADAR SYSTEMS
N64-12565 04-25

OPTIMIZING RADAR STATION LOCATIONS IN RELATION TO SATELLITE TRACKING
SSD-TDR-63-24 N64-12708 04-10

IDEAL SYNTHETIC-APERTURE MAPPING RADAR SYSTEM
TDR-269/9990/-2 N64-12854 04-08

PHASE ERRORS IN RADAR OR SONAR SYSTEM AND EFFECTS ON CENTER AND RADIUS OF GYRATION OF AMBIGUITY FUNCTION
REPT. 2900-347-R N64-13096 04-20

BEACON VIDEO CHANNEL PERFORMANCE OF FAA RML-4 RADAR MICROWAVE LINK
CER-D1695 N64-14910 06-08

APPLICATIONS AND CALIBRATION OF FREQUENCY-MODULATED AND CONTINUOUS WAVE RADAR SYSTEMS
JPRS-23120 N64-15131 07-08

DOPPLER EFFECT IN RADAR DETECTION OF SINGLE TARGETS FOR PULSE AND CONTINUOUS WAVE RADARS
N64-15138 07-08

CIRCUITS OF RECEIVING DEVICES IN CONTINUOUS WAVE RADAR SYSTEMS N64-15140 07-08

CIRCUITRY OF LOW FREQUENCY BLOCKS AND UNITS OF CONTINUOUS WAVE RADARS N64-15141 07-08

MULTIPLE HETERODYNE CIRCUITS OF FREQUENCY-MODULATED RADARS FOR SINGLE TARGET DETECTION
N64-15142 07-08

SPECTRAL ANALYSIS FOR RANGE SCANNING FREQUENCY-MODULATED DISTANCE AND VELOCITY RADAR SYSTEM
N64-15143 07-08

COMPARISON BETWEEN SIMULATANEOUS AND SEQUENTIAL DISTANCE-SCANNING CIRCUITS IN COHERENT-PULSE STATION WITH FREQUENCY-MODULATED RADAR
N64-15144 07-08

FORMATION OF SIGNAL SPECTRA REFLECTED FROM EARTH SURFACE - RADAR SCANNING WITH CONTINUOUS WAVES
N64-15145 07-08

GROUND VELOCITY AND DRIFT ANGLE MEASUREMENTS BY AIRBORNE DOPPLER RADAR N64-15146 07-08

TESTING OF RADAR STATIONS AND CALIBRATION OF SIGNAL TIME DELAY OF CONTINUOUS WAVE SYSTEM
N64-15148 07-08

CONTINUOUS WAVE DOPPLER RADAR STATIONS FOR DETECTION OF AUTO ACCELERATIONS
N64-15149 07-08

RADAR SYSTEMS ACCURACY EVALUATION
N64-15321 07-08

SHORT PULSE RADAR FOR INDOOR MODEL MEASUREMENTS
DRTE-1085 N64-15424 07-08

RADAR SIGNATURE AND DATA ACQUISITION FOR AN/CPN-4 RADAR SYSTEM
RADC-TDR-63-517 N64-15737 07-08

PARAMAGNETIC AMPLIFIER FOR PLANETARY RADAR SYSTEM
JPRS-23468 N64-15830 07-08

REFLECTION AND REFRACTION IN NONTURBULENT AIR FOR DESIGN OF HIGH PRECISION LASER RADAR SYSTEMS
EE-101 N64-18771 11-23

MAPS SHOWING RADAR SITES FOR AIR TRAFFIC CONTROL
RD-64-26, SUPPL. 1 N64-19004 11-12

CRYOSTAT DEVELOPMENT FOR APPLICATION IN NIKE-ZEUS RADAR SYSTEM
AD-425398 N64-19165 11-06

PROCESSING METHOD FOR REMOVING EFFECTS OF

ATMOSPHERIC TURBULENCE FROM SIGNALS IN SYNTHETIC APERTURE RADAR SYSTEMS - MATHEMATICAL MODEL
R-179 N64-19404 12-08

RELIABILITY AND MAINTAINABILITY OF RADAR COMMUNICATIONS SYSTEM IN EXTENDED DEPLOYMENT
ESD-TDR-64-198 N64-19661 12-10

RADAR SENSOR AND VERTICAL DISPLAY FOR AIRBORNE INSTRUMENT LANDING SYSTEM
AD-435558 N64-19776 12-08

IMAGE DESIGN FOR TERRAIN-MAPPING RADAR SYSTEMS
SSD-TDR-64-94 N64-20859 14-08

INTENSITY AND SHAPE OF REFLECTED RUBY LASER PULSES FOR OPTICAL RADAR SYSTEMS
RTD-TDR-63-4148 N64-21020 14-25

NANOSECOND PULSE BREAKDOWN OF AIR, HELIUM, AND NITROGEN - STUDY OF GASEOUS BREAKDOWN PHENOMENA FOR DESIGNING HIGH RESOLUTION RADAR SYSTEM
RADC-TDR-64-38 N64-21072 14-24

SPECTRUM SIGNATURE MEASUREMENTS MADE ON AIR ROUTE SURVEILLANCE RADAR SYSTEM
RADC-TDR-63-363 N64-21218 14-23

WIDE STOP-BAND FILTER FOR HIGH POWER S-BAND RADAR
N64-22832 16-09

TUNNEL DIODES FOR PHASED ARRAY RADAR SYSTEMS
QPR-3 N64-25721 17-09

MOVING TARGET INDICATOR /MTI/ RADAR SYSTEM
RADC-TDR-64-84 N64-25722 17-09

INCREASING SENSITIVITY OF WEATHER RADAR SET WITH X-BAND HELIUM MASER
USAELRDL-TR-2427 N64-26173 18-21

L BAND MICROWAVE AMPLIFIER FOR USE IN PHASED ARRAY RADAR SYSTEMS - FOCUSING OF TRAVELING WAVE TUBE
MTPR-22 N64-26643 18-08

SIMULATED AIRCRAFT SPEED EFFECT ON DETECTING AND IDENTIFYING TARGETS FROM SIDE-LOOKING RADAR IMAGERY
AMRL-TDR-64-40 N64-26874 18-14

OPERATING PERFORMANCE AND ERROR ANALYSIS OF RADAR SYSTEMS AT WOOMERA
WRE-TN-SAD-113 N64-28733 20-08

VERY HIGH POWER, VERY LOW NOISE CASSEGRAIN ANTENNA FEED SYSTEM FOR PLANETARY RADAR
NASA-CR-58674 N64-28970 20-08

CONDENSED INSTRUMENTATION AND CONSTRUCTION DATA FOR UNDERSNOW RADAR STATION
CRREL-132 N64-29022 21-10

THEORY OF FOCUSED SYNTHETIC-APERTURE MAPPING RADAR SYSTEM
SSD-TDR-64-125 N64-29582 21-08

OSCILLATOR STABILITY IN COMMUNICATION AND RADAR SYSTEMS
TDR-269/9990/-9 N64-29822 21-09

PHASED ARRAY RADAR RESEARCH AND HAYSTACK PROJECT-RADAR SIGNAL PROCESSING, TRANSMITTERS, RANGE MEASUREMENTS, AND MICROWAVE COMPONENTS
ESD-TDR-64-335 N64-30179 21-08

HIGH DETECTION RATE RADAR SYSTEMS FOR DELINEATION OF METEOR RADIANTS
NASA-CR-58685 N64-30502 22-05

TUNNEL DIODES FOR PHASED ARRAY RADAR
AD-602771 N64-30752 22-09

RADAR SYSTEMS & TARGET RESOLUTION
SSD-TDR-64-107 N64-30986 22-08

SEQUENTIAL DETECTION OF EMERGING TARGETS IN RADAR SEARCH SYSTEM
USCEE-109 N64-31083 22-08

BORESIGHT ERROR IN VARIOUS MONOPULSE TRACKING RADAR SYSTEMS
GE/EE/63-18 N64-31152 22-09

STRIPLINE ALL-PASS NETWORK AS WIDEBAND DISPERSIVE FILTER FOR PULSE COMPRESSION RADAR
AD-421982 N64-31172 22-09

AIRCRAFT LANDING GUIDANCE IN AZIMUTH, ELEVATION, AND RANGE USING GROUND-COUPLED RADARS
RAE-TRANS-1071 N64-32050 23-22

APPLICATION OF STATISTICAL DECISION THEORY TO AUTOMATIC RADAR DETECTION SYSTEMS
NEL-1202 N64-32577 23-20

L-BAND TRAVELING WAVE TUBE FOR APPLICATION IN PHASED ARRAY RADAR SYSTEMS
AD-600312 N64-33050 24-09

CORRELATION FUNCTIONS FOR SCATTER PROPAGATION IN RADAR SYSTEM
USCEE-110 N64-33363 24-08

INTERFERENCE PARAMETERS OF RADAR SYSTEMS
REPT.-1 N64-33848 24-08

RADAR TARGET SCATTER SITE /RATSCAT/ PROGRAM
RADAR TARGET SCATTER SITE RADAR CROSS SECTION MEASUREMENT RANGE N64-24750 17-10

RADAR TRACKING
ANALYSIS OF RADAR SYSTEM FOR TRACKING ROBIN METEOROLOGICAL BALLOON
AFCRL-63-766 N64-11452 03-21

COMPUTER PROGRAM FOR DETERMINING RADAR COORDINATES OF BALLISTIC MISSILE
ESD-TDR-63-163 N64-13131 04-20

RADAR INVESTIGATION OF METEORS AT HIGH RATES OF DETECTION
NASA-TN-D-2244 N64-13157 04-05

SOLUTION OF OPTIMUM DETECTION AND RECOGNITION OF PULSE RADAR SIGNAL AGAINST NOISE BACKGROUND
N64-15135 07-08

DETERMINATION OF ORBITAL ERROR BEHAVIOR BY RADAR TRACKING DATA N64-15260 07-29

TRAJECTORY MIDCOURSE GUIDANCE USING RADAR TRACKING AND ON-BOARD OBSERVATION DATA
NASA-TN-D-2238 N64-17773 09-08

UPPER AIR DENSITY AND TEMPERATURE MEASURED BY RADAR-TRACKED FALLING SPHERES
NASA-CR-29 N64-17831 09-12

GUIDING FIGHTER AIRCRAFT TO AIRBORNE TARGETS THROUGH PASSIVE AND ACTIVE RADAR JAMMING INTERFERENCE
FTD-TT-62-1879/1&2 N64-19193 11-22

C-BAND RADAR-BEACON TRACKING FOR MERCURY PROJECT
N64-20496 13-08

ACCURACY OF METEOROLOGICAL DATA FROM FLIGHTS OF ARCAS ROCKET AND ROBIN BALLOON TRACKED BY RADAR
AFCRL-63-938 N64-21822 15-21

SIGNAL EMISSION CHARACTERISTICS RELATED TO SEARCH AND TRACKING RADAR INTERFERENCE PREDICTION MODELS
N64-22819 16-09

GAUSSIAN CURVE DESCRIPTION OF MUTUAL GAIN PROPERTIES OF RADAR TRACKING ANTENNA
N64-22829 16-09

RADAR TRACKING DATA OF SOVIET SATELLITES COSMOS I AND COSMOS II - COMPARISON OF IONOSPHERIC DATA WITH VERTICAL SOUNDING DATA
E-T-R-64-20 N64-28280 20-12

PULSE RADAR PERFORMANCE EVALUATIONS
N64-29108 21-08

ERROR STUDY OF SHIPBOARD RADAR TRACKING SYSTEM - DOWNRANGE ANTIMISSILE MEASUREMENTS

DAMP-TM-62-19 N64-31259 22-08

RADIAL DISTRIBUTION
METHOD FOR OBTAINING RADIAL DISTRIBUTIONS FROM OPTICAL MEASUREMENTS ON CYLINDRICAL PLASMA
SC-4939/RR/ N64-13930 05-24

RADIAL DENSITY AND TEMPERATURE PROFILE IN HIGH PRESSURE XENON DISCHARGE
FTP-TT-64-375/1&2 N64-33103 24-23

RADIANT ENERGY
CF EMISSION
THEORY OF CHLORELLA CULTIVATION BASED ON ABSORPTION OF RADIANT ENERGY
JPRS-18432 N64-11044 02-16

RADIANT ENERGY LOSS FROM CESIUM-ARGON PLASMA TO INFINITE PARALLEL PLANE ENCLOSURE
AVCO-EVERETT RES. REPT.-175 N64-17119 09-24

GERMANIUM SOLAR CELLS FOR RADIANT ENERGY CONVERSION N64-19838 12-06

SPECTRAL DISTRIBUTION OF ENERGY RADIATED BY HIGH TEMPERATURE EQUILIBRIUM AIR
DASA-1435 N64-21592 15-13

EVALUATION OF RESISTANCE AND RADIANT HEATING METHODS FOR HIGH TEMPERATURE TENSILE TESTING
REPT.-9347 N64-22053 15-13

VAPORIZATION OF SOLIDS BY ABSORBED RADIATION ENERGY
FTD-TT-63-77/1&2 N64-22341 15-13

RADIANT ENERGY DETECTORS FOR HOMING DEVICES N64-24601 17-15

MAGNITUDE OF ENERGY RADIATED FROM TARGETS AND DETECTED BY HOMING DEVICES IN GUIDED MISSILES N64-24603 17-22

RADIANT ENERGY TRANSFER IN SCATTERING AND ABSORBING MEDIUM
AFCRL-64-366 N64-25474 17-12

THEORETICAL CALCULATIONS OF CONTINUUM OPACITIES AND RADIANT EMISSION FROM ISOTHERMAL AND NONISOTHERMAL GASES
TR-44 N64-26286 18-24

RADIANT ENERGY EMISSION FROM ISOTHERMAL AND NONISOTHERMAL GASES N64-26288 18-11

INFLUENCE OF RADIANT ENERGY TRANSFER ON ONE DIMENSIONAL SHOCK WAVE PROPAGATION N64-26336 18-13

RADIANT ENERGY CONVERSION USING THIN DIELECTRIC FILMS
AIAA PAPER-64-729 N64-28408 20-06

RELATION OF RADIANT ENERGY FROM FLAME TO MOLECULAR STRUCTURE OF HYDROCARBON FUELS
RDR-3752-64R N64-28690 20-26

THERMOCONDUCTIVITY AND RADIANT ENERGY MEASURING APPARATUS FOR NONELECTRIC CONDUCTORS AT HIGH TEMPERATURES
NASA-CR-58132 N64-28966 20-15

MONTE CARLO SOLUTION OF RADIANT ENERGY TRANSFER AND TEMPERATURE IN NONGREY NONISOTHERMAL GAS BETWEEN PARALLEL BLACK WALLS
NASA-RP-317 N64-31208 22-13

RADIATIVE ENERGY TRANSFER IN CLOUDS N64-31530 23-23

DIFFUSION CONTROLLED IGNITION OF ORGANIC SOLIDS BY INTENSE RADIANT ENERGY
WSS/CI PAPER-64-7 N64-32518 23-26

RADIANT HEATING
LONGITUDINAL HEAT CONDUCTION AND RADIANT INTERCHANGE BETWEEN NONISOTHERMAL FINITE SURFACES IN FIN-TUBE RADIATORS
NASA-TN-D-2077 N64-11193 02-13

TEMPERATURE PROFILE & HEAT TRANSFER IN RADIATION-ABSORBING GRAY GAS ENCLOSED BETWEEN PARALLEL FLAT PLATES WITH FLOW AND CONDUCTION
NASA-TR-R-154 N64-11558 03-13

RADIANT HEAT TRANSFER TO ABSORBING GRAY GASES IN CIRCULAR PIPE WITH CONDUCTION, GAS FLOW, AND INTERNAL HEAT GENERATION
NASA-TR-R-156 N64-11559 03-13

RADIANT HEAT TRANSFER IN ATMOSPHERES OF VENUS AND MARS N64-11650 03-29

IGNITION AND ABLATION RESPONSES OF CELLULOSIC MATERIALS TO HIGH RADIANT HEAT LOADS
WSS/CI PAPER-64-8 N64-32930 24-26

RADIATION
SA ACOUSTIC RADIATION
SA ALPHA RADIATION
SA ATMOSPHERIC RADIATION
SA BACKGROUND RADIATION
SA BLACK BODY RADIATION
SA CERENKOV RADIATION
SA COHERENT RADIATION
SA CONTINUUM RADIATION
SA COSMIC RADIATION
SA CYCLOTRON RADIATION
SA DIFFUSE RADIATION
SA EARTH RADIATION
SA ELECTROMAGNETIC RADIATION
SA ELECTRON RADIATION
SA GALACTIC RADIATION
SA GAMMA RADIATION
SA GRAVITATIONAL RADIATION
SA HARMONIC RADIATION
SA INCIDENT RAY
SA INFRARED RADIATION
SA IONIZING RADIATION
SA IRRADIATION
SA LONG WAVE RADIATION
SA MICROWAVE RADIATION
SA MONOCHROMATIC RADIATION
SA NONEQUILIBRIUM RADIATION
SA NUCLEAR RADIATION
SA PLASMA RADIATION
SA POLARIZED RADIATION
SA PULSED RADIATION
SA RADIANT ENERGY
SA RADIATIVE HEAT TRANSFER
SA RADIO FREQUENCY RADIATION
SA REFLECTED RAY
SA SHORT WAVE RADIATION
SA SKY RADIATION
SA SOLAR RADIATION
SA SPACE RADIATION
SA SYNCHROTRON RADIATION
SA TERRESTRIAL RADIATION
SA THERMAL RADIATION
SA TRAPPED RADIATION
SA ULTRASONIC RADIATION
SA ULTRAVIOLET RADIATION
SA VOLTERRA EQUATION
SOLAR RADIATION PRESSURE EFFECT ON SATELLITE ATTITUDE CONTROL
ARC-R&M-3332 N64-10053 01-28

STATIC STABILITY AND RADIATIVE HEATING ASSOCIATED WITH MARS AND VENUS ATMOSPHERIC ENTRY N64-10081 01-13

OPTIMUM FORM FOR RADIATION-COOLED HEAT-CONDUCTING FINS N64-10692 02-23

HEIGHT RESOLUTION OF RADIATION FROM EXTERNALLY VIEWED ATMOSPHERE BASED ON TRANSFER EQUATION N64-10918 02-21

COMBUSTION DRIVEN SHOCK TUBE INVESTIGATION OF TOTAL RADIANCE OF AIR AT HIGH TEMPERATURES
LMSC-6-90-63-97 N64-11240 02-02

RADIATION METHOD FOR PREPARING FINELY DIVIDED METALS & METAL OXIDES N64-11480 03-17

RECOMBINATION RADIATION & LASER ACTION IN GALLIUM ARSENIDE DIODES
TDR-169/3250-11/TN-2 N64-13843 05-25

LINEAR POLARIZATION MEASUREMENTS OF DECIMETER WAVELENGTH RADIATION FROM SMALL DIAMETER RADIO SOURCES
N64-14128 05-08

ION DENSITY MEASUREMENT IN BARIUM PLASMA BY SCATTERING OF RESONANCE RADIATION
MATT-207 N64-15356 07-24

RADIATION HEATING OF STRUCTURAL MATERIALS
NARF-63-8T N64-15366 07-23

RADIATION THEORY AND SCATTERING PROCESSES OF HIGHER ORDER
TIL/T-5425 N64-15555 07-23

NUCLEAR REACTOR INDIUM-GALLIUM RADIATION LOOP
FTD-TT-63-553/1&2&4 N64-16051 07-23

PRODUCTION OF RADIATION OF SUBMILLIMETER WAVE-LENGTH FROM RELATIVISTIC ELECTRON BEAM
AD-432143 N64-16845 08-23

SURFACE RADIATION FROM REENTRY VEHICLES
PA-38 N64-17436 09-30

INTERACTION OF RADIATION AND MATTER IN PLASMA
ARL-64-24 N64-17651 09-24

SHOCK LAYER RADIATION OF BLUNT BODIES AT REENTRY VELOCITY
NASA-TR-R-193 N64-17829 09-24

PRESSURE DURING EVAPORATION OF SUBSTANCE IN BEAM OF RADIATION
FTD-MT-63-35/1&2 N64-18750 11-25

INFLUENCE OF RADIATION HEAT EXCHANGE ON REMOVAL OF SUBSTANCE IN CRITICAL POINT OF BLUNT-NOSED BODY
FTD-MT-63-60/1&2 N64-18757 11-13

RADIATIVE TRANSITION PROBABILITIES IN HYDROGEN
UCRL-7088, REV. 1 N64-18996 11-24

RADIATION, GAS DIFFUSION, AND FISSION PRODUCT RESEARCH ON BERYLLIUM OXIDE, CERAMICS, AND REFRACTORY METALS
GEMP-34A N64-19016 11-23

EQUATIONS FOR MUTUAL SELF-RADIATION IMPEDANCES BETWEEN ARRAY OF ELEMENTS WITH FREE-FLOODING, COAXIAL, SPACE RING TRANSDUCERS
U-178-48 N64-19133 11-23

RADIATION PASTEURIZATION OF FOODS
TID-7684 N64-20717 13-17

LABORATORY SYSTEM FOR SIMULATION OF AERODYNAMIC AND RADIATIVE COOLING OF STRUCTURES
RTD-TDR-63-4235 N64-20863 14-10

PROBE SYSTEM FOR MEASUREMENT OF INSTANTANEOUS TEMPERATURES OF RADIATION HEATED SURFACES
RTD-TDR-63-4015 N64-21489 14-06

RADIATION MONITORING DURING FLIGHT OF VOSTOK III AND VOSTOK IV SPACECRAFT N64-21641 15-28

RADIATION EMANATION OF NEODYMIUM IONS
N64-21859 15-07

ATMOSPHERIC EFFECT ON RADIATION OF ARC DISCHARGES
FTD-TT-63-19/1&2 N64-22337 15-24

COMPUTER PROGRAM FOR DETERMINING IMPINGING RADIATION HEAT LOADS AND TRANSIENT TEMPERATURES OF ORBITING SATELLITES
NASA-CR-56278 N64-22466 15-13

AIR RADIATION FROM NONEQUILIBRIUM WAKES OF BLUNT HYPERSONIC REENTRY VEHICLES
RM-4071-ARPA N64-22616 15-11

LIGHT RADIATION PRESSURE ON DUST AND GAS - INTERSTELLAR MOTION AND STRUCTURE OF NEBULAS
N64-23182 16-29

TRANSPORT THEORY AND RADIATION CHART FOR OZONE IN ATMOSPHERE N64-24476 17-21

RADIATION COOLED NUCLEAR ROCKET NOZZLE FOR LONG FIRING DURATION
AIAA PAPER-64-389 N64-24911 17-27

NUCLEAR RADIATION HEATING IN LIQUID HYDROGEN
NASA-CR-54078, VOL. 1 N64-25009 17-27

PLASMA ARC SPRAYED FREE STANDING SHAPES FOR RADIATION COOLED THRUST CHAMBER
N64-25409 17-18

FUNDAMENTAL EQUATIONS OF RADIATION GAS DYNAMICS
N64-26153 18-11

ASTROPHYSICS AND QUANTITATIVE COMBUSTION SPECTROSCOPY WITH REFERENCE TO RADIATIVE PROPERTIES OF HOT GASES N64-26339 18-26

EFFECT OF NONISOTHERMAL AND NONGRAY GAS ON EMISSIVITY AT CENTER OF BASE OF CYLINDRICAL GAS BODY
NASA-CR-58208 N64-26871 18-07

RADIATION AND ACCOMMODATION COEFFICIENTS OF TUNGSTEN BY HOT FILAMENT METHOD
N64-26973 19-13

RADIATION OF LONGITUDINAL WAVES IN MEDIA WITH WEAK SPATIAL DISPERSIONS N64-27168 19-24

HEAT TRANSFER MEASUREMENTS, CONVECTIVE HEAT TRANSFER, SHOCK FRONT STUDIES, RADIATION IN NITROGEN-CARBON DIOXIDE MIXTURES, AND MAGNETOHYDRODYNAMICS
NASA-CR-58050 N64-27300 19-24

ELECTROMAGNETIC THEORY - DIFFRACTION, WAVE GUIDES, RADIATION AND COMMUNICATIONS
AFCRL-64-384 N64-27647 19-01

PREDICTING GASEOUS RADIATION CHARACTERISTICS OF BLUNT BODIES AT HYPERSONIC SPEEDS - ULTRAVIOLET EMISSION
CARDE-TR-504/64 N64-28015 20-11

RADIATION FROM LINEAR SOURCE IN GROUND PLANE COVERED BY WARM PLASMA SLAB
ATN-64/9230/-3 N64-28161 20-24

RADIATION CHARACTERISTICS OF PLANAR BROADSIDE ARRAY OF DIRECTIVE ELEMENTS
NASA-CR-58355 N64-28756 20-01

RESEARCH PROJECTS IN BIOLOGY, PLASMA PHYSICS, RADIATION, PROPELLANTS, AND SOLID STATE PHYSICS
NASA-CR-58625 N64-28891 20-23

IONIZATION OF AND RADIATION FROM SODIUM DURING REENTRY - CHEMISTRY OF SODIUM IN HYDROGEN/CARBON MONOXIDE/AIR FLAMES
AROD-5137-1 N64-29013 20-07

SURFACE TEMPERATURE OF LUNAR SEAS AND CONTINENTS BY RADIATION FLOW VALUES IN TWO SPECTRAL REGIONS
JPRS-26521 N64-30575 22-23

NONDESTRUCTIVE SPECIFIC GRAVITY MEASURING EQUIPMENT USING RADIATION TECHNIQUE
REPT.-58-92-PR-59 N64-31237 22-15

VERTICAL DIRECTION FINDING BY FIELD STRENGTH COMPARISON OF TWO FIXED EMITTERS OF DIFFERENT RADIATION PATTERNS
E-T-G-63-14 N64-31274 22-22

CONFINED ELECTROMAGNETIC FIELD SHIELDING OF SPACECRAFT - ACTIVE SHIELDING OF IONIZED RADIATION IN SPACE
NASA-CR-58950 N64-31552 23-34

ELLIPTICAL RADIATION FURNACE APPARATUS FOR DETERMINATION OF DYNAMIC YOUNG MODULUS AND INTERNAL FRICTION UTILIZING TRANSVERSE FREE VIBRATION IN VACUUM
DMS-63-17 N64-31690 23-25

IBM 7090 DIGITAL COMPUTER SIMULATION OF RADIATION PATTERNS OF ULTRAHIGH FREQUENCY ANTENNA ARRAYS ABOVE FINITELY-CONDUCTING PLANE SURFACES

GE/EE/63-16 N64-32100 23-08

RADIATING AND CIRCUIT PROPERTIES OF CIRCULAR LOOP ANTENNA IMMERSED IN CONDUCTING MEDIA
AFCRL-64-339 N64-32617 23-08

DISTRIBUTION OF CURRENT ON CONVEX SURFACE TO INSURE SHARPLY DIRECTIONAL RADIATION
N64-32903 24-08

SOLID STATE PHYSICS - THEORY, CRYSTALS, METALS, NONMETALS, AND RADIATION METALLURGY
ORNL-3676 N64-32925 24-25

COMPARATIVE ANALYSIS OF IONIZATION CURRENTS FOR PAIRS OF PARALLEL CYLINDRICAL ELECTRODES SUBJECTED TO COBALT 60 RADIATION
NARF-63-16T N64-33556 24-23

MICROWAVE CIRCUIT DEVICES TO CONTROL COHERENT OPTICAL BEAMS USING BIREFRINGENT CRYSTALS - LASER RADIATION
RM-234J N64-33839 24-25

TWO-STREAM APPROXIMATION FOR RADIATIVE TRANSFER OF ENERGY THROUGH SPHERICALLY SYMMETRIC MEDIA
DASA-1486 N64-33846 24-23

RADIATION ABSORPTION
TEMPERATURE PROFILE & HEAT TRANSFER IN RADIATION-ABSORBING GRAY GAS ENCLOSED BETWEEN PARALLEL FLAT PLATES WITH FLOW AND CONDUCTION
NASA-TR-R-154 N64-11558 03-13

RADIANT HEAT TRANSFER TO ABSORBING GRAY GASES IN CIRCULAR PIPE WITH CONDUCTION, GAS FLOW, AND INTERNAL HEAT GENERATION
NASA-TR-R-156 N64-11559 03-13

EFFECT OF IONOSPHERIC ABSORPTION OF SOLAR PARTICLE RADIATION ON ARCTIC HIGH FREQUENCY PROPAGATION
N64-12421 04-28

ION BEAM NEUTRAL COMPONENT DETERMINATION BY RESONANCE RADIATION ABSORPTION
AIAA PAPER-64-9 N64-14157 05-23

ULTRAVIOLET RADIATION ABSORPTION BY PEPTIDES FOR DETECTION OF EXTRATERRESTRIAL LIFE ON MARS
NASA-CR-55655 N64-16109 07-16

BALANCE OF TROPOSPHERE AND EARTH ATMOSPHERE RADIATION ABSORPTION IN ARCTIC REGION
AD-433672 N64-18221 10-21

INFRARED ABSORPTION OF HYDROGEN AND DEUTERIUM IONS IN CALCIUM FLUORIDE
AFCRL-64-284 N64-18878 11-25

THERMAL RADIATION ABSORPTION IN RECTANGULAR GROOVE CAVITIES
ASME PAPER-62-WA-52 N64-19255 11-23

INFRARED ABSORPTION AND DISPERSION, ULTRASONICS, AND MOLECULAR STRUCTURE STUDIES
AFCRL-64-368 N64-22268 15-07

MICROPHOTOMETER USED AS RADIATION RECEIVER IN SPECTRAL ANALYSIS N64-23190 16-19

ROLE OF EARTH IN COSMIC RAY ABSORPTION, CREATION OF FORBUSH TYPE EFFECTS, AND IN 27-DAY AND 11-YEAR VARIATIONS N64-24432 17-28

ACTINOMETRIC OBSERVATIONS OF ALBEDO RADIATION ABSORPTION N64-24794 17-21

ABSORPTION OF RESONANCE RADIATION IN CESIUM VAPOR AND EFFECT OF RESONANCE RADIATION ON IONIZATION PROCESSES IN CESIUM VAPOR PLASMAS
EOS-3130-ANNUAL N64-24915 17-24

GYRORESONANT RADIATION AND ABSORPTION IN EQUILIBRIUM MAGNETOACTIVE PLASMA
N64-27156 19-24

SUGGESTED VALUES FOR FLUORESCENCE YIELDS & ABSORPTION JUMP RATIOS BY CHARACTERISTIC RADIATION ANALYSIS - MICROPROBE ANALYSIS
NLCO-917 N64-31016 22-23

RADIATIVE PROPERTIES OF ATMOSPHERIC GASES AND RADIATIVE ABSORPTION OF SOUND N64-32261 23-23

RADIATION BELT
SA OUTER RADIATION BELT
CF TRAPPED RADIATION
ARTIFICIAL RADIATION BELT SYNCHROTRON RADIATION CALCULATION
NASA-RP-67 N64-10359 01-28

EXISTING RELATIONSHIP OF RADIATION BELTS TO CELESTIAL BODIES
JPRS-17582 N64-10480 01-28

EARTH SATELLITE STUDY OF ATMOSPHERIC AND IONOSPHERIC COMPOSITION, RADIATION BELTS AND COSMIC RADIATION N64-10796 02-28

ANALYSIS OF EXPLORER VI & PIONEER V DATA ON RADIATION BELTS & GEOMAGNETIC FIELD
NASA-CR-55104 N64-12159 03-32

OBSERVATION OF STARFISH AND SOVIET ARTIFICIAL RADIATION BELTS
NASA-CR-55187 N64-13057 04-28

HEAD SHOCK WAVE IN FRONT OF EARTH AND ITS EFFECT ON RADIATION BELTS
JPRS-22759 N64-13164 04-28

HAZARDS ASSOCIATED WITH VAN ALLEN PROTONS AND SOLAR FLARES
AD-428574 N64-15420 07-28

STRUCTURAL CHANGES IN OUTER RADIATION BELT CAUSED BY MAGNETIC STORMS - EXPLORER XII DATA
N64-15700 07-28

CALCULATION OF SYNCHROTRON RADIATION FROM ARTIFICIAL RADIATION BELT
NASA-TN-D-2097 N64-16117 08-12

LAUNCHING OF ELECTRON SPACE SYSTEMS FOR EARTH RADIATION BELT STUDY
JPRS-23810 N64-17554 09-32

RADIATION BELT MEASUREMENT BY SATELLITES ELEKTRON-1 AND ELEKTRON-2
JPRS-24378 N64-18982 11-12

EXPLORER XV SATELLITE OBSERVATIONS OF NATURAL AND ARTIFICIAL RADIATION BELTS N64-19225 11-12

MEASUREMENT OF EARTH ALBEDO, RADIATION BELT ENERGY DISTRIBUTIONS, ELECTRON PRECIPITATION, AND INFRARED RADIATION - SPACE PHYSICS PROGRAM
TDR-169/3260-01/TN-2 N64-19998 12-12

PROTON FLUXES ALONG LOW ACCELERATION TRAJECTORIES THROUGH VAN ALLEN BELT - RADIATION HAZARD FOR MANNED INTERPLANETARY SPACE FLIGHTS
NASA-RP-193 N64-21281 14-28

ELECTRON SPECTRA IN RADIATION BELT IN FALL 1962
UCRL-7659 N64-23265 16-28

PROTON SPECTROMETER USING SEMICONDUCTOR DETECTORS FOR SPACE RADIATION MEASUREMENTS
ML-TDR-64-1 N64-24194 16-15

TIME DEPENDENCE OF RADIATION BELT LIFETIMES AND SOME APPLICATIONS
NASA-CR-56828 N64-25566 17-28

ENERGY SPECTRA OF PROTONS IN OUTER RADIATION BELT
NASA-TM-X-55007 N64-27247 19-28

CHANGES IN VAN ALLEN BELT PROTON POPULATION DURING SOLAR CYCLE
NASA-TM-X-55013 N64-27250 19-28

GEOMAGNETIC FIELD EFFECTS IN MAGNETOSPHERE AND RADIATION BELTS
P-2917 N64-30822 22-28

TERRESTRIAL RADIATION BELT IN REGION OF BRAZILIAN MAGNETIC ANOMALY N64-31534 23-12

EXPLORER XII PROTON DETECTOR ANALYSIS OF MAGNETIC EFFECTS OF QUIET TIME PROTON BELT
NASA-TM-X-55078 N64-33627 24-28

RADIATION DETECTOR
SUMMARY OF RESEARCH IN ATMOSPHERIC PHYSICS, RADIOLOGICAL CHEMISTRY & PHYSICS, CHEMICAL EFFLUENTS, & INSTRUMENTATION
HW-77609 N64-11345 02-01

NEUTRON PHYSICS PROGRAM - REACTOR PHYSICS, CRITICAL EXPERIMENTS, SHIELDING, COMPUTER PROGRAM, RADIATION DETECTOR, & WATER DESALTING
ORNL-3499, VOL. 1 N64-11472 03-23

NEUTRON PHYSICS - RADIATION SHIELDING, SECONDARY RADIATION, & RADIATION DETECTORS
ORNL-3499, VOL. 2 N64-12531 04-01

BLACK BODY RADIATION DETECTOR FOR USE AS STANDARD IN EVALUATION OF INFRARED DETECTORS
NOLC-594 N64-13820 05-13

OFF-SITE RADIOLOGICAL MONITORING FOR MISSILE TEST RANGE N64-14573 06-10

SENSITIVE SODIUM IODIDE MONITOR FOR GAMMA RADIATION
DP-856 N64-14946 06-15

RADIOMETER AND LEAD SULFIDE DETECTOR FOR STUDYING INFRARED RADIATION FROM CHEMILUMINESCENT HIGH ALTITUDE CHEMICAL RELEASES DURING FIREFLY PROJECT N64-15086 07-23

DETECTION OF ALPHA CONTAMINATION FROM URANIUM DUST IN ATMOSPHERE
K-1589 N64-17742 09-15

AUTOMATIC SAMPLE CHANGER FOR GAMMA SCINTILLATION WELL DETECTOR
HW-80798 N64-20670 13-15

INSTRUMENTATION AND CONTROL SYSTEMS FOR RADIATION DETECTION, MONITORING, REACTOR CONTROL, DATA HANDLING, COMPUTATION, AND ACCELERATOR PROGRAMS
ORNL-3578 N64-21112 14-15

TRANSISTORIZED ALPHA RADIATION DETECTOR FOR HAND CONTAMINATION DETECTION
RFP-348 N64-21350 14-15

DETECTION OF RADIATION FROM OXYGEN RECOMBINATION INDUCED BY SATELLITE PASSAGE FOR AEROSPACE VEHICLE DETECTION N64-23012 16-28

PROTON SPECTROMETER USING SEMICONDUCTOR DETECTORS FOR SPACE RADIATION MEASUREMENTS
ML-TDR-64-1 N64-24194 16-15

GAMMA RAY DETECTOR FOR COUNTING SMALL ANIMALS IN METABOLISM CAGE
LF-14 N64-26030 18-15

ELECTROSTATIC RADIATION DETECTOR
FFIF-F-452 N64-27511 19-15

RADIATION DETECTOR SYSTEM FOR DEFINING LOCATION, CURIE STRENGTH AND ENERGY LEVEL OF GAMMA-EMITTING SOURCES
AFSWC-TDR-63-28 N64-31047 22-23

PORTABLE NEUTRON GENERATORS IN NUCLEAR GEOPHYSICS - RADIATION DETECTOR, INELASTIC NEUTRON SCATTERING, NUCLEAR RADIATION, AND THERMAL NEUTRONS
FTD-MT-63-283 N64-31776 23-12

NEUTRON GENERATOR APPLICATIONS - ROCK DENSITY READINGS, INSTRUMENT DEVELOPMENT, RADIATION DETECTORS, AND NUCLEAR LOGGING N64-31792 23-12

RADIATION DISTRIBUTION
RADIATION DISTRIBUTION CHARACTERISTICS OF SIDE FIRE HELICAL ANTENNA
RADC-TDR-63-360 N64-11757 03-08

STATIC MAGNETIC FIELD EFFECT ON RADIATION PATTERN OF PLASMA COATED SLOT ANTENNA
AFCRL-63-347 N64-12193 03-24

IONIZED FLOW FIELD ABOUT HEMISPHERE CYLINDER AND EFFECT ON RADIATION PATTERN OF SLOT ANTENNA
AFCRL-63-339 N64-12195 03-09

RADIATION PATTERNS OF HIGH FREQUENCY & VERY HIGH FREQUENCY ANTENNA SYSTEMS
NASA-TM-X-940 N64-13053 04-08

ANTENNAS WITH OMNIDIRECTIONAL COVERAGE FOR SPACE VEHICLE APPLICATION - MANY RADIATORS AROUND CIRCUMFERENCE OF VEHICLE - RADIATION PATTERNS
NASA-CR-55191 N64-13336 04-30

LONG WAVE RADIATION & TOTAL RADIATION BALANCE AT SURFACE IN ARCTIC
AFCRL-63-909 N64-13770 05-21

PHASE ERRORS OF HAYSTACK ANTENNA RADIATION PATTERNS DUE TO SURFACE DEVIATIONS
AD-418470 N64-14091 05-08

RADIATION FROM DIRECTIVE ANTENNA EMBEDDED IN AN ANISOTROPIC HALF SPACE
PIBMRI-1183-63 N64-14483 06-09

BIBLIOGRAPHY - RADIATION PLUME GEOMETRY OF MISSILES
REPT.-8-109-63-6 N64-14492 06-30

VARIOUS TYPES OF ANTENNAS ON DIFFERENT GEOMETRIC STRUCTURES AND RADIATION PATTERNS IN DIFFERENT ENVIRONMENTS
TECH. REPT. 81 N64-14771 06-09

COMPLETE RADIATION PATTERN OF AXIAL ANTENNA SLOT ON PLASMA-CLAD CYLINDER, FOR USE IN REENTRY VEHICLE COMMUNICATIONS ENGINEERING
USCEC-82-201 N64-15077 07-09

RADIATIVE DIVERGENCE AND EFFECT ON TEMPERATURE PROFILE AND DYNAMICS OF ATMOSPHERE N64-15408 07-21

RADIATION BALANCE AND VERTICAL DISTRIBUTION IN ATMOSPHERE N64-15409 07-21

ATTITUDE STABILIZATION OF BEAM RADIATION MAKING USE OF STABILIZED REFLECTOR - ANTENNA
SSD-TDR-63-358 N64-17357 09-30

RELATION OF COMPLEX GUIDED WAVES TO RADIATION PATTERNS
AFCRL-62-523 N64-17365 09-23

DAYTIME RADIATION PATTERNS FROM TIROS III SATELLITE OVER UNITED STATES
AFCRL-64-34 N64-17632 09-21

RADIATION PATTERNS AND KINETIC HEATING STUDIES OF MISSILE ANTENNAS N64-18208 10-09

MEASURED AND CALCULATED NUCLEAR RADIATION DISTRIBUTIONS IN LIQUID HYDROGEN
NASA-CR-54003 N64-18350 10-23

TIROS III OBSERVATION OF INFRARED RADIATION PATTERNS IN 8-12 MICRON RANGE OVER CARIBBEAN SEA
AFCRL-64-236 N64-18896 11-21

PLANE PHASED ANTENNA ARRAYS - PATTERN DISTRIBUTION
RM-3963-ARPA N64-19560 12-09

RADIATION PATTERN DISTORTION OF PLASMA-COVERED ANTENNA
AFCRL-64-18 N64-19645 12-24

RELATIONSHIP BETWEEN ERROR IN CURRENT DISTRIBUTION AND DISPLACEMENT OF MAIN BEAM OF RADIATION PATTERN FOR ANTENNA SYSTEMS
FTD-TT-63-1079/1&2 N64-19753 12-09

RADIATION PATTERNS AND CURRENT DISTRIBUTIONS COMPARED WITH COMPUTED RESULTS FOR SINGLE AND ARRAY ANTENNAS
TECH. REPT.-383 N64-19948 12-09

RADIATION PATTERN OF PARALLEL PLATE TRANSVERSE

ELECTROMAGNETIC MODE WAVEGUIDE APERTURE
AD-433718 N64-20353 13-08

UHF AND VHF ANTENNA BEAM PATTERN STUDY
REPT.-5549-7-P N64-20571 13-09

DOSIMETRY, RADIATION DISTRIBUTION, RADIATION PROTECTION, RADIOBIOLOGY, AND BIOPHYSICS
NYO-2740-1 N64-21035 14-23

MEANS OF CONTROLLING UNDESIRED RADIATION FOR HORN, PARABOLIC REFLECTOR, AND LUNEBERG LENS ANTENNAS FOR REDUCING RADIO FREQUENCY INTERFERENCE
RADC-TDR-63-549 N64-21071 14-09

CONTROL OF ANTENNA RADIATION PATTERN BY INTEGRATED ANTENNA CIRCUIT DESIGN
REPT.-1566-10 N64-22955 16-09

EQUATION OF THIN CYLINDRICAL ANTENNA IN PLASMA WITH ALLOWANCE FOR SPATIAL DISPERSION
N64-23790 16-08

RATIO OF MONOCHROMATIC RADIATION SCATTERING TO DIRECT SOLAR RADIATION FOR ULTRAVIOLET AND VISIBLE SPECTRUMS
N64-24796 17-28

ACTINOMETRIC OBSERVATIONS OF RADIATION CLIMATE OF CENTRAL ARCTIC
N64-24797 17-21

GLOBAL DISTRIBUTION BALANCE OF RADIATION DETERMINED BY TIROS SATELLITE
NASA-RP-225 N64-24965 17-12

TEMPORAL DISTRIBUTION OF EXTENSIVE AIR SHOWERS OF COSMIC RAYS
N64-25944 18-28

ARRAYS OF PARALLEL THIN WIRES USED TO APPROXIMATE SCATTERING PATTERNS OF SOLID CURVED AND FLAT SURFACES
REPT.-1522-7 N64-28147 20-08

LOG PERIODIC MONOPOLE ANTENNA - COMPUTER ANALYSIS AND RADIATION PATTERN
NASA-CR-58628 N64-29701 21-08

RADIATION PATTERNS OF LOG PERIODIC MONOPOLE ANTENNAS
N64-29703 21-08

EFFECT OF DIELECTRIC BODY PLACED NEAR DIPOLE ANTENNA ON HORIZONTAL PATTERN OF ANTENNA
CRI-2118 N64-31240 22-08

GEOGRAPHICAL DISTRIBUTION OF RADIATION INTENSITY IN BRAZILIAN MAGNETIC ANOMALY AREA FROM COSMOS SATELLITE DATA
N64-31533 23-12

ANTENNA PATTERN DISTORTION PRODUCED BY LAYER OF PLASMA
AFCRL-64-511 N64-31682 23-08

MEASUREMENTS OF FAR FIELD RADIATION PATTERNS IN NEAR FIELD OF RADIATING LENS FED WITH GOUBAU BEAM WAVEGUIDE
TR-81 N64-33028 24-08

RADIATION DOSE
GRAPHICAL CALCULATION OF SHIELD THICKNESS FOR GAMMA RAY OVERDOSE PROTECTION
AEET/HP/TH-4 N64-10230 01-23

ESTIMATES OF RADIATION DOSES IN SPACE FROM VAN ALLEN BELT RADIATION, GALACTIC COSMIC RADIATION, & SOLAR COSMIC RADIATION
N64-11648 03-28

RADIOACTIVITY TABLE FOR DETERMINATION OF DOSAGE TO BODY ORGANS
N64-11736 03-16

EXCRETION RATE OF RADIACTIVE SODIUM FROM RATS AND RABBITS FOR INTERNAL RADIATION DOSES CALCULATION
N64-12434 04-16

CALCULATION OF DOSE IN TISSUE DUE TO NUCLEONS BELOW 400-MEV
N64-12542 04-23

NOMOGRAMS FOR DETERMINING PERMISSIBLE DOSAGE OF FAST NEUTRONS FROM POLONIUM AND BERYLLIUM SOURCES
ELECTROMAGNETIC PROPAGATION WITH ACOUSTIC VIBRATIONS IN MAGNETOSPHERE
FTD-TT-63-862/162 N64-12618 04-23

RADIATION DOSE RECEIVED BY DETECTOR WITH VERTICAL BARRIER BETWEEN IT AND RADIATION FIELD
USNRDL-TR-677 N64-12641 04-23

INCREASED RADIATION IN SOIL, PLANTS, AND ANIMALS IN SOUTHERN NEVADA
UCLA-518 N64-12898 04-16

NEUTRON IRRADIATION EXPOSURE UNIT DETERMINATION
N64-14233 06-23

LATENT IMAGE FADING IN RADIATION MONITORING FILMS DURING STORAGE BEFORE DEVELOPMENT
AECL-1872 N64-14731 06-16

DOSE, PARTICLE ENERGY, AND LINEAR ENERGY TRANSFER /LET/ DISTRIBUTION IN OMNIDIRECTIONALLY PROTON IRRADIATED SPHERICAL LUCITE PHANTOM
N64-15204 07-16

EFFECT OF RADIONUCLIDE FRACTIONATION ON EXPOSURE DOSE RATE FROM FALLOUT
USNRDL-TR-715 N64-17785 09-23

PROTOTYPE PORTABLE MICROCALORIMETER FOR MEASUREMENT OF ABSORBED RADIATION DOSES
USNRDL-TR-710 N64-18189 10-15

RADIATION DOSE DISTRIBUTION IN MODEL ASTRONAUT
AMRL-TDR-64-9 N64-18629 11-16

RADIOACTIVE ISOTOPE SHIELDING DESIGN MANUAL - DOSE RATE AND SHIELDING CURVES
NYO-10721 N64-20519 13-27

EFFECTS OF COMPARTMENT WALLS ON NEUTRON AND GAMMA RAY DOSE RATES INSIDE COMPARTMENTED STRUCTURE OF NUCLEAR REACTOR
USNRDL-TR-722 N64-21505 15-23

MEASUREMENT OF RADIATION DOSES RECEIVED BY COSMONAUTS IN VOSTOK III AND VOSTOK IV SPACECRAFT FLIGHTS
N64-21642 15-16

NUCLEAR EMULSION, SCINTILLATION PHOTODOSIMETER, AND X-RAY FILM FOR MEASUREMENT OF COSMIC RADIATION DOSE IN VOSTOK III AND IV SPACECRAFT
NASA-TT-F-8824 N64-22937 16-14

MEASUREMENT OF GAMMA RADIATION DOSE FROM CHANGE IN OPTICAL ACTIVITY OF IRRADIATED CARBOHYDRATES
FTD-TT-63-317/1&264 N64-23096 16-07

DOSE ATTENUATION FOR NEUTRONS STREAMING IN DUCTS OF PROTECTIVE SHELTERS
R-282 N64-23338 16-23

PHYSICAL VALUES FOR GAMMA AND NEUTRON RADIATION DOSAGES
FTD-TT-63-1050/1&264 N64-23437 16-16

RADIATION DOSE ON VOSTOK V AND VOSTOK VI SPACECRAFT
N64-23865 16-16

MEASUREMENT OF AGGREGATE RADIATION DOSE ABOARD SOVIET SPACESHIPS-SATELLITES VOSTOK V AND VOSTOK VI SPACECRAFT
NASA-TT-F-8694 N64-25050 17-28

CYCLIC RADIATION DOSE RATE EFFECT ON RAT HEMATOPOIETIC SYSTEM
N64-25310 17-16

EFFECT OF CONTINUOUS AND FRACTIONATED RADIATION DOSE ON REPRODUCTIVE SYSTEM - SPERM LIFESPAN, COUNT, ACTIVITY
N64-25314 17-16

NEUTRON REFLECTION & FLUX VERSUS DEPTH AND NEUTRON DOSE TRANSMISSION VERSUS SLAB THICKNESS FOR ALUMINUM
BRL-1238 N64-26050 18-23

DOSE-DEPENDENT DEPRESSION OF DEOXYRIBONUCLEIC ACID STUDY BY X-RAY IRRADIATION AND BROMURACIL DEOXYRIBOSIDE IN MAMMALIAN CELLS
NASA RP-245 N64-27392 19-16

EFFECT OF DOSE RATE ON CHROMOSOME ABNORMALITIES IN

LIVER AND MARROW OF MICE IRRADIATED WITH FAST NEUTRONS, GAMMA-, AND X-RAYS
USNRDL-TR-740 N64-27649 19-16

RADIATION DOSIMETRY ABOARD MERCURY /MA-8/ SPACECRAFT
NASA-TN-D-1862 N64-28320 20-16

DETECTOR FOR MEASURING NEUTRON DOSE RATE INDEPENDENTLY OF NEUTRON ENERGY
AE-132 N64-28858 20-15

COSMIC RADIATION DOSE RECEIVED BY COSMONAUTS ABOARD VOSTOK V AND VI SPACECRAFT
N64-29089 21-28

COMPUTER CODE FOR EVALUATION OF SPACE RADIATION ABSORPTION IN BODY OF ASTRONAUT
NASA-CR-58292 N64-29363 21-20

RADIATION FLUXES IN SNAP-10A/AGENA-D AND SNAP-2/ AGENA FLIGHT TEST VEHICLE
FZK-177 N64-30062 21-06

SILVER-ACTIVATED PHOSPHATE-GLASS DOSIMETER TO MEASURE WIDE RANGE OF GAMMA RADIATION DOSAGE
NDL-SP-6 N64-30193 21-15

DIVIDED OR PROLONGED IONIZATION RADIATION OF MICE UNTIL DEATH
UR-649 N64-31035 22-16

GLASS MICRODOSIMETER ROD MEASUREMENT OF RADIATION DOSE WITHIN TISSUE
UR-651 N64-31059 22-16

OXALIC ACID DOSIMETER FOR MEASURING MEGARAD DOSES OF GAMMA RADIATION
USNRDL-ER-14 N64-31283 22-17

EXPERIMENTAL INVESTIGATION OF SPATIAL DISTRIBUTION OF RADIATION DOSE IN AIR-OVER-GROUND GEOMETRY
CEX-62.14 N64-32082 23-23

EXPONENTIAL MODEL FOR DETERMINING ABSORBED DOSAGE OF RADIOISOTOPE IN HUMAN BODY
FTD-TT-63-923/1&2 N64-32662 23-16

RADIATION EFFECT
BIOMEDICAL EVALUATION OF BURN SHOCK AGAINST BACKGROUND OF RADIATION EFFECT N64-10009 01-16

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JPRS-21754 N64-10121 01-16

POTENTIAL CONTRIBUTIONS TO BIOLOGY FROM EXPERIMENTAL STUDIES IN SPACE - RADIATION EFFECT
N64-10266 01-16

EFFECT OF SOLAR RADIATION ON HUMAN BLOOD AND CIRCULATORY SYSTEM
JPRS-21864 N64-10327 01-16

NUCLEAR RADIATION EFFECT ON MATERIALS AT CRYOGENIC TEMPERATURES
NASA-CR-52498 N64-10370 01-18

RADIATION DAMAGE TO OVARIES, AND ELECTRICAL STIMULATION OF HEART IN MICE - BIBLIOGRAPHY
JPRS-18045 N64-10453 01-16

IONIC POLYMERIZATION, & POLYMERIZATION IN SOLID PHASE - RADIATION POLYMERIZATION
JPRS-18868 N64-10581 01-07

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JPRS-21472 N64-10596 01-16

IRRADIATION EFFECTS ON MICE AND RABBITS, THYROID FUNCTION DETERMINATION, RADIOBIOLOGY, AND MAMMARY CANCER PREOPERATIVE IRRADIATION
JPRS-18904 N64-10807 02-16

ULTRAPURE MATERIALS, RADIATION EFFECTS, REACTORS, RADIOCHEMISTRY, RADIATION HAZARD, AND PARTICLE ACCELERATOR - COMPILATION OF PAPERS
JPRS-20730 N64-10844 02-01

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JPRS-22022 N64-10856 02-16

RADIOLOGICAL MEDICAL ENCYCLOPEDIA
JPRS-18414 N64-10866 02-16

NUCLEAR RADIATION EFFECT ON ORGANIC MATERIALS
N64-10898 02-07

FUNCTIONAL AND BEHAVIORAL EFFECT OF IRRADIATION ON NERVOUS SYSTEM N64-10934 02-16

MANHATTAN PROJECT WORK ON BIOLOGICAL EFFECTS OF EXTERNAL RADIATION N64-10936 02-16

EFFECT OF IONIZING RADIATION ON WOUNDS - SURGERY TEXTBOOK
JPRS-19278 N64-11066 02-16

EFFECT OF IONIZING RADIATION ON NERVOUS SYSTEM
JPRS-19284 N64-11067 02-16

IONIZING RADIATION EFFECT ON VISUAL PATHWAY & EYE OF CAT
UCRL-11005 N64-11097 02-16

IONIZING RADIATION - EFFECT ON NERVOUS SYSTEM AND CHANGES IN NEURAL TISSUE DUE TO IRRADIATION
JPRS-20317 N64-11136 02-16

PATHOGENIC EFFECT OF LOW & MEDIUM DOSES OF GAMMA RADIATION ON CARRION FLIES AND THEIR PROGENY
JPRS-22107 N64-11272 02-16

PROTON AND GAMMA IRRADIATION EFFECT ON FUNCTION OF VESTIBULAR ANALYZER IN DOGS
JPRS-22120 N64-11273 02-16

CONDITIONS OF COMPLETE INHIBITION OF ANTIBODY PRODUCTION IN MONKEYS AFTER GAMMA IRRADIATION IN LARGE DOSES
JPRS-22121 N64-11274 02-16

RADIATION EFFECT IN BERYLLIUM OXIDE, GAS DIFFUSION IN UNFUELED CERAMICS, CERAMIC FUEL CONVERSION, AND REFRACTORY-METAL FUEL SYSTEMS
GEMP-28A N64-11291 02-19

IONIZING RADIATION EFFECT ON LIVER PROTEIN & BIOELECTRIC CURRENT IN MUSCLES
JPRS-18760 N64-11346 02-16

IRRITATING EFFECT OF X-RAY IRRADIATION IN RABBITS
JPRS-19806 N64-11353 02-16

IONIZING & X-RAY RADIATION EFFECTS ON MICE - GLANDS & PROTECTIVE SUBSTANCES
JPRS-20421 N64-11355 02-16

SAFETY ANALYSIS OF OPERATION OF HIGH-RADIATION-LEVEL EXAMINATION LABORATORY
ORNL-3479 N64-11366 02-10

RADIATION EFFECTS ON SOLUTIONS OF STANNIC CHLORIDE IN TOLUENE
RTD-TDR-63-4133 N64-11749 03-07

IONIZING RADIATION EFFECTS ON COLLOIDS AND SEDIMENTATION OF SEWAGE
D63-341 N64-12131 03-07

IONIZING RADIATION EFFECT ON DEVELOPMENT OF LEUKEMIA IN MAN
JPRS-22520 N64-12145 03-16

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RTD-TDR-63-3051 N64-12235 03-09

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AD-423158 N64-12300 03-23

HIGH TEMPERATURE MATERIALS - IRRADIATION AND TESTS OF PHYSICAL PROPERTIES
GEMP-29A N64-12389 03-19

RADIATION EFFECT ON SPERM MUTATION, YEAST CELL RESTORATION, & LIVER REGENERATION, AND SHIELDING ACTION OF CYSTAMINE
JPRS-22083 N64-12793 04-16

IRRADIATION OF SINGLE CRYSTAL URANIUM OXIDE & EFFECTS ON CRYSTAL STRUCTURE
HW-73959 N64-13015 04-25

DESIGN, METALLURGY, RADIATION EFFECT, AND FUEL PROCESSING OF MOLTEN-SALT REACTOR
ORNL-3529 N64-13137 04-23

RADIATION EFFECT ON ELECTRODE BEHAVIOR IN NICKEL-CADMIUM BATTERY
NASA-CR-55217 N64-13187 04-06

CYSTEAMINE PROTECTIVE ACTION AGAINST RADIATION INJURY N64-13695 05-16

RADIATION FIELD EFFECT ON EXCITED STATES OF SINGLE AND DOUBLE ATOMS OF MERCURY
E-T-F-63-1 N64-13862 05-29

HIGH TEMPERATURE REACTOR MATERIAL STRESS RUPTURE CREEP TESTING, AND EFFECT OF RADIATION ON CREEP-RUPTURE PROPERTIES OF HIGH TEMPERATURE ALLOYS
GEMP-31A N64-14420 06-18

ELECTRONIC MEASUREMENT OF TRANSIENT EFFECTS OF ELECTRON RADIATION ON SEMICONDUCTORS
QPR-1 N64-14504 06-09

MECHANISM OF RADIATION-INDUCED GEL FORMATION IN MONOMER-POLYMER MIXTURES
RAI-329 N64-14670 06-07

EFFECT OF X-RAY FLASHES ON ELECTRICAL CONDUCTANCE OF SILICON - CONSTRUCTION AND TESTING OF AMPLIFIER AND ASSOCIATED SHIELDED CABLES
QPR-2 N64-14960 06-09

NUCLEAR ENERGY RESEARCH IN AREAS OF LIFE SCIENCES, ENVIRONMENTAL RADIATION, BASIC RESEARCH, THERMO-NUCLEAR RESEARCH, & REACTOR DEVELOPMENT N64-15778 07-01

RADIATION EFFECT ON NICKEL-CADMIUM BATTERY ELECTRODES
NASA-CR-55760 N64-16014 07-06

HIGH ENERGY ELECTRON RADIATION EFFECT ON SILICON SOLAR CELLS
NASA-CR-50098 N64-16066 07-06

EFFECTS OF NON-GRAY RADIATION ON WAVE PROPAGATION IN SIMPLE DISSOCIATING GAS
SSD-TDR-63-355 N64-16445 08-24

EFFECTS OF PULSED GAMMA RADIATION ON DYNAMIC ELECTRONIC COMPONENTS
GA-4062 N64-16646 08-26

GAMMA RADIATION EFFECTS ON POLYMERS USED AS POTTING AND INSULATING COMPOUNDS
NASA-TM-X-54615 N64-16701 08-19

PROTON IRRADIATION DAMAGE TO SILICON SOLAR CELLS
NASA-CR-55829 N64-16716 08-06

KINETIC REGULARITIES OF PRIMARY REACTIONS AND CHEMICAL PROTECTION IN RADIATION DAMAGE N64-16908 09-16

RADIATION EFFECT ON TIME, TEMPERATURE, AND STRESS PROPERTIES OF REFRACTORY METALS AND HIGH TEMPERATURE ALLOYS N64-16997 09-18

FISSION GAS DIFFUSION AND RADIATION DAMAGE IN UNFUELED CERAMIC MATERIALS N64-16999 09-23

IONOSPHERIC ELECTRON DENSITY AS EFFECT OF CORPUSCULAR RADIATION
NASA-RP-144 N64-17564 09-12

NUCLEAR RADIATION EFFECT ON MATERIALS AT CRYOGENIC TEMPERATURES
NASA-CR-56004 N64-17684 09-23

RADIATION DAMAGE IN SEMICONDUCTORS
AFCRL-63-578 N64-18126 10-25

RADIATION ENHANCED DIFFUSION IN SEMICONDUCTOR MATERIALS N64-18127 10-25

LOW TEMPERATURE IRRADIATION OF GERMANIUM AND MEASUREMENT OF STORED ENERGY N64-18128 10-25

ELECTRIC CHARGE DEFECT MOBILITY IN ELECTRIC FIELD OF SEMICONDUCTOR P-N JUNCTION N64-18129 10-25

INHIBITION AND ENHANCEMENT OF RADIATION EFFECTS ON BIOLOGICAL SYSTEMS WITH AMIDES OF ACRYLIC AND PROPIONIC ACIDS N64-18411 10-16

RADIATION TESTING MONOMETHYL HYDRAZINE PROPELLANT FOR RIFT PROJECT
NSP-64-10 N64-18470 10-26

INFLUENCE OF ULTRASONIC RADIATION ON PHYSICAL PROPERTIES OF METALS - ALUMINUM CYLINDER TEST SAMPLE
FTD-MT-63-161 N64-18687 11-17

GAMMA RADIATION TO DETERMINE SHIELDING EFFECTIVENESS OF SPACE VEHICLES AND USE OF RADIO ISOTOPES FOR FRACTURE STUDIES
TID-7689 N64-18797 11-23

GAMMA RADIATION TRANSMISSION TO DETERMINE SHIELDING EFFECTIVENESS OF SPACE VEHICLES N64-18798 11-23

IONIZING RADIATION EFFECT ON MICROFLORA IN MEATS AND FOOD - BOTANY
JPRS-24187 N64-18968 11-16

ELECTROMAGNETIC, THERMAL, AND SEMICONDUCTING CHARACTERISTICS OF POLYMERS - RADIATION EFFECTS
JPRS-24289 N64-18971 11-07

MEASUREMENT OF TRANSIENT RADIATION EFFECTS ON CAPACITORS, RESISTORS, CONNECTORS, AND COAXIAL CABLES N64-19034 11-23

MECHANICAL PROPERTIES OF REFRACTORY METALS AND ALLOYS - RADIATION EFFECTS
ORNL-3593 N64-19037 11-18

RADIATION EFFECT ON ELECTROMAGNETIC WAVE PROPAGATION IN AIR
R-173-1 N64-19188 11-15

HIGH ENERGY NEUTRON AND PROTON RADIATION EFFECTS ON LIFESPAN, PERIPHERAL BLOOD, AND RATE OF APPEARANCE OF TUMORS IN RATS
FTD-TT-63-1049/1&2&4 N64-19220 11-16

ANNOTATED BIBLIOGRAPHY OF RADIOISOTOPE & RADIATION EFFECTS ON LIFE PROCESSES
TID-3098/INDEX/ N64-19236 11-16

RADIATION EFFECT ON MECHANICAL PROPERTIES OF POLYMERS - BIBLIOGRAPHY
SC-R-64-124 N64-19241 11-19

PULSED NUCLEAR RADIATION EFFECTS ON FREQUENCY CONTROL DEVICES
G3988-Q3-3 N64-19269 11-23

RADIATION EFFECTS ON INERT GAS FILLED THERRIONIC DIODES FROM NUCLEAR REACTOR AND SELF-CONTAINED RADIATION SOURCE - RADIOACTIVE KRYPTON
APL-TDR-64-28 N64-19415 12-06

RADIATION-INDUCED REACTION OF THYMINE WITH ETHANOL IN DEAERATED AQUEOUS SOLUTIONS N64-19466 12-07

EFFECT OF NUCLEAR RADIATION ON SPACE VEHICLE MATERIALS - MATERIAL TESTING
NASA-TM-X-51615 N64-19578 12-18

EFFECTS OF COSMIC RAYS ON METEORITES - STUDY OF FOSSIL RECORD OF COSMIC RADIATION N64-19585 12-28

RADIATION CHEMISTRY - RESEARCH ON POLYMERS
AEC-TR-6231 N64-19885 12-23

RADIATION EFFECT ON GTO-915 LUBRICATING OIL FOR HIGH TEMPERATURE JET ENGINE APPLICATION
FGT-2767 N64-20037 13-17

EFFECTS OF RADIATION & HIGH TEMPERATURE ON CERAMIC BONDED FILM LUBRICANT MATERIALS
FTDM-3053 N64-20049 13-17

SUPERSONIC FLOW PAST WEDGE, HYDRODYNAMIC EQUATIONS WITH RADIATION, AND PROTON SYNCHROTRON THEORY
FTD-TT-62-958/1&2 N64-20363 13-01

HYDRODYNAMIC EQUATIONS INCORPORATING RADIATION EFFECTS N64-20365 13-11

SCINTILLATION SPECTROMETER RESPONSE TO GAMMA RADIATIONS OF NEUTRON DEFICIENT ISOTOPES
IDO-16969 N64-20504 13-23

VAN ALLEN TRAPPED RADIATION BELTS & EFFECT OF SPACE RADIATION ON SNAP REACTOR SYSTEMS - BIBLIOGRAPHY
NAA-SR-7849 N64-20529 13-12

SURFACE DAMAGE EFFECTS ON TRANSISTORS AND DIODES IN IONIZING RADIATION ENVIRONMENT
TG-510 N64-20611 13-12

RADIATION EFFECTS LABORATORY FACILITIES - LINEAR ACCELERATOR, FLASH X-RAY MACHINES, COBALT 60 RADIATION SOURCE, AND HIGH VACUUM EQUIPMENT N64-20714 13-10

RADIATION DAMAGE TO SEMICONDUCTOR DEVICES BY HIGH ENERGY ELECTRON AND PROTON RADIATION
NASA-CR-56138 N64-20726 13-25

RADIATION EFFECT ON LIQUID METAL CORROSION N64-20800 14-23

RADIATION INDUCED DISCOLORATION OF METAL SURFACES IN SPACECRAFT ENVIRONMENT
TR-63-414-1 N64-20888 14-23

REACTOR RADIATION EFFECTS ON PERFORMANCE CHARACTERISTICS OF ELECTRONIC COMPONENTS OF FLIGHT EQUIPMENT
SID-64-3 N64-20901 14-09

OBSERVATIONS BY TRANSMISSION ELECTRON MICROSCOPY ON DISLOCATIONS IN URANIUM AND DISLOCATIONS AND RADIATION DAMAGE IN PLATINUM
EUR-243.E N64-21047 14-18

VISIBLE RADIATION DAMAGE IN SODIUM CHLORIDE CRYSTALS BY ALPHA PARTICLE BOMBARDMENT
NASA-TN-D-2329 N64-21428 14-25

NUCLEAR RADIATION ENVIRONMENT EFFECTS ON TELEMETRY MODELS
RTD-TDR-63-4287, VOL. 1 N64-21536 15-08

REACTOR RADIATION EFFECTS ON CERAMIC-BONDED SOLID-FILM LUBRICANT
NHRF-63-6T N64-21563 15-17

REACTOR FUEL ELEMENT PROCESSING AND MATERIALS TESTING - CERAMIC MATERIALS
HW-76304 N64-21739 15-17

RADIATION-INDUCED REACTIONS IN SWOLLEN POLYMERS - GAMMA IRRADIATION
SRI-A-120 N64-21780 15-07

ANALYTICAL TECHNIQUES IN ANALYZING RADIATION EFFECTS TO FLIGHT CONTROL SYSTEMS
IBM-63-521-21 N64-22308 15-09

PULSED NUCLEAR RADIATION INDUCED TRANSIENTS IN ELECTRONICS PARTS AND MATERIALS
USAELRDL-TR-2299 N64-22899 16-09

RADIATION DAMAGE TO SEMICONDUCTORS BY HIGH ENERGY ELECTRON AND PROTON RADIATION
NASA-CR-62 N64-23236 16-09

THERMAL RADIATION EFFECTS ON ACOUSTIC RESPONSE OF SOLID PROPELLANTS
TG-335-18 N64-23280 16-26

IONIZING RADIATION EFFECTS ON PERFORMANCE CAPABILITIES OF ASTRONAUTS - ANNOTATED BIBLIOGRAPHY
SRB-63-13 N64-23365 16-14

RADIATION EFFECTS ON SILICON SOLAR CELLS
NASA-CR-56563 N64-23529 16-06

BIOLOGICAL EFFECT OF COSMIC RADIATION AND RADIATION PROTECTION MEASURES N64-23744 16-14

SENSITIVITY AND REACTIVITY OF VESTIBULAR ANALYZER UNDER INFLUENCE OF IONIZING RADIATION N64-23769 16-14

RADIATION EFFECTS & RADIOACTIVE MATERIALS - FORECASTING STUDIES IN HYDROMETEOROLOGY
JPRS-24860 N64-24799 17-21

BENEFICIAL USES OF RADIATION EFFECTS - POWER, ILLUMINATION, RADIOGRAPHY, TELETHERAPY, AND TRACER TECHNOLOGY
REIC MEMO-25 N64-24967 17-18

X-RAY IRRADIATION EFFECTS ON WORK CAPACITY AND LIFESPAN OF DOGS
UCD-472-109 N64-25111 17-16

DOSIMETRY FOR RADIATION DAMAGE STUDIES
ANL-6826 N64-25205 17-16

DISCONTINUITIES OF LONG TRANSMISSION LINES IN ANTENNA RADIATION PATTERN
RADC-TDR-64-121 N64-25233 17-08

GAMMA RADIATION EFFECT ON THERMAL STRESS RESISTANCE AND REPRODUCTIVE SYSTEM IN RATS AND MAMMALS
AD-600960 N64-25308 17-16

EFFECTS OF CONTINUOUS AND FRACTIONATED LOW-INTENSITY GAMMA RADIATION ON ALBINO RAT ABILITY TO WITHSTAND ENVIRONMENTAL THERMAL STRESSES N64-25311 17-16

DAMAGES OF IONIZING RADIATION TO ORGANS OF MAMMALS N64-25313 17-16

X-RAY IRRADIATION EFFECT ON DEVELOPMENT OF ENZYME ACTIVITY IN LIVER OF YOUNG RATS
SAM-TDR-64-29 N64-25340 17-16

THEORETICAL STUDIES OF PROTON INDUCED RADIATION DAMAGE IN GERMANIUM
NASA-CR-56830 N64-25567 17-25

RADIATION EFFECTS IN SEMICONDUCTORS
NASA-TN-D-2364 N64-25871 18-25

NUCLEAR RADIATION EFFECTS ON CORROSION OF REACTOR MATERIALS - MICROGRAVIMETRIC METHOD
EURAEC-874 N64-26045 18-23

RADIATION HARDENED READOUT CIRCUITS
FR-6410-105 N64-26062 18-09

TEMPERATURE DISTRIBUTION ON CONDUCTING CYLINDRICAL SHELLS INCLUDING EFFECTS OF THERMAL RADIATION
NASA-RP-264 N64-26080 18-13

CHEMICAL AND RADIATION EFFECT IN HYPERSONIC AERODYNAMICS N64-26148 18-02

TRANSIENT RADIATION EFFECTS ON HALL DEVICES
AFWL-TDR-64-38 N64-26221 18-23

RADIATION EFFECTS ON LUBRICATING OIL UNDER STATIC AND DYNAMIC CONDITIONS
FGT-2622 N64-26279 18-17

GAS DYNAMICAL EFFECTS OF RADIATION & TRANSITION TO ESTABLISHMENT OF IONIZED GAS REGION - RADIATIVE IONIZATION FRONTS IN HYDROGEN N64-26338 18-11

RADIATION EFFECT ON ELECTROMAGNETIC SIGNAL PROPAGATION IN AIR
R-173-2 N64-26526 18-23

FABRICATION, CREEP-RUPTURE TESTS, AND RADIATION EFFECTS ON REFRACTORY METALS AND ALLOYS FOR HIGH TEMPERATURE REACTOR COMPONENTS
GEMP-37A N64-26534 18-18

HIGH TEMPERATURE RADIATION DAMAGE TO GRAPHITE
HW-80752 N64-26614 18-18

CORRELATION OF PROTON, NEUTRON, ELECTRON, AND PHOTON RADIATION DAMAGE IN TRANSISTORS AND DIODES
D2-90407 N64-26654 18-09

RADIATION DAMAGE IN SEMICONDUCTOR DEVICES
BSR-847 N64-26655 18-25

RADIATION EFFECT ON TRANSISTORS
BSR-890 N64-26718 18-23

IONIZING RADIATION EFFECT ON BIOCHEMICAL PROCESSES AND SUBSTANCES IN LIVING CELLS AND TISSUES
FTD-TT-63-661/1&2 N64-26725 18-16

SURFACE EFFECTS OF RADIATION ON TRANSISTORS
R64MCD500 N64-26803 18-09

EFFECTS OF RADIATION AND HOT ATOMS ON SIMPLE COMPOUNDS - BIBLIOGRAPHY
SB-63-37 N64-26820 18-07

CYCLE-LIFE TESTS AND RADIATION EFFECTS ON ALKALINE BATTERIES - SILVER-ZINC, SILVER-CADMIUM, AND NICKEL-CADMIUM CELLS
APL-TDR-64-65 N64-26959 18-06

ANTIRADIATION EFFECT OF INERT GASES AND LOW-MOLECULAR NARCOTICS ON BEAN SPROUTS
JPRS-25703 N64-27055 19-16

SPACE RADIATION EFFECT ON NIMBUS B SATELLITES IN VARIOUS ORBITS
R64-MCD-501 N64-27213 19-28

GAMMA RADIATION EFFECTS ON POLYETHYLENE TEREPHTHALATE
NASA-TT-F-9008 N64-27229 19-07

STUDIES IN BIOCHEMISTRY, NUCLEAR MEDICINE, RADIOBIOLOGY, BIOPHYSICS, AND ENVIRONMENTAL RADIATION
UCLA-12-529 N64-27343 19-16

SEMICONDUCTOR RESEARCH - ELECTRICAL AND OPTICAL PROPERTIES, IRRADIATION EFFECTS, & LOW TEMPERATURE STUDIES
AD-439233 N64-27344 19-25

MORTALITY OF RAT FETUS AFTER IRRADIATION OF PARENTAL GAMETES
NASA TT-F-9036 N64-27369 19-16

EFFECTS OF VACUUM & SPACE RADIATION ON ELASTOMERS AND PLASTICS FOR COATINGS, SEALANTS, INSULATION, & LUBRICATION
RSIC-150, VOL.1 N64-27479 19-19

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - RADIATION AT CRYOGENIC TEMPERATURES
RSIC-150, VOL. I, APPEND. I N64-27488 19-19

RADIOBIOLOGICAL RESEARCH OF COSMIC RADIATION EFFECTS DURING SPACE FLIGHTS N64-27631 19-16

RADIATION EFFECT ON GUIDED MISSILE ELECTRONIC EQUIPMENT
FR-64-17-41 N64-27697 19-28

POINT DEFECT CONFIGURATIONS IN IRRADIATED IRON-CARBON ALLOYS
A64-2 N64-27698 19-18

NUCLEAR RADIATION EFFECTS ON CRYSTAL FREQUENCY CONTROL DEVICES
REPT.-6 N64-27855 19-23

NUCLEAR RADIATION EFFECTS ON MATERIALS AT CRYOGENIC TEMPERATURES
NASA-CR-56673 N64-27885 20-18

ENGINEERING DESIGN OF SPACE RADIATION EFFECTS LABORATORY N64-28164 20-10

METAL WHISKERS - INDUCED GROWTH, GROWTH MECHANISM, ENERGY SOURCES FOR GROWTH, MAGNETIC PROPERTIES, AND RADIATION EFFECTS N64-28218 20-25

INTERNAL CONVERSION CERAMIC FUEL ELEMENTS, FISSION GAS DIFFUSION IN CERAMICS, FISSION PRODUCTS IN REFRACTORY-METAL FUEL SYSTEMS, AND RADIATION IN BERYLLIUM OXIDE
GEMP-38 A N64-28251 20-18

EFFECTS OF COMPOSITION AND IRRADIATION ON GLASS TRANSITION TEMPERATURE OF METHYL METHACRYLATE-STYRENE COPOLYMERS N64-28290 20-19

NUCLEAR PROPULSION RADIATION EFFECT ON RELIABILITY CONTROL AND MAINTAINABILITY CONCEPTS IN REACTOR IN-FLIGHT TEST /RIFT/ PROJECT N64-28293 20-17

CORROSION AND RESISTANCE OF, AND RADIATION EFFECTS ON STEELS AND OTHER CONSTRUCTION METALS
JPRS-26020 N64-28445 20-18

EFFECTS OF ALKALI TREATMENT AND GAMMA RADIATION ON PYROLYSIS OF POLYTRIFLUOROETHYLENE N64-28601 20-07

BIBLIOGRAPHY - RADIATION EFFECTS ON NOBLE METALS
UCRL-7810 N64-28739 20-25

RADIATION EFFECTS ON MAMMALIAN EYE - SUBJECT INDEX
TID-3912 N64-28788 20-16

COMPUTER PROGRAM FOR CLASSICAL MANY-BODY PROBLEMS IN RADIATION DAMAGE
BNL-7979 N64-28808 20-25

RADIATION EFFECTS ON DYNAMIC PROPERTIES OF HIGH POLYMERS N64-28828 20-25

HYPOXIA, HYPOTHERMIA, AND RADIATION RESPONSE OF POCKET MICE
NASA-CR-58526 N64-28838 20-16

REACTION OF SQUALENE /LIQUID HEXANER/ TO GAMMA RADIATION
USNRDL-TR-671 N64-28871 20-19

SYSTEM FOR DETECTION OF MICROMETEOROID PENETRATION DAMAGE AND INFRARED OR VISIBLE RADIATION DAMAGE TO SPACE VEHICLE
NASA-CR-58528 N64-28883 20-33

IMPURITY EFFECT ON RADIATION DAMAGE OF SILICON SOLAR CELLS - TENDENCY OF BORON ATOMS IN SILICON TO CREATE RECOMBINATION CENTERS N64-29158 21-06

ELECTRICAL CHARACTERISTICS OF IRRADIATED SILICON SOLAR CELLS AS FUNCTION OF TEMPERATURE
NASA-TM-X-55049 N64-29182 21-06

RADIATION & TEMPERATURE RESISTANCE OF O-RING COMPOUNDS
NARF-63-15T N64-29281 21-19

GAMMA RADIATION EFFECTS ON NICKEL-CADMIUM BATTERIES - CAPACITY LOSS OF CADMIUM ELECTRODE AND RADIOLYSIS OF AQUEOUS POTASSIUM HYDROXIDE ELECTROLYTE
NASA-CR-58570 N64-29691 21-06

NUCLEAR RADIATION EFFECTS ON CERAMIC-BONDED, RESIN-BONDED, AND METAL-MATRIX-BONDED SOLID FILM LUBRICANTS
NARF-63-11T N64-29801 21-17

NUCLEAR RADIATION EFFECTS ON ELECTRIC, MECHANICAL, AND OPTICAL PROPERTIES OF MERLON POLYCARBONATE
NARF-63-19T N64-29804 21-19

REACTOR RADIATION EFFECTS ON BENZENE COMPOUND USED AS LUBRICANT IN HIGH-SPEED, HIGH-TEMPERATURE BALL-BEARING RIG
NARF-63-17T N64-29819 21-17

EFFECT OF GAMMA AND X-RADIATION ON MULTIPLIER PHOTOTUBES
USNRDL-TR-763 N64-29875 21-23

RADIATION EFFECTS ON ELECTRONICS, POLYMERIC MATERIALS, AND LUBRICANTS
REIC-34 N64-29878 21-25

SPLEEN, LYMPH NODES, AND LOOSE CONNECTING TISSUE REACTIONS TO ANTIGENIC STIMULI IN IRRADIATED ANIMALS
N64-30244 22-16

LEUKOSES AND TUMORGENESIS BY IONIZING RADIATION, AND PATHOGENESIS OF RADIATION TUMORS
JPRS-26532 N64-30613 22-16

RADIATION EFFECT ON ZIRCALOY-2 PRESSURE TUBES AND FUEL CLADDING IN REACTORS
AECL-2021 N64-30631 22-18

EFFECT OF IMPURITIES ON RADIATION DAMAGE IN SILICON SOLAR CELLS
NASA-RP-314 N64-30659 22-06

PULSED NUCLEAR RADIATION EFFECTS ON ELECTRONIC CIRCUITS AND DEVICES FOR CIRCUIT RESPONSE PREDICTIONS
WL-TDR-64-60, VOL. II N64-30680 22-09

NEUTRON IRRADIATION EFFECTS ON MECHANICAL PROPERTIES OF HYDRIDED ZIRCONIUM ALLOYS
AECL-1986 N64-30906 22-18

METALLURGY OF REACTOR METALS - RADIATION EFFECTS ON STRUCTURAL AND FISSIONABLE MATERIALS
HW-82651 N64-31027 22-18

CHEMISTRY AND ATOMIC ENERGY - NUCLEAR REACTOR FUEL AND WASTE PROCESSING, TRANSURANIUM ELEMENTS, FISSION PRODUCT EXTRACTION, RADIATION EFFECTS, AND DECONTAMINATION
ORNL-3627 N64-31061 22-07

GAMMA RADIATION EFFECTS ON CYCLIC ALKANES AND ALKENES
USNRDL-TR-691 N64-31293 22-07

BIBLIOGRAPHY ON EFFECTS OF VAN ALLEN RADIATION BELTS ON ELECTRONIC MATERIALS
PDC-SEARCH-63-003 N64-32057 23-28

RADIATION EFFECTS ON ELECTROMAGNETIC SIGNAL PROPAGATION IN AIR
R-146-8 N64-32292 23-24

GAMMA IRRADIATION EFFECTS ON RUBY LASER CHARACTERISTICS - MATHEMATICAL MODEL
NSF-7 N64-32322 23-25

RADIATION ACTIVATION OF ORTHO-PARA HYDROGEN CATALYSTS
QPR-1 N64-32357 23-07

IONIZING RADIATION EFFECTS ON LIQUID PYRIDINE - PRODUCTION OF POLYPRIDINES AND HYDROGEN AND ACETYLENE GASES
USAEL-TR-2485 N64-32442 23-07

RADIATION EFFECTS - RELATION OF ARTERIAL PRESSURE & REGULATING MECHANISMS AND LIPOLYTIC ENZYME INDUCTION BY CONNECTIVE TISSUE CELLS
FTD-TT-64-329/1&2&4 N64-32544 23-16

BARKHAUSEN EFFECT IN IRRADIATED PURE IRON AND NICKEL
AD-433849 N64-32571 23-25

THIN FILM SOLAR CELLS AND SOLAR CELL TESTING - PHOTOVOLTAIC CELLS, RADIATION DAMAGE TO CADMIUM SULFIDE SOLAR CELLS, AND AIRPLANE TESTING OF SOLAR CELLS
NASA-CR-59014 N64-32726 24-06

RADIATION DAMAGE TO CADMIUM SULFIDE, THIN FILM SOLAR CELLS
N64-32733 24-06

ELECTRON RADIATION EFFECT ON PHYSICAL PROPERTIES OF ECHO II LAMINATE
NASA-TN-D-2207 N64-32836 24-28

FIELD ION MICROSCOPY OF HEAT TREATED TUNGSTEN ALLOYS AND OF POINT DEFECTS IN IRRADIATED PLATINUM WIRE
NASA-CR-58771 N64-32889 24-18

COLLISIONS IN GASES, MAGNETIC SUSCEPTIBILITY OF BERYLLIUM, REACTIONS OF ALLYLIC ALCOHOLS, ACTIVITY COEFFICIENTS, BIOLOGICAL EFFECTS OF RADIATION, AND ECOLOGY OF DRAINAGE AREA
NASA-CR-58839 N64-33048 24-07

BIBLIOGRAPHY ON ATOMIC RADIATION EFFECTS
TID-3909 /SUPPL. 2/ N64-33138 24-16

GRAVITY AND RADIATION EFFECTS ON CELL GROWTH AND ULTRASTRUCTURE
N64-33453 24-16

HIGH POWER MICROWAVE AMPLIFIERS FOR OPERATION IN SPACE ENVIRONMENT - EFFECTS OF VACUUM, RADIATION, TEMPERATURE, AND MICROMETEOROIDS
RADC-TDR-64-201 N64-33545 24-09

FISSION PRODUCT GAMMA RADIATION AND TEMPERATURE EFFECTS ON TRANSISTOR CIRCUITS
BSC-39655 N64-33735 24-09

RADIATION DAMAGE AND EFFECTS IN CRYSTALS AND ORGANIC MATERIAL
NASA-CR-52949 N64-33783 24-23

RADIATION DAMAGE AND PHYSICAL DIMENSION CHANGE IN CADMIUM SULFIDE CRYSTAL
GNE-64 N64-33818 24-25

RADIATION EFFECTS ON NUCLEIC ACIDS
JPRS-27239 N64-33875 24-16

VACUUM & NUCLEAR RADIATION EFFECTS ON RESISTANCE OF ENGINEERING MATERIALS FOR SPACE VEHICLES & REACTOR ACCESSORY HARDWARE
NASA-RP-349 N64-33987 24-17

RADIATION EMISSION

RADIATION EMISSION IN NONEQUILIBRIUM SHOCK LAYERS OF BLUNT REENTRY BODIES IN HYPERSONIC FLOW
CARDE-TR-496/64 N64-20883 14-02

RADIATION EMISSION FROM LOG PERIODIC AND UNIFORM PERIODIC ANTENNAS
QPR-5 N64-21812 15-09

MULTIPLE CELL BLACK BODY RADIATION SOURCE WITH LARGE AREA FOR RADIATION EMISSION
N64-31867 23-23

RADIATION EXPOSURE

RADIATION EXPOSURE CONTROL METHODS AND RADIOACTIVE MATERIAL DOSAGES
JPRS-18522 N64-10575 01-16

ELECTRON AND PROTON DISTRIBUTION MAP FROM TELSTAR SATELLITE RADIATION EXPERIMENT DATA
N64-10895 02-20

SPACE BIOLOGY - EFFECT OF RADIATION EXPOSURE AND WEIGHTLESSNESS ON ORGANISMS, AND SPACE FOOD STUDY
N64-11667 03-16

RADIOPHYSICS RESEARCH - RADIATION EFFECT ON TISSUE CULTURE CELLS
NYO-10451 N64-12123 03-14

INFLUENCE OF RADIATION EXPOSURES ON PLANT EMPLOYEES
ANL-6688 N64-12132 03-14

RADIATION AND CHEMICAL GENETIC EFFECTS
JPRS-22581 N64-12701 04-14

HUMAN SKIN REACTION TO ACUTE LOCAL EXPOSURE TO RADIATION
N64-12784 04-14

RADIATION EFFECT ON SPERM MUTATION, YEAST CELL RESTORATION, & LIVER REGENERATION, AND SHIELDING ACTION OF CYSTAMINE
JPRS-22083 N64-12793 04-14

CHRONIC IRRADIATION EFFECTS ON LONGEVITY AND PERIPHERAL BLOOD ELEMENTS OF MONKEYS

SAN-TDR-63-55 N64-13078 04-16

CYANIDE AND NITRILE COMPOUNDS FOR THERAPY OF RADIATION EXPOSURE IN MICE
N64-13505 05-16

CHROMOSOMAL ABERRATIONS IN CHIRONOMUS TENTANS LARVAE EXPOSED TO CHRONIC LOW LEVEL RADIATION
ORNL-3531 N64-14442 06-16

ANTHRAX VACCINE INJECTION IN ANIMALS TO REDUCE MORTALITY RATE FROM RADIATION SICKNESS
N64-15680 07-16

HIGH ENERGY ELECTRON RADIATION EFFECT ON SILICON SOLAR CELLS
NASA-CR-50098 N64-16066 07-06

CLINICAL MEDICINE STUDIES OF PHYSIOLOGICAL EFFECTS OF RADIATION EXPOSURE
ORO-614 N64-16551 08-16

EFFECT OF INHALED RADON ON SURVIVAL, BODY WEIGHT, AND HEMOGRAM OF MOUSE AFTER SEVERAL EXPOSURES
UR-624 N64-18409 10-16

RESTORATIVE PROCESSES IN HEMATOPOIETIC ORGANS AFTER RADIATION EXPOSURE
JPRS-26921 N64-31556 23-16

GAMMA RADIATION EXPOSURES RECEIVED BY PERSONNEL AT NUCLEAR RESEARCH FACILITY
AECL-2050 N64-32308 23-16

RADIATION EXPOSURE ON FIELD EFFECT TRANSITORS USED IN SPACE VEHICLES
NASA-CR-59200 N64-33213 24-09

RADIATION FIELD

REACTION BETWEEN ORGANIC BROMIDES AND POWDERED TIN IN RADIATION FIELD
BMI-1654 N64-11410 02-07

MIXED NEUTRON-GAMMA RADIATION FIELD EFFECTS ON ELECTRICAL PROPERTIES OF SILICONE DIELECTRIC FLUIDS
NARF-63-71 N64-13316 04-19

RADIATION FIELD DUE TO ELECTRIC CURRENT DIPOLE IN INFINITE, HOMOGENEOUS, ANISOTROPIC PLASMA
PIBMRI-1070-62 N64-14117 05-24

VERY LOW FREQUENCY APPROXIMATION OF RADIATION FIELD OF HORIZONTAL MAGNETIC DIPOLE
AFCRL-63-516 N64-17844 10-09

TRAVELING WAVE PROPAGATION GUIDED ALONG RADIATION FIELD OF OPEN AND CLOSED RADIATING STRUCTURES
PIBMRI-1008-62 N64-18880 11-23

NEUTRON FLUX MEASUREMENTS IN RADIATION FIELDS USING FOIL DETECTORS
NARF-62-4T N64-19394 12-23

STATISTICAL ANALYSIS OF BLACK BODY RADIATION FIELD
P-2844 N64-20113 13-23

STRUCTURAL CHARACTERISTICS OF RADIATION FIELD OF EARTH
N64-21631 15-12

RADIATION FIELD OF ARBITRARY ANTENNA IN MAGNETOPLASMA
NASA-CR-56291 N64-22477 15-08

STRUCTRURAL CHARACTERISTICS OF RADIATION FIELD OF PLANET EARTH
NASA-TT-F-8564 N64-23119 16-28

RADIATION FIELD OF CHARGED PARTICLE IN MOVING MEDIUM
N64-23805 16-28

CALCULATION OF LIFETIME OF ICE IN NUCLEI OF COMETS IN SOLAR RADIATION FIELD
N64-25065 17-05

PLANE WAVE EXPANSION THEOREM FOR CYLINDRICALLY RADIATED FIELDS
EM-199 N64-25757 17-23

FALLOUT RADIATION ENERGY DISTRIBUTION AS FUNCTION OF ALTITUDE
FZK-187 N64-27864 19-23

FLUSH SURFACE-MOUNTED ANTENNAS WITH SPECIFIED RADIATION FIELDS FOR SPACE VEHICLES
NASA-CR-58365 N64-28737 20-08

STATISTICAL METHODS FOR STUDY OF RANDOM RADIATION FIELDS AND ASSOCIATED CLOUD FORMATIONS
N64-29082 21-21

RADIATION FIELDS ASSOCIATED WITH ANTENNAS FOR SHORT WAVE RADIO TRANSMISSION IN LAND-SEA AREAS
S75-R37 N64-32109 23-08

LOCAL AND NONLOCAL THERMODYNAMIC EQUILIBRIUM OF GAS FOR COLLISIONALLY AND RADIATIVELY CONTROLLED TRANSITION PROCESSES
R64SD41 N64-32372 23-11

INTERACTION OF VERY INTENSE RADIATION FIELDS WITH ATOMIC SYSTEMS
JPL-TR-32-599 N64-32825 24-25

LOOP ANTENNA RADIATION FIELDS N64-33580 24-08

RADIATION HAZARD

COSMIC RADIATION HAZARD FOR MANNED SPACE FLIGHT - PHARMACOLOGICAL PROTECTION, PHYSICAL & BIOLOGICAL DOSIMETRY
N64-10514 01-16

RADIATION HAZARD IN X-RAY CLINICS, CAPACITOR DOSIMETER FOR X-RAY AND GAMMA RADIATION, AND ELECTROKYMOGRAPHS
JPRS-17533 N64-10561 01-16

RADIATION MODELS FOR SPACE ENVIRONMENTAL HAZARD
N64-10614 01-28

ULTRAPURE MATERIALS, RADIATION EFFECTS, REACTORS, RADIOCHEMISTRY, RADIATION HAZARD, AND PARTICLE ACCELERATOR - COMPILATION OF PAPERS
JPRS-20730 N64-10844 02-01

PROTECTION AND INDUSTRIAL SAFETY FOR WORKERS WITH X-RAY MACHINES - RADIATION HAZARD
N64-12750 04-16

RADIATION HAZARD TO PERSONNEL DUE TO TRITIUM DIFFUSION IN GLOVE BOX OPERATIONS
LMS-2962 N64-13165 04-16

HAZARDS OF EXPOSURE TO PROTON RADIATION DURING SPACE FLIGHT, RELATIVE BIOLOGICAL EFFECTIVENESS AND LINEAR ENERGY TRANSFER
NASA-CR-55189 N64-13186 04-16

SATELLITE FOR EVALUATION OF SOLAR FLARE HAZARDS FOR NEAR-EARTH MANNED SPACE MISSIONS - FARO SATELLITE
RTD-TDR-63-3010 N64-13780 05-28

COSMIC RAY HAZARDS IN SOLAR SYSTEM
AIAA PAPER-64-66 N64-14065 05-28

AEROSPACE NUCLEAR RADIATION SAFETY
SC-DC-3553 N64-14551 06-01

NASA AEROSPACE NUCLEAR RADIATION SAFETY PHILOSOPHY
N64-14555 06-30

AEROSPACE NUCLEAR RADIATION SAFETY PROGRAMS AND PHILOSOPHY
N64-14556 06-06

AEROSPACE NUCLEAR RADIATION SAFETY PROGRAM AND PHILOSOPHY
N64-14557 06-01

SNAP REACTOR TRANSIENT TESTS FOR NUCLEAR RADIATION SAFETY
N64-14559 06-06

NUCLEAR RADIATION SAFETY OF ISOTOPIC SNAP GENERATORS
N64-14561 06-06

NUCLEAR RADIATION SAFETY OF ADVANCED NUCLEAR SPACE POWERPLANTS - NONBOILING, LITHIUM-COOLED REACTOR
N64-14562 06-06

NUCLEAR RADIATION SAFETY OF RIFT VEHICLE LAUNCH & FLIGHT OPERATIONS
N64-14563 06-30

KIWI B-4 & ROVER-TYPE REACTORS - NUCLEAR SAFETY PROBLEMS & TEST PROGRAMS N64-14564 06-27

ENVIRONMENTAL NUCLEAR RADIATION ASPECTS OF ROCKET FLIGHT OPERATIONS N64-14571 06-30

AEROSPACE NUCLEAR RADIATION SAFETY REENTRY FLIGHT TESTS N64-14575 06-30

NUCLEAR WEAPON RADIATION SAFETY PROGRAM N64-14579 06-01

RADIOACTIVE ISOTOPE SEPARATION, HALF-LIFE, WASTES, AND HAZARDS, AND ANALYSES BY CALORIMETRY, MASS SPECTROMETRY, AND HEAVY METAL CHEMISTRY
NLM-1151 N64-14756 06-23

RADIOBIOLOGY, BIOCHEMISTRY, PHARMACOLOGY, TOXICOLOGY, & RADIATION HAZARDS
UCLA-520 N64-15341 07-16

HAZARDS ASSOCIATED WITH VAN ALLEN PROTONS AND SOLAR FLARES
AD-428574 N64-15420 07-28

RADIATION HAZARD FROM SOLAR PARTICLE EVENTS
D2-90469 N64-15719 07-28

PROTECTION AGAINST RADIATION HAZARDS IN WORKING WITH POLONIUM
JPRS-23499 N64-15992 07-16

RADIOFREQUENCY FILTER TO PROTECT ORDNANCE AGAINST HAZARD OF ELECTROMAGNETIC RADIATION INDUCED FIRING
NAVWEPS-7805, REV. 1 N64-16468 08-09

QUANTITATIVE ANALYSIS OF TRACE CONTAMINANTS TO PREVENT RADIATION HAZARDS
NASA-TM-X-54617 N64-16702 08-07

PURIFICATION AND IDENTIFICATION OF FACTOR FROM CALF SPLEEN WHICH PREVENTS RADIATION INJURIES
AD-432125 N64-16831 08-16

MONTE CARLO CODE FOR EVALUATION OF SPACE RADIATION PENETRATION HAZARDS
D2-90414 N64-19482 12-23

SURVIVAL RATES OF PERSONS IN RADIUM INDUSTRY
NYO-2762 N64-20485 13-16

RADIATION HAZARD CONTROL - DOSIMETRY, SHIELDING, DETECTION, AND PROTECTION
UCRL-7637 N64-20536 13-15

PROTON FLUXES ALONG LOW ACCELERATION TRAJECTORIES THROUGH VAN ALLEN BELT - RADIATION HAZARD FOR MANNED INTERPLANETARY SPACE FLIGHTS
NASA-RP-193 N64-21281 14-28

SAFETY MEASURES AGAINST RADIATION HAZARD DURING VOSTOK III AND IV SPACE FLIGHTS
NASA-TT-F-8823 N64-22936 16-14

ASTRONAUT BEHAVIOR ABOARD SATELLITE - REACTION TO WEIGHTLESSNESS, ACCELERATION, AND RADIATION HAZARD N64-23638 16-16

X-RAY IRRADIATION EFFECT ON DEVELOPMENT OF ENZYME ACTIVITY IN LIVER OF YOUNG RATS
SAM-TDR-64-29 N64-25340 17-16

SAFETY MANUAL FOR PERSONNEL HANDLING RADIOACTIVE MATERIALS
AD-438147 N64-27263 19-16

MEDICAL PROCEDURES AND PRECAUTIONS IN THE EVENT OF RADIATION ACCIDENTS
JPRS-26021 N64-28439 20-16

COMPUTER PROGRAM FOR EVALUATING SPACE RADIATION HAZARDS FROM ENERGETIC PROTONS AND ELECTRONS IN VAN ALLEN BELT
NASA-CR-58293 N64-29364 21-20

COMPUTER EVALUATION OF SPACE RADIATION HAZARDS AND REQUIREMENT FOR ADDITIONAL RADIATION SHIELDING IN APOLLO SPACECRAFT
NASA-CR-58294 N64-29365 21-20

CALCULATION OF ELECTRON-PRODUCED BREMSSTRAHLUNG RADIATION DOSE THROUGH SEVERAL SLABS OF SHIELD MATERIAL USING IBM 7090 FORTRAN COMPUTER PROGRAM
NASA-CR-58275 N64-29366 21-23

MONTE CARLO PROGRAM FOR EVALUATING RADIATION HAZARDS OF ELECTRONS IN SPACE
NASA-CR-58296 N64-29367 21-20

COMPUTER PROGRAM FOR EVALUATING SPACE RADIATION HAZARDS - DOSES FROM PROTONS AND THEIR SECONDARY RADIATIONS
NASA-CR-58299 N64-29370 21-20

NUCLEAR SAFETY CONTROL PROGRAMS
NASA-CR-52946 N64-29783 21-27

DESIGN AND HAZARDS OF NUCLEAR RESEARCH REACTOR
LFEN.1 /BETA/ N64-30488 22-18

PROBLEMS IN AEROSPACE MEDICINE - WEIGHTLESSNESS, RADIATION, METEORITE IMPACT, ARTIFICIAL ATMOSPHERE, DARKNESS, SILENCE, AND LOW TEMPERATURE
FTD-TT-64-203/1 N64-31073 22-16

RADIATION SAMPLING OF ALPHA, BETA, AND GAMMA PARTICLES IN AIR, WATER, AND MELTED SNOW TO DETERMINE RADIATION HAZARD
NDL-TR-63 N64-32872 24-21

DOSIMETRIC DATA EVALUATION ON SOLID ANGLE BREAKDOWN OF SHIELD THICKNESS FOR APOLLO VEHICLE - RADIATION HAZARD IN SPACE FLIGHT
NASA-CR-59266 N64-33284 24-16

RADIATION HAZARDS IN SYNCHROCYCLOTRON BEAMS AND NEAR BEAM ZONES
NASA-TT-F-9136 N64-33402 24-18

WEATHER AND SURFACE RADIATION FORECASTING STATION - PROJECT SHOAL
VUF-1008 N64-33404 24-21

SATELLITE SYSTEM TO EVALUATE SOLAR FLARE AND RADIATION BELT HAZARD TO NEAR-EARTH MANNED SPACE MISSIONS
AFWL-TDR-64-67 N64-33552 24-32

RADIATION HAZARDS CONTROL - SHIELDING, NEUTRON AND GAMMA RADIATION SURVEY INSTRUMENTS, AND DOSIMETRY METHODS
UCRL-12004 N64-33852 24-10

RADIATION INTENSITY

AIR, FALLOUT, AND SURFACE WATER RADIOACTIVITY MEASUREMENTS AT MANY POSTS IN EUROPE FOR EURATOM
EUR-461.D,F,I,N N64-12137 03-23

FORMULA FOR SOLAR RADIATION INTENSITY AND NEW CHARACTERISTIC OF TRANSPARENCY OF AIR
FTD-TT-63-178/1&2 N64-19211 11-12

MAGNETIC TAPE DATA STORAGE SYSTEM FOR ACCURATE OPERATION IN HIGH INTENSITY RADIATION
RTD-TDR-63-3104 N64-21118 14-08

MEASUREMENT OF RADIATION INTENSITIES IN VERTICAL CONCRETE LINED HOLES & ADJOINING TUNNEL
ORNL-3513 N64-21510 15-23

SEASONAL AND ANNUAL VARIATIONS IN INTENSITY IN NIGHT AIRGLOW N64-21877 15-12

INCREASE IN COSMIC RAY INTENSITY IN HARD COMPONENT DURING SMALL CHROMOSPHERIC FLARES ON SUN
NASA-TT-F-9005 N64-23054 16-20

COSMIC RAY INTENSITY VARIATION DURING 1963
TN-3 N64-23214 16-20

RADIATION INTENSITY MEASUREMENTS BY SATELLITES AT ALTITUDES OF 200- TO 400-KM N64-23864 16-20

LASER BEAM TO DETERMINE INCIDENT RADIATION OF TARGETS
QPR-3 N64-25515 17-25

COSMIC RAY INTENSITY FLUCTUATIONS IN STRATOSPHERE CAUSED BY SOLAR ACTIVITY

NASA-TT-F-9027 N64-28826 20-28

ABSOLUTE SOLAR COSMIC RAY INTENSITY RELATION WITH RIOMETER ABSORPTION BY EXPLORER VII SATELLITE
SUI-64-29 N64-30973 22-28

MEASUREMENT DEVICES FOR HIGH INTENSITY OPTICAL RADIATION FROM LASERS
EOS-3490-FINAL N64-31165 22-15

GEOGRAPHICAL DISTRIBUTION OF RADIATION INTENSITY IN BRAZILIAN MAGNETIC ANOMALY AREA FROM COSMOS SATELLITE DATA N64-31533 23-12

COSMIC RADIATION INTENSITY DATA - 8IHOURLY NEUTRON AND MESON INTENSITY N64-32020 23-12

LATTICE VIBRATIONS STUDY THROUGH MEASUREMENTS OF TEMPERATURE DEPENDENCES OF X-RAY BRAGG INTENSITIES
TR-3 N64-32212 23-25

OBSERVATIONS ON SOLAR AND COSMIC RADIATION INTENSITY, PARTICLES AND PLASMA LAYER DISTRIBUTION, AND MAGNETIC FIELD VARIATIONS FROM MARS I SPACECRAFT
FTD-TT-64-237/1&2&3&4 N64-33221 24-29

INTENSITY OF STRONTIUM-90, CESIUM 137, & RADIOACTIVE RARE EARTH PARTICLES IN RAIN AND AIR
LAMS-2878 N64-33469 24-21

RADIATION MEASUREMENT
MARINER II OBSERVATION OF VENUS SURFACE PROPERTIES BY RADIATION MEASUREMENTS N64-10343 01-32

RADIOLOGICAL SURVEY CORRELATING GAMMA RADIATION LEVEL WITH GEOLOGY
CEX-6164 N64-10407 01-16

DAYTIME RADIATION DATA FROM TIROS III OVER CLOUDY REGIONS
AFCRL-63-860 N64-10541 01-21

CATALOG OF MAPPING PROCEDURES FOR TIROS II RADIATION DATA UTILIZING AUTOMATIC DATA-PROCESSING EQUIPMENT
NASA-TM-X-51116 N64-10602 01-28

CATALOG OF MAPPING PROCEDURES FOR TIROS III RADIATION DATA UTILIZING AUTOMATIC DATA-PROCESSING EQUIPMENT
NASA-TM-X-51117 N64-10603 01-28

RADIATION EXPERIMENTS OF TELSTAR SATELLITE
N64-10875 02-28

MEASURING GAMMA RADIATION WITH MICRODETECTOR COMPOSED OF PLASTIC SCINTILLATOR & SELENIUM PHOTOCONDUCTIVE CELL
FTD-TT-63-863/1&2 N64-12842 04-23

RADIATION MEASUREMENT TECHNIQUES FOR LOW ALTITUDE AIRBORNE TARGETS - RADIOMETRY
RE-TR-63-26 N64-13743 05-23

LOW FREQUENCY CRYSTAL APPARATUS AND RESONATORS FOR RADIATION AND RELIABILITY STUDIES
AD-426953 N64-14120 05-09

MEASUREMENT OF SIMULATED & ACTUAL RADIOACTIVE FALLOUT FROM GROUND & UNDERGROUND STRUCTURES
CEX-59.78 N64-14799 06-23

DEGRADATION MEASUREMENTS OF SOLAR CELL IRRADIATION UNDER TUNGSTEN AND SUNLIGHT ILLUMINATIONS
NASA-TN-D-2098 N64-15845 07-06

TIROS II INFRARED RADIATION MEASUREMENTS TAKEN IN ORBIT OVER NEW ZEALAND
NASA-TN-D-1910 N64-15970 07-12

CLOUD SCATTERING IN INFRARED AND CLEAR ATMOSPHERIC SCATTERING
LAS-TR-199-45 N64-16572 08-21

SYNOPTIC ANALYSIS OF TIROS III RADIATION MEASUREMENTS
AFCRL-64-53 N64-17284 09-21

RADIATION BALANCE AND THERMOCOUPLE FOR MEASUREMENT OF RADIATION
NASA-TM-D-2246 N64-17749 09-13

LASER CONCEPTUAL MODELS, OUTPUT PARAMETERS, AND MEASUREMENT TECHNIQUES
RADC-TDR-63-564 N64-17961 10-25

PROTOTYPE PORTABLE MICROCALORIMETER FOR MEASUREMENT OF ABSORBED RADIATION DOSES
USNRDL-TR-710 N64-18189 10-15

GAMMA RADIATION BACKGROUND IN SALT MINE MEASURED WITH SODIUM IODIDE CRYSTAL DETECTOR AND MULTI-CHANNEL ANALYZER
UR-641 N64-19858 12-23

AUTOMATICALLY RECORDING DIFFERENTIAL BALANCE METER VERSUS STANDARD BALANCE METER IN MEASUREMENT OF RADIATION BALANCE OF NATURAL SURFACES
N64-20218 13-15

ASSEMBLY AND SCHEMATIC DRAWINGS, TEST DATA, AND PRODUCTION COST ESTIMATES OF CALIBRATOR FOR RADIATION METER N64-20530 13-15

RADIATION MEASUREMENT OF POLYMERS AND ORGANIC COMPOUNDS
AEC-TR-6316 N64-20560 13-07

RADIATION MEASUREMENTS OF COMBUSTION OF LIQUID OXYGEN JETS IN HIGH PRESSURE HYDROGEN ATMOSPHERE
NASA-TM-X-52023 N64-20576 13-26

RADIATION MEASUREMENTS IN STAGNATION REGION AND WAKE OF HYPERVELOCITY PROJECTILES - TRANSMISSION AND REFLECTION COEFFICIENTS OF PLASMA SLABS
TR-63-202 N64-21159 14-02

MEASUREMENT OF RADIATION INTENSITIES IN VERTICAL CONCRETE LINED HOLES & ADJOINING TUNNEL
ORNL-3513 N64-21510 15-23

PROBLEMS OF INTERPRETING RESULTS OF MEASUREMENTS OF OUTGOING RADIATION BY MEANS OF METEOROLOGICAL SATELLITES N64-21630 15-12

RADIATION MEASUREMENTS IN SPACE OBTAINED BY COSMOS IV AND COSMOS VII SATELLITES PRIOR TO FLIGHT OF VOSTOK III & VOSTOK IV SPACECRAFT
N64-21640 15-29

MEASUREMENT OF RADIATION DOSES RECEIVED BY COSMONAUTS IN VOSTOK III AND VOSTOK IV SPACECRAFT FLIGHTS N64-21642 15-16

RATE AND ENERGY RESPONSE OF RADIATION DOSIMETRY SYSTEMS TO GAMMA RAYS, ELECTRONS, AND FAST AND THERMAL NEUTRONS
S-237-R N64-22507 15-15

PROBLEMS OF RADIATION DOSIMETRY IN X-RAY DIAGNOSIS AND TREATMENT N64-22732 16-16

GAS COUNTER FOR MEASUREMENT OF BETA RADIATION FROM FISSION PRODUCTS N64-23322 16-12

RADIATION MEASURING INSTRUMENTS, AIRCRAFT FLIGHT TESTS OF NIMBUS RADIOMETERS, AND BALLOON FLIGHT DATA
NASA-CR-56207 N64-23939 16-15

PROTON SPECTROMETER USING SEMICONDUCTOR DETECTORS FOR SPACE RADIATION MEASUREMENTS
ML-TDR-64-1 N64-24194 16-15

LIMB DARKENING DETERMINATION FROM TIROS III SATELLITE RADIATION MEASUREMENT
NASA-CR-56035 N64-25573 17-12

RADIATION MEASUREMENTS FROM PLASMA SHEATH SURROUNDING HYPERSONIC PROJECTILE
N64-26154 18-24

AIR RADIATION MEASUREMENT FROM FLOW FIELDS OF HIGH SPEED BODIES N64-26155 18-13

MEASUREMENT OF COSMIC RAY NEUTRON FLUX AT 45-DEG GEOMAGNETIC LATITUDE

AFCRL-64-487 N64-26178 18-28

DETECTION OF THIN FILM RADIATION EXPOSURE USING MARINER II SPACE PROBE
NASA-CR-58122 N64-26600 18-19

MEASUREMENT OF EARTH RADIATION EMISSION FROM SATELLITE
EK-ARD-ED-995 N64-26673 18-12

INSTRUMENTATION AND LAYOUT OF ELEKTRON SATELLITES USED TO MEASURE RADIATION ZONES AROUND EARTH
RAE-TRANS-1062 N64-26746 18-32

INTERPRETATION OF RADIATION MEASUREMENTS FROM SATELLITES N64-29081 21-29

CALCULATION OF OUTGOING LONG WAVE RADIATION FLUX FROM SATELLITE RADIATION MEASUREMENTS N64-29084 21-28

IONIZATION AND DEIONIZATION IN LOWER IONOSPHERE - GEOPHYSICAL OBSERVATIONS AND LABORATORY MEASUREMENTS
AD-418467 N64-29315 21-12

DIGITAL DISPLAY AERIAL SURVEY METER FOR MEASUREMENT OF RADIOACTIVE FALLOUT
OCD-2131-F N64-30055 21-15

REVIEW OF SOLAR COSMIC RAY EVENTS - MEASUREMENT TECHNIQUES, ONSET AND DECAY PHASES, AND SPECTRA AND INTENSITIES OF SPECIFIC EVENTS N64-30277 22-28

MEASUREMENT DEVICES FOR HIGH INTENSITY OPTICAL RADIATION FROM LASERS
EOS-3490-FINAL N64-31165 22-15

SOLAR EXTREME ULTRAVIOLET RADIATION OBSERVATIONS BY OSO-I MONOCHROMATOR
NASA-RP-338 N64-31215 22-28

TIROS III MEASUREMENT OF CLOUD HEIGHTS AND NIGHTTIME CLOUD COVER FROM RADIATION DATA
NASA-RP-340 N64-31217 22-21

HANDBOOK OF STANDARD PROCEDURES FROM HEALTH AND SAFETY LABORATORY ON RADIATION MEASUREMENTS, CHEMICAL PROCEDURES, AND FALLOUT HANDLING METHODS
NYO-4700, SUPPL. 1 N64-31320 22-07

ENVIRONMENTAL RADIATION MEASUREMENTS IN CENTRAL, SOUTHEASTERN, AND WESTERN UNITED STATES, 1962-1963
HASL-145 N64-32160 23-21

METHODS AND INSTRUMENTS FOR METEOROLOGICAL OBSERVATIONS - RADIATION AND OPTICAL MEASUREMENT - AIRCRAFT AND RECORDING INSTRUMENTS - RADIOACTIVE ISOTOPES
JPRS-26742 N64-32328 23-21

SURFACE TEMPERATURE MEASUREMENT BY RADIATION N64-32340 23-12

MEASUREMENTS OF FAR FIELD RADIATION PATTERNS IN NEAR FIELD OF RADIATING LENS FED WITH GOUBAU BEAM WAVEGUIDE
TR-81 N64-33028 24-08

TRAPPED RADIATION MEASUREMENTS BY RELAY I SATELLITE
NASA-CR-59023 N64-33123 24-28

INSTRUMENT CALIBRATION, DATA PROCESSING, AND PROGRAMMING FOR SATELLITE RADIATION MEASUREMENT
NASA-CR-59250 N64-33292 24-15

VERTICAL RADIO FREQUENCY TEST RANGE FOR ANTENNA RADIATION MEASUREMENT
NASA-TM-X-55094 N64-33566 24-08

RADIATION MEDICINE

BIOMEDICAL EVALUATION OF BURN SHOCK AGAINST BACKGROUND OF RADIATION EFFECT N64-10009 01-16

TOXICOLOGY OF RADIOACTIVE MATERIALS
JPRS-21511 N64-10037 01-16

COMPOUNDS USED FOR ELIMINATION OF RADIOACTIVE IRON-59 IN ORGANISM N64-10038 01-16

POLYVINYL PYRROLIDINE EFFECTIVENESS IN REDUCING RETENTION OF RADIOISOTOPES IN BODY N64-10039 01-16

RESEARCH IN RADIOBIOLOGY, GENETICS, RADIATION MEDICINE, AND BIOPHYSICS
JPRS-21868 N64-10328 01-16

BIOCHEMISTRY - IONIZING RADIATION EFFECT ON MOUSE TISSUE, THERAPEUTIC AGENTS FOR RADIATION INJURIES, AND IRRADIATION EFFECT ON ANIMAL LIFESPAN
QPR-49 N64-13501 05-16

INHIBITION BY X-RAYS & CHEMICAL AGENTS OF ENZYMES WHICH CATALYZE METABOLISM OF FOREIGN CHEMICALS IN MAMMALIAN TISSUE - TOXICOLOGY & IONIZING RADIATION N64-13502 05-16

IONIZING RADIATION EFFECT ON THIOPHOSPHATE OXIDIZING ENZYME IN RAT LIVER - BIOCHEMISTRY N64-13503 05-16

ORAL ADMINISTRATION OF SEROTONIN AND SULFUR DRUGS AND EFFECT ON RADIATION CHANGES OF SPLEEN, THYMUS GLAND, AND INTESTINE ENZYME ACTIVITIES N64-13504 05-16

CYANIDE AND NITRILE COMPOUNDS FOR THERAPY OF RADIATION EXPOSURE IN MICE N64-13505 05-16

RECOVERY OF MOUSE TISSUE FROM RADIATION INJURY BY SODIUM SULFITE OR THIAZOLIDINE TREATMENT N64-13506 04-16

SURVIVAL TIME OF MICE PROTECTED WITH NITRO-SUBSTITUTED HYDROCARBONS AFTER LETHAL DOSE OF X-RAYS N64-13507 05-16

ACETYLATION OF SULFANILAMIDE IN FEMALE MOUSE LIVER DURING CHRONIC IRRADIATION N64-13508 05-16

MORTALITY RATE OF MICE HOUSED IN PLASTIC & METAL CAGES AFTER SINGLE X-RAY DOSE N64-13509 05-16

COMPARATIVE STUDY BETWEEN 2-MERCAPTOETHYLAMINE HYDROCHLORIDE AND P-AMINOPROPIOPHENONE FOR X-RAY AND HIGH ENERGY PROTON IRRADIATION SHIELDING N64-13510 04-10

REPORTS ON RADIOBIOLOGY AND RADIATION MEDICINE
NASA-CR-55512 N64-15201 07-01

BRAIN INJURIES FOLLOWING ALPHA PARTICLE IRRADIATION OF PITUITARY GLAND N64-15206 07-16

MATHEMATICAL ANALYSIS OF RADIATION INJURY INCIDENCE IN CELL CULTURE N64-15208 07-16

OBSERVATION, DIAGNOSIS, AND TREATMENT OF RADIATION INJURY AND SICKNESS
JPRS-22879 N64-15676 07-16

INDUSTRIAL SAFETY - CARE AND OBSERVATION OF PERSONS WORKING WITH RADIATION SOURCES, AND ANALYSIS OF MEDICAL OBSERVATIONS N64-15677 07-16

RADIATION MEDICINE - THERAPEUTIC PASTE FOR TREATMENT OF RADIATION LESIONS N64-15678 07-16

POSSIBLE DIAGNOSTIC TECHNIQUE FOR DETERMINING BODY REACTION TO SMALL DOSES OF IONIZING RADIATION BY OBSERVING PHOSPHINE THRESHOLD OF RETINA N64-15679 07-16

ANTHRAX VACCINE INJECTION IN ANIMALS TO REDUCE MORTALITY RATE FROM RADIATION SICKNESS N64-15680 07-16

ACTH INJECTION OF RATS IRRADIATED WITH X-RAYS, AND ORGAN PERMEABILITY CHANGES N64-15681 07-16

RESTORATIVE PROCESSES IN DUODENAL MUCOSA AFTER RADIATION EXPOSURE
JPRS-22276 N64-15828 07-16

EFFECTS OF MASSIVE DOSES OF IONIZING RADIATION UPON CONDITIONED AVOIDANCE BEHAVIOR OF PRIMATES
DASA-NWER-03.008 N64-15993 07-16

PURIFICATION AND IDENTIFICATION OF FACTOR FROM CALF SPLEEN WHICH PREVENTS RADIATION INJURIES
AD-432125 N64-16831 08-16

EFFECTS OF RADIATION ON OXYGEN BALANCE IN BRAIN TISSUES N64-16907 09-16

RADIATION MEDICINE - RADIATION EFFECTS, LIPID METABOLISM, IMMUNOLOGY, AND DIAGNOSIS
ORINS-43 N64-16945 09-16

DISRUPTIONS OF NATURAL IMMUNITY IN IRRADIATED ANIMALS AND METHODS OF REESTABLISHING N64-17169 09-16

EFFECT OF RADIATION INJURY OF NUCLEI ON SYNTHESIS OF INFORMATIONAL RIBONUCLEIC ACID IN FISH EMBRYO
JPRS-23944 N64-18334 10-16

PHYSIOLOGICAL REACTIONS TO RADIATION & BIOTELEMETRY
JPRS-24301 N64-18972 11-16

RADIATION AND RADIOISOTOPES EFFECTS ON BIOLOGICAL SYSTEMS - ANNOTATED BIBLIOGRAPHY
TID-3098, BK. 1 N64-19035 11-16

ANNOTATED BIBLIOGRAPHY ON RADIATION EFFECTS ON BIOLOGICAL SYSTEMS
TID-3098, BK. 2 N64-19036 11-16

BONE MARROW TRANSPLANTATION AFTER WHOLE-BODY IRRADIATION OF RAT
EUR-484.E N64-19296 11-16

IONIZING RADIATION EFFECTS ON MAMMALIAN TISSUES, THERAPEUTIC AGENTS FOR RADIATION SICKNESS AND EFFECTS OF LOW LEVEL EXPOSURE ON LIFESPAN OF MICE
QPR-51 N64-20181 13-16

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SB-62-60 N64-20517 13-16

TIME AND DOSE DEPENDENCY OF NITROGEN COMPOUND EXCRETION FROM ISOLATED FROG LIVER AFTER WHOLE-BODY IRRADIATION
NIJS-R-422 N64-21048 14-14

EFFECT OF HISTAMINE AND CYSTEINE ON NITROGEN EXCRETION FROM LIVER OF IRRADIATED FROG
NIJS-R-423 N64-21049 14-14

NITROGEN COMPOUNDS EXCRETED BY ISOLATED LIVER OF NONIRRADIATED AND IRRADIATED FROGS
NIJS-R-421 N64-21056 14-16

THERAPY OF PATIENTS WITH RADIATION INJURIES - MEDICINE
FTD-TT-63-610/1&2 N64-22652 15-16

COSMIC RADIATION EFFECT ON ORGANISMS AND DEVELOPMENT OF PROTECTIVE MEASURES
FTD-TT-64-33/1&2&4 N64-23335 16-16

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SB-62-60, VOL. II N64-25511 17-16

CHRONIC EFFECTS OF IONIZING RADIATION ON HEMATOPOIETIC SYSTEM
AD-602135 N64-29673 21-16

EFFECT OF IONIZING RADIATION ON BIOCHEMISTRY OF MAMMALIAN TISSUE - PHARMACOLOGICAL & TOXICOLOGICAL AGENTS FOR RADIATION PROTECTION - EFFECT OF GAMMA & NEUTRON IRRADIATION ON ANIMAL LIFESPAN
QPR-52 N64-29872 21-16

METABOLIC CHANGES IN HUMANS FOLLOWING TOTAL BODY IRRADIATION
DASA-1422 N64-29941 21-16

NEUTRON GENERATOR APPLICATIONS - NUCLEAR PHYSICS AND CHEMISTRY, CHEMICAL ENGINEERING, BIOLOGY, AND RADIATION MEDICINE N64-31788 23-23

RADIATION EFFECTS - RELATION OF ARTERIAL PRESSURE & REGULATING MECHANISMS AND LIPOLYTIC ENZYME INDUCTION BY CONNECTIVE TISSUE CELLS
FTD-TT-64-329/1&2&4 N64-32544 23-16

RADIATION METER
PORTABLE RADIATION SURVEY INSTRUMENT FOR DETECTION AND MEASUREMENT OF RADIOACTIVE CONTAMINATION
HW-78872 N64-11208 02-15

RADIATION PROTECTION
RADIOSENSITIVITY OF ORGANISMS TO IONIZING RADIATION - PROTECTION BY VEGETABLE PIGMENTS IN PLANT CELLS & ANTIOXIDANTS IN ANIMAL ORGANISMS
JPRS-19363 N64-11069 02-16

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LAMS-2946 N64-18094 10-16

RADIATION SICKNESS - PROTECTIVE EFFECT OF BACTERIAL ANTIGENS, ACCUMULATION OF IODINE 131, & REGENERATION OF SCIATIC NERVE
JPRS-24704 N64-20827 14-16

DOSIMETRY, RADIATION DISTRIBUTION, RADIATION PROTECTION, RADIOBIOLOGY, AND BIOPHYSICS
NYO-2740-1 N64-21035 14-23

RADIATION SICKNESS - PHARMACOLOGICAL PROTECTION
JPRS-24817 N64-21729 15-16

RADIATION PROTECTION AND CONTAMINATION CONTROL FOR EXPERIMENTAL GAS-COOLED REACTOR
EGCR-4 N64-21837 15-16

RADIATION PROTECTION OF PERSONS WORKING NEAR GAMMA RADIATION THERAPEUTIC UNITS N64-22731 16-16

COSMIC RADIATION EFFECT ON ORGANISMS AND DEVELOPMENT OF PROTECTIVE MEASURES
FTD-TT-64-33/1&2&4 N64-23335 16-16

BIOLOGICAL EFFECT OF COSMIC RADIATION AND RADIATION PROTECTION MEASURES N64-23744 16-16

MECHANISM OF ACTION OF RADIATION PROTECTIVE CHEMICALS
AD-439992 N64-26633 18-16

RADIATION PROTECTION STANDARDS TO REDUCE HAZARD OF RADIOACTIVE CONTAMINATION OF FOOD
REPT.-5 N64-26757 18-16

MAN IN SPACE - EXPLORATION STAGES, LIFE SUPPORT SYSTEMS, RADIATION PROTECTION, TRAINING, AND PHYSIOLOGICAL RESEARCH METHODS
JPRS-25825 N64-28438 20-29

RADIOLOGY & PROTECTION OF COMMUNITY FROM RADIATION
FTD-TT-64-163/1&2&4 N64-29073 21-16

CHEMICAL METHODS TO PROTECT BIOLOGICAL SYSTEMS AGAINST IONIZING RADIATION N64-29074 21-16

ORGANIZATION OF RADIATION PROTECTION MEASURES BY COMMUNITY N64-29075 21-16

SYNTHESIS OF RADIOPROTECTIVE STEREOSPECIFIC AMINOTHIOLS
AD-601839 N64-29332 21-07

SYNTHESIS OF STEREOSPECIFIC AMINOTHIOLS AS RADIOPROTECTIVE AGENTS
AD-601838 N64-29333 21-07

MECHANISMS OF CHEMICAL PROTECTION AGAINST RADIATION IN LIVING ORGANISMS - RADIOBIOLOGY
JPRS-26842 N64-31313 22-16

ANNOTATED BIBLIOGRAPHY ON PHYSICAL CHARACTERISTICS OF THERMAL RADIATION AND RADIATION SOURCES, AND PROTECTION AGAINST BIOLOGICAL EFFECTS
TDCK-33500 N64-32018 23-16

RADIATION PROTECTION FOR MONKEY WITH L-CYSTEINE AND AMINOETRYLISOTHIURONIUM DIBROMIDE

SAM-TDR-64-40 N64-32031 23-16

X-RAY PROTECTIVE EFFECTS OF SEROTONIN AND ALLIED SUBSTANCES
REPT.-1 N64-32583 23-16

RADIATION PROTECTION - CHEMOTHERAPY & RADIOBIOLOGY
AEC-TR-6258 N64-33582 24-16

RADIATION RESISTANCE
CHEMICAL PROTECTION FOR RESISTANCE TO IONIZING RADIATION IN MAMMALS
JPRS-18918 N64-10647 01-16

RESISTANCE OF SILICON SOLAR CELLS TO PROTON AND ELECTRON RADIATION
NASA-TM-X-51189 N64-11382 02-06

ITERATIVE SOLUTION OF GOVERNING EQUATION FOR INVISCID, RADIATION RESISTED SHOCK WAVES
NASA-TN-D-2128 N64-12690 04-11

ARSENIC AND PHOSPHOROUS DOPED CRYSTALS EVALUATION FOR TRANSISTOR EFFECT ON RADIATION RESISTANCE
QR-1 N64-13619 05-25

RADIORESISTANCE OF THERMOTOLERANT STRAINS OF ESCHERICHIA BACTERIA N64-13696 05-16

HIGH TEMPERATURE, RADIATION-RESISTANT, SOLAR CELL ARRAY
AED-R-2117 N64-14649 06-25

DENDRITIC SILICON SOLAR CELL AND RADIATION RESISTANCE OF ARRAY
AD-429047 N64-15092 07-06

RADIATION RESISTANT DIGITAL CIRCUITS USING SEMICONDUCTOR DEVICES
SM-45766 N64-18097 10-09

OPTIMUM STRUCTURE FOR WEBBED DENDRITIC SILICON SOLAR CELLS WITH RESISTANCE TO DAMAGE BY 2-MEV ELECTRONS
APL-TDR-64-20 N64-18388 10-06

STABILIZED RADIATION RESISTANT OPTICAL GLASSES
AERE-R-3998 N64-20495 13-19

PRODUCTION PROCESSES FOR RADIATION RESISTANT ELECTRON TUBES
QPR-2 N64-25200 17-17

STRUCTURE OF RADIATION-RESISTED SHOCK IN SIMPLE DISSOCIATING GAS
SSD-TDR-64-47 N64-25246 17-11

RADIATION RESISTANCE OF THERMIONIC INTEGRATED MICROMODULES N64-28680 20-09

RADIATION RESISTANCE OF POLYVINYL CHLORIDE AND ADHESIVES FOR CEMENTING PROTECTIVE COATINGS TO CONSTRUCTION UNIT SURFACES
JPRS-26001 N64-29119 21-07

EXTERNAL GAMMA RADIATION EFFECTS ON RADIATION RESISTANT AND STABILIZATION-INHIBITING ADDITIVES OF POLYVINYL CHLORIDE N64-29120 21-07

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NASA-CR-58680 N64-29152 21-06

RADIATION RESISTANCE OF SILICON WEBBED DENDRITIC SOLAR CELLS - DIFFUSION TECHNIQUES, DRIFT FIELD, STRUCTURES, AND EFFECT OF VACUUM ENVIRONMENT ON DAMAGE RATES N64-29160 21-06

DRIFT FIELD SOLAR CELLS FOR IMPROVED RADIATION RESISTANCE N64-29163 21-06

STAINLESS STEEL - COMPOSITION, PROPERTIES, STRUCTURE, AND RESISTANCE TO CORROSION, OXIDATION, AND RADIATION
DP-860, VOL. 1 N64-33060 24-18

RADIATION SHIELDING
GRAPHICAL CALCULATION OF SHIELD THICKNESS FOR GAMMA RAY OVERDOSE PROTECTION
AEET/HP/TH-4 N64-10230 01-23

RADIATION SHIELDING AND DYNAMIC RESPONSE OF UNDERGROUND REINFORCED-CONCRETE TEST STRUCTURES
WT-1723 N64-11964 03-23

NEUTRON PHYSICS - RADIATION SHIELDING, SECONDARY RADIATION, & RADIATION DETECTORS
ORNL-3499, VOL. 2 N64-12531 04-01

ENERGY DEPOSITED IN SHIELDED SOLAR CELLS BY HIGH-ENERGY ELECTRONS N64-12535 04-23

PROTON BEAM EXPOSURE OF NUCLEAR EMULSIONS EMBEDDED IN STEEL SHIELD N64-12537 04-23

SOLAR FLARE ATTENUATION BY ALUMINUM SHIELDS - NUCLEON-MESON CASCADE CALCULATIONS FOR SOLAR FLARE PROTON SPECTRA ON SHIELD N64-12538 04-23

RADIATION EFFECT ON SPERM MUTATION, YEAST CELL RESTORATION, & LIVER REGENERATION, AND SHIELDING ACTION OF CYSTAMINE
JPRS-22083 N64-12793 04-16

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE AND SHIELDING AGENT ACTION AFTER REPEATED IRRADIATION
JPRS-22082 N64-12886 04-16

CYSTEAMINE ASCORBATE AS SHIELDING AGENT IN ANIMALS GIVEN PRIMARY & SECONDARY IRRADIATION N64-12888 04-16

ATTENUATION OF SOLAR FLARES BY ALUMINUM SHIELDS OF SLAB AND SPHERICAL-SHELL GEOMETRIES OF VARYING THICKNESS
ORNL-3520 N64-14247 06-23

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JPRS-23306 N64-15327 07-16

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Y-1401 N64-15994 07-01

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TG-193 N64-16484 08-15

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JPRS-23567 N64-16543 08-16

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NASA-CR-56005 N64-17676 09-23

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ORNL-3576 N64-19070 11-23

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USNRDL-TR-707 N64-19116 11-23

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NYO-10721 N64-20519 13-27

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CF RADIOPATHOLOGY
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JPRS-21492 N64-10066 01-16

PERMEABILITY OF HEMATOENCEPHALIC BARRIER TO INORGANIC PHOSPHATE IN ACUTE RADIATION SICKNESS
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JPRS-19269 N64-11349 02-16

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JPRS-18620 N64-11829 03-16

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N64-11830 03-16

INFECTION PROCESSES IN IRRADIATED ANIMALS - RADIATION EFFECT N64-11831 03-16

NONINFECTIOUS IMMUNOLOGY OF RADIATION SICKNESS
N64-11832 03-16

BONE MARROW TRANSPLANTATION EFFECT ON DOGS WITH ACUTE RADIATION SICKNESS
JPRS-22591 N64-12149 03-16

ROLE OF FUNCTIONAL STRESS IN LOCALIZATION OF RADIATION SICKNESS
JPRS-22586 N64-12576 04-16

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JPRS-22180 N64-12764 04-16

PROTECTIVE AND THERAPEUTIC EFFECT OF SOMATOTROPIC HORMONE IN RADIATION SICKNESS N64-12769 04-16

EARLY DIAGNOSIS OF RADIATION SICKNESS
JPRS-22049 N64-12776 04-16

ORIGIN & DEVELOPMENT OF RADIATION LESIONS IN BLOOD PROTEIN - INVESTIGATION USING THERMAL PROPERTIES OF BLOOD SOLUTIONS N64-12777 04-16

PROTEIN CONTENT OF BLOOD SERUM DURING ACUTE RADIATION SICKNESS N64-12778 04-16

PROTEIN METABOLISM IN RABBITS DURING ACUTE RADIATION SICKNESS N64-12779 04-16

PROTEIN METABOLISM IN DOGS GIVEN TREATMENT FOR ACUTE RADIATION SICKNESS N64-12780 04-16

NUCLEIC ACID METABOLISM IN RAT SPLEEN AND BONE MARROW DURING ACUTE RADIATION SICKNESS
N64-12781 04-16

FLUORESCENT MICROSCOPIC INVESTIGATION OF FORMED ELEMENTS IN BLOOD AND BONE MARROW DURING RADIATION SICKNESS N64-12782 04-16

TOXICITY OF RAT BLOOD PLASMA DURING RADIATION SICKNESS N64-12783 04-16

HUMAN SKIN REACTION TO ACUTE LOCAL EXPOSURE TO RADIATION N64-12784 04-16

RADIATION SICKNESS
JPRS-19996 N64-12801 04-16

EFFECT OF TRYPTAMINE ON FORMATION OF HEMORRHAGES IN IRRADIATED MICE N64-12802 04-16

EFFECT OF ULTRAVIOLET RADIATION ON RADIATION SICKNESS IN RATS N64-12803 04-16

PROBLEMS OF PATHOGENESIS, DISEASE PREVENTION, & THERAPY OF RADIATION INJURY N64-12804 04-16

ANTIBIOTIC THERAPY OF RADIATION SICKNESS IN MICE - STREPTOMYCIN EFFECTIVENESS, TREATMENT TIMING, HINDERING FACTORS, AND DETOXICATING MIXTURE
JPRS-22625 N64-13161 04-16

CHANGES IN EPITHELIUM OF RATS UNDER INFLUENCE OF RADIATION
JPRS-22556 N64-14251 06-16

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N64-14252 06-16

CHANGES IN TRANSITIONAL EPITHELIUM IN RATS AFTER X-RAY IRRADIATION N64-14253 06-16

COURSE OF RADIATION SICKNESS IN PROTON IRRADIATED MICE N64-15203 07-16

OBSERVATION, DIAGNOSIS, AND TREATMENT OF RADIATION INJURY AND SICKNESS
JPRS-22879 N64-15676 07-16

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N64-15680 07-16

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AD-430559 N64-16645 08-16

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JPRS-23670 N64-16694 08-16

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JPRS-23834 N64-17555 09-16

ADDITION OF MODES OF RADIATION INJURY IN PRODUCING LETHALITY IN DOGS, MICE, AND RATS
UR-654 N64-20696 13-16

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JPRS-24452 N64-20943 14-16

RADIATION SICKNESS FROM INTERNAL RADIATION - ORAL DOSE OF RADIUM BROMIDE POWDER N64-20944 14-16

SERUM PROPHYLAXIS AND THERAPY OF BACTERIAL INTOXICATIONS IN IRRADIATED ANIMALS
N64-20946 14-16

CLASSIFICATION OF RADIATION SICKNESS
N64-20948 14-16

ACUTE RADIATION SICKNESS IN MAN
FTD-TT-63-558/1&2 N64-21645 15-16

RADIATION SICKNESS - PHARMACOLOGICAL PROTECTION
JPRS-24817 N64-21729 15-16

EDIBLE PROTEIN-VITAMIN COMPLEX FOR PROTECTION FROM RADIATION SICKNESS, AND GAMMA RADIATION EFFECT ON VITAMIN CONTENT OF RAT LIVER AND BRAIN
FTD-TT-63-1064/1&2&4 N64-22363 15-16

RADIATION SICKNESS IN MAMMALS AND RELATIVE BIOLOGICAL EFFECT OF HIGH ENERGY PROTONS
N64-22866 16-16

VIRUS AND MORPHOLOGICAL STUDY OF INDUCED RADIATION SICKNESS IN MICE
JPRS-25277 N64-24630 17-16

CHANGES OF HEMATOPOIETIC TISSUE IN DOG WITH ACUTE RADIATION SICKNESS AFTER BONE MARROW TRANSPLANT
JPRS-25251 N64-26055 18-16

ACTION OF ANTIBACTERIAL IMMUNITY ON RESISTANCE TO RADIATION
FTD-TT-63-933/1&2 N64-26722 18-16

ANTIRADIATION EFFECT OF PROPYL AND SODIUM GALLATES UNDER IRRADIATION OF 1000 ROENTGENS
JPRS-25274 N64-27264 19-16

RADIATION SICKNESS STUDIES - RADIOPROTECTIVE PROPERTIES OF ADRENOCORTICOTROPIN /ACTH/, USE OF DRUGS IN SICKNESS INDUCED BY POLONIUM INJECTIONS, AND TREATMENT OF SKIN LESIONS
JPRS-26542 N64-29759 21-16

CHANGES IN FRACTIONAL COMPOSITION & COLLOIDAL STABILITY OF SERUM PROTEINS IN RABBIT BLOOD DURING RADIATION SICKNESS N64-30243 22-16

UNITHIOL EFFECT UPON CASES OF ACUTE URANIUM POISONING N64-30245 22-16

REMOTE IMMUNOLOGICAL CONSEQUENCES OF EFFECT OF IONIZING RADIATION N64-30246 22-16

RADIOSENSITIVITY OF MICE AFTER SPLENECTOMY AND APPLICATION OF HOMOGENATE OF SPLEEN TISSUE IN CHRONIC RADIATION SICKNESS N64-30247 22-16

ANIMAL METABOLISM AND DETOXIFICATION OF METABOLIC PRODUCTS DURING RADIATION INJURIES
JPRS-26500 N64-30742 22-16

BIOLOGY AND MEDICAL STUDIES - SKIN PERCEPTION, NERVOUS SYSTEM, AND RADIATION SICKNESS
JPRS-26725 N64-32776 24-16

HEMATOLOGICAL, BIOCHEMICAL, AND MORPHOLOGICAL CHANGES IN DOGS DURING RECOVERY PERIOD FROM RADIATION SICKNESS N64-32780 24-16

PROPHYLACTIC ACTION OF AEROIONIZATION IN ACUTE RADIATION SICKNESS OF WHITE RATS
N64-32781 24-16

CHEMOTHERAPY FOR RADIATION SICKNESS
JPRS-27220 N64-33578 24-16

IMMUNOLOGY STUDIES - PREVENTION OF RADIATION SICKNESS, ANTHRAX VACCINE, LENGTH OF IMMUNITY TO SMALLPOX, AND EFFECTIVENESS OF PROPHYLACTIC VACCINATION
JPRS-27281 N64-33961 24-16

RADIATION SOURCE
FORMULATION OF ENAMEL FOR PLANAR BETA RADIATION SOURCES
RAI-202 N64-10013 01-23

CLOSED SOURCES OF GAMMA RADIATION - RADIOACTIVE COBALT, ZINC, CESIUM, & IRIDIUM
JPRS-20129 N64-10512 01-07

USE OF OPTICAL DOPPLER SHIFTS IN RADIATION FROM NATURAL SOURCES TO DETERMINE SPACE VEHICLE VELOCITY - SPACE NAVIGATION
F-A2415 N64-12042 03-15

RADIATIVE CHARACTERISTICS OF SHIELDED INFRARED SOURCES
TRECOM-TR-63-45 N64-13723 05-13

VARIATIONAL SOLUTION TO SOUND WAVE IN SOLID CYLINDRICAL RADIATION SOURCE OF FINITE LENGTH
U-177-48 N64-18266 10-23

HIGH MAGNETIC FIELD FAR INFRARED RADIATION SOURCES
N64-29479 21-23

FABRICATION OF STANDARD COBALT 60 GAMMA RADIATION SOURCE
BNL-848/T-334 N64-29658 21-10

FABRICATION OF CESIUM-137 SOURCES - ENCAPSULATION OF CESIUM CHLORIDE PELLETS IN STAINLESS STEEL
ORNL-3675 N64-30483 22-17

PHYSICAL BASES OF PULSE NEUTRON-NEUTRON LOGGING APPLIED TO GEOPHYSICS N64-31787 23-12

MULTIPLE CELL BLACK BODY RADIATION SOURCE WITH LARGE AREA FOR RADIATION EMISSION
N64-31867 23-23

RADIOACTIVE ELEMENTS - SEPARATION, HALF-LIFE, PARTICLE SOURCE AND COUNTING
MLM-1170 N64-32826 24-07

CONDUCTIVE ADHESIVES AND RADIOACTIVE ELEMENT RESEARCH - PARTICLE SOURCES, ISOTOPE SEPARATION, AND KRYPTON-85 COUNTING
MLM-1203 N64-32827 24-07

RADIATION SPECTRUM
ABSORPTION, FLUORESCENCE, AND LASER RADIATION SPECTRA FOR SOME COMMERCIAL LASER CRYSTALS
N64-13238 04-25

SURFACE WAVEGUIDING AND RADIATING SYSTEMS
CU-25-62-AF-3879-EE N64-13760 05-23

EQUIPMENT FOR ANTENNA PATTERN AND SPECTRUM MEASUREMENTS OF RADIATING WEAPON SYSTEMS - OPERATION CENTRAL AN/MSQ-16
RADC-TDR-63-403 N64-13783 05-08

HIGH ENERGY COSMIC RAY SPECTRUM & COMPOSITION
NASA-CR-56025 N64-20590 13-28

RADIATION OF SOLAR CORONA IN SPECTRA REGION WITH LAMBDA LESS THAN 10 ANGSTROMS
NASA-TT-F-9009 N64-23130 16-28

RECOMBINATION RADIATION IN CADMIUM TELLURIDE DURING EXCITATION BY FAST ELECTRONS
JPRS-25344 N64-25126 17-23

EFFECT OF CHANGES IN SOLAR ACTIVITY ON COUPLING COEFFICIENTS BETWEEN PRIMARY & SECONDARY COSMIC RAY VARIATIONS N64-25941 18-28

RADIATION SPECTRUM FROM VORTEX-STABILIZED ARC FOR SOLAR SIMULATOR
AEDC-TDR-64-165 N64-27443 19-28

SOUNDING ROCKET DATA ON INFRARED SPECTRAL RADIANCE OF NIGHT HORIZON AND SKY
NAVWEPS-8552 N64-33724 24-12

COMPUTER PROGRAM FOR ANALYZING COMPLEX GAMMA RAY SPECTRA OBTAINED WITH SCINTILLATION SPECTROMETERS
IDO-17015 N64-33964 24-23

RADIATION THERAPY
EFFECT OF PROTECTIVE-THERAPEUTIC COMBINATIONS ON GAMMA RADIATION SICKNESS IN RATS
JPRS-22123 N64-11358 02-16

RADIATION THERAPY, SYNCHROTRON OPERATION, RADIOBIOLOGY, & RADIATION GENETICS STUDIES
UCSF-23 N64-13133 04-16

ALPHA PARTICLE AND PROTON BEAMS IN RADIATION THERAPY OF PITUITARY GLAND TUMORS AND ADENOMA
N64-15205 07-16

CYBERNETICS IN RADIATION THERAPY
N64-20947 14-16

RADIATION PROTECTION OF PERSONS WORKING NEAR GAMMA RADIATION THERAPEUTIC UNITS
N64-22731 16-16

PROBLEMS OF RADIATION DOSIMETRY IN X-RAY DIAGNOSIS AND TREATMENT N64-22732 16-16

RADIATION THERAPY OF BRAIN TUMOR WITH HIGH ENERGY ALPHA PARTICLE BEAM FROM LARGE SYNCHROCYCLOTRON
N64-22865 16-16

COMPILATION OF ARTICLES ON MEDICINE - RADIATION SICKNESS, URANIUM POISONING, PROTEIN STABILITY IN BLOOD, RADIOSENSITIVITY, AND RADIATION THERAPY
JPRS-26216 N64-30241 22-16

INFLUENCE OF MEXAMINE ON REACTION OF PATIENT SUBJECTED TO RADIATION THERAPY N64-30242 22-16

CYANIDES AND NITRILES FOR RADIATION THERAPY - MEDICAL RADIOLOGY
JPRS-26887 N64-32306 23-16

IMMUNOLOGY AND THERAPY FOR IONIZING RADIATION
JPRS-27203 N64-33577 24-16

NERVOUS SYSTEM SENSITIVITY TO INJURY IN RADIATION THERAPY
JPRS-27289 N64-33975 24-16

RADIATION TRANSFER
SINGULAR SOLUTION OF INTEGRAL DIFFERENTIAL EQUATIONS IN RADIATIVE TRANSFER THEORY
RM-3575-PR N64-16790 08-20

POLARIZATION AND SCATTERING EFFECTS ON ATMOSPHERIC OPTICAL RADIATION TRANSMISSION
AFCRL-64-126 N64-18585 11-23

RADIATIVE TRANSFER IN FINITE HOMOGENEOUS ATMOSPHERES WITH ANISOTROPIC SCATTERING - UNIQUENESS PROBLEM FOR CHANDRASEKHAR EQUATIONS
RM-3909-PR N64-21910 15-23

RADIATION TRANSFER REGIMES IN HYPERSONIC FLIGHT
N64-26335 18-13

APPROXIMATE SOLUTION OF RADIATIVE TRANSFER PROBLEM IN ANISOTROPIC SCATTERING
NASA-TT-F-9141 N64-33405 24-12

APPROXIMATION TECHNIQUES FOR PROBLEMS INVOLVING RADIATIVE TRANSFER OF ENERGY AND HYDRODYNAMIC PROCESSES
DASA-1522 N64-33709 24-11

RADIATIVE HEAT TRANSFER
REACTOR CONCEPT WITH RADIATION AS PRINCIPAL HEAT TRANSFER MECHANISM BETWEEN REACTOR CORE AND HEAT EXCHANGER - GLOWWORM PROJECT
LAMS-2427 N64-11632 03-23

RADIATIVE & CONVECTIVE HEATING OF SHAPES ENTERING ASSUMED ATMOSPHERES OF MARS & VENUS AT SUPERORBITAL SPEEDS
NASA-TN-D-2064 N64-11903 03-13

RADIATION HEAT EXCHANGE IN FLAME FURNACE WITH VARIOUS FUELS AND OPERATING CONDITIONS
N64-11975 03-13

ROCKET EXHAUST PLUME RADIATIVE HEAT TRANSFER TO ROCKET BASE
AIAA PAPER-64-60 N64-14150 05-13

RADIATIVE HEAT TRANSFER IN LOW DENSITY CERAMICS WITH BARRIER PHASE IN REFRACTORY STRUCTURE - THERMAL INSULATING MATERIAL
NASA-CR-55559 N64-15533 07-19

RADIANT BLACK BODY HEAT REJECTION AND WEIGHT CHARACTERISTICS OF FIN TUBE SPACE RADIATORS WITH LINEARLY TAPERED FINS
NASA-TN-D-2168 N64-15847 07-13

TWO-DIMENSIONAL GRAY-GAS RADIANT HEAT TRANSFER IN COAXIAL-FLOW GASEOUS REACTOR
NASA-TN-D-2124 N64-15909 07-13

RADIATIVE ENERGY TRANSFER TO BASE REGIONS OF ROCKET FROM EXHAUST PLUMES
NASA-CR-55832 N64-16710 08-13

ARC SHOCK TUBE MEASUREMENTS OF AERODYNAMIC AND RADIATIVE HEATING AT SUPERORBITAL VELOCITIES
REPT.-1598-1 N64-17335 09-13

CONVECTIVE AND RADIATIVE HEAT TRANSFER MEASUREMENT WITH THIN FILM RESISTANCE
NASA-CR-27 N64-17771 09-13

INFLUENCE OF RADIATION HEAT EXCHANGE ON REMOVAL OF SUBSTANCE IN CRITICAL POINT OF BLUNT-NOSED BODY
FTD-MT-63-60/1&2 N64-18757 11-13

RADIATIVE INSULATION SYSTEM FOR STRUCTURAL PROTECTION IN REENTRY ENVIRONMENT
ERR-FW-120 N64-18921 11-13

DISPERSAL OF SOUND WAVES BY RADIATIVE HEAT TRANSFER IN HOT GAS
CAL-AF-1285-A-11 N64-19409 12-23

BOLTZMANN EQUATION FOR RADIATIVE HEAT TRANSFER OF FINITE PARTICLES AND SOLUTION FOR LIGHT SCATTERING PROBLEMS
RM-3937-ARPA N64-19551 12-23

RADIATIVE HEAT TRANSFER TO CYLINDRICAL BODIES
AMRL-TDR-64-20 N64-19817 12-13

PLASMA PHYSICS, RADIATIVE AND CONVECTIVE HEAT TRANSFER IN PLANETARY ATMOSPHERES, STELLAR STRUCTURE, AND GALACTIC DYNAMICS
NASA-CR-53869 N64-19954 12-05

CIRCULAR FILLET EFFECT ON RADIATIVE HEAT TRANSFER BETWEEN PLANAR SURFACES OF ZERO CONDUCTIVITY INTERSECTING AT SHARP ANGLE
NASA-TR-R-157 N64-21255 14-13

EVALUATING THERMAL RADIATIVE PROPERTIES OF SURFACES - SPECTROPHOTOMETER WITH INTEGRATING-SPHERE REFLECTANCE ATTACHMENT
RAE-TM-SPACE-28 N64-21738 15-13

NONLINEAR SUMMABILITY TECHNIQUES IN INVARIANT IMBEDDING AND APPLICATION TO RADIATIVE TRANSFER
RM-3397-PR N64-21911 15-23

RADIATIVE AND CONVECTIVE HEAT TRANSFER EFFECTS ON TEMPERATURE VARIATION IN MARTIAN ATMOSPHERE
GCA-TR-62-7-N N64-22076 15-29

RADIATIVE TRANSPORT FROM HOT GASES SIMULATING MARS-VENUS ATMOSPHERIC COMPOSITION
NASA-RP-174 N64-22413 15-13

DAYGLOW EMISSION STUDY OF RADIATIVE TRANSFER PROCESS IN ATOMIC OXYGEN
NASA-CR-56361 N64-22458 15-28

STAGNATION POINT EQUILIBRIUM RADIATIVE HEAT TRANSFER IN HIGH ENTHALPY GAS FLOWS
FDL-TDR-64-41 PT. II N64-22691 15-13

RADIATIVE TRANSPORT OF HEAT IN LUNAR AND PLANETARY INTERIORS AND SURFACES
D1-82-0328 N64-23216 16-29

AERONAUTICAL ENGINEERING - CALCULATING HEAT RADIATION IN NONSTEADY FLIGHT AND IN BENDING CANTILEVER PLATES
FTD-TT-62-1769 N64-23491 16-01

HEAT RADIATION IN NONSTEADY FLIGHT
N64-23492 16-13

RADIATIVE ENERGY TRANSFER ON ENTRY INTO MARS AND VENUS ATMOSPHERES
NASA-CR-56554 N64-24106 16-13

DYNAMIC PROPERTIES OF VARIOUS BODIES DURING HEAT EXCHANGE BY CONVECTION, CONDUCTION, AND RADIATION
N64-24552 17-15

ACTINOMETRIC OBSERVATIONS OF RADIATIVE HEAT TRANSFER, SOLAR RADIATION, AND ATMOSPHERIC SCATTERING N64-24788 17-15

ANNUAL VARIATION OF RADIANT FLOW EFFECT ON EARTH SURFACE HEAT EXCHANGE N64-24801 17-21

RADIATIVE AND FORCED CONVECTIVE HEAT TRANSFER TO FLOWING GAS WITH CARBON PARTICLES
NASA-RP-227 N64-24988 17-13

RADIATIVE HEATING OF VEHICLES ENTERING EARTH ATMOSPHERE N64-26157 18-13

RADIATIVE HEAT TRASFER IN ATMOSPHERES OF VENUS AND MARS
NASA-RP-251 N64-26314 18-05

SUPERSONIC FLOW, CHEMICAL PROCESSES, AND RADIATIVE TRANSFER N64-26326 18-11

RADIATIVE HEAT TRANSFER EQUATIONS FOR ATMOSPHERE MODEL SIMULATING EVOLUTION OF STATE OF ATMOSPHERE
N64-28780 20-21

RADIATIVE HEAT TRANSFER GAUGE FOR HYPERVELOCITY SHOCK TUBE
NASA-CR-58668 N64-29007 20-15

RADIATIVE HEAT TRANSFER ON ATMOSPHERIC ENTRY TO MARS OR VENUS - DISSOCIATION RATE OF CARBON MONOXIDE AT HIGH TEMPERATURES
NASA-CR-58574 N64-29185 21-24

RADIATION HEAT METERS OF SLUG CALORIMETER TYPE FOR MEASURING INCIDENT RADIATION HEAT FLUX
TM-14-63-U29 N64-29237 21-15

RADIATIVE HEATING OF BLUNT BODY IN HYPERSONIC FLOW BY SHOCK WAVE EMISSION N64-31529 23-13

RADIATIVE HYDRODYNAMICS AND HEAT TRANSFER RELATING TO REENTRY VEHICLES
KN-684-64-12 N64-33001 24-13

RADIATOR
CF HEAT REJECTION DEVICE
JOINING & ENVIRONMENTAL TESTING OF RADIATOR TUBE-FIN SAMPLES OF VARIOUS METALS
ERR-FW-115 N64-12664 04-14

ANTENNAS WITH OMNIDIRECTIONAL COVERAGE FOR SPACE VEHICLE APPLICATION - MANY RADIATORS AROUND CIRCUMFERENCE OF VEHICLE - RADIATION PATTERNS
NASA-CR-55191 N64-13336 04-30

HEAT TRANSFER OF THERMAL RADIATORS
NASA-TM-X-51129 N64-14263 04-13

RADIANT BLACK BODY HEAT REJECTION AND WEIGHT CHARACTERISTICS OF FIN TUBE SPACE RADIATORS WITH LINEARLY TAPERED FINS
NASA-TN-D-2168 N64-15847 07-13

HEAT TRANSFER IN SPACECRAFT RADIATORS, AND SURFACE RADIATION PROPERTIES
NASA-CR-53289 N64-17600 09-13

OPTIMAL USE OF FERRITES IN RECTANGULAR SLOT RADIATORS AND ANNULAR SLOT ANTENNAS
REPT.-5549-6-P N64-21364 14-09

HEAT TRANSFER AND WEIGHT ANALYSIS OF MOVING-BELT RADIATOR SYSTEM FOR WASTE HEAT REJECTION IN SPACE
NASA-TN-D-1990 N64-26411 18-13

RADIATOR AREA POTENTIAL OF OUT-OF-PILE THERMIONIC SPACE POWER SYSTEM USING INERT GAS AS HEAT TRANSFER MEDIUM
NASA-TN-D-2429 N64-26781 18-06

HYPERVELOCITY IMPACT DAMAGE CHARACTERISTICS IN ARMORED SPACE RADIATOR TUBES - METEOROID HAZARD
NASA-TN-D-2472 N64-28985 20-13

FLAT, DIRECT CONDENSING, CENTRAL FINNED-TUBE RADIATOR - DESIGN STUDY BY DIGITAL COMPUTER
NASA-TN-D-2474 N64-29208 21-06

THERMIONIC GENERATORS SUITABLE FOR LIQUID-METAL HEATING IN SPACE RADIATOR CONFIGURATIONS
PWA-2303 N64-29449 21-06

THERMIONIC CONVERTER FOR LIQUID METAL HEATING IN SPACE RADIATOR
PWA-2275 N64-30701 22-06

NOMOGRAM FOR CALCULATING PARAMETERS OF LINEAR EQUIDISTANT RADIATOR ARRAY N64-31354 23-09

RADICAL
SA FREE RADICAL
THERMAL DECOMPOSITION OF CYCLOHEXADIENEONE PEROXIDE PRODUCING RADICALS N64-12495 04-07

EXCITATION MECHANISM IN DI- AND TRIATOMIC RADICALS AND IONS - COMETARY PHYSICS
AFCRL-64-227 N64-16492 08-05

SYSTEMATIC METHOD FOR PRODUCING DENSE GASES WITH DIATOMIC RADICALS
NBS-8180 N64-16650 08-07

DIPHENYL-PICRYLHYDRAZINE AS RADICAL SCAVENGER
RSIC-214 N64-27050 19-07

IRRADIATION-PRODUCED RADICALS, ELECTRON MICROSCOPY OF SINGLE-STRAND DEOXYRIBONUCLEIC ACID, AND IRRADIATION-INDUCED DEFECTS IN DEOXYRIBONUCLEIC ACID
UCRL-11387, SUPPL. N64-30782 22-16

ELECTRON SPIN RESONANCE TECHNIQUES TO DETERMINE SPATIAL DISTRIBUTION OF RADICALS PRODUCED BY IRRADIATION N64-30783 22-07

RADICAL MATRIX INTERACTIONS IN LOW TEMPERATURE GLASSES - PHOTOREVERSABILITY
SSD-TDR-64-110 N64-31980 23-25

RADIO
SA RADIO METEOROLOGY
SA RADIO TELEMETRY
THEORETICAL TRAINING METHODS FOR RADIO ENGINEERS
JPRS-19999 N64-10592 01-14

PROPAGATION CHARACTERISTICS FOR AIR-GROUND WAVES IN 800-MC/S RANGE - EFFECT OF FLIGHT PATTERN
ESD-TDR-63-422 N64-15701 07-08

ELECTRICAL CHARACTERISTICS OF SUBSURFACE ROCK STRATA AND TECHNIQUES RELATED TO ROCK PROPAGATED RADIO SIGNALS
AFCRL-64-1 N64-16081 07-12

MILLIMETER WAVES FOR RADIO TRACKING AND SPACE COMMUNICATIONS N64-17201 09-23

PROPAGATION AND SCATTERING OF RADIO WAVES IN TURBULENT MAGNETO-IONIC MEDIA
R64SD17 N64-21062 14-08

RADIO TRACKING OF ORBITING SATELLITE USING DOPPLER AND RADIO INTERFEROMETER EQUIPMENT N64-21737 15-08

PERFORMANCE OF SINGLE & MULTIPLE VOICE RADIO TRANSCRIBERS WORKING UNDER THREE SPEECH-TO-NOISE RATIOS
USAPRD-TRN-135 N64-21761 15-14

RADIO-ENGINEERING METHODS EMPLOYED IN EXPLORATION OF IONOSPHERE - EVALUATION OF DATA FROM SPACE ROCKETS AND ARTIFICIAL SATELLITES
FTD-TT-62-464/1&2&3&4 N64-22153 15-32

SCATTERING OF SUPERHIGH FREQUENCY RADIO WAVES BY HAIL AND WET SNOW
NASA-CR-56940 N64-25763 17-08

RADIO PHYSICS, PLASMA DYNAMICS, AND COMMUNICATIONS SCIENCES AND ENGINEERING STUDIES
QPR-73 N64-26561 18-01

STRUCTURE OF SOLAR SUPERCORONA & RADIO EMISSION AND SCATTERING
NASA-TT-F-8935 N64-26788 18-05

VEHICLE TRACKING TRANSMITTER USED WITH VEHICLE MASTER OSCILLATOR AND FREQUENCY SYNTHESIZER
NASA-CR-58699 N64-29506 21-08

RADIO TRACKING SYSTEM TEST PLAN FOR FLIGHT INVESTIGATION OF REENTRY ENVIRONMENT FOR ATLAS LAUNCH VEHICLE
REPT.-64A240 N64-32149 23-08

RESEARCH IN PHYSICS, CHEMISTRY, MATHEMATICS, METALLURGY, RADIO, AND SOUND
AD-602948 N64-32786 24-10

ELECTRONIC ANALOG MACHINES FOR TEACHING THEORETICAL RADIO ENGINEERING N64-32905 24-08

RADIO ANTENNA
CF RHOMBIC ANTENNA
BIBLIOGRAPHY OF USSR LITERATURE ON RADIO ASTRONOMY ANTENNAS AND RADIO ASTRONOMY DATA PROCESSING
AID-B-64-11 N64-16779 08-05

RADIO ANTENNA ARRAY FOR SATELLITE COMMUNICATION AND CONTROL - COMMAND SYSTEM
NASA-CR-55807 N64-19978 12-09

DIRECTIONAL RADIO ANTENNAS USED FOR TRANSMISSION AND RECEPTION OF RADIO SIGNALS AND COMMUNICATIONS AT VERY HIGH FREQUENCIES
FTD-TT-62-1426/1&2&3&4 N64-22624 15-08

CLIMATOLOGICAL AND AERODYNAMIC CHARACTERISTICS OF RADIO ANTENNAS N64-27332 19-08

MUTUAL COUPLING BETWEEN ELEMENTS OF WIDE APERTURE RADIO LOCATION ANTENNA ARRAY
RRL-246 N64-33234 24-08

RADIO ASTRONOMY
CF LIGHT PRESSURE
RADIOMETRIC MEASUREMENTS IN RADIO ASTRONOMY - SUN, MOON, VENUS, JUPITER, GAS SPECTRA, AND OTHER RADIO EMISSION SOURCES N64-10929 02-28

ION CLOUDS, IONOSPHERIC PERTURBATIONS, AND RADIO ASTRONOMY - BIBLIOGRAPHY
AID-P-63-118 N64-12078 03-07

BIBLIOGRAPHY - ATMOSPHERIC ASPECTS OF RADIO ASTRONOMY
NBS-TN-171 N64-12165 03-08

IONOSPHERIC INTERPRETATION OF RADIO OBSERVATION OF VENUS
NASA-CR-53052 N64-14843 06-29

RADIOASTRONOMICAL OBSERVATIONS OF MOON AND PLANETS N64-15289 07-05

RADIO ASTRONOMICAL OBSERVATION OF NONTHERMAL RADIO SOURCES N64-15932 07-05

RADIO & RADAR ASTRONOMY - CURRENT RESEARCH N64-16558 08-05

BIBLIOGRAPHY OF USSR LITERATURE ON RADIO ASTRONOMY ANTENNAS AND RADIO ASTRONOMY DATA PROCESSING
AID-B-64-11 N64-16779 08-05

FREQUENCY SPECTRUM OF HIGH RESOLUTION RADIO INTERFEROMETERS FOR PROCESSING RADIO ASTRONOMY OBSERVATIONS OF RADIO BRIGHTNESS DISTRIBUTION
AID-T-64-14 N64-17621 09-08

RADIO ASTRONOMY - MILLIMETER AND MICROWAVE TECHNIQUES AND OBSERVATIONS N64-17877 10-05

PHYSICS & ELECTRONICS RESEARCH - SEMICONDUCTORS, INFRARED RADIATION, COMPUTER DESIGN, MASERS, LASERS, RADIO ASTRONOMY, & RADIO METEOROLOGY
ONRL-9-64 N64-20308 13-01

VENUS, SUN, MOON, AND TAU A RADIO-ASTRONOMICAL OBSERVATIONS N64-22091 15-29

OBSERVATIONS, INTERPRETATIONS, AND ASSOCIATIONS OF SOLAR RADIO EMISSIONS - SOLAR RADIO ASTRONOMY
REPT.-64-4 N64-22234 15-05

OBSERVATIONS, INTERPRETATIONS, AND ASSOCIATIONS OF SOLAR RADIO EMISSION - SOLAR RADIO ASTRONOMY
REPT.-64-4 N64-22235 15-05

COSMIC RADIATION, RADIO ASTRONOMY, METEOROLOGY, THERMAL BALANCE OF EARTH, AND SOLAR SAIL STUDY USING SATELLITES
FTD-TT-64-499/1&2&4 N64-23852 16-29

RADIO ASTRONOMY AND STUDY OF VENUS ATMOSPHERE N64-23863 16-05

FEASIBILITY OF USING PRESENT RADIO ASTRONOMY AND RADIOPHYSICS TECHNIQUES FOR EXTRATERRESTRIAL LIFE COMMUNICATION
JPRS-25307 N64-24488 17-08

RADIO ASTRONOMY IN USSR N64-24664 17-05

ABSORPTION OF RADIO WAVES IN ATMOSPHERE BY RADIO

ASTRONOMICAL METHODS N64-27166 19-08

COMMUNICATIONS, RADAR, AND RADIO ASTRONOMY STUDY USING HAYSTACK ANTENNA SYSTEM
ESD-TDR-63-580 N64-27684 19-08

RADIATION PATTERN AND DRIVE POINT IMPEDANCE OF TRAVELING WAVE ANTENNA FOR RADIO ASTRONOMY
NASA-CR-56937 N64-27882 20-08

RADIO ASTRONOMICAL OBSERVATIONS OF VENUS USING TELESCOPE WITH VARIABLE PROFILE ANTENNA AND HIGH RESOLVING POWER
NRL-TRANS-936 N64-29560 21-05

IONOSPHERIC PHYSICS, RADIO PROPAGATION, AERONOMY, RADIO ASTRONOMY, AND SPACE RESEARCH
N64-30765 22-12

QUANTUM PARAMAGNETIC AMPLIFIER IN RADIO ASTRONOMY
NASA-TT-F-8938 N64-30832 22-08

RADIO ASTRONOMY - TELESCOPE POLAR AXIS, POLARIMETER, LUNAR EXPERIMENTS, AND RADIOMETER
RR-R593 N64-32216 23-08

SATELLITE SYSTEM FOR RADIO ASTRONOMICAL MEASUREMENTS AND ANTENNA ANALYSIS AT LOW FREQUENCIES
NASA-TM-X-55089 N64-33563 24-32

RADIOASTRONOMICAL DETERMINATION OF SOLAR RADIO RADIUS BY TIME VARIATIONS OF LUNAR AND SOLAR DISK CONTACTS
NASA-TT-F-8976 N64-33592 24-28

RADIO ATTENUATION

CALCULATED RADIO ATTENUATION DUE TO PLASMA SHEATH ON HYPERSONIC BLUNT-NOSED CONE N64-11900 03-24

RADIO BLACKOUT

IONOSPHERIC POLAR BLACKOUTS AND RADIO COMMUNICATIONS DISTRUBANCES N64-15429 07-12

HIGH FREQUENCY RADIO PROPAGATION CONDITIONS DURING POLAR RADIO BLACKOUTS N64-15431 07-08

BEHAVIOR OF LONG DISTANCE VERY LOW FREQUENCY CIRCUITS DURING POLAR RADIO BLACKOUT
N64-15432 07-08

PROBLEM OF ARCTIC COMMUNICATION DURING POLAR RADIO BLACKOUT DUE TO INTENSE MAGNETIC STORMS
N64-15444 07-08

RADIO BURST

POLARIMETER FOR MEASUREMENT OF SOLAR RADIO BURSTS
CRSR-161 N64-19869 12-28

LARGE SOLAR FLARE SERIES OF JULY 1961 - EVOLUTION OF ACTIVE REGION AND FLARE PHENOMENA FROM H-ALPHA PHOTOGRAPHS AND RADIO BURST RECORDS
N64-30285 22-28

GENERATION MECHANISMS OF RADIO AND X-RAY BURSTS FROM SOLAR FLARES - BREMSSTRAHLUNG FROM SOLAR PLASMA, GYRO AND SYNCHROTRON RADIATION FROM ELECTRONS, AND PLASMA RADIATION
N64-30287 22-28

RADIO COMMUNICATION

MAXIMUM USABLE FREQUENCIES OF RADIO COMMUNICATION LINKS
JPRS-18997 N64-10812 02-08

PROBLEM OF ARCTIC COMMUNICATION DURING POLAR RADIO BLACKOUT DUE TO INTENSE MAGNETIC STORMS
N64-15444 07-08

CONDITION OF RADIO COMMUNICATION IN HIGH AND MIDDLE LATITUDES
FTD-TT-63-443/1&2&4 N64-16421 08-08

MINUTEMAN ICBM HIGH FREQUENCY RADIO COMMUNICATIONS SYSTEM TEST
TZ-3188-1 N64-19915 12-08

SPACE RADIO SYSTEMS FACILITY WITH DIGITAL COMPUTER EQUIPMENT AND LOOP ANTENNA - RADIO COMMUNICATION
SSD-TDR-64-40 N64-22569 15-08

PREDICTION OF IONOSPHERIC STATE FOR SHORT WAVE RADIO COMMUNICATION N64-23850 16-12

RADIO COMMUNICATION WITH SPACE ROCKET
JPRS-25847 N64-27064 19-08

RECEPTION AND PROPERTIES OF RADIO SIGNALS FROM SOVIET SPACECRAFT
NASA-TT-F-8531 N64-27507 19-08

PROBABILITY OF RADIO COMMUNICATION THROUGH SPORADIC E LAYER OF IONOSPHERE
JPRS-26529 N64-30755 22-08

ATMOSPHERICS AND INSTABILITY IN TROPOSPHERE - RADIO COMMUNICATION AND DIRECTION FINDING
N64-31761 23-21

THEORY OF RANDOM PROCESSES AND RADIO COMMUNICATION APPLICATIONS
F-TS-9811/V N64-33504 24-09

RADIO CONTROL

FREE-FLIGHT INVESTIGATION OF RADIO CONTROLLED REENTRY SPACECRAFT WITH TELESCOPIC PARAWING RECOVERY SYSTEM
NASA-TN-D-2044 N64-11236 02-32

RADIO CONTROLLED BALLOON-BORNE ASTRONOMICAL TELESCOPE - STRATOSCOPE II N64-19154 11-15

FREE FLIGHT STUDY OF RADIO-CONTROLLED PARAWING MODEL TO DETERMINE DYNAMIC STABILITY AND CONTROL
NASA-TN-D-2291 N64-25807 17-04

RADIO DIRECTION FINDER

HIGH FREQUENCY WIRE-GRID LENS ANTENNA FOR DIRECTION FINDING
RADC-TDR-63-211 N64-14327 06-09

DIRECTION FINDER SYSTEM USING INTEGRATED CIRCUITS AND ANTENNAS
REPT.-1566-9 N64-21333 14-09

ERROR ANALYSIS OF PHASED ANTENNA ARRAY DIRECTION FINDERS
EDL-E79 N64-22905 16-08

OPTICAL INTERFEROMETER FOR DIRECTION MEASUREMENTS
FRR-AN-050 N64-23417 16-15

RADIO DIRECTION FINDER PRINCIPLES - PHASE ANGLE MEASUREMENT, SUM-AND-DIFFERENCE AMPLITUDE-PHASE MEASUREMENT, AND DIRECTIONAL ANTENNA DISH METHODS
N64-24638 17-09

SPIRAL ANTENNA DIRECTION FINDER TO DETERMINE AZIMUTH AND ELEVATION OF ELECTROMAGNETIC WAVEFRONT
HDL-TR-1221 N64-28796 20-15

RADIO LOCATION METHOD USING TIME DELAY BETWEEN DIRECT TRANSMISSION AND AROUND-THE-WORLD PROPAGATION PATH AND BEARING FROM RADIO DIRECTION FINDER
RRL-214 N64-31183 22-08

RADIO ECHO OBSERVATION

RADIO ECHO OBSERVATION OF METEORS AT 68-CM WAVELENGTH
AD-439354 N64-25882 18-09

RADIO ECHO OBSERVATION OF FIVE NIGHTTIME METEOR SHOWERS
REPT.-341 N64-28679 20-05

RADIO ELECTRONICS

RADIO ELECTRONICS - TRENDS, RELATIONSHIPS WITH OTHER SCIENTIFIC FIELDS, AND RESEARCH COORDINATION
JPRS-24125 N64-18125 10-09

RADIO ELECTRONICS IN BIOLOGY
FTD-TT-63-830/1&2&4 N64-21388 14-16

FLUORESCENCE, POWER TRANSMISSION, AND SOLID STATE PHYSICS N64-26555 18-08

RADIOELECTRONIC EQUIPMENT USED FOR MEDICAL AND BIOLOGICAL INVESTIGATIONS DURING SPACE FLIGHT
JPRS-26081 N64-28062 20-16

RADIOELECTRONIC INSTRUMENTS FOR REACTION BALLISTIC MISSILES
FTD-TT-63-772/1&2&3&4 N64-29986 21-06

RADIO ENGINEERING MEASUREMENTS
JPRS-26461 N64-30920 22-23

RADIO ELECTRONICS - TRAVELING WAVE TUBES, RADIO WAVES, EXCITATION OF SURFACE ELECTROMAGNETIC WAVES, FERRITE PHASE SHIFTERS FOR CENTIMETER BAND, AND PARAMETRIC AMPLIFIERS
JPRS-26492 N64-31351 23-09

TEMPERATURE FIELDS IN RADIO-ELECTRONIC DEVICES
N64-31869 23-09

MULTISTAGE CASCODE AMPLIFIER WITH NONLINEAR LOAD - APPLICATION IN RADIO ELECTRONICS
N64-32913 24-09

RELIABILITY ESTIMATE OF CERAMIC TUBULAR CAPACITORS
N64-32915 24-09

ROLE OF RADIO ELECTRONICS IN SUCCESS OF VOSTOK I SPACECRAFT
FTD-TT-64-409/1 N64-33938 24-32

RADIO EMISSION
RADIOMETRIC MEASUREMENTS IN RADIO ASTRONOMY - SUN, MOON, VENUS, JUPITER, GAS SPECTRA, AND OTHER RADIO EMISSION SOURCES N64-10929 02-28

POLARIZATION OF RADIO EMISSION FROM JUPITER - VARIATIONS ATTRIBUTED TO JOVIAN IONOSPHERIC DISTURBANCES CAUSED BY SOLAR ACTIVITY
NASA-CR-53538 N64-20734 13-29

OBSERVATIONS, INTERPRETATIONS, AND ASSOCIATIONS OF SOLAR RADIO EMISSIONS - SOLAR RADIO ASTRONOMY
REPT.-64-4 N64-22234 15-05

OBSERVATIONS, INTERPRETATIONS, AND ASSOCIATIONS OF SOLAR RADIO EMISSION - SOLAR RADIO ASTRONOMY
REPT.-64-4 N64-22235 15-05

MEASUREMENT OF RADIO EMISSION FROM MOON AT 50-CM WAVELENGTH N64-23784 16-05

RADIO EMISSION MEASUREMENTS - IONOSPHERIC MODEL OF VENUS N64-23785 16-05

PRECISION MEASUREMENTS OF INTENSITY OF RADIO EMISSION AND PARAMETER OF ANTENNAS USING STANDARD RADIO EMISSION FROM DISK COATED WITH ABSORBING MATERIAL N64-23804 16-05

RADIO EMISSION FROM SHOCK WAVES
N64-23859 16-28

LUNAR RADIO EMISSION - PHYSICAL STATE AND NATURE OF LUNAR SURFACE
NASA-TT-F-172 N64-24832 17-05

SHOCK WAVE RADIO EMISSION NEAR EARTH AND IN INTERPLANETARY GAS
NASA-TT-F-8699 N64-25278 17-05

RADIO EMISSION THEORY OF VENUS AND MARS
NASA-TT-F-8923 N64-26541 18-05

PRECISION MEASUREMENTS OF RADIO EMISSION FROM SUN AND MOON IN 4MM WAVELENGTH BAND
N64-27153 19-05

VERY LOW FREQUENCY EMISSION OBSERVATION AT MOSHIRI
N64-27184 19-12

MATHEMATICAL MODEL OF RADIO EMISSION FROM NUCLEAR EXPLOSION
RM-4134 N64-29858 21-23

MEASUREMENT OF SLOWLY VARYING COMPONENT OF SOLAR RADIO EMISSION AT CENTIMETER AND DECIMETER WAVELENGTHS N64-30272 22-28

RELATION OF TYPE IV CONTINUUM EMISSION AND ENERGETIC PARTICLE RADIATION ASSOCIATED WITH SOLAR FLARES N64-30278 22-28

SOLAR RADIO BURST GENERATION - PROPAGATION MODES IN SOLAR PLASMA, RADIATION PROCESSES, AND PLASMA WAVES N64-30288 22-28

THEORETICAL INTERPRETATION OF TYPE III SOLAR RADIO BURST N64-30289 22-28

RELATIONS OF X-RAY RADIATION, PARTICLE EMISSION, AND RADIO EMISSION DURING SOLAR FLARES
N64-30290 22-28

RADIOTELESCOPE OBSERVATIONS OF JUPITER RADIO EMISSION IN 6.5 CM WAVE BAND
NASA-TT-F-8949 N64-30842 22-28

VELOCITY MEASUREMENT OF CORPUSCULAR STREAMS IN SOLAR CORONA BY SOLAR RADIO EMISSION
NASA-TT-F-227 N64-31082 22-28

RADIO EMISSION MEASUREMENTS OF MOON AND JUPITER RELATING TO CASSIOPEIA A
NASA-TT-F-8966 N64-31559 23-05

RADIO EMISSION MEASUREMENTS OF MOON USING MODULATION RADIOMETER WITH PARAMETRIC AMPLIFIER
NASA-TT-F-8768 N64-31561 23-05

SOLAR RADIO EMISSION FOR ANTENNA ALIGNMENT AND COMPUTER PROGRAM FOR SOLAR TRACKING ANGLES
EDL-M690 N64-32561 23-08

RADIO EQUIPMENT
ELECTRONICS - RADIO ENGINEERING & EQUIPMENT
JPRS-22132 N64-12726 04-01

OPTIMAL CONSUMPTION OF ELECTRIC POWER IN ELEMENTS OF RADIO APPARATUS N64-12736 04-09

RADIO ENGINEERING FOR GEODETIC & GEOGRAPHIC WORK BEYOND ARCTIC CIRCLE N64-12746 04-08

METAL INSULATION, FINISHING, PLATING, AND HERMETIC SEALING PROCESSES IN PRODUCTION OF RADIO AND ALLIED ELECTRONIC EQUIPMENT
OTS-61-31204 N64-26352 18-08

RADIO EQUIPMENT ENGINEERING
JPRS-25138 N64-29454 21-09

SUBDIVIDING COMPLEX RADIO EQUIPMENT INTO CONTROLLABLE BLOCKS TO PROMOTE RELIABILITY
N64-29457 21-09

RADIO FREQUENCY
CF FREQUENCY BAND
ANNOTATED BIBLIOGRAPHY OF RADIO FREQUENCY INTERFERENCE TESTING
SB-63-48 N64-11540 03-08

IMPORTANCE OF REENTRY VEHICLE PARAMETERS TO RADIO FREQUENCY ATTENUATION
TDR-269/4810-30/-1 N64-12600 04-09

DISC-LOADED CIRCULAR WAVEGUIDE STRUCTURE USED TO CARRY DEFLECTING RADIOFREQUENCY FIELD
CERN-63-33 N64-12914 04-09

AMPLIFIERS FOR RADIO FREQUENCY SYSTEMS OF PARTICLE ACCELERATORS
LNF-63/64 N64-13175 04-23

RADIOFREQUENCY METHOD OF INFLECTING PARTICLES INTO ORBITS FOR SUBSEQUENT ACCELERATION IN CYCLIC PARTICLE ACCELERATOR
NURA-674 N64-13330 04-23

STRAY MAGNETIC FIELD & RF COUPLER ASYMMETRY TOLERANCES IN SECTOR FOCUSED TWO-MILE ACCELERATOR
SLAC-20 N64-13365 04-23

EFFECT OF SOLAR DISTURBANCES ON LOW RADIOFREQUENCY IONOSPHERIC REFLECTION PROCESS N64-15451 07-28

OPTICAL AND RADIO FREQUENCY COMMUNICATIONS SYSTEMS

N64-15470 07-08

RADIOFREQUENCY MODULATION AND VELOCITY DISTRIBUTIONS IN BRILLOUIN BEAM
N64-16133 08-09

EFFICIENCY INCREASE OF TWO-CAVITY KLYSTRON BY RADIOFREQUENCY POWER CIRCULATION INTO OUTPUT GAP
N64-16135 08-09

RADIOFREQUENCY FILTER TO PROTECT ORDNANCE AGAINST HAZARD OF ELECTROMAGNETIC RADIATION INDUCED FIRING
NAVWEPS-7805, REV. 1 N64-16468 08-09

RADIOFREQUENCY BEHAVIOR OF PLASMA SHEATH
ARL-64-15 N64-16777 08-24

NUMERICAL CALCULATIONS RELATED TO RADIOFREQUENCY PROPERTIES OF PLASMA SHEATH
ARL-64-17 N64-16795 08-24

ASYMPTOTIC BEHAVIOR OF SPECTRA OF RADIO FREQUENCY PULSES WITH LINEAR FREQUENCY MODULATION
AD-421872 N64-17663 09-08

IONIZATION OF HYDROGEN GAS AT LOW PRESSURE BY RADIO FREQUENCY FIELD
AFCRL-63-948 N64-17863 10-23

RADIO FREQUENCY COMPONENT IN RESONANCE PROBE
IPPJ-19 N64-18005 10-24

IMPROVING HIGH POWER RADIO FREQUENCY WINDOWS FOR MICROWAVE TUBES
RADC-TDR-63-510 N64-18032 10-09

STRUCTURAL MATERIAL WITH HIGH ENERGY ABSORPTION CAPABILITY AND TRANSPARENCY TO RADIO FREQUENCY TRANSMISSION
NASA-CR-53479 N64-18098 10-09

DECAY OF DENSITIES OF ION SPECIES IN AFTERGLOWS FOLLOWING PULSED RADIO FREQUENCY DISCHARGES IN ATMOSPHERIC GASES
AFCRL-64-107 N64-18182 10-24

ELECTRIC FIELD ATTENUATION MEASUREMENTS FOR RADIO FREQUENCY SHIELDED EQUIPMENT
NASA-TM-X-51534 N64-18290 10-09

MICROWAVE AND RADIO FREQUENCY INDUCTION COUPLED PLASMA TORCH N64-19833 12-24

RADIO FREQUENCY REJECTION FILTER FOR CONTINUOUS WAVE INTERFERENCE IN COMMUNICATION SYSTEMS
RADC-TDR-64-104 N64-20033 13-09

AUDIO PULSE CANCELLATION FILTER - RADIO FREQUENCY COMMUNICATION APPLICATION
RADC-TDR-64-105 N64-20034 13-08

DIRECT CURRENT-RADIO FREQUENCY SUBSTITUTION ERROR IN DUAL ELEMENT BOLOMETER MOUNTS
NBS-7934 N64-20437 13-15

RADIO FREQUENCY INTERFERENCE AT ORBITAL ALTITUDES AND IN-FLIGHT MONITORING INSTRUMENTATION DESIGN
SSD-TDR-64-33 N64-20465 13-08

MATCHING OF WAVEGUIDE COUPLER FOR RADIO FREQUENCY SEPARATOR DEFLECTING STRUCTURE
CERN-64-14 N64-20620 13-09

RADIO FREQUENCY SPECTRUM PARAMETERS FOR INSTRUMENTATION TIMING SYSTEMS
IRIG-105-63 N64-21600 15-08

RADIO FREQUENCY ATTENUATION MEASURING TECHNIQUES
TM-1259 N64-21839 15-15

RING RESONATOR TESTING OF HIGH POWER RADIO FREQUENCY WAVEGUIDE WINDOWS
RADC-TDR-63-32 N64-22269 15-09

RADIO FREQUENCY INTERFERENCE - TRANSMITTER SPECTRUM SIGNATURE DATA AND RADIATED FIELD STRENGTH DATA FOR TRANSMITTER EMISSIONS
N64-22827 16-09

ANALYSIS OF AIRBORNE RADIO FREQUENCY INTERFERENCE
N64-22828 16-09

RADIO FREQUENCY MASS SPECTROMETRY - UPPER ATMOSPHERE INVESTIGATIONS
AID-P-64-39 N64-23022 16-23

WIDTH OF SPECTRAL LINE OF LOW FREQUENCY AND RADIO FREQUENCY OSCILLATORS N64-23806 16-08

ANNOTATED BIBLIOGRAPHY ON RADIO FREQUENCY TRANSMISSION THROUGH PLASMA SHEATH OF REENTRY VEHICLES
SB-64-10 N64-23884 16-24

RADIO FREQUENCY PROBING TECHNIQUE FOR MEASUREMENT OF LOW PLASMA ELECTRON DENSITY
PIBMRI-1165-63 N64-23955 16-24

RADIO FREQUENCY INTERFERENCE ANALYSIS OF ELECTRONIC COMPONENTS & CIRCUITS
REPT.-2719-1 N64-24133 16-25

RADIO FREQUENCY PHASE DEVIATION STABILITY REQUIREMENTS FOR BALANCED CONTINUOUS WAVE RADAR REFLECTOMETERS N64-24305 17-08

RADIO FREQUENCY ELECTRONIC BLOCK MANUFACTURING
ASD-7-861-4 N64-25632 17-09

LOW NOISE, LINEAR, VARIABLE GAIN, RADIO FREQUENCY AMPLIFIER TUBE
AD-438401 N64-25856 18-09

SOLID STATE DEVICES - SILICON TRANSISTOR AND VOLTAGE TUNED OSCILLATOR FOR RADIO FREQUENCY GENERATOR
QPR-3 N64-25994 18-25

RADIO FREQUENCY BROADBAND AMPLIFIER FOR DRIVING REACTIVE LOADS
CERN-64-27 N64-26559 18-09

QUANTUM PARAMAGNETIC AMPLIFIERS FOR RADIO BAND
N64-27152 19-08

GENERATION OF RADIO FREQUENCY POWER OUTPUTS IN CADMIUM SULFIDE CRYSTALS WITHOUT USE OF TRANSDUCERS
RADC-TDR-64-246 N64-28542 20-09

RADIO FREQUENCY NOISE GENERATION FROM SPACE VEHICLES
NASA-CR-58489 N64-28760 20-23

RADIOFREQUENCY RADIATION AND PARTICLE ACCELERATION FROM SOLAR FLARE FILAMENTS DUE TO ROTATIONAL COLLECTIVE MOTION OF ELECTRONS OR IONS
N64-30291 22-28

CONVERTING INCIDENT R-F POWER INTO DIRECTED MOTION OF ACCELERATED EXHAUST STREAM BY CONTINUOUS MICROWAVE MAGNETIC ACCELERATOR
NASA-CR-54134 N64-30604 22-04

OPERATION PRINCIPLES AND ADVANTAGES OF L-BAND FORWARD-WAVE AMPLIFIER OF PULSED TYPE RADIO FREQUENCY
PT-470 N64-31892 23-09

RADIO FREQUENCY COMPONENTS, SPACE & EARTH SURFACE TECHNIQUES & EQUIPMENT, ANALYSIS, RADAR, AND ENGINEERING
ESD-TDR-64-336 N64-32094 23-08

LOW-FREQUENCY, LOW NOISE MICROPHONES
N64-32259 23-15

MEASUREMENT OF DIFFUSIVE SEPARATION OF ARGON AND NITROGEN BY RADIO FREQUENCY MASS SPECTROMETER
NASA-RP-321 N64-32639 23-12

ORBIT DATA AND TRANSMITTING FREQUENCIES FOR CURRENTLY ORBITING SATELLITES
NASA-TM-X-54783 N64-33046 24-31

ORBIT DATA AND TRANSMITTING FREQUENCIES FOR CURRENTLY ORBITING SATELLITES
NASA-TM-X-51984 N64-33175 24-31

DOCUMENTATION OF SATURN PROJECT RADIO FREQUENCY & TELEMETRY CHECKOUT PROCEDURES FOR TRACKING FACILITY
NASA-CR-58964 N64-33193 24-08

VERTICAL RADIO FREQUENCY TEST RANGE FOR ANTENNA RADIATION MEASUREMENT
NASA-TM-X-55094 N64-33566 24-08

PHYSICAL LIMITATION FACTORS ENCOUNTERED IN GENERATING VERY HIGH POWER FOR RADIO FREQUENCY AMPLIFIER TUBES
ESD-TDR-63-568 N64-33977 24-09

RADIO FREQUENCY DISCHARGE
S ELECTRON EMISSION

RADIO INTERFERENCE
NOISE SUPPRESSOR FOR REDUCING CONTINUOUS WAVE AND PULSED RADIO INTERFERENCE
RADC-TDR-64-80 N64-20030 13-08

RADIO FREQUENCY REJECTION FILTER FOR CONTINUOUS WAVE INTERFERENCE IN COMMUNICATION SYSTEMS
RADC-TDR-64-104 N64-20033 13-09

RADIO FREQUENCY INTERFERENCE AT ORBITAL ALTITUDES AND IN-FLIGHT MONITORING INSTRUMENTATION DESIGN
SSD-TDR-64-33 N64-20465 13-08

MEANS OF CONTROLLING UNDESIRED RADIATION FOR HORN, PARABOLIC REFLECTOR, AND LUNEBERG LENS ANTENNAS FOR REDUCING RADIO FREQUENCY INTERFERENCE
RADC-TDR-63-549 N64-21071 14-09

TECHNIQUES AND DEVICES FOR SUPPRESSING RADIO INTERFERENCE
RADC-TDR-62-631 N64-21088 14-08

ELECTROMAGNETIC INTERFERENCE MEASURING INSTRUMENT FOR MICROWAVE RANGE
W-1-63-621R3 N64-21335 14-08

RADIO FREQUENCY INTERFERENCE CONTROL & DETECTION - ELECTROMAGNETIC COMPATIBILITY N64-22810 16-09

ERROR ANALYSIS OF RADIO FREQUENCY INTERFERENCE IN DIGITAL TWO-PHASE COHERENT COMMUNICATION SYSTEMS N64-22814 16-09

RADIO FREQUENCY INTERFERENCE - TRANSMITTER SPECTRUM SIGNATURE DATA AND RADIATED FIELD STRENGTH DATA FOR TRANSMITTER EMISSIONS N64-22827 16-09

ANALYSIS OF AIRBORNE RADIO FREQUENCY INTERFERENCE N64-22828 16-09

COMPUTER AUTOMATED INTERFERENCE PREDICTION DATA PROCESSING SYSTEM N64-22834 16-09

RADIO INTERFERENCE MEASURING SET
AL-TDR-64-30 N64-25821 17-09

SILICON SWITCH FOR REDUCTION OF RADIO-FREQUENCY INTERFERENCE IN WEAPON SYSTEM CIRCUITRY
NOLTR-64-43 N64-26563 18-09

LOCAL OSCILLATOR DEVELOPMENT, COMPONENT EVALUATION, AND DESIGN PLAN FOR RADIO INTERFERENCE MEASURING INSTRUMENT
REPT.-2 N64-28227 20-08

LOW FREQUENCY CURRENT PROBE TECHNIQUE FOR MEASURING CONDUCTED RADIO FREQUENCY INTERFERENCE
R-304 N64-29380 21-15

ELECTROMAGNETIC MEASURING INSTRUMENT FOR RADIO INTERFERENCE - MICROWAVE ASSEMBLY, MULTIPLEXER AND FILTERS, DATA HANDLING, AND CIRCUIT DESIGN
QTR-4 N64-30592 22-08

POLARIZATION EFFECT ON RADIO SIGNALS SCATTERED BY METEOR TRAILS
NASA-TT-F-8962 N64-30855 22-05

FREQUENCY ASSIGNMENT OF TELEMETRY TRANSMITTERS FOR MINIMUM RADIO INTERFERENCE OPERATION
FAA-TM-13-9-63-T N64-31325 22-08

ANTENNA ARRAYS AND RADIO INTERFERENCE REDUCTION
REPT.-1522-3 N64-31688 23-08

ACTIVE ELECTROSTATIC DISCHARGER WITH LOW RADIO FREQUENCY INTERFERENCE FOR FIXED AND ROTARY WING AIRCRAFT
DCR-131 N64-31931 23-04

FREQUENCY ASSIGNMENT FOR REDUCTION OF RADIO INTERFERENCE - ELECTROMAGNETIC COMPATIBILITY
USAELRDL-TR-2381 N64-32449 23-08

INTERFERENCE IMMUNITY OF DIVERSITY-RECEPTION SYSTEM WITH ANTENNA SWITCHING N64-32919 24-08

RADIO INTERFEROMETER
RADIOINTERFEROMETER PHASE-CHANNEL COMBINER FOR SPACE SURVEILLANCE SYSTEM N64-16172 08-08

FREQUENCY SPECTRUM OF HIGH RESOLUTION RADIO INTERFEROMETERS FOR PROCESSING RADIO ASTRONOMY OBSERVATIONS OF RADIO BRIGHTNESS DISTRIBUTION
AID-T-64-14 N64-17621 09-08

METEOROLOGICAL PHENOMENA AND ERRORS IN RADIO INTERFEROMETER TRACKING SYSTEMS
CRL-2818-1, PT. 1 N64-27477 19-08

METEOROLOGICAL PHENOMENA AND RELATION TO ERRORS IN RADIO INTERFEROMETER TRACKING SYSTEMS
CRL-2818-1, PT. 2 N64-27478 19-08

RADIO NAVIGATION
COMPARATIVE STUDY OF RADIO NAVIGATION SYSTEMS
AGARDOGRAPH-63 N64-13150 04-10

NAVIGATION EQUATIONS FOR DETERMINATION OF RADIO DOPPLER SIGNALS FROM EARTH SATELLITES
TM-3241-69-141 N64-18389 10-22

ESTIMATING FIX ACCURACY OF RADIO NAVIGATION SYSTEM
NEL-1188 N64-20374 13-22

RADIOELECTRONIC INSTRUMENTS FOR REACTION BALLISTIC MISSILES
FTD-TT-63-772/1&2&3&4 N64-29986 21-06

FLIGHT TESTS OF OMEGA VERY LOW FREQUENCY LONG-RANGE HYPERBOLIC RADIO NAVIGATION SYSTEM
NRL-MR-1543 N64-30739 22-08

RADIO NOISE
CLASSIFICATION OF NATURALLY OCCURRING VERY LOW FREQUENCY NOISES - SPECTROGRAM EXAMPLES OF RADIO NOISE & WHISTLERS
NBS-TN-166 N64-13905 05-12

ATMOSPHERIC RADIO NOISE AT BYRD STATION, ANTARCTICA - MEASUREMENT, SOURCES, AND ABSORPTION PHENOMENA
RAD-TR-63-46 N64-16850 08-12

MEASUREMENTS OF RADIO NOISE PRODUCED BY HYPERSONIC PLASMA SHEATH
AD-429411 N64-18354 10-24

GENERATION OF RADIO NOISE BY PLASMA OSCILLATIONS N64-19496 12-24

RECORDING ATMOSPHERIC VERY LOW FREQUENCY RADIO NOISES AND DISTINGUISHING THEIR SOURCES N64-19691 12-12

EXTREMELY LOW FREQUENCY RADIO NOISE AND ALTITUDE ESTIMATES FOR LOWER EDGE OF IONOSPHERE N64-19705 12-12

CHANGES IN VLF RADIO NOISE ACCOMPANYING SOLAR FLARE AND ASSOCIATED SUDDEN IONOSPHERIC DISTURBANCE
AD-428169 N64-20491 13-28

ATMOSPHERIC RADIO NOISE MEASUREMENTS
LAFE-13 N64-22013 15-08

RADIO NOISE FROM EXTRAHIGH VOLTAGE TRANSMISSION LINES N64-22850 16-09

RADIO NOISE NEAR MADRID

AFCRL-64-530 N64-26180 18-08

MEASUREMENTS OF RADIO NOISE FROM HIGH ALTITUDE ROCKET PROBE
TR-1 N64-29803 21-08

RADIO NOISE SPECIFICATION TESTING OF ELECTRONIC FLASHERS FOR AIRCRAFT LIGHTS
RAE50P023 N64-32475 23-08

RADIO OBSERVATION
RADIO OBSERVATIONS OF HYDROXYL ABSORPTION SPECTRUM FROM CASSIOPEIA A
NASA-CR-52852 N64-11379 02-28

RADIO OBSERVATION OF HYDROXYL RADICAL IN ABSORPTION SPECTRUM OF CASSIOPEIA A
N64-15157 07-05

RADIO AND RADAR STUDIES OF LUNAR AND PLANETARY IONOSPHERES, ATMOSPHERES, AND SURFACES
NASA-CR-53205 N64-17592 09-05

BIBLIOGRAPHY OF SATELLITE ORBIT DATA FROM RADIO OBSERVATIONS N64-21731 15-32

VENUS, SUN, MOON, AND TAU A RADIO-ASTRONOMICAL OBSERVATIONS N64-22091 15-29

RADIO OBSERVATION OF SOLAR FLARES AT CENTIMETER & METER WAVELENGTHS N64-30271 22-28

DIMENSIONS OF IONOSPHERIC IRREGULAR FORMATIONS BY OBSERVATIONS ON COSMOS I, II, AND XI SATELLITES IN COHERENT FREQUENCIES
NASA-TT-F-8945 N64-30838 22-12

AEROLOGICAL AND METEOROLOGICAL OBSERVATIONS - RADIOSONDE ATMOSPHERIC NETWORK N64-32330 23-21

RADIO OBSERVATION OF JUPITER
NASA-CR-59202 N64-33220 24-05

RADIO PROPAGATION
CF IONOSPHERIC PROPAGATION
ANNOTATED BIBLIOGRAPHY OF RADIO FREQUENCY INTERFERENCE TESTING
SB-63-48 N64-11540 03-08

IMPORTANCE OF REENTRY VEHICLE PARAMETERS TO RADIO FREQUENCY ATTENUATION
TDR-269/4810-30/-1 N64-12600 04-09

AMPLITUDE & PHASE OF RADIO WAVES PROPAGATING ALONG FLAT INHOMOGENEOUS EARTH SURFACE
N64-12728 04-08

DISC-LOADED CIRCULAR WAVEGUIDE STRUCTURE USED TO CARRY DEFLECTING RADIOFREQUENCY FIELD
CERN-63-33 N64-12914 04-09

AMPLIFIERS FOR RADIO FREQUENCY SYSTEMS OF PARTICLE ACCELERATORS
LNF-63/64 N64-13175 04-23

RADIOFREQUENCY METHOD OF INFLECTING PARTICLES INTO ORBITS FOR SUBSEQUENT ACCELERATION IN CYCLIC PARTICLE ACCELERATOR
MURA-674 N64-13330 04-23

CLASSIFICATION OF NATURALLY OCCURRING VERY LOW FREQUENCY NOISES - SPECTROGRAM EXAMPLES OF RADIO NOISE & WHISTLERS
NBS-TN-166 N64-13905 05-12

IONOSPHERIC & RADIO PROPAGATION DATA IN INDIA FOR AUG 1962
RRC-A87 N64-14446 06-12

IONOSPHERIC & RADIO PROPAGATION DATA COLLECTED IN INDIA
RRC-A88 N64-14447 06-12

EFFECT OF SOLAR DISTURBANCES ON RADIO COMMUNICATIONS
AGARDOGRAPH-59 N64-15426 07-08

SUDDEN IONOSPHERIC DISTURBANCES AND THEIR EFFECT ON RADIO COMMUNICATION N64-15427 07-12

IONOSPHERIC POLAR BLACKOUTS AND RADIO COMMUNICATIONS DISTRUBANCES N64-15429 07-12

RADIO PROPAGATION CONDITIONS DURING INTENSE POLAR CAP ABSORPTION EVENTS N64-15430 07-12

HIGH FREQUENCY RADIO PROPAGATION CONDITIONS DURING POLAR RADIO BLACKOUTS N64-15431 07-08

INFLUENCE OF SOLAR DISTURBANCE ON VERY LOW FREQUENCY RADIO WAVE PROPAGATION OVER LONG, HIGH LATITUDE PATH N64-15433 07-08

INFLUENCE OF SOLAR FLARES ON TRANSARCTIC HIGH FREQUENCY RADIO PROPAGATION N64-15434 07-08

HIGH FREQUENCY RADIO PROPAGATION OVER EAST-WEST PATHS DURING PERIODS OF MAGNETIC DISTURBANCE
N64-15440 07-12

SOLAR EFFECTS ON RADIO WAVE PROPAGATION
N64-15441 07-08

RECURRENCE TENDENCY OF RADIO PROPAGATION DISTURBANCES DURING PERIOD OF HIGH SOLAR ACTIVITY
N64-15446 07-20

HIGH FREQUENCY RADIO PROPAGATION DISTURBANCES OVER NORTH ATLANTIC PATH N64-15449 07-08

CIRCUIT RELIABILITY, FREQUENCY UTILIZATION, AND FORECASTING IN HIGH FREQUENCY COMMUNICATIONS BAND
N64-15450 07-08

STATISTICAL STUDY TO ASCERTAIN VALIDITY OF AMR RADIO CIRCUIT PERFORMANCE SUMMARIES FOR HF RADIO OUTAGE
TDR-269/A4306/-6 N64-16877 08-08

SURVEILLANCE TECHNIQUES, RADIO PROPAGATION, AND PLASMA PHYSICS
ESD-TDR-64-574 N64-17629 09-01

NEW METHOD OF SOLVING RADIO WAVE PROPAGATION PROBLEMS IN MAGNETOIONIC MEDIA - IONOSPHERIC FOCUSING IN TERRESTRIAL MAGNETIC FIELD
AFCRL-63-945 N64-17861 10-12

SATELLITE ORBIT CALCULATION USING PROPAGATION DELAY FROM GROUND TRACKING STATION
N64-18229 10-23

SATELLITE COMMUNICATIONS - PROPAGATION, ANTENNA AND RECEIVER FACTORS, COMPUTER USE, AND GROUND STATION SITING
DRTE-1122 N64-18241 10-08

SATELLITE COMMUNICATIONS - PROPAGATION, ANTENNA AND RECEIVER FACTORS, COMPUTER USE, AND GROUND STATION SITING N64-18242 10-09

RADIO PROPAGATION EFFECTS ABOVE 10 GC/S AND ANTENNA NOISE ABOVE 1000 MC/S - INCREASED IMPORTANCE OF TROPOSPHERIC EFFECTS
N64-18243 10-08

RADIO PROPAGATION PROBLEMS AND PARAMETERS AFFECTING SIGNAL TRANSMISSION
AFCRL-64-54 N64-18634 11-08

GEOMAGNETIC K-INDICES, IONOSPHERIC ABSORPTION, VLF RADIO WAVE PROPAGATION, TRANSIT IVA RECORDING, VISIBLE AURORAL INDEX, AND MAGNETIC PULSATIONS
N64-19321 12-12

PROPAGATION OF EXTREMELY LOW AND VERY LOW FREQUENCY RADIO WAVES
AGARDOGRAPH-74 N64-19676 12-01

NONLINEARITY OF LOWER IONOSPHERE DETECTED BY RADIO PROPAGATION STUDIES N64-19679 12-12

VERY LOW FREQUENCY RADIO PROPAGATION FROM LOFTI I SATELLITE N64-19683 12-12

PROPAGATION OF LONG WAVELENGTH TERRESTRIAL RADIO WAVES N64-19685 12-09

OBLIQUE INCIDENCE PULSE MEASUREMENTS AT 100-KC

FOR SEPARATING GROUND WAVE & SKY WAVE TIME MODES
N64-19686 12-08

DIURNAL VARIATION IN VERY LOW FREQUENCY RADIO PROPAGATION OVER SINGLE MODE PATHS
N64-19692 12-12

THEORY OF VERY LOW FREQUENCY RADIO PROPAGATION BETWEEN SPHERICAL CONDUCTING EARTH AND CONCENTRIC ANISOTROPIC IONOSPHERE N64-19694 12-08

VERY LOW FREQUENCY RADIO PROPAGATION IN IONOSPHERE
N64-19696 12-08

PHASE CHANGES IN VERY LOW FREQUENCY RADIO PROPAGATION DURING AND AFTER NUCLEAR EXPLOSION
N64-19697 12-12

VERY LOW FREQUENCY RADIO PROPAGATION AND CLOCK SYNCHRONIZATION N64-19698 12-08

RADIO PROPAGATION EFFECTS AFTER HIGH ALTITUDE NUCLEAR BURST DUE TO ABNORMAL IONIZATION
RM-4037-PR N64-20297 13-08

NUMERICAL COMPUTATIONS FOR SEARCH OF LONG RANGE RAYS INVOLVING CONVENTIONAL PROPAGATION MODES
N64-20313 13-08

PHASE CONSTANT MEASUREMENTS FOR ROCK STRATA RADIO PROPAGATION
AFCRL-64-64 N64-20346 13-12

PROPAGATION AND SCATTERING OF RADIO WAVES IN TURBULENT MAGNETO-IONIC MEDIA
R64SD17 N64-21062 14-08

PHYSICS, ELECTRONICS, & MEASUREMENT STANDARDS, CHEMISTRY & PROPERTIES OF MATERIALS, APPLIED MATHEMATICS, RADIO PROPAGATION, AND OTHER RESEARCH
NBS-MISC.-PUBL.-255 N64-21512 15-23

SPECTRAL ANALYSIS OF NONTHERMAL RADIO PROPAGATION
AD-434038 N64-21671 15-05

DIGITAL COMPUTER PROGRAM USING MONTE CARLO METHOD FOR COMPUTING MULTIPLE SCATTERED RADIO FIELDS IN TROPOSPHERE
CRL-272-4 N64-21710 15-08

RADIO PROPAGATION IN TRADE WIND INVERSION DUCT-NEPTUNE PROJECT
CRL-272-2 N64-21988 15-08

AIR-TO-AIR AND GROUND-TO-AIR RADIO PROPAGATION AND TRANSMISSION
REPT.-6 N64-22525 15-08

GEOMAGNETISM, IONOSPHERE, AND RADIO WAVE PROPAGATION RESEARCH
FTD-TT-62-1330/1&2&4 N64-23848 16-12

PHASE DEVIATIONS IN RADIO PROPAGATION
NBS-TN-206-3 N64-23910 16-12

IONOSPHERIC AND RADIO PROPAGATION DATA FOR APRIL 1963
RRC-A95 N64-27373 19-12

IONOSPHERIC AND RADIO PROPAGATION DATA FOR MARCH 1963
RRC-A94 N64-27374 19-12

RADIO WAVE PROPAGATION STUDIES - RESEARCH IN IONOSPHERICS, EARTH GRAVITATIONAL FIELD, RADIO METEOROLOGY, MAGNETISM, IONOSONDE ROCKETS AND SATELLITES N64-28768 20-08

ANTENNA WINDOW - TECHNIQUE FOR RADIO PROPAGATION THROUGH PLASMA SHEATH
BSR-985 N64-29761 21-08

POLAR HIGH FREQUENCY RADIO PROPAGATION
RR-64-16-46 N64-29832 21-08

IONOSPHERIC PHYSICS, RADIO PROPAGATION, AERONOMY, RADIO ASTRONOMY, AND SPACE RESEARCH
N64-30765 22-12

RADIO LOCATION METHOD USING TIME DELAY BETWEEN DIRECT TRANSMISSION AND AROUND-THE-WORLD PROPAGATION PATH AND BEARING FROM RADIO DIRECTION FINDER
RRL-214 N64-31183 22-08

UPPER ATMOSPHERE RADIO PROPAGATION BY FIREFLY PROJECT EXPLOSIVE PLASMA CLOUDS
N64-31398 23-12

TROPOSPHERIC RADIO PROPAGATION ON OVERSEA PATH IN GULF OF MEXICO
NBS-8429 N64-32075 23-08

WORLD-WIDE ATMOSPHERIC RADIO DUCT MEASUREMENT AND PREDICTION N64-32787 24-21

PROPAGATION OF VLF RADIO WAVES ACROSS AURORAL ZONE
SU-SEL-64-051 N64-33017 24-08

RADIO RECEPTION
INTERFERENCE IMMUNITY OF DIVERSITY-RECEPTION SYSTEM WITH ANTENNA SWITCHING N64-32919 24-08

RADIO SIGNAL
DIRECTIONAL SCATTERING OF ULTRAHIGH FREQUENCY RADIO SIGNALS BY METEOR TRAILS
JPRS-17555 N64-10563 01-05

INDIAN OCEAN AREA CRUSTAL STRUCTURE STUDY USING SEISMO-ACOUSTIC RADIOBUOYS
JPRS-18425 N64-10764 02-12

ELECTRON DENSITY FLUCTUATION MEASUREMENTS IN IONOSPHERIC D-REGION BY VERY LOW FREQUENCY RADIO SIGNALS
NEL-1178 N64-12361 03-12

ATTENUATION OF RADIO SIGNALS PASSING THROUGH THE SHOCK LAYER OF LARGE REENTRY VEHICLES
NASA-TM-X-51027 N64-12399 03-08

NAVIGATION EQUATIONS FOR DETERMINATION OF RADIO DOPPLER SIGNALS FROM EARTH SATELLITES
TM-3241-69-141 N64-18389 10-22

PHASE DEVIATION IN VERY LOW FREQUENCY RADIO SIGNALS AFTER IONOSPHERIC REFLECTION
N64-19695 12-08

TERMINAL SITES FOR TRANSOCEANIC DUCT PROPAGATION MEASUREMENTS
AFCRL-63-862, PT. II N64-21908 15-08

POLARIZATION MEASUREMENTS DURING SCINTILLATION OF RADIO SIGNALS FROM TRANSIT IVA SATELLITE
N64-24006 16-08

ABSORPTION OF RADIO WAVES IN ATMOSPHERE BY RADIO ASTRONOMICAL METHODS N64-27166 19-08

DETERMINATION OF ELECTRON DENSITY OF UPPER IONOSPHERE USING RADIO SIGNALS FROM SATELLITES
N64-29058 21-12

MEASUREMENT OF RADIO SIGNAL PARAMETERS BY OBSERVING OUTPUT SIGNAL OF OPTIMAL RECEIVER THROUGH SPECIFIED LEVEL N64-29475 21-09

F REGION IRREGULARITIES STUDIED BY SCINTILLATION OF SIGNALS FROM SATELLITES N64-32527 23-12

RADIOWAVE ABSORPTION EVENTS IN AURORAL ZONE - ANALYSIS OF MAGNETOMETER, RIOMETER, AND ALL-SKY CAMERA DATA
NASA-CR-59342 N64-33810 24-28

RADIO SOURCE
LINEAR POLARIZATION MEASUREMENTS OF DECIMETER WAVELENGTH RADIATION FROM SMALL DIAMETER RADIO SOURCES N64-14128 05-08

RADIO ASTRONOMICAL OBSERVATION OF NONTHERMAL RADIO SOURCES N64-15932 07-05

ENERGY REQUIREMENTS OF COSMIC RADIO SOURCES
NASA-CR-58133 N64-26807 18-28

QUASI-STELLAR RADIO SOURCES

NASA-RP-273 N64-28654 20-05

ASTRONOMICAL PHOTOGRAPHY OF GALAXIES IDENTIFIED WITH RADIO SOURCES
AD-442604 N64-30015 21-05

GALACTIC AND EXTRAGALACTIC RADIO SOURCE FLUX DENSITIES
AD-442603 N64-30016 21-05

RIGHT ASCENSION OF RADIO SOURCES MEASURED BY STEERABLE PARABOLOID ANTENNAS USED AS INTERFEROMETERS
AD-444164 N64-33606 24-08

CATALOG OF LINEAR POLARIZATION CHARACTERISTICS OF RADIO SOURCES IN WAVELENGTH RANGE 10 TO 21 CM
AD-444165 N64-33644 24-08

RADIO SPECTROSCOPY
SINGLE-BAND CRYSTAL DIODE MODULATOR AS LOCAL DIODE OSCILLATOR IN ELECTRON PARAMETRIC RESONANCE SPECTROMETER
FTD-TT-64-317/1&2&4 N64-24325 17-15

RADIO STAR SIGNAL
FLUX DENSITY VARIATION OF THE RADIO SOUCE CASSIOPEIA-A N64-10029 01-05

GALACTIC RADIATION AND OCCULTATIONS OF RADIO STARS
PR-1 N64-28089 20-05

SCINTILLATION-RATE SPECTRUM OF RADIO STAR AND SATELLITE SIGNALS IN AURORAL ZONE
AFCRL-64-743 N64-31737 23-12

RADIO SIGNAL SCINTILLATION FROM CASSIOPEIA A DURING SOLAR ECLIPSE
AFCRL-64-662 N64-32629 23-28

RADIO TELEGRAPHY
TECHNIQUES OF RADIO TELEGRAPHY
JPRS-23500 N64-18054 10-08

RADIO TELEMETRY
MEDICAL RADIO TELEMETRY AND ELECTRONICS
JPRS-22551 N64-12356 03-16

VERY HIGH FREQUENCY RADIOTELEMETRY IN SIMULATED ANIMAL INTERIOR ENVIRONMENT, AND TRANSPARENCY OF HUMAN BODY TO RADIO WAVES
SAM-TDR-63-80 N64-16642 08-16

RADIO TELEMETRY AS METHOD OF BIOINSTRUMENTATION FOR STUDY OF PHYSIOLOGY IN SPORTS, WORK, AND DISEASE
JPRS-23910 N64-18092 10-08

RADIO TELEMETRY FOR UPPER ATMOSPHERE SOUNDING ROCKETS
ER8-653 N64-18468 10-08

MINIATURE RADIOTELEMETRIC APPARATUS FOR RECORDING PHYSIOLOGICAL RESPONSES
FTD-TT-63-1029/1&2&4 N64-21544 15-16

EVALUATION OF RADIOTELEMETRY SYSTEMS WITH TIME SHARING CONTROLS N64-24509 17-08

RADIO TELEMETRY STUDY OF PH OF DIGESTIVE SYSTEM
NASA-TT-F-9026 N64-27367 19-16

APPLICATION OF ELECTRONIC EQUIPMENT TO AEROSPACE MEDICINE AND BIOLOGY - RADIOTELEMETRY
JPRS-24682 N64-30234 22-16

RADIOTELEMETRY STUDY OF DIGESTIVE FUNCTIONS N64-30237 22-16

FREQUENCY ASSIGNMENT OF TELEMETRY TRANSMITTERS FOR MINIMUM RADIO INTERFERENCE OPERATION
FAA-TN-13-9-63-T N64-31325 22-08

USE OF RADIOTELEMETRY TO STUDY GASTRIC EVACUATION
NASA-TT-F-9060 N64-31338 22-16

HYDROMETEOROLOGICAL NETWORK - AUTOMATION AND RADIOTELEMETRY N64-32331 23-21

RADIO TELESCOPE
RADIO TELESCOPE OBSERVATION OF SOLAR CORONA, AND TRACKING STARS OF POLAR REGION N64-15268 07-05

PHYSICAL CONDITIONS IN SOLAR CORONA ABOVE ACTIVE REGION REVEALED BY RADIO TELESCOPE, AND MODEL OF CORONA N64-15269 07-28

RADIOTELESCOPE IN ORBIT - STRUCTURAL DYNAMICS, THERMAL STRESS, AND RADIATION PATTERN IN FAR FIELD
NASA-CR-55669 N64-15547 07-09

DESCRIPTION OF VERY LARGE DIAGONAL RADIO TELESCOPE
FTD-TT-63-110/1 N64-16966 09-15

ERRORS IN PARABOLIC ANTENNAS USED IN RADIO TELESCOPES N64-20510 13-09

MECHANICAL STRUCTURE OF RADIO TELESCOPE
PR-19 N64-24978 17-05

RADIO TELESCOPES
PR-20 N64-30026 21-15

RADIOTELESCOPE OBSERVATIONS OF JUPITER RADIO EMISSION IN 6.5 CM WAVE BAND
NASA-TT-F-8949 N64-30842 22-28

NEAR INFRARED POLARIMETER OBSERVATIONS OF PLANETS BY RADIO TELESCOPE
AFCRL-64-693 N64-32477 23-05

RADIO TRANSMISSION
INVESTIGATION OF IONOSPHERIC CHARGED PARTICLES - ELECTRON DENSITY CALCULATIONS FROM RADIO TRANSMISSIONS OF COSMOS SATELLITES
AID-P-64-9 N64-16461 08-08

RADIO TRANSMISSION AND GEOPHYSICAL STUDIES WITH COSMOS SATELLITES
AID-P-64-5 N64-16462 08-08

IONOSPHERE EFFECTS ON POLARIZATION AND DOPPLER SHIFT OF RADIO TRANSMISSIONS FROM SATELLITES FOR ELECTRON CONTENT MEASUREMENTS N64-18160 10-12

FISHBOWL NUCLEAR EXPLOSION EFFECTS ON VERY LOW FREQUENCY TRANSMISSION OF OMEGA SYSTEM
NEL-1207 N64-21173 14-08

PERFORMANCE OF SINGLE & MULTIPLE VOICE RADIO TRANSCRIBERS WORKING UNDER THREE SPEECH-TO-NOISE RATIOS
USAPRO-TRN-135 N64-21741 15-14

INDIVIDUAL DIFFERENCE IN TRANSCRIBING VOICE RADIO MESSAGES EMBEDDED IN ATMOSPHERIC NOISE
TRN-137 N64-21856 15-08

RADIATION FIELDS ASSOCIATED WITH ANTENNAS FOR SHORT WAVE RADIO TRANSMISSION IN LAND-SEA AREAS
S75-R37 N64-32109 23-08

SLEDBORNE MULTICOUPLER DESIGN COMBINING SIX TRANSMITTERS TO ONE ANTENNA FOR USE IN VERY HIGH FREQUENCY RANGE
ARI-PUBL.-185 N64-32394 23-08

RADIO WAVE
SA GROUND WAVE
SA SOLAR RADIO WAVE
ELECTROMAGNETIC WAVE SCATTERING IN TROPOSPHERE - RADIO WAVE SCATTERING FORMULAS
JPRS-21717 N64-10203 01-12

PLASMA RESONANCE IN INCOHERENT SCATTERING OF RADIO WAVES FROM FULLY IONIZED PLASMA
RM-3696-PR N64-10246 01-24

RADAR INDICATING/RECORDING DEVICE FOR STUDY OF RADIO WAVE DISPERSION BY METEOR TRAILS N64-10811 02-05

AMPLITUDE & PHASE OF RADIO WAVES PROPAGATING ALONG FLAT INHOMOGENEOUS EARTH SURFACE N64-12728 04-01

TROPOSPHERIC RADIO WAVE PROPAGATION
AFCRL-63-713 N64-13664 05-08

CANONICAL TRANSFORMATIONS IN ANGULAR-MOMENTUM REPRESENTATION OF LOW ENERGY SPHERICAL NUCLEI - QUASI-PARTICLE INTERACTIONS
UCRL-11080 N64-14164 05-23

NUMERICAL STUDY OF REGGE PARAMETERS IN POTENTIAL SCATTERING OF RADIO WAVES
UCRL-11096 N64-14165 05-23

POSSIBLE CLASS OF GALACTIC RADIO SOURCES - ROTATIONAL INSTABILITY OF LOW MASS STARS
NASA-CR-55340 N64-14179 06-05

INFLUENCE OF ORBITAL MOTION OF EARTH ON DISTANCE AND VELOCITY DETERMINATION OF COSMIC OBJECTS BY RADIO WAVE PROPAGATION
MH-TRANS-456 N64-14717 06-05

USE OF RADIO WAVES IN ELECTRICAL GEOLOGIC EXPLORATION N64-15415 07-12

CONE ANGLE MEASUREMENTS OF RADIO-WAVE ARRIVAL USING SPREAD-F ECHOES
CAL-RA-1684-P-1 N64-16893 08-12

INCOHERENT SCATTERING OF RADIO WAVES FROM HOT PLASMA USING QUANTUM ELECTRODYNAMICAL COMPUTING METHODS
RM-3440-PR N64-17300 09-24

NOMOGRAPH MEASUREMENTS OF ARRIVAL ANGLE AND RADIO WAVE BEARINGS OF PHASE DIFFERENCE BETWEEN THREE STATIONS
E15 N64-19084 11-08

EFFECTS OF IONOSPHERIC IRREGULARITIES IN F-2 LAYER ON BACKSCATTER OF RADIO WAVES
AFCRL-64-108 N64-19416 12-08

COLLISION FREQUENCY VALUES OBTAINED FROM RADIO-WAVE INTERACTION IN ALASKA
WAGR-148 N64-19672 12-08

PROPAGATION OF EXTREMELY LOW AND VERY LOW FREQUENCY RADIO WAVES
AGARDOGRAPH-74 N64-19676 12-01

OBLIQUE REFLECTION OF CW LOW FREQUENCY RADIO WAVES FROM IONOSPHERE N64-19687 12-08

EFFECT OF IONOSPHERE ON POLARIZATION OF VERY LOW AND EXTREMELY LOW FREQUENCY RADIO WAVES N64-19701 12-12

PROPAGATION OF WHISTLERS N64-20765 14-12

RADIO AND X-RAY EMISSION OF SOLAR FLARES
SRN-50 N64-21755 15-28

RADIO WAVE PROPAGATION
FTD-TT-62-582/1&2 N64-22387 15-08

MEASUREMENT OF RADIO WAVE ABSORPTION COEFFICIENT IN ATMOSPHERE AT DECIMETER WAVELENGTH N64-23786 16-05

GEOMAGNETISM, IONOSPHERE, AND RADIO WAVE PROPAGATION RESEARCH
FTD-TT-62-1330/1&2&4 N64-23848 16-12

GEOMAGNETIC PARAMETERS AND FREQUENCY-HEIGHT CURVES IN IONOSPHERE - RADIO WAVE PROPAGATION N64-23849 16-12

RANGE MEASUREMENT WITH RADIO WAVES USING PHASE SHIFT, FREQUENCY MODULATION, AND PULSED RADIATION METHODS N64-24637 17-09

REFRACTION AND DOPPLER SHIFT OF RADIO WAVES RADIATED BY ARTIFICIAL EARTH SATELLITES IN THREE-DIMENSIONAL HETEROGENEOUS IONOSPHERE
FTD-TT-64-384/1&2&4 N64-26122 18-08

POWER SPECTRAL DENSITY ESTIMATES OF FADING OF HIGH FREQUENCY RADIO WAVES
D1-82-0244 N64-26549 18-08

EXCITATION OF LONGITUDINAL WAVES IN PLASMA BY TRANSVERSE RADIO WAVES
FTD-TT-64-174 N64-26885 18-24

ABSORPTION OF RADIO WAVES IN ATMOSPHERE BY RADIO ASTRONOMICAL METHODS N64-27166 19-08

RADIO WAVE PROPAGATION STUDIES - RESEARCH IN IONOSPHERICS, EARTH GRAVITATIONAL FIELD, RADIO METEOROLOGY, MAGNETISM, IONOSONDE ROCKETS AND SATELLITES N64-28768 20-08

PHASE AND AMPLITUDE MEASUREMENTS OF RADIO WAVE INTERACTION
AFCRL-64-451 N64-29836 21-12

GALACTIC AND EXTRAGALACTIC RADIO SOURCE FLUX DENSITIES
AD-442603 N64-30016 21-05

IONOSPHERIC REFLECTION COEFFICIENT & GROUP HEIGHT OF REFLECTION FOR LOW FREQUENCY RADIO WAVES CALCULATED BY FULL WAVE METHOD
AFCRL-64-611 N64-30546 22-12

GEOMAGNETISM, IONOSPHERIC ABSORPTION, AURORAL RADAR ECHOS, RADIO WAVE PROPAGATION, MICROPULSATIONS & EARTH CURRENTS
AD-602884 N64-30565 22-12

CENTIMETER AND MILLIMETER RADIO WAVE ABSORPTION BY ATMOSPHERIC WATER VAPOR
NASA-TT-F-8960 N64-30853 22-12

LUNAR SURFACE TEMPERATURE DUE TO REFLECTION OF COSMIC RADIO EMISSION
NASA-TT-F-8964 N64-30857 22-28

FARADAY ROTATION OF COSMIC RADIO WAVE POLARIZATION PLANE - SOLAR SYSTEM CORONA OF IONIZED GAS
NASA-TT-F-8965 N64-30858 22-28

NOMOGRAM FOR MODULUS DETERMINATION AND PHASE OF REFLECTION COEFFICIENT OF RADIO WAVE N64-31353 23-09

RADIO WAVE DIFFRACTION AND PROPAGATION
JPRS-26487 N64-32226 23-08

RADIO WAVE REFLECTION COEFFICIENT FOR SMOOTH INHOMOGENEOUS LAYER N64-32228 23-08

SIMULATION OF TRANSIENT RADIO WAVE PROPAGATION BY APPROXIMATION METHOD N64-32229 23-08

PROPAGATION OF VLF RADIO WAVES ACROSS AURORAL ZONE
SU-SEL-64-051 N64-33017 24-08

RADIOACTIVE CONTAMINATION
ANATOMICAL & PHYSIOLOGICAL DATA OF GASTRO-INTESTINAL TRACT FOR CALCULATING LEVELS OF RADIOACTIVE CONTAMINATION IN FOOD CHAIN
EUR-489.F N64-16927 09-16

NATURAL RADIOACTIVITY OF SOIL IN RELATION TO CONTAMINATION OF EARTH ATMOSPHERE BY NUCLEAR WEAPONS TESTING
JPRS-23912 N64-17735 09-12

RADIATION PROTECTION STANDARDS TO REDUCE HAZARD OF RADIOACTIVE CONTAMINATION OF FOOD
REPT.-5 N64-26757 18-16

RADIOLOGICAL DECONTAMINATION OF SPECIFIC SURFACES UNDER COLD WEATHER AND THAWING CONDITIONS
NDL-TR-58 N64-27931 20-21

APPENDICES OF STUDY ON RADIOLOGICAL DECONTAMINATION UNDER COLD WEATHER AND THAWING CONDITIONS
NDL-TR-58, PT. 2 N64-27932 20-21

DISTRIBUTION AND BIOLOGICAL EFFECTS OF RADIOACTIVE CONTAMINATION OF SEAS AND OCEANS
JPRS-26002 N64-31108 22-12

MONITORING SYSTEM FOR RADIOACTIVE FISSION PRODUCT GASES FROM DISSOLUTION OF IRRADIATED URANIUM IN RADIOCHEMICAL SEPARATIONS PROCESS
DP-908 N64-32794 24-15

AIR TRAFFIC WARNING PROGRAM FOR RADIOACTIVE CONTAMINATION PROJECTION - PROJECT SHOAL
VUF-1017 N64-33353 24-22

RADIOACTIVE DATING
RADIOACTIVE DATING OF METEORITES
N64-25057 17-05

TEKTITE ORIGIN - DATING FROM NUMBER OF URANIUM FISSION TRACKS
NASA-TT-F-8944 N64-33064 24-29

SURFACE CHEMISTRY AND CORROSION WITH GASEOUS, LIQUID, AND SOLID PHASES - RADIOACTIVE DATING
N64-33892 24-07

RADIOACTIVE DEBRIS
SA STAR DUST PROJECT
COMPUTER PROGRAM FOR DETERMINATION OF LETHAL DEBRIS DISTRIBUTION - PROBABILITY
TOR-269/A4306/-5 N64-18190 10-23

STAR DUST PROJECT METHOD OF PREPARING MATHEMATICAL MODEL OF ATMOSPHERIC MIXING AND CALCULATION FOR DEPOSITION PATTERNS OF RADIOACTIVE DEBRIS
DASA-1307 N64-18272 10-21

DISTRIBUTION OF FISSION PRODUCT DEBRIS IN SOUTHERN CONJUGATE AREA FROM HIGH ALTITUDE NUCLEAR TEST
NASA-CR-53592 N64-18428 10-12

INTERPLANETARY DUST AND DEBRIS NEAR EARTH AND IMPINGEMENT ON EARTH N64-18460 10-05

RADIOACTIVE DECAY
ACTIVATION ANALYSIS WITH RADIOISOTOPES HAVING COMPLEX FORMATION AND DECAY SCHEMES
EUR-467.F N64-13145 04-23

STRUCTURE OF HEAVY NUCLEI - WEAK BRANCHING IN ALPHA DECAY
UCRL-11208 N64-13218 04-23

ALPHA DECAY OF PROTACTINIUM ISOTOPES
UCRL-11082 N64-14070 05-23

HALF-LIFE DETERMINATIONS FOR PROMETHIUM-143 & 144
USNRDL-TR-684 N64-14708 06-23

ALPHA PARTICLE AND PROTON BEAMS IN RADIATION THERAPY OF PITUITARY GLAND TUMORS AND ADENOMA
N64-15205 07-16

HYDROLYSIS AND RESIDUE ADSORPTION METHODS FOR SEPARATION OF PROTACTINIUM-231 & PROTACTINIUM-231 DECAY PRODUCTS N64-15661 07-07

ALPHA DECAY SCINTILLATION COUNTER FOR URANIUM SURFACE CONTAMINATION MEASUREMENT OF NUCLEAR REACTOR FUEL
HW-78268 N64-15998 07-23

RADIOACTIVE DECAY OF NUCLEI BY FISSION AND EMISSION OF PROTONS
JPRS-23996 N64-18139 10-23

RELATION BETWEEN MODES OF RADIOACTIVE DECAY OF CESIUM 134 N64-25558 17-23

RADIOACTIVE ELEMENT
EXCRETION RATE OF RADIACTIVE SODIUM FROM RATS AND RABBITS FOR INTERNAL RADIATION DOSES CALCULATION
N64-12434 04-16

SEPARATION AND PURIFICATION OF CARBON-13, RADIOACTIVE ELEMENTS STUDIES, AND CALORIMETRY
MLM-1152 N64-15854 07-23

ELECTRODE STUDY OF REGENERATIVE FUEL CELL
NASA-CR-53011 N64-15967 07-06

NUCLEAR PHYSICS RESEARCH IN ISOTOPES, SEPARATION, AND INSTRUMENTATION OF RADIOACTIVE ELEMENTS
MLM-1160 N64-16266 08-23

RADIOACTIVE TRACER RESULT ON MIXING OF POLAR & EQUATORIAL STRATOSPHERES N64-24478 17-21

ELASTIC AND INELASTIC SCATTERING OF DEUTERONS FROM RADIOACTIVE NICKEL - TABULATED DIFFERENTIAL CROSS SECTION
ORNL-3637 N64-24684 17-23

BENEFICIAL USES OF RADIATION EFFECTS - POWER, ILLUMINATION, RADIOGRAPHY, TELETHERAPY, AND TRACER TECHNOLOGY
REIC MEMO-25 N64-24967 17-14

ATOMIC STRUCTURES, RADIOACTIVE ATOMS, MASERS, AND SOLID STATE PHYSICS
CU-3-64-SC-90789 N64-25319 17-23

SCATTERING OF PROTONS BY RADIOACTIVE OXYGEN
UCRL-7648 N64-25357 17-23

RADIOACTIVE ELEMENTS - SEPARATION, HALF-LIFE, PARTICLE SOURCE AND COUNTING
MLM-1170 N64-32826 24-07

CONDUCTIVE ADHESIVES AND RADIOACTIVE ELEMENT RESEARCH - PARTICLE SOURCES, ISOTOPE SEPARATION, AND KRYPTON-85 COUNTING
MLM-1203 N64-32827 24-07

RADIOACTIVE FALLOUT
CERIUM 141 AND CERIUM 144 IN RADIOACTIVE FALLOUT AT BOMBAY - SAMPLING METHOD, CHEMICAL PROCEDURES, AND LEVELS DATA
AEET-AM-36 N64-10125 01-23

RADIOACTIVE FALLOUT DEPOSITION AND WASHOUT COMPUTATIONS BASED ON GENERALIZED GAUSSIAN PLUME MODEL
ORO-599 N64-10158 01-23

RADIOACTIVE TUNGSTEN IN ATMOSPHERE FROM THERMONUCLEAR BOMB
JPRS-17679 N64-10485 01-21

RADIOACTIVE FALLOUT IN CONVECTIVE STORMS
HNS-24 N64-11963 03-21

AIR, FALLOUT, AND SURFACE WATER RADIOACTIVITY MEASUREMENTS AT MANY POSTS IN EUROPE FOR EURATOM
EUR-461.D,F,I,N N64-12137 03-23

RADIOACTIVE NUCLIDE LEVELS IN FALLOUT, MILK, FOOD, WATER, AND UPPER-AIR SAMPLES - BIBLIOGRAPHY
HASL-142 N64-13329 04-16

IDENTIFYING AND MEASURING ARTIFICIAL AND NATURAL RADIOACTIVE CONTAMINANTS IN BIOSPHERE
AEC-TR-6049 N64-14408 08-23

NUCLEAR RADIATION SAFETY - FALLOUT PREDICTION TECHNIQUES N64-14570 06-21

RAPID ANALYSIS FOR CESIUM-137 IN RADIOACTIVE FALLOUT BY USING AMMONIUM PHOSPHOMOLYBDATE AND BETA RADIATION MEASUREMENT
EUR-438.F N64-14760 06-23

MEASUREMENT OF SIMULATED & ACTUAL RADIOACTIVE FALLOUT FROM GROUND & UNDERGROUND STRUCTURES
CEX-59.78 N64-14799 06-23

APPLICATION OF RADIOCHEMISTRY TO DEFINITION OF PROPERTIES OF FALLOUT AND DEBRIS FROM NUCLEAR EXPLOSIONS N64-15111 07-07

EFFECT OF RADIONUCLIDE FRACTIONATION ON EXPOSURE DOSE RATE FROM FALLOUT
USNRDL-TR-715 N64-17785 09-23

ENVIRONMENTAL RADIOACTIVITY IN INDIA FROM NUCLEAR WEAPON TESTS - DATA ON GAMMA EMITTING ISOTOPES CESIUM 137 AND STRONTIUM 90 IN MILK AND FOOD
AEET-AM-39 N64-20621 13-23

COMPUTER PROGRAM FOR TRAJECTORIES AND PROPERTIES OF SLURRY PARTICLE FALLOUT FROM SEA WATER SURFACE NUCLEAR EXPLOSIONS
USNRDL-TR-724 N64-20861 14-23

DIGITAL DISPLAY AERIAL SURVEY METER FOR MEASUREMENT OF RADIOACTIVE FALLOUT
OCD-2131-F N64-30055 21-15

FALLOUT DATA - RADIONUCLIDE LEVEL IN SOILS, MILK, TAP WATER, & AIR SAMPLES - STRONTIUM 90 LEVEL IN DIETS & BONES OF CHILDREN, AND PLUTONIUM 238 CONCENTRATION IN AIR
HASL-149 N64-31624 23-12

SOCIOLOGICAL SURVEY OF CIVIL DEFENCE TECHNIQUES - PUBLIC FALLOUT SHELTERS
AD-603125 N64-32529 23-14

RADIOACTIVE ISOTOPE
SA CERIUM 137
SA CERIUM 144
SA CESIUM 137
SA COBALT 60
SA HELIUM 3
SA IODINE 131
SA IRON 57
SA MANGANESE 56
SA PHOSPHORUS 32
SA PLUTONIUM-239
SA RUBIDIUM 86
SA SODIUM-24
SA STRONTIUM 90
SA URANIUM-233
SA URANIUM-235
COMPOUNDS USED FOR ELIMINATION OF RADIOACTIVE IRON-59 IN ORGANISM N64-10038 01-16

POLYVINYL PYRROLIDINE EFFECTIVENESS IN REDUCING RETENTION OF RADIOISOTOPES IN BODY N64-10039 01-16

REMOVING RADIOACTIVE ISOTOPES FROM ORGANISMS BY CHEMICAL MEANS - CHELATE AND OTHER COMPLEXES
JPRS-18775 N64-10456 01-16

CLOSED SOURCES OF GAMMA RADIATION - RADIOACTIVE COBALT, ZINC, CESIUM, & IRIDIUM
JPRS-20129 N64-10512 01-07

MOTION DETERMINATION OF ALUMINUM MELTS USING RADIOACTIVE ISOTOPES DURING CRYSTALLIZATION
JPRS-19372 N64-10586 01-18

RADIOISOTOPES FOR ELECTROSTATIC PROPULSION OF SMALL SPACE VEHICLES N64-11397 02-27

RADIOACTIVE ISOTOPES AND CONSTRUCTION INDUSTRY - MATERIALS SCIENCE
AEC-TR-5632 N64-11401 02-23

RADIOACTIVE ISOTOPE CONTENT AND CONCENTRATION IN EFFLUENT GASES FROM WATER BOILER REACTOR STACK
LANS-2937 N64-12112 03-10

BIOLOGICAL EFFECT OF LOW DOSES OF RADIOACTIVE ISOTOPES - SODIUM-24 AND PHOSPHORUS-32 IN RATS, RABBITS, AND DOGS N64-12433 04-16

GAMMA RADIOACTIVITY OF RATS AND WATER PHANTOMS BY COBALT-60 AND CERIUM-144 N64-12435 04-16

MATHEMATICAL ANALYSIS OF EXCRETION CURVES FOR RADIOACTIVE ISOTOPES OF COBALT, SODIUM, CERIUM, BROMINE, AND RUBIDIUM N64-12438 04-16

ACTIVATION ANALYSIS WITH RADIOISOTOPES HAVING COMPLEX FORMATION AND DECAY SCHEMES
EUR-467.F N64-13145 04-23

DIAGNOSIS AND TREATMENT OF CONTAMINATION BY RADIOACTIVE ISOTOPES
JPRS-22610 N64-13320 04-16

PASSAGE OF TRYPAN BLUE, PRONTOSIL, AND RADIOACTIVE CHROMIUM IN CITRATE BUFFER SOLUTION THROUGH BLOOD-BRAIN BARRIER IN HYPOXIA AND HYPOCAPNIA N64-14589 06-16

ADHESIVES, ISOTOPE SEPARATION, PURIFICATION, PROPERTIES, AND VARIATION METHOD ANALYSIS OF CALORIMETRY DATA - REACTOR PHYSICS
MLM-1148 N64-14755 06-23

RADIOACTIVE ISOTOPE SEPARATION, HALF-LIFE, WASTES, AND HAZARDS, AND ANALYSES BY CALORIMETRY, MASS SPECTROMETRY, AND HEAVY METAL CHEMISTRY
MLM-1151 N64-14756 06-23

RADIOACTIVE ISOTOPES IN ATMOSPHERE, PRECIPITATION SCAVENGING OF RADIOACTIVE AEROSOLS, & TURBULENT DIFFUSION OF AEROSOL - NUCLEAR METEOROLOGY
AEC-TR-6128 N64-14870 06-21

RADIOACTIVE ISOTOPE SEPARATION AND POWER REACTOR FUELS
TID-4202 N64-15394 07-23

RADIOACTIVE ISOTOPES PRODUCED BY RADIOCHEMICAL REACTOR LABORATORY
JPRS-23279 N64-15729 07-23

PREPARING URANIUM 232 BY IRRADIATION OF RADIO-ACTIVE THORIUM ISOTOPES
MLM-1182 N64-16556 08-23

CHEMISTRY - CHEMICALS AND RADIOACTIVE ISOTOPIC CONTAMINANTS IN AIR AND URINE
SC-4783/RR/ N64-17268 09-07

RAPID RADIOCHEMICAL SEPARATION OF RADIOISOTOPES WITH SHORT HALF LIVES, AND PRODUCTION BY NEUTRON IRRADIATION OF SHORT-LIVED METASTABLE ISOMERS
NYO-10174 N64-17732 09-07

USE OF RADIOACTIVE ISOTOPES IN HYDROGEN HEAT TRANSFER ROCKET FOR SPACE PROPULSION
ASD-TDR-63-787 N64-18047 10-27

CONDUCTIVE ADHESIVES, RADIOACTIVE ISOTOPES AND ELEMENTS, ALPHA AND NEUTRON SOURCES, AND CALORIMETRY
MLM-1176 N64-18083 10-07

DOPPLER EFFECT OF RADIOACTIVE ISOTOPES IN FAST REACTORS
EUR-530.F N64-18151 10-23

CONDUCTIVE ADHESIVES, HALF-LIVES AND SEPARATION OF RADIOACTIVE ISOTOPES, NEUTRON AND ALPHA SOURCES, AND LOW LEVEL TRITIUM COUNTING
MLM-1177 N64-18405 10-23

ADHESIVES AND PLASTICS, RADIOACTIVE ELEMENTS, ISOTOPE SEPARATION, ALPHA AND NEUTRON SOURCE DEVELOPMENT, AND ANALYSIS
MLM-1179 N64-18406 10-23

FISSION RESONANCE INTEGRALS OF URANIUM AND PLUTONIUM RADIOACTIVE ISOTOPES
AECL-1910 N64-18461 10-23

RADIOACTIVE ISOTOPE STUDY OF INFLUENCE OF REFRACTORY METAL ON SELF-DIFFUSION OF IRON IN IRON ALLOYS
FTD-MT-63-40/1&2 N64-18752 11-25

GAMMA RADIATION TO DETERMINE SHIELDING EFFECTIVENESS OF SPACE VEHICLES AND USE OF RADIO ISOTOPES FOR FRACTURE STUDIES
TID-7689 N64-18797 11-23

OBTAINING FRACTURING INFORMATION BY USE OF RADIOISOTOPES N64-18799 11-23

DATA ON ACCUMULATION COEFFICIENTS OF RADIOACTIVE ISOTOPES IN MARINE PLANTS AND ANIMALS
JPRS-24227 N64-18969 11-16

RADIATION AND RADIOISOTOPES EFFECTS ON BIOLOGICAL SYSTEMS - ANNOTATED BIBLIOGRAPHY
TID-3098, BK. 1 N64-19035 11-16

PRODUCTION AND DISTRIBUTION OF RADIOACTIVE IODINE IN MILK AND HUMAN THYROID
UCRL-7716 N64-19097 11-16

FIRE EXPOSURE TEST OF WOODEN JACKET SHIELD FOR RADIOISOTOPE TRANSPORTATION CONTAINER
COO-275 N64-19146 11-26

ANNOTATED BIBLIOGRAPHY OF RADIOISOTOPE & RADIATION EFFECTS ON LIFE PROCESSES
TID-3098/INDEX/ N64-19236 11-16

RADIOISOTOPE FUELED AUXILIARY POWER UNIT FOR ADVANCED RECONNAISSANCE SPACECRAFT
MND-1123 N64-20195 13-06

RADIOACTIVE ISOTOPE FUELED UNIT AS AUXILIARY POWER SOURCE
MND-P-1175 N64-20196 13-06

RADIOACTIVE ISOTOPE FUELED UNIT AS AUXILIARY POWER SOURCE
MND-P-3001 N64-20197 13-06

RADIOACTIVE ISOTOPE SHIELDING DESIGN MANUAL - DOSE RATE AND SHIELDING CURVES
NYO-10721 N64-20519 13-27

MEDICINE, BIOLOGY, & AGRICULTURE STUDIES USING RADIOACTIVE ISOTOPES AND NUCLEAR RADIATIONS
AEC-TR-6298 N64-20823 14-16

ASEPTIC INFLAMMATION OF CORNEA UNDER INFLUENCE OF BETA RADIATION FROM RADIOACTIVE THALLIUM
JPRS-24936 N64-21285 14-16

BIOLOGICAL CONTAMINATION BY RADIOACTIVE ISOTOPES
FTD-TT-63-664/1 N64-22049 15-16

RADIOISOTOPIC DETECTION OF MICROBIAL CONTAMINATION PRESENT IN JET FUEL
ADR-09-08A-63.1 N64-22129 15-26

RADIOISOTOPE PROCEDURES MANUAL
ORNL-3633 N64-22233 15-07

POTENTIALITIES OF RADIOACTIVE ISOTOPE ELECTROSTATIC PROPULSION SYSTEM
AIAA PAPER-63-048A N64-22252 15-27

PARAMETRIC STUDY OF DIRECT NUCLEAR ELECTROGENERATOR CELLS USING BETA EMITTING RADIOISOTOPE CERIUM-144
AIAA PAPER-63-048B N64-22259 15-23

RADIOISOTOPIC BIOCHEMICAL PROBE FOR DETECTING EXTRATERRESTRIAL LIFE
NASA-CR-55318 N64-22756 16-16

DISTRIBUTION OF BONE MARROW IN SKELETON OF HUMAN BODY, RABBIT, AND RAT, USING RADIOACTIVE IRON ISOTOPE AND POSITRON SCINTILLATION CAMERA
N64-22853 16-16

METABOLISM OF COMPOUNDS OF RADIOACTIVE BROMINE ISOTOPE IN THYROID GLANDS OF RATS
N64-22869 16-16

RADIOISOTOPIC EVALUATION OF ORGANIC RESIDUE AND CONTAMINATION LEFT BY PROPRIETARY SOLVENTS
ADR-08-13-63.1 N64-22970 16-07

SUBMARINE SAND MOVEMENT STUDY BY GAMMA EMITTING TRACER - SILVER RADIOACTIVE ISOTOPE
N64-23147 16-12

RADIOACTIVE CHEMICALS IN OCEAN WATER
N64-23323 16-12

RADIOISOTOPES IN CLINICAL MEDICINE - LOCALIZATION OF PLACENTA IN GASTROINTESTINAL TRACT
N64-24007 16-16

RADIOACTIVE ISOTOPES IN SALT SPRAY TESTING FOR EVALUATION OF METAL SURFACE PROTECTIVE COATINGS
PA-TM-1271 N64-25299 17-18

RADIOACTIVE ISOTOPES FOR MEASUREMENT OF CAVITATION-EROSION DAMAGE ON METALS
NASA-CR-58072 N64-27829 19-18

RADIOISOTOPE FUELED THERMIONIC DIODE POWER SYSTEM
NASA-TM-X-55064 N64-28899 20-06

ANNOTATED BIBLIOGRAPHY OF RADIOISOTOPES IN WORLD INDUSTRY
TID-6613, SUPPL. 5 N64-29779 21-07

SILVER CHLORIDE & IODIDE AS SEQUESTERING AGENTS FOR RADIOACTIVE IODINE N64-30036 21-16

DETERMINATION OF KINETICS OF DIFFUSION AND OSMOSIS USING RADIOACTIVE ISOTOPES N64-30395 22-16

CHEMICAL PROCESSING OF RADIOACTIVE ISOTOPES - PROCEDURES MANUAL
BNL-864/T-347/ N64-30750 22-07

GAUGES USING RADIOACTIVE ISOTOPES TO MEASURE SEDIMENT CONCENTRATION IN WATER AND TO MEASURE ATMOSPHERIC DENSITY
NYO-10220 N64-30772 22-12

CONFERENCE REPORTS ON USING RADIOACTIVE ISOTOPES AND NUCLEAR RADIATION IN MECHANICS, GEOLOGY AND CHEMISTRY
AEC-TR-6390 N64-31024 22-23

APPLICATION OF NUCLEAR RESONANCE SENSING TO MEASUREMENT OF MECHANICAL MOTION
R63SD317 N64-31158 22-23

REACTOR TECHNOLOGY - FUEL ELEMENTS, RADIOISOTOPE AND RADIATION APPLICATIONS, CORROSION RESISTANCE, AND GAS COOLING
BMI-1681/DEL./ N64-31375 23-25

STABILITY OF THYROID PROTEIN WITH REACTIVE IODINE AS RADIOACTIVE TRACE ELEMENT N64-32011 23-07

EFFECTIVE SECTION BETWEEN COMPETING DISINTEGRATION SCHEMES FOR RADIOACTIVE ISOTOPE OF BARIUM PRODUCED BY SYNCHROCYCLOTRON BOMBARDMENT OF CESIUM
N64-32012 23-23

METHODS AND INSTRUMENTS FOR METEOROLOGICAL OBSERVATIONS - RADIATION AND OPTICAL MEASUREMENT - AIRCRAFT AND RECORDING INSTRUMENTS - RADIOACTIVE ISOTOPES
JPRS-26742 N64-32328 23-21

RADIOACTIVE ISOTOPES FOR HYDROMETEOROLOGICAL MEASUREMENTS - NUCLEAR RADIATION PROBLEMS
N64-32333 23-21

EXPONENTIAL MODEL FOR DETERMINING ABSORBED DOSAGE OF RADIOISOTOPE IN HUMAN BODY
FTD-TT-63-923/1&2 N64-32662 23-16

ISOTOPE ABUNDANCE RATIO OF CARBON 13-CARBON 12 IN STARS
NASA-CR-59217 N64-33125 24-05

COMPUTER PROGRAM FOR ANALYSIS OF GAMMA RAY SPECTRA FOR IDENTIFICATION OF RADIOISOTOPES IN NEUTRON ACTIVATION ANALYSIS OF METEORITES
NASA-CR-58970 N64-33205 24-23

ULTRASONIC CLEANING PROCESSES USING RADIOISOTOPES TO CONTAMINATE TEST SPECIMENS
NASA-CR-59376 N64-33905 24-17

TOXICOLOGY OF RADIOACTIVE IRON
FTD-TT-64-599/1 N64-33943 24-16

RADIOACTIVE MATERIAL
TOXICOLOGY OF RADIOACTIVE MATERIALS
JPRS-21511 N64-10037 01-16

PARTICLE AGGLOMERATION EFFECT ON PENETRATION BY RADIOACTIVE MATERIAL OF FILTERS USED WITH NUCLEAR REACTOR DOUBLE CONTAINMENT SYSTEMS
ORNL-RSIC-1 N64-10210 01-23

RADIATION EXPOSURE CONTROL METHODS AND RADIOACTIVE MATERIAL DOSAGES
JPRS-18522 N64-10575 01-16

SAFETY HAZARDS CONTROL - RADIOACTIVE MATERIALS, FIRE DETECTION, & EXPLOSIVE HANDLING
UCRL-7450 N64-11096 02-01

SMALL & LARGE SIZE RADIOALBUMIN AGGREGATES FOR PHOTOSCANNING LIVER, SPLEEN, LUNGS, & OTHER ORGANS
UCLA-519 N64-13004 04-16

STATIC & DYNAMIC TESTS ON LEAD-SHIELDED STEEL CASK USED FOR RAIL SHIPMENT OF RADIOACTIVE FUEL
DP-843 N64-13372 04-33

INSTALLATION FOR X-RAY STRUCTURAL ANALYSIS OF RADIOACTIVE MATERIALS AND RADIATION DISRUPTION IN ALLOY AND METAL CRYSTAL LATTICES
N64-13739 05-23

CORRECTIONS FOR LONGEVITY COUNTING RATES OF TOTAL RADIOACTIVE SAMPLE BY COMPUTER
HW-76279 N64-14057 05-23

PARA-ORTHO HYDROGEN CONVERSION BY CATALYSTS INCLUDING RADIOACTIVE MATERIALS
RTD-TDR-63-4106 N64-14308 06-19

TRANSPORTATION OF HIGHLY RADIOACTIVE MATERIAL
NYO-9774 N64-14883 06-10

SURVEILLANCE OF RADIOACTIVE MATERIALS IN AIR, WATER, AND FOOD
HW-79652 N64-14924 06-16

DISTRIBUTION OF RADIOACTIVE MATERIAL AND HEAT FLOW THROUGH EARTH CRUST
NASA-CR-55852 N64-16722 08-12

HIGH PERFORMANCE SOLVENT EXTRACTION MACHINE FOR APPLICATION TO VERY HIGHLY RADIOACTIVE SOLUTIONS
ORNL-3533 N64-18248 10-07

INFLUENCE OF RADIOACTIVE THYMIDINE ON X-RADIATION EFFECTS ON DESOXYRIBONUCLEIC ACID SYNTHESIS
N64-19150 11-16

RULES FOR TRANSPORTATION AND SHIPMENT OF RADIOACTIVE MATERIALS
AEC-TR-6315 N64-20477 13-16

PHOTOSCANNING OF HUMAN LUNG WITH MACROAGGREGATES OF HUMAN SERUM RADIOALBUMIN
UCLA-12-521 N64-20672 13-16

RADIATION EFFECTS & RADIOACTIVE MATERIALS - FORECASTING STUDIES IN HYDROMETEOROLOGY
JPRS-24860 N64-24799 17-21

TRANSPORT RATE OF RADIOACTIVE AEROSOLS IN TROPOSPHERE DUE TO NUCLEAR EXPLOSIONS IN NORTHERN HEMISPHERE
N64-24800 17-21

GLASS AS CONTAINER FOR RADIOACTIVE MATERIALS
HW-81862 N64-25646 17-23

SAFETY MANUAL FOR PERSONNEL HANDLING RADIOACTIVE MATERIALS
AD-438147 N64-27263 19-16

EFFECTIVENESS OF DOUBLE CONTAINMENT VESSELS FOR HOLDUP OF AIRBORNE RADIOACTIVE MATERIALS IN EVENT OF REACTOR ACCIDENT
ORNL-3657 N64-30063 21-23

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TID-3578 N64-30805 22-10

RADIOACTIVE NUCLIDE
ANIMAL ABSORPTION OF RADIONUCLIDES
EUR-368.D N64-12474 04-07

RADIOACTIVE NUCLIDE LEVELS IN FALLOUT, MILK, FOOD, WATER, AND UPPER-AIR SAMPLES - BIBLIOGRAPHY
HASL-142 N64-13329 04-16

INTERACTION OF RADIOACTIVE NUCLIDES WITH AEROSOLS
UR-636 N64-15403 07-23

ACTIVATION ANALYSIS OF RADIOISOTOPIC NUCLIDES PRODUCED BY NEUTRONS, PROTONS, AND ALPHA & GAMMA RAY REACTIONS
AEET/ANAL/28 N64-15731 07-23

EFFECT OF RADIONUCLIDE FRACTIONATION ON EXPOSURE DOSE RATE FROM FALLOUT
USNROL-TR-715 N64-17785 09-23

NEUTRON AND CHARGED PARTICLE INDUCED REACTIONS, MOSSBAUER EFFECT INVESTIGATIONS, ATOMIC BEAM STUDIES, AND DECAY OF SHORT-LIVED RADIONUCLIDES
ANL-6879 N64-28726 20-23

MODELS FOR PREDICTION OF RADIONUCLIDE RELEASE IN BIOSPHERE
UCRL-7945-T N64-30045 21-23

FALLOUT DATA - RADIONUCLIDE LEVEL IN SOILS, MILK, TAP WATER, & AIR SAMPLES - STRONTIUM 90 LEVEL IN DIETS & BONES OF CHILDREN, AND PLUTONIUM 238 CONCENTRATION IN AIR
HASL-149 N64-31624 23-12

RADIOACTIVE WASTE
NATURALLY OCCURRING EARTH MATERIALS USED FOR DECONTAMINATING LOW LEVEL RADIOACTIVE WASTES
IDO-14624 N64-15180 07-07

ION EXCHANGE PROCESS FOR REMOVING CESIUM 137 FROM AGED RADIOACTIVE WASTE SOLUTIONS
DP-876 N64-19914 12-07

GAS CHROMATOGRAPH FOR DETERMINATION OF GASES IN SUPERHEATED STEAM FROM CALCINATION OF RADIOACTIVE WASTE IN SULFUR
DP-880 N64-20678 13-07

RADIOACTIVITY
SA FISSION PRODUCT
PORTABLE RADIATION SURVEY INSTRUMENT FOR DETECTION AND MEASUREMENT OF RADIOACTIVE CONTAMINATION
HW-78872 N64-11208 02-15

INDUCED RADIOACTIVITY IN BIOMATERIAL & INSTRUMENTS OF SATELLITES DURING SPACE FLIGHT
N64-11686 03-16

CORRECTION FACTORS AFFECTING EVALUATION OF TOTAL BETA RADIOACTIVITY OF FISSION PRODUCTS
EUR-424.F N64-13142 04-23

MONITORING ENVIRONMENTAL RADIOACTIVITY IN VICINITY OF BROOKHAVEN NATIONAL LABORATORY
BNL-807/T-310/ N64-14395 06-16

GAS CONSUMPTION AND METABOLISM OF COLD-BLOODED ANIMALS AND MIGRATION & RADIOACTIVITY OF MARINE ANIMALS
JPRS-23285 N64-15334 07-16

HYGIENIC PROBLEMS IN RADIOACTIVE CONTAMINATION OF OUTER SPACE
JPRS-23284 N64-15397 07-16

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NYO-4700, REV. N64-15997 07-16

RADIOACTIVITY INDUCED IN MATERIALS BY HIGH ENERGY PARTICLES
CERN-64-9 N64-18144 10-23

AGE DETERMINATION OF EARTH MINERALS, CHEMICAL ELEMENTS, & METEORITES BY RADIOACTIVE METHODS - ESTIMATE OF AGE OF EARTH N64-19328 12-12

AIR FILTER MEDIA USED FOR MONITORING AIRBORNE RADIOACTIVITY
NRL-6054 N64-21177 14-15

BLANKET FOR EXTINGUISHING FIRE AND FOR PROTECTION AGAINST THERMAL AND RADIOACTIVE RADIATION
FTD-TT-63-369/1 N64-21947 15-19

RADIOACTIVE RESEARCH ON OCEAN WATERS
JPRS-25068 N64-23321 16-12

SELF-DIFFUSION COEFFICIENT OF LIQUID MERCURY USING RADIOACTIVE TRACER
ARL-64-114 N64-24204 16-11

INELASTIC NEUTRON SCATTERING AND INDUCED RADIOACTIVITY FOR CARBON QUALITY APPRAISAL
N64-31791 23-12

RADIOBIOLOGY
CF BIOPHYSICS
RESEARCH IN RADIOBIOLOGY, GENETICS, RADIATION MEDICINE, AND BIOPHYSICS
JPRS-21868 N64-10328 01-16

IRRADIATION EFFECTS ON MICE AND RABBITS, THYROID FUNCTION DETERMINATION, RADIOBIOLOGY, AND MAMMARY CANCER PREOPERATIVE IRRADIATION
JPRS-18904 N64-10807 02-16

EFFECTS OF X- AND GAMMA-IRRADIATION ON EXPERIMENTAL ANIMAL SUBJECTS N64-10935 02-16

BIOLOGICAL ACTION OF IONIZING RADIATION
JPRS-20375 N64-12895 04-16

BIOMEDICAL RESEARCH ON MOLECULAR AND CELLULAR RADIOBIOLOGY IN MAMMALS
LAMS-3034 N64-16573 08-16

RATIONAL ANALYSIS OF RELATIONSHIPS BETWEEN RADIOCHEMICAL, BIOLOGICAL, AND CYTOCHEMICAL DATA OF RADIOBIOLOGY N64-16909 09-16

OXYGEN EFFECTS ON SURVIVAL AND RESTORATION RATES IN YEAST CELLS DUE TO IONIZING RADIATION - RADIOBIOLOGY
JPRS-23945 N64-18206 10-16

ANNOTATED BIBLIOGRAPHY ON RADIATION EFFECTS ON BIOLOGICAL SYSTEMS
TID-3098, BK. 2 N64-19036 11-16

RADIOELECTRONIC EQUIPMENT USED FOR MEDICAL AND BIOLOGICAL INVESTIGATIONS DURING SPACE FLIGHT
JPRS-26081 N64-28062 20-16

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AEC-TR-6258 N64-33582 24-16

RADIOCHEMISTRY
ULTRAPURE MATERIALS, RADIATION EFFECTS, REACTORS, RADIOCHEMISTRY, RADIATION HAZARD, AND PARTICLE ACCELERATOR - COMPILATION OF PAPERS
JPRS-20730 N64-10844 02-01

SUMMARY OF RESEARCH IN ATMOSPHERIC PHYSICS, RADIOLOGICAL CHEMISTRY & PHYSICS, CHEMICAL EFFLUENTS, & INSTRUMENTATION
HW-77609 N64-11345 02-01

RADIOCHEMICAL MEASUREMENT OF MASS-YIELD CURVE IN PILE-NEUTRON FISSION OF THORIUM
IS-558 N64-13354 04-23

APPLICATION OF RADIOCHEMISTRY TO DEFINITION OF PROPERTIES OF FALLOUT AND DEBRIS FROM NUCLEAR EXPLOSIONS N64-15111 07-07

CHEMICAL TECHNOLOGY OF ARTIFICIAL RADIOACTIVE ELEMENTS
JPRS-23350 N64-15648 07-07

X-RAY AND RADIOCHEMICAL ANALYSIS OF PROTACTINIUM FLUORIDE N64-15656 07-07

RADIOACTIVITY AND RADIOCHEMICAL ANALYSIS - HEALTH AND SAFETY LABORATORY MANUAL
NYO-4700, REV. N64-15997 07-16

RADIOCHEMICAL METHODS FOR NUCLIDE DETERMINATIONS - METAL SEPARATION
IDO-14613 N64-16571 08-23

ELECTRON PARAMAGNETIC RESONANCE STUDY OF RADIOCHEMICAL EFFECTS IN CRYSTALLINE AMINO ACIDS AND PROTEIN TISSUES N64-16903 09-16

RATIONAL ANALYSIS OF RELATIONSHIPS BETWEEN RADIOCHEMICAL, BIOLOGICAL, AND CYTOCHEMICAL DATA OF RADIOBIOLOGY N64-16909 09-16

CHEMISTRY - CHEMICALS AND RADIOACTIVE ISOTOPIC CONTAMINANTS IN AIR AND URINE
SC-4783/RR/ N64-17268 09-07

RAPID RADIOCHEMICAL SEPARATION OF RADIOISOTOPES WITH SHORT HALF LIVES, AND PRODUCTION BY NEUTRON IRRADIATION OF SHORT-LIVED METASTABLE ISOMERS
NYO-10174 N64-17732 09-07

ISOTOPE SEPARATION AND PURIFICATION - MULTIPLE SOURCE COINCIDENCE CORRECTION - RADIOCHEMISTRY OF POLONIUM
MLM-1178 N64-19058 11-23

THEORETICAL PRINCIPLES OF RADIOCHEMISTRY
AEC-TR-6314 N64-19094 11-07

RADIOCHEMICAL EXCHANGE TECHNIQUES FOR DETECTING HYDROGEN VAPORS IN SPACE VEHICLES
APL-TDR-64-51 N64-21107 14-15

RADIOCHEMICAL METHOD FOR ANALYSIS OF PESTICIDE CONTAMINATION IN FOOD PROCESSING
SAN-1022 N64-21590 15-07

RADIOCHEMICAL PURIFICATION OF EUROPIUM AND ITS NUCLEAR PROPERTIES
LAMS-3104 N64-28019 20-07

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EUR-1646.F N64-28659 20-16

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NYO-4700, SUPPL. 1 N64-31320 22-07

MONITORING SYSTEM FOR RADIOACTIVE FISSION PRODUCT GASES FROM DISSOLUTION OF IRRADIATED URANIUM IN RADIOCHEMICAL SEPARATIONS PROCESS
DP-908 N64-32794 24-15

RADIOGRAPHY
SA X-RAY PHOTOGRAPHY
CF PHOTOGRAPHY
MITOTIC CYCLE OF BONE MARROW CELLS IN MICE BY AUTORADIOGRAPHY
JPRS-21629 N64-10069 01-16

INSPECTION OF THICK POLYETHYLENE SECTIONS BY RADIOGRAPHY AND FLUOROSCOPY
PA-TM-1145 N64-12344 03-19

RADIOGRAPHIC METHODS FOR DYNAMIC SOIL RESPONSE N64-12411 04-12

RESTRAINT APPARATUS FOR THORACIC ROENTGENOGRAPHIC EXAMINATION OF UNANESTHETIZED PRIMATES
SAM-TDR-63-93 N64-12865 04-16

LABELLED THYMIDINE AND RADIOAUTOGRAPHY TO ASSESS ADRENAL CELL FORMATION IN ANIMALS AFTER VARIOUS TIMES OF COLD EXPOSURE
AAL-TDR-63-7 N64-13631 05-16

BED REST STUDY OF RADIOGRAPHIC BONE DENSITY AND URINE ANALYSIS FOR CALCIUM AND PHOSPHORUS
NASA-CR-55313 N64-14898 06-16

RADIOGRAPHIC STUDY OF CRATER GROWTH IN WAX UNDER HYPERVELOCITY IMPACT
BRL-1526 N64-20347 13-23

AUTORADIOGRAPHIC AND HISTOLOGIC STUDY OF SPLEEN WHITE PULP GERMINAL CENTERS OF NORMAL AND ANTIGENICALLY STIMULATED ANIMALS
ORNL-3595 N64-20636 13-16

X-RAY RADIOGRAPHY FOR OBSERVATION OF FAILURE MODES IN SEMICONDUCTOR DEVICES N64-20998 14-15

OPTIMUM EXPOSURE CONDITIONS FOR RADIOGRAPHIC DETECTION OF DEFECTS IN GRAPHITE
WADD-TR-61-72, VOL. XVII N64-21019 14-19

NEUTRON SHIELD ENCLOSURE FOR NEUTRON RADIOGRAPHIC INSPECTION OF ENCAPSULATED, IRRADIATED FUEL MATERIAL
ANL-6799 N64-22058 15-17

METALLOGRAPHIC AND RADIOGRAPHIC TECHNIQUES FOR EVALUATION OF CERAMIC NUCLEAR FUEL ELEMENTS
ORNL-3577 N64-22111 15-19

GRIDS FOR REDUCING SCATTERED X-RAYS IN MEDICAL RADIOGRAPHY N64-23275 16-16

BENEFICIAL USES OF RADIATION EFFECTS - POWER, ILLUMINATION, RADIOGRAPHY, TELETHERAPY, AND TRACER TECHNOLOGY
REIC MEMO-25 N64-24967 17-16

AUTORADIOGRAPHIC STUDY OF INCORPORATION OF

TRITIATED THYMIDINE INTO DEOXYRIBONUCLEIC ACID MOLECULE
LFEN-NI.11 /ALPHA/ N64-29885 21-16

PHOTOGRAPHIC EMULSION RESPONSE TO FAST NEUTRONS FOR NEUTRON RADIOGRAPHY
USNRDL-TR-766 N64-32871 24-23

RELATIVE NEUTRON ABSORPTION RATES AND X-RADIATION USED FOR INSPECTION OF THICKNESS, DETECTION OF HYDROGEN, BORON, & LITHIUM, AND RADIOGRAPHIC DISCRIMINATION IN HEAVY MATERIALS
ANL-6846 N64-33235 24-23

MODIFIED FILM DEVELOPING PROCEDURES FOR PRODUCING COLOR RADIOGRAPHS
WVT-II-6410 N64-33894 24-15

RADIOLOGY
AERIAL RADIOLOGICAL MEASURING SURVEY OF LAS VEGAS AREA FOR GAMMA RADIATION LEVEL - RADIOACTIVITY DISTRIBUTION & GEOLOGICAL CORRELATION
CEX-61.6.1 N64-10129 01-23

RADIOLOGICAL SURVEY CORRELATING GAMMA RADIATION LEVEL WITH GEOLOGY
CEX-6164 N64-10407 01-16

RADIOLOGICAL MEDICAL ENCYCLOPEDIA
JPRS-18414 N64-10866 02-16

MODIFICATION OF 88 & 184-INCH CYCLOTRON FOR RADIOBIOLOGICAL RESEARCH
UCRL-11128 N64-11623 03-10

BIOCHEMICAL PROBE INTO ENERGY SOURCE COMPOUNDS, ENZYME INHIBITORS, AND RADIOBIOLOGY
JPRS-19995 N64-12570 04-16

RADIATION THERAPY, SYNCHROTRON OPERATION, RADIOBIOLOGY, & RADIATION GENETICS STUDIES
UCSF-23 N64-13133 04-16

RADIOLOGICAL ASSISTANCE TEAM - ORGANIZATION, TRAINING, OPERATION, EQUIPMENT, AND UTILIZATION IN INCIDENTS INVOLVING NUCLEAR WEAPONS AND MATERIALS
ANL-6786 N64-13224 04-10

DIAGNOSIS AND TREATMENT OF CONTAMINATION BY RADIOACTIVE ISOTOPES
JPRS-22610 N64-13320 04-16

RADIOLOGICAL SAFETY CONSIDERATIONS - EVALUATION OF STORAGE, HANDLING, & TRANSPORATATION OF PLUTONIUM-BEARING WEAPONS
SC-4973/RR/ N64-14046 05-16

CLINICAL RADIOLOGY RELATION TO SURGERY AND STUDIES OF ORGANS AND TISSUES
JPRS-23317 N64-15336 07-16

RADIOBIOLOGY, BIOCHEMISTRY, PHARMACOLOGY, TOXICOLOGY, & RADIATION HAZARDS
UCLA-520 N64-15341 07-16

INDUSTRIAL SAFETY - CARE AND OBSERVATION OF PERSONS WORKING WITH RADIATION SOURCES, AND ANALYSIS OF MEDICAL OBSERVATIONS
N64-15677 07-16

RADIOLOGY - EFFECTS OF PLUTONIUM-239 ON METABOLIC FUNCTIONS OF MAMMALS
FTD-TT-63-559/1&2 N64-16377 08-16

RADIOLOGICAL MONITORING FOLLOWING NUCLEAR ATTACK
AD-432345 N64-19140 11-23

MEDICAL RADIOLOGY - RADIATION SICKNESS, ANIMAL STUDY, AND CYBERNETICS
JPRS-24452 N64-20943 14-16

DOSIMETRY, RADIATION DISTRIBUTION, RADIATION PROTECTION, RADIOBIOLOGY, AND BIOPHYSICS
NYO-2740-1 N64-21035 14-23

WIDE RANGE SCINTILLATION DETECTOR FOR AERIAL RADIOLOGICAL SURVEY
USAELRDL-TR-2397 N64-22965 16-22

COSMIC RADIATION EFFECT ON ORGANISMS AND DEVELOPMENT OF PROTECTIVE MEASURES
FTD-TT-64-33/1&2&4 N64-23335 16-16

RADIOLOGICAL PREDICTION & MONITORING SYSTEMS
AD-412431 N64-25638 17-15

SAFETY MANUAL FOR PERSONNEL HANDLING RADIOACTIVE MATERIALS
AD-438147 N64-27263 19-16

STUDIES IN BIOCHEMISTRY, NUCLEAR MEDICINE, RADIOBIOLOGY, BIOPHYSICS, AND ENVIRONMENTAL RADIATION
UCLA-12-529 N64-27343 19-16

RADIOBIOLOGICAL RESEARCH OF COSMIC RADIATION EFFECTS DURING SPACE FLIGHTS N64-27631 19-16

MICROMETEOROLOGICAL RESEARCH PROJECT TO AID IN CHEMICAL-BACTERIOLOGICAL-RADIOLOGICAL WARFARE, ROCKET LAUNCHING, AND COMBAT SURVEILLANCE SENSORS
ERDAA-MET-4-64 N64-27794 19-21

RADIOLOGY & PROTECTION OF COMMUNITY FROM RADIATION
FTD-TT-64-163/1&3&4 N64-29073 21-16

CHEMICAL METHODS TO PROTECT BIOLOGICAL SYSTEMS AGAINST IONIZING RADIATION N64-29074 21-16

RADIATION SICKNESS STUDIES - RADIOPROTECTIVE PROPERTIES OF ADRENOCORTICOTROPIN /ACTH/, USE OF DRUGS IN SICKNESS INDUCED BY POLONIUM INJECTIONS, AND TREATMENT OF SKIN LESIONS
JPRS-26542 N64-29759 21-16

MECHANISMS OF CHEMICAL PROTECTION AGAINST RADIATION IN LIVING ORGANISMS - RADIOBIOLOGY
JPRS-26842 N64-31313 22-16

RADIOBIOLOGICAL RESEARCH - STUDIES ON ANIMAL METABOLISM, EFFECTS OF EXPOSURE, PATHOLOGY, BIOCHEMISTRY OF FISSION PRODUCTS, AND GENETICS
ORO-624 N64-31471 23-16

CYANIDES AND NITRILES FOR RADIATION THERAPY - MEDICAL RADIOLOGY
JPRS-26887 N64-32306 23-16

PROTOTYPE ALL-MECHANICAL PORTABLE FIELD CALIBRATOR FOR RADIOLOGICAL SURVEY INSTRUMENTS
AD-446447 N64-32578 23-15

RADIOLYSIS
MAXIMIZATION OF OZONE YIELD IN RADIOLYSIS OF OXYGEN
JLI-2901-0-1 N64-12129 03-07

RADIOLYTIC DAMAGE TO ORGANIC COOLANTS
IDO-16911 N64-13899 05-19

EFFECT OF ADDITIVES ON RADIOLYSIS PRODUCTS OF ORGANIC CHAIN REACTIONS
NYO-10025 N64-18413 10-07

RADIATION-INDUCED CHAIN REACTION BETWEEN NITROUS OXIDE AND HYDROGEN IN AQUEOUS SOLUTIONS
N64-19265 11-07

GAMMA RADIATION EFFECTS ON NICKEL-CADMIUM BATTERIES - CAPACITY LOSS OF CADMIUM ELECTRODE AND RADIOLYSIS OF AQUEOUS POTASSIUM HYDROXIDE ELECTROLYTE
NASA-CR-58570 N64-29691 21-06

RADIOLYSIS OF PROPANE AT LOW CONVERSION
GNE/PHYS/64-2 N64-33815 24-07

RADIOMETER
SA MICROWAVE RADIOMETER
GROUND RADIOMETER FOR MILLIMETER WAVE RESEARCH IN CLOUD PHYSICS N64-10928 02-21

CORRELATION RADIOMETER FOR MILLIMETER & SUBMILLIMETER WAVELENGTHS
NASA-CR-52684 N64-11230 02-08

SENSITIVITY OF RADIOMETER MEASUREMENTS
N64-11363 02-15

NEAR-INFRARED MODULATION RADIOMETER USING PHOSPHORUS RECEIVER
FTD-TT-63-180/1&2 N64-12372 03-25

RADIOMETERS & FALLOUT PROTECTION
JPRS-22669 N64-13162 04-15

METHOD FOR ELIMINATING ERROR IN CALIBRATION OF RADIOMETERS
SSD-TDR-63-310 N64-14669 06-15

DEVICES AND TECHNIQUES FOR MILLIMETER WAVELENGTH SUPERHETERODYNE RECEIVERS FOR USE AS RADIOMETERS
NASA-CR-2 N64-14937 06-08

STABILIZATION OF GAIN OF PARAMETRIC AMPLIFIERS USED IN RADIOMETER RECEIVERS
AFCRL-63-573 N64-15685 07-09

TRACKING, TELEVISION, AND INFRARED RADIOMETER SUB-SYSTEMS OF TIROS SATELLITES
NASA-TM-X-54565 N64-15859 07-32

MARINER II INFRARED RADIOMETER EXPERIMENT
NASA-CR-53078 N64-15964 07-32

TRANSISTORIZED RADIOMETERS AND HIGH ALTITUDE EARTH AND SOLAR RADIATION MEASUREMENTS
AFCRL-63-911 N64-16661 08-15

RELIABILITY OF VISIBLE CHANNEL OF TIROS SATELLITE 5-CHANNEL RADIOMETER
NASA-CR-53105 N64-16743 08-12

RADIOMETER AND SLUG-TYPE CALORIMETER IN SOLID PROPELLANT ROCKET MOTOR
ABL/Z-60 N64-17333 09-13

SPATIAL, SPECTRAL, AND INTENSITY DISTRIBUTION MEASUREMENTS OF OPTICAL RADIATION WITH MODEL WW-1 LOGARITHMIC NINE-CHANNEL RADIOMETER
AFCRL-63-896 N64-17849 10-15

RADIANCE OF SOLAR DISK MEASURED AS FUNCTION OF WAVELENGTH WITH SPECTRAL RADIOMETER
DRI-2145 N64-19673 12-28

DESCRIPTION AND CIRCUIT DIAGRAMS OF ELECTRONIC COMPONENTS OF L BAND RADIOMETER
ACF-AR-1679 N64-20104 13-15

ULTRAHIGH FREQUENCY RADIOMETER FOR PLASMA NOISE MEASUREMENTS
ACF-AR-1678 N64-20184 13-15

RADIOMETERS, BALLOON FLIGHT DATA, AND USE OF STELLAR REFRACTION AS METEOROLOGICAL SATELLITE TECHNIQUE
NASA-CR-53970 N64-20599 13-01

SATELLITE MEASUREMENTS OF ATMOSPHERIC RADIATION DURING TWILIGHT HOURS - DEVELOPMENT OF INFRARED SATELLITE TRACKING RADIOMETER
AFCRL-64-302 N64-21240 14-32

MARINER II SPACECRAFT MICROWAVE RADIOMETER EXPERIMENT & VENUS SPACE PROBE N64-22439 15-32

MARINER II SPACECRAFT MICROWAVE RADIOMETER EXPERIMENT & VENUS SPACE PROBE N64-22442 15-08

USE OF LOW-NOISE AMPLIFIER IN SPECTRAL RADIOMETER N64-23793 16-08

RADIATION MEASURING INSTRUMENTS, AIRCRAFT FLIGHT TESTS OF NIMBUS RADIOMETERS, AND BALLOON FLIGHT DATA
NASA-CR-56207 N64-23939 16-15

SATELLITE MEASUREMENT OF INFRARED BACKGROUND RADIATION USING RADIOMETER
SSD-TDR-64-101 N64-26108 18-30

RADIOMETER-PYROMETER FOR MEASUREMENT OF ABSORPTION, EMISSION, AND TEMPERATURE OF GASEOUS COMBUSTION PRODUCTS
NASA-TN-D-2405 N64-27092 19-15

TIROS IV RADIOMETER PRINCIPLES AND CALIBRATION AND RADIATION DATA PROCESSING
NASA-TM-X-51921 N64-27404 19-32

DATA REDUCTION AND MAPPING PROCEDURES UTILIZING TIROS III FIVE-CHANNEL RADIOMETER DATA
NASA-TM-X-55047 N64-28088 20-08

CALIBRATION OF FIVE CHANNEL TIROS SATELLITE RADIOMETER N64-28206 20-15

AID FOR INTERPRETATION OF MEDIUM RESOLUTION RADIATION DATA FROM TIROS III SATELLITE - CORRECTION MODELS FOR RESPONSE DEGRADATION IN FIVE-CHANNEL RADIOMETER
NASA-TM-X-51825 N64-28922 20-12

GLOBAL SILICON CARBIDE BLACK MATERIAL APPLIED TO UNIMMERSED TIROS RADIOMETER TYPE INFRARED DETECTORS
NASA-CR-60003 N64-28925 20-15

CALIBRATION OF RADIOMETERS USED ON HYPERSONIC FREE FLIGHT RANGES
CARDE-TR-500/64 N64-29394 21-15

LOW RESOLUTION RADIOMETER FROM TIROS SATELLITE
NASA-TN-D-614 N64-30090 21-15

INFRARED BACKGROUND MEASUREMENTS MADE BY AUTOMATIC PROGRAMMED RADIOMETER SYSTEM DURING BALLOON FLIGHT OF 29 OCTOBER 1962
AD-421461 N64-31154 22-21

INFRARED RADIOMETER MEASUREMENTS OF FIREFLY PROJECT ARTIFICIAL CLOUDS N64-31386 23-12

LOW COST GAMMA RADIATION SURVEY METER
AD-447857 N64-32146 23-15

LOW NOISE KA-BAND RECEIVING SYSTEM USING TUNABLE TRAVELING WAVE MASER AND RADIOMETER
REPT.-8298-1 N64-32594 23-08

RADIOMETER SENSITIVITY INCREASE BY NOISE MODULATION OF INPUT SIGNAL N64-32907 24-08

TABLES OF SCAN NADIR AND HORIZONTAL ANGLES FOR ANALYSIS OF METEOROLOGICAL SATELLITE RADIOMETER DATA
SMRP RES. PAPER-31 N64-33793 24-21

RADIOMETRY
METEOROLOGICAL STUDIES - SATELLITE MICROWAVE INSTRUMENTATION, RADIOMETRY, AND ABSORPTION & EMISSION CHARACTERISTICS
NASA-CR-52130 N64-10911 02-01

INVERSION TECHNIQUE FOR MEASUREMENT OF ATMOSPHERIC TEMPERATURE BY RADIOMETRY N64-10914 02-21

DISCREPANCY IN RADIOMETRIC MEASUREMENTS DUE TO ATMOSPHERIC RADIATION N64-10921 02-23

EFFECT OF RADIATIVE ATMOSPHERIC TEMPERATURE ON RADIOMETRIC DETERMINATION OF APPARENT TEMPERATURE OF MATERIALS N64-10922 02-12

SATELLITE RADIOMETRY - APPLICATION TO MEASUREMENT OF SEA STATE N64-10923 02-21

RADIOMETRIC MEASUREMENT OF TARGETS INCLUDING TRUCKS, TANKS, BRIDGES, & RAILROADS IN DIFFERENT ENVIRONMENTS - MILITARY USE N64-10927 02-01

RADIOMETRIC MEASUREMENTS IN RADIO ASTRONOMY - SUN, MOON, VENUS, JUPITER, GAS SPECTRA, AND OTHER RADIO EMISSION SOURCES N64-10929 02-23

METEOROLOGICAL PARAMETRIC INFERENCES FROM SATELLITE RADIOMETRIC DATA N64-10930 02-21

TWIN-ROD CONDUCTION CALORIMETER FOR ROUTINE ASSAY OF SMALL RADIOACTIVE SOURCES
UCRL-7488 N64-11580 03-23

TELEVISION, PHOTOGRAMMETRY, PHOTOMETRY, AND RADIOMETRY ADAPTABLE TO SPACE RECONNAISSANCE - LITERATURE SURVEY
NASA-CR-53045 N64-14890 06-09

INFRARED AND MICROWAVE RADIOMETRY
N64-15457 07-23

PLANETARY SURFACE INVESTIGATION BY ELECTROMAGNETIC RADIATION REFLECTION AND EMISSION OBSERVATION TECHNIQUES
N64-16260 08-29

ERRORS IN ATMOSPHERIC TEMPERATURE STRUCTURE SOLUTIONS FROM REMOTE RADIOMETRIC MEASUREMENTS
NASA-CR-53120 N64-16755 08-23

RADIO ASTRONOMY - MILLIMETER AND MICROWAVE TECHNIQUES AND OBSERVATIONS
N64-17877 10-05

DESIGN CRITERIA FOR RADIOMETRIC EQUIPMENT TO OBTAIN REPRODUCIBLE INFRARED MEASUREMENTS OF PYROTECHNIC FLARES
ATL-TDR-64-10 N64-18179 10-26

RADIOMETRY IN SUBMILLIMETER REGION USING INTERFEROMETRIC MODULATOR
N64-19254 11-15

RADIOMETRY AND TELEMETRY TECHNIQUES AND APPARATUS FOR GEOPHYSICAL INVESTIGATIONS OF DEEP OIL AND GAS WELLS
JPRS-26100 N64-28398 20-15

STRATOSPHERIC TEMPERATURE PROFILES BASED ON RADIOMETRIC MEASUREMENTS FROM TIROS VII SATELLITE
NASA-TM-X-55045 N64-28930 20-21

AIRBORNE RADIOMETRY TO MEASURE SURFACE TEMPERATURE OF TROPICAL ISLAND
NASA-CR-58529 N64-29547 21-12

PHOTOGRAPHIC SPECTROMETRY AND RADIOMETRY FOR MEASUREMENT OF REENTRY OBSERVABLES - RADIANT ENERGY TRANSFER EQUATIONS
R64SD1023 N64-30866 22-15

LIQUID SCINTILLATION COUNTING APPLIED TO RADIOMETRIC TOOL TESTING
RIA-64-729 N64-32251 23-17

OPTIMUM INVERSION TECHNIQUE FOR INFERRING VERTICAL TEMPERATURE PROFILES FROM REMOTE RADIOMETRIC OBSERVATIONS
NASA-CR-60022 N64-33618 24-28

CLIMATOLOGY FROM TIROS SATELLITE RADIOMETRY DATA - ATMOSPHERIC MOISTURE AND HEAT BALANCE
NASA-TM-X-55088 N64-33637 24-12

RADIOPATHOLOGY
SA RADIATION SICKNESS
PATHOGENIC EFFECT OF LOW & MEDIUM DOSES OF GAMMA RADIATION ON CARRION FLIES AND THEIR PROGENY
JPRS-22107 N64-11272 02-16

PROBLEMS OF PATHOGENESIS, DISEASE PREVENTION, & THERAPY OF RADIATION INJURY
N64-12804 04-16

RADIOPHYSICS
SUMMARY OF RESEARCH IN ATMOSPHERIC PHYSICS, RADIOLOGICAL CHEMISTRY & PHYSICS, CHEMICAL EFFLUENTS, & INSTRUMENTATION
HW-77609 N64-11345 02-01

RADIOPHYSICS RESEARCH - RADIATION EFFECT ON TISSUE CULTURE CELLS
NYO-10451 N64-12123 03-16

RADIO PHYSICS & PLASMA DYNAMICS IN COMMUNICATIONS THEORY
AD-424620 N64-12371 03-09

RADIOPHYSICS, PLASMA DYNAMICS, AND COMMUNICATIONS THEORY
QPR-72 N64-17876 10-01

RADIOPHYSICS
JPRS-24633 N64-23783 16-28

LUMINESCENCE, IONIZATION, AND RADIATION PHYSICS
JPRS-24842 N64-24564 17-23

RADIOPHYSICS
JPRS-25168 N64-27151 19-08

RADIO PHYSICS, PLASMA DYNAMICS, AND COMMUNICATION SCIENCES AND ENGINEERING
AD-603870 N64-29998 21-23

RADIOSONDE
ERROR ANALYSIS FOR MEASUREMENTS MADE WITH RADIOSONDE ANEROID BAROMETER
RSIC-110 N64-13781 05-15

SLOTTED CYLINDER ANTENNA FOR ROCKET-BORNE RADIOSONDE APPLICATIONS
USAELRDL-TR-2368 N64-13870 05-08

RADIOSONDE COMPATIBLE WITH ELECTROMAGNETIC ENVIRONMENT OF ALANTIC MISSILE RANGE
MTC-TDR-63-8 N64-14301 06-08

THERMAL, CLOUD, AND PRECIPITATION STRUCTURES OF OCCLUDED FRONTAL SYSTEMS ON MESO- & SYNOPTIC SCALES - RADIOSONDE & RADAR OBSERVATIONS
AFCRL-64-26 N64-16869 08-21

ATMOSPHERIC OZONE PROFILES, ASSOCIATED TEMPERATURE AND DEW POINT PROFILES, AND TABULATED OZONE AND RADIOSONDE DATA
AFCRL-64-30/1/ N64-20094 13-12

AIR LAUNCHED ROCKETSONDE COMPATIBILITY WITH WB-47 AIRCRAFT AND RADIOSONDE RECEIVER FOR WEATHER FORECASTING
AFCRL-64-59 N64-22307 15-32

WIND PROTECTION FOR RADIOSONDE BALLOONS
FTD-TT-63-708/1&2 N64-22658 15-15

ROCKET RADIOSONDE PROVIDING FOUR SIMULTANEOUS CHANNELS OF TELEMETRY
USAELRDL-TR-2382 N64-25297 17-32

RADIOSONDE FOR MEASURING INTENSITY OF COSMIC RAYS IN STRATOSPHERE
N64-25932 18-32

CONTINUOUS TRANSMISSION MULTICHANNEL RADIOSONDE FOR METEOROLOGICAL SOUNDINGS
AFCRL-64-326 N64-26181 18-32

ERROR IN HEIGHT VARIATION OF TROPOPAUSE BASED ON RADIOSONDE DATA
T-R-421 N64-29428 21-21

F-TYPE RADIOSONDE AS TURBULENCE INDICATOR - ATMOSPHERIC TURBULENCE IN INDIA
TN-AE-23-64 N64-29882 21-21

AIRCRAFT AND RADIOSONDE INSTRUMENTS FOR MEASURING RAINDROP SIZE
N64-32337 23-15

RELIABILITY OF RADIOSONDE AEROLOGICAL OBSERVATIONS USING METHOD OF TWIN SONDES
N64-33480 24-12

RADIUM
RADIATION SICKNESS FROM INTERNAL RADIATION - ORAL DOSE OF RADIUM BROMIDE POWDER
N64-20944 14-16

RADIUM 226
EFFECT OF STRONTIUM 90 AND RADIUM 226 ON BEAGLE
UCD-472-110 N64-26043 18-16

RADOME
MECHANICAL DESIGN OF HORN-REFLECTOR ANTENNA AND RADOME
N64-10883 02-08

OPTIMIZATION OF ELECTRICAL AND MECHANICAL CHARACTERISTICS OF RIGID C-BAND RADOME
RADC-TDR-63-481 N64-14311 06-08

METAL INCLUSIONS IN RADOMES - TRANSMISSION EFFICIENCY
ERR-FW-050 N64-18919 11-09

TRANSMISSION EFFICIENCY MEASUREMENTS OF SANDWICH PANEL AT VARIOUS INCIDENT ANGLES - RADOME
ERR-FW-114 N64-18920 11-09

DESIGN TECHNIQUES FOR STRUCTURALLY SUPPORTED CERAMIC RADOMES - PRESSURE DRAG, ELECTRIC, AND PHYSICAL PROPERTIES
IER-1 N64-20165 13-08

DESIGN OF ONE-LAYER AND THREE-LAYER TUNABLE RADOMES
REPT.-1751-4 N64-21746 15-08

PRESSURE DISTRIBUTION ON SCALE MODEL RADOME
N64-23671 16-10

RIGID GROUND RADOME PHYSICAL & OPERATIONAL CHARACTERISTICS
RADC-TDR-64-127 N64-23958 16-33

MATERIALS, INFLATABLE STRUCTURES, AND RIGID STRUCTURES FOR RADOMES
USAADEA-TR-14-1 N64-24806 17-08

FABRICATION OF PLASTIC MISSILE RADOME
TM-1156 N64-25531 17-17

FLAME GLAZING OF SLIP/CAST FUSED SILICA RADOMES FOR RAIN EROSION TESTS
QR-1 N64-25725 17-19

STRUCTURALLY SUPPORTED RADOME STUDIES - PREDICTION OF PLANE WAVE TRANSMISSION PERFORMANCE OF SPACE FRAME AND DEFINITION OF AERODYNAMIC LOAD LIMITS
IER-2 N64-28200 20-34

RAIN EROSION EFFECTS ON RADOMES TRAVELING AT SUPERSONIC SPEEDS
NOTS-TP-3232 N64-28909 20-10

ELECTROMAGNETIC WINDOW CONFERENCE - FABRICATION AND TESTING OF AIRBORNE RADOMES AND HYPERSONIC ENVIRONMENT
AD-605391 N64-32213 23-17

WAVE DIFFRACTION PATTERN OF DIELECTRIC RADOME
REPT.-1180-13 N64-33547 24-08

HOMING DEVICE WITH INTEGRATED DIPOLE ANTENNA AND RADOME CIRCUITRY - DIRECTION FINDER
REPT.-1566-12 N64-33645 24-08

RADOME MATERIAL
MICROWAVE FREQUENCY DIELECTRIC MEASUREMENTS OF NONMETALLIC INORGANIC REFRACTORY MATERIALS FOR RADOME APPLICATIONS AT ELEVATED TEMPERATURES
AD-432141 N64-16846 08-19

RADON
CF RARE GAS
DEVICE FOR MEASUREMENT OF RADON IN BREATH
UR-640 N64-17466 09-16

EFFECT OF INHALED RADON ON SURVIVAL, BODY WEIGHT, AND HEMOGRAM OF MOUSE AFTER SEVERAL EXPOSURES
UR-624 N64-18409 10-16

RADON TOLERANCE OF HUMAN GASTROINTESTINAL SYSTEM
UR-648 N64-31319 22-16

RAIN
TURBULENT FLOW, WEATHER FORECASTING, FOG BOUNDARY LAYERS, RAIN INTENSITY CALIBRATION OF RADAR, HIGH SPEED TURBULENCE, & BIBLIOGRAPHY ON METEOROLOGY
JPRS-18141 N64-10570 01-21

MICROWAVE SCATTERING AND EXTINCTION PROPERTIES OF POLYDISPERSED CLOUD AND RAIN ELEMENTS
R-422-PR N64-14493 06-21

EQUATORIAL EXTENSION OF TROUGHS IN UPPER WESTERLIES AND RELATION OF TROPOSPHERIC FLOW TO ONSET OF MONSOON RAINS OVER INDIA
N64-16307 08-21

EFFECT OF WATER TEMPERATURES OVER ARABIAN SEA ON ONSET AND PROPERTIES OF MONSOON CURRENT
N64-16309 08-21

WIND CIRCULATION MODEL FOR EXPLAINING BAY OF BENGAL MONSOONS N64-16310 08-21

DEFINITIONS OF MONSOON - CONCEPTS AND LIMITATIONS
N64-16311 08-21

DEVICE FOR MEASURING WATER CONTENT OF CLOUDS AND RAIN
FTD-TT-63-621/1&2 N64-16380 08-21

ENVIRONMENTAL TESTING OF RAIN REPELLANT CHARACTERISTICS OF WINDSHIELD COATING
FGT-3062, ADD. 1 N64-16633 08-19

RAIN IMPACT DAMAGE AND STATIC TESTING OF LEADING EDGE PANEL OF WING
FGT-2728 N64-20388 13-03

VARIATIONS IN TROPICAL RAINFALL PATTERNS
AD-432405 N64-21402 14-21

EVALUATION OF HEAT RESISTANT, RAIN-EROSION-RESISTANT COATING
BMPR 4 N64-25365 17-19

FLAME GLAZING OF SLIP/CAST FUSED SILICA RADOMES FOR RAIN EROSION TESTS
QR-1 N64-25725 17-19

RAINDROP SIZE DISTRIBUTION IN HEAVY SHOWERS - QUALITATIVE ANALYSIS OF CLOUD-DROPLET ACCRETION, RAINDROP COALESCENCE, & EVAPORATION PROCESS EFFECT
AFCRL-63-906 N64-27217 19-21

RAIN EROSION EFFECTS ON RADOMES TRAVELING AT SUPERSONIC SPEEDS
NOTS-TP-3232 N64-28909 20-10

CLOUD AND PRECIPITATION FORMATION AND WEATHER MODIFICATION
TR-177 N64-29899 21-21

RADAR PRECIPITATION PROFILES OF RAINSTORMS AND APPLICATIONS IN SYNOPTIC METEOROLOGY
MW-37 N64-32478 23-21

CUMULUS CONVECTION AND OROGRAPHIC CONVECTION CELLS - SYNOPTIC STUDY OF MONSOON RAINFALL IN SOUTHEAST ASIA
REPT.-4 N64-33707 24-21

RAIN GAUGE
S PRECIPITATION PARTICLE MEASUREMENT

RAINDROP
COEFFICIENT OF CAPTURE OF AEROSOL PARTICLES BY RAIN & CLOUD DROPLETS N64-20209 13-21

SCATTERING PARAMETERS OF POLYDISPERSED HYDROMETEORS - SCATTERING & ABSORPTION COEFFICIENTS OF RAINDROPS
P-2914 N64-26448 18-08

RAINDROP SIZE DISTRIBUTION IN HEAVY SHOWERS - QUALITATIVE ANALYSIS OF CLOUD-DROPLET ACCRETION, RAINDROP COALESCENCE, & EVAPORATION PROCESS EFFECT
AFCRL-63-906 N64-27217 19-21

CORRELATION OF RAINDROP-SIZE DISTRIBUTION AND RADAR ECHO VARIABLES TO IMPROVE RAINFALL INTENSITY MEASUREMENT
TR-9 N64-29645 21-21

CORRELATION OF RAINDROP-SIZE DISTRIBUTION AND RADAR MEASUREMENT OF SURFACE PRECIPITATION
QTR-6 N64-33354 24-21

RAM B LAUNCH VEHICLE
TRANSONIC PRESSURE TUNNEL TEST OF AERODYNAMIC CHARACTERISTICS AND SURFACE PRESSURE MEASUREMENTS FOR MODEL OF RAM B LAUNCH VEHICLE
NASA-TN-D-2204 N64-17747 09-31

DESCRIPTION AND FLIGHT PERFORMANCE OF RAM B LAUNCH VEHICLE
NASA-TN-D-2437 N64-28329 20-31

RAMAN EFFECT
RAMAN EFFECT AND PHONON MASERS
NASA-CR-53103 N64-16744 08-25

RAMAN SPECTRUM
CF RAMAN SCATTERING
RAMAN SPECTRA & INFRARED ABSORPTION SPECTRUM OF ETHYLENIMINE AND ITS ALKYL SUBSTITUTES
RSIC-5 N64-13811 05-07

ROTATIONAL RAMAN SPECTRA FOR OBTAINING MOLECULAR STRUCTURAL PARAMETERS N64-29063 21-23

RAMJET ENGINE
EFFECT OF EXHAUST NOZZLE RECOMBINATION ON HYPERSONIC RAMJET PERFORMANCE N64-10155 01-02

EXHAUST NOZZLE RECOMBINATION OF HYDROGEN FUEL IN SUBSONIC RAMJET ENGINES AT HYPERSONIC SPEEDS
NASA-RP-56 N64-10291 01-02

RAMJET STRUCTURAL ELEMENTS, NONREGENERATIVELY COOLED COMBUSTION CHAMBERS & NOZZLES, AND HIGH TEMPERATURE COATED TUNGSTEN STRUCTURES
REPT.-25109 N64-13596 05-27

RELATION OF FUEL PROPERTIES TO THRUST OF AIR-BREATHING RAMJET ENGINES
TIL/T-5460 N64-16262 08-26

METHOD FOR COMPUTING REACTION RATES FOR HYDROGEN-AIR MIXTURES IN RAMJET ENGINE N64-18137 10-26

FIXED-GEOMETRY TWO-DIMENSIONAL SUPERSONIC COMBUSTION RAMJETS
NASA-TM-X-52032 N64-20578 13-27

RAMJET STRUCTURAL ELEMENTS, NONREGENERATIVELY COOLED COMBUSTION CHAMBERS AND NOZZLES, AND HIGH TEMPERATURE COATED TUNGSTEN STRUCTURES
REPT.-25092 N64-20857 14-26

OPTIMUM FLOW TEMPERATURE, FLIGHT VELOCITY, AND OTHER PARAMETERS OF SUPERSONIC RAMJET ENGINE WITH HEAT EXCHANGER
TIL/T-5396 N64-20867 14-26

PROTECTIVE COATING FOR NIOBIUM BASE ALLOYS TO BE USED IN RAMJET MISSILE
REPT.-6012 N64-21157 14-18

THEORETICALLY IDEAL ROCKET-RAMJET ENGINE COMBINATIONS
FTD-TT-63-864/1&2 N64-22139 15-27

THEORETICAL PERFORMANCE OF SUBSONIC COMBUSTION RAMJET
AFOSR-63-5351-1 N64-22206 15-27

EFFECT OF EXHAUST NOZZLE RECOMBINATION ON HYPERSONIC RAMJET PERFORMANCE
AIAA PAPER-63-118 N64-23271 16-11

RAMJET ENGINE MEASURING APPARATUS
N64-25389 17-15

REAL GAS EFFECT ON KEROSENE FUELED HYPERSONIC RAMJET PERFORMANCE N64-26330 18-27

RAMJET AND TURBOJET ENGINE COMBUSTION INSTABILITY
N64-28593 20-26

TURBOJET AND RAMJET PERFORMANCE MEASURED AT SIMULATED ALTITUDE N64-28596 20-27

RAMJET MISSILE
PROTECTIVE COATING FOR NIOBIUM BASE ALLOYS TO BE USED IN RAMJET MISSILE
REPT.-6012 N64-21157 14-18

RAMP
PRESSURE & HEAT TRANSFER DATA FOR HYPERSONIC FLOWS OVER EXPANSION CORNERS AND AHEAD OF RAMPS
ASD-TDR-63-679, PT. 1 N64-12228 03-13

ANALOG COMPUTER PROGRAM FOR DETERMINATION OF HEAT TRANSFER PARAMETERS OF POWER RAMPS ON SODIUM REACTOR EXPERIMENT
NAA-SR-7929 N64-23062 16-23

HYPERSONIC FLOWS OVER FULL SPAN RAMPS MOUNTED ON FLAT PLATE
RTD-TDR-63-4044, PT. III N64-24143 16-11

RANDOM DISTRIBUTION
FUNDAMENTALS OF MONTE CARLO METHODS IN RANDOM-NUMBER-GENERATION, DISTRIBUTION, AND SAMPLING IN PROBLEMS N64-11865 03-20

CONVERGENCE OF PARTICLE RANDOM DISTRIBUTION IN SPACE ASSOCIATED WITH BRANCHING PROCESS
AD-434059 N64-18383 10-20

ELECTROMAGNETIC WAVE PROPAGATION IN HETEROGENEOUS MEDIUM - RANDOM DISTRIBUTION
NASA-CR-53926 N64-19942 12-08

RANDOM DISTRIBUTION OF GAS MOLECULES IONIZED BY ELECTRONS IN ELECTRON TUBE
CU-43-64-NONR-266/59/MS N64-20546 13-23

PROBABILITY DENSITY FUNCTION FOR INTERFERENCE FROM RANDOMLY DISTRIBUTED SOURCES N64-22830 16-09

RANDOM LOAD
OPTIMAL CONTROL WITH RANDOM LOADINGS
FTD-MT-64-20 N64-31882 23-20

EFFECTS OF VARIABLE-AMPLITUDE AXIAL LOADS AND GROUND-AIR-GROUND CYCLES ON FATIGUE LIFE OF ALUMINUM ALLOYS
NASA-TN-D-1584 N64-32426 23-18

RANDOM NOISE
NONLINEAR STRESS RESPONSE OF WINDOW GLASS TO STATIC PRESSURE AND RANDOM NOISE
NASA-TN-D-2025 N64-11898 03-23

RANDOM VIBRATION TERMINOLOGY AND RANDOM NOISE ANALYSIS EQUIPMENT
SCL-R-64-40 N64-17761 09-20

SIMULATION OF REVERBERANT ACOUSTIC /RANDOM NOISE/ TESTING BY VIBRATION SHAKER N64-20253 13-10

ERROR STATISTICS ON DATA TRANSMISSION OVER TELEPHONE CIRCUITS WITH RANDOM LINE NOISE INTERFERENCE
AD-603461 N64-30883 22-08

PASSIVE DETECTION OF RANDOM NOISE SIGNALS BY RECEIVERS WITH DISTRIBUTED ELEMENTS
R-297 N64-32087 23-08

RANDOM NOISE OCCURRENCE AND PASSAGE THROUGH AMPLIFICATION CHANNEL IN TELEVISION SYSTEMS
FTD-TT-62-1661/1&2&4 N64-32233 23-08

RANDOM NUMBER
MULTIPLICATIVE CONGRUENTIAL AND MIXED CONGRUENTIAL METHODS FOR RANDOM NUMBERS IN COMPUTER PROGRAMMING
IDO-16921 N64-11093 02-20

FUNDAMENTALS OF MONTE CARLO METHODS IN RANDOM-NUMBER-GENERATION, DISTRIBUTION, AND SAMPLING IN PROBLEMS N64-11865 03-20

TESTING OF RANDOM NUMBER GROUPS WITH ZONE TEST METHOD FOR USE IN STATISTICAL QUALITY CONTROL PROBABILITY N64-11866 03-20

RANDOM NUMBER GENERATION BY FILLING RANDOM INTERVAL OF FIXED FREQUENCY PULSES WITH SUBSEQUENT ENUMERATION - CYBERNETICS
N64-12473 04-20

RANDOM PROCESS
SA MARKOV PROCESS
SA POISSON PROCESS
SA STOCHASTIC PROCESS
LOGARITHMIC AMPLITUDE CHARACTERISTICS FOR CALCULATING ENTROPY OF RANDOM PROCESSES RELATED TO AUTOMATIC CONTROL SYSTEMS
JPRS-19242 N64-10583 01-09

MONTE CARLO METHODS FOR RANDOM PROCESSES AND DIFFERENTIAL EQUATION SOLUTIONS
N64-11864 03-20

MATHEMATICAL TREATMENT BY PROBABILITY THEORY OF RANDOM PULSE PROCESS WITH INDEPENDENT INTERVALS
FTD-TT-62-1147/1&2&4 N64-12625 04-20

OPTIMAL CONTROL OF LINEAR PLANTS WITH RANDOM PARAMETERS
PIBMRI-1200-63 N64-15951 07-20

USE OF PARITY COEFFICIENT AND PARITY FUNCTION FOR DESCRIBING RELATIONSHIP BETWEEN TWO RANDOM VARIABLES, & FOR STUDYING RANDOM PROCESSES
FTD-TT-62-1191/1&2&4 N64-16056 07-20

LOW LEVEL SATELLITE COMMUNICATIONS USING RANDOM ACCESS AND CORRELATION FOR EXTENDED PERFORMANCE
N64-16162 08-08

ZERO CROSSING WITH STATIONARY RANDOM PROCESS FOR PROBABILITY DENSITY PROBLEMS
RES. REPT.-63-4 N64-16943 09-20

RANDOM PROCESS THEORY - PEAK PREDICTION, STRUCTURAL FATIGUE DAMAGE, AND CATASTROPHIC STRUCTURAL FAILURE
NASA-CR-33 N64-17990 10-33

PREDICTING RANDOM FATIGUE CURVE FROM SINE FATIGUE CURVE
N64-18558 11-33

BEHAVIOR OF SECOND ORDER DYNAMIC SYSTEM WITHOUT DAMPING UNDER INFLUENCE OF RANDOM PROCESSES
FTD-MT-63-75/1&2 N64-18760 11-23

SIMULATION OF RANDOM PROCESSES BY DIOPHANTINE APPROXIMATIONS WITH EXPONENTIAL FUNCTIONS
FTD-TT-62-1367/1&2 N64-22389 15-20

COMPARISON OF RANDOM SEARCH METHOD WITH GRADIENT METHODS FOR REGULATION OF MULTIPARAMETER SYSTEM
JPRS-25202 N64-23256 16-20

STATISTICAL PROPERTIES OF NOISE PULSES GENERATED BY RANDOM PROCESSES CROSSING FIXED THRESHOLDS
AF-109 N64-25898 18-08

LAGRANGE MULTIPLIER TECHNIQUE FOR DETERMINING STATIONARY POINTS OF RANDOM FUNCTIONS WITH RANDOM CONSTRAINTS
NASA-CR-58593 N64-28890 20-20

HIGH SPEED DIGITAL COMPUTATION OF NONSTATIONARY RANDOM PROCESS TRANSFER THROUGH NONLINEAR CONTROL SYSTEMS WITH VARIABLE PARAMETERS
N64-29324 21-09

PROBABILITY DENSITY OF PRODUCTS OF NORMAL RANDOM PROCESSES
N64-29467 21-09

RANDOM PROCESS PASSAGE THROUGH INERTIALESS LOGARITHMIC DEVICE
N64-29474 21-09

RANDOM WALKS WITH REFLECTING BARRIER - SOLUTION TO WIENER-HOPF EQUATION
RM-3597-1-PR N64-31917 23-20

OPTIMUM PRIORITY ASSIGNMENT FOR PROCESSING RANDOM ARRIVALS ON SHARED COMPUTER SYSTEM
REPT.-04967-2-T N64-32507 23-20

THEORETICAL ANALYSIS OF FORCED VIBRATION RESPONSE OF ROCKET SLED TO RANDOM EXCITATION DUE TO RAIL ROUGHNESS
NAVWEPS-8546 N64-32538 23-10

ENERGY SPECTRA OF PULSED RANDOM PROCESSES
N64-32922 24-08

THEORY OF RANDOM PROCESSES AND RADIO COMMUNICATION APPLICATIONS
F-TS-9811/V N64-33504 24-09

RANDOM SIGNAL

DETECTION OF ACOUSTIC SIGNALS AND NOISE DEVIATION BY RANDOMNESS TESTER
N64-18560 11-23

INSTRUMENTATION FOR DETERMINATION OF DISTRIBUTION FUNCTIONS OF RANDOM SIGNALS
N64-23533 16-20

PASSAGE OF RANDOM SIGNALS THROUGH LINEAR DYNAMIC SYSTEM WITH DISTRIBUTED PARAMETERS
N64-26386 18-23

TRANSFORMATION OF LINEAR DISCRETE SYSTEM OF RANDOM SIGNALS GIVEN BY CANONICAL EXPANSION
N64-26387 18-09

ADAPTIVE FILTER FOR DETECTION AND RECOGNITION OF RANDOM BINARY SIGNALS
EERL-7 N64-32062 23-08

RANDOM VARIABLE

THEORY OF RANDOM VARIABLES BASED ON PROBABILITY AXIOMS, AND NEW CONCEPTS LEADING TO SCIENCE OF STATISTICAL INFERENCE
CERN-63-29 N64-10153 01-20

CONTINUOUS ESTIMATION OF SEQUENTIALLY CORRELATED STOCHASTIC VARIABLE PROCESSES
NASA-CR-53016 N64-13284 04-20

MATHEMATICAL MODEL FOR DELAY-TIME DISTRIBUTION IN SERVING CUSTOMERS FROM SINGLE FACILITY WITH RANDOM VARIABLES
ORC-63-12 N64-14762 06-20

SEQUENTIAL DESIGN OF EXPERIMENTS WITH TWO RANDOM VARIABLES
CU-7-62-AF-1113-ERL N64-15953 07-20

USE OF PARITY COEFFICIENT AND PARITY FUNCTION FOR DESCRIBING RELATIONSHIP BETWEEN TWO RANDOM VARIABLES, & FOR STUDYING RANDOM PROCESSES
FTD-TT-62-1191/1&2&4 N64-16056 07-20

PRODUCING RANDOM VARIABLES IN COMPUTERS
D1-82-0341 N64-24381 17-20

NONPARAMETRIC MAXIMUM LIKELIHOOD ESTIMATION OF DENSITY FUNCTION OF SAMPLE OF INDEPENDENT IDENTICALLY DISTRIBUTED RANDOM VARIABLES
D1-82-0308 N64-25274 17-20

DISTRIBUTION OF PRODUCTS AND QUOTIENTS OF RANDOM VARIABLES
ARL-64-115 N64-28223 20-20

STABILITY OF SOLUTIONS OF NONLINEAR DIFFERENCE EQUATIONS CONTAINING RANDOM VARIABLES
NASA-CR-58576 N64-28956 20-09

PROBABILITY OF ERROR IN AUTOMATIC CONTROL SYSTEMS WITH RANDOM PARAMETERS OF CONTROL
N64-30221 22-09

CHEBYSHEV TYPE INEQUALITY FOR SUMS OF INDEPENDENT RANDOM VARIABLES
N64-32949 24-20

LINEAR FUNCTIONS OF ORDERED CORRELATED NORMAL RANDOM VARIABLES
N64-33374 24-20

RANDOM VIBRATION

RANDOM VIBRATION COUPLING OF ACOUSTIC EXCITATION STRUCTURE IN ELECTRONIC APPARATUS
ASD-TDR-63-205 N64-11178 02-33

RANDOM VIBRATION TERMINOLOGY AND RANDOM NOISE ANALYSIS EQUIPMENT
SCL-R-64-40 N64-17761 09-20

DYNAMIC ENVIRONMENT, ROCKET EXHAUST NOISE, BOUNDARY LAYER NOISE, AND RANDOM & SINUSOIDAL VIBRATION OF S- IV AND S- IVB VEHICLES
N64-18542 11-30

ANALYZING NONSTATIONARY RANDOM VIBRATION DATA BY USING COMB FILTER METHOD
N64-18555 11-33

EFFECTS OF FILTER BANDWIDTH IN SPECTRUM ANALYSIS OF RANDOM VIBRATION
N64-18557 11-33

COMBINING SINE & RANDOM VIBRATION IN ENVIRONMENTAL TEST LABORATORY
N64-20249 13-34

EQUALIZATION TECHNIQUE FOR RANDOM VIBRATION TESTING MACHINES
N64-20251 13-10

ACOUSTIC AND RANDOM VIBRATION FATIGUE TEST OF STRUCTURAL SKIN PANELS FOR TITAN III ICBM
SSD-CR-64-95 N64-21110 14-33

RANDOM VIBRATIONS OF NONLINEAR ELASTIC BARS AND PLATES
AFOSR-64-0887 N64-27539 19-33

RANDOM VIBRATION SPECTRUM OF NONLINEAR OSCILLATOR
AFOSR-64-1057 N64-30914 22-33

HUMAN PERFORMANCE DURING SINUSOIDAL AND RANDOM VIBRATION IN LOW SPEED, HIGH ALTITUDE FLIGHT
N64-31512 23-14

RANDOM VIBRATION IN AEROSTRUCTURES AND RELATION TO MECHANICAL FAILURE
AD-447952 N64-32361 23-33

RANGE
SA MISSILE RANGE
SA RADAR RANGE
SIMULATION APPARATUS FOR ENTRY OF LONG-RANGE BALLISTIC MISSILES INTO EARTH ATMOSPHERE
NASA-TN-X-51119 N64-10340 01-10

EVALUATION OF NOISE IMMUNITY OF AUTOMATIC-PULSE RADIO RANGEFINDER UNDER SEARCH CONDITIONS
FTD-TT-63-776/1&2 N64-14336 06-09

RANGING/ALTITUDE INDICATOR FOR COLLISION AVOIDANCE NAVIGATION
RD-64-5 N64-16254 08-10

ALTITUDE, VELOCITY, AND RANGE LIMITATIONS ON AIRCRAFT FLIGHT
FTD-TT-63-788/1 N64-16387 08-04

ABORT TRAJECTORY RANGE AND CAPABILITY OF SATURN S-IV STAGE AND SERVICE MODULE N64-16524 08-29

NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY - LONG RANGE PHOSPHORUS-HYDROGEN SPIN-SPIN COUPLING
AROD-2276-6 N64-17482 09-23

NUMERICAL COMPUTATIONS FOR SEARCH OF LONG RANGE RAYS INVOLVING CONVENTIONAL PROPAGATION MODES
N64-20313 13-08

RANGE AND RANGE RATE SYSTEM AND DATA ANALYSIS FOR SYNCOM I SATELLITE
NASA-TN-D-2139 N64-21264 14-08

RANGE AND RANGE RATE SPACECRAFT TRACKING SYSTEM
NASA-TN-D-2093 N64-21423 14-08

LUNAR OPTICAL RANGING EXPERIMENT USING LASERS
AFCRL-63-908 N64-21669 15-08

GRAVITATIONAL ACCELERATION METHOD FOR SMOOTHING RANGE AND RANGE RATE TRACKING MEASUREMENTS
TM-0930-2 N64-25372 17-23

ACCURACY OF DRAG AND STABILITY MEASUREMENTS IN BALLISTICS RANGE
CARDE-TR-485/63 N64-26099 18-04

HIGH VELOCITY GUNS FOR FREE FLIGHT RANGES
N64-26145 18-02

RANGE AND RANGE RATE TRACKING SYSTEM FOR ADVANCED TECHNOLOGICAL SATELLITE
NASA-CR-60017 N64-28998 20-10

VEHICLE MASTER OSCILLATOR & FREQUENCY SYNTHESIZER FOR AIRBORNE RANGE & ORBIT DETERMINATION SYSTEM
NASA-CR-58698 N64-29505 21-08

NONRANDOM RANGE, AZIMUTH, AND ELEVATION RESIDUALS INDUCED AT OBSERVATION SITE
TDR-269/4110-01/-46 N64-29682 21-08

SURVEY DATA OF RANGE INSTRUMENTATION STATIONS
AD-442881 N64-32291 23-12

RANGE INSTRUMENT CALIBRATION SATELLITE
AEDR-2135 N64-32393 23-32

LONG RANGE COMMUNICATION BY REFLECTIONS FROM ORBITING METALLIC FIBERS - WEST FORD PROJECT
AD-443271 N64-32868 24-08

VEHICLE RANGE EXTRACTION UNIT FOR AUTOMATIC RANGING & ORBIT DETERMINATION SYSTEM
NASA-CR-58885 N64-33204 24-08

TRAJECTORY OF HYPERSONIC AERODYNAMIC LIFTING REENTRY VEHICLE IN BALLISTIC RANGE
CARDE-TR-512/64 N64-33471 24-02

ULTRA LONG-RANGE TELEMETRY - SIGNAL TRANSMISSION AND DETECTION, AND INFORMATION PROCESSING
AL-TDR-64-87, VOL. I N64-33790 24-08

ULTRA LONG RANGE TELEMETRY STUDY - ANALOG VERSUS DISCRETE SYSTEMS
AL-TDR-64-87, VOL. II N64-33791 24-08

RANGE MEASUREMENT
COMPUTER PROGRAM FOR LONG LINE AZIMUTH DETERMINATION FROM RANGE & OPTICAL MEASUREMENTS
AFCRL-63-740 N64-12234 03-20

ARRANGEMENT OF ELECTRONIC RANGEFINDER TO MEASURE SMALL DISTANCES
FTD-TT-62-1732/1&2 N64-12317 03-09

LASER RANGING SYSTEM - SIGHTING TELESCOPE, TRANSMITTER, RECEIVER OPTICS N64-12564 04-25

CODING FOR TRACKING RADAR RANGING
AD-416649 N64-14028 05-08

C-BAND TELEMETRY SYSTEM FOR POLARIS MISSILE RANGE MEASUREMENT N64-16155 08-08

DETERMINATION OF TRACKING STATION LOCATIONS BY DOPPLER AND RANGE MEASUREMENTS TO EARTH SATELLITE
NASA-CR-53196 N64-17226 09-29

RADAR EQUIPMENT, SIGNAL PROCESSING, RANGE MEASUREMENT, AND MICROWAVE COMPONENTS
ESD-TDR-64-41 N64-20300 13-09

ATMOSPHERIC REFRACTION EFFECTS IN MICROWAVE MEASUREMENTS OF RANGE AND AZIMUTH
NBS-8231 N64-20431 13-08

RANGE MEASUREMENT WITH RADIO WAVES USING PHASE SHIFT, FREQUENCY MODULATION, AND PULSED RADIATION METHODS N64-24637 17-09

HIGH RESOLUTION RANGE COUNTER N64-24860 17-09

MISSILE RANGE INSTRUMENTATION - SYSTEMS CONFIGURATION AND CONTROL N64-24861 17-15

RANGE MEASUREMENTS FOR MUONS IN BILLION ELECTRON VOLT REGION
CERN-64-31 N64-27658 19-23

VELOCITY AND RANGE MEASUREMENTS WITH CONTINUOUS WAVE /CW/ RADARS
NASA-CR-58600 N64-28971 20-08

REAL TIME COMPENSATION FOR TROPOSPHERIC RADIO REFRACTIVE EFFECTS ON RANGE MEASUREMENTS
NASA-CR-109 N64-31205 22-08

RANGEFINDING
EVALUATION OF NOISE IMMUNITY OF AUTOMATIC-PULSE RADIO RANGEFINDER UNDER SEARCH CONDITIONS
FTD-TT-63-776/1&2 N64-14336 06-09

DIGITAL TIME-INTERVAL COUNTER FOR RANGE READING DISPLAY WHEN COUPLED TO LASER RANGEFINDER
HDL-TR-1199 N64-24331 17-15

HUMAN FACTORS ENGINEERING STUDY OF DESIGN CONFIGURATIONS FOR LASER RANGE FINDER
R-1664 N64-32024 23-15

RANGER II LUNAR PROBE
MISSION AND PREPARATION OF RANGER B LUNAR PROBE
N64-26423 18-32

RANGER III LUNAR PROBE
RANGER III LUNAR PROBE STUDY OF GAMMA RADIATION FROM LUNAR SURFACE N64-22436 15-28

TELEVISION PICTURES OF LUNAR SURFACE TAKEN DURING BLOCK III RANGER FLIGHTS
NASA-CR-56289 N64-22461 15-32

OPERATIONS RESEARCH FOR RANGER BLOCK III PROJECT SYSTEMS
NASA-CR-56667 N64-26355 18-30

RANGER IV LUNAR PROBE
STEADY-STATE CHARACTERISTICS OF DIFFERENTIAL PRESSURE SYSTEM FOR EVALUATING ANGLES OF ATTACK AND SIDESLIP OF RANGER IV VEHICLE
NASA-TN-D-1966 N64-10519 01-02

DEEP SPACE INSTRUMENTATION FACILITY /DSIF/ SPACECRAFT TRACKING PERFORMANCE DURING RANGER IV LUNAR PROBE MISSION
NASA-CR-56559 N64-23520 16-22

RANGER V LUNAR PROBE
RANGER V SPACECRAFT FLIGHT PATH DETERMINATION FROM TRANSPONDER AND BEACON TRACKING DATA
NASA-CR-56567 N64-24102 16-08

RANGER VI LUNAR PROBE
RANGER VI PROBE LAUNCHING - LUNAR PHOTOGRAPHIC MISSION N64-13938 05-32

SPACE FLIGHT PROGRAM OF OPERATIONAL FACILITES AND SUPPORT EQUIPMENT FOR RANGER BLOCK III MISSION
NASA-CR-53038 N64-14744 06-32

RANGER BLOCK III SPACE FLIGHT OPERATIONS PLAN - TELEVISION PICTURES OF LUNAR SURFACE
NASA-CR-53036 N64-14745 06-32

RANGER VII LUNAR PROBE
DISCUSSION OF PRELIMINARY RESULTS OF RANGER VII LUNAR PROBE N64-27666 19-29

RANGER VII LUNAR PROBE - FLIGHT CHRONOLOGY, LAUNCH VEHICLE, SPACECRAFT, AND PHOTOGRAPHY N64-28342 20-32

SUMMARY OF MISSION OF RANGER VII LUNAR PROBE AND NATURE OF LUNAR SURFACE N64-29388 21-32

RANGER VII LUNAR PHOTOGRAPHS, CAMERA A SERIES - LUNAR SURFACE CLOSEUP PICTURES
NASA-SP-61 N64-31723 23-29

RANGER LUNAR LANDING VEHICLE
DISPERSION AND ERROR IN GUIDANCE EFFECT ON RANGER LUNAR LANDING - MONTE CARLO METHOD ANALYSIS
NASA-CR-52540 N64-10336 01-32

LUNAR LANDING SYSTEM DEVELOPED AS PART OF RANGER PROJECT FOR EXTENDED SEISMOMETER EXPERIMENT
NASA-CR-53814 N64-19316 12-32

SPIN-UP STUDY FOR RANGER LANDING SYSTEM
U-2252, VOL. 3 N64-21499 15-32

DISPERSION PERFORMANCE FOR RANGER LANDING SYSTEM
U-2252, VOL. 1 N64-21821 15-32

LUNAR MISSION - FUNCTION AND PERFORMANCE OF RANGER LANDING SYSTEM ALTIMETER
U-2252, VOL. 2 N64-22227 15-15

RANGER PROJECT
SCIENCE SUBSYSTEM OPERATION FOR RANGER PROJECT FOLLOW-ON SPACECRAFT
NASA-CR-53022 N64-13264 04-28

RANGER & SURVEYOR PROJECTS, DEEP SPACE INSTRUMENTATION FACILITY, AND MARINER C & II
NASA-CR-53058 N64-15793 07-29

LUNAR LANDING SYSTEM DEVELOPED AS PART OF RANGER PROJECT FOR EXTENDED SEISMOMETER EXPERIMENT
NASA-CR-53814 N64-19316 12-32

CONGRESSIONAL HEARING ON NASA PROGRAM FOR RANGER PROJECT N64-23014 16-01

NASA PROGRAM - RANGER PROJECT REPORT TO CONGRESS N64-24973 17-32

TRACKING AND DATA ACQUISITION FOR RANGER MISSIONS ONE THROUGH FIVE
NASA-CR-58537 N64-28759 20-10

RANGER BLOCK III LAUNCH CONSTRAINTS FOR EACH DAY OF LAUNCH PERIOD - LAUNCH WINDOW DESIGN
NASA-CR-56799 N64-29552 21-31

SPACE PROGRAM SUMMARIES - RANGER PROJECT, SURVEYOR PROJECT, MARINER PROJECT, DEEP SPACE COMMUNICATION SYSTEM, AND SPACE INSTRUMENT DEVELOPMENT
NASA-CR-59340 N64-33813 24-32

RANKINE CYCLE
STEAM RANKINE CYCLE SOLAR POWER SYSTEM
NASA-TM-X-51110 N64-14264 06-06

SUNFLOWER SOLAR RANKINE SYSTEM DEVELOPMENTAL TEST RIGS, MERCURY COMPATABILITY, AND CORROSION PRODUCT TRAPPING EXPERIENCE
ER-5302 N64-18337 10-06

BINARY RANKINE CYCLE SPACE POWERPLANT
ER-5925 N64-22335 15-06

CORROSION RESISTANCE OF CHROMIUM-STEEL TO MERCURY IN RANKINE CYCLE POWER SYSTEM
NASA-CR-54066 N64-25067 17-06

STABILITY OF CONDENSING STEAM FLOW INSIDE TUBES FOR RANKINE CYCLE SPACE POWERPLANT DESIGN
NASA-CR-54178 N64-31716 23-06

NUCLEAR RANKINE CYCLE SPACE POWERPLANT SIMULATION USING DIRECT-CONDENSING RADIATOR - STARTUP AND TRANSIENT OPERATION
NASA-CR-54179 N64-33853 24-27

RARE EARTH
SA CERIUM
SA DYSPROSIUM
SA ERBIUM
SA EUROPIUM
SA GADOLINIUM
SA HOLMIUM
SA LANTHANUM
SA NEODYMIUM
SA PRASEODYMIUM
SA PROMETHIUM
SA PROTACTINIUM
SA SAMARIUM
NEUTRON ACTIVATION ANALYSIS OF RARE EARTH ELEMENTS BETA DECAY, GAMMA RAY SPECTROSCOPY, & ION EXCHANGE SEPARATION
JPRS-18861 N64-10645 01-18

CRYSTALLOCHEMICAL STRUCTURE OF RARE EARTH BORIDES RELATED TO THERMIONIC EMISSION AND MAGNETIC, ELECTRIC, AND THERMOELECTRIC PROPERTIES N64-10675 02-19

EXPOSURE OF DISLOCATIONS IN RARE EARTH CRYSTALS
JPRS-17638 N64-10705 02-18

SOVIET CONFERENCES ON METALLURGY - PROCESSES, DREDGES, HEAVY METAL CHLORIDE SOLUTIONS, WELDING, RARE EARTHS, POWDER, AND RELAXATION PHENOMENA
JPRS-21636 N64-11264 02-18

THEORETICAL INTERPRETATION OF MAGNETIC PROPERTIES OF RARE EARTH METALS - ROLE OF CONDUCTION ELECTRONS
AD-423382 N64-11764 03-27

TETRACYCLINE AND RARE EARTH METAL CHEMISTRY
JPRS-22766 N64-13585 05-01

REFRACTIVE INDEX OF RARE EARTH OXIDIZED METAL COMPOUNDS IN GLASS N64-13586 05-23

EVIDENCE FOR NEW REGION OF NUCLEAR DEFORMATION IN NEUTRON-DEFICIENT RARE EARTH METALS PRODUCING NEUTRON-DEFICIENT LANTHANUM ISOTOPES
UCRL-10798 N64-15241 07-23

INFRARED AND CHEMICAL STUDY ON CRYSTALS OF RARE-EARTH ETHYLENEDIAMINE TETRAACETIC ACID CHELATES
AEET/CD/16 N64-15720 07-25

SPIN-LATTICE RELAXATION IN RARE EARTH SALTS
AFCRL-63-576 N64-16494 08-25

METALLOGRAPHY AND X-RAY DIFFRACTION STUDY OF SAMARIUM-TYPE INTERMEDIATE PHASE IN RARE EARTH BINARY SYSTEMS
DRI-2141 N64-17278 09-25

ELECTRON SPIN RESONANCE AND NUCLEAR MOMENTS OF RARE EARTH METALS
AFCRL-63-531 N64-17322 09-23

ABUNDANCE OF RARE EARTH ELEMENTS, YTTRIUM AND

SCANDIUM, IN NAKHLITIC ACHONDRITES - METEORITE COMPOSITION
N64-17561 09-05

IONIC DIFFUSION AND ACTIVATION OF AQUEOUS RARE-EARTH CHLORIDE SOLUTIONS
IS-770 N64-17739 09-23

DIODE FLUORESCENCE DETECTION OF ZINC DIFFUSION INTO RARE-EARTH DOPED GALLIUM ARSENIDE AND INDIUM PHOSPHATE
N64-17875 10-25

RARE EARTH, YTTRIUM, AND SCANDIUM ABUNDANCES IN METEORITIC AND TERRESTRIAL MATTER
NASA-CR-50173 N64-18322 10-05

SEPARATION & DETERMINATION OF RARE EARTH IN ZIRCONIUM RARE-EARTH ALLOYS THROUGH CHEMICAL REACTION
BM-RI-6430 N64-18988 11-07

SOLVENT EXTRACTION STUDY OF MONAZITE RARE EARTH NITRATES, NITRIC ACID, WATER, AND TRIBUTYL PHOSPHATE
IS-780 N64-19003 11-07

ELECTRIC QUADRUPOLE INTERACTIONS IN RARE EARTH IONS
AMRA-TR-63-33 N64-19106 11-23

SPECTROSCOPIC PROPERTIES OF RARE EARTH CHELATE COMPOUNDS SUITABLE FOR HIGH POWER LASERS
EOS-3180-FINAL N64-19737 12-25

ELECTRIC PROPERTIES OF SELECTED RARE EARTH METALS AND COMPOUNDS
RTD-TDR-63-4231 N64-19933 12-25

SEPARATION OF RARE EARTH ELEMENTS BY PAPER PHASE CHROMATOGRAPHY USING TRINORMAL OCTA-AMINE AMMONIUM NITRATE SYSTEMS
N64-20659 13-07

FLUORESCENCE AND ABSORPTION OF RARE EARTH IONIC AND TRANSITION METAL IONIC SOLIDS - OPTICAL MASERS
AD-428961 N64-21051 14-25

VARIATION OF PERIODICITY OF MAGNETIC STRUCTURE WITH DILUTION AND TEMPERATURE FOR HEAVY RARE-EARTH METALS
AFCRL-64-199 N64-21713 15-25

SOLVENT EXTRACTION OF RARE EARTHS, CERIUM, AND STRONTIUM USING 2-DIETHYLHEXYL PHOSPHORIC ACID
HW-79762, PT. 2 N64-21736 15-07

INORGANIC RARE EARTH OXIDES, RADIATION EMANATION OF NEODYMIUM IONS, TANTALUM CALCITE, & LEAD OXIDE-BISMUTH OXIDE
JPRS-24372 N64-21857 15-07

LIGHT & SPECTROSCOPIC PROPERTIES OF INORGANIC VITREOUS RARE EARTH OXIDE
N64-21858 15-07

RARE EARTH DOPED SILICON
AFCRL-64-406 N64-24917 17-25

EXCITATION OF TRIVALENT RARE EARTH ION LASERS AND OTHER SOLID STATE LASER STUDIES
IER-1 N64-25090 17-25

SOLVENT EXTRACTION OF STRONTIUM, CERIUM AND RARE EARTHS FROM PUREX ACID WASTE BY DIETHYLHEXYL PHOSPHORIC ACID
HW-79762, PT. 1 N64-25978 18-07

CLEAVAGE ENERGY OF BORON BOND AND PHYSICAL PROPERTIES OF RARE EARTH TITANATES
JPRS-25530 N64-26398 18-07

PREPARATION AND PHYSICAL PROPERTIES OF RARE EARTH TITANATES
N64-26400 18-18

BEHAVIOR OF TETRA AND DIVALENT RARE EARTHS IN METALLIC COMPOUNDS
AD-439982 N64-26420 18-18

THEORY OF ZEEMAN EFFECT FOR RARE EARTH IONS IN CRYSTAL FIELD
IS-871 N64-26467 18-25

SOLID STATE RESEARCH - DEVICE DESIGN & MATERIALS, BAND STRUCTURE & SPECTROSCOPY, TRANSITION-METAL & RARE-EARTH COMPOUNDS, AND OPTICS
AD-439686 N64-26649 18-25

RARE EARTH COMPOUND PURIFICATION BY ION EXCHANGE EQUIPMENT
N64-27207 19-07

FLUORESCENT ION INTERACTION - ENERGY TRANSFER BETWEEN RARE EARTH IONS IN TUNGSTATES, QUENCHING INTERACTIONS, AND FLUORESCENCE OF MANGANESE DIFLUORIDE
SRRC-RR-64-39 N64-27989 20-25

INTERACTION OF RARE EARTH IONS, FLUORESCENCE QUENCHING, AND ION FLUORESCENCE IN CONCENTRATED MANGANESE SYSTEMS
N64-27990 20-25

ENERGY TRANSFER BETWEEN RARE EARTH IONS IN TERBIUM-EUROPIUM TUNGSTATES
N64-27991 20-25

ENERGY TRANSFER BETWEEN SAMARIUM, EUROPIUM, TERBIUM, AND DYSPROSIUM IONS IN SODIUM RARE EARTH TUNGSTATES
N64-27992 20-25

RADIAL DEPENDENCE OF QUENCHING INTERACTION BETWEEN RARE EARTH IONS
N64-27993 20-25

CATALYTIC ACTIVITY OF RARE EARTH COMPOUNDS IN DIRECTED POLYMERIZATION
N64-28043 20-07

NAPHTHENIC ACID SOLVENT EXTRACTION OF RARE EARTH SULFATES
BM-RI-6396 N64-28456 20-07

CHEMICAL SEPARATION OF CERIUM FROM TRIVALENT RARE EARTHS - FISSION PRODUCT SEPARATION FOR WASTE PROCESSING
HW-78987, REV. N64-28782 20-07

WEAK FERROMAGNETISM IN ORTHOFERRITES CONTAINING PARAMAGNETIC RARE EARTHS - ANTISYMMETRIC EXCHANGE MECHANISM
TN-2 N64-29613 21-25

CURIE TEMPERATURES OF ORTHOFERRITES OF RARE EARTH METALS
TN-3 N64-30028 21-25

STRUCTURE AND ION EXCHANGE PROPERTIES OF MOLTEN SODIUM BORATE USING RARE RADIOACTIVE TRACERS
USNRDL-TR-760 N64-30880 22-07

SAMARIUM TYPE INTERMEDIATE PHASES OF INTRA-RARE EARTH BINARY SYSTEM
TR-1 N64-31276 22-18

GROWTH & CHARACTERIZATION OF SINGLE CRYSTALS OF RARE EARTH COMPOUNDS
QTR-1 N64-31625 23-25

METAL SURFACE IONIZATION IN ELECTRIC FIELD, CESIUM IONIZED PLASMA FORMATION, AND IONIZATION COEFFICIENTS OF RARE EARTH ELEMENTS
JPRS-26723 N64-32806 24-23

SYNTHESIS AND PHYSICAL-CHEMICAL PROPERTIES OF RARE EARTH CARBIDES, NITRIDES, AND SILICIDES
JPRS-26877 N64-32884 24-07

EFFECTS OF YTTRIUM & RARE EARTH METAL ADDITIONS ON ELECTROREFINED VANADIUM
BM-RI-6553 N64-33436 24-18

INTENSITY OF STRONTIUM-90, CESIUM 137, & RADIOACTIVE RARE EARTH PARTICLES IN RAIN AND AIR
LAMS-2878 N64-33469 24-21

MAGNETIC PROPERTIES OF RARE EARTH-IRON ALLOYS
GNE/PHYS/64-12 N64-33816 24-25

RARE EARTH ALLOY
METALLURGY - RARE EARTH, HAFNIUM CARBIDE, THORIUM, URANIUM NITRIDE, & TUNGSTEN-RHENIUM ALLOYS
USBM-U-1082 N64-10253 01-18

ALLOYS OF RARE EARTH METALS WITH BORON AND SILICON
JPRS-17750 N64-10717 02-09

RARE EARTH ALLOYS, HAFNIUM CARBIDE, THORIUM ALLOY, MELTING & CASTING METHODS, AND TUNGSTEN-RHENIUM TUBING DEVELOPMENTS
USBM-U-1091 N64-15838 07-18

FORMATION CONSTANTS OF SOME RARE EARTH COMPLEXES
IS-727 N64-15925 07-07

SEPARATION & DETERMINATION OF RARE EARTH IN ZIRCONIUM RARE-EARTH ALLOYS THROUGH CHEMICAL REACTION
BM-RI-6430 N64-18988 11-07

RARE EARTH ALLOY, HAFNIUM CARBIDE, THORIUM ALLOY, URANIUM-CARBON-OXYGEN SYSTEM, TUNGSTEN-RHENIUM TUBING, & COLD-MOLD MELTING RESEARCH
USBM-U-1109 N64-19030 11-18

X-RAY FLUORESCENCE ANALYSIS OF RARE EARTH ALLOYS WITH MANGANESE
AD-428773 N64-19931 12-23

EXAMINATION OF RARE EARTH MANGANESE ALLOYS BY METALLOGRAPHIC AND X-RAY METHODS
TN-5 N64-20401 13-18

VARIATION OF PERIODICITY OF MAGNETIC STRUCTURE WITH DILUTION AND TEMPERATURE FOR HEAVY RARE-EARTH METALS
AFCRL-64-199 N64-21713 15-25

METALLURGY - RARE EARTH ALLOY DEVELOPMENT, HAFNIUM CARBIDE CASTING, THORIUM ALLOY SYSTEMS, COLD-MOLD INDUCTION MELTING, & URANIUM ALLOY SYSTEMS
USBM-RC-1122 N64-26482 18-18

ALLOYING CHARACTERISTICS OF RARE EARTH ELEMENTS WITH TRANSITION ELEMENTS
IITRI-578P19-13 N64-29755 21-18

RARE GAS
SA ARGON
SA HELIUM
SA KRYPTON
SA NEON
SA RADON
SA XENON
CALCULATION OF HEATS OF VAPORIZATION AND FUSION OF RARE GASES FROM ISOTHERMAL REVERSIBLE WORK REQUIRED TO COMPRESS FLUIDS
NAA-SR-8879 N64-10364 01-07

FREE POSITRON ANNIHILATION MEAN LIFETIMES IN RARE AND DIATOMIC GASES IN LIQUID AND SOLID STATES
NASA-RP-140 N64-16689 08-23

PRODUCTION CROSS SECTIONS OF TRITIUM AND RARE GASES IN OLIVINE AND STONY METEORITES
CERN-64-12 N64-18145 10-23

SHOCK TUBE DEVELOPMENT - DOWNSTREAM IONIZATION OF RARE GASES AND RELAXATION IN TRIATOMIC LINEAR MOLECULAR GASES
TN-130 N64-20422 13-11

DEVIATION FROM IDEAL DIFFUSION BEHAVIOR OF FISSION RARE GASES IN REACTOR MATERIALS
EUR-595.E N64-20832 14-23

RARE GAS DIFFUSION IN SOLIDS
EUR-259.D N64-21705 15-25

PHOTOIONIZATION CROSS SECTIONS OF RARE GASES
NASA-CR-68 N64-24399 17-23

PHYSIOLOGICAL EFFECTS OF ARGON, HELIUM, AND RARE GASES ON CELLULAR SYSTEMS
AD-600641 N64-25925 18-16

RADIOACTIVE DATING OF LUNAR SURFACE BY RARE GAS ISOTOPE CONCENTRATION MEASUREMENTS
NASA-CR-56792 N64-27884 20-07

QUANTITATIVE ANALYSES BY OPTICAL EMISSION SPECTROSCOPY OF ENERGY EXCHANGE MECHANISMS IN RARE GASES AND SOLIDS
AD-442965 N64-30618 22-23

ENERGY LOSS IN FAST IONS OF RARE GASES AFTER COLLISION WITH HELIUM AND NEON ATOMS
NASA-TT-F-8941 N64-30835 22-11

RAREFACTION WAVE
DIFFERENTIAL EQUATIONS FOR HYDRODYNAMIC PROBLEM OF SHOCK WAVES AND TWO RAREFACTION WAVES MOVING IN OPPOSITE DIRECTIONS
LA-3007 N64-19282 11-24

RAREFIED GAS
RAREFIED GASES - SOLUTION OF LINEARIZED BOLTZMANN INTEGRAL EQUATION FOR SOUND PROPAGATION IN MAXWELL GAS AND RIGID SPHERE GAS
AFCRL-63-880 N64-11464 03-23

TWO-FLUID MODEL FOR THE TRANSITION REGIME IN HYPERSONIC RAREFIED GAS DYNAMICS
AD-424157 N64-12272 03-11

HEAT EXCHANGE IN RAREFIED GAS AT SUPERSONIC SPEEDS
RM-3016-PR N64-14296 06-13

RAREFIED GAS AND GAS FLOW PROBLEMS
FTD-TT-63-509/1&2&4 N64-16598 08-23

FREE MOLECULAR FLOW OF RAREFIED GAS PAST CYLINDRICAL BODIES N64-16599 08-23

RELAXATION MODEL OF BOLTZMANN EQUATION FOR AERODYNAMICS OF RAREFIED GASES N64-16600 08-23

MODEL FOR TRANSITION REGIME IN HYPERSONIC RAREFIED GAS DYNAMICS
R63SD85 N64-17435 09-11

AERODYNAMIC DRAG OF BLUNT CONES IN HYPERSONIC RAREFIED FLOW OF NITROGEN AND ARGON
AEDC-TDR-64-60 N64-19067 11-02

CONVECTIVE HEAT TRANSFER COEFFICIENTS IN RAREFIED GAS
FTD-TT-62-978/1&4 N64-19179 11-13

RAREFIED GAS & PLASMA MECHANICS
ARL-64-60 N64-22698 15-24

MONTE CARLO SOLUTION FOR HIGHLY RAREFIED IONIZED GAS FLOWING THROUGH CHANNEL WITH TRANSVERSE MAGNETIC FIELD
NASA-TM-X-52033 N64-24105 16-24

COMPUTER PROGRAMS FOR COMPUTATION OF PARTICLE DENSITY DISTRIBUTION ABOUT OBJECT MOVING THROUGH RAREFIED GAS
ARA-F-9221-4 N64-26708 18-11

HEAT TRANSFER FOR LAMINAR SLIP FLOW OF RAREFIED GAS BETWEEN PARALLEL PLATES WITH UNSYMMETRICAL WALL HEAT FLUX
NASA-TN-D-2421 N64-26780 18-13

SLIP FLOW AND TEMPERATURE JUMP BOUNDARY CONDITIONS FOR RAREFIED GASES
NASA-RP-294 N64-28230 20-11

DENSITY, PRESSURE, AND COMPOSITION OF RAREFIED GAS LAYERS OF ATMOSPHERE FROM ROCKET OR SATELLITE RECORDINGS N64-32334 23-12

FLOW AND HEAT TRANSFER BETWEEN HEATED PLATES OF FINITE LENGTH IN FREE MOLECULE FLOW ENVIRONMENTS
NASA-TN-D-2209 N64-32837 24-11

HIGHLY RAREFIED IONIZED GAS FLOW THROUGH CHANNELS WITH TRANSVERSE MAGNETIC FIELDS - MONTE CARLO SOLUTION
NASA-TN-D-2211 N64-32839 24-11

HEAT TRANSFER FOR LAMINAR SLIP FLOW OF RAREFIED GAS IN CHANNEL OR TUBE WITH UNIFORM WALL TEMPERATURE
NASA-TN-D-2213 N64-33081 24-13

RAREFIED GAS DYNAMICS
CYLINDER DRAG FORCES IN HYPERSONIC FREE JET OF RAREFIED AIRSTREAM
AS-64-3 N64-17280 09-02

MODEL FOR TRANSITION REGIME IN HYPERSONIC RAREFIED

GAS DYNAMICS
R63SD85 N64-17435 09-11

PROPAGATION OF FREE SOUND WAVES IN RAREFIED GAS DYNAMICS
REPT.-562/07/-58 N64-29815 21-11

PROPAGATION OF FORCED SOUND WAVES IN RAREFIED GAS DYNAMICS
REPT.-562/07/-59 N64-29816 21-11

CONSTRUCTION OF EQUATIONS WITH APPROXIMATE SOLUTIONS TO PROBLEMS OF AERODYNAMICS OF RAREFIED GASES
FTD-MT-64-114 N64-30647 22-11

ORIFICE EFFECT ON PRESSURE MEASUREMENT IN RAREFIED GAS FLOW
AEDC-TDR-64-175 N64-31066 22-11

HIGH TEMPERATURE MAGNETOGASDYNAMICS, GAS DYNAMICS OF REAL AND CHEMICALLY REACTING GASES, AND DYNAMICS OF RAREFIED GASES
AD-601730 N64-31100 22-24

STATIONARY ROTATION OF RAREFIED GAS MASS GRAVITATING IN MAGNETIC FIELD
NASA-TT-F-8972 N64-33380 24-24

RAREFIED PLASMA
KINETIC EQUATION FOR INTERACTING SHOCK WAVES IN NONEQUILIBRIUM RAREFIED PLASMA
FTD-MT-63-96/1&2&3&4 N64-14380 06-24

RAREFIED GAS & PLASMA MECHANICS
ARL-64-60 N64-22698 15-24

HYDRODYNAMIC EQUATIONS OF RAREFIED PLASMA FOR CASES OF CYLINDRICAL SYMMETRY N64-23482 16-24

KINETIC THEORY OF FREE MOLECULAR FLOW OF NEUTRAL GASES AND MECHANICS OF HIGHLY RAREFIED PLASMAS
UTIAS-18 N64-24864 17-24

RAT
IMMUNOLOGICAL REMOVAL OF IODINE-131 LABELED RABBIT ANTIBODY TO RAT FIBRINOGEN IN NORMAL AND TUMOR-BEARING RATS
UR-634 N64-10190 01-16

TRAINING FOR OXYGEN DEFICIENCY IN WHITE RATS IMMEDIATELY AFTER SEVERE BURN INJURY
JPRS-21999 N64-10391 01-16

EFFECT OF SEX HORMONES ON ACUTE RADIATION SICKNESS IN RATS AND MICE
JPRS-22000 N64-10392 01-16

FREE RADICALS IN RAT LIVER LIPIDS & ELECTRON PARAMAGNETIC RESONANCE SIGNALS FROM LIGHT IN CRYSTALLINE CHLOROPHYLL & ITS INFRARED SPECTRA
JPRS-18213 N64-10572 01-07

TRANSFER OF STRONTIUM 90 THROUGH MILK IN LACTATING MONKEYS AND RATS
UR-635 N64-10616 01-16

EFFECT OF GAMMA RADIATION ON HISTOLOGICAL AND HISTOCHEMICAL STRUCTURES OF RAT SEX GLANDS
JPRS-22017 N64-10664 01-16

EFFECT OF SODIUM GALLATE ON NUCLEIC ACID CONTENT OF ORGANS OF HEALTHY AND IRRADIATED RATS
JPRS-19355 N64-11217 02-16

EFFECT OF ASCORBIC ACID ON FUNCTION OF STRESSED SUPRARENAL GLANDS OF RATS IN HIGH TEMPERATURE ENVIRONMENT
JPRS-20011 N64-11319 02-16

EFFECT OF PROTECTIVE-THERAPEUTIC COMBINATIONS ON GAMMA RADIATION SICKNESS IN RATS
JPRS-22123 N64-11358 02-16

CONDITIONED RESPONCE OF WHITE RATS OBSERVED AFTER SPACE FLIGHT N64-11676 03-16

CHEMICAL ANALYSIS AND COMPOSITION OF MITOCHRONE AND CYTOCHROME OXIDASE FROM RAT LIVER MITOCHONDRIA
NADC-MA-6319 N64-12255 03-16

BIOLOGICAL EFFECT OF IONIZING RADIATION ON RATS
JPRS-19163 N64-12432 04-16

BIOLOGICAL EFFECT OF LOW DOSES OF RADIOACTIVE ISOTOPES - SODIUM-24 AND PHOSPHORUS-32 IN RATS, RABBITS, AND DOGS N64-12433 04-16

EXCRETION RATE OF RADIACTIVE SODIUM FROM RATS AND RABBITS FOR INTERNAL RADIATION DOSES CALCULATION
N64-12434 04-16

GAMMA RADIOACTIVITY OF RATS AND WATER PHANTOMS BY COBALT-60 AND CERIUM-144 N64-12435 04-16

EXCRETION RATE OF BROMINE-82, RUBIDIUM-86, AND IODINE-131 FROM RATS N64-12436 04-16

ALGAE FOR HUMAN NUTRITION AND CALCIUM & PHOSPHORUS USED TO REDUCE STRONTIUM-90 CONTENT OF RAT SKELETON
JPRS-22295 N64-12442 04-16

CALCIUM AND PHOSPHORUS DIETARY SUPPLEMENT AS MEANS OF REDUCING STRONTIUM-90 ACCUMULATION IN SKELETAL BONES OF RATS N64-12444 04-16

NUCLEIC ACID METABOLISM IN RAT SPLEEN AND BONE MARROW DURING ACUTE RADIATION SICKNESS
N64-12781 04-16

TOXICITY OF RAT BLOOD PLASMA DURING RADIATION SICKNESS N64-12783 04-16

REGENERATION OF RAT LIVER AFTER LOCAL X-RAY IRRADIATION N64-12796 04-16

EFFECT OF ULTRAVIOLET RADIATION ON RADIATION SICKNESS IN RATS N64-12803 04-16

IONIZING RADIATION EFFECT ON THIOPHOSPHATE OXIDIZING ENZYME IN RAT LIVER - BIOCHEMISTRY
N64-13503 05-16

METABOLIC STUDIES OF AMINO ACID IMBALANCE IN RATS EXPOSED TO COLD TEMPERATURES
AAL-TDR-63-33 N64-13632 05-16

EFFECT OF COLD ON PROTEIN METABOLISM IN RATS
TN-62-11 N64-13830 04-16

CHANGES IN EPITHELIUM OF RATS UNDER INFLUENCE OF RADIATION
JPRS-22556 N64-14251 06-16

REPARATIVE REGENERATION OF CUTANEOUS & INTESTINAL EPITHELIA AT ANAL JUNCTION AFTER THERMAL INJURY DUE TO X-RAY IRRADIATION OF RATS
N64-14252 06-16

CHANGES IN TRANSITIONAL EPITHELIUM IN RATS AFTER X-RAY IRRADIATION N64-14253 06-16

NONPROTEIN AMINO ACIDS & RELATED COMPOUNDS OF RAT LIVER MITOCHONDRIA - CHROMATOGRAPHIC ANALYSIS
NADC-MA-6318 N64-14351 06-16

BLOOD PRESSURE MEASUREMENTS OF OXYGEN UPTAKE AND RESPIRATORY RATE OF RAT LIVER - HYPOXIA
N64-14602 06-16

LYSOMES, MITOCHONDRIA, AND GOLGI APPARATUS ALTERATION PATTERN STUDIES DURING AUTOLYSIS AND ANOXIC NECROBIOSIS CONDUCTED ON RAT LIVER LESION
N64-14605 06-16

HISTOCHEMICAL DETERMINATION OF OXIDATIVE AND HYDROLYTIC ENZYMES ON RAT BRAIN TISSUE AND AMINO ACID CONSUMPTION IN MONKEYS AFTER HYPOXEMIA
N64-14606 06-16

INTRAVASCULAR AIR BUBBLE FORMATION AFTER OXYGEN DECOMPRESSION IN ALBINO RATS WITH ELECTROLYTIC SALT SOLUTIONS IN PLASMA N64-15040 07-16

SEDIMENTATION RATES OF NUCLEATED AND NONNUCLEATED CELLS OF NORMAL RAT BONE MARROW
N64-15210 07-16

LACK OF PREDICTABILITY IN RATS TO EXHIBIT CHRONIC OXYGEN POISONING
NADC-MA-6324 N64-15363 07-16

ACTH INJECTION OF RATS IRRADIATED WITH X-RAYS, AND ORGAN PERMEABILITY CHANGES N64-15681 07-16

PERFORMANCE OF RAT PROVIDED WITH CONTINUOUS OPPORTUNITY TO OBTAIN REINFORCING BRAIN STIMULATION N64-17498 09-16

TRACHEA OCCLUSION IN RATS BREATHING OXYGEN AND EFFECT OF BAROMETRIC PRESSURE ON LUNG MORPHOLOGY N64-17954 10-16

STRONTIUM 90 TOXICITY IN RAT EMBRYO
UR-639 N64-18348 10-16

HIGH ENERGY NEUTRON AND PROTON RADIATION EFFECTS ON LIFESPAN, PERIPHERAL BLOOD, AND RATE OF APPEARANCE OF TUMORS IN RATS
FTD-TT-63-1049/1&2&4 N64-19220 11-16

BONE MARROW TRANSPLANTATION AFTER WHOLE-BODY IRRADIATION OF RAT
EUR-484.E N64-19296 11-16

CONTROL FEMALE ALBINO RATS POISONED BY NIOBIUM INJECTION TO MEASURE RENAL FUNCTION*BY DILUTION TEST
UR-646 N64-19865 12-16

ADDITION OF MODES OF RADIATION INJURY IN PRODUCING LETHALITY IN DOGS, MICE, AND RATS
UR-654 N64-20696 13-16

RETENTION OF STRONIUM 90 IN RATS AS FUNCTION OF DOSE, AGE, & ADMINISTRATION RATE
UR-642 N64-20715 13-16

EDIBLE PROTEIN-VITAMIN COMPLEX FOR PROTECTION FROM RADIATION SICKNESS, AND GAMMA RADIATION EFFECT ON VITAMIN CONTENT OF RAT LIVER AND BRAIN
FTD-TT-63-1064/1&2&4 N64-22363 15-16

ANIMAL STUDY - PSYCHOLOGICAL DISCRIMINATION BETWEEN TWO STIMULI BY FEMALE HOODED RATS
NADC-ML-6404 N64-22719 15-16

DISTRIBUTION OF BONE MARROW IN SKELETON OF HUMAN BODY, RABBIT, AND RAT, USING RADIOACTIVE IRON ISOTOPE AND POSITRON SCINTILLATION CAMERA N64-22853 16-16

ELECTROPHORETIC BEHAVIOR OF FIXED RAT RED BLOOD CELLS
UCRL-10898 N64-22855 16-16

FREE STREAM FRACTIONATION OF CELLS IN RAT BONE MARROW N64-22857 16-16

METABOLISM OF COMPOUNDS OF RADIOACTIVE BROMINE ISOTOPE IN THYROID GLANDS OF RATS N64-22869 16-16

BODY TEMPERATURE REGULATORY SYSTEM OF WHITE RATS BEFORE AND AFTER COLD ADAPTATION N64-22879 16-16

DENTAL TISSUE CHANGES IN RATS AFTER REPEATED SMALL DOSES OF IONIZING RADIATION
NASA-TT-F-8851 N64-23046 16-16

COLD EXPOSURE EFFECT ON ACTION OF MORPHINE IN RATS AND MICE
AAL-TDR-62-50 N64-23109 16-16

STRESS EFFECT ON RADIOSENSITIVITY OF RATS AND EFFECTIVENESS OF RADIOPROTECTIVE ACTION OF MERCAMINE
JPRS-25130 N64-23255 16-16

BRAIN SEROTONIN AND BEHAVIOR IN SELECTED STRAINS OF RATS
UCRL-11179 N64-25204 17-16

GAMMA RADIATION EFFECT ON THERMAL STRESS RESISTANCE AND REPRODUCTIVE SYSTEM IN RATS AND MAMMALS
AD-600960 N64-25308 17-16

RESTORATION OF ALBINO RAT HEMATOPOIETIC SYSTEM AFTER GAMMA RADIATION EXPOSURE N64-25309 17-16

EFFECTS OF CONTINUOUS AND FRACTIONATED LOW-INTENSITY GAMMA RADIATION ON ALBINO RAT ABILITY TO WITHSTAND ENVIRONMENTAL THERMAL STRESSES N64-25311 17-16

X-RAY IRRADIATION EFFECT ON DEVELOPMENT OF ENZYME ACTIVITY IN LIVER OF YOUNG RATS
SAM-TDR-64-29 N64-25340 17-16

DRUG EFFECT ON RAT LEVER-PRESSING RESPONSE
NASA-RP-262 N64-25975 18-16

PLASMA NONESTERIFIED FATTY ACIDS IN RATS SUBJECTED TO GRAVITATIONAL ACCELERATION
NASA-TT-F-197 N64-26782 18-16

EFFECTS OF CORTISONE ON METABOLISM OF RIBONUCLEIC ACID AND ITS NUCLEOTIDES IN RAT LIVER
NASA-TT-F-224 N64-27036 19-16

FUNCTIONAL CONDITION OF VESTIBULAR APPARATUS OF WHITE RAT UNDER DAILY ROTATIONAL ACCELERATION STRESS
NASA-TT-F-9025 N64-27138 19-16

EFFECTS OF X-RAY IRRADIATION ON ENZYME ACTIVITY IN BRAIN AND MUSCLE TISSUE OF RATS
JPRS-25630 N64-27319 19-16

MORTALITY OF RAT FETUS AFTER IRRADIATION OF PARENTAL GAMETES
NASA TT-F-9036 N64-27369 19-16

DETECTION OF LABELLED RIBONUCLEIC ACID IN NERVOUS SYSTEM OF WHITE RATS
JPRS-26042 N64-27636 19-16

ACUTE AND CHRONIC TOXICITY IN RATS FROM OXYGEN AT HIGH PRESSURE
NADC-MA-6331 N64-27954 20-16

VISUAL ADAPTATION IN EYE OF MAN - ANTIBIOTIC EFFECT ON BLOOD CONTENT AND ORGANS OF IRRADIATED RATS - ELECTRIC RESISTANCE IN SECTION OF PULMONARY TISSUE IN MAN
JPRS-25464 N64-28425 20-16

RAPID SCREENING TECHNIQUE IN VIVO FOR METABOLIC STUDY OF CHEMICAL TOXICITY OF HYDRAZINE AND ITS DERIVATIVES IN RATS N64-28947 20-16

EFFECT OF VIBRATION AND RESTRAINT ON BODY WEIGHT AND SURVIVAL OF ALBINO RAT
REPT.-5 N64-29583 21-16

PATHOLOGY AND TOXICOLOGY OF REPEATED DOSES OF HYDRAZINE AND DIMETHYLHYDRAZINE IN MONKEYS AND RATS
AMRL-TDR-64-48 N64-29938 21-16

EFFECT OF NEUROMUSCULAR BLOCKING AGENT ON DIAPHRAGM TISSUE OF RAT
AD-439674 N64-30538 22-16

EFFECTS OF LOW FREQUENCY MECHANICAL VIBRATIONS ON BLOOD CHANGES IN WHITE RATS
FTD-TT-64-242/1 N64-30703 22-16

NERVOUS RESPONSE OF BLIND RAT TO STIMULATION BY IONIZING RADIATION
USNRDL-TR-670 N64-31175 22-16

EFFECT OF ANESTHESIA ON STRESS REACTION OF RAT PITUITARY AND ADRENAL GLANDS N64-31344 23-16

EFFECT OF STRONG STRESS AND HIGH DOSES OF ADRENOCORTICOTROPIN HORMONE ON MORPHOPHYSIOLOGICAL REORGANIZATION OF RAT ADRENAL GLAND N64-31345 23-16

EFFECT OF URANIUM ON ALKALINE PHOSPHATASE ENZYME OF SOME ORGANS OF RATS N64-31347 23-16

ANIMAL STUDY OF CONDITIONED RESPONSE - LEVER-

PRESSING BEHAVIOR OF RATS IN FIXED RATIO AND IN EXTINCTION
NADC-ML-6407 N64-31665 23-14

RECIRCULATION AND LIFESPAN OF SMALL LYMPHOCYTES IN RAT
AAL-TDR-63-17 N64-31829 23-16

PROTEIN-BOUND IODINE IN SERUM OF RATS BREATHING 99 PERCENT OXYGEN - MICROSCOPIC CHANGES IN THYROID
N64-32223 23-16

BIOLOGICAL EFFECT OF HIGH BLAST-FREE PRESSURE ON ALBINO RATS
OVL-359 N64-32347 23-16

PROPHYLACTIC ACTION OF AEROIONIZATION IN ACUTE RADIATION SICKNESS OF WHITE RATS
N64-32781 24-16

VITAMIN AND HORMONE EFFECTS ON HEMORRHAGIC DISEASE IN RATS CAUSED BY IRRADIATED FOOD
PR-14 N64-33993 24-16

RATE
S BURNING RATE
S COLLISION RATE
S DECAY RATE
S DRIFT RATE
S EVAPORATION RATE
S FLOW RATE
S STRAIN RATE

RATIO
S FINENESS RATIO
S FUEL-AIR RATIO
S HUB-TIP RATIO
S LIFT-DRAG RATIO
S PRESSURE RATIO
S SIGNAL TO NOISE RATIO
S STANDING WAVE RATIO
S STRESS RATIO
S THRUST WEIGHT RATIO

RATIONAL FUNCTION
SIGNIFICANCE OF APPROXIMATION BY POLYNOMIALS AND RATIONAL FUNCTIONS
RM-4051-PR N64-18178 10-20

SEGMENTED RATIONAL MINIMAX APPROXIMATION PROBLEM - CHARACTERISTIC PROPERTIES AND COMPUTATIONAL METHODS
NASA-CR-53928 N64-19940 12-20

RAWINSONDE MEASUREMENT
RADAR AND RAWINSONDE DATA DIFFERENCES FOR SERIES OF RAWINSONDE BALLOON FLIGHTS
ERDA-115 N64-17504 09-21

TROPOPAUSE PRESSURES AND HOURLY FLUCTUATIONS THROUGH RAWINSONDE OBSERVATIONS
AFCRL-64-660 N64-31812 23-21

RAY TRACING
IMAGE CONSTRUCTION FOR CONCAVE GRATINGS AT GRAZING INCIDENCE BY RAY TRACING
NASA-RP-91 N64-12948 04-23

MATHEMATICAL MODEL FOR ACOUSTICAL RAY TRACING
ERDA-137 N64-24943 17-23

SOLAR REFLECTOR ANALYSIS, MATHEMATICS, AND ERROR MODEL SYNTHESIS FROM RAY TRACE DATA
EDR-3958 N64-31167 22-06

CALCULATING APPARENT ELEVATION ANGLE FOR TROPOSPHERIC TARGET FROM SPECIFIED VALUES OF GEOMETRICAL ELEVATION ANGLE AND HEIGHT
ERDA-67 N64-31190 22-08

RAY TRACING OF REFRACTIVE ERRORS ON INTERFEROGRAMS OF CYLINDRICAL AND PLANAR DISTURBANCES
BRL-1251 N64-32033 23-15

RAYLEIGH EQUATION
CF MATHIEU FUNCTION
PRACTICAL VALIDITY OF RAYLEIGH THEORY IN LIGHT SCATTERING OF SPHERES
TR-9/55/ N64-27719 19-23

VALIDITY RANGE OF DEBYE AND RAYLEIGH EQUATIONS FOR DETERMINING MOLECULAR WEIGHTS FROM LIGHT SCATTERING
TR-10/56/ N64-27720 19-23

INDEPENDENT SAMPLES AND STANDARD DEVIATION CONFIDENCE LEVELS OF RAYLEIGH-DISTRIBUTED PROCESS
AFCRL-64-737 N64-32114 23-23

RAYLEIGH-RITZ METHOD
CF EIGENVALUE PROBLEM
CF VARIATIONAL PRINCIPLE
TABULATION OF SOLUTIONS OF PROLATE SPHEROIDAL ANGLE FUNCTIONS BY RAYLEIGH-RITZ METHOD
REPT.-4563-65-T N64-21117 14-08

RAYLEIGH-RITZ METHOD USED TO SOLVE STABILITY OF PROLATE SPHEROIDAL SHELLS UNDER UNIFORM EXTERNAL PRESSURE
DTMB-TRANS-317 N64-24098 16-11

EQUILIBRIUM EQUATIONS FOR FORCE CONCENTRATION AND RAYLEIGH-RITZ EQUATIONS FOR AIRCRAFT VIBRATION
AVA-64-01 N64-26752 18-33

RAYLEIGH WAVE
RAYLEIGH WAVE ANALYSIS OF PARTICLE MOTION IN SOLID-LIQUID INTERFACE N64-12408 04-11

ELIMINATION OF ERROR IN COMPUTATION OF RAYLEIGH WAVE DISPERSION CURVES FOR LAYERED ELASTIC MEDIA BY ACCOUNTING FOR DECOUPLING EFFECTS
AFCRL-64-231 N64-20105 13-25

SIMPLIFIED KINETIC THEORY OF COUETTE AND RAYLEIGH FLOW
REPT.-9813-6001-RU000 N64-20652 13-11

CHARACTERISTICS OF RAYLEIGH WAVE DISPERSION ON TWO-LAYERED SOLID HALF SPACE FOR FUNDAMENTAL, FIRST SHEAR, AND SECOND SHEAR MODES
AD-441647 N64-27629 19-33

RAYLEIGH WAVES IN VISCOELASTIC-PLASTIC MODEL OF EARTH CRUST AND MANTLE
MD-63-4 N64-32199 23-12

RC NETWORK
DISTRIBUTED RESISTANCE-CAPACITANCE NETWORKS WITH RATIONAL TRANSFER FUNCTIONS
R-164 N64-19396 12-09

OPTIMIZATION OF POLE SENSITIVITY IN ACTIVE RC NETWORK
EE-569 N64-21525 15-09

CALCULATING REGULATOR SCALE FOR RC NETWORK SIGNAL GENERATOR N64-29127 21-15

TEMPERATURE EFFECTS ON STABILITY OF TRANSISTORTUBE RC NETWORK OSCILLATOR N64-29128 21-15

REACTION
S KINETICS
S MICHAEL REACTION
S NUCLEAR REACTION
S PROTON-PROTON REACTION
S SURFACE REACTION
S THERMONUCLEAR REACTION

REACTION TIME
INFORMATION THEORY & HUMAN BEHAVIOR - LINEAR RELATIONSHIP BETWEEN REACTION TIME AND UNCERTAINTY IN INFORMATION PROCESSING TASKS
AMRL-TDR-63-89 N64-11439 03-16

QUANTUM EFFECT IN CALCULATION OF TRANSMISSION COEFFICIENT APPLIED TO REACTION RATE CONSTANTS
IS-677 N64-11546 03-23

REACTION RATE OF FORMATION AND DESTRUCTION OF ATMOSPHERIC IONIZATION - SYSTEM OF TIME-DEPENDENT REACTION-RATE EQUATIONS
AFCRL-63-711 N64-13084 04-12

PROBLEMS OF VISUAL PERCEPTION AND REACTION TIME

FOR PREVENTION OF SUPERSONIC AIRCRAFT COLLISIONS
N64-15047 07-16

METHOD FOR COMPUTING REACTION RATES FOR HYDROGEN-AIR MIXTURES IN RANJET ENGINE N64-18137 10-26

COMPUTER PROGRAM FOR CALCULATION OF DIFFUSION-CONTROLLED REACTION RATES IN ARC-IMAGE REACTOR
AD-434588 N64-18361 10-27

ADVANCED RECEIVER MODEL SYSTEM FOR HANDLING COMPLEX INTERFERENCE PROBLEMS WITH FAST REACTION TIME N64-22821 16-09

MOTOR REACTION TIME IN HUMANS UNDER ISOLATION CONDITIONS N64-23758 16-16

LABORATORY APPARATUS FOR VISUAL SIGNALLING INVESTIGATION OF MOTOR REACTION EFFECTIVENESS
N64-30323 22-14

EFFECT OF CHEMICAL REACTIONS ON FLOW AND CATALYTIC ACTIVITY ON REACTION TIMES
ONERA-TP-10/1963/ N64-33739 24-11

REACTION WHEEL
REACTION WHEEL USING BRUSHLESS DIRECT CURRENT ELECTRIC MOTOR
NASA-CR-58773 N64-32888 24-17

REACTOR
SA ADVANCED TEST REACTOR /ATR/
SA BOILING WATER REACTOR
SA ENGINEERING TEST REACTOR
SA FAST REACTOR
SA FLUIDIZED-BED REACTOR
SA GASEOUS FISSION REACTOR
SA KIWI B-1B REACTOR
SA KIWI B-4 REACTOR
SA KIWI ROCKET REACTOR
SA LIQUID METAL COOLED REACTOR /LMCR/
SA LOS ALAMOS WATER BOILER REACTOR
SA MOLTEN-SALT REACTOR /MSRE/
SA ORGANIC COOLED REACTOR
SA ORGANIC MODERATED REACTOR
SA PLUM BROOK REACTOR
SA PRESSURIZED WATER REACTOR
SA SPACE POWER UNIT REACTOR /SPUR/
SA SPECTRAL SHIFT CONTROL REACTOR
SA SPERT REACTOR
SA TEST REACTOR
REACTOR UTILIZATION AND ABSTRACTS OF CHEMISTRY, ENGINEERING, METALLURGY, AND PHYSICS RESEARCH
IS-700 N64-10257 01-01

CONTAINMENT OF FRAGMENTS FROM RUNAWAY REACTOR - PROJECTILE PENETRATION ENERGY
SRIA-113 N64-10272 01-23

SMALL LATTICE REQUIRING LESS FUEL THAN EQUIVALENT CRITICAL OR EXPONENTIAL EXPERIMENTS FOR INFINITE-MEDIUM LATTICE PARAMETER MEASUREMENTS - REACTORS
BAW-1283 N64-11281 02-23

REACTOR CONCEPT WITH RADIATION AS PRINCIPAL HEAT TRANSFER MECHANISM BETWEEN REACTOR CORE AND HEAT EXCHANGER - GLOWWORM PROJECT
LAMS-2427 N64-11632 03-23

PRODUCTION OF CHEMICALS THROUGH USE OF RECOILING FISSION FRAGMENTS IN CHEMONUCLEAR REACTORS
BNL-804/T-309/ N64-11641 03-07

IMPROVEMENT OF MASS SPECTROMETER USED TO ANALYZE SILICON EPITAXIAL REACTOR GAS STREAM COMPONENTS
AFCRL-63-350 N64-12237 03-15

NEUTRON EMBRITTLEMENT OF REACTOR PRESSURE VESSEL STEEL
NRL-5984 N64-12260 03-18

CLAD CARBIDE EMITTER THERMIONIC POWER MODULE FOR SIMULATING NUCLEAR REACTOR INSTALLATION, DESIGN, & PERFORMANCE
AI-9050 N64-13237 04-06

STABILITY AND CONTROL IN TWO-TEMPERATURE NUCLEAR REACTOR
BNL-815/T-315/ N64-15566 07-23

DIGITAL READOUT AND DRIVE PORTION OF ADVANCED REACTIVITY MEASUREMENT FACILITY II - NUCLEAR REACTOR
IDO-16896 N64-15711 07-15

NUCLEAR ENERGY RESEARCH IN AREAS OF LIFE SCIENCES, ENVIRONMENTAL RADIATION, BASIC RESEARCH, THERMO-NUCLEAR RESEARCH, & REACTOR DEVELOPMENT
N64-15778 07-01

REDUCTION OF VANADIUM COMPOUNDS IN BOMB REACTORS TO INCREASE YIELD & PURITY
BM-RI-6374 N64-15922 07-17

NUCLEAR REACTOR INDIUM-GALLIUM RADIATION LOOP
FTD-TT-63-553/1&2&4 N64-16051 07-23

PUK SUBCRITICAL FACILITY OF NERO PROJECT LOW FLUX REACTOR
EUR-499.E N64-16924 09-23

REACTOR HIGH TEMPERATURE HELIUM SEALS
HW-76008 N64-17297 09-17

FUEL CELLS AS ENERGY STORAGE AND CHEMICAL REACTOR DURING SPACE FLIGHTS N64-17402 09-06

LITHIUM COOLED REACTOR EXPERIMENT DESIGNED AS TEST FOR HIGH TEMPERATURE, INTERMEDIATE-FAST-FLUX REACTOR
PWAC-416 N64-17719 09-06

LOUISE III - FORTRAN IBM 7090 PROGRAM FOR CALCULATING CRITICALITY CONSTANT & CRITICAL FLUX OF MULTIREGION REACTOR - NEUTRON DIFFUSION CODE
EUR-532.E N64-17812 09-20

DYNAMIC CORROSION AND CHEMICAL CONTROL TEST LOOP FOR NUCLEAR REACTOR
IDO-16812 N64-17840 09-07

PROPERTIES OF GAS PHASE FREE RADICALS AND DEVELOPMENT OF MOLECULAR BEAM REACTOR
AD-412955 N64-17868 10-23

REACTOR DEVELOPMENT PROGRAM
ANL-6860 N64-17998 10-23

COMPUTER PROGRAM FOR CALCULATION OF DIFFUSION-CONTROLLED REACTION RATES IN ARC-IMAGE REACTOR
AD-434588 N64-18361 10-27

APPLICATION OF LIAPUNOV METHOD AND PONTRYAGIN PRINCIPLE TO STABILITY AND OPTIMIZATION PROBLEMS OF NUCLEAR REACTORS
NASA-CR-53638 N64-19622 12-20

EFFECTS OF COMPARTMENT WALLS ON NEUTRON AND GAMMA RAY DOSE RATES INSIDE COMPARTMENTED STRUCTURE OF NUCLEAR REACTOR
USNRDL-TR-722 N64-21505 15-23

PLASTIC RESPONSE OF SCALED MODELS OF NUCLEAR REACTOR OUTER CONTAINMENT STRUCTURE TO INTERNAL BLAST LOADING
BRL-MEMO-1530 N64-21808 15-13

PHYSICAL CHARACTERISTICS OF NUCLEAR REACTOR DETERMINED BY CRITICAL EXPERIMENT
FTD-TT-63-978/1 N64-21961 15-23

EFFECT OF REACTOR IRRADIATION UPON HYDROGEN ADSORPTION BY ALUMINUM OXIDE CATALYST
BNL-845/T-332/ N64-22045 15-07

PLASMA THERMIONIC DIODES FOR CONVERSION OF NUCLEAR REACTOR POWER
GEST-2031 N64-22513 15-04

MIXING AND SECOND ORDER IRREVERSIBLE CHEMICAL REACTION IN TURBULENT FLOW REACTOR
UCRL-7852 N64-22947 16-23

PULSED CLOSED AND PULSED OPEN THERMONUCLEAR REACTORS

LAMS-3085 N64-25534 17-23

NEUTRON ACTIVATION PROPERTIES OF NUCLEAR REACTOR STRUCTURES FOR SPACE FLIGHT
RR-227 N64-25922 18-23

UNCONTROLLED POWER TRANSIENTS IN SYSTEM FOR NUCLEAR AUXILIARY POWER /SNAP/ REACTORS
NAA-SR-9368 N64-26484 18-23

NEUTRON TISSUE DOSE BEHIND REACTOR SHIELDING
FTD-TT-63-1047/1&4 N64-26640 18-15

SENSORS FOR NUCLEAR REACTOR INSTRUMENTATION AND CONTROL PROGRAMS
GEMP-83 N64-28029 20-15

SPACE NUCLEAR PROPULSION - SOLID CORE NUCLEAR ROCKETS, ELECTRIC PROPULSION AND ADVANCED REACTOR ROCKET CONCEPTS
AIAA PAPER-64-523 N64-28926 20-27

URANIUM AND ZIRCONIUM CARBIDES AS CATHODES FOR THERMIONIC SPACE REACTORS
NASA-CR-56280 N64-29371 21-19

ELECTROMECHANICAL ANALOG COMPUTER FOR COMPUTING CHANGES IN REACTIVITY IN HIGH-POWER-DENSITY THERMAL REACTOR
ORNL-3685 N64-29396 21-20

PULSE REACTOR ENGINE FOR HIGH PERFORMANCE LIFT-PROPULSION SYSTEMS WITH NO MOVING PARTS
ARD-308 N64-29411 21-27

DIFFUSION THEORY FOR HOMOGENEOUS & HETEROGENEOUS NUCLEAR REACTORS
NASA-CR-52959 N64-29786 21-23

TEMPERATURE RATIOS FOR AIRCRAFT NUCLEAR PROPULSION REACTORS AND POSTULATED TEMPERATURES FOR NUCLEAR REACTOR IN ROCKET ENGINE - REACTOR THERMAL DESIGN PROBLEMS
NASA-CR-52956 N64-29789 21-27

MECHANICAL DESIGN OF GAS-COOLED HIGH TEMPERATURE NUCLEAR CERAMIC REACTORS, FOR USE IN DIRECT AIR CYCLE NUCLEAR TURBOJET AIRCRAFT
NASA-CR-52955 N64-29790 21-23

GRAPHITE SAMPLE SPECIFICATIONS FOR NUCLEAR REACTOR GRAPHITE BURNOUT MONITOR
HW-82436 N64-31269 22-19

PHOTOGRAPHIC AND OPTICAL INSTRUMENTATION FOR SNAP-2/10A-3 DESTRUCTIVE TESTING
EG&G-1183-1071 N64-31627 23-15

HIGH CURRENT, MULTIPLE CIRCUIT SWITCHING TECHNIQUES NEAR REACTOR OF NUCLEAR POWER CARRIER
RTD-TDR-63-3062 N64-32280 23-09

MINIATURE FISSION CHAMBER AND PREAMPLIFIER FOR HIGH FLUX REACTORS
ORNL-3699 N64-32416 23-15

COMPUTER PROGRAM FOR DETERMINATION OF HEATING OF PERIPHERAL COMPONENTS OF TORY II-C REACTOR BY GAMMA RADIATION - MONTE CARLO METHOD
UCRL-12005 N64-33239 24-23

REACTOR CHEMISTRY
CF NUCLEAR CHEMISTRY
MOLTEN SALT REACTORS, AQUEOUS REACTORS, AND GAS COOLED REACTORS - REACTOR CHEMISTRY
ORNL-3591 N64-19910 12-07

REACTOR CONTROL
SA CONFINEMENT
SA CONTAINMENT
CF REACTOR SAFETY
IRRADIATION BEHAVIOR OF BULK BORON CARBIDE AND BORON CARBIDE-SILICON CARBIDE BURNABLE POISON PLATES FOR REACTOR CONTROL
WAPD-261 N64-11243 02-23

SAFETY-ROD DROP-TIME SYSTEM FOR MEASURING FREE-FALL DROP TIME & SNUBBING TIME OF SAFETY RODS - REACTOR CONTROL
NAA-SR-7880 N64-13049 04-06

STABILITY AND CONTROL IN TWO-TEMPERATURE NUCLEAR REACTOR
BNL-815/T-315/ N64-15566 07-23

REACTOR CONTROL DEVICES & SYSTEMS, CAPACITANCE TEMPERATURE SENSOR, FISSION COUNTERS, IONIZATION CHAMBERS, AND NEUTRON DETECTORS
GEMP-270C N64-16001 07-23

BORON CARBIDE AND SILICON CARBIDE POISONS AND METAL-CLAD ELEMENTS FOR REACTOR CONTROL
WAPD-244 N64-16693 08-23

ADAPTIVE CONTROL SYSTEM FOR NUCLEAR REACTOR
NASA-CR-53179 N64-17581 09-06

ROTATION OF REACTOR CONTROL DRUMS IN LITHIUM COOLED REACTOR EXPERIMENT PRODUCED BY HARMONIC DRIVE
PWAC-412 N64-17718 09-17

CODING AND DECODING TIME-DISCRETE AMPLITUDE-CONTINUOUS MEMORYLESS CHANNEL
RLE-TR-399 N64-18366 10-20

INSTRUMENTATION AND CONTROL SYSTEMS FOR RADIATION DETECTION, MONITORING, REACTOR CONTROL, DATA HANDLING, COMPUTATION, AND ACCELERATOR PROGRAMS
ORNL-3578 N64-21112 14-15

SENSORS FOR NUCLEAR REACTOR INSTRUMENTATION AND CONTROL PROGRAMS
GEMP-83 N64-28029 20-15

PRESSURE SENSOR FOR DYNAMIC PRESSURE MEASUREMENT IN NUCLEAR REACTOR
IDO-16999 N64-30807 22-15

AUTOMATIC CONTROL SYSTEM FOR HIGH FLUX NUCLEAR REACTOR
LFEN-18/BETA/ N64-32327 23-06

CAPACITANCE TEMPERATURE SENSOR AND NUCLEAR SENSOR FOR REACTOR INSTRUMENTATION AND CONTROL
GEMP-84 N64-32937 24-15

REACTOR CONTROL APPLICABLE TO NUCLEAR SPACECRAFT
NASA-CR-52944 N64-33701 24-27

PROTOTYPE PNEUMATIC NUTATOR ACTUATOR MOTOR FOR DRUM CONTROL OF NUCLEAR REACTOR
NASA-CR-54204 N64-33897 24-06

REACTOR CORE
EFFECTS OF FUEL MANAGEMENT PROGRAM ON REACTOR CORE AND NUCLEAR PLANT CHARACTERISTICS
TID-7665 N64-10426 01-26

WRINKLING AS FUNCTION OF SURFACE WAVINESS IN ALUMINUM HONEYCOMB CORE PANELS
ERR-FW-196 N64-16628 08-34

SNAP 8 REACTOR CORE TRANSIENT HEAT TRANSFER MODEL
NAA-SR-7938 N64-16861 08-06

HOMOGENIZATION OF UNIT CELL OF REACTOR FUEL ELEMENT LATTICE FOR CORE DEPLETION ANALYSIS
WCAP-6060 N64-19775 12-23

POSSIBILITY OF PRODUCING REACTOR CORES FOR LIQUID METAL LINEAR GENERATOR N64-19849 12-06

STEADY STATE AND KINETIC BEHAVIOR OF SYSTEM OF LOOSELY COUPLED REACTOR CORES
LAMS-2967 N64-19908 12-23

YANKEE CORE PROGRAM - EVALUATION OF STRUCTURAL AND MATERIAL INTEGRITY OF YANKEE CORE I
WCAP-6056 N64-20653 13-23

INFLUENCE OF FABRICATION TOLERANCES ON REACTOR CORE DESIGN AND STATISTICAL METHOD FOR EVALUATING DESIGN CORRECTION
EUR-1302.E N64-21005 14-23

MYTHEST - IBM 7090 COMPUTER PROGRAM USING MONTE CARLO METHOD FOR EVALUATING CORRECTION FACTORS FOR

NUCLEAR REACTOR CORES
EURAEC-987 N64-21193 14-23

EFFECT OF OPERATING FOUR ROVER REACTOR CORES IN CLUSTERED ARRAY
LAMS-2968 N64-21616 15-23

SPECTROGRAPHIC ANALYSIS OF SOLUTIONS ON CORED GRAPHITE - APPLICATION TO ZIRCONIUM-NIOBIUM ALLOY
ONERA-TN-76 N64-25607 17-18

TRIAXIAL METHOD FOR DETERMINING ELASTIC CONSTANTS OF STRESS RELIEF CORES
BM-RI-6490 N64-26090 18-33

CHARACTERIZATION OF URANIUM DIOXIDE PARTICLES AND STUDIES OF FABRICATION VARIABLES FOR CORE B FUEL PLATES FOR FAST BREEDER REACTOR
ORNL-3645 N64-26798 18-17

SPACE NUCLEAR PROPULSION - SOLID CORE NUCLEAR ROCKETS, ELECTRIC PROPULSION AND ADVANCED REACTOR ROCKET CONCEPTS
AIAA PAPER-64-523 N64-28926 20-27

REACTOR CORE COMPONENT HANDLING EQUIPMENT AND TECHNIQUES FOR NUCLEAR POWER FACILITY
NAA-SR-7785 N64-29753 21-10

NEUTRON FLUX MONITORS AND THERMOCOUPLES FOR IN-CORE REACTOR MEASUREMENTS
AECL-2033 N64-30641 22-15

CARBON TRANSPORT FROM HOT REACTOR CORE
EUR-516.E N64-33497 24-23

HEAT EXCHANGER CORE COMPACTNESS
AD-446233 N64-33764 24-06

REACTOR DESIGN
DESIGN, METALLURGY, RADIATION EFFECT, AND FUEL PROCESSING OF MOLTEN-SALT REACTOR
ORNL-3529 N64-13137 04-23

REACTOR DEVELOPMENT & TECHNOLOGY, AND NUCLEAR SAFETY STUDIES
ANL-6810 N64-14390 06-23

DESIGN & SAFETY OPTIMIZATION OF HYDRIDE FUEL SNAP REACTORS N64-14558 06-06

FAST REACTOR DESIGN WITH LOW SODIUM-VOID COEFFICIENT
ACNP-64503 N64-22231 15-23

DESIGN ANALYSIS, INSTRUMENTATION, CONTROL, AND SAFETY OF SODIUM COOLED FAST BREEDER REACTOR
CEND-200, VOL. 2 N64-25561 17-23

LIQUID METAL FAST BREEDER REACTOR DESIGN STUDY
GEAP-4418, VOL. 1 N64-25563 17-23

FAST OXIDE BREEDER REACTOR COMPONENTS
GEAP-4418, VOL. 2 N64-25564 17-23

DESIGN, PERFORMANCE ANALYSIS, AND COMPONENT AND MATERIAL TESTING FOR EXPERIMENTAL GAS COOLED REACTOR /EGCR/
ORNL-3619 N64-26303 18-23

REACTIVITY TEST ASSEMBLY - HETEROGENEOUS LIGHT-WATER UNPRESSURIZED ENRICHED SYSTEM OPERATING AS ZERO POWER REACTOR
NARF-62-14T N64-28908 20-10

REACTOR DESIGN FOR AIRCRAFT NUCLEAR PROPULSION
NASA-CR-52957 N64-29788 21-23

DESIGN AND HAZARDS OF NUCLEAR RESEARCH REACTOR
LFEN.1 /BETA/ N64-30488 22-10

REACTOR FUEL
SA FISSION PRODUCT
CF FUEL ELEMENT
CF NUCLEAR FUEL
CHEMICAL METALLURGY, FUEL CYCLES, CALORIMETRY, REACTOR SAFETY, & ENERGY CONVERSION
ANL-6687 N64-10395 01-07

EFFECTS OF FUEL MANAGEMENT PROGRAM ON REACTOR CORE AND NUCLEAR PLANT CHARACTERISTICS
TID-7665 N64-10426 01-24

CIVIL APPLICATIONS OF REACTOR MATERIALS, FUELS, AND COMPONENTS
BMI-1644/DEL./ N64-10471 01-23

CERAMIC REACTOR FUEL DEVELOPMENT - URANIUM OXIDE & PLUTONIUM OXIDE SYSTEMS
HW-76302 N64-11306 02-19

REACTOR MATERIAL, FUEL, & FUEL ELEMENT STUDY FOR CIVIL APPLICATION
BMI-1650/DEL./ N64-11775 03-23

CHARACTERISTICS OF BERYLLIUM OXIDE FOR NUCLEAR PROPULSION - REACTOR MATERIAL & FUEL COMPONENT
UCRL-7428 N64-12041 03-19

PLUTONIUM CERAMIC REACTOR FUELS - PHASE STUDIES & PHYSICAL PROPERTIES OF VARIOUS PLUTONIUM ALLOYS
MLM-1171 N64-12128 03-19

SODIUM COOLED REACTOR & FAST CERAMIC REACTOR FUEL
GEAP-3888 N64-13016 04-23

FABRICATION OF PLUTONIUM FUELS FOR POWER REACTORS
DP-838 N64-13317 04-23

FUEL MATERIALS & FABRICATION METHODS, PHYSICS, CHEMICAL PROCESSING OF REACTOR FUELS & WASTE, IRRADIATION EFFECT ON FUELS, & TESTING
HW-78388 N64-14166 05-23

URANIUM-MOLYBDENUM ALLOYS FOR LIQUID-METAL-COOLED REACTOR FUELS
NAA-SR-6262 N64-14406 06-23

COMBUSTION AND DISINTEGRATION OF ZIRCONIUM HYDRIDE-URANIUM FUEL RODS N64-14574 06-26

ONE-DIMENSIONAL CODING SYSTEM FOR IBM 7090 ANALYSIS OF REACTOR FUEL DEPLETION
WCAP-6058 N64-14732 06-23

RADIOACTIVE ISOTOPE SEPARATION AND POWER REACTOR FUELS
TID-4202 N64-15394 07-23

ALPHA DECAY SCINTILLATION COUNTER FOR URANIUM SURFACE CONTAMINATION MEASUREMENT OF NUCLEAR REACTOR FUEL
HW-78268 N64-15998 07-23

ALLOY MATERIALS FOR SUPERHEAT FUEL SHEATHS
GEAP-4351 N64-16550 08-11

HIGH TEMPERATURE MATERIALS AND REACTOR FUELS
GEMP-270A N64-16995 09-23

ZIRFLEX AND NEUFLEX PROCESSES FOR PREPARATION OF SOLVENT EXTRACTION FEEDS FROM UNIRRADIATED ZIRCONIUM-BASE REACTOR FUELS
ORNL-3465 N64-17255 09-07

REACTOR MATERIALS AND FUELS DEVELOPMENT
BMI-1661/DEL./ N64-18396 10-23

HOMOGENIZATION OF UNIT CELL OF REACTOR FUEL ELEMENT LATTICE FOR CORE DEPLETION ANALYSIS
WCAP-6060 N64-19775 12-23

SODIUM COOLED REACTOR, HNPF FUEL SURVEILLANCE PROGRAM, ORGANIC MODERATED REACTOR, SEPARATIONS CHEMISTRY AND REACTOR SAFETY
NAA-SR-8888 N64-19887 12-23

REACTOR FUELS & MATERIALS DEVELOPMENT - PLUTONIUM
MLM-1184 N64-20476 13-23

REACTOR DEVELOPMENT PROGRAM - REACTOR MATERIALS AND FUELS RESEARCH
BMI-1665/DEL./ N64-20521 13-19

REACTOR FUEL ELEMENT PROCESSING AND MATERIALS TESTING - CERAMIC MATERIALS
HW-76304 N64-21739 13-17

PLUTONIUM REACTOR FUEL DEVELOPMENT
LAMS-3096 N64-24223 16-23

BIBLIOGRAPHY ON EFFECTS OF WATER VAPOR AND OTHER GASES ON REACTOR FUEL ELEMENTS
UCRL-7836 N64-25864 18-18

STATISTICAL METHOD FOR EVALUATING URANIUM-235 HOMOGENEITY IN REACTOR FUEL RODS
NAA-SR-9600 N64-26702 18-23

CONVECTIVE HEAT TRANSFER IN THIN RECTANGULAR CHANNEL FLOW AS FOUND IN NUCLEAR REACTOR FUEL ASSEMBLIES
NASA-TN-D-2411 N64-26778 18-13

THORIUM AND THORIUM-URANIUM COMPOUNDS AS POTENTIAL THERMAL BREEDER FUELS
BMI-1680 N64-28125 20-18

STABILITY OF ZIRCALOY CLAD URANIUM DIOXIDE FUEL ELEMENTS IRRADIATED TO HIGH BURNUP
CRFD-1178 N64-28256 20-18

CHARACTERISTICS OF GRAPHITE-MODERATED GAS-COOLED REACTOR USING NATURAL URANIUM FUEL
N64-29711 21-23

STRAIN FATIGUE TESTS ON THIN-WALL TUBING RELATED TO SERVICE LIFE OF NUCLEAR REACTOR FUEL ELEMENT
GEAP-4462 N64-29754 21-33

CORROSION OF STAINLESS STEEL BY SIMULATED WATER MODERATED REACTOR FUEL - DEPLETED URANIUM OXIDE IN NITRIC OR PHOSPHORIC ACID
LA-3101 N64-29772 21-18

CHEMISTRY AND ATOMIC ENERGY - NUCLEAR REACTOR FUEL AND WASTE PROCESSING, TRANSURANIUM ELEMENTS, FISSION PRODUCT EXTRACTION, RADIATION EFFECTS, AND DECONTAMINATION
ORNL-3627 N64-31061 22-07

REACTOR TECHNOLOGY - FUEL ELEMENTS, RADIOISOTOPE AND RADIATION APPLICATIONS, CORROSION RESISTANCE, AND GAS COOLING
BMI-1681/DEL./ N64-31375 23-25

IRRADIATION CAPSULES FOR REACTOR FUEL EVALUATION - SYMPOSIUM
TID-7697 N64-33916 24-10

REACTOR IN-FLIGHT TEST /RIFT/ PROJECT
REVISION OF ROVER PROGRAM, RIFT PROJECT, AND NERVA & KIWI REACTORS N64-12064 03-30

NUCLEAR RADIATION SAFETY OF RIFT VEHICLE LAUNCH & FLIGHT OPERATIONS N64-14563 06-30

MANNED SPACE FLIGHT PROGRAM, JANUARY THROUGH JUNE 1963 - SATURN AND RIFT PROJECTS
NASA-TM-X-51523 N64-17796 09-10

RADIATION TESTING MONOMETHYL HYDRAZINE PROPELLANT FOR RIFT PROJECT
NSP-64-10 N64-18470 10-26

CONTROL OF TOOLING AND MACHINING OF JOINTS FOR REACTOR IN-FLIGHT TEST /RIFT/ PROJECT
NASA-CR-56360 N64-22443 15-17

QUALITY ASSURANCE PROGRAM FOR COMPONENT RELIABILITY IN RIFT PROJECT
NASA-CR-56346 N64-22446 15-17

JOINT RING EVALUATION FOR REACTOR IN-FLIGHT TEST PROJECT
NASA-CR-56344 N64-22460 15-17

HANDLING & TRANSPORTATION FOR REACTOR IN-FLIGHT TEST /RIFT/ PROJECT
NASA-CR-56234 N64-22469 15-17

OPERATIONS PLAN FOR RIFT NUCLEAR ROCKET DEVELOPMENT STATION /NRDS/
NASA-CR-56561 N64-23519 16-27

FACTORY TEST PLAN FOR RIFT PROJECT MANUFACTURING
NASA-CR-56235 N64-23931 18-30

SUPPORT FACILITIES FOR RIFT PROJECT
NASA-CR-56311 N64-23940 16-27

AERODYNAMIC CHARACTERISTICS OF SATURN V LAUNCH VEHICLE FOR REACTOR IN-FLIGHT TEST /RIFT/ PROJECT
NASA-CR-56646 N64-24017 16-27

MANUFACTURING PLAN FOR REACTOR IN FLIGHT TEST /RIFT/ PROJECT - OPERATIONS RESEARCH
NASA-CR-56833 N64-25571 17-27

RELIABILITY AND MAINTENANCE PROBLEMS IN REACTOR IN-FLIGHT TEST /RIFT/ PROJECT - EVALUATION METHODS FOR FLIGHT PERFORMANCE RELIABILITY
N64-28292 20-17

NUCLEAR PROPULSION RADIATION EFFECT ON RELIABILITY CONTROL AND MAINTAINABILITY CONCEPTS IN REACTOR IN-FLIGHT TEST /RIFT/ PROJECT N64-28293 20-17

CABLE IRRADIATION TESTS FOR NASA RIFT PROGRAM
NASA-CR-56779 N64-29558 21-27

TOOL PROGRAM FOR MANUFACTURING OF HARDWARE FOR REACTOR IN-FLIGHT TEST /RIFT/ PROJECT
NASA-CR-56508 N64-29564 21-17

RIFT PROJECT DATA CENTER MANUAL
NASA-CR-56778 N64-30501 22-10

REACTOR MATERIAL
METAL & CERAMIC MATERIALS FOR REACTORS
ORNL-3470 N64-10262 01-01

CIVIL APPLICATIONS OF REACTOR MATERIALS, FUELS, AND COMPONENTS
BMI-1644/DEL./ N64-10471 01-23

MEASUREMENT OF TOTAL NORMAL EMITTANCE OF NUCLEAR REACTOR MATERIALS - CARBON STEEL, BORON STEEL, & BORATED GRAPHITE N64-10960 02-13

REACTOR MATERIAL, FUEL, & FUEL ELEMENT STUDY FOR CIVIL APPLICATION
BMI-1650/DEL./ N64-11775 03-23

CHARACTERISTICS OF BERYLLIUM OXIDE FOR NUCLEAR PROPULSION - REACTOR MATERIAL & FUEL COMPONENT
UCRL-7428 N64-12041 03-19

REACTOR RESEARCH - PHYSICAL & CHEMICAL METALLURGY OF REACTOR METALS & MATERIALS
HW-78962 N64-14226 06-01

IRRADIATION OF STEEL ALLOYS IN REACTORS
N64-14230 06-18

REACTOR ENVIRONMENT AND IRRADIATION EFFECT ON STRUCTURAL MATERIALS - ZIRCALOY-2, HASTELLOY X-280, AND NICKEL BASE ALLOYS N64-14232 06-23

CATALYTIC HYDROCRACKING OF POLYPHENYLS FOR RECOVERY OF ORGANIC NUCLEAR REACTOR COOLANT
MRB-6003TI N64-16553 08-07

PHYSICAL METALLURGY, REACTOR METALS, CHEMICAL METALLURGY, & MATERIALS ENGINEERING
HW-79766 N64-17503 09-18

REACTOR MATERIALS AND FUELS DEVELOPMENT
BMI-1661/DEL./ N64-18396 10-23

REACTOR FUELS & MATERIALS DEVELOPMENT - PLUTONIUM
NLM-1184 N64-20476 13-23

REACTOR DEVELOPMENT PROGRAM - REACTOR MATERIALS AND FUELS RESEARCH
BMI-1665/DEL./ N64-20521 13-19

YANKEE CORE PROGRAM - EVALUATION OF STRUCTURAL AND MATERIAL INTEGRITY OF YANKEE CORE I
WCAP-6056 N64-20653 13-23

DEVIATION FROM IDEAL DIFFUSION BEHAVIOR OF FISSION RARE GASES IN REACTOR MATERIALS
EUR-595.E N64-20832 14-23

DEVICE FOR PURITY DETERMINATION OF REACTOR-GRADE MATERIALS BY OSCILLATION METHOD

EUR-523.F N64-22197 15-23

BOILING BURNOUT HEAT FLUXES FOR REACTOR FUEL ELEMENT BUNDLES
HW-80391, REV. 1 N64-22946 16-26

HIGH TEMPERATURE PROPERTIES OF NUCLEAR MATERIALS FOR THERMIONIC CONVERSION SYSTEMS
N64-22979 16-09

HIGH TEMPERATURE LIQUID METAL TECHNOLOGY FOR REACTOR ENGINEERING
BNL-866/PR-8/ N64-24959 17-27

HIGH TEMPERATURE REACTOR MATERIAL FABRICATION
N64-25423 17-18

OXIDE FILM TENACITY ON ALLOYS EXPOSED TO REACTOR COOLANTS
HW-79811 N64-25533 17-18

INSPECTION AND ANALYSIS OF MATERIALS FOR NUCLEAR REACTOR FUEL CORES
NLCO-905 N64-25628 17-23

ZIRCALOY-2 PRESSURE TUBES FOR NEUTRON-REACTOR
HW-80566 N64-25652 17-23

METALLURGICAL RESEARCH WITH REACTORS - REACTOR MATERIAL DEVELOPMENT
HW-81269 N64-25863 18-18

REACTOR MATERIALS, FUEL ELEMENTS, RADIOISOTOPES AND RADIATION, FISSION PRODUCTS, AND MECHANICAL PROPERTIES OF ZIRCONIUM AND ALUMINUM ALLOYS
BMI-1672 N64-25947 18-19

NUCLEAR RADIATION EFFECTS ON CORROSION OF REACTOR MATERIALS - MICROGRAVIMETRIC METHOD
EURAEC-874 N64-26045 18-23

DESIGN, PERFORMANCE ANALYSIS, AND COMPONENT AND MATERIAL TESTING FOR EXPERIMENTAL GAS COOLED REACTOR /EGCR/
ORNL-3619 N64-26303 18-23

FABRICATION, CREEP-RUPTURE TESTS, AND RADIATION EFFECTS ON REFRACTORY METALS AND ALLOYS FOR HIGH TEMPERATURE REACTOR COMPONENTS
GEMP-37A N64-26534 18-18

REACTOR MATERIALS, ALUMINUM ALLOYS, FUEL MATERIALS AND FISSION PRODUCT DEPOSITION STUDIES
BMI-1669 N64-26546 18-23

SYSTEM FOR NUCLEAR AUXILIARY POWER-10A /SNAP-10A/ DURING ORBITAL REENTRY - DETERMINATION OF REACTOR COMPONENT ABLATION
NAA-SR-9723 N64-27330 19-06

STRUCTURAL ANALYSIS AND TESTS OF SNAP 10A REACTOR
NAA-SR-9899 N64-27422 19-06

PITTING AND GALVANIC CORROSION OF ALUMINUM IN URANIUM ALUMINUM-CLAD FUEL SLUGS IN SUBCRITICAL AND ZERO POWER NUCLEAR REACTORS
DP-911 N64-28506 20-18

HIGH ENERGY X-RAY BURSTS OBSERVED BY ORBITING SOLAR OBSERVATORY I N64-30269 22-28

NONDESTRUCTIVE TEST OF CARBON BEDS FOR REACTOR CONTAINMENT
DP-910 N64-30303 22-10

DESIGN AND HAZARDS OF NUCLEAR RESEARCH REACTOR
LFEN.1 /BETA/ N64-30488 22-10

RADIATION EFFECT ON ZIRCALOY-2 PRESSURE TUBES AND FUEL CLADDING IN REACTORS
AECL-2021 N64-30631 22-18

METALLURGY OF REACTOR METALS - RADIATION EFFECTS ON STRUCTURAL AND FISSIONABLE MATERIALS
HW-82651 N64-31027 22-18

HIGH TEMPERATURE MATERIALS - REACTOR MATERIALS FABRICATION, THERMOCOUPLE, AND ELECTRICAL MATERIALS
GEMP-39A N64-31374 23-25

REACTOR TECHNOLOGY - FUEL ELEMENTS, RADIOISOTOPE AND RADIATION APPLICATIONS, CORROSION RESISTANCE, AND GAS COOLING
BMI-1681/DEL./ N64-31375 23-25

ORGANIC REACTOR COOLANTS
BNL-7650 N64-32161 23-13

NUCLEAR FUELS AND REACTOR MATERIALS DEVELOPMENT
TID-11295 3RD ED. N64-33090 24-18

LABORATORY APPARATUS TO STUDY REDUCTION OF IGNEOUS ROCK WITH CARBON, HYDROGEN, AND METHANE - UTILIZATION OF LUNAR RESOURCES
NASA-CR-59197 N64-33161 24-07

MATERIALS FOR NUCLEAR PROPULSION SYSTEMS IN SPACE
NASA-CR-52947 N64-33782 24-23

VACUUM & NUCLEAR RADIATION EFFECTS ON RESISTANCE OF ENGINEERING MATERIALS FOR SPACE VEHICLES & REACTOR ACCESSORY HARDWARE
NASA-RP-349 N64-33987 24-17

REACTOR PHYSICS
SUMMARY OF HEALTH PHYSICS RESEARCH REACTOR WORK & COBALT 60 SOURCE OPERATION IN BREN PROJECT
CEX-6203 N64-10408 01-16

NEUTRON PHYSICS PROGRAM - REACTOR PHYSICS, CRITICAL EXPERIMENTS, SHIELDING, COMPUTER PROGRAM, RADIATION DETECTOR, & WATER DESALTING
ORNL-3499, VOL. 1 N64-11472 03-23

NUCLEAR ENGINEERING - REACTOR PHYSICS, CHEMISTRY, METALLURGY, & ENGINEERING RESEARCH
BNL-799/S-64/ N64-13201 04-23

REACTOR & NUCLEAR PHYSICS, INSTRUMENTATION, APPLIED MATHEMATICS, & MACHINE COMPUTATIONS - MATERIALS TESTING REACTOR
IDO-16917 N64-13900 05-18

FUEL MATERIALS & FABRICATION METHODS, PHYSICS, CHEMICAL PROCESSING OF REACTOR FUELS & WASTE, IRRADIATION EFFECT ON FUELS, & TESTING
HW-78388 N64-14166 05-23

CRITICAL MASS, REACTOR, AND EXPERIMENTAL PHYSICS
HW-79054 N64-15200 07-23

SETTLED BED REACTOR, REACTOR PHYSICS, CHEMISTRY, RADIATION, HOT LABORATORY, METALLURGY, AND ENGINEERING STUDIES
BNL-823/S-65/ N64-15850 07-23

PERIGREE COMPUTER CODE FOR SOLVING ONE- OR TWO-GROUP NEUTRON DIFFUSION EQUATIONS BY FINITE DIFFERENCE METHODS - REACTOR SIMULATION
AECL-1901 N64-18492 10-20

GENERAL PARTIAL DIFFERENTIAL EQUATION FOR DETERMINING PHYSICAL PARAMETERS OF MOST LINEAR, SPACE DEPENDENT, REACTOR KINETIC MODELS
NAA-SR-7020 N64-19057 11-23

HISTORY OF NUCLEAR REACTOR DEVELOPMENT, PRESENT APPLICATIONS, & FUTURE IMPLICATIONS
BNL-838/T-329/ N64-20711 13-23

IBM 7090 COMPUTER PROGRAM FOR THERMAL UTILIZATION FACTOR IN REACTOR LATTICE CELL
EUR-1606.E N64-20880 14-23

EFFECTS OF MEASUREMENT ERRORS ON EXTRAPOLATED RADIUS AND HEIGHT CALCULATION FOR CYLINDRICAL REACTOR
EUR-1624.E N64-20882 14-23

THEORETICAL AND EXPERIMENTAL STUDIES ON REACTOR DYNAMICS AND CONTROL - NUCLEAR ENGINEERING
TID-7662 N64-22236 15-23

NOISE ANALYSIS IN NUCLEAR SYSTEMS
TID-7679 N64-28801 20-23

SETTLED BED REACTOR, REACTOR PHYSICS, METALLURGY, AND ENGINEERING
BNL-841/S-66/ N64-29944 21-23

REACTOR SAFETY
CF REACTOR CONTROL
PARTICLE AGGLOMERATION EFFECT ON PENETRATION BY RADIOACTIVE MATERIAL OF FILTERS USED WITH NUCLEAR REACTOR DOUBLE CONTAINMENT SYSTEMS
ORNL-RSIC-1 N64-10210 01-23

CHEMICAL METALLURGY, FUEL CYCLES, CALORIMETRY, REACTOR SAFETY, & ENERGY CONVERSION
ANL-6687 N64-10395 01-07

STANDARD HEALTH AND SAFETY REQUIREMENTS FOR USE BY NUCLEAR REACTOR TEST SITE PERSONNEL
IDO-12028 N64-10428 01-16

REACTOR TECHNOLOGY - NUCLEAR SAFETY, PRESSURIZED WATER REACTOR, XENON OSCILLATION, MATRIX ALGEBRA, AND AUTORADIOGRAPHY OF URANIUM OXIDE
WAPD-BT-29 N64-11341 02-23

MEASUREMENT OF RADIOACTIVE ARGON DISPERSION IN AIR TO DETERMINE DILUTION FACTORS OF REACTOR STACK
AECL-1868 N64-12970 04-23

SAFETY-ROD DROP-TIME SYSTEM FOR MEASURING FREE-FALL DROP TIME & SNUBBING TIME OF SAFETY RODS - REACTOR CONTROL
NAA-SR-7880 N64-13049 04-06

TEST REACTOR OPERATION AND SAFETY EXPERIENCE
HN-172/VOLS. 1&2/ N64-13906 05-10

MANUAL FOR OPERATIONAL DOCUMENTARY PHOTOGRAPHY REACTOR SAFETY PROGRAM
IDO-10037, REV. 1 N64-14412 06-15

AEROSPACE NUCLEAR RADIATION SAFETY - CIVILIAN AND MILITARY REACTOR SAFETY N64-14552 06-01

HAZARDS OF PLUTONIUM OXIDE - HYDROGENOUS COMPACT CRITICAL MASS EXPERIMENTS
HW-66266, SUPPL. 1, REV. N64-14922 06-23

SODIUM COOLED REACTOR, HNPF FUEL SURVEILLANCE PROGRAM, ORGANIC MODERATED REACTOR, SEPARATIONS CHEMISTRY AND REACTOR SAFETY
NAA-SR-8888 N64-19887 12-23

SAFETY TESTING AND ANALYSIS OF MODIFIED NUCLEAR AUXILIARY POWER REACTOR
IDO-16825 N64-20487 13-06

RADIATION PROTECTION AND CONTAMINATION CONTROL FOR EXPERIMENTAL GAS-COOLED REACTOR
EGCR-4 N64-21837 15-16

CALIBRATION OF QUICK PRESSURE-RELEASE MECHANISM WITH PIEZOELECTRIC PRESSURE GAUGES FOR NUCLEAR REACTOR SAFETY DEVICE
NOLTR-63-134 N64-25377 17-09

NUCLEAR SAFETY CONTROL PROGRAMS
NASA-CR-52946 N64-29783 21-27

EFFECTIVENESS OF DOUBLE CONTAINMENT VESSELS FOR HOLDUP OF AIRBORNE RADIOACTIVE MATERIALS IN EVENT OF REACTOR ACCIDENT
ORNL-3657 N64-30063 21-23

HANDBOOK FOR CALCULATION OF RADIATION SHIELDING REQUIREMENTS OF REACTORS
CEA-2253 N64-33743 24-23

REACTOR TECHNOLOGY
CIVIL APPLICATIONS OF REACTOR MATERIALS, FUELS, AND COMPONENTS
BMI-1644/DEL./ N64-10471 01-23

REACTOR TECHNOLOGY WITH CIVILIAN APPLICATIONS - MATERIALS, FUELS, & RADIOISOTOPES
BMI-1655/DEL./ N64-14159 05-23

TESTING NUCLEAR REACTOR INSTRUMENTATION WITH EXPONENTIAL SIGNALS
HW-79127 N64-14884 06-15

HIGH TEMPERATURE, HIGH PRESSURE, DOME SEAL FOR NUCLEAR REACTOR APPLICATION
HW-79205 N64-14923 06-34

TECHNIQUES FOR INPILE CAPSULE TRANSIENT HEATING EXPERIMENTS IN ORGANIC REACTORS
NAA-SR-9009 N64-14925 06-23

CHEMICAL PROCESSING TECHNOLOGY AT REACTOR FACILITY
IDO-14621 N64-14926 06-07

REACTOR TECHNOLOGY - FUEL ELEMENT PREPARATION & PROCESSING AND ELECTROCHEMICAL MACHINING
NLCO-900 N64-15999 07-17

REACTOR TECHNOLOGY AND RESEARCH - MATERIALS TESTING AND ENGINEERING TEST REACTORS
IDO-16932 N64-16126 08-23

X-RAY ABSORPTION COEFFICIENTS OF SEVERAL ALLOYS USED IN REACTOR TECHNOLOGY
ORNL-3552 N64-16297 08-23

BOILING WATER- AND LIQUID METAL-COOLED REACTORS - GENERAL REACTOR TECHNOLOGY, ADVANCED SYSTEMS AND NUCLEAR SAFETY
ANL-6840 N64-16299 08-23

REACTOR MATERIAL, COMPONENT, AND FUEL TECHNOLOGY
BMI-1659/DEL./ N64-16698 08-23

REACTOR TECHNOLOGY - METALLURGY, FUEL ELEMENT PREPARATION, AND COMPONENT PRODUCTION METHODS
ANL-6868 N64-20474 13-18

HISTORY OF NUCLEAR REACTOR DEVELOPMENT, PRESENT APPLICATIONS, & FUTURE IMPLICATIONS
BNL-838/T-329/ N64-20711 13-23

REACTOR TECHNOLOGY - FUEL ELEMENTS, CORROSION, CREEP, ZIRCONIUM ALLOYS, AND GAS COOLED REACTOR
BMI-1674-/DEL/ N64-28017 20-18

SOLID STATE FLOW MONITORING TRIP AND ALARM SYSTEM FOR REACTOR
AECL-1974 N64-28134 20-15

BOILING WATER REACTORS, LIQUID METAL COOLED REACTORS, REACTOR TECHNOLOGY, AND ADVANCED SYSTEMS RESEARCH
ANL-6912 N64-28928 20-23

AUTOMATIC STARTUP TECHNIQUE FOR NUCLEAR REACTORS
LAMS-3111 N64-29424 21-23

REACTOR DEVELOPMENT AND TECHNOLOGY - NUCLEAR SAFETY, BOILING WATER, AND LIQUID METAL COOLED REACTORS
ANL-6923 N64-29774 21-23

RADIATION PHYSICS AND REACTOR SHIELDING CALCULATION METHODS
NASA-CR-52958 N64-29787 21-23

READING MACHINE
PRESELECTOR DEVICE TO READ AND STORE DATA FROM TAPE TO AID FUNCTION OF SPARK CHAMBER READER
BNL-876/T-352/ N64-30232 22-15

AUTOMATED OPTICAL FILM SCANNER - SPARK CHAMBER READER
BNL-877/T-353/ N64-30377 22-15

READOUT
SA DATA READOUT SYSTEM
PROCESSING DATA ON DISTRIBUTION & EXCRETION OF INHALED FISSION PRODUCTS WITH AUTOMATIC READOUT COUNTING SYSTEM
LF-13 N64-14750 06-16

MAGNETOSTRICTION IN NICKEL WIRE SPARK CHAMBER READOUT LINES
UCRL-11620 N64-33086 24-09

MULTICHANNEL SIGNAL ANALYZERS - MEMORY SYSTEMS, ANALOG-TO-DIGITAL CONVERTERS, AND READOUT DEVICES
ANL-6881 N64-33414 24-15

REAGENT
S DIOXANE
S HEXAMETHYLENETETRAMINE

REAL GAS
REAL GAS HYPERSONIC NOZZLE FLOW PARAMETERS FOR NITROGEN IN THERMODYNAMIC EQUILIBRIUM
NASA-TN-D-2019 N64-10057 01-02

LANGLEY HOTSHOT TUNNEL AND REAL-GAS CORRECTION FACTORS FOR NITROGEN FLOW
NASA-TN-D-2023 N64-12103 03-10

EQUATIONS FOR EQUILIBRIUM CONCENTRATION IN DISSOCIATED REAL GASES WITH TERMS FOR THERMODYNAMIC FUNCTIONS
DVL-299 N64-15030 07-13

TOTAL ENTHALPY OF ONE-DIMENSIONAL NOZZLE FLOW USING REAL GASES
NASA-TN-D-2233 N64-16119 08-13

CALCULATING THERMODYNAMIC PROPERTIES OF REAL GASES AT HIGH TEMPERATURE N64-17177 09-13

CALCULATION OF ATOMIC PHOTOIONIZATION CROSS SECTIONS FOR REAL GASES
AID-P-64-12 N64-18385 10-23

REAL GAS FLOW FIELD AROUND BLUNT BODIES - DATA TABLES
RF-TR-63-18 N64-18591 11-02

FORTRAN COMPUTER PROGRAM FOR ANALYSIS OF ONE-DIMENSIONAL COMPRESSIBLE FLUID FLOW PROCESS IN REAL GAS
UCRL-7530 N64-18983 11-20

OBLIQUE SHOCK WAVE PARAMETER CORRELATION FOR SOME SPECIFIC HEAT RATIOS WITH APPLICATION TO REAL GAS FLOWS
NASA-TR-R-171 N64-19235 11-11

ISENTROPIC FLOW PROCESSES INVOLVING UNSTEADY EXPANSION WAVE IN EQUILIBRIUM REAL AIR
NASA-TR-R-167 N64-20286 13-11

REAL GAS FLOW PARAMETERS USING DATA ON IDEAL GAS FLOW AROUND INFINITE PLATE N64-23073 16-11

PERFLUOROCYCLOBUTANE - THERMODYNAMIC PROPERTIES OF REAL GAS
BM-RI-6475 N64-23249 16-26

THEORETICAL PREDICTION OF EQUILIBRIUM REAL GAS INVISCID FLOW FIELDS ABOUT BLUNT BODIES
NASA-CR-52876 N64-23394 16-02

HIGH PRESSURE REAL GAS DRIVERS AND TAILORING IN SHOCK TUNNEL
NPL-AERO-1088 N64-24923 17-11

HYPERSONIC FLOW FIELD CALCULATIONS - THREE DIMENSIONAL AND REAL GAS FLOWS N64-26134 18-02

REAL GAS EFFECT ON KEROSENE FUELED HYPERSONIC RAMJET PERFORMANCE N64-26330 18-27

NUMERICAL SOLUTION AND PROGRAMMING FOR PROBLEMS INVOLVING INTERSECTION OF SHOCKS AND SHOCK-BOUNDARY LAYER INTERACTIONS FOR REAL AND IDEAL GAS
NASA-CR-56414 N64-27905 20-11

INTERSECTION OF REAL GAS SHOCK WAVES WITH WEAK VORTEX SHEETS, AND LAMINAR BOUNDARY LAYER SOLUTION WITH REAL GASES
NASA-CR-56413 N64-30503 22-11

HIGH TEMPERATURE MAGNETOGASDYNAMICS, GAS DYNAMICS OF REAL AND CHEMICALLY REACTING GASES, AND DYNAMICS OF RAREFIED GASES
AD-601730 N64-31100 22-24

CHARTS OF EQUILIBRIUM REAL-GAS STAGNATION POINT CONDITIONS ON SPHERE FOR HIGH ALTITUDES AND HYPERSONIC SPEEDS
NOLTR-64-41 N64-32537 23-13

COMPUTER CALCULATIONS OF REAL GAS EFFECTS IN MASS FLOW THROUGH CRITICAL-FLOW NOZZLES
NASA RP-356 N64-34012 24-11

REAL TIME
FLASH AND REAL-TIME IDENTIFICATION OF HIGH PRIORITY TARGETS - PHOTO INTERPRETATION N64-10535 01-14

REAL-TIME COMPUTER PROGRAM FOR CDC 160-A COMPUTER TO CONTROL TELEMETRY ANTENNA
REPT.-62G-3 N64-14015 05-08

REAL TIME TRACKING & ORBIT PREDICTION PROGRAM FOR CIRCULAR, ELLIPTICAL, & HYPERBOLIC ORBITS WITH PERTURBATION FORCES
NASA-TM-X-51488 N64-14743 06-21

UNIVERSAL GUIDANCE MECHANIZATION EQUATIONS CAPABLE OF ACCURATE REAL TIME REPRESENTATION
TM-243-2-153 N64-17814 09-22

COMPUTER PROGRAMMING OF REAL-TIME SIMULATION PROBLEMS
NAVTRADEVCEN-1089-1 N64-21584 15-20

TRAVELING IMAGE DISPLAY DEVICE FOR CONTINUOUS REAL TIME OBSERVATION OF VIDEO INFORMATION FROM LINE SCAN SYSTEMS
IER-1 N64-22211 15-09

DIGITAL COMPUTERS FOR REAL TIME TRAINING SIMULATION
AMRL-TDR-64-22 N64-23971 16-20

IBM 7044 COMPUTER PROGRAM IN FORTRAN FOR DETERMINING LAUNCH ANGLES FOR UNGUIDED ROCKETS
ERDA-148 N64-24344 17-20

OBSERVATION INSTRUMENTS USED AS REAL TIME AND DAYLIGHT GEODETIC STELLAR CAMERAS
AFCRL-64-172 N64-24350 17-15

TELEMETRY DIGITAL OUTPUT TERMINAL FOR DATA PROCESSING, PREPARATORY TO REAL TIME ANALYSIS
ERDA-117 N64-25208 17-01

REAL TIME COMPUTER SYSTEM FOR PREDICTING MISSILE IMPACT POINT N64-29118 21-01

OPERATION AND MAINTENANCE MANUAL FOR UNIVERSAL PULSE FREQUENCY MODULATION /PFM/ REAL TIME DATA REDUCTION SYSTEM
NASA-TM-X-55066 N64-29181 21-20

OPERATION & MAINTENANCE MANUAL FOR UNIVERSAL PULSE FREQUENCY MODULATION, REAL TIME DATA REDUCTION SYSTEM
NASA-TM-X-55067 N64-29184 21-20

CREW PERFORMANCE DURING REAL TIME LUNAR LANDING MISSION SIMULATION
NASA-TN-D-2447 N64-29206 21-14

DESIGN AND DEVELOPMENT OF REAL TIME, AUDIO BANDWIDTH, HIGH SPEED CORRELATOR
RADC-TDR-64-158 N64-29931 21-09

REAL TIME COMPENSATION FOR TROPOSPHERIC RADIO REFRACTIVE EFFECTS ON RANGE MEASUREMENTS
NASA-CR-109 N64-31205 22-08

CIRCUITRY FOR AN ANALOG-TO-DIGITAL CONVERTER FOR REAL TIME EXPERIMENTS IN NUCLEAR PHYSICS
LNF-64/40 N64-32006 23-09

ELECTRONIC DATA SWITCHING INSTALLATION WITH REAL TIME COMMUNICATION
NASA-TM-X-55071 N64-33077 24-11

RECEIVER
PRELIMINARY DESIGN ANALYSIS OF BRAYTON CYCLE CAVITY RECEIVER USING LITHIUM FLUORIDE
NASA-CR-52390 N64-10140 01-17

SEPARATING TWO AMPLITUDE-MODULATED SIGNALS WITH OVERLAPPING SPECTRA IN RECEIVER
JPRS-18802 N64-10644 01-09

TELSTAR SATELLITE GROUND TRANSMITTER AND RECEIVER

N64-10880 02-10

MILLIMETER & SUBMILLIMETER RECEIVER & DETECTOR TECHNIQUES
NASA-CR-52685 N64-11104 02-23

RADIO INVESTIGATION OF IONOSPHERIC STRUCTURE BY MEANS OF DOPPLER SHIFT, AND APPARATUS FOR RECEIVING & RECORDING DOPPLER SHIFT DATA
JPRS-19069 N64-12501 04-01

COHERENT RADIO RECEIVER FOR RECORDING DIFFERENCE IN DOPPLER SHIFT OF RADIO-WAVE FREQUENCY OF SATELLITE TRANSMISSIONS N64-12503 04-08

IMPROVING REAL SELECTIVITY OF RADIO RECEIVERS N64-12742 04-08

SMALL MULTICHANNEL ELECTROENCEPHALOGRAPHIC TELEMETERING SYSTEM
RLE-TR-413 N64-13243 04-08

NATIONAL EMERGENCY ALARM REPEATER RECEIVER USING SOLID STATE CIRCUITRY
AD-426197 N64-13604 05-08

MASERS FOR LOW-NOISE RECEIVING SYSTEMS
NASA-CR-53044 N64-14895 06-25

NOTION OF RADAR TARGET AND MINIMUM ATTAINABLE RECEIVER BANDWIDTH N64-15134 07-08

FILTERING OF NOISE AND SIGNAL TRANSMISSION IN RECEIVING CIRCUIT CONTAINING NONLINEAR ELEMENTS N64-15136 07-08

CIRCUITS OF RECEIVING DEVICES IN CONTINUOUS WAVE RADAR SYSTEMS N64-15140 07-08

STABILIZATION OF GAIN OF PARAMETRIC AMPLIFIERS USED IN RADIOMETER RECEIVERS
AFCRL-63-573 N64-15685 07-09

BRAYTON CYCLE CAVITY RECEIVER DEVELOPMENT
NASA-CR-55734 N64-16267 08-06

DOPPLER EFFECT DURING RECEIVER MOVEMENT THROUGH METEROGENEOUS MEDIUM
FTD-TT-63-673/1&2 N64-16385 08-23

MULTICHANNEL SUPERHETERODYNE RECEIVER SYSTEM FOR SEARCH AND MONITOR OF AMPLITUDE AND FREQUENCY MODULATION SIGNALS
EDL-G200 N64-17287 09-08

DOPPLER-RECEIVER TO IMPROVE MISSILE TRAJECTORY MEASUREMENTS
WRE-TN-EID-67 N64-19485 12-08

SPECIFICATIONS FOR PROTOTYPE TRANSMITTERS AND RECEIVERS FOR FALLOUT SHELTER COMMUNICATION SYSTEM
TGGN-642 N64-21338 14-08

MULTICHANNEL PHASE TELEMETRY SYSTEM
FTD-TT-62-1636/1&2&4 N64-21655 15-08

OPTIMIZATION OF RECEIVER AND ENCODER FOR UNKNOWN SIGNAL WAVEFORMS IN MULTIPATH COMMUNICATIONS
USCEE-104 N64-21778 15-08

STANDARDIZATION OF ULTRAHIGH FREQUENCY FLIGHT TERMINATION RECEIVERS
IRMFSG-303-64 N64-22131 15-22

ELECTRONIC INDICATOR FOR SIGNAL TO NOISE RATIO PULSED SYSTEM RECEIVER VIDEO OUTPUT N64-22824 16-09

SPECTRUM SIGNATURE SYNTHESIS - SPURIOUS RESPONSES IN SINGLE & DOUBLE CONVERSION RECEIVERS & GAIN CHARACTERISITCS OF HIGH GAIN REFLECTOR ANTENNAS N64-22838 16-09

SOLID STATE DEVICES FOR SURVEILLANCE RADAR RECEIVERS AND TRANSPONDERS
WP-2785-7 N64-23907 16-09

SEMICONDUCTOR DIODE PARAMETRIC AMPLIFIER TO ENHANCE DYNAMIC RANGE OF RECEIVING SYSTEMS
ADC-TDR-64-83 N64-24193 16-09

STATISTICAL ANALYSIS OF CROSS-CORRELATION ELECTROMAGNETIC NOISE BETWEEN RADAR RECEIVERS
USCEE-107 N64-24228 16-09

RECEIVING SYSTEM FOR MEASUREMENT OF STATIC RADAR CROSS SECTION WITH PULSE RADAR SYSTEM N64-24308 17-08

HANDBOOK FOR RELIABLE OPERATION OF ANTENNAS, RECEIVERS AND TAPE RECORDERS
EDL-G169 N64-24914 17-09

LONG-LIFE K-BAND CRYSTAL PROTECTOR FOR TRANSMIT-RECEIVE TUBE
QPR-4 N64-25317 17-09

C- AND K-BAND SEMICONDUCTOR TRANSMIT-RECEIVE TUBE
REPT.-2 N64-25523 17-09

TRANSISTORIZED SOUND INTERMEDIATE FREQUENCY AMPLIFIER FOR USE IN HYBRID TELEVISION RECEIVER
BI-029 N64-27211 19-09

INSTRUCTION MANUAL FOR AIRBORNE RANGE AND ORBIT DETERMINATION /AROD/ VEHICLE TRACKING RECEIVER
NASA-CR-56951 N64-27308 19-08

RECEIVER NOISE FIGURE AND SENSITIVITY CALCULATION USING NOISE TEMPERATURE APPROACH
EDL-M658 N64-27779 19-08

INTEGRATED STANDARDS FOR TELEMETRY - REFERENCE SIGNAL GENERATORS, MULTIPLEXERS, TRANSMITTERS, RECEIVERS, AND MAGNETIC TAPE RECORDERS
ARTC-40 N64-28067 20-08

TRANSMISSION OF SEISMOGRAPHIC SIGNALS OVER WIDE FREQUENCY RANGE - MULTICHANNEL TELEMETRY SYSTEM N64-28510 20-08

MULTICHANNEL TELEMETRY SYSTEM N64-28523 20-08

METEOROLOGICAL SATELLITE GROUND PICTURE RECEIVER FOR MOBILE USE
USAELRDL-TR-2426 N64-28602 20-08

SYNCHRO RECEIVER AND APPLICATION TO NUCLEAR REACTOR AND WIND DIRECTION INDICATORS N64-31479 23-17

SIGNAL RECEPTION FROM INACCESSIBLE TRANSMITTER UNDER MULTIPATH PROPAGATION CONDITIONS
RADC-TDR-64-284 N64-31948 23-08

FERROELECTRIC BOLOMETER, SEMICONDUCTOR DIODES, AND FERRITE MODULATAOR FOR SUBMILLIMETER WAVE RECEIVER
NASA-CR-58947 N64-33206 24-08

DETECTION, GENERATION, MEASUREMENT, AND RECEIVER TECHNIQUES IN MILLIMETER AND SUBMILLIMETER WAVELENGTH REGIONS
NASA-CR-59335 N64-33775 24-19

RECEIVING SYSTEM
MINIMUM PERFORMANCE STANDARDS FOR AIRBORNE INSTRUMENT LANDING SYSTEM LOCALIZER RECEIVING EQUIPMENT
RTCA-20-63/DO-115 N64-10420 01-08

PROBABILITY OF DETECTION AND CORRECT DECISION AMONG ALTERNATIVES FOR PHASE-INCOHERENT RECEPTION
AFCRL-63-374 N64-12192 03-09

IMPROVING REAL SELECTIVITY OF RADIO RECEIVERS N64-12742 04-08

POST-AMPLIFIER NOISE TEMPERATURE CONTRIBUTION IN LOW NOISE RECEIVING SYSTEM
NASA-CR-53203 N64-17203 09-09

SATELLITE COMMUNICATIONS - PROPAGATION, ANTENNA AND RECEIVER FACTORS, COMPUTER USE, AND GROUND STATION SITING
DRTE-1122 N64-18241 10-08

SATELLITE COMMUNICATIONS - PROPAGATION, ANTENNA AND RECEIVER FACTORS, COMPUTER USE, AND GROUND STATION SITING N64-18242 10-09

DRIVING MECHANISM AND TRANSMITTING & RECEIVING SETS OF 60-PAGE TELETYPE - COMMUNICATION DEVICE
JPRS-23836 N64-18317 10-08

ELECTROMAGNETIC FIELDS IN FOCAL REGION OF PARABOLIC RECEIVING ANTENNA
REPT.-1223-16 N64-31687 23-08

LOW NOISE KA-BAND RECEIVING SYSTEM USING TUNABLE TRAVELING WAVE MASER AND RADIOMETER
REPT.-8298-1 N64-32594 23-08

PERFORMANCE OF GROUND RECEIVING SYSTEM FROM AUTOMATIC PICTURE TRANSMISSIONS FROM TIROS VIII SATELLITE
TR-2460 N64-32613 23-15

RECEPTION
S RADIO RECEPTION
S SIGNAL RECEPTION

RECEPTOR
VISUAL SYSTEM STRUCTURE AND PHOTORECEPTORS FOR RETINAL IMAGE - CYBERNETICS N64-12522 04-16

PATTERN RECOGNITION SYSTEMS - RECEPTOR EFFECTIVENESS AND SYMBOL RECOGNITION
REPT.-1070 N64-19418 12-23

EFFECTIVENESS OF RECEPTORS IN RECOGNITION SYSTEMS BASED ON STATISTICAL CLASSIFICATION THEORY
N64-19419 12-23

RECIPROCATING ENGINE
OIL SEALS FOR RECIPROCATING ENGINE - FRICTION MEASUREMENTS N64-19021 11-17

ELECTRIC MOTOR OF RECIPROCATING MOTIONS
N64-23577 16-09

MECHANICAL NOISE DUE TO PISTON SLAP IN RECIPROCATING MACHINERY
REPT.-1106 N64-24954 17-17

FLAME DEVELOPMENT AFTER IGNITION BY STABILIZED AND NONSTABILIZED ELECTRIC SPARK - RECIPROCATING ENGINE ECONOMY N64-31757 23-27

RECOGNITION
SA PATTERN RECOGNITION
SA TARGET RECOGNITION
CF COGNITION
CF PERCEPTION
DIGITAL COMPUTER SYSTEMS & COMPONENTS, AUTOMATIC SPEECH RECOGNITION RESEARCH
ESD-TDR-63-575 N64-17628 09-01

PERCEPTION AND RECOGNITION WITH RESPECT TO COMMUNICATIONS THEORY - HANDWRITING SIMULATION
N64-17879 10-20

ANIMAL DISCRIMINATION AND RECOGNITION IN NOISE-FREE ENVIRONMENT N64-18836 11-16

MULTIDIMENSIONAL MODEL FOR AUTOMATIC SPEECH RECOGNITION
AFCRL-64-85 N64-20123 13-15

MACHINE RECOGNITION - CONSTRUCTION AND DISPLAY OF THREE-DIMENSIONAL ARRAY OF SOLID OBJECTS FROM SINGLE TWO-DIMENSIONAL PHOTOGRAPH BY COMPUTER
MIT-TR-315 N64-29019 21-15

PARAMETER STUDY FOR AUTOMATIC SPEECH RECOGNITION SYSTEMS
RADC-TDR-64-196 N64-31908 23-08

RECOIL PROTON
PROTON-RECOIL SPECTROMETERS FOR MEASURING NEUTRON AND PROTON ENERGY SPECTRA FROM 10 TO 450-MEV
N64-12553 04-23

EFFICIENCY & RESOLUTION OF PROTON RECOIL SPECTROMETER - CALCULATION BY MONTE CARLO METHOD
N64-12555 04-23

TOTAL AND DIFFERENTIAL SOLID ANGLES FOR PROTON RECOIL SOLID STATE NEUTRON DETECTOR
AE-116 N64-19859 12-23

NEUTRON SPECTRA MEASUREMENT BY SEMIAUTOMATIC SCANNING OF RECOIL PROTONS IN PHOTOGRAPHIC EMULSIONS
AWRE-NR-5163 N64-30890 22-15

RECOMBINATION
EXHAUST NOZZLE RECOMBINATION OF HYDROGEN FUEL IN SUBSONIC RAMJET ENGINES AT HYPERSONIC SPEEDS
NASA-RP-56 N64-10291 01-02

BIMOLECULAR RATE CONSTANT FOR ION-ION RECOMBINATION OF GASEOUS IONS
UCRL-10904 N64-11986 03-23

NUMERICAL PREDICTIONS OF NONLINEAR DIFFUSION WITH HOMOGENEOUS RECOMBINATION AND TIME-VARYING BOUNDARY CONDITIONS
NASA-TN-D-2126 N64-12688 04-20

HYDROGEN ATOM RECOMBINATION CATALYSIS FOR INCREASE IN PROPELLANT SPECIFIC IMPULSE - ARC JET PROPULSION UNIT APPLICATION
NASA-CR-52376 N64-13061 04-23

REACTIONS OF IONS AND ELECTRICALLY EXCITED SPECIES WITH ATOMS AND MOLECULES IN GAS PHASE - SQUID PROJECT N64-13487 05-24

SURFACE RECOMBINATION OF DISSOCIATED ATOMS IN CHEMICALLY FROZEN BOUNDARY LAYERS
SSD-TDR-63-285 N64-13610 05-11

RECOMBINATION RADIATION & LASER ACTION IN GALLIUM ARSENIDE DIODES
TDR-169/3250-11/TN-2 N64-13843 05-25

CATALYSIS OF HYDROGEN ATOM RECOMBINATION IN NOZZLE FLOWS
AIAA PAPER-64-98 N64-14066 05-11

DISSOCIATION RATE AND RECOMBINATION OF DIATOMIC MOLECULES
AD-429188 N64-15957 07-23

MECHANISM OF RECOMBINATION IN SEMICONDUCTORS
FTD-TT-63-507/1&2 N64-16425 08-25

RADIATIVE RECOMBINATION IN TERMS OF DOUBLE ACCEPTOR FLUORESCENCE N64-18203 10-25

SPECTRAL DISTRIBUTION OF NATURAL RECOMBINATION RADIATION OF GALLIUM ARSENIDE AT DIFFERENT TEMPERATURES
FTD-MT-63-34/1&2 N64-18668 11-25

ION-ION RECOMBINATION CROSS-SECTION CALCULATIONS - ATMOSPHERIC DEIONIZATION
AFCRL-64-142 N64-19103 11-23

MOLECULAR STORAGE AND TRANSFER OF ELECTROMAGNETIC ENERGY IN GASEOUS PLASMAS - ATOM RECOMBINATION
RADC-TDR-63-275 N64-20025 13-24

COEFFICIENTS FOR ELECTRON ATTACHMENT, ELECTRON-MOLECULE COLLISIONS, AND ION-ION AND ELECTRON-ION RECOMBINATION IN ATMOSPHERIC GASES AND IMPURITIES
RTD-TDR-63-3076 N64-20112 13-24

RECOMBINATION PROCESSES IN IONOSPHERE
N64-20758 14-12

EFFECT OF EXHAUST NOZZLE RECOMBINATION ON HYPERSONIC RAMJET PERFORMANCE
AIAA PAPER-63-118 N64-23271 16-11

TEMPERATURE MEASUREMENT OF FREE ATMOSPHERE CONSIDERING ATOMIC RECOMBINATION
NASA-TT-F-215 N64-24591 17-13

RECOMBINATION RADIATION IN CADMIUM TELLURIDE DURING EXCITATION BY FAST ELECTRONS
JPRS-25344 N64-25126 17-23

THREE-BODY REACTIONS IN UPPER ATMOSPHERE & ATOMIC RECOMBINATION

NASA-CR-56783 N64-25507 17-12

EFFECT OF RECOMBINATION RATE ON FLOW OF DISSOCIATED HYDROGEN IN SHOCK HEATED HYDROGEN-ARGON MIXTURES IN SUPERSONIC NOZZLE EXPANSION FLOW
NASA-CR-58137 N64-26367 18-02

RECOMBINATION AND FLUCTUATION THEORY IN SEMICONDUCTORS
AFCRL-64-564 N64-26898 18-25

RECOMBINATION REACTIONS, SEPARATOR MATERIALS, AND ADDITIVES FOR SEALED ZINC-SILVER OXIDE BATTERY
QPR- 3 N64-28239 20-06

IMPURITY EFFECT ON RADIATION DAMAGE OF SILICON SOLAR CELLS - TENDENCY OF BORON ATOMS IN SILICON TO CREATE RECOMBINATION CENTERS
N64-29158 21-06

SENSITIVITY OF SCANNING FABRY-PEROT INTERFEROMETER, SPECTROGRAPH DESIGN, AND ION RECOMBINATION STUDIES - AEROSPACE VEHICLE DETECTOR
AD-602812 N64-30186 21-15

ION RECOMBINATION CALCULATIONS FOR MODELS OF NONEQUILIBRIUM PLASMAS N64-30450 22-24

PERTURBATION SCHEME BASED ON LIGHTHILL-FREEMAN NONEQUILIBRIUM DISSOCIATION-RECOMBINATION GAS MODEL FOR STABILITY OF FLOW SYSTEM ABOUT EQUILIBRIUM POINT
RE-167 N64-31263 22-11

AUGER RECOMBINATIONS WITH PARTICIPATION OF TRAPS IN GERMANIUM AND OTHER SEMICONDUCTORS
AFCRL-64-747 N64-31739 23-25

THREE-BODY COLLISIONAL RECOMBINATION OF CESIUM SEED IONS AND ELECTRONS IN HIGH DENSITY PLASMAS WITH ARGON CARRIER GAS
NASA-TN-D-2004 N64-32404 23-24

NONEQUILIBRIUM RECOMBINATION IN NOZZLES FOR LIQUID OXYGEN-HYDROGEN, FLUORINE-HYDROGEN, AND FLUORINE-LIQUID OXYGEN-HYDROGEN PROPELLANTS
TDR-269/4210-10/-6 N64-32482 23-26

RECOMBINATION COEFFICIENT
WORLDWIDE E-REGION EFFECTIVE RECOMBINATION COEFFICIENT DETERMINATION - LATITUDE & SEASON - ION CONCENTRATION & ELECTRON DRIFT
AFCRL-63-724 N64-11186 02-12

ION BEAM METHOD FOR MEASURING RECOMBINATION CROSS SECTION OF CESIUM IONS
TRECOM-TR-63-73 N64-14501 06-23

THREE-BODY RECOMBINATION COEFFICIENT OF ATOMIC NITROGEN
AD-428624 N64-14616 06-07

D-LAYER DISSOCIATIVE RECOMBINATION COEFFICIENT DETERMINED FROM HIGH ALTITUDE NUCLEAR EXPLOSION
P-2756 N64-16248 08-12

FORMATION OF F-1 AND F-2 LAYERS - ATMOSPHERIC IONIZATION AND RECOMBINATION COEFFICIENT
RPU-S13 N64-16932 09-12

DETERMINATION OF IONOSPHERIC RECOMBINATION COEFFICIENT
PSU-SR-204 N64-17784 09-12

AUGER EFFECTS & RECOMBINATION OF ELECTRONS & HOLES IN SEMICONDUCTORS
AFCRL-63-946 N64-18593 11-25

HYDROGENIC RECOMBINATION GAUNT FACTORS
N64-33457 24-05

RATE CONSTANTS OF IONIZATION AND RECOMBINATION REACTIONS IN HEATED AIR YIELDING HYDROGENIC IONS
TR-3153 N64-33465 24-24

RECONNAISSANCE
CF AERIAL PHOTOGRAPHY
CF SURVEILLANCE
AERIAL RECONNAISSANCE & PHOTOINTERPRETATION OF MAN MADE AND NATURAL LANDSCAPE CONFIGURATIONS
JPRS-17771 N64-10632 01-12

AERIAL RECONNAISSANCE SURVEY FOR GAMMA RADIATION
CEX-62.6.1 N64-12119 03-21

PHOTOINTERPRETATION ACCURACY AND SPEED AS FUNCTION OF IDENTIFICATION FEATURES, RESOLUTION, CONTRAST, AND SCALE - RECONNAISSANCE
RADC-TDR-63-224 N64-12639 04-01

ADAPTIVE MEMORIES AND PATTERN RECOGNITION TECHNIQUES FOR RECONNAISSANCE
RADC-TDR-63-371 N64-14309 06-20

TELEVISION, PHOTOGRAMMETRY, PHOTOMETRY, AND RADIOMETRY ADAPTABLE TO SPACE RECONNAISSANCE - LITERATURE SURVEY
NASA-CR-53045 N64-14890 06-08

OPTICAL ACCURACY OF K-17 AERIAL RECONNAISSANCE CAMERA
AD-434400 N64-18069 10-15

NEED FOR IMPROVISATION IN TACTICAL RECONNAISSANCE IN LIMITED WAR N64-19907 12-01

DENSITY DISCRIMINATION - SELECTION OF PARAMETERS FOR DETERMINING PERCENTAGE OF CLOUD COVER RECORDED ON AERIAL RECONNAISSANCE FILM
RADC-TDR-64-37 N64-20026 13-09

UNMANNED RECONNAISSANCE AIRCRAFT & NAPALM BOMBS
FTD-TT-62-1706/1&2 N64-23289 16-04

MATHEMATICAL MODEL OF RECONNAISSANCE SYSTEM, SIMULATED AERIAL PHOTOGRAPHY STUDY, AND THEORY AND CONSTRUCTION OF IMAGE ANALYZER UNIT
ITEK 9048-7 N64-27694 19-15

MATHEMATICAL MODEL OF RECONNAISSANCE SYSTEM, SIMULATED AERIAL PHOTOGRAPHY STUDY, AND THEORY AND CONSTRUCTION OF IMAGE ANALYZER UNIT
ITEK 9048-7 N64-27694 19-15

MEASURABLE PHOTOGRAPHIC PARAMETER RELATION TO INFORMATION CONTENT EXTRACTED FROM AERIAL RECONNAISSANCE PHOTOGRAPH
CAL-VE-1667-G-1 N64-31706 23-15

RECONNAISSANCE AIRCRAFT
METEOROLOGICAL SATELLITES AND RECONNAISSANCE AIRCRAFT WEATHER OBSERVING SYSTEMS
N64-11998 03-21

RECONNAISSANCE SPACECRAFT
RADIOISOTOPE FUELED AUXILIARY POWER UNIT FOR ADVANCED RECONNAISSANCE SPACECRAFT
MND-1123 N64-20195 13-06

PROBABILITY OF DETECTING SIGNALS FROM MISSILE BY RECONNAISSANCE SATELLITE AS FUNCTION OF RECEIVER SENSITIVITY, ANTENNA POLARIZATION, AND MISSILE ORIENTATION
EDL-M403 N64-31155 22-08

RECORDING INSTRUMENT
ALLOYING ELEMENT EFFECT ON PITTING CORROSION IN STAINLESS CHROMIUM-NICKEL STEEL, AND RECORDER FOR POTENTIAL DIFFERENCE AT SURFACE OF ALLOY
JPRS-22291 N64-12439 04-01

SEMIAUTOMATIC RECORDING OF POTENTIAL DIFFERENCE ON SURFACE OF STRUCTURAL COMPONENTS OF ALLOY
N64-12441 04-18

AUTOMATIC PROGRAMMING, CONTROLLING, AND RECORDING MACHINE FOR DATA ACQUISITION & CONTROL SYSTEM APPLICATION
SC-4944/RR/ N64-13233 04-20

MACHINE RECORD CARDS FOR RECORDING MEDICAL HISTORY - DEVELOPMENT & USE IN ASTRONAUT SELECTION
N64-13466 05-16

ALARM - PORTABLE AIRCRAFT CONDITION EVALUATOR RECORDER
TRECOM-TR-63-48 N64-14500 06-04

TRANSIENT-FREE AND TIME-STABLE SIGNAL REPRODUCTION FROM ROTATING HEAD RECORDERS N64-16166 08-08

PHOTOELECTRIC RECORDING APPARATUS AND MEASUREMENT OF ACCELERATION TOLERANCE OF HUMAN HEAD
AMRL-TDR-63-106 N64-16808 08-16

APPARATUS FOR RECORDING RAPIDLY VARYING DIELECTRIC LOSS FACTORS
RAE-TRANS-1056 N64-17250 09-09

WIDEBAND MAGNETIC TAPE RECORDING TECHNIQUES
TDR-269/9990/-1 N64-17367 09-23

MATERIAL TESTING - SIMULTANEOUS RECORDING OF STRESS, STRAIN, AND TIME DATA FOR 100 MICROSECOND LOADING DURATION WITH SPLIT HOPKINSON PRESSURE BAR
AD-433700 N64-18872 11-15

DEVICE FOR CONTINUOUS RECORDING OF SIGNAL-TO-NOISE RATIO
JPRS-24527 N64-20014 13-08

REMOTE CONTROLLED CUP ANEMOMETER WITH HIGH FREQUENCY DATA UNIT FOR MEASURING WIND SPEED
N64-20214 13-15

ELECTRONIC ANEMO-FLUCTUATION METER TO MEASURE STRUCTURAL PARAMETERS OF FLOW DIRECTION IN VERTICAL AND HORIZONTAL PLANES N64-20220 13-15

WIDE BAND RECORDER AND SUPPORTING EQUIPMENT
CLD-1596 N64-21994 15-09

CAMERA-OSCILLOSCOPE RECORDING EQUIPMENT FOR ATHENA PROGRAM RADAR
PA-3 N64-23279 16-15

TELEMETRY PREDETECTION RECEIVER RECORDER-REPRODUCER SYSTEM
MTC-TDR-63-11 N64-23358 16-08

ELECTRONIC STRUCTURAL ANALOG OF STABILITY OF AUTOMATIC TWO-AXIS RECORDER N64-24511 17-15

RECORDING INSTRUMENTS ON BOARD ELEKTRON I AND ELEKTRON II SATELLITES
NASA-TT-F-9040 N64-25118 17-12

PLOTTING AND ANALYZING CUMULATIVE RESPONSE CURVES IN OPERANT CONDITIONING STUDIES
NADC-ML-6406 N64-26237 18-14

HIGH SPEED RECORDING OF SMALL TEMPERATURE DROPS
N64-29149 21-15

DIGITAL RECORDING PROTON PRECESSION MAGNETOMETER SYSTEM - COMPUTER PROGRAMS
RR-64-4 N64-30017 21-15

AUTOMATIC RECORDING CONSTANT VELOCITY MOSSBAUER SPECTROMETER FOR IRON 57
TN-4 N64-30056 21-15

RECORDING APPARATUS FOR OPERATOR SENSORIMOTOR PERFORMANCE IN AUTOMATIC AND SEMIAUTOMATIC CONTROL SYSTEMS N64-30322 22-15

PHYSIOLOGICAL STUDIES - BIOLOGICAL CYBERNETICS, FLOATING RECORDING DEVICE FOR DIGESTIVE SYSTEM, AND NYSTAGMUS RECORDING INSTRUMENTATION
FTD-TT-64-386/1&2 N64-31074 22-16

PRESSURE TRANSDUCER FOR OPTICAL RECORDING OSCILLOGRAPH N64-31105 22-16

APPARATUS FOR ELECTRONIC DIFFERENTIATION OF CURRENT-VOLTAGE CHARACTERISTICS
NASA-TN-D-2161 N64-31730 23-15

INSTRUMENT FOR AUTOMATIC RECORDING OF MOTION OF AUTOMOBILE AT HIGH ALTITUDE N64-31865 23-15

COHERENT LIGHT-RECORDING TECHNIQUE TO ACHIEVE HIGH PACKING DENSITIES USING PHOTOGRAPHIC AND THERMOPLASTIC FILMS
RADC-TDR-64-203 N64-31909 23-25

METHODS AND INSTRUMENTS FOR METEOROLOGICAL OBSERVATIONS - RADIATION AND OPTICAL MEASUREMENT - AIRCRAFT AND RECORDING INSTRUMENTS - RADIOACTIVE ISOTOPES
JPRS-26742 N64-32328 23-21

DENSITY, PRESSURE, AND COMPOSITION OF RAREFIED GAS LAYERS OF ATMOSPHERE FROM ROCKET OR SATELLITE RECORDINGS N64-32334 23-12

CONTINUOUS RECORDING INSTRUMENT FOR WAVE PATTERNS ON WIND-AGITATED WATER SURFACE
AECL-2051 N64-32660 23-13

AUTOMATIC MEASURING-RECORDING INSTRUMENT FOR ANODE AND CATHODE POLARIZATION
AFCRL-64-518 N64-33933 24-13

RECOVERABLE SPACE VEHICLE
MEASURING DEMAND FOR RECOVERABLE SPACECRAFT COMPONENT
RM-3824-PR N64-16047 07-01

RECOVERY
JET FLAP THRUST RECOVERY VERIFICATION & MECHANISM IDENTIFICATION
SUDAER-144 N64-12115 03-09

RECOVERY BEHAVIOR OF COLD-WORKED METALS AT VARYING TEMPERATURES AND STRESSES
ASD-TDR-62-984 N64-12182 03-10

LABORATORY METHOD TO RECOVER MANGANESE FROM SLIMES AND LIMESTONES
BM-RI-6361 N64-14802 06-07

AEROTHERMODYNAMIC AND STRUCTURAL CHARACTERISTICS FOR PARAGLIDER BOOSTER RECOVERY SYSTEMS
N64-15263 07-30

CHARACTERISTICS OF HIGH TEMPERATURE MECHANISMS OF CREEP AND RECOVERY IN GRAPHITE
COA-NOTE-MAT-1, PT. 2 N64-15916 07-19

CATALYTIC HYDROCRACKING OF POLYPHENYLS FOR RECOVERY OF ORGANIC NUCLEAR REACTOR COOLANT
MRB-6003TI N64-16593 08-07

RECOVERY FACTOR AND HEAT TRANSFER DISTRIBUTIONS ON SET OF CONE MODELS - LAMINAR HYPERSONIC CAVITY FLOWS
ARL-63-73, PT. 2 N64-17329 09-02

LIQUID HYDROGEN TURBINE-POWER ABSORBER AND HEAT EXCHANGER RECOVERY SYSTEMS
NASA-CR-54010 N64-18417 10-06

DEPLOYMENT OF PARAWINGS FOR RECOVERY OF BOOSTERS AND NONLIFTING SPACECRAFT
AIAA PAPER-64-472 N64-23356 16-03

SEED RECOVERY AND CORROSION IN COAL FIRED MAGNETOHYDRODYNAMIC POWERPLANT
AVCO-EVERETT RES. REPT.-182 N64-25016 17-24

OPTIMIZING RECOVERY OF INTERPLANETARY SPACECRAFT THROUGH EARTH ATMOSPHERE
VKI-TN-17 N64-25796 17-30

HEMATOLOGICAL, BIOCHEMICAL, AND MORPHOLOGICAL CHANGES IN DOGS DURING RECOVERY PERIOD FROM RADIATION SICKNESS N64-32780 24-16

RECOVERY AND ISOLATION OF TECHNETIUM FROM FISSION PRODUCT WASTES
NASA-CR-58966 N64-33157 24-18

VISUAL RECOVERY FROM EXPOSURES TO VERY HIGH ILLUMINANCE FLASHES
TDR-2 N64-33459 24-14

RECOVERY DEVICE
FREE-FLIGHT INVESTIGATION OF RADIO CONTROLLED REENTRY SPACECRAFT WITH TELESCOPIC PARAWING RECOVERY SYSTEM
NASA-TN-D-2044 N64-11236 02-32

DEVELOPMENT OF SPACE STATION, SOLAR COLLECTOR, CRYOGENIC STORAGE TANK, AND ANTENNA FOR ELASTIC RECOVERY OF SPACE EXPANDABLE STRUCTURES

NASA-CR-55022 N64-11817 03-34

ROTARY WING DECELERATOR RECOVERY DEVICE - WIND-TUNNEL TESTING, AND FREE FLIGHT DROP TESTS AT SUBSONIC AND SUPERSONIC SPEEDS
R-467 N64-14970 06-04

PERFORMANCE RELIABILITY OF FULTON AIR-TO-GROUND PICKUP SYSTEM - RECOVERY DEVICE
TRECOM-TR-64-17 N64-23104 16-04

DEPLOYMENT OF PARAWINGS FOR RECOVERY OF BOOSTERS AND NONLIFTING SPACECRAFT
AIAA PAPER-64-472 N64-23356 16-03

LOW-SUBSONIC AERODYNAMIC CHARACTERISTICS OF DELTA-WING RECOVERY DEVICE FOR NONLIFTING SPACECRAFT
NASA TN-D-2349 N64-23625 16-03

ELASTIC RECOVERY CONCEPT FOR EXPANDABLE SPACE STRUCTURES N64-23725 16-30

RECOVERY LAUNCH VEHICLE
PARAMETRIC ANALYSIS OF LAUNCH VEHICLE RECOVERY TRADE-OFFS
TDR-269/4515-10/-2 N64-12582 04-30

RECOVERY PARACHUTE
ENTRY VEHICLE VELOCITY, ENTRY ANGLE, AND ESTIMATED ATMOSPHERIC VARIATIONS OF PARACHUTE RECOVERY SYSTEM FOR MARS ENTRY VEHICLE N64-15262 07-24

RECRYSTALLIZATION
METALLURGICAL BONDING BETWEEN PLASMA SPRAYED TUNGSTEN & HOT TUNGSTEN SUBSTRATES - INTERFACE & RECRYSTALLIZATION
NASA-RP-41 N64-10286 01-24

INFLUENCE OF TITANIUM, ZIRCONIUM, AND THORIUM OXIDES UPON THE RECRYSTALLIZATION OF MOLYBDENUM N64-11016 02-18

LARGE TUNGSTEN CRYSTALLITES GROWN BY RECRYSTALLIZATION DURING SINTERING OF TUNGSTEN SAMPLES N64-11019 02-25

TUNGSTEN SHEET - RECRYSTALLIZATION TEMPERATURES, COMPRESSION PROPERTIES, AND BEND-TRANSITION-TEMPERATURE CURVES
REPT.-6495-1479-IV N64-11758 03-18

CATALYTIC EFFECT OF OXIDE ADMIXTURES ON RECRYSTALLIZATION OF SILICA
FTD-TT-63-512/1&2 N64-12315 03-19

ALUMINUM OXIDE - CRYSTAL STRUCTURE, ORIENTATION, & RECRYSTALLIZATION
EUR-403.I N64-13051 04-19

COLD HARDENING AND RECRYSTALLIZATION OF STEEL ALLOY UNDER IMPACT DEFORMATION
FTD-TT-62-1318/1&2 N64-16346 08-18

MECHANICAL PROPERTIES & RECRYSTALLIZATION OF SINGLE CRYSTALS OF MOLYBDENUM
FTD-MT-63-43/1&2 N64-18670 11-18

OBTAINING HIGH PURITY ALUMINUM BY ZONE RECRYSTALLIZATION
JPRS-24459 N64-19917 12-25

RECRYSTALLIZATION OF BINARY ALLOYS OF MAGNESIUM WITH CERIUM N64-21191 14-18

X-RAY ANALYSIS OF RECRYSTALLIZATION OF BORIDES OF TITANIUM, ZIRCONIUM, AND MOLYBDENUM AND CARBIDES OF TITANIUM AND TUNGSTEN
JPRS-16059 N64-28632 20-07

EFFECT OF BORON ON RECOVERY AND RECRYSTALLIZATION OF PURE IRON & EFFECT OF PRECIPITATED IMPURITIES AND STRAIN ON GRAIN GROWTH IN PURE IRON
AD-602137 N64-28863 20-25

ISOTHERMAL RECRYSTALLIZATION OF ELECTROREFINED VANADIUM
BM-RI-6547 N64-33464 24-18

EXTRUSION, RECRYSTALLIZATION, AND MICROSTRUCTURE OF TUNGSTEN ALLOYS
AD-445063 N64-33752 24-18

ISOTHERMAL RECRYSTALLIZATION KINETICS OF ELECTRON BEAM ZONE REFINED IRON
ARL-64-131 N64-33927 24-18

RECTANGULAR GUIDE
CYLINDRICAL INHOMOGENEITY IN RECTANGULAR WAVEGUIDE N64-31356 23-09

ELECTROMAGNETIC FIELD IN REGION OF JOINT OF MULTIMODE RECTANGULAR WAVEGUIDES N64-31363 23-09

RECTANGULAR WING
WIND TUNNEL TESTS OF HIGH ASPECT RATIO RECTANGULAR WING FLAP
ARC-R&M-3329 N64-25717 17-03

FLIGHT TEST RESULTS FROM FOUR-COMPONENT BALANCE & OTHER AIRBORNE INSTRUMENTATION IN SUPERSONIC MISSILE WITH CRUCIFORM RECTANGULAR WINGS
WRE-TN-SAD-88 N64-28731 20-15

RECTIFICATION
PRECISE RECTIFICATION OF TIROS SATELLITE CLOUD PHOTOGRAPHS
MSL-R-14 N64-10011 01-21

RECTIFICATION PROCESS CONCERNED WITH OBSERVATION OF ACCURACY IN COMPUTATION OF OSCULATING ORBIT N64-18235 10-29

KINEMATIC RECTIFICATION IN DAMPED SINGLE AXIS GYROSCOPES
ARC-R&M-3358 N64-25496 17-15

RECTIFICATION OF OBLIQUE AERIAL PHOTOGRAPHS TO OBTAIN CONTOURS OF BASE SURGE FORMED BY UNDERWATER NUCLEAR EXPLOSION
NOLTR-64-91 N64-29860 21-21

ELECTRIC PROPERTIES OF BARRIER LAYER OXIDE FILMS AND MECHANISM OF ELECTROLYTIC RECTIFICATION N64-32844 24-25

RECTIFIER
RECTIFIERS AND SMOOTHING FILTERS, REGULATORS & VOLTAGE STABILIZERS, AND ELECTRIC CIRCUITS
FTD-TT-63-245 N64-12633 04-06

TWO TYPES OF COMPENSATED COMMUTATING MECHANICAL RECTIFIERS
FTD-TT-63-34/1&264 N64-19194 11-09

SILICON CONTROLLED RECTIFIER FOR ELECTRIC CURRENT SWITCHING - SOLID STATE DEVICE N64-19526 12-09

MAGNETORESISTANCE AND HALL EFFECT IN CONTROLLED RECTIFIER DEVICES USED FOR LOW VOLTAGE HIGH CURRENT CONVERTER
NASA-CR-56131 N64-20702 13-06

VOLTAMPERE CHARACTERISTICS OF RECTIFIER OF P-P-N STRUCTURE N64-24572 17-09

HIGH FREQUENCY PHASE COMPARATOR USING DIODE VECTOR RECTIFIERS FOR ROCKET INSTRUMENTATION
NASA-CR-58057 N64-26360 18-15

COMPACT HIGH-VOLTAGE SILICON RECTIFIER STACKS - PRODUCTION ENGINEERING
QPR-8 N64-31182 22-09

THERMOSTATIC CONDITIONING OF RECTIFIERS FOR MEASUREMENT OF VOLTAGE N64-31871 23-15

SILICON CARBIDE RECTIFIER PROGRAM - CRYSTAL GROWTH AND JUNCTION FORMATION TECHNIQUES, FABRICATION OF EPITAXIAL RECTIFIER, AND LIFE AND STORAGE TESTING OF DEVICES
ASD-IR-7-727/VIII N64-31916 23-25

DEVELOPMENT OF HIGH CURRENT, HIGH TEMPERATURE, ALKALI METAL VAPOR-FILLED CERAMIC THYRATRONS AND RECTIFIERS
NASA-CR-54181 N64-32690 23-09

HIGH VOLTAGE SILICON RECTIFIER STACKS
AD-603501 N64-33014 24-09

RECURSION FORMULA
DYNAMIC PROGRAMMING - RECURSION FORMULATION OF OPTIMIZATION PROBLEMS
RADC-TDR-64-10 N64-25637 17-29

NONLINEAR RECURSIVE ESTIMATION PROCEDURE - APPLICATION TO SPACE NAVIGATION - STOCHASTIC APPROXIMATION METHOD
NASA-CR-58962 N64-33171 24-20

REDUCTION
S DATA REDUCTION
S DRAG REDUCTION
S NOISE REDUCTION

REDUNDANT STRUCTURE
FATIGUE LIFE TESTING OF MULTIPLE LOAD PATH REDUNDANT STRUCTURES
ML-TDR-64-160 N64-32209 23-33

REDUNDANT SYSTEM
REDUNDANT AUTOMATIC SYSTEMS
JPRS-17577 N64-10696 02-06

RESERVE MECHANICAL SYSTEMS FOR OPERATIONAL PROBLEM IN REDUNDANT AUTOMATIC SYSTEMS N64-10697 02-06

COMPUTER RELIABILITY DEPENDENCE ON TIME FUNCTION & INTEGRATED APPARATUS N64-10698 02-06

RATIO OF REDUNDANT SYSTEMS TO RESERVE SYSTEMS FOR OPTIMUM PERFORMANCE N64-10699 02-06

IMPROVING RELIABILITY OF DIGITAL SYSTEMS THROUGH LOGICAL REDUNDANCY
NASA-CR-52605 N64-11077 02-20

DYNAMIC DECISION FUNCTION EVALUATION AND METHOD FOR ESTIMATING RELIABILITY OF REDUNDANT SYSTEMS
NASA-CR-55307 N64-14286 06-09

REDUNDANCY USED TO INCREASE LIFE OF UNATTENDED MACHINES
RM-3338-PR N64-17925 10-17

USE OF REDUNDANCY AS MEANS OF IMPROVING RELIABILITY - BIBLIOGRAPHY
SSD-TDR-63-375 N64-18012 10-01

EFFECT OF TARGET REDUNDANCY ON KILL PROBABILITY OF FRAGMENTATION WARHEADS N64-20699 13-01

MULTIPLE-LINE REDUNDANT SYSTEMS FOR INCREASING RELIABILITY CONTROL IN ELECTRONICS SYSTEMS
WGD-38516 N64-29640 21-09

REDUNDANT CIRCUITRY FOR IMPROVED RELIABILITY OF ELECTRONIC EQUIPMENT
NASA-CR-128 N64-32832 24-17

REENTRY
SA ATMOSPHERIC ENTRY
ATMOSPHERIC REENTRY PROBLEMS OF MANNED INTERPLANETARY FLIGHT N64-10043 01-32

AERODYNAMICS OF LOW-DENSITY, AUTOROTATING WINGS FOR MANNED ATMOSPHERIC REENTRY N64-10044 01-02

HIGH VELOCITY HYPERBOLIC REENTRY INTO EARTH ATMOSPHERE
MEMO 3-50000/3M-1576/ N64-10157 01-22

THREE-STAGE REVERSE FLOW REENTRY TURBINE ENGINE
NASA-TN-D-2076 N64-10184 01-02

SHALLOW ATMOSPHERIC ENTRY - ANALYSIS OF REENTRY TRAJECTORY, AERODYNAMIC HEATING AND VEHICLE ATTITUDE DYNAMICS
RTD-TDR-63-3098 N64-14908 06-30

CONTRIBUTION OF X-15 AIRCRAFT PROGRAM TO LIFTING REENTRY TECHNOLOGY
AIAA PAPER-64-17 N64-15273 07-04

NONLINEAR TRANSMISSION CHARACTERISTICS OF PLASMA SHEATH SURROUNDING TYPICAL HYPERSONIC REENTRY VEHICLE
AFCRL-63-133 N64-15584 07-24

X-BAND REENTRY TELEMETRY SYSTEM N64-16152 08-08

MANNED REENTRY TRAJECTORY FOR LIFTING VEHICLES N64-16525 08-29

RADIATIVE INSULATION SYSTEM FOR STRUCTURAL PROTECTION IN REENTRY ENVIRONMENT
ERR-FW-120 N64-18921 11-13

HAZARDS OF SATELLITE REENTRY DUE TO AERODYNAMIC HEATING - PROTECTIVE COATINGS & COOLING METHODS
FTD-TT-63-55/162 N64-19743 12-30

ATTITUDE CONTROL OF MANNED SPACECRAFT PERFORMING ORBITAL TRANSFER, RENDEZVOUS, & LIFTING REENTRY MANEUVERS
FDL-TDR-64-32 N64-20084 13-30

APPLICATION OF HIGH MOMENT-PRODUCING TECHNIQUES FOR ATTITUDE CONTROL OF MANNED SPACECRAFT PERFORMING ORBITAL TRANSFER AND LIFTING REENTRY
FDL-TDR-64-32, SUMMARY N64-20149 13-30

THEORETICAL PREFLIGHT TRAJECTORIES FOR RFD-1 REENTRY LAUNCH VEHICLES
SC-RR-64-510 N64-20537 13-30

MINIMUM DRAG ATMOSPHERIC REENTRY TRAJECTORY FOR SPACE VEHICLE WITH OFFSET CENTER OF GRAVITY N64-20952 14-22

GUIDANCE OF MANNED LIFTING VEHICLE DURING ATMOSPHERIC ENTRY MISSION AT SUPERCIRCULAR SPEEDS
SSD-TDR-64-85 N64-22296 15-32

TRAJECTORY AND LARGE AMPLITUDE MOTION OF SCOUT VEHICLE DURING FOURTH STAGE REENTRY FLIGHT
NASA-TN-D-2309 N64-23373 16-04

VISIBLE RADIATION AND NONEQUILIBRIUM FLOW FIELD AROUND VEHICLE IN REENTRY TRAJECTORY
NASA-CR-56626 N64-24025 16-02

REENTRY VOICE COMMUNICATION SYSTEM FOR USE IN CONJUNCTION WITH RADAR TRACKING EQUIPMENT
NASA-CR-74 N64-26705 18-04

EFFECT OF HIGH TEMPERATURE AND VEHICLE MANEUVERS ON DOPPLER ANTENNAS FOR LIFTING REENTRY VEHICLE
P-64-15 N64-26902 18-08

REFRACTORY METAL STRUCTURES AND COOLING FOR HYPERSONIC REENTRY VEHICLES N64-27026 19-18

ELECTRIC ARC WIND TUNNEL POWER SUPPLY FOR REENTRY STUDIES N64-27107 19-04

SYSTEM FOR NUCLEAR AUXILIARY POWER-10A /SNAP-10A/ DURING ORBITAL REENTRY - DETERMINATION OF REACTOR COMPONENT ABLATION
NAA-SR-9723 N64-27330 19-08

LIQUID METAL EXPANSION TECHNIQUE FOR MEASURING TOTAL AERODYNAMIC HEATING RATES TO HYPERSONIC REENTRY VEHICLES OF COMPLEX SHAPE
NASA-TN-D-2446 N64-28333 20-02

DESIGN AND PERFORMANCE OF LINEAR CROSSED-FIELD AIR PLASMA ACCELERATOR FOR REENTRY SIMULATION FACILITY
NASA-CR-58543 N64-28517 20-24

MATHEMATICAL MODEL FOR COMPUTER SIMULATION OF REENTRY VEHICLE TRAJECTORIES TO DETERMINE REQUIREMENTS OF GROUND ELECTRONIC SUPPORT SYSTEMS
ESD-TDR-64-135 N64-28580 20-30

USE OF MAGNETOHYDRODYNAMICS DURING HIGH SPEED REENTRY
NASA-CR-58042 N64-28923 20-24

EFFECT OF HIGH PRESSURE ON FLOW IN REFLECTED SHOCK TUNNEL - SIMULATION OF HYPERSONIC REENTRY

CONDITIONS
ARC-CP-730 N64-28963 20-11

IONIZATION OF AND RADIATION FROM SODIUM DURING REENTRY - CHEMISTRY OF SODIUM IN HYDROGEN/CARBON MONOXIDE/AIR FLAMES
AROD-5137-1 N64-29013 20-07

LANDING SITE COVERAGE FOR ORBITAL LIFTING REENTRY VEHICLES
SSD-TDR-63-97 N64-29312 21-29

APPROXIMATE METHOD FOR ESTIMATE OF BLACKOUT TIME AND DURATION AT REENTRY
NASA-TM-X-55059 N64-29516 21-08

CHEMICAL KINETICS OF SODIUM IN REENTRY - ELECTRON DENSITY AND RADIATION
R64SD33 N64-30980 22-07

HIGH ALTITUDE AIR-SAMPLING EQUIPMENT FOR REENTRY BURNUP EXPERIMENT
RTD-TDR-63-3043 N64-31160 22-15

USE OF ION PROBE FOR DIAGNOSIS OF REENTRY PLASMAS
AD-420827 N64-32138 23-24

ELECTROMAGNETIC WINDOW CONFERENCE - FABRICATION AND TESTING OF AIRBORNE RADOMES AND HYPERSONIC ENVIRONMENT
AD-605391 N64-32213 23-17

TRAJECTORY OF HYPERSONIC AERODYNAMIC LIFTING REENTRY VEHICLE IN BALLISTIC RANGE
CARDE-TR-512/64 N64-33471 24-02

REENTRY FLIGHT DEMONSTRATION OF SYSTEM FOR NUCLEAR AUXILIARY POWER-10A - DISASSEMBLY, PREFLIGHT AND POSTFLIGHT TEST ANALYSIS
SC-RR-64-515 N64-33746 24-06

REENTRY BODY
PRODUCTION OF INTENSE RADIATION HEAT PULSES SURROUNDING BODIES AT REENTRY VELOCITIES TYPICAL OF INTERPLANETARY FLIGHTS
NASA CR-55321 N64-13915 05-30

FINITE RATE PLASMA GENERATION IN LAMINAR AIR BOUNDARY LAYER OF SLENDER REENTRY BODY
N64-15252 07-24

LAMINAR HYPERSONIC WAKE LENGTH DURING BALLISTIC REENTRY OF BLUNT OBJECTS N64-16570 08-30

SHOCK LAYER RADIATION OF BLUNT BODIES AT REENTRY VELOCITY
NASA-TR-R-193 N64-17829 09-24

PRESSURE MEASUREMENTS FOR HYPERSONIC FLOW OVER WINGED REENTRY CONFIGURATION COMPOSED OF CABIN ON SWEPTBACK DELTA WING
RTD-TDR-63-4179, PT. 1 N64-18025 10-30

CHEMICALLY REACTING LAMINAR AIR BOUNDARY LAYER EQUATIONS FOR CONE SHAPED REENTRY BODIES AT VARIED FLIGHT CONDITIONS AND WALL TEMPERATURES
R64SD14 N64-19135 11-11

REENTRY BODY - LONGITUDINAL STABILITY AND PRESSURE CENTER LOCATION ON SHARP RIGHT CIRCULAR CONES AT HYPERSONIC SPEEDS
NASA-TN-D-2283 N64-19322 12-02

OPTICAL SIGNATURE DATA COLLECTED BY CINESPECTROPHS FROM RADIATION EMITTED BY REENTRY BODY N64-29113 21-08

LAMINAR BASE FLOW BEHIND CONICAL REENTRY BODIES
TM-R-110 N64-32176 23-11

HEAT TRANSFER AND PRESSURE MEASUREMENTS ON FIRE PROJECT REENTRY MODEL IN SUPERSONIC WIND TUNNEL
NASA-TN-D-2000 N64-34017 24-13

REENTRY CONDITION
TRAJECTORY CALCULATION, REENTRY CONDITIONS, LANDING SITE, AND INJECTION CONDITIONS FOR RETURN-TO-EARTH FROM LUNAR ORBIT
NASA-TM-X-51082 N64-10103 01-22

INSTRUMENTATION EVALUATION AND OBSERVATION OF PHENOMENA ASSOCIATED WITH ATMOSPHERIC REENTRY AT ORBITAL VELOCITIES
AFSWC-TDR-63-58 N64-12937 04-30

COMMUNICATION BLACKOUT AT REENTRY - APPROXIMATE COMPUTATION METHOD
NASA-CR-55167 N64-13335 04-08

ELECTRODELESS PLASMA ACCELERATOR FOR SIMULATING REENTRY ENVIRONMENTS
ASD-TDR-63-834 N64-19111 11-10

ANNOTATED BIBLIOGRAPHY ON MATERIALS FOR REENTRY CONDITIONS AND RELATED COOLING SYSTEMS
RR-TR-64-1 N64-21495 15-30

REENTRY CONDITION SIMULATOR FOR TESTING NOSE CAPS OF DYNA-SOAR SPACE GLIDER
REPT.-311.11 N64-21820 15-10

OPERATING ENVELOPES OF SUPERSONIC ELECTRIC ARC AIR HEATERS FOR REENTRY ENVIRONMENT SIMULATORS
NASA-CR-99 N64-28307 20-10

WIND DATA FOR BALLISTIC MISSILE REENTRY SYSTEMS - ATHENA ROCKET
ERDA-119 N64-32422 23-21

CHEMICAL KINETICS OF SODIUM IN REENTRY CONDITIONS
REPT.-6450810 N64-32460 23-07

REENTRY EFFECT
HYPERSONIC WIND TUNNEL FOR STUDY OF REENTRY HEATING
SUDAER-164 N64-13975 05-10

AIR PLASMA ARC MATERIALS TESTING FOR REENTRY
SSD-TDR-64-75 N64-24347 17-24

CHEMICAL REACTIONS AND IONIZATION PHENOMENA DURING LAUNCH AND REENTRY - BIBLIOGRAPHY
BMI-197-10-2 N64-25110 17-23

REENTRY SIMULATION IN ARC HEATED HYPERSONIC WIND TUNNEL
NASA-TN-D-2344 N64-25188 17-10

TANTALUM OXIDATION DURING SIMULATED REENTRY
SC-RR-64-575 N64-25609 17-13

REENTRY HEATING AND MODE OF DISINTEGRATION OF MODEL SNAP 10A REACTOR LAUNCHED INTO SUBORBITAL TRAJECTORY
NAA-SR-9479 N64-27139 19-06

REENTRY HEATING EXPERIMENT TO BE FLOWN BY SCOUT LAUNCH VEHICLE TO TEST ABLATING MATERIALS FOR USE IN APOLLO PROJECT FLIGHT N64-27657 19-02

ELECTRONIC TRACKING ERRORS GENERATED BY REENTRY AND FLAME PLASMA EFFECTS
TM-3865 N64-31891 23-08

RADIO TRACKING SYSTEM TEST PLAN FOR FLIGHT INVESTIGATION OF REENTRY ENVIRONMENT FOR ATLAS LAUNCH VEHICLE
REPT.-64A240 N64-32149 23-08

REENTRY GUIDANCE
ATMOSPHERIC REENTRY GUIDANCE AND CONTROL METHODS - BIBLIOGRAPHY
IAS-PAPER-63-86-REV. N64-10160 01-22

TERMINAL CONTROL GUIDANCE DURING DIRECT & SKIP ENTRIES AT PARABOLIC VELOCITY
NASA-TN-D-2055 N64-14393 06-29

REENTRY AEROPHYSICS, PENETRATION, GUIDANCE AND CONTROL, RECOVERY SYSTEMS AND SPACE ELECTROMAGNETICS
AD-427701 N64-15251 07-01

DERIVATION OF THREE-DIMENSIONAL THREE-DEGREE-OF-FREEDOM REENTRY EQUATIONS OF MOTION IN TERRESTRIAL NAVIGATIONAL COORDINATES
NASA-TM-X-54561 N64-15885 07-29

FLIGHT DATA COMPUTER AS REENTRY CONTROL DIRECTOR

SMFD-2-6 N64-16824 08-20

GEMINI SPACECRAFT REENTRY GUIDANCE SYSTEM SIMULATION
NASA-CR-56127 N64-20707 13-30

GUIDANCE OF LIFTING VEHICLES ONTO REFERENCE TRAJECTORY DURING ATMOSPHERIC ENTRY
NASA-TR-R-151 N64-21429 14-30

APPLICATION OF PERTURBATION THEORY TO LUNAR LANDING AND LONG RANGE REENTRY GUIDANCE
NASA-RP-209 N64-24963 17-22

OPTIMAL REENTRY GUIDANCE STUDY - DIGITAL COMPUTER PROGRAM
BR-3060-2 N64-30776 22-22

COMPUTER PROGRAM FOR ANALYSIS OF OPTIMAL REENTRY GUIDANCE
BR-3060-1 N64-30891 22-29

REENTRY PHYSICS
BLACKBODY RADIATION TABLES FOR REENTRY PHYSICS
TN-AMSMI-RNR-1-63 N64-13856 05-02

AEROSPACE NUCLEAR RADIATION SAFETY REENTRY FLIGHT TESTS N64-14575 06-30

REENTRY BURNUP OF HYDRIDED ZIRCONIUM-URANIUM ALLOY N64-14576 06-18

REENTRY OF FUELED GRAPHITE PARTICLES N64-14577 06-30

SOURCE TERM COMPUTER PROGRAM - INTEGRATED TREATMENT OF REENTRY PROBLEMS N64-14578 06-23

RADIATION FROM SLOTTED-CYLINDER ANTENNAS IN REENTRY PLASMA ENVIRONMENT
NASA-TN-D-2187 N64-15048 07-24

REENTRY AEROPHYSICS, PENETRATION, GUIDANCE AND CONTROL, RECOVERY SYSTEMS AND SPACE ELECTROMAGNETICS
AD-427701 N64-15251 07-01

ANALOG SIMULATION OF DYNAMIC EQUATIONS OF ATMOSPHERIC BALLISTIC REENTRY
AEDC-TDR-63-257 N64-15522 07-20

DATA REDUCTION AND INTERPRETATION METHODS FOR HEAT TRANSFER DATA FROM REENTRY AND OTHER FLIGHT TESTS
NASA-CR-55580 N64-15535 07-30

LAMINAR HYPERSONIC WAKE LENGTH DURING BALLISTIC REENTRY OF BLUNT OBJECTS N64-16570 08-30

SHOCK LAYER RADIATION OF BLUNT BODIES AT REENTRY VELOCITY
NASA-TR-R-193 N64-17829 09-24

GEMINI SPACECRAFT REENTRY GUIDANCE SYSTEM SIMULATION
GD/A-DBE-64-010 N64-20144 13-23

REENTRY PHYSICS RESEARCH BY CANADIAN GOVERNMENT
BSC-39259 N64-22904 16-30

CENTRIFUGALLY STABILIZED STRUCTURE FOR ATMOSPHERIC ENTRY FROM SPACE - AERODYNAMIC FORCES ON ROTOR BLADE ELEMENT DEVELOPED USING NEWTONIAN MOMENTUM CONCEPT
NASA-CR-69 N64-23670 16-02

REENTRY PHYSICS RESEARCH - CHEMICAL REACTIONS IN SHOCK HEATED GAS MIXTURES, HYPERVELOCITY WAKE STUDIES, AND LIGHT GAS GUN AND SHOCK TUBE FACILITY DEVELOPMENT
GDA-DBE64-034 N64-27692 19-23

USE OF MAGNETOHYDRODYNAMICS DURING HIGH SPEED REENTRY
NASA-CR-58042 N64-28923 20-24

PHOTOGRAPHIC SPECTROMETRY AND RADIOMETRY FOR MEASUREMENT OF REENTRY OBSERVABLES - RADIANT ENERGY TRANSFER EQUATIONS
R64SD1023 N64-30866 22-15

REENTRY VEHICLE
SA FIRST PROJECT
CF SPACECRAFT
CF TRAILBLAZER I REENTRY VEHICLE
FEASIBILITY STUDY OF BANG-BANG PATH CONTROL FOR REENTRY VEHICLES
NASA-TN-D-2049 N64-10452 01-04

FREE-FLIGHT INVESTIGATION OF RADIO CONTROLLED REENTRY SPACECRAFT WITH TELESCOPIC PARAWING RECOVERY SYSTEM
NASA-TN-D-2044 N64-11236 02-32

VELOCITY-ELECTRICAL CONDUCTIVITY TRANSDUCER FOR AXISYMMETRIC REENTRY VEHICLES
TDR-269/4810-20/-1 N64-12071 03-02

AERODYNAMIC HEATING OF CONICAL VEHICLES ENTERING EARTH ATMOSPHERE AT SPEEDS GREATER THAN EARTH PARABOLIC SPEED
NASA-TR-R-185 N64-12107 03-30

ATTENUATION OF RADIO SIGNALS PASSING THROUGH THE SHOCK LAYER OF LARGE REENTRY VEHICLES
NASA-TM-X-51027 N64-12399 03-08

IMPORTANCE OF REENTRY VEHICLE PARAMETERS TO RADIO FREQUENCY ATTENUATION
TDR-269/4810-30/-1 N64-12600 04-09

REENTRY VEHICLE MODEL WITH PASSIVE LANDING SYSTEM TO ALLEVIATE LANDING-IMPACT LOADS
NASA-TN-D-2035 N64-12877 04-30

PROPERTIES OF PLASMA FLOW AROUND REENTRY VEHICLE BY MEASURING ADMITTANCE OF ANTENNA RADIATING IN PRESENCE OF PLASMA
NASA-CR-55141 N64-13191 04-08

MECHANICAL SPALLATION OF PLASTIC CHARRING ABLATORS - THERMAL PROTECTION FOR REENTRY VEHICLES
R63SD53 N64-14679 06-13

ENTRY VEHICLE DESIGN STUDY
NASA-RP-118 N64-14758 06-04

AERODYNAMIC FACTORS AFFECTING DESIGN OF ORBITING REENTRY VEHICLES - HEAT SHIELD, DRAG, AND LIFT
ER-673, VOL. 1 N64-15193 07-30

ENVIRONMENTAL FACTORS AFFECTING DESIGN OF ORBITING REENTRY VEHICLES
ER-673, VOL. 2 N64-15194 07-30

FINITE RATE PLASMA GENERATION IN LAMINAR AIR BOUNDARY LAYER OF SLENDER REENTRY BODY N64-15252 07-24

MONTE CARLO SIMULATION OF MULTIPLE REENTRY VEHICLE DELIVERY N64-15257 07-30

NONLINEAR TRANSMISSION CHARACTERISTICS OF PLASMA SHEATH SURROUNDING TYPICAL HYPERSONIC REENTRY VEHICLE
AFCRL-63-133 N64-15584 07-24

AERODYNAMIC PHENOMENA ASSOCIATED WITH HIGH PERFORMANCE, SLENDER REENTRY VEHICLES N64-15631 07-30

SHOCK-WAVE INDUCED, HIGH SPEED PLASMA STUDY, TO DEVELOP VELOCITY MEASUREMENT FOR REENTRY VEHICLES
RTD-TDR-63-4108 N64-16660 08-27

VELOCITY LIMITATIONS ON VEHICLES ENTERING ATMOSPHERE WITH HIGH MASS LOSS
NASA-TR-R-162 N64-16931 09-13

ANGULAR TRACKING RATES REQUIRED OF INSTRUMENTS FOR CONTINUOUS VIEWING OF BALLISTIC REENTRY VEHICLE - FORTRAN PROGRAMS
TN-AMSMI-RNR-63-2 N64-17309 09-08

COMPUTING RADAR ECHO FROM REENTRY VEHICLES
RM-3251-PR N64-17318 09-08

SURFACE RADIATION FROM REENTRY VEHICLES
PA-38 N64-17436 09-30

FLIGHT CONTROL SYSTEMS FOR REENTRY GLIDER LATERAL CONTROL
ASD-TDR-62-699 N64-17443 09-22

ADAPTIVE AUTOMATIC FLIGHT CONTROL FOR REENTRY GLIDER N64-17811 09-30

METHODS FOR FABRICATING INFLATABLE REENTRY VEHICLE OF ROGALLO WING PARAGLIDER CONFIGURATION CAPABLE OF HYPERSONIC SPEEDS - FIRST PROJECT
SGC-335-1 N64-18065 10-17

MULTIPURPOSE MANNED REENTRY VEHICLE CAPABLE OF ENTRY AT CIRCULAR TO HYPERBOLIC VELOCITIES - DESIGN STUDY
NASA-RP-151 N64-18323 10-29

LONGITUDINAL AND LATERAL DIRECTION FLYING QUALITY OF PILOTED REENTRY VEHICLES
TE-1516-F-1 N64-18640 11-30

DESIGN, FABRICATION, AND TESTING OF M-1-L REENTRY VEHICLE WIND TUNNEL MODEL
NASA-CR-53716 N64-19253 11-30

GUIDANCE SYSTEM EQUATIONS FOR ATHENA ROCKET - REENTRY VEHICLE
BSD-TDR-64-37 N64-19664 12-30

STRUCTURAL DESIGN FOR LIFTING REENTRY VEHICLES
NASA-TN-D-2186 N64-19878 12-30

ELECTROMAGNETIC WAVE SCATTERING BY PLASMA SYSTEMS AND APPLICATION TO REENTRY BODY TRACKING PROBLEMS
RCA-DTM-62-24 N64-20351 13-08

THEORETICAL PREFLIGHT TRAJECTORIES FOR RFD-1 REENTRY LAUNCH VEHICLES
SC-RR-64-510 N64-20537 13-30

HIGH PERFORMANCE SPHERICAL ROCKET MOTOR FOR TRAILBLAZER II REENTRY VEHICLE
REPT.-3868-01F N64-20719 13-27

TEMPERATURE CONTROL SYSTEM FOR MARS ATMOSPHERE ENTRY VEHICLE
NASA-CR-56178 N64-20743 13-13

BLAST LOADING AND TARGET RESPONSE OF BALLISTIC MISSILE REENTRY VEHICLES
TM-1152 N64-21032 14-30

POINT-MASS TRAJECTORY DATA FOR MANEUVERABLE BALLISTIC MISSILE REENTRY VEHICLES
NOLTR-63-193 N64-21248 14-29

TURBULENT BASE FLOW BEHIND SLENDER SUPERSONIC REENTRY VEHICLES
DOC.-63SD849 N64-21566 15-02

PILOT PERFORMANCE REQUIREMENTS IN LIFTING BODY AND REENTRY VEHICLES IN HYPERSONIC AND SUBSONIC FLIGHTS
NASA-TM-X-56005 N64-22440 15-16

E-M WINDOW FOR AIR LIFT REENTRY VEHICLES
IER-4 N64-22509 15-34

AIR RADIATION FROM NONEQUILIBRIUM WAKES OF BLUNT HYPERSONIC REENTRY VEHICLES
RM-4071-ARPA N64-22616 15-11

AERODYNAMIC HEATING OF ATMOSPHERIC REENTRY VEHICLES
NASA-TM-X-54056 N64-23266 16-13

DESIGN, DEVELOPMENT, AND PERFORMANCE OF FLIGHT VEHICLE FOR REENTRY FLIGHT DEMONSTRATION NUMBER ONE /RFD-1/
SC-RR-64-511 N64-23283 16-30

FLEXIBLE FIBROUS MATERIALS AND COATINGS FOR EXPANDABLE REENTRY SYSTEMS N64-23704 16-18

INFLATED PARAGLIDER FOR ESCAPE FROM MANNED ORBITING SPACE STATION N64-23715 16-32

ANNOTATED BIBLIOGRAPHY ON RADIO FREQUENCY TRANSMISSION THROUGH PLASMA SHEATH OF REENTRY VEHICLES
SB-64-10 N64-23884 16-24

FEASIBILITY OF IN SITU MEASUREMENTS OF REENTRY VEHICLE WAKES
AD-441549 N64-23981 16-02

ENTRY VEHICLE PROBLEMS RELATED TO MARS ENTRY OF UNMANNED PROBE AND TO EARTH ENTRY ABOVE ESCAPE SPEED
AIAA PAPER-64-528 N64-24169 16-27

CAPABILITY OF LATERAL CONTROL SYSTEM TO PROVIDE AERODYNAMIC HEADING-ANGLE CONTROL OF VEHICLE HAVING MAXIMUM LIFT-DRAG RATIO DURING REENTRY
NASA-TN-D-2343 N64-24588 17-05

SPECTROGRAM OF VISIBLE RADIATION EMITTED FROM TRAILBLAZER II REENTRY VEHICLE
NASA-TN-D-2347 N64-24590 17-30

PREDICTION OF INERTIAL, GRAVITATIONAL, AND AERODYNAMIC FORCE EFFECTS ON VEHICLE SPIN MOTION
FZE-4-059 N64-25019 17-23

APPROXIMATE SOLUTIONS FOR FLIGHT PATH ANGLE OF REENTRY VEHICLE IN UPPER ATMOSPHERE
NASA-TN-D-2379 N64-25914 18-29

COMPUTER CODE FOR SIMULATING INTERACTION BETWEEN REENTRY VEHICLE AND SHOCK WAVE FROM NUCLEAR EXPLOSION - HYDRODYNAMICS
TO-B-64-10 N64-25958 18-11

RADIATIVE HEATING OF VEHICLES ENTERING EARTH ATMOSPHERE N64-26157 18-13

EFFECT OF HIGH TEMPERATURE AND VEHICLE MANEUVERS ON DOPPLER ANTENNAS FOR LIFTING REENTRY VEHICLE
P-64-15 N64-26902 18-08

EARTH REENTRY VEHICLE FOR USE IN MANNED MARS MISSION N64-26990 19-32

REFRACTORY METAL PROTECTIVE COATING SYSTEMS FOR HYPERSONIC GLIDER REENTRY VEHICLE N64-27017 19-17

PHYSICAL PROPERTIES OF NIOBIUM ALLOY EVALUATION AS STRUCTURAL MATERIAL FOR REENTRY VEHICLE
D2-20239-1 N64-27084 19-18

PHYSICAL PROPERTIES OF NIOBIUM ALLOY - EVALUATION AS STRUCTURAL MATERIAL FOR REENTRY VEHICLE
D2-20275-1 N64-27085 19-18

RELIABILITY OF ADVANCED BALLISTIC REENTRY SYSTEMS
GD/A-DDH-64-021 N64-27529 19-17

REFRACTORY ELEMENT AS PROTECTIVE COATING FOR EARTH REENTRY VEHICLE N64-27590 19-17

LANGMUIR PROBE USED TO MEASURE ELECTRON DENSITY IN PLASMA SHEATH AROUND REENTRY VEHICLE
NASA-CR-56371 N64-27909 20-24

MATHEMATICAL MODEL FOR COMPUTER SIMULATION OF REENTRY VEHICLE TRAJECTORIES TO DETERMINE REQUIREMENTS OF GROUND ELECTRONIC SUPPORT SYSTEMS
ESD-TDR-64-135 N64-28580 20-30

CONICAL AFTERBODY EFFECT ON REARWARD STATIC STABILITY OF BLUNT NOSED ENTRY VEHICLE AT SUPERSONIC SPEED
NASA-CR-58614 N64-28834 20-02

AEROTHERMOELASTIC PROBLEMS WITH SCALING LAWS IN DYNAMIC MODEL SIMULATION OF REENTRY GLIDE VEHICLES N64-29271 21-33

LANDING SITE COVERAGE FOR ORBITAL LIFTING REENTRY VEHICLES
SSD-TDR-63-97 N64-29312 21-29

BALLISTIC MISSILE REENTRY STUDIES - NONEQUILIBRIUM TURBULENT WAKE FLOW, BASE FLOW, INJECTION AND ABLATION, AND INVISCID NONEQUILIBRIUM FLOW
STL-6433-6007-SU-000 N64-30644 22-11

STRUCTURAL DESIGN OF HIGH TEMPERATURE INSULATING MATERIAL SYSTEMS FOR REENTRY VEHICLES
N64-30911 22-34

METAL-CERAMIC COMPOSITE MATERIALS FOR HIGH TEMPERATURE STRUCTURAL APPLICATION TO REENTRY VEHICLES
ML-TDR-64-583 N64-30929 22-18

SLIP-CAST FUSED SILICA ELECTROMAGNETIC WINDOWS FOR AIR LIFT REENTRY VEHICLES
IER-5 N64-31130 22-19

LARGE LOW DENSITY METALLIC AIRMAT FABRICS FOR REENTRY VEHICLES
ASD-TR-7-904/IX/ N64-31248 22-34

INSTRUMENTATION DATA ON REENTRY FLIGHT VEHICLE DEMONSTRATION
SC-RR-64-502 N64-32070 23-30

RADIATIVE HYDRODYNAMICS AND HEAT TRANSFER RELATING TO REENTRY VEHICLES
KN-684-64-12 N64-33001 24-13

REFERENCE SYSTEM
DETERMINATION OF EARTH REFERENCE ELLIPSOID AND GEODETIC DATA BASED ON SATELLITE OBSERVATION
JPRS-18002 N64-10731 02-12

TELLUROMETRIC MEASUREMENTS FOR GEODETIC REFERENCE SYSTEM, AT HEPPEN AND GOETTINGEN, WEST GERMANY
N64-16207 08-15

TIME AS DIRECTIONAL CONTROL IN SPACE REFERENCE SYSTEM N64-20618 13-05

REFERENCE SYSTEM FOR EVALUATION AND CALIBRATION OF MICRODISPLACEMENT READOUT SYSTEM
HW-80271 N64-25782 17-06

HUMAN BEHAVIOR - EVOLUTION OF PERCEPTUAL REFERENCE SYSTEMS
AD-600319 N64-27094 19-14

LOCATION AND SCHEDULING OF OPERATION OF ECCENTRIC GEOPHYSICAL OBSERVATORY /EGO/ IN GEGENSCHEIN REFERENCE SYSTEM
NASA-TM-X-55032 N64-27813 19-29

ABSOLUTE- AND REFERENCE-SYSTEM METHODS OF MEASURING CONTAINMENT-VESSEL LEAKAGE RATES
NASA-TN-D-1588 N64-30994 22-17

REFINING
SA CLEANING
SA ELECTROREFINING
SA PURIFICATION
CADMIUM REFINING BY AMALGAM ELECTROLYSIS
BM-RI-6352 N64-14244 06-17

METAL CASTING TECHNIQUE - VACUUM AND INERT GAS PROCESS FOR REFINING MOLTEN METALS
AD-432974 N64-17484 09-17

MELT REFINING PROCESS FOR PURIFYING EXPERIMENTAL BREEDER REACTOR-2 /EBR-2/ FUEL
ANL-6725 N64-18201 10-23

RECOVERY OF ZINC FROM GALVANIZERS DROSS AND ZINC-BASE DIE-CAST SCRAP BY SIMULTANEOUS REFINEMENT AT LOW TEMPERATURES WITH INEXPENSIVE EQUIPMENT
BM-RI-6417 N64-18639 11-17

HYDROPURIFICATION OF REFINED DIESEL OIL WITH ALUMINUM-NIOBIUM-MOLYBDENUM CATALYST
FTD-TT-62-1735/1&2&4 N64-22632 15-07

REFLECTED RAY
LIGHT SCATTERING IN HIGHLY REFLECTING PIGMENTED COATINGS - SILVER HALIDE CRYSTALS
NASA-CR-52187 N64-10089 01-19

REFLECTION
SA IONOSPHERIC REFLECTION
ULTRAVIOLET FLUORESCENCE OF AMINO ACIDS IN FROG MUSCLES
JPRS-19287 N64-11068 02-16

ELECTROMAGNETIC RADIATION REFLECTION BASED ON CLASSICAL ELECTRODYNAMICS
RF-TR-63-4, VOL. 1 N64-12178 03-23

SPECULAR REFLECTION & ABSORPTION OF RUTILE AND GROWTH OF CRYSTALS BY FLAME FUSION
MIT-TR-184 N64-15011 07-01

SPECULAR REFLECTANCE ON SINGLE CRYSTALS AND ABSORPTION ON THIN FILMS OF RUTILE
N64-15012 07-23

MENTAL REFLECTION PROCESSES IN LIGHT OF CYBERNETICS - PSYCHOLOGY
JPRS-23370 N64-15417 07-14

MATHEMATICAL SOLUTION FOR REFLECTION AND TRANSMISSION OF PLANE COMPRESSIONAL WAVES
AFCRL-64-205 N64-15684 07-23

REFLECTION AND REFRACTION IN NONTURBULENT AIR FOR DESIGN OF HIGH PRECISION LASER RADAR SYSTEMS
EE-101 N64-18771 11-23

MODIFIED JAMIN INTERFEROMETER FOR OPTICAL TESTING
N64-19545 12-23

SPECULAR REFLECTION OF PLANE WAVE BY PLASMA-CLAD CONDUCTING BODY OF REVOLUTION
RCA-DTH-63-05 N64-20568 13-24

HIGH FREQUENCY RADIO WAVE REFLECTION BY SPORADIC E LAYER OF IONOSPHERE
WRE-TN-CPD/T/101 N64-20626 13-12

REFLECTION FROM BODIES IN FAR FIELD AND LASER BEAM MEASUREMENTS WITH RESPECT TO INTENSITY AND TIME
AD-423641 N64-22547 15-08

IMAGE-PLANE REFLECTIVITY RANGE N64-24729 17-08

OPTICAL MEASUREMENTS ON CONES AND CYLINDERS - LIGHT REFLECTION
EDL-M614 N64-24758 17-23

SURFACE ALBEDO OF LAND AND SEA IN ARCTIC
N64-24795 17-12

NEUTRON REFLECTION & FLUX VERSUS DEPTH AND NEUTRON DOSE TRANSMISSION VERSUS SLAB THICKNESS FOR ALUMINUM
BRL-1238 N64-26050 18-23

INFORMATION THEORY - LENIN CONCEPT OF CAUSALITY
JPRS-26012 N64-27669 19-14

ABSORPTIVITY DETERMINATIONS FROM REFLECTIVITY MEASUREMENTS INCLUDING BOTH DIFFUSE AND SPECULAR REFLECTION
ARC-CP-601 N64-28030 20-23

REFLECTION TYPE LASER AMPLIFIER
TR-2467 N64-28526 20-25

ANTIREFLECTION COATINGS AND COVER GLASSES FOR IMPROVED SILICON SOLAR CELL PERFORMANCE
N64-29169 21-06

FABRICATION OF RELATIVELY TRANSPARENT GERMANIUM PHOTOVOLTAIC CELL BACKED BY OPTICALLY REFLECTIVE ELECTRODE N64-29170 21-06

INTERNAL STRUCTURE OF CRYSTAL AND EXTERNAL MEASUREMENTS OF REFLECTION AND TRANSMISSION
TR-2 N64-29812 21-25

SATELLITE CONFIGURATIONS FOR REFLECTION OF OPTICAL SIGNALS FROM HIGH POWER LASERS
AFCRL-64-475 N64-29909 21-08

SURFACE ROUGHNESS EFFECT ON HEMISPHERICAL AND SPECULAR REFLECTANCE OF METALLIC SURFACES IRRADIATED BY BLACK BODY IRRADIATION
ASME PAPER-63-HT-6 N64-30787 22-13

LUNAR SURFACE TEMPERATURE DUE TO REFLECTION OF COSMIC RADIO EMISSION
NASA-TT-F-8964 N64-30857 22-23

FORMULATION OF BOUNDARY VALUE PROBLEM IN IRIS LOADED INFINITE PERIODIC WAVEGUIDE WITH GLIDE REFLECTION SYMMETRY
TR-75 N64-31831 23-08

TRANSIENT REFLECTION AND TRANSMISSION OF PLANE WAVE NORMALLY INCIDENT UPON SEMIINFINITE ANISOTROPIC PLASMA
AFCRL-64-550 N64-32110 23-24

RESONANT MODES OF LASER CAVITY HAVING END MIRRORS WITH PERIODIC REFLECTIVITY
AFCRL-64-355 N64-32206 23-23

ELECTROMAGNETIC WAVE REFLECTION FROM OSCILLATING, COLLISION-FREE MAGNETOIONIC MEDIUM
AFCRL-64-610 N64-32476 23-08

LONG RANGE COMMUNICATION BY REFLECTIONS FROM ORBITING METALLIC FIBERS - WEST FORD PROJECT
AD-443271 N64-32868 24-08

REFLECTIVITY OF METALS IN EXTREME ULTRAVIOLET
AFCRL-63-927 N64-33029 24-25

LIGHT SCATTERING IN HIGHLY REFLECTING PIGMENTED COATINGS - OPTICAL PROPERTIES OF SILVER BROMIDE SUSPENSIONS IN THIN FILMS
NASA-CR-59144 N64-33164 24-23

SPECULAR REFLECTION OF PHONONS IN SUPERFLUID HELIUM
NASA-CR-59293 N64-33333 24-23

ATTENUATED TOTAL REFLECTION SPECTROSCOPY OF PAINT VEHICLES
R-240 N64-33417 24-23

CALCULATION OF ELECTRONIC DIFFRACTION PATTERNS CONTAINING TWIN REFLECTIONS
OR-6112 N64-33418 24-25

REFLECTION COEFFICIENT
CALCULATIONS FOR REFLECTION OF ELECTROMAGNETIC WAVES FROM LOSSY MAGNETOPLASMA - IONOSPHERIC D-LAYER NONRECIPROCAL REFLECTION
NBS-TN-205 N64-10470 01-24

TABLES OF ELECTROMAGNETIC RADIATION REFLECTION COEFFICIENTS
RF-TR-63-4, VOL. 2 N64-12374 03-23

CHARACTER OF DIELECTRIC SCATTERER FROM REFLECTION COEFFICIENT IN ONE-DIMENSIONAL ELECTROMAGNETIC PROPAGATION
AD-422444 N64-14029 05-23

CALCULATION OF REFLECTION COEFFICIENT OF CLOUDS
LAS-TR-199-50 N64-15996 07-05

LIGHT SCATTERING IN PIGMENTED SURFACE COATING WITH HIGH REFLECTION COEFFICIENT
NASA-CR-53118 N64-16757 08-23

REFLECTION COEFFICIENT OF SOLIDS IN VACUUM ULTRAVIOLET
NASA-CR-53114 N64-16760 08-25

REFLECTIVITY OF BRAYTON CYCLE SOLAR COLLECTOR
NASA-CR-53357 N64-18104 10-06

REFLECTANCE OF WHITE PHOTOGRAPHIC PAPER
NASA-CR-56456 N64-24052 16-19

TEMPERATURE MEASUREMENT AND REFLECTION COEFFICIENT OF LUNAR SURFACE
FTD-TT-62-1514/1&2 N64-24260 17-29

REFLECTION COEFFICIENTS AND ALBEDO OF LUNAR SURFACE N64-24262 17-29

REFLECTION PROPERTIES OF AIRCRAFT MATERIALS WITH ILLUMINATION BY PULSED LASERS N64-24310 17-08

VECTORIAL REFLECTANCE OF EXPLORER IX SATELLITE
NASA-TN-D-2388 N64-26270 18-23

ABSORPTIVITY DETERMINATIONS FROM REFLECTIVITY MEASUREMENTS INCLUDING BOTH DIFFUSE AND SPECULAR REFLECTION
ARC-CP-601 N64-28030 20-23

EXPRESSION FOR CALCULATING IONOSPHERIC REFLECTION COEFFICIENT FOR WAVE HORIZONTALLY POLARIZED BEFORE AND AFTER REFLECTION
NEL-1221 N64-29859 21-08

REFLECTION AND TRANSMISSION COEFFICIENTS FOR SOLIDS IN CONTACT WITH ICE AT PLANE INTERFACES
CRREL-110 N64-30177 21-25

IONOSPHERIC REFLECTION COEFFICIENT & GROUP HEIGHT OF REFLECTION FOR LOW FREQUENCY RADIO WAVES CALCULATED BY FULL WAVE METHOD
AFCRL-64-611 N64-30546 22-12

NOMOGRAM FOR MODULUS DETERMINATION AND PHASE OF REFLECTION COEFFICIENT OF RADIO WAVE N64-31353 23-09

RADIO WAVE REFLECTION COEFFICIENT FOR SMOOTH INHOMOGENEOUS LAYER N64-32228 23-08

REFLECTOMETER
CF OPTICAL INSTRUMENT
HEATED CAVITY REFLECTOMETER FOR THERMAL REFLECTANCE MEASUREMENTS OF OPAQUE SURFACE N64-10947 02-13

SILICON PHOTOVOLTAIC CELL FOR MEASUREMENT OF TRANSMITTANCE AND REFLECTANCE OF TRANSPARENT MATERIALS FOR SOLAR RADIATION N64-10955 02-15

IDENTIFICATION OF TRANSMISSION LINE DISTURBANCES BY TIME DOMAIN REFLECTOMETRY TECHNIQUE N64-20490 13-15

RADIO FREQUENCY PHASE DEVIATION STABILITY REQUIREMENTS FOR BALANCED CONTINUOUS WAVE RADAR REFLECTOMETERS N64-24305 17-08

REFLECTOMETER FOR MEASURING ABSOLUTE HEMISPHERICAL SPECTRAL REFLECTANCE OF SURFACES
AIAA PAPER-64-255 N64-24981 17-15

REFLECTOR
SA MIRROR
SA SOLAR REFLECTOR
BROADBAND LINE SOURCE ILLUMINATOR FOR SPHERICAL REFLECTING SURFACE
AFCRL-63-302 N64-11457 03-23

SCATTERING OF ELECTROMAGNETIC WAVES BY PERFECTLY REFLECTING OBJECTS OF COMPLEX SHAPE - RADAR CROSS SECTION
TR-EE63-8 N64-11537 03-09

LENS-REFLECTOR COMMUNICATIONS SATELLITE MODEL
GER-11123 N64-12189 03-32

MIRROR REFLECTOR FOR TELESCOPE N64-13678 04-23

LENS REFLECTOR ELEMENT FOR PASSIVE COMMUNICATIONS SATELLITE
ASD-TDR-63-781 N64-14321 06-32

CONE-AND-COLUMN DOUBLE REFLECTOR SOLAR CONCENTRATOR FOR SPACE EXPLORATION
NASA-CR-52845 N64-14904 06-06

FRESNEL ZONE PLATE INSTRUMENT FOR CONTRAST TRANSFER FUNCTION, POINT IMAGING, AND DISTORTION MEASUREMENTS
E-T-G-63-32 N64-15373 07-23

ATTITUDE STABILIZATION OF BEAM RADIATION MAKING USE OF STABILIZED REFLECTOR - ANTENNA
SSD-TDR-63-358 N64-17357 09-30

RETRODIRECTIVE REFLECTING PROPERTIES OF CORNER REFLECTOR USED TO AIM LASER BEAM
NAVWEPS-8481 N64-20398 13-25

ERRORS IN PARABOLIC ANTENNAS USED IN RADIO TELESCOPES N64-20510 13-09

MEANS OF CONTROLLING UNDESIRED RADIATION FOR HORN, PARABOLIC REFLECTOR, AND LUNEBERG LENS ANTENNAS FOR REDUCING RADIO FREQUENCY INTERFERENCE
RADC-TDR-63-549 N64-21071 14-09

APPLICATION OF FRESNEL ZONE THEORY IN DESIGNING OF SPHERICAL REFLECTOR FOR MICROWAVE ANTENNA SYSTEMS
AFCRL-62-950 N64-21084 14-08

FLAT PLATE REFLECTOR AND SUPPORT UNIT FOR LARGE-APERTURE ANTENNAS
FR-64-14-69 N64-21446 14-09

MONOPOLE PHASED ARRAY FEED FOR SPHERICAL REFLECTOR
AFCRL-64-291 N64-22611 15-08

SPECTRUM SIGNATURE SYNTHESIS - SPURIOUS RESPONSES IN SINGLE & DOUBLE CONVERSION RECEIVERS & GAIN CHARACTERISITCS OF HIGH GAIN REFLECTOR ANTENNAS
N64-22838 16-09

EXPANDED ALUMINUM MESH FOR INFLATABLE RIGID REFLECTING DEVICE N64-23718 16-09

TESTING OF 60-CM PARABOLIC MIRROR AND SELECTION OF MIRROR MATERIALS
FTD-TT-64-170/1&2&3&4 N64-27089 19-15

TESTING OF 60 CM PARABOLIC MIRROR
N64-27090 19-15

SCATTERING PROPERTIES OF PARABOLOIDAL REFLECTOR, HORN, AND STUB ANTENNAS
REPT.-1223-12 N64-27528 19-08

GEOMETRIC OPTICS APPLIED TO SPHERICAL REFLECTORS
AFCRL-64-292 N64-28568 20-23

BACKSCATTERING OF FAST NEUTRONS FROM PLANE AND SPHERICAL REFLECTORS N64-28655 20-23

PARABOLIC REFLECTOR WITH COSINE PRIMARY FEED
WRE-TN-EID-62 N64-28719 20-23

SPACE SOLAR POWER SUPPLY - CENTRIFUGALLY DEPLOYED FRESNEL REFLECTOR, HELIOTROPIC ORIENTATION SYSTEM, BELT RADIATOR, AND TURBO-ALTERNATOR
NASA-CR-122 N64-32831 24-06

SOLAR SPACE POWER SUPPLY - FRESNEL REFLECTOR, HELIOTROPIC ORIENTATION, BELT RADIATOR, & ROTARY BOILER-TURBINE
NASA-CR-58760 N64-33801 24-06

REFLEX
SA CONDITIONED RESPONSE
DYNAMICS OF FATIGUE CONDITION DETERMINATION USING REFLEXOMETER AND TREMOMETER TO MEASURE MOTOR REACTION TIME AND FINGER TREMOR
JPRS-21974 N64-10385 01-14

MEASUREMENT OF LOW FREQUENCY FLUCTUATIONS IN REFLEX DISCHARGE
MATT-249 N64-17253 09-24

HIGH NERVOUS ACTIVITY AND CONDITIONED REFLEXES
JPRS-23833 N64-17351 09-16

REFLEX CONTROL OF ABDOMINAL MUSCLES IN POSITIVE PRESSURE BREATHING N64-17930 10-16

HUMAN EYE REFLEX RESPONSE TO VERTICAL ACCELERATION AND RELATIONSHIP TO LABYRINTH - ELEVATOR ILLUSION
FPRC-1213 N64-25846 18-16

EFFECTS OF ATROPINE ON REFLEXES OF SCHIZOPHRENIA PATIENTS N64-31460 23-14

CONDITIONED RESPIRATORY REFLEX AND RESPONSE TO CARBON DIOXIDE UNDER INFLUENCE OF CHLORPROMAZINE
FTD-TT-64-69/1&2&4 N64-33102 24-16

REFRACTION
SA ABERRATION
SA ATMOSPHERIC REFRACTION
CF LIGHT TRANSMISSION
EFFECT OF REFRACTION OF SETTING SUN IN SPACE - THEORY & EXPERIMENT
NASA-RP-58 N64-14869 06-12

REFLECTION AND REFRACTION IN NONTURBULENT AIR FOR DESIGN OF HIGH PRECISION LASER RADAR SYSTEMS
EE-101 N64-18771 11-23

RADIOMETERS, BALLOON FLIGHT DATA, AND USE OF STELLAR REFRACTION AS METEOROLOGICAL SATELLITE TECHNIQUE
NASA-CR-53970 N64-20599 13-01

FORTRAN PROGRAM FOR ENERGY RATIOS OF REFLECTED AND REFRACTED WAVES AT FLAT BOUNDARIES
TR-9 N64-22257 15-23

ATMOSPHERIC AND STELLAR REFRACTION MEASUREMENTS
FTD-TT-62-1343/1&2 N64-23460 16-01

FOCUSING PROPERTIES OF OPTICAL SYSTEMS AND STELLAR REFRACTION N64-23462 16-16

DOUBLE REFRACTION ARTIFICIALLY PRODUCED BY COMPRESSION OF REGULAR CRYSTALS
RSIC-185 N64-25221 17-23

REFRACTION OF POLARIZED LIGHT IN PHOTOELASTIC STUDY
RSIC-191 N64-25224 17-33

REFRACTION AND DOPPLER SHIFT OF RADIO WAVES RADIATED BY ARTIFICIAL EARTH SATELLITES IN THREE-DIMENSIONAL HETEROGENEOUS IONOSPHERE
FTD-TT-64-384/1&2&4 N64-26122 18-08

RADIAL SHEARING INTERFEROMETER BASED ON LAW OF REFRACTION N64-26408 18-23

REFRACTION OF SATELLITE SIGNALS
N64-26994 19-12

REFRACTION OF SATELLITE SIGNALS
N64-27039 19-12

CORRECTION OF NEAR-HORIZONTAL RADAR ELEVATION ANGLES FOR ATMOSPHERIC REFRACTION
PMR-TM-64-6 N64-28794 20-08

REAL TIME COMPENSATION FOR TROPOSPHERIC RADIO REFRACTIVE EFFECTS ON RANGE MEASUREMENTS
NASA-CR-109 N64-31205 22-08

STATIC REFRACTORY ERROR OF CHIMPANZEE EYE UNDER SERNYL ANESTHESIA
ARL-TDR-64-9 N64-32026 23-16

RAY TRACING OF REFRACTIVE ERRORS ON INTERFEROGRAMS OF CYLINDRICAL AND PLANAR DISTURBANCES
BRL-1251 N64-32033 23-15

REFRACTIVE INDEX
INTERFERENCE SEPARATION MIRRORS WITH LOW AND HIGH ALTERNATING REFRACTIVE INDICES IN FLUORESCENT MICROSCOPY
JPRS-19786 N64-11130 02-15

REFRACTIVE INDEX OF RARE EARTH OXIDIZED METAL COMPOUNDS IN GLASS N64-13586 05-23

REFRACTIVE INDICES FOR HYDROMAGNETIC WAVE PROPAGATION IN EARTH UPPER ATMOSPHERE
AFCRL-64-228 N64-16978 09-12

ABSOLUTE INTENSITIES AND MEAN REFRACTIVE INDICES FROM INFRARED DISPERSION DATA
AFCRL-64-217 N64-18912 11-23

RADAR PHOTOGRAPHS OF GROUND CLUSTER PATTERNS FOR REFRACTIVITY PROFILES
SCI. REPT.-63-327 N64-18998 11-08

INTERFEROMETRIC MEASUREMENT OF INDEX OF REFRACTION OF CRYSTALLINE MATERIALS
AFCRL-64-175 N64-20088 13-15

METHOD FOR MEASURING REFRACTIVE INDEX OF THIN ABSORBING LAYER ON ABSORBING BASE
AFCRL-63-918 N64-20449 13-23

FORMULAS FOR TRANSMITTED COMPONENT OF PILE-OF-PLATES POLARIZER IN TERMS OF ANGLE OF INCIDENCE,

INDEX OF REFRACTION, & NUMBER OF PLATES
NASA-CR-55526 N64-20735 13-29

DIFFERENTIAL EQUATIONS FOR ENERGY DENSITY AND AMPLITUDE VARIATION IN SPACE CURVE IN MEDIUM OF CHANGING REFRACTIVE INDICES
DAMP-TM-63-04 N64-22331 15-23

TWINKLING OF STARS AND DETERMINATION OF ATMOSPHERIC INDEX OF REFRACTION
N64-23461 16-12

SPECTROMETRICAL STUDIES OF CADMIUM SULFIDE CRYSTAL OPTICAL MODES AND REFRACTIVE INDICES
ML-1108 N64-25590 17-07

REFRACTIVE INDEX, VACUUM COATING, AND CRYSTAL GROWTH OF LEAD CHLORIDE, ZINC TELLURIDE, AND LITHIUM FLUORIDE FILMS
AD-600264 N64-26622 18-25

CREEPING WAVE CONTRIBUTION TO MONOSTATIC RADAR SCATTERING CROSS SECTION FROM HOMOGENEOUS SPHERE AS FUNCTION OF INDEX OF REFRACTION
REPT.-64SD702 N64-27608 19-08

SECOND ORDER EFFECTS IN HIGH FREQUENCY TRANSIONOSPHERIC PROPAGATION - RAY PATH BENDING, NONLINEAR REFRACTIVE INDEX, AND MAGNETOIONIC MODE SPLITTING
NASA-CR-58797 N64-30523 22-08

CZOCHRALSKI APPARATUS, RUBY CRYSTALS, CRYSTAL EVALUATION, REFRACTIVE INDEX VARIATION, AND ETCHING OF DISLOCATIONS
AD-443460 N64-30778 22-25

REFRACTIVE INDEX VARIATIONS IN RUBY - BEAM DIVERGENCE AND INTERFEROMETRY N64-30779 22-25

REFRACTOMETER
X-RAY AND REFLECTANCE REFRACTOMETER AND OTHER INSTRUMENTS USED IN PROPELLANT PROCESSING FOR POLARIS PROPULSION SYSTEM
REPT.-0178-07M-10 N64-26642 18-26

REFRACTORY ALLOY
PRODUCTION OF REFRACTORY METALS AND COMPOUNDS, HARD ALLOYS, AND FERROUS AND NONFERROUS METALS BY HOT PRESSING POWDERS
JPRS-17790 N64-10633 01-17

EXPERIMENTS WITH TUNGSTEN, MOLYBDENUM, & ALLOYS OF REFRACTORY METALS
JPRS-17955 N64-11014 02-01

DEVELOPMENT OF REFRACTORY METAL-BASE ALLOYS FOR HIGH-TEMPERATURE REACTOR APPLICATIONS
NMI-1258 N64-11287 02-18

THERMAL PROPERTIES OF REFRACTORY MATERIALS - BORON CARBIDE, NIOBIUM, TANTALUM, AND MOLYBDENUM ALLOYS, AND ZIRCONIUM NITRIDE
ASD-TDR-63-597 N64-11471 03-13

METALS & THEIR ALLOYS AND COATINGS FOR REFRACTORY METALS - DEFENSE APPLICATION
DMIC MEMO-183 N64-12249 03-18

CASTING OF REFRACTORY MOLYBDENUM AND TUNGSTEN BASE ALLOYS INTO SHEET MATERIALS
AD-422106 N64-12377 03-33

CASTING, PRODUCTION, AND ZONE REFINING OF HIGH TEMPERATURE REFRACTORY METAL ALLOYS
JPRS-22336 N64-12445 04-01

METALLURGY OF REFRACTORY ALLOY POWDERS
N64-12893 04-18

CARBIDE HARD ALLOYS - COMPOSITION, STRUCTURE, AND TECHNOLOGICAL METHODS OF PRODUCTION - REFRACTORY POWDER METALLURGY
JPRS-22600 N64-12902 04-19

EVALUATION OF REFRACTORY METAL ALLOYS FOR ALKALI METAL SPACE ELECTRIC POWER SYSTEMS
NASA-CR-52347 N64-13012 04-18

TENSILE STRENGTH AT HIGH TEMPERATURE AND PHASE IDENTIFICATION FOR TANTALUM-TUNGSTEN-HAFNIUM-CARBON ALLOY SHEETS
WANL-PR-M-007 N64-14639 06-18

PRACTICAL TECHNIQUES FOR APPLYING PROTECTIVE COATINGS TO REFRACTORY METAL ALLOYS
PF-63-10 N64-14793 06-18

ULTRASONIC WELDING REFRACTORY METALS AND ALLOYS WITH POWER-FORCE PROGRAMMING
AD-427997 N64-14811 06-17

COATED REFRACTORY METAL ALLOY FOILS FOR AEROSPACE APPLICATIONS
RDR-1325-6 N64-15597 07-18

EXOTHERMIC BRAZING OF REFRACTORY ALLOYS
AD-432137 N64-16840 08-17

CREEP-RUPTURE TESTS OF REFRACTORY METALS AND ALLOYS IN HYDROGEN AND ARGON ATMOSPHERES
N64-16996 09-18

OXIDATION-RESISTANT COATINGS FOR REFRACTORY METALS AND ALLOYS N64-17216 09-18

DURABILITY, CREEP, AND THERMAL FATIGUE OF HEAT RESISTANT & REFRACTORY MATERIALS SUCH AS CERMETS & ALLOYS
JPRS-24166 N64-18296 10-18

ELECTRON BEAM MICROANALYSIS OF REFRACTORY ALLOYS TO DETERMINE CONCENTRATION GRADIENTS IN BINARY DIFFUSION COUPLES
ASD-TDR-62-7, PT. 2 N64-18892 11-07

ELECTROFORMING REFRACTORY METAL ALLOYS
ERR-FW-217 N64-18948 11-17

MECHANICAL PROPERTIES OF REFRACTORY METALS AND ALLOYS - RADIATION EFFECTS
ORNL-3593 N64-19037 11-18

CORROSION TEST LOOPS FOR EVALUATING REFRACTORY ALLOYS FOR USE IN SPACE ELECTRIC POWER SUPPLY SYSTEMS
NASA-CR-54008 N64-19222 11-18

WELDABILITY AND THERMOSTABILITY OF REFRACTORY ALLOYS
NASA-CR-56136 N64-20725 13-18

DESIGN REQUIREMENT FOR COATED REFRACTORY ALLOYS FOR DYNA-SOAR SPACE GLIDER
D2-81113-1 N64-22431 15-18

QUALITY CONTROL OF PROTECTIVE EMITTANCE COATINGS FOR REFRACTORY ALLOYS ON X-20A AIRCRAFT
D2-81110 N64-22451 15-18

DIFFUSION BONDING OF REFRACTORY METAL ALLOYS
RDR-1322-7 N64-23925 16-18

CREEP TEST DATA ON REFRACTORY ALLOYS AT HIGH TEMPERATURES FOR SPACE ELECTRIC POWER SYSTEMS
NASA-CR-54048 N64-23934 16-18

CORROSION TEST LOOP FOR EVALUATION OF REFRACTORY ALLOYS IN BOILING POTASSIUM ENVIRONMENT
NASA-CR-54081 N64-25005 17-18

METALLURGY AND PHYSICAL PROPERTIES OF HEAT RESISTANT REFRACTORY ALLOYS
FTD-MT-63-206 N64-26093 18-18

FABRICATION, CREEP-RUPTURE TESTS, AND RADIATION EFFECTS ON REFRACTORY METALS AND ALLOYS FOR HIGH TEMPERATURE REACTOR COMPONENTS
GEMP-37A N64-26534 18-18

HIGH TEMPERATURE OXIDATION RESISTANT PROTECTIVE COATINGS FOR REFRACTORY ALLOYS, COMPOSITE MATERIAL DEVELOPMENT, AND THERMAL RADIATION MEASUREMENT
N64-27025 19-18

COATED REFRACTORY ALLOYS FOR X-20 AIRCRAFT
N64-27029 19-19

OXIDATION-RESISTANT PROTECTIVE COATINGS FOR REFRACTORY ALLOYS N64-27030 19-18

HIGH TEMPERATURE MATERIALS - EVALUATION OF COATED REFRACTORY ALLOYS USING ARC-PLASMA-JET N64-27031 19-19

SCIENCE AND TECHNOLOGY OF TUNGSTEN, TANTALUM, MOLYBDENUM, NIOBIUM, AND THEIR ALLOYS - REFRACTORY ALLOY CONFERENCE
AGARDOGRAPH-82 N64-27576 19-18

STRENGTH AND HARDNESS OF REFRACTORY ALLOYS OF NIOBIUM, TANTALUM, MOLYBDENUM, AND TUNGSTEN METALS N64-27578 19-18

MOLYBDENUM, NIOBIUM, TANTALUM, AND TUNGSTEN BASE ALLOYS AT ELEVATED TEMPERATURE - REFRACTORY ALLOY THEORETICAL THERMOCHEMICAL CORROSION STUDIES N64-27580 19-18

FABRICATION TESTS OF MOLYBDENUM, NIOBIUM, TUNGSTEN, TANTALUM - REFRACTORY ALLOYS N64-27593 19-18

POWDER METALLURGY CONSOLIDATION OF TUNGSTEN, MOLYBDENUM, NIOBIUM, AND TANTALUM ALLOYS- REFRACTORY ALLOYS N64-27595 19-18

FORMING OF REFRACTORY METAL AND ALLOY SHEET FOR HIGH TEMPERATURE STRUCTURAL DESIGNS N64-27600 19-18

HIGH TEMPERATURE MATERIALS EVALUATION - COATINGS FOR REFRACTORY ALLOYS AND ARC-PLASMA-JET
ML-TDR-64-62 N64-30110 21-17

PROTECTIVE COATINGS FOR REFRACTORY ALLOYS EXPOSED TO THERMAL ENVIRONMENTS
ML-TDR-64-70 N64-30111 21-18

STRENGTH AND WORKABILITY OF HIGH TEMPERATURE NICKEL-BASE, COBALT-BASE, AND COBALT-REFRACTORY METAL SUPERALLOYS
NASA-TN-D-2495 N64-31001 22-18

PREPARATION AND PROPERTIES OF HIGH-MELTING CARBIDE ALLOYS
NASA-TT-F-9064 N64-31337 22-18

WELDING OF REFRACTORY METAL ALLOYS FOR USE IN ALKALI-METAL SPACE ELECTRIC POWER SYSTEMS
NASA-CR-54166 N64-31455 23-18

REFRACTORY NICKEL-CHROMIUM BASED CASTING ALLOYS N64-31514 23-18

PRODUCTION OF TURBINE BLADES BY INVESTMENT CASTING FROM REFRACTORY ALLOYS N64-31516 23-17

COLUMBIUM ALLOY THREADED FASTENERS WITH OXIDATION RESISTANT METALLIC COATINGS
PR-3 N64-32655 23-17

SPECIMEN CONFIGURATION EFFECTS ON MECHANICAL PROPERTY VALUES FOR SUPERALLOY AND COATED REFRACTORY ALLOYS
SM-44631 N64-32820 24-18

POWDER METALLURGY OF TUNGSTEN AND TUNGSTEN-BASE REFRACTORY ALLOYS N64-33499 24-18

VACUUM CHAMBER DESIGN FOR ELEVATED TEMPERATURE FATIGUE TESTING OF REFRACTORY METAL ALLOYS
NASA-CR-54203 N64-34000 24-18

REFRACTORY MATERIAL
SA CARBIDE
SA CERAMICS
SA CERMET
SA CLAY
SA CORUNDUM
SA GLASS
HEAT RESISTANT COMPOUNDS OF TRANSITION ELEMENTS - LATTICE STRUCTURE, X RAY SPECTROSCOPY, PHYSICAL PROPERTIES OF REFRACTORY MATERIAL
JPRS-17446 N64-10669 02-01

QUALITATIVE AND QUANTITATIVE INVESTIGATIONS OF BRITTLENESS OF REFRACTORY METALLOID COMPOUNDS N64-10673 02-13

EMITTANCE MEASUREMENT FOR REFRACTORY MATERIALS TO 5000 DEG F - TEMPERATURE & STRUCTURE DEPENDENCE N64-10968 02-13

PLASTICIZER, EXTRUSION, AND SINTERING FOR FORMING RODS FROM REFRACTORY POWDERS N64-11012 02-17

BIBLIOGRAPHY - REFRACTORY INORGANIC COATINGS FOR TEMPERATURES OVER 2500-DEG C
NASA-TM-X-51209 N64-11338 02-33

REFRACTORY-CERAMIC PROPERTY DATA FOR DESIGNERS OF AEROSPACE STRUCTURES
RTD-TDR-63-4102 N64-12269 03-19

REFRACTORY ROCKET LINER MATERIALS - SUMMARY OF THEORETICAL THERMOCHEMICAL CORROSION STUDIES
U-2384 N64-12812 04-19

FORMATION OF REFRACTORY FIBERS OR WHISKERS BY VAPOR PHASE GROWTH - ALUMINUM HALIDE OXIDATION, ALUMINUM OXIDE REDUCTION, AND RECRYSTALLIZATION
AMRA-CR-63-03/1 N64-13037 04-18

METALLIC & CERAMIC REFRACTORY COATING FOR THERMAL PROTECTION OF TITANIUM
AMRA-TR-63-12 N64-13850 05-19

NOZZLE THROAT REFRACTORY MATERIAL REACTION WITH SOLID AND GASEOUS COMBUSTION PRODUCTS
U-2403 N64-13986 05-27

NEW TECHNIQUES FOR MEASUREMENT OF THERMAL DIFFUSIVITY & THERMOCONDUCTIVITY OF REFRACTORY MATERIALS AT HIGH TEMPERATURE
WADD-TR-60-581, PT. 4 N64-14992 06-13

RADIATIVE HEAT TRANSFER IN LOW DENSITY CERAMICS WITH BARRIER PHASE IN REFRACTORY STRUCTURE - THERMAL INSULATING MATERIAL
NASA-CR-55559 N64-15533 07-19

CERMETS - REFRACTORY STRUCTURAL MATERIALS
FTD-TT-62-1264/1 N64-16344 08-19

THERMAL SHOCK EVALUATION OF REFRACTORY MATERIALS AS ROCKET NOZZLE INSERTS
NRL-6005 N64-16589 08-27

THERMAL SHOCK EVALUATION OF REFRACTORY MATERIALS AS ROCKET NOZZLE INSERTS N64-16590 08-27

THERMODYNAMICS OF INTERSTITIAL SOLID SOLUTIONS AND REFRACTIVE COMPOUNDS - CARBIDES, OXIDES, AND NITRATES
ASD-TR-61-445, PT. 3 N64-16801 08-25

MICROWAVE FREQUENCY DIELECTRIC MEASUREMENTS OF NONMETALLIC INORGANIC REFRACTORY MATERIALS FOR RADOME APPLICATIONS AT ELEVATED TEMPERATURES
AD-432141 N64-16846 08-19

SURFACE DIFFUSION SATURATION OF METALS AND REFRACTORY SURFACE COATINGS
JPRS-24165 N64-18401 10-18

THERMODYNAMIC STUDIES OF FLUORIDES AND REFRACTORY COMPOUNDS - INORGANIC CHEMISTRY N64-18810 11-13

DATA REVIEW OF HEAVY METAL REFRACTORY COMPOUNDS N64-18823 11-19

VAPOR PRESSURE AND SPECTRAL EMISSIVITIES OF REFRACTORY MATERIALS
WADD-TR-60-646, PT. 3 VOL. 2 N64-19660 12-19

ANNOTATED BIBLIOGRAPHY ON THERMODYNAMICS OF BERYLLIUM AND ITS REFRACTORY COMPOUNDS - OXIDES, CARBIDES, & NITRIDES
SB-63-16 N64-20893 14-13

REFRACTORY-CERAMIC PROPERTIES OF NONMETALLIC INORGANIC CRYSTALLINE MATERIALS FOR SPACE APPLICATIONS
RTD-TDR-63-4102, SUPPL. 1 N64-22314 15-19

PRODUCTION PROBLEMS OF GRAPHITE CONTAINING REFRACTORY MATERIALS
FTD-TT-63-174/1&2 N64-22344 15-17

SINTERING, QUALITY CONTROL, AND CRYSTAL STRUCTURE OF REFRACTORY MATERIALS
FTD-TT-63-323/1&4 N64-22347 15-07

GLASS, CERAMICS, AND REFRACTORY MATERIALS
FTD-TT-63-688/1&2&4 N64-23184 16-19

SYNTHESIS OF LEAD-FREE HIGH REFRACTING GLASS
N64-23186 16-19

THERMAL RADIATION CHARACTERISTICS OF REFRACTORY OXIDES UNDER NONISOTHERMAL CONDITIONS
ASD-TDR-62-719 N64-24182 16-13

REFRACTORY MATERIALS FOR COATINGS AND FASTENERS AND COATED FASTENER OF TITANIUM-ZIRCONIUM-MOLYBDENUM SYSTEM ALLOY N64-25045 17-17

REFRACTORY COMPOSITES
AD-601266 N64-25408 17-17

REFRACTORY MATERIALS FOR SPACE APPLICATION
N64-25410 17-17

REFRACTORY COMPOSITES FOR SOLID PROPELLANT ROCKET MOTOR APPLICATION N64-25412 17-19

HIGH TEMPERATURE REACTIONS IN REFRACTORY MATERIALS
N64-25415 17-18

BRAZED REFRACTORY METAL HONEYCOMB SANDWICH PANELS, RESIN-IMPREGNATED POROUS CERAMICS, AND ABLATIVE CERAMIC COMPOSITE STRUCTURES N64-25416 17-17

REFRACTORY MATERIAL - PLASMA MATERIAL DEPOSITION
N64-25420 17-17

SOLID STATE DEVICE, LASERS, REFRACTORY CRYSTALS, MOLECULAR RESONANCE, AND STRUCTURAL BAND RESEARCH
ESD-TDR-64-47 N64-26264 18-25

CAVITATION DAMAGE TESTING OF REFRACTORY MATERIALS IN LIQUID SODIUM AT HIGH TEMPERATURE
NASA-CR-56724 N64-26353 18-25

POWDER METALLURGY - CERMET MATERIALS, IRON-BRASS COMPOSITES AND REFRACTORY MATERIALS
FTD-TT-62-1473/1&2&4 N64-26734 18-18

REFRACTORY MATERIALS AND COMPOSITES - CONFERENCE
DMIC-MEMO-192 N64-26913 18-19

REFRACTORY MATERIALS - CONFERENCE
RTD-TDR-63-4131, VOL. 1 N64-27005 19-17

INORGANIC REFRACTORY COMPOSITES FOR USE IN HIGH TEMPERATURE ENVIRONMENTS
RTD-TDR-63-4131, VOL. 2 N64-27020 19-01

MECHANICAL PROPERTIES OF REFRACTORY INORGANIC NONMETALLIC MATERIALS
ASD-TDR-63-431, PT. III N64-28573 20-25

REFRACTORY OXIDE MATERIALS FOR USE IN HIGH TEMPERATURE PEBBLE-BED WIND TUNNEL HEAT EXCHANGERS
NASA-TN-D-2493 N64-30102 21-17

REFRACTORY MATERIAL LINERS FOR EXTRUSION BILLET CONTAINERS
ML-TDR-64-194 N64-30117 21-17

COMPATIBILITY OF MAGNETOPLASMADYNAMIC GENERATOR REFRACTORY MATERIALS WITH CESIUM VAPOR
N64-30439 22-17

HIGH TEMPERATURE RESISTANT METAL REINFORCED REFRACTORY CERAMIC COATING FOR INSULATION OF SUBSTRUCTURES
ML-TDR-64-81 N64-30928 22-17

PROPERTIES OF SEVERAL CARBIDE AND NITRIDE REFRACTORIES
LA-2942 N64-31060 22-18

REFRACTORY MATERIALS FOR HIGH TEMPERATURE OXIDATION-RESISTANT GRAPHITE COATINGS
WADD-TR-61-72, VOL. XXXIV N64-31307 22-17

THERMAL STABILITY OF REFRACTORY AND CERAMIC MATERIALS IN ATOMIC REACTORS, ROCKETS, AND JET ENGINES
NASA-TT-F-9065 N64-31336 22-19

RAW MATERIALS FOR REFRACTORY OXIDE CERAMICS
ML-TDR-64-110 N64-31969 23-17

ROCKET NOZZLE MATERIALS PROBLEM - REFRACTORY MATERIAL, PROTECTIVE COATINGS, AND COOLING SYSTEM
AMRA-MS-63-06 N64-32692 24-17

REFRACTORY MATERIALS DEVELOPMENT FOR ROCKET ENGINE APPLICATIONS N64-32698 24-17

MATERIALS SCIENCE - BRITTLENESS, FATIGUE, AND FRACTURE MECHANICS - GLASS-REINFORCED PLASTIC, HIGH STRENGTH METALS AND ALLOYS, AND REFRACTORY MATERIALS N64-32769 24-17

REFRACTORY MATERIAL RESEARCH FOR NUCLEAR FUEL SYSTEMS
GEMP-40A N64-32804 24-18

SCALE UP & THERMAL TESTING OF ZIRCONIUM-BORIDE-MOLYBDENUM-SILICIDE REFRACTORY CERAMIC COMPOSITE FOR LEADING EDGES OF HYPERSONIC VEHICLES
REPT.-2178-900204 N64-33655 24-34

REFRACTORY METAL
SA REFRACTORY ALLOY
PRODUCTION OF REFRACTORY METALS AND COMPOUNDS, HARD ALLOYS, AND FERROUS AND NONFERROUS METALS BY HOT PRESSING POWDERS
JPRS-17790 N64-10633 01-17

ELECTROLYSIS OF FLUORINE COMPOUND-BEARING MOLTEN MEDIA FOR PRODUCTION OF REFRACTORY RARE METALS
JPRS-17729 N64-10715 02-18

TEMPERATURE DEPENDENCE OF HEMISPHERICAL EMITTANCE OF METAL AND ALLOY STRIPS IN 100- TO 1200-DEG C RANGE USING BLACKBODY VACUUM CHAMBER
N64-10961 02-13

PRODUCING NITRIDES OF REFRACTORY METALS - NIOBIUM, TITANIUM, TANTALUM, AND CHROMIUM
N64-11013 02-17

EXPERIMENTS WITH TUNGSTEN, MOLYBDENUM, & ALLOYS OF REFRACTORY METALS
JPRS-17955 N64-11014 02-01

RADIATION EFFECT IN BERYLLIUM OXIDE, GAS DIFFUSION IN UNFUELED CERAMICS, CERAMIC FUEL CONVERSION, AND REFRACTORY-METAL FUEL SYSTEMS
GEMP-28A N64-11291 02-19

PROTECTIVE COATINGS FOR REFRACTORY METALS IN ROCKET ENGINES
NASA-CR-52871 N64-11420 02-17

THERMAL PROPERTIES OF REFRACTORY MATERIALS - BORON CARBIDE, NIOBIUM, TANTALUM, AND MOLYBDENUM ALLOYS, AND ZIRCONIUM NITRIDE
ASD-TDR-63-597 N64-11471 03-13

STRESS-RUPTURE AND CREEP PROPERTIES OF REFRACTORY METALS TO 2800-DEG C AND IN PREPARED ATMOSPHERES
TM-63-4-12 N64-11984 03-18

STRAIN SOFTENING TO IMPROVE REFRACTORY METAL PROPERTIES
AD-425148 N64-12062 03-18

METALS & THEIR ALLOYS AND COATINGS FOR REFRACTORY METALS - DEFENSE APPLICATION
DMIC MEMO-183 N64-12249 03-18

COATED REFRACTORY METAL FOILS
RDR-1329-5 N64-12362 03-18

ZONE ELECTRON BEAM MELTING AND PRODUCTION OF SINGLE CRYSTALS OF REFRACTORY METALS
N64-12447 04-25

ULTRASONIC WELDING EQUIPMENT FOR REFRACTORY METALS - CERAMIC TRANSDUCER AND COUPLING SYSTEMS
ASD-TR-7-888/VI/ N64-12647 04-18

ULTRASONIC WELDING OF REFRACTORY METALS AND ALLOYS
BMPR-6 N64-13592 05-18

ULTRASONIC WELDING EQUIPMENT WITH 25-KILOWATT POWER SOURCE FOR REFRACTORY METALS
ASD-TR-7-888/4/ N64-13833 05-17

FABRICATION HISTORY, MICROSTRUCTURE, AND MECHANICAL PROPERTIES OF REFRACTORY METALS AND ALLOYS
DMIC-186 N64-13970 05-18

PLATING OF REFRACTORY METAL ON VACUUM ROLLING MILL
FTD-MT-63-98/1&2&3&4 N64-14381 06-17

VACUUM ARC MELTING OF EXPERIMENTAL REFRACTORY METALS
RTD-TDR-63-4089 N64-14510 06-17

HIGH AND LOW TEMPERATURE REFRACTORY METAL PRECOOLERS - FORMING, JOINING, TESTING, AND COATING OF METAL FOIL HEAT EXCHANGERS
ER-1245-8 N64-14657 06-13

PRACTICAL TECHNIQUES FOR APPLYING PROTECTIVE COATINGS TO REFRACTORY METAL ALLOYS
PF-63-10 N64-14793 06-18

ULTRASONIC WELDING REFRACTORY METALS AND ALLOYS WITH POWER-FORCE PROGRAMMING
AD-427997 N64-14811 06-17

CHANGE OF ELECTRON WORK FUNCTION DURING COLD WORKING OF MOLYBDENUM & TANTALUM AND HIGH TEMPERATURE DEFORMATION OF REFRACTORY METALS
JPRS-23121 N64-14878 06-17

ELECTRON BEAM FURNACE FOR MELTING AND PURIFYING REACTIVE AND REFRACTORY METALS - METALLURGY
BM-RI-6341 N64-14931 06-18

EFFECT OF TECHNOLOGICAL PROCESSES AND PRODUCTION METHODS ON PROPERTIES OF REFRACTORY METAL CASTINGS
JPRS-23064 N64-15770 07-18

REFRACTORY METAL THERMOCOUPLE FOR LITHIUM COOLED REACTOR
PWAC-422 N64-16000 07-15

QUARTZ LAMP RADIANT HEAT BRAZING OF LARGE REFRACTORY METAL SANDWICH PANEL STRUCTURES FOR AEROSPACE VEHICLES
IR-7-937A/II/ N64-16042 07-17

ULTRASONIC WELDING EQUIPMENT FOR REFRACTORY METALS
ASD-TR-7-888/7/ N64-16340 08-17

CONSTRUCTION OF BRAZED REFRACTORY METAL SANDWICH PANELS
ERR-FW-188 N64-16450 08-17

CORROSION OF REFRACTORY METALS BY LITHIUM
ORNL-3551 N64-16535 08-18

WELDING OF REFRACTORY METALS FOR AEROSPACE APPLICATIONS
IR-5 N64-16958 09-17

CREEP-RUPTURE TESTS OF REFRACTORY METALS AND ALLOYS IN HYDROGEN AND ARGON ATMOSPHERES
N64-16996 09-18

RADIATION EFFECT ON TIME, TEMPERATURE, AND STRESS PROPERTIES OF REFRACTORY METALS AND HIGH TEMPERATURE ALLOYS N64-16997 09-18

FISSION PRODUCT TRANSPORT PROCESSES OF KRYPTON IN REFRACTORY METAL FUEL SYSTEMS N64-17000 09-23

KINETIC & THERMODYNAMIC PROPERTIES OF REFRACTORY METAL BORIDES & NITRIDES
UCRL-7559 N64-17073 09-19

OXIDATION-RESISTANT COATINGS FOR REFRACTORY METALS AND ALLOYS N64-17216 09-18

HEATED THERMIONIC CONVERTER WITH HOT SHELL TO PROTECT MOLYBDENUM REFRACTORY METAL EMITTER FROM OXIDATION N64-17390 09-06

ELECTRON PROJECTION DIODE FOR STUDYING THERMIONIC EMISSION FROM SINGLE CRYSTAL REFRACTORY METAL FILAMENTS - RECRYSTALLIZED MOLYBDENUM DATA
AFCRL-64-234 N64-17449 09-23

ROLLING OF NIOBIUM, TANTALUM, AND TUNGSTEN BASE ALLOY INTO FOIL
AD-434397 N64-18067 10-17

CHEMICAL, PHYSICAL, AND MECHANICAL PROPERTIES OF REFRACTORY METALS COATED WITH OXIDATION-RESISTANT COATING
DMIC-195 N64-18185 10-19

RADIOACTIVE ISOTOPE STUDY OF INFLUENCE OF REFRACTORY METAL ON SELF-DIFFUSION OF IRON IN IRON ALLOYS
FTD-MT-63-40/1&2 N64-18752 11-25

THERMAL STRESS REQUIREMENTS OF MISSILE AND SPACECRAFT INDUSTRIES OF REFRACTORY METALS - TUNGSTEN SHEET
AMC-TR-8-107/1/ N64-18893 11-18

PHYSICAL AND CHEMICAL PROPERTIES OF REFRACTORY METALS
ERR-FW-049A N64-18944 11-18

RADIATION, GAS DIFFUSION, AND FISSION PRODUCT RESEARCH ON BERYLLIUM OXIDE, CERAMICS, AND REFRACTORY METALS
GEMP-34A N64-19016 11-23

MECHANICAL PROPERTIES OF REFRACTORY METALS AND ALLOYS - RADIATION EFFECTS
ORNL-3593 N64-19037 11-18

OXIDATION RESISTANT COATINGS FOR REFRACTORY METALS
AD-437376 N64-19164 11-19

REFRACTORY METALS, INSULATING MATERIALS, AND CESIUM RESISTANT SEALS FOR THERMIONIC CONVERTER
AD-430112 N64-19245 11-06

VANADIUM, NIOBIUM, MOLYBDENUM, AND TUNGSTEN AS OXIDATION-RESISTANT COATINGS FOR REFRACTORY METALS
AD-435100 N64-20287 13-18

MANUFACTURING METHODS AND DESIGN PROCEDURES OF BRAZED REFRACTORY METAL HONEYCOMB SANDWICH PANELS
ASD-TDR-63-767 N64-20361 13-07

STRAIN CHARACTERISTICS OF BERYLLIUM & REFRACTORY METALS
AD-428949 N64-20392 13-18

THERMOELECTRIC POTENTIAL OF REFRACTORY AND LIQUID METALS N64-20479 13-23

OXYGEN DIFFUSION INTO REFRACTORY METALS-
NIOBIUM N64-20806 14-25

STRAIN SOFTENING TO IMPROVE PROPERTIES OF REFRACTORY METALS
AD-434207 N64-22086 15-33

HIGH VELOCITY CO-EXTRUSION METHOD FOR FABRICATING TUNGSTEN CERMET AND REFRACTORY METAL CLADDING
LAMS-3065 N64-22251 15-18

THERMOCONDUCTIVITY OF GRAPHITE AT HIGH TEMPERATURES AND TOTAL EMISSIVITY OF REFRACTORY METALS
ML-TDR-64-59 N64-22553 15-19

NONDESTRUCTIVE TESTING OF CERAMIC AND INTERMETALLIC PROTECTIVE COATINGS FOR REFRACTORY METALS
WADD-TR-61-91 , PT. IV N64-22562 15-17

WORK FUNCTION, AND DESORPTION ENERGY & RATES OF CESIUM COATED REFRACTORY CELLS N64-22985 16-18

QUALITY CONTROL OF TUNGSTEN SHEET PRODUCED BY REFRACTORY SHEET METAL ROLLING

NDW-63-0786D N64-24219 16-18

PREDICTION OF PHYSICAL STRUCTURE OF REFRACTORY METAL ALLOYS AT VARIOUS TEMPERATURES BY CONSTITUTION DIAGRAMS
WADD-TR-60-132, PT. 3 N64-24386 17-18

WELDABILITY AND TEMPERATURE STABILITY STUDIES OF REFRACTORY METAL ALLOYS FOR ALKALI-METAL SPACE ELECTRIC POWER SYSTEMS
NASA-CR-54088 N64-25764 17-18

DEFORMATION CHARACTERISTICS OF BERYLLIUM AND REFRACTORY METALS
QPR-31 N64-25899 18-18

HIGH TEMPERATURE PROTECTIVE COATINGS FOR REFRACTORY METALS N64-27009 19-17

HIGH TEMPERATURE PROTECTIVE COATING FOR REFRACTORY METALS - TUNGSTEN N64-27010 19-17

PROTECTIVE COATINGS FOR REFRACTORY METALS - MOLYBDENUM, NIOBIUM & TANTALUM ALLOYS N64-27011 19-17

HIGH TEMPERATURE PROTECTIVE COATINGS FOR TANTALUM AND NIOBIUM ALLOYS - REFRACTORY METALS N64-27012 19-17

PROTECTIVE COATING FOR REFRACTORY METAL FOILS N64-27013 19-17

SILICIDE PROTECTIVE COATINGS FOR REFRACTORY METALS N64-27014 19-17

REFRACTORY METAL PROTECTIVE COATING SYSTEMS FOR HYPERSONIC GLIDER REENTRY VEHICLE N64-27017 19-17

REFRACTORY METAL STRUCTURES AND COOLING FOR HYPERSONIC REENTRY VEHICLES N64-27026 19-18

FLAME AND PLASMA SPRAYING METHODS FOR COATING REFRACTORY METAL SHEET N64-27027 19-19

EVALUATION PROCEDURES FOR COATED REFRACTORY METAL SHEET N64-27028 19-18

VACUUM DRY BOX FOR CAVITATION DAMAGE TESTING OF LIQUID REFRACTORY METALS
NASA-CR-56843 N64-27278 19-18

INTERACTION OF INTERSTITIAL ATOMS AND SUBSTRUCTURE IN REFRACTORY ELEMENTS - CRYSTAL STRUCTURE DEFECT N64-27579 19-18

METALLURGICAL DATA OF REFRACTORY ELEMENTS N64-27581 19-18

SCIENTIFIC AND ENGINEERING PROPERTIES OF TUNGSTEN, TANTALUM, NIOBIUM, AND MOLYBDENUM - REFRACTORY ELEMENTS N64-27582 19-18

TRACE ELEMENT EFFECT ON MECHANICAL PROPERTIES OF REFRACTORY METALS N64-27583 19-18

THERMOCHEMISTRY OF REFRACTORY ELEMENTS - CHEMICAL REACTIONS APPLIED TO ENGINEERING STRUCTURES N64-27584 19-18

THERMOPHYSICAL PROPERTIES OF TUNGSTEN, NIOBIUM, MOLYBDENUM, AND TANTALUM - REFRACTORY ELEMENTS N64-27585 19-18

EXPLOSIVE SHOCK WAVES EFFECT ON REFRACTORY ELEMENT PROPERTIES - HIGH ENERGY RATE-FORMING N64-27586 19-18

CORROSION MECHANISMS IN REFRACTORY METAL-ALKALI METAL SYSTEMS N64-27587 19-18

ALLOYING, COATING, AND CORROSION RESISTANCE OF REFRACTORY ELEMENTS AT ELEVATED TEMPERATURES N64-27589 19-18

REFRACTORY ELEMENT AS PROTECTIVE COATING FOR EARTH REENTRY VEHICLE N64-27590 19-17

SPECTROGRAPHIC METHODS FOR IMPURITY ANALYSIS OF REFRACTORY ELEMENTS N64-27591 19-07

IMPURITY ANALYSIS OF REFRACTORY ELEMENTS N64-27592 19-07

TENSILE, STRESS RUPTURE, CREEP, SHEAR, AND FATIGUE TESTING OF REFRACTORY ELEMENTS N64-27594 19-18

FLAT ROLLING OF REFRACTORY METAL - METALLURGY N64-27596 19-18

METALLURGICAL TECHNOLOGY OF REFRACTORY ELEMENT MILLING N64-27597 19-18

CLOSED DIE FORGING, RING ROLLING, SHEAR FORMING, TUBE AND SHAPE EXTRUSIONS, AND CENTRIFUGAL CASTING OF REFRACTORY ELEMENTS N64-27598 19-18

MACHINING AND AEROSPACE TECHNOLOGICAL APPLICATION OF REFRACTORY ELEMENTS N64-27599 19-18

METALLURGICAL JOINING OF REFRACTORY ELEMENTS FOR POWER PLANTS AND NOZZLE THROAT OF ROCKETS N64-27601 19-18

METAL FORMING AND HEAT RESISTANCE STUDY OF REFRACTORY METALS FOR ROCKET ENGINE APPLICATIONS N64-27602 19-18

INTERNAL CONVERSION CERAMIC FUEL ELEMENTS, FISSION GAS DIFFUSION IN CERAMICS, FISSION PRODUCTS IN REFRACTORY-METAL FUEL SYSTEMS, AND RADIATION IN BERYLLIUM OXIDE
GEMP-38 A N64-28251 20-18

CESIUM MIGRATION ON REFRACTORY METALS USING FIELD EMISSION MICROSCOPY
AFCRL-64-328 N64-28567 20-23

REFRACTORY METALS FOR THERMAL PROTECTION SYSTEMS
NASA-RP-302 N64-28854 20-18

CONTAMINATION OF REFRACTORY METALS AND ALLOYS BY RESIDUAL GASES IN HIGH VACUUM SYSTEMS
ORNL-3674 N64-28983 20-18

EFFECT OF CASTING MOLD MATERIAL ON MECHANICAL PROPERTIES OF REFRACTORY METALS N64-29040 21-18

ULTRASONIC WELDING EQUIPMENT FOR JOINING REFRACTORY METALS AND SUPERALLOYS
RR-64-53 N64-29298 21-17

RELATIONSHIP BETWEEN THERMIONIC WORK FUNCTION OF REFRACTORY INTERMETALLIC COMPOUNDS AND THEIR ELECTRONIC AND CRYSTAL STRUCTURES
NASA-CR-58564 N64-29690 21-25

THIN FILM TRANSMISSION ELECTRON MICROSCOPY APPLIED TO REFRACTORY METAL PROCESSING
R-5776-1 N64-30813 22-18

STRAIN SOFTENING OF REFRACTORY METALS - FLEXURE PROCESS FOR LOWERING TRANSITION TEMPERATURE
QPR-2 N64-30876 22-18

BEHAVIOR OF THIN CESIUM LAYERS ON REFRACTORY METAL SUBSTRATES FOR STUDY OF VOLTAGE BREAKDOWN ACROSS VACUUM GAPS BETWEEN ALKALI-COATED ELECTRODES
NASA-CR-54106 N64-31012 22-25

WELDING OF REFRACTORY METALS
AD-421905 N64-31258 22-18

RHENIUM EFFECT ON STRUCTURAL PROPERTIES OF GROUP VI-A REFRACTORY METALS
AD-421178 N64-31686 23-18

ELECTRICAL BEHAVIOR OF CHARGE AND MASS TRANSPORT MECHANISMS IN REFRACTORY METAL OXIDES
ARL-64-122 N64-32627 23-25

FABRICATION OF REFRACTORY METALS AND ALLOYS - METAL FORMING, DEPOSITION, COLD WORKING, WELDING, AND MACHINING TECHNIQUES N64-32760 24-17

CORROSION OF METALS IN MERCURY VAPOR AT HIGH

TEMPERATURES - STAINLESS STEELS, MARTENSITIC CHROMIUM STEELS, COBALT & NICKEL ALLOYS AND REFRACTORY METALS
NASA-TM-X-54787 N64-33681 24-18

VACUUM DIFFUSION WELDING OF REFRACTORY METALS AND ELECTROSLAG WELDING OF HIGH ALLOY STEEL
JPRS-27115 N64-33850 24-17

KRYPTONATED METALS FOR STUDY OF HIGH TEMPERATURE OXIDATION KINETICS OF REFRACTORY METALS
AD-450355 N64-33972 24-18

VACUUM CHAMBER DESIGN FOR ELEVATED TEMPERATURE FATIGUE TESTING OF REFRACTORY METAL ALLOYS
NASA-CR-54203 N64-34000 24-18

REFRACTORY PERIOD
S REACTION TIME
S TIME FACTOR

REFRIGERANT
S COOLANT

REFRIGERATING EQUIPMENT
ANNOTATED BIBLIOGRAPHY - MECHANICS OF HEAT PUMPS AND ABSORPTION REFRIGERATION FOR SPACECRAFT
SB-62-16 N64-13327 04-13

DIRECT CONTACT HEAT EXCHANGERS FOR EVAPORATORS AND CONDENSERS IN REFRIGERATING EQUIPMENT
RSIC-162 N64-20323 13-13

LEAD SELENIDE DETECTOR AND REFRIGERATION ASSEMBLY FOR MARINER C PROGRAM
NASA-CR-56173 N64-20739 13-15

LIQUID HELIUM REFRIGERATION SYSTEM FOR MASER COOLING SYSTEM
NASA-CR-56168 N64-20740 13-06

ROLE OF CRYOGENICS IN MECHANICAL ENGINEERING - DESIGN AND TECHNOLOGY OF REFRIGERATION SYSTEMS
N64-26014 18-13

REFRIGERATOR
PELTIER REFRIGERATORS AS TRANSDUCERS FOR PSYCHOPHYSICAL STUDY OF TEMPERATURE SENSE
N64-11259 02-16

MINIATURE NONRECIPROCATING CLOSED CYCLE REFRIGERATOR
SS-960 N64-14668 06-06

THERMOELECTRIC REFRIGERATOR FOR MICROPAC COMPUTER MEMORY STORAGE UNIT N64-19381 12-06

REFUELING
AIRCRAFT REFUELING IN AIR
FTD-TT-62-1699/1&2 N64-22629 15-04

CHECKOUT AND FLIGHT TEST OF AIRBORNE REFUELING DROGUE
ST31-53R-64 N64-26020 18-26

ELECTROSTATIC CHARGING AND DISCHARGING PROCESSES DURING AIRCRAFT REFUELING N64-30372 22-17

LUNAR PROPELLANT MANUFACTURE AND REFUELING
REPT.-64SD237 N64-33866 24-10

REGENERATION
SA REGENERATIVE FUEL CELL
ELECTRON MICROSCOPE INVESTIGATION OF CARTILAGE CELL DIFFERENTIATION IN REGENERATING BONE
N64-12497 04-16

DYNAMICS OF CIRCUIT WITH VARIABLE CAPACITANCE AT LOW REGENERATION LEVEL - EXACT & ASYMPTOTIC FORMULAS PRESENTED AS CURVES N64-12739 04-09

REGENERATION OF RAT LIVER AFTER LOCAL X-RAY IRRADIATION N64-12796 04-16

HISTOLOGICAL CORTICAL NEURON REGENERATION VERSUS CORTICAL ELEMENT DISPLACEMENT AFTER BILATERAL OCCIPITAL LOBECTOMY - NEUROLOGY
JPRS-22690 N64-13086 04-16

REPARATIVE REGENERATION OF CUTANEOUS & INTESTINAL EPITHELIA AT ANAL JUNCTION AFTER THERMAL INJURY DUE TO X-RAY IRRADIATION OF RATS
N64-14252 06-16

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON DIOXIDE
ANRL-TDR-64-35 N64-27432 19-16

REGENERATIVE CYCLE
REGENERATION OF CARBOHYDRATES IN CLOSED CIRCUIT RESPIRATORY SYSTEM
NASA-CR-52972 N64-11801 03-16

REGENERATIVE FUEL CELL
HYDROGEN-OXYGEN ELECTROLYTIC REGENERATIVE FUEL CELLS
NASA-CR-55059 N64-11809 03-06

HYDROGEN-OXYGEN 75-WATT ELECTROLYTIC REGENERATIVE FUEL CELL FOR ORBITAL APPLICATIONS
NASA-CR-55650 N64-15534 07-06

ELECTRIC CELL RESEARCH - HYDROGEN ELECTRODES, SILVER OXIDE ELECTRODES, AND OXYGEN ELECTRODES FOR REGENERATIVE FUEL CELLS
NASA-CR-55664 N64-15536 07-06

CHARGE RETENTION AND CYCLE LIFE OF REGENERATIVE FUEL CELL
NASA-CR-55632 N64-15551 07-06

MATRIX, SEAL, & ELECTROLYTE DEVELOPMENT FOR THERMALLY REGENERATIVE LIQUID METAL FUEL CELL FOR CONVERSION OF HEAT DIRECTLY INTO ELECTRIC ENERGY
EDR-3344 N64-15624 07-06

RESISTIVE CELL STUDIES, COARSE-GRAIN-COMPOSITE STRENGTH & CONDUCTIVITY, FINE-GRAIN-COMPOSITE PREPARATION, AND DESIGN OF SMALL LIQUID METAL CELL
N64-15625 07-09

CHARGE RETENTION TEST, POLARIZATION STUDIES, AND FABRICATION OF REGENERATIVE FUEL CELL
NASA-CR-55639 N64-15899 07-06

ELECTROLYTE STORAGE AND REGENERATIVE FUEL CELL DEVELOPMENT
NASA-CR-53068 N64-15966 07-06

ELECTRODE STUDY OF REGENERATIVE FUEL CELL
NASA-CR-53011 N64-15967 07-06

HYDROGEN-SILVER OXIDE REGENERATIVE FUEL CELLS
NASA-CR-55849 N64-16766 08-06

HYDROGEN-SILVER OXIDE REGENERATIVE FUEL CELLS
NASA-CR-55848 N64-16767 08-06

REGENERATIVE HYDROGEN-OXYGEN FUEL CELL
NASA-CR-55847 N64-17682 09-06

LIQUID METAL REGENERATIVE FUEL CELL AND CONDUCTIVITY STUDIES ON CERAMICS
EDR-3673 N64-18073 10-06

LIQUID METAL REGENERATIVE FUEL CELL - CERAMIC MATERIALS
EDR-3547 N64-18074 10-06

LITHIUM HYDRIDE AND BIMETALLIC REGENERATIVE CELLS
N64-19836 12-06

LIQUID MAGNESIUM REGENERATIVE FUEL CELL
EDR-3740 N64-20167 13-06

MOLTEN OR FUSED SALTS EVALUATED AS THERMOELECTRIC MATERIAL FOR REGENERATIVE FUEL CELL
NASA-TN-D-2440 N64-27361 19-06

CONSTRUCTION & TEST OF HYDROGEN-OXYGEN ELECTROLYTIC REGENERATIVE FUEL CELLS
NASA-CR-58583 N64-29521 21-06

THERMAL ENERGY CONVERSION TO ELECTRICITY - ELECTROTHERMALLY REGENERATIVE TRANSDUCER DEVICE
AD-403290 N64-30900 22-06

REGENERATOR
ROTARY REGENERATOR FOR AIRCRAFT GAS TURBINES
PWA-2174, SUPPL. A N64-14025 05-27

REGGE PARAMETER
CANONICAL TRANSFORMATIONS IN ANGULAR-MOMENTUM REPRESENTATION OF LOW ENERGY SPHERICAL NUCLEI - QUASI-PARTICLE INTERACTIONS
UCRL-11080 N64-14164 05-23

NUMERICAL STUDY OF REGGE PARAMETERS IN POTENTIAL SCATTERING OF RADIO WAVES
UCRL-11096 N64-14165 05-23

DYNAMICAL S-MATRIX EQUATIONS WITH REGGE BEHAVIOR
UCRL-11125 N64-15340 07-20

REGION
S FRESNEL REGION
S POLAR REGION
S STAGNATION REGION

REGRESSION
ASPECTS OF NONLINEAR REGRESSION ANALYSIS
BSD-TDR-63-239 N64-15587 07-20

ESTIMATION OF COVARIANCE AND AUTOREGRESSIVE STRUCTURE OF STATIONARY TIME SERIES
AROD-2025-12 N64-16778 08-20

MULTIPLE REGRESSION ANALYSIS OF HUMAN PILOT DYNAMIC RESPONSE
ASD-TDR-63-618 N64-18787 11-20

REGRESSION EQUATIONS FOR IMPACT PREDICTION OF AEROBEE-HI ROCKET
ERDA-126 N64-18891 11-32

CORRECTION OF IN-PLANE INJECTION DELAY CAUSED BY ORBITAL PLANE REGRESSION IN LUNAR LAUNCH FROM ORBITING SPACE STATION
NASA-RP-160 N64-19032 11-29

REGRESSION COEFFICIENT
LEAST SQUARES ESTIMATION OF REGRESSION COEFFICIENTS OF BALANCED POLYNOMIALS
N64-20962 14-20

REGULATION
ANIMAL AND HUMAN CALORIMETRY, HUMAN RESPONSES TO COLD SKIN AND TO HIGH CORTICAL TEMPERATURE, HUMAN THERMOREGULATOR
ASAE PAPER 62-422 N64-13149 04-16

ELECTROSLEEP INFLUENCE ON THERMOREGULATION REFLEX AND ELECTRIC RESISTANCE OF SKIN IN PATIENTS WITH PRURITIC DERMATOSIS
RSIC-105 N64-13812 05-16

MULTIPLE COMPONENT REGULATION TRANSFORMED INTO SINGLE COMPONENT CONTROL FOR ROCKET BOOSTERS
NASA-CR-55345 N64-14156 05-22

ANALOG COMPUTER SIMULATION OF THERMOREGULATORY MECHANISMS OF HUMAN BODY
AMRL-TDR-63-116 N64-14966 06-16

STABILITY OF WHITE SURFACE COATINGS FOR THERMO-REGULATION IN SPACE ENVIRONMENT
NASA-CR-53086 N64-16741 08-19

PHYSIOLOGICAL MECHANISMS OF CHEMICAL THERMOREGULATION N64-22169 15-16

SURFACE COATINGS FOR SATELLITE THERMOREGULATION
AD-602894 N64-30474 22-17

USE OF HUMAN THERMOREGULATORY PROPERTIES FOR QUARTZ CRYSTAL OSCILLATORS
USAELRDL-TR-2380 N64-31231 22-09

REGULATOR
FLOW CONTROLLER FOR LIQUID SODIUM COOLANT IN NUCLEAR POWERPLANTS - ENVIRONMENTAL AND PERFORMANCE TESTING
NAA-SR-7534 N64-11999 03-06

BIOCHEMICAL SELF-REGULATION MECHANISMS OF CELL - CYBERNETICS N64-12528 04-16

VIBRATION PERIOD OF RESTRICTED RELEASING REGULATOR
N64-23585 16-23

AUTOMATIC SYSTEMS - REGULATOR WITH CONTROL QUALITIES N64-23592 16-04

EQUIVALENCE OF REGULATOR DIAGRAMS ACCORDING TO INPUT PARAMETERS N64-23596 16-06

SIMILARITY THEORY METHODS FOR GAS TURBINE REGULATORY SYSTEMS
FTD-TT-62-1815/1&2&4 N64-26817 18-17

LOW VOLTAGE DIRECT CURRENT CONVERTER AND REGULATOR
NASA-CR-56451 N64-27876 20-06

CALCULATING REGULATOR SCALE FOR RC NETWORK SIGNAL GENERATOR N64-29127 21-15

SMALL ELECTRIC CLOCK-REGULATOR WITH INDIRECT DRIVE AND INDEPENDENT STABLE SELF-OSCILLATION
N64-29146 21-15

REINFORCED MATERIAL
RADIATION SHIELDING AND DYNAMIC RESPONSE OF UNDERGROUND REINFORCED-CONCRETE TEST STRUCTURES
WT-1723 N64-11964 03-23

BONDING IN OXIDE FIBER WHISKER REINFORCED METAL MATERIALS
AMRA-CR-63-01/2 N64-12044 03-19

TENSILE STRENGTH OF REINFORCED HIGH TEMPERATURE ELASTOMERS IMPROVED BY USE OF CHEMICALLY MODIFIED FILLERS
AD-405893 N64-12816 04-07

BONDING IN OXIDE-FIBER REINFORCED MATERIALS - EFFECTS OF IMPURITIES
AMRA-CR-63-01/3 N64-12935 04-18

FAILURE MODES OF FILAMENT REINFORCED MATERIALS INCLUDING INFLUENCE OF CONSTITUENT GEOMETRY AND PROPERTIES
NASA-CR-55192 N64-13181 04-34

BOUNDS AND EXPRESSIONS FOR ELASTIC MODULI OF CIRCULAR FIBER-REINFORCED MATERIALS BY VARIATIONAL METHOD
ASME PAPER-63-WA-175 N64-13943 05-19

STRENGTH OF REINFORCED PLASTIC LAMINATES AT ELEVATED TEMPERATURES
RTD-TDR-63-4091 N64-16470 08-19

REINFORCED HIGH TEMPERATURE ELASTOMERS
AD-432322 N64-18894 11-19

ELASTIC MODULUS OF MATERIALS REINFORCED BY HOLLOW CIRCULAR FIBERS
NASA-CR-31 N64-19882 12-33

THERMAL EXPANSION DIFFERENCES BETWEEN MATRIX AND REINFORCEMENT ON STRENGTH RETENTION OF GLASS REINFORCED ALUMINUM PHOSPHATE LAMINATES
IER-4 N64-20179 13-13

WHISKER-REINFORCED METALLIC COMPOSITES
N64-25418 17-17

NONLINEAR DYNAMIC RESPONSE OF REINFORCED CONCRETE CIRCULAR ARCHES
R64-6 N64-25584 17-33

MODELING OF REINFORCED CONCRETE STRUCTURES UNDER DYNAMIC LOAD
R63-54 N64-25749 17-33

PRESSURIZED BOW DOME OF CABLE-REINFORCED RUBBER CONSTRUCTION FOR USE WITH SONAR EQUIPMENT
REPT.-12 N64-28703 20-34

INTERCELLULAR FLUID MOBILITY WITHIN HONEYCOMB REINFORCED COMMON BULKHEAD FOR SATURN S- IV LAUNCH VEHICLE - BULKHEAD PURGING
NASA-TM-X-53094 N64-33185 24-11

REINFORCED PLASTIC
FABRICATIONS, PROPERTIES, AND USES FOR FOUR BASIC GLASS FIBER REINFORCED PLASTICS
JPRS-19389 N64-10587 01-19

TECHNOLOGY OF GLASS FIBER REINFORCED PLASTIC PRODUCTION AND APPLICATION
JPRS-18890 N64-10646 01-19

STRENGTH AND WEAKNESS FACTORS OF GLASS FIBER REINFORCED PLASTICS N64-15118 07-33

FATIGUE TEST OF LAMINATED REINFORCED PLASTIC MATERIALS UNDER AXIAL LOAD
ASD-TDR-63-768 N64-17845 10-33

X-RAY TELEVISION IMAGING SYSTEM FOR INSPECTION OF FIBERGLASS REINFORCED PLASTIC MISSILE CASES
WAL-TR-142.5/2-3 N64-18611 11-11

X-RAY SCAN TELEVISION SYSTEM FOR INSPECTION OF FIBERGLASS REINFORCED PLASTIC ROCKET MOTOR CASES
WAL-TR-142.5/2-6 N64-18613 11-17

TELEVISION X-RAY SYSTEM FOR INSPECTION OF FIBER-GLASS REINFORCED PLASTIC ROCKET MOTOR CASES
WAL-TR-142.5/2-7 N64-18614 11-17

TELEVISION X-RAY SYSTEM FOR INSPECTION OF FIBER-GLASS REINFORCED PLASTIC ROCKET MOTOR CASES
WAL-TR-142.5/2-7A N64-18615 11-17

HOLLOW GLASS FIBER REINFORCED PLASTICS COMPARED WITH SOLID GLASS-PLASTIC COMPOSITES
R63SD41 N64-19129 11-19

EVALUATING METHODS FOR UNWOVEN GLASS-FIBER REINFORCED PLASTIC LAMINATES IN FLEXURE
FPL-024 N64-19565 12-34

NONDESTRUCTIVE INSPECTION & TESTING OF FIBERGLASS REINFORCED PLASTIC MISSILE CASES & STRUCTURAL MATERIALS BY USE OF X-RAY TELEVISION EQUIPMENT
WAL-TR-142.5/2-8 N64-20319 13-17

COMPILATION AND ANALYSIS OF TEST DATA ON FIBERGLASS-REINFORCED PLASTICS
R-479 N64-21076 14-03

EFFECT OF GLASS FIBER FORM ON STRENGTH OF REINFORCED PLASTIC COMPOSITES
R64SD18 N64-21786 15-19

INTERLAMINAR SHEAR STRENGTH OF FILAMENT-WOUND REINFORCED PLASTICS
QPR-1 N64-22292 15-17

INTERLAMINAR SHEAR OF FILAMENT-WOUND PLASTICS
QPR-2 N64-22293 15-33

INTERLAMINAR SHEAR OF FILAMENT-WOUND REINFORCED PLASTICS
QPR-3 N64-22294 15-33

SHEAR STRENGTH OF PLASTIC LAMINATES REINFORCED WITH UNWOVEN GLASS FIBERS
FPL-033 N64-22894 16-34

REINFORCED PLASTIC CONSTRUCTION METHODS FOR LARGE ROCKET MOTOR CASE - SURVEY
TR-63-7-858, VOL. I N64-26192 18-15

REINFORCED PLASTIC CONSTRUCTION METHODS FOR LARGE ROCKET MOTOR CASE - DESIGNS
TR-63-7-858, VOL. II N64-26342 18-17

REINFORCED PLASTIC CONSTRUCTION METHODS FOR LARGE ROCKET MOTOR CASE - TU-228 CASE DESIGN
TR-63-7-858, VOL. III N64-26343 18-17

REINFORCED PLASTIC CONSTRUCTION METHODS FOR LARGE ROCKET MOTOR CASE - TU-290 CASE FABRICATION
TR-63-7-858, VOL. IV N64-26344 18-17

REINFORCED PLASTIC CONSTRUCTION METHODS FOR LARGE ROCKET MOTOR CASE - MANDRELS
TR-63-7-858, VOL. V N64-26345 18-17

REINFORCED PLASTIC CONSTRUCTION METHOD FOR LARGE ROCKET MOTOR CASE - STRESS ANALYSIS
TR-63-7-858, VOL. VI N64-26346 18-17

TENSILE AND COMPRESSIVE PROPERTIES OF PLASTIC LAMINATES REINFORCED WITH UNWOVEN GLASS FIBERS
FPL-052 N64-30686 22-19

SURFACE CHEMISTRY OF GLASS FIBER REINFORCED PLASTICS
NRL-6083 N64-31426 23-19

PLASTIC & GLASS REINFORCED PLASTIC FOR SHIPBOARD PIPELINES
TDCK-36363 N64-32019 23-19

OPTIMUM CONSTRUCTION OF ORTHOTROPIC REINFORCED PLASTIC CYLINDERS SUBJECTED TO HIGH EXTERNAL PRESSURE
SM-44594 N64-32157 23-33

INTERLAMINAR SHEAR STRENGTH OF FILAMENT-WOUND REINFORCED PLASTICS
AD-603565 N64-32196 23-19

TENSILE MEAN STRESSES EFFECT ON FATIGUE PROPERTIES OF PLASTIC LAMINATES REINFORCED WITH UNWOVEN GLASS FIBERS
ML-TDR-64-86 N64-32250 23-19

DATA RETRIEVAL AND STORAGE OF MECHANICAL PROPERTY INFORMATION OF METALS AND REINFORCED PLASTICS
ASD-TDR-63-566, PT. I N64-32610 23-10

REINFORCEMENT
CORROSION OF REINFORCING STEEL IN POROUS CONCRETE
JPRS-17616 N64-10704 02-10

STRESSED STATE OF CYLINDRICAL SHELLS REINFORCED WITH RIBS - TWO METHODS OF SOLUTION
FTD-TT-62-1623/1&2 N64-11189 02-34

ELASTIC STABILITY OF THIN RECTANGULAR PLATES REINFORCED WITH HORIZONTAL AND VERTICAL STIFFENERS AND STRESSED IN COMPOUND BENDING AND SHEAR
RSIC-86 N64-14360 06-33

ALUMINA WHISKERS AND WHISKER REINFORCED COMPOSITES USED AS FIBER REINFORCED MATERIALS
AD-432121 N64-16833 08-10

BONDING IN OXIDE-FIBER REINFORCED MATERIALS - ALUMINUM OXIDE & NICKEL ALLOYS
AMRA-CR-63-01/5 N64-16993 09-19

RELATION OF HUMAN PERFORMANCE IN AUDITORY VIGILANCE TO CHANGES IN REINFORCEMENT
TR-19 N64-27097 19-14

GLASS FIBER REINFORCEMENTS FOR FILAMENT WOUND COMPOSITE STRUCTURES
TR-64-8-104 N64-29555 21-17

REINFORCEMENT OF SILVER WITH STEEL FIBERS
IITRI-B6020-3 N64-31029 22-10

ALLOY EFFECTS ON ROOM TEMPERATURE TENSILE PROPERTIES AND MICROSTRUCTURE OF TUNGSTEN-FIBER REINFORCED COPPER ALLOY COMPOSITES
NASA-RP-311 N64-31442 23-17

TENSILE MEAN STRESSES EFFECT ON FATIGUE PROPERTIES OF PLASTIC LAMINATES REINFORCED WITH UNWOVEN GLASS FIBERS
ML-TDR-64-86 N64-32250 23-19

DIFFUSION BONDING OF STAINLESS STEEL WIRE MESH REINFORCEMENT TO BERYLLIUM TUBE FOR HYPERVELOCITY IMPACT TARGET
NASA-CR-54222 N64-34010 24-17

REINFORCEMENT RING
FORMULAS FOR STRESS CALCULATION FOR ELLIPTICAL REINFORCEMENT RING
PIBAL-684 N64-22048 15-33

REISSNER EQUATION
INVESTIGATION OF INFINITE CIRCULAR CYLINDRICAL SHELL SUBJECTED TO PERIODICALLY SPACED

AXISYMMETRIC BAND LOADS - REISSNER EQUATION
PIBAL-689 N64-33760 24-33

REJECTION
NON-CHOPPING RIOMETER WITH CONTINUOUS WAVE & PULSE INTERFERENCE REJECTION CIRCUITS
AD-446633 N64-33502 24-15

RELATIVE BIOLOGICAL EFFECTIVENESS /RBE/
HAZARDS OF EXPOSURE TO PROTON RADIATION DURING SPACE FLIGHT, RELATIVE BIOLOGICAL EFFECTIVENESS AND LINEAR ENERGY TRANSFER
NASA-CR-55189 N64-13186 04-16

RELATIVE BIOLOGIC EFFECT OF IRRADIATION OF MICE WITH VARIOUS HEAVY IONS N64-15217 07-16

RELATIVE BIOLOGICAL EFFECTIVENESS OF NEUTRONS AND PROTONS
FTD-TT-63-1046/1&4 N64-25455 17-16

CORRELATION OF LINEAR ENERGY TRANSFER WITH RELATIVE BIOLOGICAL EFFECTIVENESS OF SPACE RADIATIONS
NASA-CR-58289 N64-29573 21-16

RELATIVISTIC EFFECT
RELATIVISTIC EFFECT, USE, AND RESPIRATORY PHYSIOLOGY OF MUSCLE RELAXANTS
JPRS-22995 N64-14074 05-16

RELATIVISTIC VELOCITY
NOMOGRAPHS FOR RELATIVISTIC VELOCITY TRANSFORMATION
NASA-CR-58494 N64-28878 20-23

RELATIVITY
SPINOR FORMULATION OF ELECTROMAGNETIC THEORY IN GENERAL RELATIVITY
AFCRL-64-8 N64-16037 07-23

RELATIVISTIC ROTATION AND INVARIANCE OF MAXWELL EQUATIONS
NASA-TM-X-54018 N64-17694 09-23

RELATIVISTIC INTEGRAL KINETIC EQUATIONS
N64-31750 23-11

RELATIVITY THEORY
SA FIELD THEORY
SA SCHWARZSCHILD METRIC
CF EINSTEIN EQUATION
FOUR-DIMENSIONAL FORMULATION OF NEWTONIAN MECHANICS AND THEIR RELATION TO SPECIAL & GENERAL THEORY OF RELATIVITY N64-10858 02-23

EXTENSION OF SPECIAL RELATIVITY TO TRANSFORMATIONS FOR VARIABLE MASS SYSTEMS, & RELATIVISTIC PERTURBATION THEORY FOR SATELLITE ORBITS
NASA-TR-R-188 N64-12155 03-23

LIFE AND SPACE ENVIRONMENT, AND TEST OF RELATIVITY THEORY N64-16353 08-16

COVARIANCE & ROLE OF COORDINATES IN DERIVATION OF MOTION EQUATIONS IN RELATIVITY
NASA-CR-56829 N64-25568 17-23

THEORY OF RELATIVITY APPLIED TO SUPERSTARS AND GRAVITATIONAL WAVE COLLAPSE
JPRS-25399 N64-25787 17-29

CONSERVATION LAW FOR ANGULAR MOMENTUM IN GENERAL RELATIVITY THEORY N64-27223 19-23

RELATIVISTIC THEORY FOR DISCRETIZATION IN GALACTIC STRUCTURE & COSMOLOGY
RM-3990-RC N64-30039 21-29

DIALOGUE ON THEORY OF RELATIVITY AND PHYSICS OF NEAR-LIGHT SPEEDS
FTD-MT-64-254 N64-31797 23-23

RELAXATION
SA STRESS RELAXATION
THERMAL RELAXATION IN ONE-SPECIES, ONE-DIMENSIONAL PLASMA - THEORY & EXPERIMENT
MATT-213 N64-11313 02-24

RELA-ATION
PROTEIN SULFUR COMPOUNDS AND SPIN-LATTICE INTERACTION WITH FREE RADICALS
JPRS-21992 N64-10893 02-01

STAGNATION POINT HEAT TRANSFER IN A RELAXING GAS
TDR-269/4305/-1 N64-12061 03-13

GENERAL PROPERTIES OF FLOW EQUATIONS FOR RELAXING MEDIA
RAE-TRANS-1047 N64-14239 06-11

LONGITUDINAL NUCLEAR MAGNETIZATION SPIN-SPIN RELAXATION
AD-429014 N64-14791 06-23

UNIFIED THEORY OF RELAXATIONS IN PLASMAS
IPPJ-17 N64-15982 07-24

RELAXATION MODEL OF BOLTZMANN EQUATION FOR AERODYNAMICS OF RAREFIED GASES N64-16600 08-23

MATERIAL SCIENCE RESEARCH ON LATTICE DYNAMICS, NUCLEAR MAGNETIC RELAXATION, AND THIN FILM MAGNETORESISTANCE
AD-432134 N64-16842 08-23

RELAXATION MODULUS FOR POLYISOBUTYLENE - MOLECULAR MECHANISMS OF TORSIONAL VIBRATIONS, INTERNAL ROTATION, AND GAUSSIAN SEGMENTS
AD-431939 N64-17314 09-19

SPIN-LATTICE RELAXATION TIME CALCULATION FOR RUBY WITH LOW CHROMIUM CONCENTRATION AND AT LOW TEMPERATURE N64-19305 12-25

PARAMAGNETIC RELAXATION IN CRYSTALS
AFCRL-64-307 N64-21316 14-25

VIBRATIONAL RELAXATION AND RECOMBINATION OF NITROGEN AND AIR IN HYPERSONIC NOZZLE FLOWS
REPT.-63-RL-/3429C/ N64-21734 15-11

FLOW RELAXATION IN GASES & DEVIATION IN THERMODYNAMIC EQUILIBRIUM IN FLOW AROUND CONES
FTD-TT-63-655/1&2 N64-21934 15-11

RELAXATION PROCESSES IN DIELECTRICS AND SEMICONDUCTORS
FTD-TT-63-3/1&264 N64-23412 16-09

RELAXATION EFFECTS IN TRANSPORT PROPERTIES OF GAS OF ROUGH SPHERES
NASA-CR-56553 N64-23525 16-23

IONIZATIONAL RELAXATION FOR MODERATELY STRONG SHOCKS IN MONATOMIC GASES N64-26150 18-24

SHOCK FRONT RADIATION IN SHOCK TUBE AND SPECTROSCOPIC TEMPERATURE MEASUREMENT IN RELAXATION ZONE
NASA-CR-58036 N64-27292 19-07

NUCLEAR MAGNETIC RESONANCE AND SPIN LATTICE RELAXATION TIMES OF LIQUID AND SOLID HELIUM-3
AD-601582 N64-27689 19-23

RATE EQUATIONS DERIVED FOR SIX-LEVEL MASER USING CROSS RELAXATIONS BETWEEN SPIN LEVELS IN PHOSPHORUS-BORON DOPED SILICON
AFCRL-64-243 N64-28577 20-25

NUCLEAR MAGNETIC SUSCEPTIBILITY AND SPIN-LATTICE RELAXATION TIME MEASUREMENTS OF LIQUID HELIUM 3
AD-420098 N64-31157 22-23

MAGNETIC FIELD DEPENDENCE OF SPIN-LATTICE RELAXATION IN NEODYMIUM MAGNESIUM NITRATE
TR-6 N64-32000 23-25

DYNAMIC PROPERTIES OF MAGNETIC PHASE TRANSITIONS - RELAXATION TIME OF SPIN-FLOPPING TRANSITION IN CUPRIC CHLORIDE DIHYDRATE CRYSTALS
MC-62-49-R4 N64-32104 23-25

CONFINING REGIONS OF RELAXATION OSCILLATIONS
R-228 N64-33798 24-23

RELAXATION TIME
TABLES OF STATIC DIELECTRIC CONSTANTS, DIPOLE MOMENTS, AND DIELECTRIC RELAXATION TIMES FOR PURE SOLIDS AND LIQUIDS N64-14184 06-23

RELAXATION TIME AND PHONON MEAN FREE PATH FOR ELECTRON-ION GAS - QUANTUM MECHANICS
IPPJ-18 N64-18143 10-24

TENSILE STRENGTH AND RELAXATION TIME OF STYRENE COPOLYMERS
PIBAL-687 N64-20331 13-07

PULSE, ECHO, AND RELAXATION TIMES IN NUCLEAR MAGNETIC RESONANCES
NADC-AW-6332 N64-25945 18-23

RELAXATION TIME MEASUREMENTS OF EXCITED STATES OF PARAMAGNETIC IONS IN CRYSTALS - FLUORESCENCE LIFETIMES OF RUBY
AF-111 N64-28792 20-25

SPIN ECHO PHENOMENA - MEASUREMENT OF NUCLEAR MAGNETIC RELAXATION & MICROSTRUCTURE OF MOLECULES, APPLICATION IN PREPARATION OF DELAY LINES & STORAGE UNITS N64-29055 21-23

RELAXATION TIME OF SPIN-FLOPPING TRANSITION IN CUPROUS CHLORIDE
MC-62-49-R2 N64-30002 21-25

ELECTRONIC RELAXATION EFFECT IN METAL EMISSIVITY
USNRDL-TR-755 N64-30596 22-25

NUCLEAR MAGNETIC SUSCEPTIBILITY AND SPIN-LATTICE RELAXATION TIME MEASUREMENTS OF LIQUID HELIUM 3
AD-420098 N64-31157 22-23

DYNAMIC PROPERTIES OF MAGNETIC PHASE TRANSITIONS - RELAXATION TIME OF SPIN-FLOPPING TRANSITION IN CUPRIC CHLORIDE DIHYDRATE CRYSTALS
NC-62-49-R4 N64-32104 23-25

RELAY
THEORY OF RELAY DEVICES AND FINITE AUTOMATA
JPRS-19483 N64-10588 01-09

INVESTIGATION OF STATISTICAL RELAY EFFECT AUTOMATONS WHEN STOCHASTIC DISTURBANCES ARE PRESENT - CYBERNETICS N64-12461 04-20

AMPLITUDE-FREQUENCY TRANSFER FUNCTION OF RELAY CONTROL MECHANISM WITH INDEPENDENTLY DRIVEN MOTOR - CYBERNETICS N64-12468 04-06

RANDOM ACCESS STATIONARY SATELLITE RELAY COMMUNICATION SYSTEM
PCE-R-1152-0020A N64-16163 08-08

ALGORITHM FOR CONSTRUCTION OF RELAY SCHEMES
FTD-TT-63-59/162 N64-16355 08-20

PNEUMATIC JET RELAY SYSTEM FOR PROPULSION SYSTEM CONTROL
DSR-9159-1 N64-16853 08-27

ELECTROMAGNETIC RELAYS N64-19501 12-01

POWER SWITCHING WITH SUBMINIATURE SEALED RELAYS IN MANNED SPACECRAFT SYSTEMS N64-19502 12-09

COST ESTIMATION OF MANUFACTURING RELAY DEVICES N64-19505 12-17

MYLAR INSULATION IN RELAY MANUFACTURING N64-19506 12-17

ELECTRIC CONTACT CONTAMINATION FROM FRETTING CORROSION IN AC COIL RELAYS N64-19507 12-09

PRODUCTION COST ESTIMATION OF RELAYS N64-19508 12-17

TRANSISTORIZED RESISTANCE-CAPACITANCE TIME DELAY RELAYS N64-19509 12-09

ELECTRIC CIRCUITS FOR TESTING RELIABILITY OF RELAYS N64-19511 12-17

ACCEPTANCE TESTING FOR RELIABILITY ANALYSIS OF RELAYS N64-19512 12-17

SPECIFICATIONS AND APPLICATIONS - EFFECT ON RELAY RELIABILITY N64-19513 12-09

INCREASED RELAY RELIABILITY THROUGH PROPER APPLICATION N64-19515 12-09

LIFE OF UNSEALED GENERAL PURPOSE TELEPHONE RELAYS N64-19521 12-09

NONDESTRUCTIVE TESTING FOR PARASITIC ARC SUSCEPTIBILITY IN RELAYS N64-19523 12-09

MINIATURE MERCURY-NEEDLE RELAY N64-19525 12-09

RELIABILITY OF GENERAL PURPOSE RELAYS USED ON A-5A AIRCRAFT N64-19527 12-09

AUTOMATIC TEST SYSTEM FOR RELAYS N64-19528 12-17

IMPACTS AND DAMPING PROBLEMS IN FAST MINIATURE TELEGRAPH RELAYS N64-19529 12-09

MATHEMATICAL MODEL TO SHOW RELATIONSHIP BETWEEN DESIGN AND SPECIFICATIONS IN SELECTING SET OF PARAMETERS FOR RELAYS N64-19530 12-09

DIFFUSED CHROMIUM COATINGS FOR RELAY COMPONENTS - METALLURGY AND SURFACE EFFECTS N64-19533 12-17

NONADJUSTED RELAY FOR CODING AND COMMUNICATIONS SYSTEMS N64-19535 12-09

DRY REED RELAY SWITCHING DEVICES - CHARACTERISTICS AND APPLICATIONS N64-19538 12-09

RELAY DEFINITIONS AND TERMINOLOGY N64-19541 12-09

RELAY SYSTEMS FOR TRANSMISSION OF RADAR OBSERVATIONS - TELEVISION SYSTEMS, RADAR SIGNAL TRANSMITTERS, AND CONVERTED SIGNAL TRANSMITTERS N64-24643 17-09

FREQUENCY-AMPLITUDE TRANSFER FUNCTION OF RELAY EXECUTIVE MECHANISM WITH SEQUENTIAL EXCITATION MOTOR N64-30224 22-09

RELAY SYSTEMS AND AUTOMATIC CONTROL TECHNOLOGY - CONFERENCE
FTD-MT-63-257 N64-33702 24-09

RELAY I SATELLITE
DAMAGE TO SOLAR CELL RADIATION SHIELDS IN RELAY I AND RELAY II SATELLITES N64-29153 21-06

TRAPPED RADIATION MEASUREMENTS BY RELAY I SATELLITE
NASA-CR-59023 N64-33123 24-21

RELAY II SATELLITE
DAMAGE TO SOLAR CELL RADIATION SHIELDS IN RELAY I AND RELAY II SATELLITES N64-29153 21-06

RELAY SATELLITE
RELAY SATELLITE SUBSYSTEMS & EXPERIMENTS
IAC PAPER-81 N64-11894 03-32

VIBRATION DAMPING DEVICE FOR RELAY SATELLITE
IAC PAPER-137 N64-11895 03-32

RELAY SATELLITE DESTRUCTION FAILURE, ANTICIPATED LIFESPAN, AND HISTORY OF TRANSMISSIONS N64-12391 03-32

RELAY COMMUNICATIONS SATELLITE LAUNCHING ABOARD DELTA ROCKET N64-13202 04-32

COMMUNICATIONS SATELLITE TECHNOLOGY - ECHO, RELAY, AND SYNCOM PROJECTS N64-30342 22-32

RELEASE DEVICE
THERMAL RELEASING CONNECTOR DEVICE REGULATION
AD-436825 N64-20135 13-06

SPONTANEOUS CHARGE RELEASE AND ABSORPTION IN

PIEZOELECTRIC CERAMICS
SUFFIELD-TN-137 N64-33002 24-15

RELIABILITY
SA COMPONENT RELIABILITY
SA SYSTEM FAILURE
RELIABILITY AND QUALITY CONTROL REQUIREMENTS FOR MANNED SPACE FLIGHT - DESIGNS, PROCEDURES, AND SCHEDULES
NASA-TM-X-51030 N64-10110 01-32

COMPUTER RELIABILITY DEPENDENCE ON TIME FUNCTION & INTEGRATED APPARATUS N64-10698 02-06

MERCURY-ATLAS BOOSTER RELIABILITY
NASA-CR-52665 N64-10904 02-01

SYSTEM RELIABILITY DETERMINATION FROM RELIABILITY VALUES OF COMPONENTS
EWR-103-63 N64-10972 02-06

AIRCRAFT PRODUCTION RELIABILITY PROGRAM MANAGEMENT FOR OPTIMUM TIME & COST - CONTRACTOR-SUBCONTRACTOR RELATIONSHIP
EWR-104-63 N64-10973 02-20

IMPROVING RELIABILITY OF DIGITAL SYSTEMS THROUGH LOGICAL REDUNDANCY
NASA-CR-52605 N64-11077 02-20

IMPROVED RELIABILITY OF DIGITAL SYSTEMS THROUGH LOGICAL REDUNDANCY TECHNIQUES
NASA-CR-52866 N64-11331 02-20

RELIABILITY OF MECHANICAL AND ELECTROMECHANICAL COMPONENTS FOR IMPROVED DESIGN OF CIRCUITS
APJ-309-1 N64-11458 03-17

STORAGE AND LIFETIME TEST DATA FOR IMPROVEMENT OF TRANSISTOR RELIABILITY
AD-423881 N64-11774 03-09

NASA QUALITY & RELIABILITY CONTROL PROGRAM
NASA-TM-X-51276 N64-11813 03-01

RELIABILITY AND FAILURE OF DIGITAL COMPUTER AND COMPONENTS
SSD-TDR-63-150 N64-12183 03-20

SPACE ENVIRONMENT EFFECT ON RELIABILITY OF EQUIPMENT, COMPONENTS, AND MATERIALS N64-12354 03-09

RELIABILITY MEASUREMENTS OF SILICON TRANSISTORS
AD-423608 N64-12365 03-09

ENDURANCE TESTING FOR SPLASH-COOLED COMBUSTOR AND FOR CORROSION PROTECTION OF TURBINE BLADING ALLOYS
REPT.-851-63R N64-12936 04-26

TRANSISTOR RELIABILITY AND PRODUCTION METHODS IMPROVEMENT
AD-423248 N64-12983 04-09

PRODUCTION TECHNIQUES TO IMPROVE RELIABILITY OF SILICON TRANSISTORS
AD-422641 N64-12989 04-09

LANDING-GEAR ASSEMBLY RELIABILITY GOAL AND APPORTIONMENT TO SUBASSEMBLY LEVELS
NASA-CR-55216 N64-13179 04-06

RELIABILITY OF COMPONENTS IN SEQUENCE WITH SENSING, SWITCHING, AND SHELF-LIFE FAILURES
REPT.-6121-7531-TU-000 N64-13371 04-20

RELIABILITY PREDICTION FOR DEGRADABLE AND NONDEGRADABLE SYSTEMS
ESD-TDR-63-642 N64-13816 05-20

ACCELERATED LIFE DETECTOR FOR RELIABILITY TESTING OF SEMICONDUCTOR DEVICES
USAELRDL-TR-2362 N64-13829 05-09

TRANSISTOR RELIABILITY - PRODUCTION ENGINEERING
QPR-1 N64-13979 05-17

IMPROVED MANUFACTURING TECHNIQUES FOR INCREASED RELIABILITY OF FIELD EFFECT TRANSISTORS
QR-1 N64-13990 05-17

PROCESSING IMPROVEMENTS FOR INCREASED RELIABILITY OF SILICON TRANSISTORS
QPR-4 N64-14004 05-17

DYNAMIC DECISION FUNCTION EVALUATION AND METHOD FOR ESTIMATING RELIABILITY OF REDUNDANT SYSTEMS
NASA-CR-55307 N64-14286 06-09

PRODUCTION ENGINEERING TO IMPROVE AND INCREASE RELIABILITY OF PNP SILICON TRANSISTORS
QPR-1 N64-14299 06-17

LIFE AND RELIABILITY INCREASE FOR USSR AIRCRAFT TURBOJET ENGINE
FTD-MT-63-108/1&2&3&4 N64-14387 06-27

PRODUCTION & DESIGN CHANGES TO IMPROVE RELIABILITY OF SILICON ALLOY TRANSISTORS
QR-5 N64-14636 06-09

BOUNDS /MAXIMA & MINIMA/ FOR INTEGRALS APPLIED TO STATISTICAL PROBLEMS IN LIFE TESTING & RELIABILITY
ORC-63-27-/RR/ N64-14763 06-20

VISCOELASTIC ANALYSIS OF STRUCTURAL INTEGRITY OF AXIALLY ACCELERATED ROCKET WITH ABLATING BOUNDARY EFFECT
AIAA PAPER-64-151 N64-14855 06-13

ENGINEERING METHODS FOR PRODUCTION IMPROVEMENT AND INCREASED RELIABILITY OF 2N1358A TRANSISTOR
AD-423651 N64-15297 07-17

RELIABILITY OF MARINER B TELECOMMUNICATIONS
NASA-CR-53056 N64-15780 07-32

PRODUCTION METHOD FOR INCREASING RELIABILITY OF SILICON PLANAR EPITAXIAL TRANSISTORS
AD-429920 N64-15857 07-09

ADVANCED CONCEPT INFLATABLE PARAGLIDER MODEL - MATERIAL AND STRUCTURAL TESTING AND EVALUATION
NASA-CR-55722 N64-15890 07-34

STRUCTURES, MATERIALS SCIENCE, RELIABILITY, AND METEOROID HAZARDS N64-16004 07-34

SCREENING PROGRAM FOR IMPROVING RELIABILITY OF SPACE ELECTRONIC EQUIPMENT N64-16158 08-09

RELIABILITY OF VISIBLE CHANNEL OF TIROS SATELLITE 5-CHANNEL RADIOMETER
NASA-CR-53105 N64-16743 08-12

PRODUCTION METHODS FOR IMPROVING RELIABILITY OF GERMANIUM POWER TRANSISTOR
AD-432235 N64-17439 09-09

QUALITY CONTROL MANUAL FOR IMPROVING RELIABILITY OF GERMANIUM TRANSISTORS
AD-432315 N64-17440 09-01

STATISTICAL DERIVATION OF NONPARAMETRIC MEASURES OF RELIABILITY AND DISCRIMINATION
AMRL-592 N64-17481 09-23

MONTE CARLO APPLICATION FOR DEVELOPING SPACE VEHICLE COMPONENT DESIGN RELIABILITY GOAL FOR USE WITH VERY SMALL SAMPLE SIZES
NASA-TM-X-51481 N64-17670 09-17

SAMPLED DATA CONTROL SYSTEM COMBINED WITH CONVENTIONAL & CONTINUOUS CONTROL SYSTEM FOR INCREASED COMPUTER RELIABILITY N64-17786 09-17

USE OF REDUNDANCY AS MEANS OF IMPROVING RELIABILITY - BIBLIOGRAPHY
SSD-TDR-63-375 N64-18012 10-01

MATHEMATICAL MODEL DESCRIBING LIFE CYCLE AND RELIABILITY OF ELECTRONIC SYSTEMS N64-18345 10-20

RELIABILITY AND MAINTAINABILITY OF MILITARY EQUIPMENT IN SHOCK & VIBRATION ENVIRONMENT - MILITARY TECHNOLOGY N64-18535 11-17

RELIABILITY OF SEMICONDUCTOR THIN FILMS & DEVICES
RADC-TDR-64-35 N64-18592 11-25

THRESHOLD LOGIC AND RELIABILITY OF ADJUSTABLE SWITCHING NETWORKS
AFCRL-64-66 N64-18914 11-09

ALGORITHM FOR SOLVING PROBLEM OF MAXIMIZING SYSTEM RELIABILITY UNDER MULTIPLE LINEAR CONSTRAINTS
D1-82-0253 N64-19092 11-20

PARAMETRIC STUDY OF STRUCTURAL FACTOR OF SAFETY FOR AEROSPACE VEHICLES N64-19360 12-34

DYNAMIC PROBLEMS OF LAUNCH VEHICLES AND SPACECRAFT RELIABILITY N64-19373 12-30

STRUCTURAL PERFORMANCE AND RELIABILITY OF FILAMENT WOUND PRESSURE VESSELS
REPT.-0627-I-5 N64-19413 12-34

ELECTRIC CIRCUITS FOR TESTING RELIABILITY OF RELAYS N64-19511 12-17

ACCEPTANCE TESTING FOR RELIABILITY ANALYSIS OF RELAYS N64-19512 12-17

SPECIFICATIONS AND APPLICATIONS - EFFECT ON RELAY RELIABILITY N64-19513 12-09

INCREASED RELAY RELIABILITY THROUGH PROPER APPLICATION N64-19515 12-09

ELECTRICAL RELIABILITY REQUIREMENTS FOR SEALED SWITCHING DEVICES FOR NUCLEAR WEAPONS N64-19517 12-17

RELAY DEGRADATION AS MEASURE OF RELIABILITY N64-19539 12-17

IMPROVED PROCESSING TECHNIQUES FOR SILICON ALLOY POWER TRANSISTOR AND RELIABILITY EVALUATION BY HIGH TEMPERATURE STORAGE STEP STRESS TESTS
AD-436328 N64-19547 12-17

RELIABILITY AND MAINTAINABILITY OF RADAR COMMUNICATIONS SYSTEM IN EXTENDED DEPLOYMENT
ESD-TDR-64-198 N64-19661 12-10

ACCEPTANCE SAMPLING PROCEDURE AND SAMPLING INSPECTION PLANS FOR EVALUATING LOT QUALITY IN TERMS OF RELIABLE LIFE
TR-8 N64-20701 13-20

METHODOLOGY AND SCOPE OF RELIABILITY PHYSICS PROGRAM FOR ELECTRONIC COMPONENTS N64-20968 14-17

FLOWGRAPH TECHNIQUES IN RELIABILITY PROBLEMS - ERROR AND FAILURE ANALYSIS N64-20990 14-20

RELIABILITY AND FAILURE MECHANISMS OF GASEOUS OPTICAL MASERS N64-20992 14-25

PROPERTIES OF SILICON OXIDE PASSIVATION LAYER FOR MICROELECTRONIC DEVICE RELIABILITY N64-20993 14-17

FAILURE MODES IN ELECTRONIC EQUIPMENT AND CORRECTIVE MEASURES FOR RELIABILITY IMPROVEMENT N64-20999 14-09

FACTORS AFFECTING RELIABILITY AND EFFICIENCY OF COMMUNICATIONS CHANNELS - COMMUNICATION THEORY
AFCRL-64-12 N64-21245 14-08

MAGNETIC CORE TRANSISTOR LOGIC ELEMENTS - RELIABILITY AND AEROSPACE USES N64-21384 14-09

MULTICHANNEL PHASE TELEMETRY SYSTEM
FTD-TT-62-1636/1&2&4 N64-21655 15-08

MATHEMATICAL ANALYSIS OF SAFETY AND ARMING SETBACK MECHANISMS OF ORDNANCE PROJECTILES FOR MAXIMUM SAFETY AND RELIABILITY
HDL-TR-1190 N64-22503 15-26

PRODUCTION METHOD FOR QUARTZ CRYSTALS USED IN RELIABILITY STUDY
REPT.-3 N64-22716 15-25

PERFORMANCE RELIABILITY OF FULTON AIR-TO-GROUND PICKUP SYSTEM - RECOVERY DEVICE
TRECOM-TR-64-17 N64-23104 16-04

IMPROVEMENT OF PRODUCTION METHODS AND RELIABILITY OF TRANSISTORS
QPR-7 N64-23110 16-09

ATLAS F WEAPON SYSTEM RELIABILITY - MATHEMATICAL MODEL AND ASSOCIATED STUDIES
BSD-TDR-64-8, VOL. 3 N64-23220 16-30

ATLAS F WEAPON SYSTEM RELIABILITY
BSD-TDR-64-8, VOL. 1 N64-23281 16-31

RELIABILITY AND FAILURE ANALYSIS OF ELECTRIC MOTORS
FTD-TT-63-35/1&2 N64-23414 16-09

RELIABILITY OF ELECTRIC MOTORS
FTD-TT-63-36/1&2 N64-23415 16-09

RELIABILITY IN CONSUMER AND INDUSTRIAL MACHINERY
FTD-TT-63-40/1 N64-23416 16-04

FAILURE MODES IN MICROELECTRONICS - RELIABILITY IN SOLID STATE PHYSICS
RADC-TDR-64-61 N64-23953 16-09

BIBLIOGRAPHY ON RELIABILITY
FTC-TDR-63-13 N64-24173 16-04

RELIABILITY ANALYSIS OF ELECTRONIC CIRCUITS N64-24372 17-09

MANAGEMENT PLANNING FOR MINIMUM COST WITHIN RELIABILITY CONSTRAINTS OF DEVELOPMENT PROGRAMS
AIAA PAPER-64-410 N64-24892 17-20

PERFORMANCE RELIABILITY OF ALL-DIFFUSED SILICON CONTROLLED SWITCH
QPR-3 N64-25318 17-17

RELIABILITY AND INCREASE IN WORKING LIFE OF CONTROL AND FUEL-SUPPLY EQUIPMENT OF GAS TURBINE ENGINES N64-25436 17-04

PARALLEL CHANNEL MULTILOOP FEEDBACK AMPLIFIERS FOR APPLICATIONS REQUIRING HIGH RELIABILITY
AFCRL-64-287 N64-25482 17-09

RELIABLE, LOW COST, STABLE GENERAL PURPOSE RESISTORS
QR-3 N64-25585 17-09

HUMAN RELIABILITY IN PERFORMANCE OF MAINTENANCE FOR TITAN II ENGINE
LRP-317/TDR-63-218 N64-26025 18-14

PRODUCTION METHODS TO IMPROVE RELIABILITY OF SILICON ALLOY TRANSISTOR
AD-600024 N64-26638 18-17

BIBLIOGRAPHY ON RELIABILITY N64-27220 19-17

RELIABILITY DATA ON PRESENTLY USED ELECTRONIC CIRCUIT TYPES
RADC-TDR-64-46 N64-27455 19-09

RELIABILITY OF ADVANCED BALLISTIC REENTRY SYSTEMS
GD/A-DDH-64-021 N64-27529 19-17

PROCESS SPECIFICATIONS FOR SILICON TRANSISTORS TO IMPROVE RELIABILITY
REPT.-03-64-42 N64-27728 19-09

RELIABILITY AND MAINTENANCE PROBLEMS IN REACTOR IN-FLIGHT TEST /RIFT/ PROJECT - EVALUATION METHODS FOR FLIGHT PERFORMANCE RELIABILITY N64-28292 20-17

NUCLEAR PROPULSION RADIATION EFFECT ON RELIABILITY CONTROL AND MAINTAINABILITY CONCEPTS IN REACTOR IN-FLIGHT TEST /RIFT/ PROJECT N64-28293 20-17

METHODS FOR EVALUATION OF FLIGHT PERFORMANCE RELIA N64-28294 20-17

PRODUCTION METHOD IMPROVEMENTS AND RELIABILITY TESTING FOR GERMANIUM EPITAXIAL MESA TRANSISTOR
REPT.-03-64-12 N64-28795 20-17

REQUIREMENTS FOR RELIABILITY FATIGUE TESTING WITH STATIC, DYNAMIC, AND ACOUSTIC LOAD FACTORS
RTD-TDR-63-4021 N64-28914 20-33

PSYCHOLOGICAL EFFECTS ON RELIABILITY OF ASTRONAUT UNDER FLIGHT CONDITIONS
FTD-TT-63-761/1&2 N64-29277 21-14

QUARTZ CRYSTAL RELIABILITY TESTING - SYSTEM FAILURE ANALYSIS
REPT.-4 N64-29412 21-17

SUBDIVIDING COMPLEX RADIO EQUIPMENT INTO CONTROLLABLE BLOCKS TO PROMOTE RELIABILITY
N64-29457 21-09

MULTIPLE-LINE REDUNDANT SYSTEMS FOR INCREASING RELIABILITY CONTROL IN ELECTRONICS SYSTEMS
NSD-38516 N64-29640 21-09

MECHANICAL RELIABILITY AND THERMOELECTRIC STABILITY OF NOBLE METAL THERMOCOUPLES AT VERY HIGH TEMPERATURES & UNDER INTENSE NUCLEAR RADIATION
SEG-TDR-64-7 N64-29651 21-15

RELIABILITY OF THIN FILM SEMICONDUCTOR DEVICES
RADC-TDR-64-197 N64-29967 21-25

RELIABILITY AND QUALITY CONTROL MEASURES DURING PRODUCTION OF TRANSISTORS
AD-603363 N64-30147 21-17

CYBERNETICS - AUTOMATIC CONTROL SYSTEMS, ERRORS, SERVOMECHANISMS, LINEAR & NONLINEAR SYSTEMS, AND RELIABILITY
JPRS-26336 N64-30207 22-01

RELIABILITY OF RESERVE SYSTEMS IN PERIODS BETWEEN OCCASIONAL MAINTENANCE SERVICING
N64-30214 22-20

PROBABILITY OF ACCURACY AND RELIABILITY IN AUTOMATIC CONTROL SYSTEMS N64-30226 22-17

IMPROVED RELIABILITY OF SOLID TANTALUM ELECTROLYTE CAPACITORS
QR-3 N64-30793 22-17

RELIABILITY AND FAILURE OF QUARTZ CRYSTALS
REPT.-4 N64-31129 22-17

FACTORS AND PROCEDURES FOR APPLICATION OF NEW STANDARDS IN LIFETIME AND RELIABILITY INSPECTION
TR-10 N64-31168 22-17

RELIABILITY ANALYSIS OF VARIOUS INTEGRANT STRUCTURES USING FLOWGRAPHS
GE/EE/63-3 N64-31253 22-17

MANUFACTURE OF RELIABLE ELECTRONIC COMPUTERS
JPRS-26687 N64-31311 22-17

GEMINI LAUNCH VEHICLE - RELIABILITY AND SUMMARY DATA ON YLR87-AJ-5 AND YLR91-AJ-5 ROCKET ENGINE
REPT.-393-3.4-M-12 N64-31584 23-27

PRESTRESSED MONOLITHIC AND SEGMENTED BRITTLE STRUCTURES - MATHEMATICAL MODELS FOR LOAD DEFLECTION CHARACTERISTICS
NASA-CR-113 N64-32431 23-33

REDUNDANT CIRCUITRY FOR IMPROVED RELIABILITY OF ELECTRONIC EQUIPMENT
NASA-CR-128 N64-32832 24-17

SOLDERING FOR HIGH RELIABILITY ELECTRICAL CONNECTIONS IN SPACECRAFTS
NASA-TM-X-54760 N64-33034 24-17

PRODUCTION METHODS TO INSURE RELIABILITY CONTROL OF FIELD EFFECT TRANSISTORS
QR-4 N64-33314 24-17

RELIABILITY OF RADIOSONDE AEROLOGICAL OBSERVATIONS USING METHOD OF TWIN SONDES N64-33480 24-12

SELECTION OF RELIABLE MECHANICAL PARTS FOR SPACE VEHICLES
NASA-TM-X-54789 N64-33682 24-17

STRUCTURAL RELIABILITY OF FILAMENT WOUND PRESSURE VESSELS - WINDING PATTERNS AND DEFORMATION CONTROL
REPT.-0627-I-F N64-33741 24-33

RELIABILITY ENGINEERING
CF QUALITY CONTROL
PRODUCTION DEVELOPMENT OF SILICON PLANAR EPITAXIAL TRANSISTOR - RELIABILITY ENGINEERING
AD-422536 N64-12998 04-09

PRODUCTION ENGINEERING MEASURES FOR IMPROVED TRANSISTOR RELIABILITY
QPR-3 N64-13611 05-17

PRODUCTION ENGINEERING MEASURES FOR IMPROVED TRANSISTOR RELIABILITY - PROCESSING
N64-13612 05-17

PRODUCTION ENGINEERING MEASURES FOR IMPROVED TRANSISTOR RELIABILITY - FABRICATION
N64-13613 05-17

MEASUREMENT OF ENGINEERING RELIABILITY OF SILICON ALLOY TRANSISTOR
QR-4 N64-13635 05-17

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TRA-873-74, REV. N64-17275 09-17

SILICON PLANAR EPITAXIAL TRANSISTOR - RELIABILITY ENGINEERING
QR-5 N64-17865 10-17

PRODUCTION ENGINEERING MEASURES TO IMPROVE TRANSISTOR RELIABILITY
AD-434402 N64-18064 10-17

INCREASED RELIABILITY OF JET ETCH-TYPE TRANSISTOR THROUGH MANUFACTURING IMPROVEMENTS
AD-433654 N64-18311 10-17

RELIABILITY ENGINEERING FOR PRODUCTION OF DIFFUSED SILICON CONTROLLED SWITCH
AD-434272 N64-18316 10-17

RELIABILITY ENGINEERING FOR SILICON TRANSISTORS
QPR-2 N64-18705 11-17

PRODUCT DEVELOPMENT, RELIABILITY ENGINEERING, AND QUALITY CONTROL OF TRANSISTORS
AD-433496 N64-18909 11-17

RELIABILITY CONTROL OF SILICON PLANAR EPITAXIAL AND SILICON GROWN DIFFUSED TRANSISTORS
QR-7 N64-20079 13-17

RELIABILITY CONTROL IN FABRICATION OF SILICON ALLOY TRANSISTORS
QPR-2 N64-20141 13-17

RELIABILITY ENGINEERING - PRODUCTION DEVELOPMENT OF SILICON PLANAR EPITAXIAL TRANSISTOR WITH LOW FAILURE RATE
AD-437946 N64-20185 13-09

QUALITY CONTROL MANUAL FOR RELIABILITY IMPROVEMENT OF SILICON ALLOY TRANSISTOR
QC-223, VOL. 3 N64-20298 13-17

FABRICATION AND JUNCTION FORMATION OF SILICON ALLOY TRANSISTORS - RELIABILITY IMPROVEMENT
QC-223, VOL. 1 N64-20324 13-17

IMPROVED PRODUCTION METHODS FOR SILICON ALLOY TRANSISTOR - RELIABILITY ENGINEERING
QC-223 N64-20329 13-17

RELIABILITY ENGINEERING OF PLANAR SILICON DIFFUSED TRANSISTOR
REPT.-03-64-09 N64-20447 13-25

QUALITY ASSURANCE MANUAL FOR MAINTAINING HIGH QUALITY & RELIABILITY OF MATERIALS AND SENSORS
N64-20486 13-17

PRODUCTION ENGINEERING METHOD FOR IMPROVING RELIABILITY OF SILICON PLANAR TRANSISTORS AND MICROELECTRONIC MONOLITHIC CIRCUITRY
AD-437181 N64-21463 14-17

PRODUCTION ENGINEERING MEASURE FOR IMPROVED RELIABILITY OF SOLID ELECTROLYTE TANTALUM CAPACITATORS
QR-2 N64-22210 15-09

RELIABILITY ENGINEERING FOR IMPROVEMENT OF SILICON PLANAR EPITAXIAL TRANSISTORS AND MICROELECTRONIC CIRCUITS
AD-601676 N64-24928 17-17

RELIABILITY PREDICTION FOR MECHANICAL AND ELECTROMECHANICAL PARTS
RADC-TDR-64-50 N64-25231 17-77

PRODUCTION ENGINEERING FOR RELIABILITY IMPROVEMENT OF TRIPLE DIFFUSED SILICON TRANSISTOR
TRW5-3000-43-Q-6 N64-25290 17-09

PRODUCTION ENGINEERING METHODS FOR INSURING RELIABILITY OF FIELD EFFECT TRANSISTORS
QR-3 N64-25300 17-09

PRODUCTION ENGINEERING MEASURES TO INCREASE TRANSISTOR RELIABILITY
AD-601955 N64-25399 17-17

PRODUCTION ENGINEERING METHODS FOR INCREASING TRANSISTOR RELIABILITY
AD-601954 N64-25400 17-17

PRODUCTION ENGINEERING MEASURE FOR IMPROVED RELIABILITY OF SOLID TANTALUM CAPACITORS
PR-2 N64-25497 17-09

PRODUCTION ENGINEERING TO IMPROVE RELIABILITY OF SILICON GROWN DIFFUSED TRANSISTOR
AD-601889 N64-25583 17-09

PRODUCTION ENGINEERING MEASURE FOR IMPROVED RELIABILITY OF SOLID TANTALUM ELECTROLYTIC CAPACITORS
AD-425246 N64-27725 19-09

PRODUCTION ENGINEERING MEASURE TO INCREASE RELIABILITY OF SILICON TRANSISTORS
QPR-3 N64-27729 19-09

PRODUCTION ENGINEERING TECHNIQUES FOR IMPROVED RELIABILITY OF DIFFUSED SILICON CONTROLLED SWITCH
QPR-4 N64-29844 21-17

PRODUCTION ENGINEERING MEASURE FOR IMPROVED RELIABILITY OF SOLID TANTALUM ELECTROLYTIC CAPACITORS - YIELD, D-C LEAKAGE, AND FAILURE RATES
QPR-4 N64-29845 21-17

PRODUCTION ENGINEERING METHOD TO INCREASE SILICON TRANSISTOR RELIABILITY
REPT.-03-64-43 N64-33323 24-17

RELIABILITY THEORY
RELIABILITY THEORY - MACHINE AND SYSTEMS OPTIMIZATION APPLICATION
JPRS-21923 N64-10353 01-17

RELIABILITY AND MALFUNCTION DETECTION IN SYSTEMS CONTAINING OPERATING AND STANDBY MODULES
NASA-TT-F-9007 N64-27366 19-20

RELIABILITY THEORY - PROBABILITY THAT RANDOM TIME FUNCTION WILL NOT IN INTERVAL EXCEED LIMITATION THAT ENSURES NORMAL OPERATION OF SYSTEM
N64-30215 22-20

RELIABILITY ESTIMATE OF CERAMIC TUBULAR CAPACITORS
N64-32915 24-09

REMOTE CONTROL
PREDICTOR TO AID HUMAN OPERATOR IN REMOTE CONTROL OF VEHICLE OPERATING WITH SIGNAL TRANSMISSION LAG
NASA-TN-D-2229 N64-11993 03-22

EFFECTS OF TELEVISION AND DIRECT VIEWING ON REMOTE CONTROL OF MECHANICAL MANIPULATOR
AMRL-TDR-64-15 N64-18934 11-06

PERFORMANCE OF TELESCOPES, REMOTELY CONTROLLED TELESCOPE SYSTEM /RCTS/, SOLAR FLARE STUDIES AND CONSTRUCTION OF NEW OBSERVATORY FACILITIES
N64-19047 11-10

SYSTEMS FOR REMOTE CONTROL STABILIZATION OF FLYING BODIES N64-19229 11-04

REMOTE CONTROLLED CUP ANEMOMETER WITH HIGH FREQUENCY DATA UNIT FOR MEASURING WIND SPEED
N64-20214 13-15

DISTRIBUTED MULTICHANNEL COMMUNICATIONS SYSTEM FOR REMOTE CONTROL AND TELEMETRY
CERN-64-21 N64-20443 13-08

ELECTROMECHANICAL STEPPER FOR REMOTE CONTROL OF ELECTROMECHANICAL DEVICES
AD-431978 N64-21343 14-09

NOISEPROOF TRANSMISSION OF REMOTE CONTROL COMMANDS USING DUPLICATION AND STORAGE N64-24540 17-08

AUDITORY SIGNAL FOR FEEDBACK IN SIMPLE REMOTE CONTROL HANDLING TASKS
AMRL-TDR-64-46 N64-27433 19-14

RENAL FUNCTION
OF KIDNEY
MECHANISMS OF INTRARENAL HEMODYNAMIC CHANGES FOLLOWING ACUTE ARTERIAL OCCLUSION
CARI-63-22 N64-16574 08-16

CONTROL FEMALE ALBINO RATS POISONED BY NIOBIUM INJECTION TO MEASURE RENAL FUNCTION BY DILUTION TEST
UR-646 N64-19865 12-16

QUANTITATIVE MEASUREMENT OF FRACTIONAL RENAL BLOOD FLOW BY TRACER TECHNIQUES FOR EVALUATING RENAL ISCHEMIA
UCLA-12-523 N64-21215 14-16

EFFECTS OF INSECTICIDE ENDRIN ON RENAL FUNCTION & HEMODYNAMICS IN DOGS
CARI-63-26 N64-23700 16-16

RENDEZVOUS
SA EARTH MARS RENDEZVOUS TRAJECTORY
SA EULER-LAMBERT EQUATION
SA LUNAR ORBITAL RENDEZVOUS /LOR/
SA ORBITAL RENDEZVOUS
REVIEW OF LUNAR LANDING MISSIONS - EARTH ORBIT-, LUNAR ORBIT-, AND LIBRATION POINT RENDEZVOUS
R63SD52 N64-11203 02-29

SIMULATION OF RENDEZVOUS AND DOCKING SYSTEMS IN SPACE VEHICLE USING IBM 7090 COMPUTER PROGRAM
AMRL-TDR-63-100 N64-13719 04-29

HOHMANN TRANSFERS FOR MULTIPLE IN-PLANE ORBITAL RENDEZVOUS
SSD-TDR-63-179 N64-15120 07-29

FREQUENCY MODULATED-CONTINUOUS WAVE SENSOR FOR SPACECRAFT RENDEZVOUS AND LANDING
N64-16186 08-08

PRECISION RADAR FOR SPACECRAFT RENDEZVOUS AND DOCKING N64-16187 08-08

OPTICAL RADAR FOR SPACE RENDEZVOUS AND DOCKING
N64-16189 08-08

SIMULATION OF ORBITAL MOORING OF GEMINI SPACECRAFT AND AGENA ROCKET WITH DYNAMIC MODELS
N64-29263 21-33

OPTIMAL RENDEZVOUS STRATEGIES FOR COOPERATIVE CONTROLLED SYSTEMS
R-218 N64-30626 22-09

REPAIR
REPAIR WELDING OF HEAT-TREATED LOW ALLOY STEEL WITHOUT SUBSEQUENT HEAT TREATMENT & EFFECT ON MECHANICAL PROPERTIES
FTDM-3094 N64-13123 04-18

REPEATER
EFFICIENCY OF REPETITIVELY PULSED GAS FLOW PLASMA ENGINE AND OPERATION OF SINGLE-SHOT PLASMA ENGINE
NASA-CR-55771 N64-16027 07-27

MULTIPLE ACCESS CAPABILITY OF HARD-LIMITING COMMUNICATION SATELLITE REPEATER WITH SPREAD-SPECTRUM SIGNALS
IDA/HQ-64-2498 N64-30797 22-08

REPLACEMENT
REPLACEMENT OF MOTOR RESPONSES WITH VERBAL RESPONSES IN HUMAN PERFORMANCE
JPRS-27172 N64-33960 24-14

REPRODUCTION
RECOVERY OF REPRODUCTION CAPACITY OF X RAY IRRADIATED YEAST CELLS
JPRS-21619 N64-10118 01-16

CONTINUOUS PROPAGATION OF MICROORGANISMS - LIFE CYCLE STUDIES INVOLVING AGE DISTRIBUTION
N64-11436 02-16

MECHANISM OF REPRODUCTION /REDUPLICATION/ OF DESOXYRIBONUCLEIC ACID N64-18331 10-16

HANDBOOK ON TYPING NASA CONTRACTOR REPORTS FOR REPRODUCTION
NASA-SP-7007 N64-28073 20-14

STIMULATING EFFECT OF HIGH FREQUENCY ULTRASONICS ON YEAST CELL REPRODUCTION N64-32955 24-16

REPRODUCTIVE SYSTEM
COMPARATIVE BIOLOGICAL EFFECT OF FAST NEUTRONS AND X-RAYS UPON MOUSE REPRODUCTIVE SYSTEM
JPRS-21521 N64-10326 01-16

X-RADIATION EFFECTS ON LIFESPAN, & CARDIOVASCULAR AND REPRODUCTIVE SYSTEMS OF DOG
UCD-107 N64-12111 03-16

GAMMA RADIATION EFFECT ON THERMAL STRESS RESISTANCE AND REPRODUCTIVE SYSTEM IN RATS AND MAMMALS
AD-600960 N64-25308 17-16

EFFECT OF CONTINUOUS AND FRACTIONATED RADIATION DOSE ON REPRODUCTIVE SYSTEM - SPERM LIFESPAN, COUNT, ACTIVITY N64-25314 17-16

RESEARCH
S HIGH TEMPERATURE RESEARCH
S OPERATIONS RESEARCH

RESEARCH AIRCRAFT
AERODYNAMIC TESTS USING SPECIAL RESEARCH AIRCRAFT
N64-17019 09-10

RESEARCH FACILITY
REGIONAL RESEARCH CENTER FOR COMPUTER TECHNOLOGY AND RESEARCH IN BIOMEDICAL SCIENCES, LABORATORY INSTRUMENT COMPUTER EVALUATION PROGRAM
NASA-CR-53599 N64-19259 11-20

MANAGEMENT PLANNING FOR FUTURE SCIENCE RESEARCH FACILITIES N64-21606 15-01

HYPERTHERMAL RESEARCH FACILITY N64-25427 17-10

CONSTRUCTION AND INSTALLATION OF SHOCK TUBE FACILITY
AFCRL-64-657 N64-29304 21-10

SPACE VEHICLE LAUNCH OPERATIONS - RESEARCH, COMMUNICATIONS, AND COMPUTER PROGRAMMING
NASA-TM-X-51925 N64-29523 21-10

GAMMA RADIATION EXPOSURES RECEIVED BY PERSONNEL AT NUCLEAR RESEARCH FACILITY
AECL-2050 N64-32308 23-16

RESEARCH PROJECT
UNITED STATES NAVY RESEARCH PROJECTS AND TECHNOLOGICAL ADVANCES
ONR-16, VOL. 1 N64-15101 07-01

UNITED STATES NAVAL RESEARCH PROGRAM
N64-15103 07-01

MANAGEMENT OF SCIENTIFIC RESEARCH PROJECTS & THEIR STATUS AT RADIATION LABORATORIES
N64-15402 07-01

RESEARCH ON MANAGEMENT OF RESEARCH AND DEVELOPMENT PROGRAMS - BIBLIOGRAPHY
NASA-CR-55660 N64-15903 07-01

COMPUTER USE IN SPACE RELATED RESEARCH PROJECTS
NASA-CR-58180 N64-27894 20-01

RESEARCH PROJECTS IN MATERIAL SCIENCE, SOLID STATE PHYSICS, CHEMISTRY, ELECTRICAL ENGINEERING, CIVIL ENGINEERING, CHEMICAL ENGINEERING, AND MECHANICAL ENGINEERING
AR-4 N64-28765 20-25

HISTORY, FACILITIES, & RESEARCH PROJECTS OF ORGANIZATION FOR STUDY OF AERODYNAMICS, MATERIALS SCIENCE, FLIGHT MECHANICS, STRUCTURES, COMBUSTION, PROPULSION, AND MATHEMATICS N64-30477 22-10

ELECTRONIC RESEARCH PROJECTS - CIRCUITS, PLASMAS, RADIATION & PROPAGATION, ELECTRONICS, ELECTRON STREAMS & INTERACTIONS, COMPUTER THEORY & PROGRAMMING, AND SYSTEMS
AD-42u222 N64-31179 22-09

PHYSICS RESEARCH PROJECTS
UCRL-11466 N64-31324 22-23

RESEARCH PROGRAM PLANNING
ONR-ACR/MAR-27 N64-32217 23-10

PROGRAMS OF THE UNITED STATES AIR FORCE OFFICE OF AEROSPACE RESEARCH
AD-601009 N64-32267 23-01

AEROSPACE RESEARCH - NUCLEAR PHYSICS, AND PHYSICAL, MATHEMATICAL, ENGINEERING, ENVIRONMENTAL, AND LIFE SCIENCES
OAR-64-6 N64-32592 23-10

RESEARCH PROGRAMS ON NUCLEAR MAGNETIC RESONANCE, ATOMIC SPECTROSCOPY, LOW TEMPERATURE PHENOMENA, AND NUCLEAR STRUCTURE
AD-600874 N64-33265 24-23

GEOGRAPHIC DISTRIBUTION OF GOVERNMENT RESEARCH FUNDS AND INDIRECT COSTS RE FEDERAL GRANTS
N64-33516 24-01

RESEARCH REACTOR
SA BOILING WATER REACTOR
SA LIVERMORE POOL TYPE REACTOR /LPTR/
SA LOS ALAMOS MOLTEN PLUTONIUM REACTOR /LAMPRE/
SA LOS ALAMOS WATER BOILER REACTOR
FAST-PULSED SOVIET RESEARCH REACTOR
AID-P-64-40 N64-23023 16-23

RESIDUAL GAS
ELIMINATION OF FAILURE MECHANISMS BY RESIDUAL GASES IN TRAVELING-WAVE TUBES
RADC-TDR-63-423 N64-11542 03-09

OMEGATRON VERSUS SECTOR-TYPE MASS SPECTROMETER FOR RESIDUAL GAS STUDIES IN ULTRAHIGH VACUUM
AFCRL-63-386 N64-12284 03-15

ERROR IN URANIUM HEXAFLUORIDE ISOTOPIC RATIO MEASUREMENTS DUE TO IMPURITY OF RESIDUAL GASES IN ION INTERACTION
K-1400 N64-16017 07-23

RESIDUAL GAS EFFECTS ON DEGRADATION AND FAILURE IN TRAVELING-WAVE TUBES N64-20988 14-09

FAILURE MECHANISMS CAUSED BY RESIDUAL GASES IN TRAVELING WAVE TUBES
RADC-TDR-64-107 N64-21459 14-09

ANALYTICAL DETERMINATION OF RESIDUAL GAS IN BERYLLIUM
IR-1 N64-24504 17-07

CONTAMINATION OF REFRACTORY METALS AND ALLOYS BY RESIDUAL GASES IN HIGH VACUUM SYSTEMS
ORNL-3674 N64-28983 20-18

RESIDUE
RADIOISOTOPIC EVALUATION OF ORGANIC RESIDUE AND CONTAMINATION LEFT BY PROPRIETARY SOLVENTS
ADR-08-13-63.1 N64-22970 16-07

EFFECTS OF RESIDUAL ELEMENTS ON DUCTILITY AND TENSILE STRENGTH OF MARAGING STEELS
N64-24370 17-18

RESIN
SA EPOXY RESIN
SA ION EXCHANGE RESIN
SA PHENOL RESIN
SA PLASTIC
USE OF CATION EXCHANGE RESINS TO DETERMINE ASSOCIATION CONSTANTS OF CEROUS AND SULFATE IONS
LA-2513 N64-11290 02-07

VARIABLY CURING RESINS FOR MOUNTING METALLOGRAPHIC SAMPLES
ANL-6712 N64-11789 03-19

THERMOPLASTIC & THERMOSETTING RESINS FROM PHOSPHONITRILIC CHLORIDE TRIMER
TR-3 N64-14626 06-19

ADAPTATION AND EXTENSION OF INFRARED ABSORBANCE RATIO METHOD FOR ESTIMATION OF VACUUM DRIED FILMS OF NITROGEN RESIN MODIFIED PHTHALIC ALKYD RESINS
CCL-153 N64-16464 08-17

RESIN SYSTEMS FOR FILAMENT-WOUND STRUCTURES
REPT.-0627-VI-4 N64-16568 08-19

APPLICATION OF PYROLYTIC GAS CHROMATOGRAPHY TO ANALYSIS OF THERMOSETTING ACRYLIC RESINS
CCL-157 N64-17461 09-07

VACUUM SYSTEM AND DISTILLATION APPARATUS TO CONCENTRATE SOLUTIONS OF THERMAL DEGRADATION PRODUCTS RESULTING FROM GAMMA RADIATION IN RESINS
K-1594 N64-20481 13-07

CURED ORGANIC RESIN SYSTEMS FOR FILAMENT WOUND STRUCTURES
REPT.-0627-VI-5 N64-20541 13-19

FORMULATION AND CASTING OF POLYURETHANE RESINS
NASA-CR-56083 N64-20632 13-19

FATIGUE DESTRUCTION OF POLYAMIDE RESINS UNDER CONTACT STRESSES
FTD-TT-64-126/1&2&4 N64-21972 15-07

INTERLAMINAR SHEAR OF FILAMENT-WOUND REINFORCED PLASTICS
QPR-3 N64-22294 15-33

WINDING RESIN-BONDED GLASS FILAMENT AND TITANIUM ALLOY ROCKET MOTOR CASE
PWA-2336 N64-22721 15-27

INFRARED SPECTRA OF POLYMERS, RESINS, AND RELATED MATERIALS
ASD-TDR-63-712 N64-26320 18-07

NUCLEAR RADIATION EFFECTS ON MECHANICAL PROPERTIES OF ACETAL RESINS
NARF-63-18T N64-32579 23-19

RESIN BONDING
NUCLEAR RADIATION EFFECTS ON CERAMIC-BONDED, RESIN-BONDED, AND METAL-MATRIX-BONDED SOLID FILM LUBRICANTS
NARF-63-11T N64-29801 21-17

RESISTANCE
SA CONTACT RESISTANCE
SA CREEP RESISTANCE
SA FLOW RESISTANCE
SA FRACTURE RESISTANCE
SA HEAT RESISTANCE
SA MAGNETORESISTANCE
SA OXIDATION RESISTANCE
SA RADIATION RESISTANCE
CF ELECTRIC CONDUCTIVITY
CF ELECTRIC PROPERTY
CF IMPEDANCE
ZONE REFINING OF TUNGSTEN AND RESISTANCE MEASUREMENTS OF SINGLE CRYSTALS
Q-8-1973-3 N64-10242 01-10

RESISTANCE CHANGES IN GAUGES DURING STABILIZATION AND ATTACHMENT
ARL/SM-279 N64-10984 02-15

REPRESENTATION OF ALTERNATING-CURRENT PROSPECTING DATA AS APPARENT SPECIFIC RESISTANCE - GEOLOGICAL SURVEY N64-11493 03-23

TRANSFORMERLESS AND CANONICAL INDUCTANCE-CAPACITANCE, RESISTANCE-CAPACITANCE, AND RESISTANCE-INDUCTANCE LINEAR PASSIVE NETWORKS
AFCRL-63-506 N64-12288 03-09

ELECTRONIC FILTER WITH PARALLEL TUBE - DEPENDENCE OF COEFFICIENT OF FILTRATION ON GRID BIAS, CAPACITANCE, RESISTANCE, & VOLTAGE
N64-12737 04-09

INCREASED HOST RESISTANCE TO ACCELERATION STRESS - DRUGS, CONDITIONING, HYPOPHYSECTOMY, RETICULO-ENDOTHELIAL STIMULATION N64-13464 05-16

PRODUCTION OF TRIFLUORONITROSOMETHANE FOR CHEMICAL RESISTANCE IN ARCTIC TEMPERATURES - NITROSO RUBBER
RD-343-02 N64-14476 06-19

ELECTRICAL RESISTANCE HEATING SYSTEM FOR HEATING FOODS DURING AEROSPACE FLIGHTS
MR-1187-60 N64-16812 08-16

SKID ABRASION RESISTANT MATERIALS
A480 N64-17138 09-18

PERFORMANCE OF TWO TYPES OF RESISTANCE-HEATED HYDROGEN THRUSTORS - TUBULAR AND WIRE-COIL HEAT EXCHANGERS
NASA-TN-D-2281 N64-19293 11-27

REALIZATION OF TRANSFER FUNCTIONS OF RESISTANCE-CAPACITANCE TUNNEL DIODE NETWORKS
EE-574 N64-19871 12-09

EVALUATION OF RESISTANCE AND RADIANT HEATING METHODS FOR HIGH TEMPERATURE TENSILE TESTING
REPT.-9347 N64-22053 15-13

ALTERNATING CURRENT MEASUREMENT OF ELECTRODE DIFFERENTIAL CAPACITANCE AND RESISTANCE OF ELECTROCHEMICAL CELL FOR ELECTROLYSIS
T-1716 N64-24154 16-09

VACANCY FORMATION IN GOLD AT HIGH PRESSURE WITH RESISTIVE HEATING
NASA-TN-D-2371 N64-24821 17-25

ELECTRONIC EQUIPMENT - PNEUMOAUTOMATIC RELAY, AMPLIFIER, RESISTANCE, AND CAPACITOR
JPRS-24950 N64-25854 18-17

TUNABLE RESISTANCE-CAPACITANCE NULL NETWORKS
AD-406998 N64-27173 19-09

DEFORMATION AND RESISTIVITY OF IRON AND IRON-CARBON ALLOYS
PR-14 N64-30475 22-18

VOLTAGE-CURRENT MEASUREMENTS OF XENON FLASHTUBES FOR DYNAMIC RESISTANCE CHARACTERISTIC DATA
RADC-TDR-64-294 N64-30941 22-09

INCREASED RESISTANCE IN NICKEL ALLOYS BY ADDING ALUMINUM, BORON, TUNGSTEN, AND MOLYBDENUM
NASA-TT-F-9100 N64-31332 22-18

DIGITAL METHOD FOR RESISTANCE MEASUREMENT
NASA-TN-D-2003 N64-31728 23-13

EFFECTS OF NONLINEAR ACTIVE RESISTANCES ON DIRECT CURRENT N64-31858 23-09

VACUUM & NUCLEAR RADIATION EFFECTS ON RESISTANCE OF ENGINEERING MATERIALS FOR SPACE VEHICLES & REACTOR ACCESSORY HARDWARE
NASA-RP-349 N64-33987 24-17

RESISTANCE DEVICE
NEGATIVE RESISTANCE OF TUNNEL DIODES N64-12735 04-09

SOLID STATE MICROWAVE GENERATORS - NEGATIVE RESISTANCE AND CURRENT GAIN
REPT.-5 N64-29419 21-09

RESISTANCE THERMOMETER
CF BOLOMETER
MULTIRANGE AUTOMATIC BRIDGE AND POTENTIOMETER WITH MEASURING SYSTEM FOR RESISTANCE THERMOMETER AND THERMOCOUPLE GROUPS N64-13581 05-15

HIGH TEMPERATURE, THIN FILM RESISTANCE THERMOMETER FOR HEAT TRANSFER MEASUREMENTS
NASA-CR-26 N64-17988 10-15

NONLINEAR ANALOG NETWORK FOR CONVERTING SURFACE TEMPERATURE TO HEAT FLUX - USE WITH THIN FILM RESISTANCE THERMOMETERS
CAL-130 N64-18176 10-15

TEMPERATURE MEASUREMENT WITH PLATINUM RESISTANCE THERMOMETER
FTD-TT-64-83/164 N64-25461 17-13

RESISTIVITY
DEEP RESISTIVITY MEASUREMENTS IN NORTHERN NEW YORK STATE
AFCRL-63-385 N64-11183 02-12

EVALUATION OF DIFFUSED TRANSISTOR, ALUMINUM WIRE, AND DOUBLE-COATING AND EXPOSURE OF PHOTORESISTANT MATERIAL N64-13231 04-17

PREPARATION OF WATER RESISTOR WITH LOW TEMPERATURE RESISTANCE COEFFICIENT FROM ELECTROLYTIC SOLUTIONS
SC-4794/RR/ N64-15249 07-09

GEOLOGIC EXPLORATION BY DIRECT CURRENT RESISTIVITY AND CONDUCTIVITY MEASUREMENTS N64-15413 07-23

RESISTIVE CELL STUDIES, COARSE-GRAIN-COMPOSITE STRENGTH & CONDUCTIVITY, FINE-GRAIN-COMPOSITE PREPARATION, AND DESIGN OF SMALL LIQUID METAL CELL N64-15625 07-09

THEORETICAL CORRECTIONS FOR DETERMINING RESISTIVITY CHANGE OF METALS CAUSED BY ELECTRON BOMBARDMENT
AFCRL-64-2 N64-16867 08-23

RESISTIVITY OF NICKEL ALLOY WIRE IN ZERO MAGNETIC FIELD AT CRYOGENIC TEMPERATURES
AD-434386 N64-18780 11-23

VACANCY INTERACTION ENERGIES IN SILVER WIRE FROM ELECTRICAL RESISTIVITY INCREASE
FTD-TT-63-124/162 N64-19181 11-25

FINITE RESISTIVITY INSTABILITIES OF SHEET PINCH WITH FIRST ORDER GYRATION RADIUS CORRECTIONS
MATT-258 N64-22117 15-23

PHOTORESISTANCE PLATES FROM POWDERED CADMIUM SULFIDE N64-24565 17-23

RESISTIVITY AND SEEBECK COEFFICIENT MEASUREMENTS ON LIQUID THERMOELECTRIC MATERIALS
REPT.-3 N64-26678 18-25

RESISTIVITY AND HALL EFFECT IN LIQUID METALS
AD-439050 N64-27174 19-25

IMPURITY EFFECTS ON RESISTIVITY RECOVERY SPECTRUM OF COLD WORKED CADMIUM
TR-6 N64-30678 22-18

RESISTIVITY CHANGES DURING QUENCHING OF DILUTE BINARY GOLD ALLOYS OF SILVER AND INDIUM N64-30792 22-25

RESISTIVITY AND SEEBECK COEFFICIENT OF LIQUID INORGANIC SULFIDE SYSTEMS
AD-604984 N64-31305 22-25

RESISTOJET ENGINE
WIRE COIL HEAT EXCHANGER RESISTOJET ENGINE - CONTACT EFFECTS BETWEEN BORON NITRIDE INSULATION AND TUNGSTEN HEATER ELEMENTS
AIAA PAPER-64-672 N64-28357 20-27

RESISTOJET THRUSTOR FOR ELECTROTHERMAL ENGINE
NASA-CR-54104 N64-31011 22-27

RESISTOR
BIBLIOGRAPHY - VACUUM-DEPOSITED THIN FILM CONDUCTORS, CAPACITORS, RESISTORS, & CONNECTORS
SB-63-15 N64-13075 04-09

PRECISION VOLUME CERAMIC RESISTOR
AD-426117 N64-14034 05-19

CARBON RESISTORS FOR CRYOGENIC LIQUID-LEVEL MEASUREMENT
NASA-CR-55333 N64-14272 06-15

FAILURE MECHANISM STUDY USING NICKEL ALLOY FILM RESISTOR
RADC-TDR-63-431 N64-15074 07-09

PREPARATION OF WATER RESISTOR WITH LOW TEMPERATURE RESISTANCE COEFFICIENT FROM ELECTROLYTIC SOLUTIONS
SC-4794/RR/ N64-15249 07-09

ALUMINUM OXIDE AS POROUS SUBSTRATE FOR METAL FILM RESISTORS
AD-433270 N64-17630 09-09

MEASUREMENT OF TRANSIENT RADIATION EFFECTS ON CAPACITORS, RESISTORS, CONNECTORS, AND COAXIAL CABLES N64-19034 11-23

FAILURE MECHANISMS IN METAL FILM RESISTORS N64-20971 14-09

ACCELERATED AND CONSTANT STRESS TESTING FOR FAILURE ANALYSIS OF FILM RESISTORS AND PLANAR TRANSISTORS N64-20979 14-09

AGING MECHANISMS IN METAL FILM RESISTORS N64-20987 14-25

DISTANCE MATRIX AND SYNTHESIS OF N-PORT RESISTIVE NETWORKS
ARDD-3298-9 N64-21238 14-09

CONFORMAL TRANSFORMATION IN SYNTHESIS OF LOSSLESS TWO-PORT COUPLING NETWORK
TR-7 N64-24079 16-09

RELIABLE, LOW COST, STABLE GENERAL PURPOSE RESISTORS
OR-3 N64-25585 17-09

POROUS SUBSTRATE RESISTOR AIMED AT MINIATURIZATION OF METAL-FILM RESISTORS
IDR-7 N64-26196 18-09

MONTE CARLO CODE FOR DESCRIBING TIME-DEPENDENT PHOTON TRANSPORT IN RESISTORS & CAPACITORS UNDER TRANSIENT GAMMA RADIATION EFFECT
AFWL-TDR-64-37 N64-26208 18-23

PRODUCTION METHODS FOR RESISTORS, USING RESISTIVE FILMS
AD-600753 N64-26617 18-17

THEORY, CONSTRUCTION, AND APPLICATIONS OF ELECTRIC WIRE RESISTANCE STRAIN GAUGES
FTD-TT-63-730/162 N64-27088 19-15

MODELING OF LOGARITHMIC AND EXPONENTIAL FUNCTIONS WITH NONLINEAR SEMICONDUCTOR RESISTORS N64-29138 21-15

NONLINEAR RESISTIVE, PHOTOCONDUCTIVE, AND

ELECTROLUMINESCENT LAYERS FOR CROSSED GRID DISPLAY
GE/EE/63-2 N64-31151 22-09

EVALUATION OF DIELECTRIC FILMS, THIN FILM FIELD EFFECT TRANSISTORS, AND TUNGSTEN RESISTORS PRODUCED BY CATHODOLYSIS
AFSC-TR-7-857 /V/ N64-31230 22-25

GERMANIUM AND SILICON TRANSISTOR-LIKE DEVICES - RESISTORS, DIODES, AND TRANSISTORS
REPT.-16 N64-32207 23-09

FABRICATION, RANGES, AND TEMPERATURE COEFFICIENTS OF RESISTORS USING PALLADIUM AND SILVER DISPERSED IN CERAMIC MATRIX
IDR-5 N64-32618 23-17

PRECISION VOLUME RESISTORS - NICKEL POWDERS AND COPPER-NICKEL POWDERS
IDR-4 N64-32625 23-25

RESOLUTION
PHOTO INTERPRETATION PERFORMANCE AS FUNCTION OF PHOTOGRAPHIC RESOLUTION AND CONTRAST
N64-10529 01-14

HEIGHT RESOLUTION OF RADIATION FROM EXTERNALLY VIEWED ATMOSPHERE BASED ON TRANSFER EQUATION
N64-10918 02-21

ROLE OF SIZE AND RESOLUTION OF DESIRED MAP IN RECORDING REQUIREMENT OF SYNTHETIC ARRAY DATA
SSD-TDR-63-224 N64-12271 03-15

HIGH RESOLUTION SYSTEM FOR LUNAR AND PLANETARY LANDING SITE SELECTION N64-16185 08-08

RESOLUTION OF LINEAR ANTENNA ARRAY
AFCRL-63-539 N64-17126 09-09

SEQUENTIAL DETECTION METHOD FOR MULTIPLE-RESOLUTION-ELEMENT RADAR
NEL-1201 N64-17363 09-08

ANALYSIS OF HIGH RESOLUTION SPECTROGRAM - COMPOSITION OF MARS ATMOSPHERE
NASA-CR-53573 N64-18454 10-05

PULSE COMPRESSION TECHNIQUES FOR RADARS WITH HIGH RESOLUTION CAPABILITIES AT LONG RANGES
TDR-169/3250-43/TN-1 N64-22492 15-08

GAMMA RAY DETECTION EFFICIENCY AND IMAGE RESOLUTION IN SODIUM IODIDE N64-22859 16-23

FIELD SPECTROGRAPH FOR HIGH RESOLUTION SPECTRAL ANALYSIS OF ROCKET EXHAUST PLUMES FOR AEROSPACE VEHICLE DETECTION N64-23009 16-15

HIGH RESOLUTION RANGE COUNTER N64-24860 17-09

RESOLUTION CAPABILITIES OF OFF-AXIS DETECTOR ELEMENTS IN PARABOLIC OPTICAL SYSTEMS
REPT.-2900-475-T N64-24884 17-06

MATHEMATICS FOR RADAR RESOLUTION STUDIES AND ANALYSIS OF CON-SCAN TRACKING SYSTEM
REPT.-00.460 N64-24984 17-08

RADAR ACCURACY AND RESOLUTION IN MULTIPLE-SIGNAL ENVIRONMENT
SEL-63-151 N64-25651 17-08

GENERALIZED THEORY OF RESOLUTION FOR ANTENNA ARRAYS
AFCRL-64-421 N64-26244 18-08

MEASUREMENT OF STIMULUS COMPLEXITY IN HIGH RESOLUTION SENSOR IMAGERY
AMRL-TDR-64-29 N64-26960 18-14

HIGH RESOLUTION SCANNING DEVICE FOR PHOTOGRAPHS TO GIVE TELEVISION SIGNALS
RB-64-33 N64-28465 20-08

INFORMATION MATRIX AND EQUIVALENT LINEAR MODEL FOR INVESTIGATING ACCURACY AND RESOLUTION OF RADAR SIGNALS
AD-601986 N64-32063 23-08

RESOLVER
BOOSTERLESS RESOLVERS USED IN COMPUTING CHAINS - AEROSPACE APPLICATIONS N64-31487 23-17

OBTAINING DIGITAL SHAFT ANGLE DATA FROM RESOLVERS AND SYNCHROS N64-31489 23-17

HIGH ACCURACY SINGLE SPEED RESOLVERS & SYNCHROS - ACCURATE DATA TRANSMISSION N64-31505 23-17

RESONANCE
EFFECTS OF NONLINEAR RESPONSE OF PLASMA ELECTRON DISTRIBUTION IN RESONANCE WITH OSCILLATING PROBE POTENTIAL
NUP-63-14 N64-10012 01-23

ENERGY TRANSFER EFFICIENCY OF RESONANT DISCHARGE CIRCUIT, AND ASSESSMENT OF KINETIC ENERGY OF GAS
N64-10144 01-27

MEASUREMENT OF EARTH MAGNETIC FIELD COMPONENTS BY PROTON RESONANCE METHOD N64-10163 01-12

CORRELATION OF RESONANCE & INELASTIC THRESHOLD INVOLVING UNSTABLE PARTICLES
NUP-63-13 N64-10311 01-23

RESONANCE THEORY OF CHEMICAL REACTION RATES
JPRS-21897 N64-10518 01-07

ELECTRON CYCLOTRON RESONANCE OBSERVED BY RESONANCE PROBE APPLIED TO PLASMA IN MAGNETIC FIELD
IPPJ-15 N64-11249 02-24

GEOMAGNETIC FIELD MEASUREMENT BY PROTON RESONANCE METHOD - GEOLOGICAL SURVEY N64-11485 03-12

ELECTRON NUCLEAR DOUBLE RESONANCE METHOD FOR DETERMINING INTERACTION OF EUROPIUM ION IN CALCIUM FLUORIDE WITH FLUORINE NUCLEI
AFCRL-63-502 N64-11935 03-23

AGE OF FISSION NEUTRONS TO INDIUM RESONANCE ENERGY IN WATER
NAA-SR-8621 N64-11956 03-23

NONUNIFORM MAGNETOSTATIC FIELD EFFECT ON NONRECIPROCAL TRANSMISSION PROPERTIES OF MAGNETO-PLASMA RESONANCE ISOLATOR
RADC-TDR-63-435 N64-12209 03-24

INFLUENCE OF RESONANCE TRANSFER ON LUMINESCENCE DECAY
SSD-TDR-63-301 N64-12614 04-23

NONLINEAR RESPONSE OF ELECTRON DISTRIBUTION IN PHENOMENA OF RESONANCE PROBE
NUP-63-15 N64-13003 04-24

RESONANT PHENOMENA IN STRANGE PARTICLE PRODUCTION
R-363 N64-13174 04-23

DETERMINATION OF CHARACTER OF HIGHER RESONANCES IN PION-PHOTOPRODUCTION AND PROTON COMPTON EFFECT BY USING POLARIZED GAMMA RAYS
LNF-63/66 N64-13176 04-23

SYNCHRONOUS PARTICLE INJECTION AND STORAGE RING CAUSING RESONANCE IN RADIAL OSCILLATIONS OF BETATRON
LNF-63/74 N64-14450 06-23

ANOMALIES IN BEHAVIOR OF GAMMA-RAY RESONANCES INDUCED BY HYDROGEN MOLECULAR ION & PROTON BEAMS
NRL-5897 N64-14505 06-23

RESONANCES IN SCATTERING THEORIES OF NUCLEAR REACTIONS
KFKI-1467 N64-15919 07-23

EVIDENCE FOR EXISTENCE OF RESONANCE WITH CERTAIN QUANTUM NUMBERS N64-15920 07-23

SOLID STATE PHYSICS RESEARCH - LASERS, SEEBECK COEFFICIENT, MATERIALS, SPECTROSCOPY, & MAGNETISM AND RESONANCE
ESD-TDR-63-584 N64-16868 08-25

DETERMINATION OF SPEED AND SEPARATION DURING

DOCKING OF SPACE VEHICLES - METHODS USING DOPPLER EFFECT, MOSSBAUER EFFECT, & ATOMIC RESONANCE
R63SD314 N64-16913 09-22

ELECTROMAGNETIC RESONANCE IN SMITH-PURCELL EFFECT OF LIGHT RADIATION
PIBMRI-1198-63 N64-17308 09-23

RESONANCES AND WAVES IN IONIZED PLASMAS IN STRONG MAGNETIC FIELDS N64-17355 09-24

PLASMA OSCILLATION - LANDAU DAMPING AND RESONANT ENERGY ABSORPTION
NASA-CR-53177 N64-17580 09-23

BOOTSTRAP APPROXIMATION TO PREDICT PI-ETA MESON RESONANCE
UR-875-5 N64-19486 12-23

CORRELATION OF SINUSOIDAL RESONANCE DWELL AND INCREASED-TIME SWEEP CYCLING TESTS - FATIGUE TESTING N64-20252 13-33

MICROWAVE RESONANCE PROPERTIES OF SINGLE CRYSTAL FERRITES WITH UNIAXIAL ANISOTROPY
USAELRDL-TR-2384 N64-20448 13-25

CRYSTALLINE BINDING EFFECTS ON DOPPLER BROADENING NEUTRON RESONANCE IN TUNGSTEN
BNL-860/T-344/ N64-22225 15-25

EXCITATION RESONANCE IN HELIUM ION-ATON COLLISIONS N64-22367 15-24

RESONANCE ABSORPTION SPECTROPHOTOMETRY OF HYDROGEN ATOM BEHIND SHOCK WAVES
NASA-CR-56290 N64-22481 15-11

QUANTUM THEORY OF COVALENT BONDING AND ANALYSIS OF RESONANCE THEORY N64-22878 16-23

STABILITY AND RESONANCE OF SYMMETRIC MISSILES
CARDE-TN-1599 N64-26047 18-02

GENERATION OF BARYONS & RESONANCES IN BROKEN UNITARY SYMMETRY
TH-62 N64-26565 18-23

FERRIMAGNETIC RESONANCE RELATIONS FOR MAGNETIC CRYSTALLINE ANISOTROPY IN CUBIC CRYSTALS
AFCRL-64-72 N64-27423 19-25

RESONANCES IN ELASTIC SCATTERING CROSS SECTION OF ELECTRONS ON HELIUM, NEON, KRYPTON, AND XENON
TR-24 N64-27792 19-23

ESCAPE PROBABILITY APPROXIMATIONS IN LUMPED RESONANCE ABSORBERS
NAA-SR-9744 N64-28129 20-23

METHODS FOR DETERMINATION OF SPIN AND EQUALITY OF RESONANCES
CERN-64-33 N64-28641 20-23

RESONANT INTERACTION OF VERTICALLY POLARIZED PLANE ELECTROMAGNETIC WAVES WITH THIN PLASMA SLABS
NASA-TN-D-2476 N64-29452 21-24

ELECTRIC RESONANCE OF HYDROGEN SULFIDE AT MICROWAVE FREQUENCIES
OR-3959 N64-30014 21-25

OPTIMUM SHAPE OF SYMMETRICAL BEAM FOR MAXIMUM FUNDAMENTAL FREQUENCY-TO-MASS RATIO
SM-47674 N64-31185 22-34

RESONANCE MODES AT DEFECTS IN CRYSTALLINE QUARTZ
AFCRL-64-597 N64-31821 23-25

GYROMAGNETIC RATIO DETERMINATION OF EVEN ISOTOPES OF CADMIUM AND MERCURY BY HIGH FIELD DOUBLE RESONANCE
NASA-RP-332 N64-32430 23-23

RESONANCE OF NONLINEAR OSCILLATOR BY DUFFING EQUATION
ARDD-4105-7 N64-32808 24-23

NEW COLLECTIVE RESONANCE IN FREE-ELECTRON META -

POTASSIUM N64-33454 24-25

RESONANCE EFFECT
RESONANCE EFFECT OF SPHERIC INERTIA ON VEHICLE ROTATING AROUND SPHERICAL PLANET
MH-TRANS-431 N64-11575 03-29

ION BEAM NEUTRAL COMPONENT DETERMINATION BY RESONANCE RADIATION ABSORPTION
AIAA PAPER-64-9 N64-14157 05-23

MILLIMETER-WAVE AMPLIFICATION PRODUCED BY RESONANCE ABSORPTION OF GAS
RADC-TDR-63-562 N64-18363 10-09

RESONANT FREQUENCY
INFLUENCE OF RESONANCE TRANSFER ON LUMINESCENCE DECAY
SSD-TDR-63-301 N64-12614 04-25

MULTIPLE COHERENT SCATTERING OF OPTICAL RESONANCE RADIATION APPLIED TO MERCURY
E-T-F-63-2 N64-12860 04-23

RESONANT FREQUENCIES AND DAMPING RATIO FOR COMPARTMENTED CYLINDRICAL TANKS
NASA-CR-55947 N64-17674 09-11

EFFECT OF ANESTHESIA, HIGH OXYGEN AND FEEDING ON RESONANT FREQUENCIES OF VISCERAL ORGANS
AMRL-TDR-64-14 N64-22328 15-16

RESONANT FREQUENCY FOR COMPRESSIBLE FLOW PAST OSCILLATING MODEL IN WIND TUNNEL
ARC-R&M-3371 N64-26521 18-10

MOLECULAR FREQUENCY STANDARD BASED ON MOLECULAR RESONANT SPECTRAL LINES
AD-431030 N64-26853 18-23

GYRORESONANT RADIATION AND ABSORPTION IN EQUILIBRIUM MAGNETOACTIVE PLASMA N64-27156 19-24

STRUCTURAL VIBRATION CHARACTERISTICS AND RESONANT FREQUENCIES FOR HYDROFOIL CONFIGURATIONS
AD-602544 N64-28286 20-33

ELECTRIC CONDUCTIVITIES IN ROCK MEDIA DEDUCED FROM QUARTER-WAVE RESONANT FREQUENCIES OF INSULATED MONOPOLE ANTENNA SYSTEMS
AFCRL-64-99 N64-29245 21-12

MODIFICATION OF ELECTROMAGNETIC SCATTERING CROSS SECTIONS IN RESONANT REGION
AFCRL-64-727/I/ N64-31813 23-08

RESONANT MODES OF LASER CAVITY HAVING END MIRRORS WITH PERIODIC REFLECTIVITY
AFCRL-64-355 N64-32206 23-23

RESONANT VIBRATION
RESONANT VIBRATIONS IN LONGITUDINALLY STIFFENED CIRCULAR CYLINDRICAL SHELLS N64-10823 02-33

RESONANCE IN NONLINEAR OSCILLATING-INTEGRATING HAMILTONIAN SYSTEM
FTD-MT-63-112 N64-18762 11-23

RESONATOR
SA ELECTRON TUBE
SA MAGNETRON
SIMPLIFYING THEORY OF OPTICAL RESONATORS TO ANALYZE COMPLEX CAVITIES - LASER THEORY
AD-423698 N64-12993 04-25

LOW FREQUENCY CRYSTAL APPARATUS AND RESONATORS FOR RADIATION AND RELIABILITY STUDIES
AD-426953 N64-14120 05-09

X-RAY DIFFRACTION ANALYSIS OF PULSED RADIATION EFFECT ON AGING OF QUARTZ CRYSTAL RESONATORS
AD-415412 N64-14121 05-09

LINEAR-BEAM MICROWAVE TUBES & RESONATORS
RADC-TDR-63-518, VOL. 2 N64-16142 08-09

EXPERIMENTAL DESCRIPTION OF L-BAND SLOW-WAVE RING-ROD RESONATOR

EE-577 N64-16143 08-09

MULTIMODE OSCILLATIONS IN SOLID STATE MASERS
AFCRL-63-917 N64-18023 10-25

TRANSMISSION CHARACTERISTICS OF MAGNETOPLASMA RESONANCE ISOLATOR
RADC-TDR-64-92 N64-19205 11-24

ANALYSIS OF MULTIREFLECTOR OPTICAL RESONATORS USING GEOMETRICAL OPTICS AND SELF-CONSISTENT FIELD TECHNIQUES
AFCRL-64-161 N64-20087 13-25

ELECTROMAGNETIC FIELDS IN OPTICAL RESONATORS INVOLVING FOCUSING ELEMENTS
AFCRL-63-933 N64-20173 13-25

AGING EFFECTS ON QUARTZ CRYSTAL RESONATORS
QR-3 N64-22204 15-25

RING RESONATOR TESTING OF HIGH POWER RADIO FREQUENCY WAVEGUIDE WINDOWS
RADC-TDR-63-32 N64-22269 15-09

NOISY ELECTRON BEAM OF EXCITED RESONATOR
N64-23796 16-08

BROADENING OF NOISE ATTENUATION IN QUADRUPOLE AMPLIFIER WITH AID OF UNCOUPLED RESONATORS AT INPUT N64-23797 16-08

DESIGN AND PRODUCTION OF HIGH PRECISION QUARTZ RESONATORS
AD-601524 N64-24934 17-17

PNEUMATIC AMPLIFIER NOISE REDUCTION BY JET-EDGE AND RESONATOR COUPLING N64-25262 17-11

ENERGY TRAPPING THEORY FOR MULTIELECTRODE RESONATOR DESIGN - VERY HIGH FREQUENCY FILTER CRYSTAL DEVELOPMENT
QR-3 N64-27696 19-09

AGING EFFECTS ON LOW FREQUENCY QUARTZ CRYSTAL RESONATORS
QR-4 N64-27949 20-25

VACUUM DEPOSITION OF ALUMINUM AND POLISHING MACHINE FOR QUARTZ CRYSTAL RESONATOR FABRICATION
REPT.-2 N64-28151 20-17

IMPROVED TEMPERATURE CHARACTERISTICS OF CRYSTAL UNITS TO COMPENSATE A-T ORIENTATED RESONATOR
SCL-6609 N64-29397 21-09

NONSTATIONARY PROCESS IN WAVEGUIDE RESONATORS
N64-29464 21-09

INCREASED QUARTZ RESONATOR RELIABILITY THROUGH REDUCTION OF FREQUENCY-AGING AND FAILURE RATE
QR-5 N64-29820 21-25

MODE STRUCTURE OF LASER AND VECTOR WAVE EQUATION FOR ROTATIONAL FIELDS IN SPHERICAL MIRROR RESONATORS
AFOSR-64-1311 N64-29837 21-23

CRYSTAL RESONATORS FOR OSCILLATOR AND FILTER
AD-602840 N64-30788 22-09

ELECTROMAGNETIC PROPAGATION MODES IN ANISOTROPIC PLASMAGUIDES AND RESONATORS
AL-TDR-64-157 N64-30981 22-24

ACOUSTIC LOSSES IN RESONATOR WITH STEADY GAS FLOW
REPT.-1142 N64-32246 23-23

RESORCINOL
POLAROGRAPHIC STUDY OF OXIDATION INHIBITORS - NITRODIPHENYLAMINES AND NITRORESORCINOLS
RK-TR-63-26 N64-18191 10-07

RESPIRATION
SA ASPHYXIA
SA INHALATION
SA OXYGEN METABOLISM
SA PRESSURE BREATHING
EFFICIENCY OF RESPIRATION AS ENERGY SOURCE IN THERMOPHILIC PLANT
JPRS-21501 N64-10067 01-16

CEREBRAL HYPOXIA IN RESPONSE TO GRAVITY EFFECT WHILE BREATHING OXYGEN
JPRS-21984 N64-10388 01-16

EFFICIENCY REQUIREMENTS FOR ARTIFICIAL RESPIRATION SYSTEM
JPRS-20662 N64-10594 01-15

RESPIRATION AND ENERGY TRANSFORMATION IN LIVING ORGANISMS N64-10797 02-16

OXYGEN CONSUMPTION AND CATECHOLAMINE RELEASE FROM ADRENAL SLICES AND RATE OF RESPIRATION
SAM-TDR-63-50 N64-12835 04-16

RELATIONS BETWEEN OXIDATION, RESPIRATION, LIGHT INTENSITY, AND OXYGEN PRODUCTION IN GREEN PLANTS
N64-13370 04-16

DEVICE FOR MEASUREMENT OF RADON IN BREATH
UR-640 N64-17466 09-16

RESPIRATORY REQUIREMENTS FOR GAS MIXTURES IN MANNED SPACE CAPSULES
NAEC-ACEL-518 N64-17659 09-16

BREATH HOLDING METHODS OF STUDYING CARBON DIOXIDE, OXYGEN TENSION, AND EFFECTS OF ALTITUDE ACCLIMATIZATION ON RESPIRATION N64-17936 10-16

ABSORPTION OF INERT GASES FROM SUBCUTANEOUS GAS POCKETS IN RATS DURING RESPIRATION
N64-17947 10-16

EFFECT OF PROLONGED OXYGEN RESPIRATION ON TASTE SENSITIVITY N64-23695 16-16

AIRWAY RESISTANCE IN NORMAL RESPIRATION MEASURED BY VOLUME DISPLACEMENT PLETHYSMOGRAPH
SAM-TDR-64-17 N64-29988 21-16

EFFECT OF ROTATIONAL STIMULUS ON HUMAN RESPIRATION
T-84-J N64-33496 24-16

RESPIRATORY PHYSIOLOGY
HUMAN TOLERANCE - RESPIRATORY IMPAIRMENT FROM FORWARD ACCELERATION N64-13460 05-16

RESPIRATORY PHYSIOLOGY DURING FORWARD ACCELERATION AND PROTECTIVE MEASURES N64-13461 05-16

RELATIVISTIC EFFECT, USE, AND RESPIRATORY PHYSIOLOGY OF MUSCLE RELAXANTS
JPRS-22995 N64-14074 05-16

RESPIRATORY SYSTEM
SA CARDIORESPIRATORY SYSTEM
EFFICIENCY REQUIREMENTS FOR ARTIFICIAL RESPIRATION SYSTEM
JPRS-20662 N64-10594 01-15

PHYSIOLOGY OF DOG RESPIRATORY AND CARDIOVASCULAR SYSTEMS DURING STRESS OF ACCELERATION
N64-11699 03-16

REGENERATION OF CARBOHYDRATES IN CLOSED CIRCUIT RESPIRATORY SYSTEM
NASA-CR-52972 N64-11801 03-16

RESPONSE OF ANIMAL CARDIOVASCULAR AND RESPIRATORY SYSTEMS TO HIGH ALTITUDE FLIGHT
N64-11853 03-16

RESPIRATORY PHYSIOLOGY OF VIBRATIONS OF VOCAL CORDS FROM TRACHEAL OUTER WALL VIBRATIONS
E-T-J-63-4 N64-12277 03-23

METHOD OF INFLICTING BURNS ON RESPIRATORY TRACT
N64-12770 04-16

OXYGEN DECOMPRESSION SICKNESS RESULTS ON RATS APPLIED TO HUMAN RESPIRATION PHYSIOLOGY
N64-15042 07-16

REACTION OF CIRCULATION, RESPIRATION, AND METABOLIC FUNCTIONS TO CHANGING CLIMATE AT HIGH

ALTITUDE N64-15046 07-16

CARDIORESPIRATORY RESPONSES OF ANESTHETIZED DOGS TO COMPRESSION THERAPY FOLLOWING EXPERIMENTAL DECOMPRESSION SICKNESS
SAM-TDR-63-94 N64-15744 07-16

CANCELLATION OF RESPIRATION EFFECTS ON TRANS-THORACIC IMPEDANCE
SAM-TDR-63-99 N64-15745 07-16

FUNCTIONS OF CIRCULATORY, RESPIRATORY, & NERVOUS SYSTEMS IN HUMAN BODY
AMRL-TDR-63-105 N64-16807 08-16

RESPIRATORY PHYSIOLOGY AND PULMONARY CIRCULATION
AMRL-TDR-63-103/1/ N64-17926 10-16

VELOCITY OF MUSCLE CONTRACTION IN RESPIRATORY SYSTEM AIRFLOW N64-17928 10-16

GASEOUS ENVIRONMENT AND ATELECTASIS - RESPIRATORY PHYSIOLOGY N64-17955 10-16

RESPIRATORY PHYSIOLOGY AND GAS EXCHANGE IN WATER MEDIUM N64-17956 10-16

DESIGN AND FABRICATION OF MASK AND HELMET FOR CHIMPANZEE RESPIRATORY SYSTEM RESEARCH
ARL-TDR-64-3 N64-21311 14-16

CIRCULATING DEVICE FOR CLOSED CIRCUIT RESPIRATORY SYSTEM
AMRL-TDR-64-8 N64-21433 14-16

RESISTANCE OF MICE TO RESPIRATORY INFECTION AFTER EXPOSURE TO ALTITUDE OF 35,000 FEET - SPACE CABIN ENVIRONMENT
SAM-TDR-64-9 N64-22506 15-16

MAXIMUM PRESSURE-VOLUME RELATIONSHIPS IN HUMAN RESPIRATORY SYSTEM
SAM-TDR-64-21 N64-25338 17-16

EFFECTS OF COMPRESSIBILITY OF ALVEOLAR GAS ON DYNAMICS OF BREATHING CYCLE - RESPIRATORY PHYSIOLOGY
SAM-TDR-63-71 N64-26653 18-16

RESPONSE
$ CONDITIONED RESPONSE
$ FREQUENCY RESPONSE
$ HEMODYNAMIC RESPONSE

RESTRAINT
BIOMEDICAL RESEARCH IN ACCELERATION, IMPACT, WEIGHTLESSNESS, VIBRATION, AND EMERGENCY ESCAPE AND RESTRAINT SYSTEM - BIBLIOGRAPHY
CARI-63-30 N64-22711 15-16

RESUSCITATION
RESUSCITATION OF AN ORGANISM FROM CLINICAL DEATH
JPRS-20013 N64-10800 01-16

CHANGES IN MORPHOLOGY OF BLOOD IN ATHLETES AFTER UNDERWATER SUBMERSION - RESUSCITATION OF DOGS AFTER DEATH BY ELECTRIC TRAUMA
JPRS-18855 N64-10867 02-16

CARDIAC ARREST & RESUSCITATION
JPRS-22010 N64-11225 02-16

LONG-RANGE CONSEQUENCES OF ACUTE CARDIAC ARREST IN SUCCESSFULLY RESUSCITATED PATIENTS
JPRS-22012 N64-11226 02-16

BLOOD SUBSTITUTION AND OXIDATION OF INTERMEDIATE METABOLIC PRODUCTS DURING RESUSCITATION AFTER CLINICAL DEATH N64-12768 04-16

RETINA
CF EYE
CODING SYSTEM FOR COLOR INFORMATION TRANSMISSION IN RETINA - CYBERNETICS N64-12521 04-16

VISUAL SYSTEM STRUCTURE AND PHOTORECEPTORS FOR RETINAL IMAGE - CYBERNETICS N64-12522 04-16

VISUAL INFORMATION PROCESSING IN RETINA BY OPTIMAL ENCODING - CYBERNETICS N64-12523 04-16

POSSIBLE DIAGNOSTIC TECHNIQUE FOR DETERMINING BODY REACTION TO SMALL DOSES OF IONIZING RADIATION BY OBSERVING PHOSPHINE THRESHOLD OF RETINA
N64-15679 07-16

GLIAL AND OTHER NONNEURONAL CELL CONTROL OF NEURON ACTIVITY - RETINA N64-18832 11-16

EFFECT OF IONIZING RADIATION ON RETINA AND OTHER PHOTOSENSITIVE SYSTEMS
FTD-TT-63-163/1&264 N64-22343 15-16

EFFECTS OF VARIOUS HIGH INTENSITY LIGHT SOURCES ON RETINAL SENSITIVITY
REPT.-1549-TDR-1 N64-28288 20-16

RETRIEVAL
$ DATA RETRIEVAL
$ INFORMATION RETRIEVAL

RETROROCKET
PENETRATION DISTANCE OF RETRORDCKET EXHAUST PLUMES INTO ONCOMING FREE STREAM
SSD-TDR-64-23 N64-22319 15-27

RETURN-TO-EARTH PHASE
TRAJECTORY CALCULATION, REENTRY CONDITIONS, LANDING SITE, AND INJECTION CONDITIONS FOR RETURN-TO-EARTH FROM LUNAR ORBIT
NASA-TR-X-51082 N64-10103 01-22

REUSABLE SPACECRAFT
COSTS OF ROUND-TRIP REUSABLE EARTH-LUNAR TRANSPORTATION SYSTEMS
NASA-TM-X-51436 N64-15869 07-30

MISSION APPLICATIONS OF REUSABLE SPACECRAFT AS ORBITAL AND GLOBAL RANGE TRANSPORTS
AIAA PAPER-64-770 N64-28306 20-30

REUSABLE BOOSTER FOR LUNAR LOGISTICS AND PLANETARY EXPLORATION
DOUGLAS PAPER-1887 N64-28806 20-31

TERRESTRIAL, LONG DISTANCE, HYPERSONIC, REUSABLE AEROSPACE TRANSPORTER N64-32878 24-30

REVOLUTION
ANNOTATED BIBLIOGRAPHY OF AERODYNAMIC CHARACTERISTICS OF BODIES OF REVOLUTION WITHOUT FINS
SB-63-75 N64-27793 19-02

SYMMETRIC LOADING TO DETERMINE STRESS AND DEFORMATION OF THIN ORTHOTROPIC SHELLS OF REVOLUTION
LMSC-6-74-64-5 N64-30682 22-20

REYNOLDS EQUATION
$ DIFFERENTIAL EQUATION
$ FIRST ORDER EQUATION
$ LINEAR EQUATION
$ NAVIER STOKES EQUATION

REYNOLDS NUMBER
HEAT TRANSFER MEASUREMENTS AT HIGH STAGNATION ENTHALPY AND HIGH REYNOLDS NUMBER
N64-15640 07-13

PLOTS OF TURBULENT REYNOLDS NUMBER VALUES FOR CURVED MIXING LAYER FLOWS
ARDD-4491-1 N64-16989 09-11

REYNOLDS NUMBER AND MACH NUMBER EFFECT ON TURBINE TANGENTIAL FLOW
CDRD-64-7032 N64-22230 15-27

REYNOLDS NUMBER EFFECT
PRESSURE GRADIENT AND REYNOLDS NUMBER EFFECTS ON BOUNDARY LAYER TRANSITION IN HYPERSONIC FLOW
RAE-TRANS.-1073 N64-33439 24-11

RH- 2 HELICOPTER
NAVIGATION SYSTEM AND VISUAL DISPLAY IN RH- 2 HELICOPTER
D228-100-008 N64-19136 11-04

RHENIUM
PREPARATION OF HIGH PURITY RHENIUM BY VACUUM HEATING AND ELECTROLYTIC METHODS
JPRS-17539 N64-10562 01-18

EXTRACTION AND APPLICATIONS OF RHENIUM AND ALLOYS
JPRS-19761 N64-10590 01-18

ELECTROLYTIC & AUTOCLAVE PRODUCTION OF RHENIUM POWDER
JPRS-17937 N64-10727 02-18

PRODUCTION OF RHENIUM FROM POTASSIUM PERRHENATE BY AUTOCLAVE PROCESS N64-10728 02-19

PRODUCTION OF RHENIUM POWDER BY ELECTROLYSIS USING ALTERNATING CURRENT N64-10729 02-19

RHENIUM IN MOLYBDENITE CONCENTRATES
JPRS-19929 N64-10837 02-18

HYPERFINE STRUCTURES OF STABLE LITHIUM ISOTOPES, & RADIOACTIVE ISOTOPES OF RHENIUM
UCRL-11047 N64-11988 03-23

EFFECTS OF IMPURITIES & NEUTRON IRRADIATION ON PROPERTIES & STRUCTURE OF POLYCRYSTALLINE & SINGLE CRYSTAL MOLYBDENUM, NICKEL, AND RHENIUM
N64-14227 06-18

PROPERTIES, APPLICATIONS, SOURCES, PRODUCTION METHODS, AND ANALYTIC CHEMISTRY OF RHENIUM
JPRS-23361 N64-15527 07-18

COMPUTER PROGRAM FOR THERMODYNAMIC ANALYSIS OF CHEMICAL REACTIONS IN TUNGSTEN AND RHENIUM VAPOR PLATING
UCRL-7667 N64-20430 13-20

RHENIUM PROTECTIVE COATING FOR TITANIUM DURING HIGH TEMPERATURE BRAZING N64-21189 14-18

STRESS-RUPTURE AND CREEP ANALYSIS OF RHENIUM, TUNGSTEN, & ARC CAST MOLYBDENUM
GEMP-35A N64-22208 15-33

SURFACE IONIZATION OF CESIUM - IONIZATION EFFICIENCIES OF TUNGSTEN, RHENIUM, & NIOBIUM, AND INFLUENCE OF ADSORBED GASES
NASA-CR-54047 N64-22444 15-24

NUCLEAR PROPERTIES OF RHENIUM USING SCINTILLATION DETECTOR
AD-439807 N64-25838 18-23

HYGIENIC CHARACTERISTICS OF INDUSTRIAL RHENIUM AEROSOL
JPRS-26069 N64-27671 19-16

MECHANICAL PROPERTIES - CRYSTALLOGRAPHY OF SLIP & CLEAVAGE IN MOLYBDENUM-RHENIUM CRYSTALS
NASA-CR-58288 N64-29195 21-18

SILVER, RHENIUM, AND RHODIUM GALVANIC COVERINGS FOR PROTECTING TITANIUM ALLOY FROM OXIDATION AND SOLDER COMPONENT INTERACTIONS DURING SOLDERING
FTD-MT-64-48 N64-31883 23-18

EFFECTS OF CESIUM ADDITIVE ON PERFORMANCE AND WORK FUNCTIONS OF RHENIUM EMITTER DIODE
REPT.-36-63 N64-32036 23-09

SEMI-QUANTITATIVE SPECTROCHEMICAL ANALYSIS OF RHENIUM
NASA-CR-59273 N64-33326 24-13

RHENIUM DETERMINATION IN RHENIUM-URANIUM-ZIRCONIUM CARBIDE USING X-RAY ABSORPTION EDGE METHOD
LA-3135 N64-33879 24-07

RHENIUM ALLOY
METALLURGY - RARE EARTH, HAFNIUM CARBIDE, THORIUM, URANIUM NITRIDE, & TUNGSTEN-RHENIUM ALLOYS
USBM-U-1082 N64-10253 01-18

EXTRACTION AND APPLICATIONS OF RHENIUM AND ALLOYS
JPRS-19761 N64-10590 01-18

PROPERTIES OF TUNGSTEN-RHENIUM ALLOYS
N64-11015 02-18

TWINNING MECHANISM IN SINGLE CRYSTAL DEFORMATION OF A MOLYBDENUM-RHENIUM ALLOY N64-11528 03-23

MELTING OF BINARY AND TERNARY ALLOYS OF TUNGSTEN, MOLYBDENUM, AND RHENIUM N64-12448 04-18

RHENIUM-TUNGSTEN COILED FILAMENTS IN MAGNETIC FIELD OF STELLARATOR AND OPERATED UNDER PULSED AND STEADY CONDITIONS
MATT-229 N64-14144 05-23

RARE EARTH ALLOYS, HAFNIUM CARBIDE, THORIUM ALLOY, MELTING & CASTING METHODS, AND TUNGSTEN-RHENIUM TUBING DEVELOPMENTS
USBM-U-1091 N64-15838 07-18

PERFORMANCE OF TUNGSTEN-TUNGSTEN 26 RHENIUM THERMOCOUPLES TO ABOUT 5000 DEGREES FAHRENHEIT
NASA-CR-55626 N64-16269 08-23

RARE EARTH ALLOY, HAFNIUM CARBIDE, THORIUM ALLOY, URANIUM-CARBON-OXYGEN SYSTEM, TUNGSTEN-RHENIUM TUBING, & COLD-MOLD MELTING RESEARCH
USBM-U-1109 N64-19030 11-18

COBALT-CHROMIUM-NICKEL ALLOY SUPPLEMENTED BY RHENIUM - HARDNESS, CORROSION AND WEAR RESISTANCE
FTD-TT-62-1840/1&2&4 N64-22407 15-18

TENSILE PROPERTIES OF TUNGSTEN-RHENIUM AT HIGH TEMPERATURES IN VACUUM
NASA-CR-56462 N64-23945 16-18

RELATIONSHIP OF TWINNING TO BRITTLE FRACTURE IN REFRACTORY METALS - MOLYBDENUM-RHENIUM ALLOY
ASD-TDR-63-360, PT. II N64-26218 18-18

RHENIUM EFFECT ON STRUCTURAL PROPERTIES OF GROUP VI-A REFRACTORY METALS
AD-421178 N64-31686 23-18

MECHANICAL PROPERTIES OF CHROMIUM, MOLYBDENUM, AND TUNGSTEN WITH RHENIUM ADDITION IN SOLID SOLUTION
NASA-CR-118 N64-33078 24-18

RHEOELECTRICAL SIMULATION
RHEOELECTRIC SIMULATION METHOD FOR MEASURING EFFECTS OF GROUND PROXIMITY ON WINGS
DTMB-AERO-1068 N64-20420 13-03

RHEOLOGY
COAXIAL CYLINDRICAL RHEOMETER FOR MEASURING FLOW & VISCOELASTIC PROPERTIES OF POLYMERS & SUSPENSIONS BY OSCILLATORY AND STATIONARY METHODS
N64-11376 02-15

RHEOLOGIC & THERMODYNAMIC PROPERTIES OF SOLID AND SLUSH HYDROGEN
AD-423643 N64-13081 04-11

LUNAR ROTATION AND EFFECT ON RHEOLOGY OF LUNAR SUBSTANCE N64-19329 12-05

BEHAVIOR OF RHEOLOGICAL SUSPENSIONS UNDER STRESS
N64-28190 20-11

RHEOLOGICAL BEHAVIOR OF FILLED ELASTOMER - POLYURETHANE RUBBER FILLED WITH GRANULAR POTASSIUM CHLORIDE
TR-23 N64-28582 20-20

CAPILLARY EXTRUSION RHEOMETER TO MEASURE FLOW PROPERTIES OF THERMOSETTING PLASTIC MOLDING POWDERS
NLM-1211 N64-29608 21-19

RHODIUM
GRAVIMETRIC DETERMINATION OF RHODIUM IN URANIUM-RHODIUM ALLOYS
LA-3097 N64-26616 18-18

TWO THOUSAND DEG F POWER WIRE SYSTEM AND ELECTRON-BEAM FLOAT-ZONE REFINING OF RHODIUM
QR-2 N64-31193 22-18

SILVER, RHENIUM, AND RHODIUM GALVANIC COVERINGS FOR PROTECTING TITANIUM ALLOY FROM OXIDATION AND

SOLDER COMPONENT INTERACTIONS DURING SOLDERING
FTD-MT-64-48 N64-31883 23-18

RHOMBIC ANTENNA
CF RADIO ANTENNA
COMPARISON OF LOG PERIODIC ANTENNA WITH RHOMBIC ANTENNA FOR HIGH FREQUENCY BAND
EDL-M548 N64-29927 21-08

RHYTHM
ELECTRONIC EQUIPMENT FOR RHYTHMIC STIMULATION OF HEART N64-30392 22-16

RIB
STRESSED STATE OF CYLINDRICAL SHELLS REINFORCED WITH RIBS - TWO METHODS OF SOLUTION
FTD-TT-62-1623/1&2 N64-11189 02-34

SCALE SIZE WAFFLE PANEL WITH INTEGRAL RIBS FORMED BY COLD PRESS-EXTRUSION TECHNIQUE
NASA-TM-X-53058 N64-28746 20-34

RIBOFLAVIN
THIAMINE AND RIBOFLAVIN CONTENT OF TISSUES IN BURN SHOCK N64-10010 01-16

RIBONUCLEIC ACID
SA NUCLEOSIDE
SA NUCLEOTIDE
BIOCHEMICAL TEMPLATING OF DESOXYRIBONUCLEIC ACID-RIBONUCLEIC ACID INTO PROTEIN
JPRS-17811 N64-10566 01-16

SPIRALIZATION OF TRANSPORT RIBONUCLEIC ACID MEASURED BY DURATION OF FLUORESCENCE OF ACRIDINE ORANGE DYE
JPRS-22521 N64-12067 03-16

TRANSFER OF AMINO ACID STRUCTURE TO RIBOSOMES FROM DESOXYRIBONUCLEIC ACID BY RIBONUCLEIC ACID CODING OF PROTEIN N64-12511 04-16

VARIATIONS OF RNA IN GIANT CHROMOSOMES OF LARVAE DURING METAMORPHOSIS
JPRS-22666 N64-13229 04-16

MACROMOLECULAR STRUCTURE OF RIBONUCLEIC ACIDS
JPRS-24068 N64-17973 10-16

INTERPRETATION OF NUCLEOTIDE SEQUENCE IN CONVEYING RIBONUCLEIC ACIDS
JPRS-24086 N64-17976 10-16

NUCLEIC ACIDS - RIBONUCLEIC AND DESOXYRIBONUCLEIC ACIDS - PHYSICAL & CHEMICAL PROPERTIES AND ROLE IN PROTEIN SYNTHESIS
JPRS-24070 N64-18328 10-16

RIBONUCLEIC ACID IN PROTEIN SYNTHESIS
N64-18330 10-16

EFFECT OF RADIATION INJURY OF NUCLEI ON SYNTHESIS OF INFORMATIONAL RIBONUCLEIC ACID IN FISH EMBRYO
JPRS-23944 N64-18334 10-16

OPTICAL ANISOTROPY AND CONFORMATION OF MOLECULES OF SOLUBLE RIBONUCLEIC ACID
JPRS-24844 N64-21045 14-07

SPECIFICITY OF COMPLEMENTARY RIBONUCLEIC ACID FORMED BY BACILLUS SUBTILIS INFECTED WITH BACTERIOPHAGE SP8 N64-25880 18-16

EFFECTS OF CORTISONE ON METABOLISM OF RIBONUCLEIC ACID AND ITS NUCLEOTIDES IN RAT LIVER
NASA-TT-F-224 N64-27036 19-16

DETECTION OF LABELLED RIBONUCLEIC ACID IN NERVOUS SYSTEM OF WHITE RATS
JPRS-26042 N64-27636 19-16

INFLUENCE OF ULTRASONIC WAVES ON NUCLEIC ACIDS - RIBONUCLEIC ACID N64-32957 24-16

RIEMANN PROBLEM
RIEMANN SOLUTION TO PROBLEM OF FLOW AROUND THIN BODIES
FTD-MT-63-288 N64-32599 23-11

RIEMANN SPACE
SPIN TRANSFORMATIONS IN RIEMANN SPACE
AD-439076 N64-20377 13-20

RIEMANN MANIFOLD USED TO OBTAIN INVARIANT MEAN CURVATURE VECTOR
AROD-1517-62 N64-22540 15-20

RIEMANN SURFACE
CF COMPLEX VARIABLE
TOPOLOGY OF MINIMAL RIEMANN SURFACES IN THREE-DIMENSIONAL EUCLIDEAN SPACE AND EUCLIDEAN SPACE OF ARBITRARY DIMENSION
TR-23 N64-14484 06-23

RIEMANN WAVE
S PLANE WAVE

RIESZ THEOREM
VARIATIONAL TECHNIQUES TO OBTAIN SHORT PROOF OF RIESZ THEOREM OF LINEAR INEQUALITIES
RM-4149-PR N64-29665 21-20

RIFT PROJECT
S REACTOR IN-FLIGHT TEST /RIFT/ PROJECT

RIGID BODY
RIGID BODY VIBRATIONS OF ROCKET SLEDS AND SHAKE TEST METHOD OF OBTAINING INERTIA AND ELASTIC CONSTANTS
MDC-TDR-63-1 N64-12938 04-33

RIGID BODY MOTION OF TWO-BODY SATELLITE UNDER ACTION OF GRAVITATIONAL TORQUES
N64-17557 09-29

SYSTEMS FOR AUTOMATIC CONTROL OF ROTATION OF RIGID BODY
REPT. 63-23 N64-19893 12-20

MOTION OF RIGID BODY FASTENED AT STATIONARY POINT
N64-23561 16-23

GEOMETRICAL PROPERTIES OF ANTIPOLE FOR HEAVY, NONSYMMETRICAL BODY MOVING AROUND STATIONARY POINT
N64-23562 16-23

MOTION EQUATIONS OF RIGID BODY WITH LIQUID FILLED CAVITIES N64-23563 16-11

RIGID BODY WIND RESPONSES FOR USE IN IN-FLIGHT LOAD CALCULATIONS
NASA-TM-X-53042 N64-27238 19-02

MOTION CONSTRAINTS IN SYSTEM OF RIGID BODIES AND APPLICATION TO GYROSCOPE IN CARDAN SUSPENSION
N64-29294 21-23

ULTIMATE STRENGTH OF SINGLE-STORY, PINNED-BASE RIGID FRAMES SUBJECTED TO VERTICAL AND HORIZONTAL LOADS
REPT.-273.18 N64-33889 24-26

RIGID MOUNTING
STRESSES, STRAINS, AND DISPLACEMENTS IN MULTIAXIAL TEST OF CIRCULAR DISK OF SOLID PROPELLANT BONDED TO RIGID PLATES N64-13255 04-24

RIGID STRUCTURE
RIGIDIZED INFLATABLE PARABOLIC SOLAR ENERGY COLLECTOR
NASA-CR-55733 N64-16333 08-06

RIGID INFLATABLE SOLAR ENERGY CONCENTRATOR
NASA-CR-53316 N64-17767 09-06

RIGID INFLATABLE SOLAR ENERGY CONCENTRATOR
NASA-CR-53298 N64-17768 09-06

RIGID INFLATABLE SOLAR ENERGY CONCENTRATOR
NASA-CR-53299 N64-17769 09-06

RIGID INFLATABLE SOLAR ENERGY CONCENTRATOR
NASA-CR-53300 N64-17770 09-06

MINIMIZING OPTICAL DISTORTIONS OF GEL COATS USED IN FABRICATION OF RIGIDIZED INFLATABLE SOLAR ENERGY CONCENTRATORS
NASA-CR-53356 N64-17823 09-06

EXPANDABLE SELF-RIGIDIZING HONEYCOMB STRUCTURES
N64-23708 16-33

GELATIN - MATERIAL FOR STIFFENING AEROSPACE STRUCTURES
N64-23709 16-19

CHEMISTRY OF POLYURETHANE FOAM SYSTEMS AND APPLICATION OF SYSTEMS TO ENGINEERING AND DEVELOPMENT OF RIGIDIZABLE SHELTERS AND SOLAR COLLECTORS
N64-23710 16-19

STIFFENING EXPANDABLE STRUCTURE VIA GAS CATALYSIS
N64-23711 16-19

INFRARED AND ULTRAVIOLET RADIATION FOR RIGIDIZING INFLATABLE SPACE STRUCTURES
N64-23717 16-19

EXPANDED ALUMINUM MESH FOR INFLATABLE RIGID REFLECTING DEVICE
N64-23718 16-09

MECHANICALLY MIXED POLYURETHANE FOAM-RIGIDIZED SOLAR COLLECTOR
N64-23721 16-19

DESIGN AND FABRICATION OF INFLATABLE AND RIGIDIZABLE PASSIVE COMMUNICATION SATELLITES
N64-23728 16-32

MATERIALS, INFLATABLE STRUCTURES, AND RIGID STRUCTURES FOR RADOMES
USAADEA-TR-14-1 N64-24806 17-08

RIGIDITY
RIGIDITY OF MOTION IN SLIDING HYPERPLANE FOR AUTOMATIC CONTROL SYSTEMS WITH VARIABLE STRUCTURE - CYBERNETICS
N64-12466 04-20

HIGHEST DEGREE OF STABILITY AND RIGIDITY OF MOTION OF SLIDING HYPERPLANE
N64-12467 04-20

INTERACTION BETWEEN SHOCK WAVE IN ELASTOPLASTIC MEDIUM AND NONRIGID WALL
FTD-TT-63-360/1&2&4 N64-19199 11-23

IDEALIZED MODEL FOR VARIATION WITH RIGIDITY OF COSMIC RAY CHARGE SPECTRUM
UBPA-39 N64-25530 17-28

NUCLEAR COMPOSITION AND RIGIDITY SPECTRA OF SOLAR COSMIC RAYS
NASA-RP-248 N64-28750 20-28

RESPONSE OF SIMPLIFIED ICBM-TYPE STRUCTURES TO IMPULSIVE LOADING - RIGID-PLASTIC THEORY, DYNAMIC ELASTIC BUCKLING, TRAVELING LOADS, AND FLOW BUCKLING THEORY
AFWL-TDR-64-22, VOL. II N64-31651 23-33

FOAM RIGIDIZING OF MIRROR MODELS FOR SOLAR REFLECTOR
GER-11333 N64-32193 23-17

BOUNDARY THEOREMS FOR RIGID PLASTIC MATERIAL UNDER CERTAIN CONDITIONS OF DYNAMIC LOADING
BU/DTMB/1 N64-32277 23-33

RING
SA LOOP
CF CIRCLE
JOINT RING EVALUATION FOR REACTOR IN-FLIGHT TEST PROJECT
NASA-CR-56344 N64-22460 15-17

DECOMPOSITION OF CONES IN MODULES OVER ORDERED RINGS - BOOLEAN ALGEBRA
MRC-463 N64-22602 15-20

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - SEALS, O-RINGS, AND GASKETS
RSIC-150, VOL. I, APPEND. H N64-27487 19-19

EFFECTS OF RING, BRUSH, & INSULATOR MATERIALS ON ELECTRICAL NOISE AND MECHANICAL WEAR IN MINIATURE SLIP-RING ASSEMBLIES
NASA-CR-58666 N64-29693 21-17

TRAVELING WAVE RING LASER FOR ROTATION SENSING
AB-1272-0011 N64-33275 24-15

RING CURRENT
GEOMAGNETIC VARIATIONS FROM VAN ALLEN BELT RING CURRENTS
N64-12405 03-12

FIELD STRENGTH OF GEOMAGNETIC EQUATORIAL RING CURRENT
TG-198 N64-16485 08-12

LOW LEVEL GEOMAGNETIC RING EFFECTS IN VAN ALLEN BELT
NASA-CR-56010 N64-17731 09-28

RING CURRENT EFFECT ON BOUNDARY OF GEOMAGNETIC FIELD IN SOLAR WIND
NASA-TR-R-177 N64-21259 14-28

RING CURRENT EFFECTS ON AXISYMMETRIC DEVELOPMENT OF GEOMAGNETIC STORM FIELDS IN LOW AND MIDDLE LATITUDES
N64-27756 19-12

RING CURRENT OF TERRESTRIAL MAGNETIC FIELD
P-2939 N64-30744 22-24

RING STRUCTURE
TRANSISTOR RING COUNTER FOR DIGITAL ELECTRONIC TIMERS & PROGRAMMERS
TR-1154 N64-12642 04-09

BICYCLIC SMALL RING COMPOUNDS AND CYCLOPROPENE & ITS DERIVATIVES
AROD-2968-1 N64-19271 11-07

BENDING DUE TO RING LOADING OF CYLINDRICAL SHELL WITH ELASTIC CORE
TDR-169/3560-30/TN-5 N64-24393 17-33

HYDROSTATIC PRESSURE TESTS OF RING-STIFFENED CYLINDER OF OVAL CROSS-SECTION
DTMB-1788 N64-25121 17-33

POLYMER SYNTHESIS OF PYRAZOLE COMPOUNDS
FTD-TT-64-218/1&2&4 N64-25466 17-19

RING STIFFENERS FOR AXIALLY SYMMETRIC CYLINDRICAL SHELLS
DTMB-1894 N64-29732 21-34

RING STRUCTURE OF SINGLE STRAND DEOXYRIBONUCLEIC ACID SHOWN BY ELECTRON MICROSCOPY
N64-30785 22-16

RIOMETER
RIOMETRIC OBSERVATIONS IN ANTARCTICA TO PROVIDE ABSORPTION DATA DURING SOLAR COSMIC RAY EVENTS
DOUGLAS PAPER-1655 N64-11285 02-12

RIOMETER MEASUREMENTS WITH REGARD TO ABSORPTION CROSS-SECTION OF ELECTRONS IN UPPER ATMOSPHERE
N64-20772 14-12

ABSORPTION MEASUREMENTS WITH RIOMETER - DATA SUMMARY FOR MARCH - AUGUST 1963
LAFE-9 N64-22010 15-15

DIODE CLIPPING CIRCUITS AND FREQUENCY DIVERSITY CIRCUIT TO PROVIDE INTERFERENCE REJECTION CAPABILITY FOR RIOMETER
REPT.-191-1 N64-30140 21-13

ABSOLUTE SOLAR COSMIC RAY INTENSITY RELATION WITH RIOMETER ABSORPTION BY EXPLORER VII SATELLITE
SUI-64-29 N64-30973 22-29

RIOMETER AND PHASE-SOUNDER FOR DETECTION OF NUCLEAR EXPLOSIONS IN DEEP SPACE - VELA PROJECT
AD-444659 N64-33365 24-12

NON-CHOPPING RIOMETER WITH CONTINUOUS WAVE & PULSE INTERFERENCE REJECTION CIRCUITS
AD-446633 N64-33502 24-15

RADIOWAVE ABSORPTION EVENTS IN AURORAL ZONE - ANALYSIS OF MAGNETOMETER, RIOMETER, AND ALL-SKY CAMERA DATA
NASA-CR-59342 N64-33810 24-19

RIOMETRY
RIOMETER OBSERVATIONS IN ANTARCTIC OF SOLAR COSMIC RAY EVENTS DURING 1962 & 1963
N64-13173 04-29

RITZ AVERAGING METHOD
S DIFFERENTIAL EQUATION

RIVET
CF FASTENER
METALWORKING - FASTENERS, BOLTS, & RIVETS FROM HEAT RESISTANT STEELS N64-17086 09-17

EFFECT OF RIVETED STRINGER ON STRESS CONCENTRATION IN ELASTIC SHEET WITH CRACK OR CUT-OUT
TR-20 N64-28555 20-33

RL-10 ROCKET ENGINE
RL-10 ROCKET ENGINE FOR CENTAUR UPPER STAGE SPACE VEHICLE
PWA-FR-950 N64-28697 20-27

RLC CIRCUIT
S ELECTRIC RESISTANCE
S INDUCTION
S RESONANCE

RLC NETWORK
PARAMETRIC ANALYSIS OF NONLINEAR RLC NETWORKS
R-224 N64-33726 24-09

ROBIN BALLOON
ANALYSIS OF RADAR SYSTEM FOR TRACKING ROBIN METEOROLOGICAL BALLOON
AFCRL-63-766 N64-11452 03-21

ACCURACY OF METEOROLOGICAL DATA FROM FLIGHTS OF ARCAS ROCKET AND ROBIN BALLOON TRACKED BY RADAR
AFCRL-63-938 N64-21822 15-21

ROCK
SA CLAY
SA LIMESTONE
SA MINERAL
SA QUARTZ
CONDUCTIVITY OF ROCKS AT HIGH TEMPERATURES
JPRS-21649 N64-10070 01-19

DIRECTIONAL ELECTROMAGNETIC INDUCTION SOUNDING FOR HIGH CONDUCTIVITY STRUCTURES COVERED BY LOW CONDUCTIVITY ROCKS - GEOLOGICAL SURVEY
N64-11491 03-12

ROCK AND SOIL WAVE ATTENUATION RESPONSE TO DYNAMIC LOADING BY NUCLEAR EXPLOSIONS N64-12414 04-23

ELECTRICAL PROSPECTING IN HYDRAULIC CONSTRUCTION SURVEY OF PERENNIALLY FROZEN ROCK
JPRS-22701 N64-13087 04-12

THERMOCONDUCTIVITY OF GRANITE, BASALT, TUFF, DOLOMITE, LIMESTONE, AND GNOME SALT MEASURED TO 1000-DEG. C.
UCRL-7605 N64-15399 07-13

ELECTRICAL CHARACTERISTICS OF SUBSURFACE ROCK STRATA AND TECHNIQUES RELATED TO ROCK PROPAGATED RADIO SIGNALS
AFCRL-64-1 N64-16081 07-12

STRESSES IN ROCK JOINTS AND FRACTURE DIRECTION ORIENTATIONS
BM-RI-6413 N64-19284 11-12

PHASE CONSTANT MEASUREMENTS FOR ROCK STRATA RADIO PROPAGATION
AFCRL-64-64 N64-20346 13-12

CHANGE IN SPECIFIC ELECTRICAL CONDUCTIVITY OF MINERALS AND ROCKS WITH AGE
JPRS-24980 N64-21287 14-12

ELASTIC PROPERTIES OF ROCK UNDER HIGH ISOSTATIC PRESSURE
FTD-TT-63-725/1&2&3&4 N64-21935 15-19

FLUID IMPACT CRATERS AND HYPERVELOCITY - HIGH VELOCITY IMPACT EXPERIMENTS IN METALS AND ROCKS
NASA-CR-56359 N64-22459 15-12

PIEZOELECTRIC EFFECT OF NEPHELINE ROCKS - MINERALOGY
JPRS-25126 N64-22739 16-12

PENETRATING COSMIC RADIATION FOR DETERMINATION OF MEAN ROCK-DENSITY VALUES
JPRS-25104 N64-22797 16-20

HIGH FREQUENCY INDUCTION HEATING FOR ROCK DEFORMATION TESTING
AFCRL-64-215 N64-25470 17-15

MAGNETOMETRY FOR STUDYING RARE METAL CARBONATITE MASSES
JPRS-25991 N64-27761 19-18

PERMEABILITY OF ANISOTROPIC FISSURED ROCK
N64-28492 20-12

ELECTRIC CONDUCTIVITIES IN ROCK MEDIA DEDUCED FROM QUARTER-WAVE RESONANT FREQUENCIES OF INSULATED MONOPOLE ANTENNA SYSTEMS
AFCRL-64-99 N64-29245 21-12

LOADING RATE EFFECT ON DEFORMATION OF ROCK UNDER TRIAXIAL COMPRESSION
AROD-3055-1 N64-29924 21-12

ROCK STRESS MEASUREMENT WITH HYDRAULIC EQUIPMENT AND FLAT SLOTS
BM-RI-6537 N64-31254 22-15

INFLUENCE OF REAGENTS ON FLOTATION OF PYROCHLORE AND CONCOMITANT MINERALS FROM CARBONATITE DEPOSIT
N64-31409 23-07

BIBLIOGRAPHY ON ROCK DEFORMATION
AFCRL-64-713 N64-32113 23-25

COSMIC RADIATION FOR STUDY OF GEOLOGICAL FORMATIONS AND ROCK DENSITY DETERMINATIONS
NASA-TT-F-8975 N64-33383 24-28

UTILIZATION OF LUNAR RESOURCES - REDUCTION OF IGNEOUS ROCK OR SILICATE MATERIALS WITH METHANE, CARBON, AND HYDROGEN
NASA-CR-59167 N64-33679 24-07

ROCKET
SA AEROBEE ROCKET
SA AGENA ROCKET
SA ASTROBEE 1500 ROCKET
SA ATHENA ROCKET
SA BLUE SCOUT ROCKET
SA HYBRID ROCKET
SA METEOROLOGICAL ROCKET
SA MISSILE
SA MULTISTAGE ROCKET
SA NIKE-APACHE ROCKET
SA NIKE-CAJUN ROCKET
SA NIKE-HERCULES ROCKET
SA NIKE ROCKET
SA NIKE-ZEUS ROCKET
SA NUCLEAR ROCKET
SA PLASMA ROCKET
SA RETROROCKET
SA SOUNDING ROCKET
SA TWO-STAGE ROCKET
CONTEMPORARY AND FUTURE ROCKET PROPULSION SYSTEMS
FTD-TT-63-455/1&2&3&4 N64-16040 07-27

ROCKET CATAPULT FOR EJECTION SEAT
AD-440352 N64-21090 14-30

AUTOMATIC HOMING AND COMBINED ROCKET GUIDANCE SYSTEMS
FTD-TT-64-84/1&2&3&4 N64-22157 15-22

MEASUREMENT OF ELECTROSTATIC FIELD INTENSITY AT ROCKET SURFACE IN ATMOSPHERIC FLIGHT
NASA-TT-F-8527 N64-23119 16-12

IBM 7044 COMPUTER PROGRAM IN FORTRAN FOR DETERMINING LAUNCH ANGLES FOR UNGUIDED ROCKETS
ERDA-148 N64-24344 17-20

ROCKETS IN ORBIT
FTD-TT-64-536/1&4 N64-26164 18-29

CENTRIFUGAL FORCE EXTENSION OF TELESCOPING ANTENNAS ON HIGH SPIN RATE ROCKETS
AFCRL-64-430 N64-26222 18-08

EQUATIONS FOR IDEALIZED ROCKETS
N64-26347 18-27

ASTRONOMY, IONOSPHERIC AND COSMIC PHYSICS, BALLOONS, ROCKETS, AND SATELLITES
NASA-TT-F-9023 N64-27137 19-29

EQUATIONS OF MOTION FOR SPINNING ELASTIC ROCKET WITH RESPECT TO ATTACHED AXES - DYNAMIC STABILITY
N64-28100 20-30

HYPERGOLIC FUEL INJECTION IN ROCKET COMBUSTION CHAMBERS N64-28587 20-26

UPPER ATMOSPHERE POLLUTION BY ROCKETS
RM-3961-PR N64-28647 20-12

MOTION EQUATIONS OF AXISYMMETRIC ROCKET IN CYLINDRICAL COORDINATE SYSTEM N64-30422 22-02

VAPOR-PLATING OF TUNGSTEN COATINGS FOR ROCKETS BY HYDROGEN REDUCTION
RR-TR-64-6 N64-30888 22-18

LOW POWER, HIGH EFFICIENCY DIRECT CURRENT-DIRECT CURRENT CONVERTERS FOR SATELLITE AND ROCKET ENVIRONMENTAL CONDITIONS
AFCRL-64-558 N64-31403 23-09

TEMPERATURE, PRESSURE, DENSITY, AND WIND MEASUREMENTS FROM RECORDED EXPLOSION TIMES AND SOUND ARRIVALS DURING ROCKET GRENADE EXPERIMENTS
NASA-TR-R-211 N64-31451 23-21

WIND EFFECTS ON DISPERSION FOR VERTICAL PROBE ROCKETS
ATL-TDR-64-13 N64-32046 23-32

ION ROCKET SYSTEM - ENGINES AND ELECTRODE MATERIAL TEST PROGRAM
NASA-CR-59020 N64-33285 24-27

USE OF ANNIHILATION FOR SETTING IN MOTION PHOTON ROCKETS - NASCENT BEAM FOCUSING USING ELECTRIC AND MAGNETIC FIELDS
NASA-TT-F-8969 N64-33377 24-27

ROCKET AIRCRAFT
ROCKET PLANES FOR LONG DISTANCE EARTH TRANSPORTATION
FTD-TT-63-1134/1 N64-19760 12-04

ROCKET BOOSTER
ROCKET BOOSTER CONTROL - TIME-OPTIMAL BOUNDED PHASE COORDINATE CONTROL FOR SYSTEMS MODELED BY LINEAR RECURRENCE EQUATIONS
NASA-CR-55430 N64-15543 07-20

ROCKET BOOSTER CONTROL - INITIAL CONDITION CONTROL, VECTOR CONTROL, AND LOADING DISTURBANCE CONTROL
NASA-CR-53360 N64-18120 10-27

SOLUTION OF BOUNDED PHASE COORDINATE OPTIMAL CONTROL PROBLEM WITH USE OF PENALTY FUNCTIONS - ROCKET BOOSTER CONTROL
NASA-CR-59 N64-21054 14-20

ROCKET BOOSTER CONTROL - SUFFICIENT CONDITION IN OPTIMAL CONTROL
NASA-CR-50 N64-21253 14-30

ROCKET BOOSTER - CONTROL SYSTEM AND CONTROL VARIABLES
NASA-CR-49 N64-22016 15-20

TIME OPTIMAL CONTROL WITH AMPLITUDE AND RATE LIMITED CONTROL - ROCKET BOOSTER CONTROL
NASA-CR-48 N64-23030 16-06

LINEAR PROGRAMMING AND BOUNDED PHASE COORDINATE CONTROL - ROCKET BOOSTER CONTROL SYSTEM
NASA-CR-56650 N64-23851 16-30

MATHEMATICAL DESCRIPTION OF GEOMETRIC CONFIGURATION OF LIQUID PROPELLANT ROCKET BOOSTER FOR TRAJECTORY AND PERFORMANCE PREDICTION
NASA-TM-X-53026 N64-27244 19-34

GUIDANCE FOR ROCKET BOOSTER MISSIONS
SSD-TDR-64-119 N64-27471 19-22

ROCKET ENGINE
SA BE-3 ROCKET ENGINE
SA LIQUID PROPELLANT ROCKET ENGINE
SA MA-5 ROCKET ENGINE
SA RL-10 ROCKET ENGINE
SA SOLID PROPELLANT ROCKET ENGINE
PROTECTIVE COATINGS FOR REFRACTORY METALS IN ROCKET ENGINES
NASA-CR-52871 N64-11420 02-17

AUTOMATIC DATA PROCESSING TECHNIQUES FOR STATISTICAL EVALUATION OF ROCKET MOTOR PERFORMANCES
RK-TR-63-23 N64-12222 03-01

ALGORITHM TO COMPUTE TIME-OPTIMAL CONTROL FUNCTIONS FOR ROCKET BOOSTERS
NASA-CR-55350 N64-14154 04-20

MULTIPLE COMPONENT REGULATION TRANSFORMED INTO SINGLE COMPONENT CONTROL FOR ROCKET BOOSTERS
NASA-CR-55345 N64-14156 05-22

LOW PRESSURE ROCKET EXTINCTION
NASA-CR-53037 N64-14742 06-26

DIGITAL COMPUTER STUDY OF SELF-COOLED ROCKET NOZZLE AND MATERIAL TESTS FOR SMALL AND LARGE ROCKET ENGINES
R-3853-2 N64-14824 06-27

EFFECT OF INTERCHANGING PROPELLANTS IN COAXIAL INJECTION ON ROCKET COMBUSTOR PERFORMANCE
NASA-TN-D-2169 N64-14986 06-27

ATMOSPHERIC PHYSICS, ASTROPHYSICS, COSMIC BIOLOGY, ASTRONOMY, AND ROCKET ENGINES - PAST PROGRESS AND PROSPECTIVE DEVELOPMENTS
JPRS-23195 N64-15154 07-29

FEASIBILITY STUDY AND REQUIREMENTS OF NUCLEAR FISSION OR FUSION PROPELLED VEHICLE FOR INTERSTELLAR TRAVEL
NASA-CR-53072 N64-16068 07-29

COMBUSTION, PRESSURE LOSSES, AND PERFORMANCE MEASUREMENTS OF ROCKET ENGINE CARBURETOR BARRELS
N64-16214 08-27

ROCKET ENGINE ANALYZER AND DECISION INSTRUMENTATION - ROCKET PROPULSION SYSTEMS
NASA-CR-55842 N64-17675 09-30

TRAJECTORY EQUATIONS FOR BALLISTIC MISSILES AND LIQUID & SOLID FUELS FOR ROCKET ENGINES
JPRS-24024 N64-17972 10-30

USE OF RADIOACTIVE ISOTOPES IN HYDROGEN HEAT TRANSFER ROCKET FOR SPACE PROPULSION
ASD-TDR-63-787 N64-18047 10-27

EROSION CONTROL IN ROCKET ENGINE OF LAW WEAPON SYSTEM - ROCKET LAUNCHING DEVICE FOR ARMY
TM-1330 N64-20267 13-27

ROCKET ENGINE VALVE POPPET AND METAL-TO-METAL SEAT DESIGN DATA
R-5494 N64-21411 14-17

THEORETICALLY IDEAL ROCKET-RAMJET ENGINE COMBINATIONS
FTD-TT-63-864/1&2 N64-22139 15-27

LIQUID ROCKET SIMULATION OF SOLID PROPELLANT ROCKET EXHAUST CHARACTERISTICS

PA-TR-3165 N64-22380 15-27

FACILITY FOR TESTING ROCKET ENGINE PERFORMANCE AT HIGH ALTITUDE SIMULATED CONDITIONS
NASA-TM-X-989 N64-23329 16-30

BIBLIOGRAPHY ON AIR FORCE ROCKET PROPULSION LABORATORY
RPL-TDR-64-53 N64-23879 16-27

ATMOSPHERIC TRANSPORT AND DISPERSION OF ROCKET MOTOR COMBUSTION BY-PRODUCTS
MLPR-9 N64-24010 16-26

LARGE EFFECTIVE EXPANSION RATIO NOZZLES FOR SPACECRAFT ENGINES
NASA-CR-56547 N64-24033 16-02

SERVICEABILITY TEST FOR ROCKET MOTOR 14-DS-1000, MK 4 MOD 2, AND M8 MODELS
ODY-TR-64-759 N64-24235 17-27

PRINCIPAL VECTOR AND PRINCIPAL MOMENT OF REACTIVE AND CORIOLIS FORCES IN ROCKET ENGINES
NASA-TT-F-8693 N64-24910 17-26

GRAIN DESIGNS FOR HYBRID ROCKET ENGINES - OXYGEN-POLYMETHYL METHACRYLATE SYSTEMS
P-119 N64-25187 17-27

THERMODYNAMIC PROPERTIES OF ROCKET ENGINE COMBUSTION PRODUCTS
U-2666 N64-25343 17-13

PLASMA JET MATERIAL TESTING APPARATUS FOR PRELIMINARY EVALUATION OF COMPOSITE MATERIALS FOR ROCKET ENGINE COMPONENTS N64-25424 17-19

THEORY & DESIGN OF THERMAL ROCKET ENGINES USING LIQUID & SOLID PROPELLANTS
FTD-TT-63-454/1&2 N64-25453 17-27

COMPUTER PROGRAM FOR THRUST IN DUCT OF AIR AUGMENTED ROCKET POWER PLANT
NASA-CR-56832 N64-25570 17-27

HIGH FREQUENCY PRESSURE PHENOMENA ASSOCIATED WITH ROCKET ENGINES
NASA-CR-56973 N64-25774 17-27

THRUST VARIATION ANALYSIS OF TITAN II TRANSLATION ROCKET MOTOR
CR-64-113 N64-25989 18-27

BALLISTIC REPRODUCIBILITY OF ROCKET MOTOR FOR BLACK BRANT III VEHICLE
CARDE-TR-464/63 N64-26063 18-26

CALCULATIONS OF TEMPERATURE DISTRIBUTION & HEAT TRANSFER IN NUCLEAR ROCKET ENGINE
NSP-63-76 N64-26469 18-13

MAGNETOGASDYNAMIC ROCKET FOR SPACE PROPULSION
NASA-CR-54040 N64-26583 18-27

DATA SCATTER FROM STATIC FIRING TESTS OF 9KS-11000 ROCKET ENGINE
CARDE-TN-1543/64 N64-26742 18-27

FEASIBILITY OF IMPROVING LAUNCH VEHICLE BY USING AIR AUGMENTED ROCKET PROPULSION SYSTEM
NASA-CR-56890 N64-27277 19-27

HIGH FREQUENCY COMBUSTION OSCILLATIONS IN GASEOUS PROPELLANT ROCKET ENGINE N64-28096 20-26

COMBUSTION INSTABILITY IN BIPROPELLANT FUELED ROCKET ENGINES N64-28195 20-26

LIMITING COMBUSTION INSTABILITY AND IMPROVING COMBUSTION STABILITY IN ROCKET ENGINES N64-28584 20-26

EFFECT OF INJECTOR ON MOTOR PERFORMANCE IN ROCKET ENGINE COMBUSTION CHAMBER N64-28588 20-26

HEAT TRANSFER IN ROCKET THRUST CHAMBER N64-28590 20-13

HEAT TRANSFER INFORMATION FOR DESIGNING ROCKET ENGINE CHAMBERS AND NOZZLES N64-28591 20-13

ROCKET ENGINE IGNITION TIME DELAY N64-28592 20-26

COMBUSTION INSTABILITY IN LIQUID PROPELLANT ROCKET ENGINES N64-28594 20-26

RL-10 ROCKET ENGINE FOR CENTAUR UPPER STAGE SPACE VEHICLE
PWA-FR-950 N64-28697 20-27

PRODUCTION ENGINEERING OF METAL PARTS FOR LITTLEJOHN ROCKET MOTOR WITH FIN AND FIN BARREL ASSEMBLY
TR-3168 N64-28822 20-17

FORCES ON TETHERED BALLISTIC MISSILES DUE TO ENGINE CUT-OFF
ARC-CP-674 N64-28860 20-33

HISTORY OF ROCKET ENGINE DEVELOPMENT IN U.S.S.R. FROM 1932 TO 1942
FTD-TT-63-612/1&2 N64-29026 21-27

TEMPERATURE RATIOS FOR AIRCRAFT NUCLEAR PROPULSION REACTORS AND POSTULATED TEMPERATURES FOR NUCLEAR REACTOR IN ROCKET ENGINE - REACTOR THERMAL DESIGN PROBLEMS
NASA-CR-52956 N64-29789 21-27

OPTIMUM SUSPENDED PARTICLE SIZE FOR ACOUSTIC ATTENUATION IN ROCKET PROPELLANT COMBUSTION
ABL/X-115 N64-31030 22-23

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINE, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-19 N64-31577 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-20 N64-31578 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-21 N64-31579 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-22 N64-31580 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT SYSTEM, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-23 N64-31581 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT SYSTEM, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-24 N64-31582 23-27

GEMINI LAUNCH VEHICLE - RELIABILITY AND SUMMARY DATA ON YLR87-AJ-5 AND YLR91-AJ-5 ROCKET ENGINE
REPT.-393-3.4-M-12 N64-31584 23-27

ROCKET ENGINE FOR XM-7 AIRCRAFT CAPSULE EJECTION CATAPULT
PA-TM-1224 N64-32030 23-27

OPERATION AND HANDLING INSTRUCTIONS FOR BLACK BRANT ROCKET ENGINE
CARDE-TN-1629/64 N64-32073 23-27

FILM COOLING, NOZZLE EXPANSION, COMBUSTION INSTABILITY, AND ABLATIVE COOLING IN ROCKET THRUST CHAMBERS
REPT.-212/SA3-2.2-M-3 N64-32173 23-17

PRODUCTION OF MINUTEMAN ICBM SECOND STAGE ROCKET ENGINES
REPT.-0162-06QP-1 N64-32302 23-27

PERFORMANCE IMPROVEMENT OF SPHERICAL ROCKET MOTOR USING HIGH ENERGY POLYURETHANE PROPELLANT

HPR-17 N64-32676 23-27

REFRACTORY MATERIALS DEVELOPMENT FOR ROCKET ENGINE APPLICATIONS N64-32698 24-17

ENDOTHERMIC FUEL FOR ATLAS ROCKET MOTOR - TETRAISOBUTYLENE
RM-1084/362 N64-32959 24-26

PERFORMANCE AND STABILITY CHARACTERISTICS OF ROCKET ENGINE INJECTORS USING LIQUID OXYGEN PROPELLANT
NASA-TM-X-53126 N64-33870 24-27

ROCKET ENGINE DESIGN
AERODYNAMIC HINGE MOMENTS CAUSED BY EXTERNAL FLOW ON SATURN I, BLOCK I NOZZLE CONFIGURATIONS
NASA-TM-X-51071 N64-10104 01-27

DESIGN STUDY OF COOLED AND UNCOOLED NUCLEAR ROCKET ENGINE NOZZLES
NASA-CR-54000 N64-19479 12-27

TURBULENCE IN ARC PLASMA JET WITH ELECTROMAGNETIC INDUCTION
CPIA-48 N64-30012 21-01

ROCKET ENGINE NOISE
DYNAMIC ENVIRONMENT, ROCKET EXHAUST NOISE, BOUNDARY LAYER NOISE, AND RANDOM & SINUSOIDAL VIBRATION OF S- IV AND S- IVB VEHICLES N64-18542 11-30

ANALYSIS OF NOISE FROM ROCKET MOTORS
ONERA-TN-74 N64-25606 17-30

ROCKET ENGINE 015KS25000
PERFORMANCE SUMMARY OF 15KS25000 ROCKET ENGINE USED IN FIRST SIXTEEN BLACK BRANT VEHICLES
CARDE-TN-1525/63 N64-10419 01-31

ROCKET EXHAUST
MAGNETOHYDRODYNAMIC POWER GENERATOR WITH SUPERSONIC ROCKET EXHAUST AS WORKING FLUID
NAVWEPS-8111 N64-11539 03-27

COMPUTED CHEMICAL EQUILIBRIA OVER LONG RANGE OF HIGH TEMPERATURES BETWEEN ROCKET EXHAUST GASES AND COMPOUNDS OF TANTALUM, TUNGSTEN, AND HAFNIUM
U-2384/2 N64-12866 04-07

MEASURING INFRARED AND VISIBLE ELECTROMAGNETIC RADIATION EMANATING FROM MISSILE EXHAUST PLUMES
AFCRL-63-846 N64-13000 04-30

GUIDANCE DATA ATTENUATION BY EXHAUST PLUMES & PROBLEM OF MAINTAINING RELIABLE GROUND-MISSILE COMMUNICATIONS
RE-TR-63-61 N64-13639 05-08

ROCKET EXHAUST PLUME RADIATIVE HEAT TRANSFER TO ROCKET BASE
AIAA PAPER-64-60 N64-14150 05-13

ROCKET ENGINE EXHAUST PRODUCTS FROM HIGH ENERGY SOLID, LIQUID, & HYBRID PROPELLANT SYSTEMS
QR-7414-9 N64-14627 06-27

EROSION AND THERMAL SHOCK CHARACTERISTICS OF TUNGSTEN UNDER CONDITIONS OF SIMULATED ALUMINIZED ROCKET PROPELLANT EXHAUST N64-15821 07-18

RADIATIVE ENERGY TRANSFER TO BASE REGIONS OF ROCKET FROM EXHAUST PLUMES
NASA-CR-55832 N64-16710 08-13

REACTION STUDY OF ROCKET ENGINE EXHAUST PRODUCTS
QR-7414-10 N64-17869 10-26

COMPUTING ROCKET EXHAUST PLUMES WITH LAMINAR OR TURBULENT MIXING - GAS DYNAMICS
GD/A-63-1381 N64-18009 10-26

THERMODYNAMIC PROPERTIES AND FORMATION HEATS OF BERYLLIUM COMPOUNDS FOUND IN ROCKET EXHAUST
U-2485 N64-18177 10-26

DYNAMIC ENVIRONMENT, ROCKET EXHAUST NOISE, BOUNDARY LAYER NOISE, AND RANDOM & SINUSOIDAL VIBRATION OF S- IV AND S- IVB VEHICLES N64-18542 11-30

DIGITAL COMPUTER PROGRAMS FOR CALCULATING BEHAVIOR OF MATERIALS IN SOLID PROPELLANT ROCKET EXHAUST ENVIRONMENT
RTD-TDR-64-43 N64-21596 15-27

ALUMINUM AND ITS OXIDES AS SOURCES OR MODERATORS OF ELECTRONS IN SOLID PROPELLANT ROCKET EXHAUST
QSR-6 N64-21797 15-24

ALUMINUM AND ITS OXIDES AS SOURCES OR MODERATORS OF ELECTRONS IN SOLID PROPELLANT ROCKET EXHAUST
AD-431259 N64-22130 15-27

PENETRATION DISTANCE OF RETROROCKET EXHAUST PLUMES INTO ONCOMING FREE STREAM
SSD-TDR-64-23 N64-22319 15-27

LIQUID ROCKET SIMULATION OF SOLID PROPELLANT ROCKET EXHAUST CHARACTERISTICS
PA-TR-3165 N64-22380 15-27

TRANSIENT PUMPING CHARACTERISTICS OF SUPERSONIC EJECTOR SYSTEM OF ROCKET ENGINE EXHAUST STREAM
ASME PAPER-64-FE-9 N64-22496 15-17

ACOUSTIC EFFICIENCY TRENDS PRODUCED BY ROCKET TURBULENT EXHAUST FLOW
NASA-TN-D-1999 N64-22747 16-30

FIELD SPECTROGRAPH FOR HIGH RESOLUTION SPECTRAL ANALYSIS OF ROCKET EXHAUST PLUMES FOR AEROSPACE VEHICLE DETECTION N64-23009 16-15

FLAME TEMPERATURES OF ROCKET EXHAUST GASES
REPT.-103-8 N64-24805 17-26

TRANSONIC ASPECTS OF HYPERVELOCITY ROCKET PLUMES N64-26333 18-11

COMPUTER PROGRAM FOR THRUST AUGMENTATION BY ADDING AIR TO FUEL-RICH ROCKET EXHAUST
NASA-CR-56842 N64-27288 19-27

SOLID PROPELLANT ROCKET EXHAUST EFFECTS ON LAUNCH FACILITIES
NASA-CR-58074 N64-27877 20-26

APPROXIMATE METHOD FOR CALCULATING FAR FLOW FIELD PROPERTIES OF ROCKET EXHAUSTING INTO VACUUM
U-2630 N64-28013 20-11

HIGH TEMPERATURE THERMOCOUPLE DEVELOPMENT TO MEASURE ROCKET ENGINE EXHAUST DURING OXIDATION, EROSION, VIBRATION, AND SHOCK
NASA-CR-58568 N64-29548 21-15

HIGH TEMPERATURE THERMOCOUPLE FOR ROCKET EXHAUST TEMPERATURE MEASUREMENT
NASA-CR-58569 N64-29568 21-15

KINETICS OF ROCKET EXHAUST GASES - FLAME IMAGE AND FLAME TEMPERATURE DETERMINATION
REPT.-103-9 N64-29675 21-26

PHYSICAL AND THERMODYNAMIC PROPERTIES OF ROCKET EXHAUST PRODUCTS
QR-7414-11 N64-30140 21-07

UPPER ATMOSPHERIC MODIFICATION OF ROCKET EXHAUST-RADAR INTERACTION
AEROCHEM-TP-98 N64-30487 22-26

HEATING RELATED TO IMPINGEMENT OF ROCKET EXHAUST ON SPACE SUIT SURFACES AND PERFORMANCE OF INERT HEATED GASES AS PROPELLANTS
ASD-TDR-63-729 N64-32645 23-26

OPTICAL SPECTRA OF LOW MOLECULAR WEIGHT COMPOUNDS FORMED IN EXHAUST GASES OF ROCKET MOTORS
IITRI-C6013-5 N64-32962 24-07

ROCKET FLIGHT
ENVIRONMENTAL NUCLEAR RADIATION ASPECTS OF ROCKET FLIGHT OPERATIONS N64-14571 06-30

PHYSICAL PRINCIPLES OF ROCKET FLIGHT - JET

PROPULSION, THRUST PRODUCTION, STABILIZATION AND CONTROL, AND GUIDED MISSILE FLIGHT
FTD-TT-63-345/1&2 N64-29275 21-27

ROCKET LAUNCHING DEVICE
MAMMOTH ROCKET LAUNCHING DEVICE OR LUNAR ORBITAL RENDEZVOUS - PROBLEM OF GETTING LUNAR VEHICLE TO MOON
JPRS-17524 N64-10478 01-31

EROSION CONTROL IN ROCKET ENGINE OF LAW WEAPON SYSTEM - ROCKET LAUNCHING DEVICE FOR ARMY
TM-1330 N64-20267 13-27

FLIGHT IN ROCKET LAUNCHING AIRCRAFT DURING TRAINING MISSION
FTD-TT-63-97/1 N64-21929 15-30

DYNAMIC RESPONSE OF LAUNCHER UNDERSTRUCTURE DURING SIMULATED ROCKET LOADING
REPT.-10 N64-30052 21-10

DYNAMIC LOAD AND INTERNAL PRESSURE IN ROCKET LAUNCHER FIRING TESTS
NAVWEPS-8501 N64-33721 24-10

ROCKET LINER
REFRACTORY ROCKET LINER MATERIALS - SUMMARY OF THEORETICAL THERMOCHEMICAL CORROSION STUDIES
U-2384 N64-12812 04-19

ROCKET MEASUREMENT
INFRARED RADIATION AND THERMAL RADIATION RESULTS OF ROCKET MEASUREMENTS OF EARTH RADIATION
JPRS-17588 N64-10701 02-23

LOW FREQUENCY IONOSONDE INVESTIGATIONS AND ROCKET MEASUREMENTS IN D-REGION AND LOWER E-REGION
AFCRL-63-924 N64-15952 07-12

INSTRUMENTATION FOR FAR ULTRAVIOLET ROCKET SPECTROPHOTOMETRY
NASA-TN-D-2250 N64-17992 10-15

BIOLOGICAL AND PHYSIOLOGICAL STUDIES IN ROCKET AND SATELLITE FLIGHTS N64-23737 16-16

ROCKET-BORNE MEASUREMENT OF MIDLATITUDE AIRGLOW AND PARTICLE PRECIPITATION
NASA-CR-58356 N64-28755 20-12

DENSITY, PRESSURE, AND COMPOSITION OF RAREFIED GAS LAYERS OF ATMOSPHERE FROM ROCKET OR SATELLITE RECORDINGS N64-32334 23-12

ROCKET MEASUREMENT OF ELECTRON DENSITY IN LOW IONOSPHERE
NASA-RP-347 N64-32641 23-12

ROCKET MEASUREMENTS OF AEROLOGICAL CONDITIONS IN STRATOSPHERE AND MESOSPHERE
AD-444803 N64-33301 24-21

ROCKET MOTOR CASE
STEEL STRIP BRAZING TECHNIQUE FOR ROCKET MOTOR CASE FABRICATION
ASD-TR-T-912/7/ N64-11737 03-17

METALLURGICAL EVALUATION, HYDROBURST AND STATIC TESTING OF HELICAL WRAPPED ROCKET MOTOR CASES
N64-11962 03-34

LOAD ANALYSIS OF BLADE SUPPORT STRAPS FOR X258 ROCKET CASE
SSE-5-164 N64-12034 03-30

RUPTURE TEST OF WELDED TITANIUM ALLOY ROCKET MOTOR CASE
A515 N64-12153 03-33

POLYMERS SUITABLE FOR CASE INSULATION IN END-BURNING SOLID PROPELLANT ROCKET MOTORS
AD-421808 N64-12359 03-19

PHYSICAL & MECHANICAL PROPERTIES OF ALLOYED HIGH-STRENGTH STEELS FOR SOLID PROPELLANT ROCKET MOTOR CASES
AD-424490 N64-12934 04-18

ROCKET MOTOR CASE OF REENTERING SPACECRAFT AT HYPERSONIC SPEED IN HELIUM
NASA-TN-D-2057 N64-12959 04-30

CRYOGENIC STRETCH-FORMING OF SOLID PROPELLANT ROCKET MOTOR CASES
AD-403459 N64-12985 04-26

FLIGHT-WEIGHT ROCKET MOTOR CASES PRODUCED BY CRYOGENIC STRETCH-FORMING
AD-409155 N64-12991 04-26

FILAMENT WOUND BOTTLES AND POLARIS MOTOR CASES - TESTING FOR FLAW EFFECTS, WINDING SEQUENCE EFFECT, AND REPAIR TECHNIQUE RELIABILITY
GER-11154/53 N64-13307 04-34

CRYOGENIC STRETCH-FORMING OF SOLID PROPELLANT ROCKET MOTOR CASES
AD-420080 N64-14042 05-17

FILAMENT WOUND ROCKET MOTOR CASES - MATERIALS, WINDING TECHNIQUE, PROCESS CONTROL, & TEST METHODS
AD-425147 N64-14314 06-34

HIGH STRENGTH, LIGHTWEIGHT, LAMINATED, LAP-JOINT PRESSURE VESSELS FOR ROCKET MOTOR CASES
WAL-TR-766.2/3-5 N64-14640 06-34

ALLOYS FOR FUTURE SOLID PROPELLANT ROCKET MOTOR CASES
DMIC-MEMO-184 N64-15764 07-27

ROCKET MOTOR CASE MATERIALS EVALUATION INCLUDING RESULTS FOR TITANIUM, STAINLESS STEEL, & TEXTURED TITANIUM N64-15849 07-33

CRYOGENIC STRETCH-FORMING OF SOLID PROPELLANT ROCKET MOTOR CASES
AD-430537 N64-16475 08-17

MANUFACTURE OF SPARROW ROCKET MOTOR CASE BY CRYOGENIC STRETCH-FORMING TECHNIQUE
AD-430358 N64-17310 09-17

RADIOMETER AND SLUG-TYPE CALORIMETER IN SOLID PROPELLANT ROCKET MOTOR
ABL/Z-60 N64-17333 09-13

X-RAY TELEVISION AND SCAN-CONVERSION IMAGE STORAGE SYSTEMS FOR STORAGE OF VIDEO SIGNALS ON MAGNETIC TAPES - TESTING ROCKET MOTOR CASES
WAL-TR-142.5/2-4 N64-18612 11-17

X-RAY SCAN TELEVISION SYSTEM FOR INSPECTION OF FIBERGLASS REINFORCED PLASTIC ROCKET MOTOR CASES
WAL-TR-142.5/2-6 N64-18613 11-17

TELEVISION X-RAY SYSTEM FOR INSPECTION OF FIBER-GLASS REINFORCED PLASTIC ROCKET MOTOR CASES
WAL-TR-142.5/2-7 N64-18614 11-17

TELEVISION X-RAY SYSTEM FOR INSPECTION OF FIBER-GLASS REINFORCED PLASTIC ROCKET MOTOR CASES
WAL-TR-142.5/2-7A N64-18615 11-17

METALLURGICAL HEAT TREATMENT OPTIMIZATION - RESULTS AND HYDROBURST PROCEDURE IN TESTING MARAGING STEEL CAPABILITIES FOR ROCKET MOTOR CASES
WADR-407-3 N64-18741 11-34

HIGH STRENGTH LIGHTWEIGHT TITANIUM ALLOY PRESSURE VESSEL FOR SOLID FUEL ROCKET MOTOR CASES
WAL-TR-766.2/1-13 N64-20383 13-33

FORGING OF FRONT AND REAR CLOSURES FOR TITANIUM ROCKET MOTOR CASES
WAL-TR-766.2/1-14, VOL. I N64-20908 14-17

RING-ROLLING AND FLOW TURNING TECHNIQUES FOR CYLINDRICAL SECTIONS OF TITANIUM ROCKET MOTOR CASES
WAL-TR-766.2/1-14, VOL. II N64-20909 14-17

WELDING PROCESSES FOR FABRICATION OF TITANIUM ROCKET MOTOR CASE
WAL-TR-766.2/1-14, VOL. III N64-20910 14-17

FULL SCALE COMPONENT RELIABILITY TEST FOR TITANIUM

ROCKET MOTOR CASE
WAL-TR-766.2/1-14, VOL. IV N64-20911 14-17

EVALUATING TITANIUM ALLOYS FOR USE IN ROCKET MOTOR CASES
WAL-TR-766.2/1-14, VOL. V N64-20912 14-18

ROCKET MOTOR CASE EVALUATION
REPT.-14-64 N64-21405 14-18

CRYOGENIC STRETCH-FORMING OF SOLID PROPELLANT ROCKET MOTOR CASES
QR-7 N64-21675 15-17

STRENGTH AND FRACTURE TOUGHNESS OF NICKEL-COBALT MOLYBDENUM MARAGING STEEL FOR HEAVY AND THIN WALL ROCKET MOTOR CASES
REPT.-3448 N64-21984 15-18

ULTRAHIGH STRENGTH NICKEL MARAGING STEEL SOLID PROPELLANT ROCKET MOTOR CASES
WAD-R-401-4 N64-22502 15-34

MANUFACTURING TECHNIQUES FOR SHEAR SPINNING OF ROCKET MOTOR CASES
AMC-TR-63-7-711 N64-22693 15-17

WINDING RESIN-BONDED GLASS FILAMENT AND TITANIUM ALLOY ROCKET MOTOR CASE
PWA-2336 N64-22721 15-27

REINFORCED PLASTIC CONSTRUCTION METHODS FOR LARGE ROCKET MOTOR CASE - SURVEY
TR-63-7-858, VOL. I N64-26192 18-15

TOUGHNESS CHARACTERISTICS OF AIR & VACUUM MELT MATERIAL FOR SOLID PROPELLANT MOTOR CASES
RK-TR-64-11 N64-26255 18-18

REINFORCED PLASTIC CONSTRUCTION METHODS FOR LARGE ROCKET MOTOR CASE - DESIGNS
TR-63-7-858, VOL. II N64-26342 18-17

REINFORCED PLASTIC CONSTRUCTION METHODS FOR LARGE ROCKET MOTOR CASE - TU-228 CASE DESIGN
TR-63-7-858, VOL. III N64-26343 18-17

REINFORCED PLASTIC CONSTRUCTION METHODS FOR LARGE ROCKET MOTOR CASE - TU-290 CASE FABRICATION
TR-63-7-858, VOL. IV N64-26344 18-17

REINFORCED PLASTIC CONSTRUCTION METHODS FOR LARGE ROCKET MOTOR CASE - MANDRELS
TR-63-7-858, VOL. V N64-26345 18-17

REINFORCED PLASTIC CONSTRUCTION METHOD FOR LARGE ROCKET MOTOR CASE - STRESS ANALYSIS
TR-63-7-858, VOL. VI N64-26346 18-17

CRYOGENIC STRETCH FORMING OF FLIGHT-WEIGHT ROCKET MOTOR CASES SIMILAR TO PERSHING MISSILE
QR-8 N64-29714 21-17

ULTRAHIGH STRENGTH CASES FOR SOLID PROPELLANT ROCKET ENGINES OF MARAGING STEEL
WAD-R-407F N64-30969 22-17

LARGE ROCKET MOTOR CASES OF HEAVY WALL THICKNESS - FABRICATION BY CRYOGENIC STRETCH-FORMING
TPR-4 N64-31133 22-17

SOLID ROCKET MOTOR NOZZLE ENVIRONMENT IN COLD FLOW MODELING AND MOTOR FIRINGS
U-2709 N64-31926 23-26

TITANIUM, VANADIUM, AND CHROMIUM ALLOY COMPOSITE ROCKET MOTOR CASE
PWA-2364 N64-33649 24-27

ROCKET NOZZLE
TUNGSTEN-SILVER ROCKET NOZZLE MATERIAL - PLASTIC DEFORMATION
WAL-TR-372/32-8-T3 N64-10864 02-18

USE OF PYROLYTIC GRAPHITE IN UNCOOLED NOZZLES OF SOLID PROPELLANT ROCKET ENGINES
AD-401115 N64-10865 02-07

BOOST AND SUSTAINER ROCKET NOZZLES TO DETERMINE EFFECTS OF BASE BLEED, SUSTAINER NOZZLE DIAMETER, AND LONGITUDINAL POSITION ON BASE DRAG OF BODY
RF-TR-63-23 N64-12707 04-02

TUNGSTEN METALLURGY RESEARCH - MELTING & CASTING, JOINING, ROCKET NOZZLE FABRICATION, AND HIGH TEMPERATURE REACTIONS
DMIC-193 N64-13845 05-18

PRESSURE DISTRIBUTION ON EXTERNAL SURFACES OF NOZZLE, BASE AND SHROUDS OF SATURN I VEHICLE
NASA-TN-D-1962, SUPPL. N64-14063 05-02

PHYSICAL AND CHEMICAL PROPERTIES OF HIGH TEMPERATURE MATERIALS FOR ROCKET NOZZLES
AD-426741 N64-14101 05-19

SOLID PROPELLANT ROCKET NOZZLE INTERNAL FLOW ENVIRONMENT
RTD-TDR-63-1075 N64-14140 05-18

COMPUTER PROGRAM FOR ANALYZING BEHAVIOR OF MATERIALS UNDER EXPOSURE TO SOLID PROPELLANT ROCKET NOZZLE ENVIRONMENT
RTD-TDR-63-1076 N64-14686 06-19

DIGITAL COMPUTER STUDY OF SELF-COOLED ROCKET NOZZLE AND MATERIAL TESTS FOR SMALL AND LARGE ROCKET ENGINES
R-3853-2 N64-14824 06-27

SELF-COOLED ROCKET NOZZLE - POROUS TUNGSTEN FABRICATION, TESTING, AND THEORETICAL ANALYSIS, BY SINTERED POWDER METALLURGY
R-3853-4 N64-14825 06-27

METHOD FOR CALCULATING RATES OF MATERIAL ABLATION IN ROCKET NOZZLES
AIAA PAPER-64-101 N64-14852 06-13

COOLING SOLID PROPELLANT MOTOR NOZZLE WITH LIQUID LITHIUM
RT-TR-63-13 N64-15065 07-27

OPTIMUM TECHNIQUES FOR FABRICATION OF TITANIUM BORONITRIDE ROCKET NOZZLES
TR-371.9/6 N64-15381 07-27

AIR, NITROGEN, AND HYDROGEN GAS-SIDE CONVECTIVE HEAT TRANSFER TO NUCLEAR ROCKET NOZZLES USING SHOCK TUBE TECHNIQUES
NASA-CR-55712 N64-15893 07-13

HEAT TRANSFER TO NUCLEAR ROCKET NOZZLES USING SHOCK TUBE TECHNIQUES
NASA-CR-55713 N64-15894 07-13

HIGH TEMPERATURE MATERIALS FOR ROCKET NOZZLES AND INSERTS
REPT.-9-64 N64-16501 08-27

THERMAL SHOCK EVALUATION OF REFRACTORY MATERIALS AS ROCKET NOZZLE INSERTS
NRL-6005 N64-16589 08-27

THERMAL SHOCK EVALUATION OF REFRACTORY MATERIALS AS ROCKET NOZZLE INSERTS N64-16590 08-27

METALLURGICAL EXAMINATION OF FIRED TUNGSTEN ROCKET NOZZLE INSERTS N64-16591 08-27

METALLURGICAL EXAMINATION OF TUNGSTEN ROCKET NOZZLE INSERTS N64-16592 08-27

TITANIUM BORONITRIDE ROCKET NOZZLE PRODUCTION TECHNIQUES
TR-371.9/7 N64-18198 10-27

SOLID PROPELLANT ROCKET ENGINE NOZZLE ENVIRONMENT
U-2543 N64-18256 10-27

CONVECTION LIQUID METAL HEAT TRANSMISSION IN ROCKET NOZZLE
ABL/Z-69 N64-18791 11-13

COOLED AND UNCOOLED ROCKET NOZZLE, FOR SOLID PROPELLANT ROCKET MOTORS
RPL-TDR-64-8 N64-19411 12-27

DESIGN STUDY OF COOLED AND UNCOOLED NUCLEAR ROCKET ENGINE NOZZLES
NASA-CR-54000 N64-19479 12-27

GAS DISSOCIATION, ROCKET NOZZLE FLUID DYNAMICS, & MOLECULAR BEAM CHEMICAL KINETICS
SR-4-4 N64-20564 13-01

DYNAMICS OF TWO-PHASE FLOW IN ROCKET NOZZLES
UTC-2005-QT11 N64-21983 15-11

METALLIC AND NONMETALLIC EXPANDABLE ROCKET NOZZLES
REPT.-8290-4S N64-22238 15-27

RADIATION COOLED NUCLEAR ROCKET NOZZLE FOR LONG FIRING DURATION
AIAA PAPER-64-389 N64-24911 17-27

ANALYSIS OF SELF-COOLING OF ROCKET NOZZLES
R-5323 N64-25384 17-03

PYROLYTIC GRAPHITE COATED SOLID PROPELLANT ROCKET NOZZLES
QPR-1 N64-25402 17-27

HIGH TEMPERATURE CHEMICAL & PHYSICAL PROPERTIES OF ROCKET NOZZLE MATERIALS
AD-442218 N64-25554 17-11

DISSOCIATED GAS STUDIES, MOLECULAR BEAM CHEMICAL KINETIC STUDIES, AND ROCKET NOZZLE FLUID DYNAMICS
SR-4-53 N64-25724 17-11

ADVANCEMENT OF SELF-COOLED ROCKET NOZZLE CONCEPT
R-3853-5 N64-26680 18-27

CASTABLE CARBON FOR ROCKET NOZZLE APPLICATION
RPL-TDR-64-76 N64-26889 18-19

FILM PROTECTED CONVECTIVELY COOLED NOZZLES
U-2621 N64-26977 19-02

GRAPHITE COMPOSITE MATERIALS FOR HEAT SHIELD OR ROCKET NOZZLE N64-27033 19-19

HIGH EFFECTIVE AREA RATIO NOZZLES FOR SPACECRAFT ENGINES
NASA-CR-56978 N64-27286 19-02

METALLURGICAL JOINING OF REFRACTORY ELEMENTS FOR POWER PLANTS AND NOZZLE THROAT OF ROCKETS N64-27601 19-18

AERODYNAMIC CHARACTERISTICS OF ROCKET NOZZLES N64-28184 20-27

HEAT TRANSFER INFORMATION FOR DESIGNING ROCKET ENGINE CHAMBERS AND NOZZLES N64-28591 20-13

LIQUID LITHIUM FOR COOLING SOLID PROPELLANT ROCKET NOZZLES
A-P-FR-5601 N64-29752 21-13

CALCULATING INSIDE WALL SURFACE TRANSIENT TEMPERATURES FOR SOLID PROPELLANT ROCKET NOZZLES
ABL/Z-73 N64-29896 21-13

LITHIUM AS LIQUID METAL COOLANT FOR SOLID PROPELLANT ROCKET NOZZLE
A-P-FR-5601, VOL.2 N64-30632 22-13

BEHAVIOR OF ROCKET NOZZLE MATERIALS EXPOSED TO HIGH HEAT FLUX AND HIGH VELOCITY GAS FLOW
QPR-1 N64-30960 22-19

FILM PROTECTED CONVECTIVELY COOLED NOZZLE FOR ADVANCED SOLID ROCKET
RPL-TDR-64-124 N64-30965 22-27

FEASIBILITY OF PYROLYTIC GRAPHITE COATINGS FOR UNCOOLED SOLID PROPELLANT ROCKET NOZZLES
RPL-TDR-64-129 N64-30974 22-17

CASTABLE CARBON ROCKET NOZZLE - SUBSCALE FABRICATION
RPL-TDR-64-130 N64-31077 22-17

BOUNDARY LAYER LAMINARIZATION EFFECT ON HEAT FLUX OF ROCKET NOZZLE THROAT REGION
C-910100-11 N64-31318 22-11

SOLID ROCKET MOTOR NOZZLE ENVIRONMENT IN COLD FLOW MODELING AND MOTOR FIRINGS
U-2709 N64-31926 23-26

HIGH TEMPERATURE GAS FLOW RESEARCH - DISSOCIATED GASES, MOLECULAR BEAM CHEMICAL KINETICS, AND ROCKET NOZZLE FLUID DYNAMICS
SR-4-2 N64-32281 23-26

VAPOR DEPOSITION OF TUNGSTEN COATING ON GRAPHITE- AND RHENIUM-LINED GRAPHITE ROCKET NOZZLES
BN-RI-6464 N64-32418 23-17

ROCKET NOZZLE AND HOT GAS DUCT MATERIAL TESTING
U-2577 N64-32511 23-17

PHYSICAL AND CHEMICAL PROPERTIES AFFECTING HIGH TEMPERATURE MATERIALS FOR ROCKET NOZZLES
AD-448482 N64-32547 23-07

ROCKET NOZZLE MATERIALS PROBLEM - REFRACTORY MATERIAL, PROTECTIVE COATINGS, AND COOLING SYSTEM
AMRA-MS-63-06 N64-32692 24-17

SOLID PROPELLANT ROCKET NOZZLE TESTING - SIMILITUDE OBSERVATIONS N64-32693 24-17

SIMULATION AND SCALE-UP EFFECTS ON PERFORMANCE OF ROCKET NOZZLE MATERIALS N64-32694 24-17

MATERIALS AND COOLANT SYSTEMS FOR SOLID PROPELLANT ROCKET NOZZLES N64-32695 24-13

ROCKET NOZZLE MATERIAL DEVELOPMENT - VAPOR DEPOSITION OF TUNGSTEN AND TANTALUM, AND TUNGSTEN CASTING N64-32696 24-17

OPTIMIZATION OF ELECTRODEPOSITED HIGH TEMPERATURE PROTECTIVE COATINGS FOR ROCKET NOZZLES N64-32697 24-17

COPPER-COOLED TUNGSTEN FIBER MATERIALS FOR ROCKET NOZZLES N64-32699 24-18

PROBLEMS ASSOCIATED WITH RESTART OF NOZZLES FOR SOLID PROPELLANT ROCKET ENGINES - THERMAL, STRUCTURAL, AND CORROSION ANALYSIS
U-2794 N64-33976 24-27

ROCKET PROJECT
SHORT-TERM VARIATIONS OF ROCKET WINDS FOR METEOROLOGICAL ROCKET NETWORK
USAELRDL-TR-2369 N64-20333 13-21

ROCKET SOUNDING
ROCKET SOUNDING IN THE MESOSPHERE
NASA-TM-X-54618 N64-16725 08-12

ATMOSPHERIC ACOUSTIC STRUCTURE DETERMINATION FROM ROCKET SOUNDING DATA
ERDA-127 N64-18356 10-21

NEUTRAL AND IONIC COMPOSITION OF UPPER ATMOSPHERE BASED ON ROCKET SOUNDING RESULTS N64-26962 19-12

MASS SPECTROMETERS FOR USE IN ROCKET SOUNDING INSTRUMENTATION N64-26963 19-15

MEASUREMENTS OF RADIO NOISE FROM HIGH ALTITUDE ROCKET PROBE
TR-1 N64-29803 21-08

NITRIC OXIDE DAYGLOW MEASUREMENT BY ULTRAVIOLET SPECTROMETER ABOARD AEROBEE ROCKET
JPL-TR-32-640 N64-31239 22-12

METEOROLOGICAL ROCKET PROBES IN MARCH 1964
IRIG-MWG-31-64 N64-31888 23-32

WIND AND TEMPERATURE DATA FROM ROCKET SOUNDINGS
IRIG-MWG-27-63 N64-32366 23-32

ROCKET STEERING MOTOR
S STEERING

ROCKET THRUST
SOLUTIONS FOR KNUDSEN FLOW FLUX DISTRIBUTIONS WITH PARTICLES ENTERING CIRCULAR TUBE THROUGH SMALL AXIAL ORIFICE - ROCKET THRUSTOR APPLICATION
NASA-TN-D-2115 N64-14520 06-11

EXPERIMENTAL HEAT TRANSFER IN ROCKET THRUST CHAMBER N64-28589 20-13

ROCKET THRUST STAND SIMULATION OF SPACE VEHICLE FLIGHT DYNAMICS BY ELECTROMECHANICAL SYSTEM
AEDC-TDR-64-163 N64-29442 21-10

OPTIMUM THRUST-CONTROL REGIMES FOR ROCKETS CONSIDERING EARTH MOTION
FTD-TT-64-615/1&3&4 N64-30109 21-27

LATERAL FORCE EXPERIMENT STUDIES ON THRUST CONTROL OF SOLID FUEL PROPULSION ROCKETS
NASA-TT-F-9046 N64-31563 23-27

ROCKET VEHICLE
MANAGEMENT PLANNING AND TECHNICAL FACILITIES FOR MISSILE AND ROCKET SYSTEMS
AD-406208 N64-11640 03-10

PARAMETERS AFFECTING STRUCTURAL WEIGHT OF ROCKET VEHICLE NOSE CONE
NASA-TM-X-50988 N64-12161 03-30

ORBITAL TRANSFER OF ROCKET HAVING MOMENTUM, THRUST AND WEIGHT LOSS AT CONSTANT RATE WITH MINIMUM FUEL CONSUMPTION
AD-425513 N64-12328 03-29

VISCOELASTIC ANALYSIS OF STRUCTURAL INTEGRITY OF AXIALLY ACCELERATED ROCKET WITH ABLATING BOUNDARY EFFECT
AIAA PAPER-64-151 N64-14855 06-13

HIGH RESOLUTION TELEMETRY SYSTEM FOR DIAGNOSTIC ROCKETS N64-16153 08-08

ROCKET BOOSTER CONTROL - QUADRATIC PENALTY FUNCTION CRITERION AND LINEAR CONTROL OF FLEXIBLE VEHICLES
NASA-CR-53121 N64-16754 08-30

PREDICTION OF ACOUSTIC VIBRATION RESPONSE OF ROCKET VEHICLE STRUCTURES N64-18538 11-33

LOW DENSITY POLYURETHANE FOAM WITH MYLAR AND ALUMINUM FOIL THIN-FILM SEAL AS INSULATION SYSTEM FOR LIQUID HYDROGEN TANKS OF ROCKET VEHICLES N64-19371 12-13

DESIGN CONCEPT FOR ORBITAL/GLOBAL ROCKET TRANSPORT - PEGASUS VEHICLE
DOUGLAS PAPER-1980 N64-28807 20-32

GUIDING ION ENGINE ROCKETS INTO SPACE USING ELECTRIFIED RAILS ALIGNED IN SPACE BY SMALL ENGINES
FTD-TT-64-620/1 N64-29664 21-30

CHEMICAL AGENTS FOR ROCKET VEHICLE PRODUCTION OF SMOKE TRAILS FOR WIND SHEAR MEASUREMENTS
NASA-TN-D-2277 N64-30095 21-07

DIGITAL COMPUTER ANALYSIS OF LAUNCH DYNAMICS OF FLEXIBLE ROCKET VEHICLE
NASA-CR-60021 N64-33619 24-10

ROCKETRY
ROCKETRY AND SATELLITE DATA N64-20527 13-32

ROCKOON
S BALLOON

ROD
TWIN-ROD CONDUCTION CALORIMETER FOR ROUTINE ASSAY OF SMALL RADIOACTIVE SOURCES
UCRL-7488 N64-11580 03-23

THERMAL & HYDRAULIC CHARACTERISTICS OF ROD BUNDLES COOLED BY FORCED FLOW OF WATER WITH BULK BOILING AT HIGH PRESSURE
DP-857 N64-11777 03-13

DYNAMIC STRAINS IN RODS MEASURED WITH BIREFRINGENT STRIPS
BRL-1211 N64-12383 03-33

PROPAGATION OF ELASTIC-PLASTIC WAVES IN ROD OF FINITE LENGTH
FTD-TT-63-506/1&2 N64-16373 08-23

SURFACE TRANSFORMATIONS IN IMPACTED STEEL RODS
ERR-FW-213 N64-16631 08-18

MAXIMUM LIFETIME OF RODS DURING BENDING - CREEP ANALYSIS
RSIC-145 N64-19120 11-33

SINGLE CRYSTALS OF URANIUM MONOCARBIDE PREPARED FROM ARC-MELTED RODS
NAA-SR-7465 N64-19711 12-25

INTERNAL ENERGY AND DEFORMATION IN ROD-TO-ROD IMPACT N64-25347 17-23

STATISTICAL METHOD FOR EVALUATING URANIUM-235 HOMOGENEITY IN REACTOR FUEL RODS
NAA-SR-9600 N64-26702 18-23

THERMOCONDUCTIVITY OF THERMOCOUPLE GRADE CONSTANTAN ROD
NASA-CR-56932 N64-27298 19-18

DYNAMIC STABILITY OF SIMPLY SUPPORTED AND CLAMPED ROD
SSD-TDR-64-21 N64-27469 19-23

EFFECTS OF ROD WIDTH AND WAVEGUIDE HEIGHT ON FERRITE PHASE SHIFTER
NRL-6112 N64-29874 21-25

STRESS WAVE PROPAGATION IN FINITE VISCOELASTIC THIN ROD
A&ES-64-2 N64-30562 22-33

ROLL
PREDICTION THEORY IN REFERENCE TO DISCRETE TIME SERIES FOR LONG-RANGE OCEAN ACTIVITY, ROLL AND VIBRATION RESPONSE
MAC-307-01 N64-18268 10-12

ROLL FORMING
STRIP ROLLING & ELECTROSLAG RESMELTING MOLYBDENUM
JPRS-22285 N64-11600 03-17

STEEL MANUFACTURING IMPROVEMENTS IN USSR
FTD-TT-63-716/1 N64-12844 04-17

NIOBIUM ALLOY SHEET ROLLING
AD-424593 N64-13109 04-18

SOVIET SHEET ROLLING TECHNOLOGY
JPRS-23596 N64-17021 09-17

ROLLING COBALT POWDER INTO STRIP N64-17022 09-17

ROLLING TITANIUM INTO HIGHLY POROUS STRIP FOR FILTERS N64-17023 09-17

POWDER METALLURGY - METAL ROLLING N64-17208 09-18

COLD-ROLLING UNDER TENSION FROM 0.1 TO .015 INCH - NIOBIUM AND TANTALUM ALLOYS
AD-422001 N64-17616 09-17

PROCESSING OF NIOBIUM AND TANTALUM BASE ALLOYS FROM INGOT TO SHEET, ROLLING OF PURE TUNGSTEN SHEET
AD-418544 N64-17617 09-17

ROLLING OF NIOBIUM, TANTALUM, AND TUNGSTEN BASE ALLOY INTO FOIL
AD-434397 N64-18067 10-17

EXTRUSION, FORGING, ROLLING, AND SWAGING OF TUNGSTEN-BASE ALLOYS
ASD-TDR-62-670, PT. 2 N64-18577 11-18

RING-ROLLING AND FLOW TURNING TECHNIQUES FOR CYLINDRICAL SECTIONS OF TITANIUM ROCKET MOTOR

CASES
WAL-TR-766.2/1-14, VOL. II N64-20909 14-17

CONSTRUCTION OF ROLL FORMING MILLS IN USSR
FTD-TT-62-1216/1&2&3&4 N64-22621 15-17

ROLLING
HOT ROLLING OF MOLYBDENUM IN VACUUM, ARGON, AND AIR
JPRS-21757 N64-10173 01-18

WORKABILITY AND PRACTICAL EMPLOYMENT OF SINTERED ALUMINUM PRODUCTS - EXTRUSION, DRAWING, & ROLLING
EUR-428.I N64-10450 01-17

METAL DEFORMATION AND INDUCTION HEATING DURING ROLLING OF GEARS - COMPARISON WITH MACHINED GEARS
JPRS-19273 N64-10509 01-17

EXPERIMENTAL METAL-CERAMIC ROLLING MILL
JPRS-19253 N64-10652 01-17

CRYSTAL STRUCTURE DEFECTS AND ROLLING POWDERED METALS AND ALLOYS
JPRS-17613 N64-11525 03-01

RELATIONSHIPS OF COERCIVE FORCES OF MAGNETICALLY-SOFT MATERIALS TO THE THICKNESS OF SHEET MADE FROM ROLLED POWDERS N64-11526 03-18

PHYSICAL PROPERTIES, ROLLING, AND SINTERING METAL POWDERS
JPRS-22933 N64-15006 07-01

ROLLING OF METAL POWDERS N64-15009 07-17

SHEET ROLLING OF NIOBIUM ALLOYS
AD-430773 N64-16438 08-17

EXTRUSION, FORGING, ROLLING, AND SWAGING OF TUNGSTEN-BASE ALLOYS
ASD-TDR-62-670, PT. 2 N64-18577 11-18

TWO-LAYER STEEL FABRICATION - PREPARATION OF PLATES AND BLANKS, CASTING, HEATING AND ROLLING OF TWO-LAYERED INGOTS
JPRS-24422 N64-19302 12-18

ULTRASONIC ENERGY APPLIED TO ROLLING PROCESS FOR SHEET METALS
AD-438937 N64-21574 15-17

SHEET ROLLING OF NIOBIUM ALLOY
IR-3 N64-22954 16-18

ELECTRONIC INSPECTION DEVICE TO MEASURE AND CONTROL SPEED OF SHEET METAL ROLLING N64-23087 16-15

FLAT ROLLING OF REFRACTORY METAL - METALLURGY N64-27596 19-18

VISIOPLASTICITY TECHNIQUES - ROLLING, FLOW FIELD DETERMINATION, AND STRUCTURE OF DEFORMED MATERIALS
PR-1 N64-28148 20-18

APPLICATION OF ULTRASONIC WAVE ENERGY TO ROLLING OF SHEET METAL
BPR-2 N64-29870 21-18

FABRICATION OF PRODUCTION-SIZE ROLL-WELDED CORRUGATED SANDWICH PANELS N64-30077 21-17

FEASIBILITY OF APPLICATION OF ULTRASONIC RADIATION TO SHEET METAL ROLLING PROCESS
BMPR-3 N64-32978 24-17

ROLLING CONTACT
ROLLING CONTACT FATIGUE PROCESS IN CRYSTALLIZED GLASS CERAMICS
NASA-TN-D-2082 N64-11557 03-19

INFLUENCE OF LUBRICATION ON ENDURANCE, WEAR, AND CONDUCTIVITY OF ROLLING CONTACTS
AL64T003 N64-16087 07-17

INFLUENCE OF LUBRICATION ON ENDURANCE IN ROLLING CONTACTS
AL63T018 N64-18701 11-17

SURFACE FAILURE OF ALUMINUM OXIDE BALLS UNDER REPEATED STRESSES APPLIED IN ROLLING CONTACT
NASA-TN-D-2274 N64-20190 13-17

INFLUENCE OF LUBRICATION ON ENDURANCE OF ROLLING CONTACTS
AL64T014 N64-21691 15-17

X-RAY INVESTIGATION OF SURFACE LAYERS OF METAL DURING ROLLING FRICTION N64-23837 16-33

X-RAY INVESTIGATION OF DISTORTION OF STRUCTURE OF STEEL DURING ROLLING FRICTION N64-23838 16-33

RADIOTRACER AND ELECTRICAL CONDUCTIVITY MEASUREMENTS OF LUBRICATION INFLUENCE ON ROLLING CONTACT ENDURANCE
AL64T037 N64-27730 19-17

SURFACE FAILURE OF TITANIUM CARBIDE CERMET AND SILICON CARBIDE BALL IN ROLLING CONTACT AT TEMPERATURES TO 2,000-DEG F
NASA-TN-D-2459 N64-27928 20-18

ROLLING MOMENT
WIND TUNNEL MEASUREMENTS OF ROLL DAMPING MOMENT COEFFICIENT OF FINNED BODY AT SUBSONIC AND SUPERSONIC SPEEDS
NAVORD-6652 N64-25957 18-03

ROLLING MOMENT MEASUREMENTS ON ELASTIC MODEL WING OF M-PLANFORM IN LOW SPEED FLOW
ARC-R&M-3362 N64-26704 18-03

SUPERSONIC WIND TUNNEL TESTING OF NIKE-IROQUOIS MODEL - INDUCED VEHICLE ROLLING MOMENTS
NASA-CR-58997 N64-33215 24-02

ROMBUS SYSTEM
S LAUNCH VEHICLE

ROOT
SOLUTION OF ALGEBRAIC POLYNOMIALS BY ROOT FINDING MATHEMATICAL TABLES
AFCRL-63-559/1/ N64-16816 08-20

ALGORITHMS FOR CALCULATION OF CHARACTERISTIC ROOTS AND VECTORS OF NORMALIZABLE MATRIX
ORNL-3688 N64-33440 24-20

ROTARY WING
ROTARY WING DECELERATOR RECOVERY DEVICE - WIND-TUNNEL TESTING, AND FREE FLIGHT DROP TESTS AT SUBSONIC AND SUPERSONIC SPEEDS
R-467 N64-14970 06-04

ESTIMATING ROTARY WING AERODYNAMIC CHARACTERISTICS AT HOVER AND HIGH FORWARD SPEEDS
NASA-CR-114 N64-34014 24-03

AERODYNAMIC CHARACTERISTICS ESTIMATION FOR ROTARY WINGS AT HIGH FORWARD SPEEDS
NASA-CR-115 N64-34015 24-03

ROTARY WING AIRCRAFT
CF HELICOPTER
ROTARY WING AIRCRAFT & AIR CUSHION EFFECT
FTD-TT-63-215/1 N64-22645 15-04

ROTATING BODY
ROTARY INERTIA & SHEAR FORCE EFFECT ON FREE BENDING VIBRATIONS OF ROTATING BARS
FTD-TT-62-1477/1&2 N64-12376 03-33

RESILIENT FRICTION GUIDE FOR FORWARD AND ROTATING MOTIONS OF MOVABLE TOOLS N64-13577 05-17

PRINCIPLE OF EQUIVALENCE - COORDINATE TRANSFORMATION OF ROTATING BODY
AD-427264 N64-14109 05-23

RADAR STUDY OF PLANET MARS - SURFACE, ROTATION, SURFACE CONDUCTIVITY, AND ASTRONOMICAL UNIT
NASA-CR-53051 N64-14844 06-29

ROTATION OF RIGID SATELLITES ON CIRCULAR ROTATION PATHS N64-17549 09-29

THERMAL RADIATION INCIDENT UPON FLAT PLATE

ROTATING AROUND ARBITRARY AXIS IN ELLIPTICAL EARTH ORBIT
NASA-TN-D-2147 N64-17745 09-13

PARAMETRIZATION OF EUCLIDEAN THREE-DIMENSIONAL ROTATION GROUP - MOTION EQUATIONS
NASA-CR-53568 N64-18448 10-23

ROTATING BEAM TEST FOR LOW CYCLE FATIGUE CRACK PROPAGATION STUDIES OF NOTCH-TOUGH MATERIALS
NRL-6056 N64-18869 11-18

LUNAR ROTATION AND EFFECT ON RHEOLOGY OF LUNAR SUBSTANCE N64-19329 12-05

ROTATIONAL MOTION OF DYNAMICALLY-SYMMETRIC SATELLITES
NASA-TT-F-8827 N64-22938 16-31

MOVEMENT OF MOMENTARY AXIS IN EARTH ROTATION N64-24651 17-05

TORSION MEASURING DEVICE FOR ROTATING BODIES
NASA-TT-F-9128 N64-31567 23-15

ROTATING BOUNDARY LAYERS ON AXISYMMETRIC BODIES
ATN-64/9227/-6 N64-32178 23-11

LINEARIZED MOTION EQUATIONS FOR ROTATING FLEXIBLE BODIES
D2-22761 N64-32192 23-30

GRAVITATIONAL RADIATION FROM ROTATING BINARY MASS SYSTEMS
NASA-CR-59249 N64-33291 24-23

CALCULATION OF AERODYNAMIC COEFFICIENTS OF ROTATING BODIES AT GREATER SUPERSONIC SPEEDS USING FORMULAS DERIVED FROM NEWTON RESISTANCE LAW
FTD-TT-64-561/1 N64-33942 24-02

ROTATING CYLINDER
FLOW STABILITY OF NON-NEWTONIAN LIQUID BETWEEN TWO ROTATING CYLINDERS IN PRESENCE OF CIRCULAR MAGNETIC FIELD
MRC-433 N64-12242 03-11

STABILITY OF AXIAL FLOW OF VISCOUS FLUID BETWEEN CONCENTRIC ROTATING CYLINDERS
MRC-430 N64-13753 05-11

VELOCITY PROFILE OF LAMINAR BOUNDARY LAYER ON ROTATING CYLINDER
CAL-AM-1762-S-4 N64-13960 05-03

VISCOUS FLOW STABILITY BETWEEN ROTATING CYLINDERS WITH FINITE GAP
MD-63-2 N64-14003 05-11

HYDRODYNAMICS OF TURBULENT FLOW OF AIR IN GAP ROTATING COAXIAL CYLINDERS
FTD-TT-63-18/162 N64-19741 12-11

STABILITY PROBLEM OF VISCOUS INCOMPRESSIBLE FLOW BETWEEN ROTATING COAXIAL CIRCULAR CYLINDERS WITH ADDED AXIAL FLOW
DVL-290 N64-20426 13-02

HYDRODYNAMICS AND HEAT TRANSFER OF TURBULENT FLOW OF INCOMPRESSIBLE FLUID IN GAP BETWEEN ROTATING COAXIAL CYLINDERS
FTD-TT-62-1743/1&2&4 N64-22394 15-13

CIRCULAR COUETTE FLOW TRANSITION BETWEEN CONCENTRIC ROTATING CYLINDERS
AD-603095 N64-30881 22-11

ROTATING FLUID
MOMENTUM-INTEGRAL SOLUTIONS FOR LAMINAR BOUNDARY LAYER PRODUCED BY ROTATING FLOW OF VISCOUS FLUID OVER FINITE STATIONARY DISK
ATN-63/9227/-3 N64-16836 08-11

ROTATING FLUID RING SEALS FOR HIGH SPEED SHAFTS IN SPACE - ELECTRON BEAM WELDING OF REX 49 STEEL
AD-429211 N64-19779 12-17

EFFECTS OF ROTATION & GRAVITATION ON FLUID MEDIUM
AFCRL-64-382 N64-24678 17-21

GRAVITY MODES ON ROTATING SHALLOW LAYER OF LIQUID IN CIRCULAR CYLINDER WITH PARABOLOID BOTTOM N64-24679 17-20

COORDINATES OF ROTATING FLUID WAVE MOTIONS WITH FIXED ISOTHERMAL SURFACES N64-24681 17-13

ONSET OF CONVECTIVE MOTIONS IN RAPIDLY ROTATING FLUID SPHERE
TR-57 N64-25242 17-11

OSCILLATING SPHERE IN ROTATING VISCOUS FLUID - EFFECT OF CORIOLIS FORCES ON FLOW PATTERN
NASA-TM-X-55050 N64-28900 20-11

OSCILLATIONS OF SPHERE IN INCOMPRESSIBLE VISCOUS FLUID ROTATING WITH CONSTANT ANGULAR VELOCITY
NASA-RP-313 N64-31443 23-11

ROTATING MACHINE
ROTATING-SPECIMEN FURNACE FOR USE IN DETERMINING SPECTRAL & TOTAL EMITTANCE OF MATERIALS FROM MEASUREMENT OF RADIANT FLUX FROM SPECIMEN SURFACE N64-10969 02-13

ROTATING DIFFUSER APPARATUS FOR CENTRIFUGAL COMPRESSOR MACHINE
FTD-TT-63-809/162 N64-11143 02-02

DESIGN OF SERVOMAGNETIC SUPPORT BEARING FOR ROTATING MACHINERY - REDUCTION OF FLEXURAL VIBRATION
EMI-3421-105-64U N64-20389 13-17

ROTATING MACHINERY USING SUPERCONDUCTORS
AVCO-EVERETT RES. REPT.-181 N64-21154 14-06

MOMENTUM AND ROTATION SPEED OF ELECTRIC MOTORS N64-23575 16-09

ROTATING MACHINERY FOR GAS COOLED REACTORS - CONFERENCE
TID-7690 N64-30065 21-17

SUPERCONDUCTING ROTATING ELECTRICAL GENERATORS IN LARGE SPACE POWER PLANTS
APL-TDR-64-71 N64-30815 22-25

ROTATING PLASMA
S THETA PINCH

ROTATING SHAFT
ROTATING FLUID RING SEALS FOR HIGH SPEED SHAFTS IN SPACE - ELECTRON BEAM WELDING OF REX 49 STEEL
AD-429211 N64-19779 12-17

PARAMAGNETIC RESONANCE IN LOADED HORIZONTAL SHAFT MOUNTED IN BEARING WITH RADIAL CLEARANCE
TIL/T-5461 N64-20868 14-17

DYNAMIC ZERO LEAKAGE SEAL, WATER SEAL, AND LIQUID METAL SEAL TECHNOLOGY FOR SNAP-8 GENERATOR SYSTEM
AD-432064 N64-21990 15-18

MAGNETIC AND ELECTRIC FORCES FOR ROTATING SHAFT SUSPENSION
EMI-3421-108-64U N64-27824 19-17

SEALING TECHNIQUES FOR HIGH SPEED ROTATING SHAFTS OPERATING IN HIGH TEMPERATURE LIQUID METALS AND VAPORS
QR-8 N64-27918 20-17

MAGNETIC AND ELECTRIC FORCES FOR ROTATING SHAFT SUSPENSION - DAMPING
EMI-3421-111-64U N64-30122 21-17

MAGNETIC AND ELECTRIC FORCES FOR ROTATING SHAFT SUSPENSION - RADIALLY ACTIVE BEARING
EMI-4454-114-63U N64-30904 22-17

MAGNETIC AND ELECTRIC FORCE STUDIES FOR ROTATING SHAFT SUSPENSION - ACTIVE-RADIAL SUPPORT AND MAGNETIC RESONANT SUPPORT SYSTEMS
EMI-3421-107-64U N64-31149 22-10

ROTATING VEHICLE
RESONANCE EFFECT OF SPHERIC INERTIA ON VEHICLE ROTATING AROUND SPHERICAL PLANET

MH-TRANS-431 N64-11575 03-29

ATTITUDE CONTROL FOR SUN-ORIENTED AXISYMMETRIC ROTATING MANNED SPACE STATION
NASA-CR-55033 N64-11816 03-22

DYNAMIC MOTION EQUATIONS FOR ROTATING, CYLINDRICAL SPACE STATIONS
NASA-TM-X-51695 N64-22445 15-30

ROTATION
SA AUTOROTATION
SA FARADAY ROTATION
SA TORQUE
CF GYRATION
IONOSPHERIC PARAMATERS FROM PHASE DIFFERENCE AND ROTATION OF POLARIZATION PLANE OF COHERENT SIGNALS FROM COSMOS I & COSMOS II SATELLITES
N64-10277 01-12

IONOSPHERE ELECTRON DENSITY FROM PHASE SHIFT AND ROTATION OF PLANE OF POLARIZATION OF COHERENT SIGNALS TRANSMITTED FROM SATELLITES
N64-10278 01-12

ARBITRARY NORMAL SECTION OF ROTATION ELLIPSOID
JPRS-18704 N64-10577 01-12

CENTERING CORRECTION FOR INSPECTION OF OFF-CENTER PART HAVING ROTATIONAL SYMMETRY - HARMONIC ANALYSIS
Y-1445 N64-10665 01-20

ROTATION OF AND GRAVITATIONAL EFFECTS ON FLUIDIZED BED REACTORS
LAMS-3012 N64-17238 09-23

RELATIVISTIC ROTATION AND INVARIANCE OF MAXWELL EQUATIONS
NASA-TM-X-54018 N64-17694 09-23

DYNAMIC RESPONSE OF SOLID, VISCOELASTIC SPHERE TO TRANSLATIONAL AND ROTATIONAL HARMONIC EXCITATION
EM13-6 N64-18113 10-33

CONTINUOUS ROTATION EXPOSURE EFFECTS ON NYSTAGMUS PHASE SHIFT
NASA-CR-53618 N64-18421 10-16

ROTATION AND DENSITY DISTRIBUTION OF NGC 1792 GALAXY
NASA-CR-53848 N64-19354 12-05

VIBRATIONAL AND ROTATIONAL ENERGY LEVELS IN ATOMIC AND MOLECULAR SYSTEMS IN SOLID STATE
WR-AF-5 N64-21435 14-25

ELECTROMAGNETIC ANGULAR ROTATION SENSING
AB-1108-0016-3 N64-21562 15-25

HEMODYNAMIC RESPONSES TO VESTIBULAR STIMULATION BY ROTATION
FTD-TT-64-32/1&2 N64-22365 15-16

HIGH SPEED GYROSCOPE FOR MEASURING ANGULAR VELOCITIES OF ROTATION N64-23385 16-15

BASE PRESSURE AND TEMPERATURE MEASUREMENTS FOR SOLIDS OF REVOLUTION IN SUPERSONIC GAS FLOW
FTD-TT-63-1146/1&2 N64-23441 16-11

TOLERANCE TO VEHICLE ROTATION OF ASTRONAUTS USING TURNING AND NODDING MOTION OF HEAD WHILE PERFORMING SIMPLE TASKS
AIAA PAPER-64-218 N64-23608 16-14

HUMAN PHYSIOLOGICAL AND PSYCHOLOGICAL RESPONSES TO SLOW ROTATION N64-23696 16-16

INTERFEROMETER FOR CONTROLLING ASPHERIC SURFACES OF ROTATION N64-24551 17-15

SPECTRUM OF THERMAL CONVECTION OF BAROCLINIC FLUID IN ROTATING ANNULUS N64-24683 17-13

FUNCTIONAL CONDITION OF VESTIBULAR APPARATUS OF WHITE RAT UNDER DAILY ROTATIONAL ACCELERATION STRESS
NASA-TT-F-9025 N64-27138 19-16

ROTATING-FIELD PHASER UTILIZING FERRITE MICROWAVE PROPERTIES
ESD-TDR-64-422 N64-28022 20-09

ELECTROMAGNETIC ANGULAR ROTATION SENSOR - TRAVELING WAVE RING LASER
AB-1108-0016-1 N64-29284 21-15

SPIRAL GROOVE BEARINGS WHICH TRANSMIT FORCE TOWARD AXIS OF ROTATION N64-29888 21-17

TRAVELING WAVE RING LASER FOR ROTATION SENSING
AB-1272-0011 N64-33275 24-15

ORIENTATION OF ROTATION AXIS RELATIVE TO GRAVITY - INFLUENCE ON NYSTAGMUS AND SENSE OF ROTATION
NASA-CR-59286 N64-33331 24-16

STATIONARY ROTATION OF RAREFIED GAS MASS GRAVITATING IN MAGNETIC FIELD
NASA-TT-F-8972 N64-33380 24-24

EFFECT OF ROTATIONAL STIMULUS ON HUMAN RESPIRATION
T-84-J N64-33496 24-16

ROTOR
SA HELICOPTER ROTOR
CF WING
INFLUENCE OF WIDE HUB ON ROOM TEMPERATURE BURST-STRENGTH OF MODEL STEAM TURBINE ROTORS
ARC-CP-661 N64-13910 05-17

THRESHOLD OF INSTABILITY OF RIGID ROTOR IN SELF-ACTING CYLINDRICAL JOURNAL BEARING
MTI-62TR13 N64-17514 09-17

STARTING INTERPLANETARY FLIGHT WITH TURBOJET ENGINE AND DECELERATION AT REENTRY WITH ROTOR
FTD-MT-63-224 N64-18764 11-30

LOW VISCOSITY ROTOR BEARING STABILITY
NASA-CR-54039 N64-19224 11-17

VIBRATIONAL ALIGNMENT AND DAMPING IN COAXIAL ROTORS WITH DIFFERENT ANGULAR VELOCITIES
FTD-TT-64-75/1&2 N64-21969 15-06

REDUCTION OF VIBRATION FROM ROTOR UNBALANCE BY USE OF FORCE CANCELING - VIBRATION ABSORBER
N64-23158 16-33

ROTARY SINE-COSINE TRANSFORMER WITH OUTPUT VOLTAGE PROPORTIONAL TO ROTOR ROTATION ANGLE
N64-23539 16-09

BEARING CLEARANCE & MASS ECCENTRICITY EFFECT ON ROTOR VIBRATION N64-23566 16-17

PARAMETERS OF MAGNETOELECTRIC GENERATORS WITH STAR TYPE ROTORS N64-23570 16-09

EFFECTS OF ALUMINUM FILLING OF ROTORS ON MAGNETOELECTRIC GENERATOR EFFICIENCY
N64-23571 16-09

EFFECT OF ROTOR MATERIALS ON CHARACTERISTICS OF MOTOR WITH SOLID ROTOR N64-23576 16-09

CENTRIFUGALLY STABILIZED STRUCTURE FOR ATMOSPHERIC ENTRY FROM SPACE - AERODYNAMIC FORCES ON ROTOR BLADE ELEMENT DEVELOPED USING NEWTONIAN MOMENTUM CONCEPT
NASA-CR-69 N64-23670 16-02

TEMPERATURE MEASUREMENT OF ROTOR DISK OF AIR COOLED GAS TURBINE N64-24250 17-11

DYNAMIC PROPERTIES OF ROTOR MOTION STEP-BY-STEP MOTORS DURING UNIT DISTURBANCE N64-24541 17-09

WIND TUNNEL TESTS OF XH-51 HELICOPTER FUSELAGE AND RIGID ROTOR
NASA-TN-D-2392 N64-25915 18-03

MAGNETIC FIELD EFFECTS ON MOLECULAR BEAM SCATTERING FROM TARGET ROTOR
AST-3530-102-64U N64-27232 19-11

SPHERICAL ROTORS FOR CRYOGENIC GYROSCOPES

NASA-CR-58053 N64-27804 19-15

WIND TUNNEL MEASUREMENTS ON LIFTING ROTOR AT HIGH THRUST COEFFICIENTS AND HIGH TIP-SPEED RATIOS
NASA-TN-D-2462 N64-28337 20-03

OPERATIONAL CHARACTERISTICS OF ROTOR SUPPORTED ON SELF-ACTING GAS JOURNAL BEARING
MTI-63TR50 N64-29915 21-17

SUPERCONDUCTING, MAGNETICALLY SUPPORTED, SPINNING ROTOR
NASA-CR-108 N64-31204 22-25

DESIGN PARAMETER VARIATION EFFECTS ON DYNAMICS OF CANTILEVER BLADE OR RIGID ROTOR
LR-17013 N64-31906 23-03

ELECTROSTATIC CHARGING CURRENTS IN HELICOPTER ROTOR BLADES
TRECOM-TR-64-14 N64-31952 23-04

ROTOR BLADE
CF IMPELLER
AIR LOAD MEASUREMENTS DURING FLIGHT USING PRESSURE TRANSDUCER MOUNTED ON ROTOR BLADE SURFACE
REPT.-299-099-200 N64-14761 06-15

TUNNEL TESTS ON DOUBLE CASCADES TO DETERMINE INTERACTION BETWEEN ROTOR AND NOZZLES IN SUPERSONIC TURBINES
ARC-CP-693 N64-16939 09-02

GAS TURBINE ROTOR BLADE FABRICATION FROM CAST MATERIAL N64-17080 09-17

ADJUSTABLE TIP WEIGHTS ON MAIN ROTOR BLADES FOR IMPROVEMENT OF HELICOPTER STABILITY THROUGH INCREASED DAMPING
HTC-AD-63-16 N64-17801 09-04

AXIAL FLOW PUMP ROTOR WITH BLADE TIP DIFFUSION FACTOR OF 0.43 - CAVITATION FLOW CONDITIONS
NASA-TN-D-2295 N64-19726 12-17

BOUNDARY LAYER TESTS IN VORTEX WIND TUNNEL - ROTOR STATOR BLADES
ARL/ME-255 N64-20552 13-11

NONLINEAR STRUCTURAL VIBRATION OF BEAMS, ROTOR BLADES, AND COMPOSITE SYSTEMS
FTD-TT-62-1197/1&2 N64-22039 15-34

FEASIBILITY OF USING HELICOPTER ROTOR BLADE AS RADAR ANTENNA
TR-299-099-251 N64-25091 17-09

BLADE ELEMENT PERFORMANCE OF 0.7 HUB-TIP RADIUS RATIO AXIAL-FLOW-PUMP ROTOR
NASA-TN-D-2481 N64-28415 20-11

DYNAMIC MODEL ROTOR BLADES FOR HIGH SPEED HELICOPTER RESEARCH N64-29265 21-33

DESIGN PARAMETER VARIATION EFFECTS ON DYNAMICS OF CANTILEVER BLADE OR RIGID ROTOR
LR-17013 N64-31906 23-03

STRUCTURAL DYNAMICS OF ROTOR AND BEARINGS IN HELICOPTER WITH BLADE MOUNTED TURBOJET ENGINES
FTD-MT-63-264 N64-32397 23-27

ROUGHNESS
SA SURFACE ROUGHNESS
EFFECTS OF THREE DIMENSIONAL ROUGHNESS TRIPS ON AERODYNAMIC CHARACTERISTICS AND BOUNDARY LAYER TRANSITION OF WING-BODY-TAIL CONFIGURATION
NASA-TN-D-2334 N64-22023 15-02

PRESSURE DROP AND FLOW VELOCITY DISTRIBUTION IN PIPES WITH REGULAR PATTERN OF ROUGHNESS IN TURBULENT FLOW
RSIC-220 N64-27053 19-11

EVALUATION OF ROUGH TERRAIN SURFACES
TRECOM-TR-64-19 N64-30166 21-12

ROVER PROJECT
REVISION OF ROVER PROGRAM, RIFT PROJECT, AND NERVA & KIWI REACTORS N64-12064 03-36

KIWI B-4 & ROVER-TYPE REACTORS - NUCLEAR SAFETY PROBLEMS & TEST PROGRAMS N64-14564 06-27

KIWI B-4 AND ROVER-TYPE REACTORS TRANSIENT ANALYSES N64-14565 06-23

ROVING
MATERIAL TESTING OF GLASS ROVING FOR FILAMENT WINDING
AD-419158 N64-12338 03-34

IMPROVING UNIFORMITY AND STRENGTH IN IMPREGNATED ROVING FOR FILAMENT-WOUND ROCKET CHAMBERS
BMR-5 N64-18265 10-19

HIGH STRENGTH IMPREGNATED ROVING FOR FILAMENT WINDING
REPT.-0627-V-4 N64-19049 11-19

ROYAL ZONE
S SUNSPOT

RUBBER
CF ELASTOMER
OXIDATION PRODUCTS USED TO FASTEN RUBBER TO METAL
FTD-TT-63-831/1&2 N64-12630 04-17

STRESS & BIREFRINGENCE DURING CRYSTALLIZATION OF NATURAL RUBBER IN RELAXED STATE
ONR-TR-54 N64-12853 04-23

HIGH STRENGTH CHEMICAL-RESISTANT RUBBERS WHICH RETAIN PROPERTIES AT HIGH & LOW TEMPERATURES - FLUORINE-CONTAINING POLYMER SYSTEMS
PCR-337 N64-14475 06-07

PRODUCTION OF TRIFLUORONITROSOMETHANE FOR CHEMICAL RESISTANCE IN ARCTIC TEMPERATURES - NITROSO RUBBER
RD-343-02 N64-14476 06-19

MEASUREMENT OF RANDOM BOND SCISSION IN RUBBER NETWORKS BY MEASUREMENT OF STRESS RELAXATION AT CONSTANT EXTENSION
ONR-TR-RLT-71 N64-16965 09-19

AGING OF INSTALLED RUBBER & PLASTIC GASKETS IN SIMULATED FLIGHT HARDWARE
NASA-TM-X-54517 N64-17607 09-19

EVALUATION OF SYNTHETIC ELASTOMER SEALANT FOR B-58 AIRCRAFT FUEL TANKS
FGT-3029 N64-20040 13-19

RUBBER ELASTICITY OF HIGHLY CROSS-LINKED, PRESWOLLEN NETWORK POLYMERS
ONR-TR-RLT-79 N64-22545 15-19

THERMOSTABLE TRIAZINE RUBBER PRODUCTION FROM COPOLYCONDENSATION OF DIAMIDINES OF PERFLUORO GLUTARIC AND PERFLUORO ADIPIC ACIDS
FTD-TT-63-176/1 N64-23297 16-19

USE OF RUBBER PROTECTIVE COATINGS ON METAL TO PREVENT CORROSION BY HYDROCHLORIC ACID N64-24271 17-07

EFFECT OF MICROORGANISMS ON NATURAL AND SYNTHETIC RUBBER - BIBLIOGRAPHY
PDL-50015 N64-26322 18-07

RHEOLOGICAL BEHAVIOR OF FILLED ELASTOMER - POLYURETHANE RUBBER FILLED WITH GRANULAR POTASSIUM CHLORIDE
TR-23 N64-28582 20-26

RADIATION & TEMPERATURE RESISTANCE OF O-RING COMPOUNDS
NARF-63-15T N64-29281 21-19

THERMODYNAMIC PROPERTIES OF NATURAL RUBBER AND ISOPRENE
NOLTR-64-79 N64-29792 21-19

SYNTHESIS AND POLYMERIZATION OF FLUORINATED SULFUR MODIFIED NITROSO RUBBER
QR-1 N64-30494 22-07

PRODUCTION OF FLUORINATED NITROSO RUBBERS
RD-343-03 N64-30497 22-19

SYNTHESIS & POLYMERIZATION OF FLUORINATED SULFUR MODIFIED NITROSO RUBBER
QR-2 N64-30560 22-07

SPECTRAL MOLECULAR ANALYSIS OF CIS-BUTADIENE RUBBER BY INFRARED SPECTROSCOPY
FTD-TT-64-459/1&2 N64-31799 23-19

MONOMER SYNTHESIS AND POLYMERIZATION STUDIES FOR PREPARATION OF NITROSO RUBBER
RD-343-Q4 N64-32462 23-07

EFFECTS OF LOADING AND ADHESION ON MECHANICAL BEHAVIOR OF FILLED RUBBER INSULATION IN ROCKET CHAMBERS
NRL-MEMO-1563 N64-33522 24-19

FILLER-RUBBER SYSTEMS WITH CHEMICAL MODIFICATIONS OF SILICA & FIBROUS TALC EVALUATED AS HIGH TEMPERATURE ELASTOMERS
AD-447815 N64-33673 24-19

RUBIDIUM
CF ALKALI METAL
RUBIDIUM, STRONTIUM, & STRONTIUM ISOTOPIC COMPOSITION OF TEKTITES
NASA-TM-X-51168 N64-11339 02-05

X-RAY FLUORESCENCE ANALYSIS OF POTASSIUM, BARIUM, RUBIDIUM, STRONTIUM, TITANIUM, ZIRCONIUM, AND PHOSPHORUS
RSIC-137 N64-17656 09-07

CONTAMINATION EFFECTS ON LIQUID RUBIDIUM AND LIQUID LITHIUM SYSTEMS
ASD-TDR-63-413 N64-18930 11-18

ANALYSIS AND PURIFICATION OF RUBIDIUM & LITHIUM
APL-TDR-64-34 N64-18935 11-17

THERMOPHYSICAL PROPERTIES OF RUBIDIUM AND CESIUM
NSAR-63-116 N64-19312 12-18

MEASUREMENT OF GEOMAGNETIC MICROPULSATIONS USING RUBIDIUM VAPOR MAGNETOMETER
SER. 4, ISSUE 87 N64-21379 14-15

RUBIDIUM IN AGRICULTURALLY IMPORTANT MATERIALS THROUGH ATOMIC ABSORPTION - FLAME PHOTOMETRY
NIJS-R-425 N64-21698 15-16

BRAGG ANGLES FOR SOFT X-RAY EMISSION LINES USING POTASSIUM ACID PHTHALATE AND RUBIDIUM ACID PHTHALATE ANALYZING CRYSTALS
NL-TDR-64-2 N64-22374 15-25

RUBIDIUM AND CESIUM IONS SCATTERED FROM MOLYBDENUM SURFACE N64-24569 17-23

EXPERIMENTAL VALUES OF HEAT OF ADSORPTION FOR SODIUM, RUBIDIUM, AND CESIUM ON TUNGSTEN SUBSTRATE
NASA-TN-D-2430 N64-27740 19-25

HEAT OF ADSORPTION FOR SODIUM, RUBIDIUM, AND CESIUM ON TUNGSTEN SUBSTRATE - CHEMISORPTION
NASA-TN-D-2431 N64-27741 19-25

HEATS OF ADSORPTION OF SODIUM, RUBIDIUM, AND CESIUM IONS ON TUNGSTEN SUBSTRATE
NASA-TN-D-2460 N64-27742 19-25

AIRCRAFT INSTALLATION OF DUAL CELL RUBIDIUM VAPOR MAGNETOMETER N64-30371 22-15

RUBIDIUM 86
EXCRETION RATE OF BROMINE-82, RUBIDIUM-86, AND IODINE-131 FROM RATS N64-12436 04-16

RUBY
RUBY TRAVELING-WAVE MASERS FOR TELSTAR SATELLITE COMMUNICATION SYSTEMS N64-11088 02-09

TEMPERATURE DEPENDENCE OF SPECTRAL LINE ABSORPTION OF CHROMIUM IONS IN RUBIES
SSD-TDR-63-417 N64-15121 07-23

MILLIMETER & SUBMILLIMETER RUBY MASER - POPULATION CHANGE AND R-LINE ABSORPTION COEFFICIENT
AD-429381 N64-15757 07-25

RUBY S-SERIES ABSORPTION SPECTRAL LINE SERIES - RELATED TO CHROMIUM-ION ENERGY-LEVEL SPLITTING N64-17344 09-25

SPIN LATTICE INTERACTION IN RUBY WITH CHROMIUM USING ELECTRON SPIN RESONANCE SPECTRUM MEASUREMENTS N64-18167 10-25

SPIN-LATTICE RELAXATION TIME CALCULATION FOR RUBY WITH LOW CHROMIUM CONCENTRATION AND AT LOW TEMPERATURE N64-19305 12-25

ULTRAVIOLET ABSORPTION SPECTRA OF RUBY CRYSTALS
AFCRL-63-581 N64-20865 14-25

X-RAY ANALYSIS OF MICROSCOPIC DIFFRACTION OF RUBY CRYSTAL STRUCTURES N64-20931 * 14-25

OPTICAL TESTS ON RUBY CRYSTAL SAMPLES
NRL-6080 N64-21488 14-25

INFRARED FLUORESCENT CRYSTALS, GROUND STATES OF RUBY CRYSTALS, AND POLYMERIZATION OF ACETYLENE-BENZENE & SILICON CARBIDE
JPRS-24743 N64-23001 16-01

SPLITTING OF FLUORESCENCE SPECTROSCOPIC GROUND STATES IN ORIENTAL RUBY N64-23004 16-25

EFFECT OF COMPONENTS AND ADDITIVES ON PRODUCTION OF RUBY COLORED GLASS N64-23188 16-19

FAR INFRARED SPECTRA OF COPPER HALIDES, CUPRITE, RUBY, & ALKALI HALIDES OVER WIDE TEMPERATURE RANGE
AFCRL-64-489 N64-28552 20-25

RELAXATION TIME MEASUREMENTS OF EXCITED STATES OF PARAMAGNETIC IONS IN CRYSTALS - FLUORESCENCE LIFETIMES OF RUBY
AF-111 N64-28792 20-25

CZOCHRALSKI APPARATUS, RUBY CRYSTALS, CRYSTAL EVALUATION, REFRACTIVE INDEX VARIATION, AND ETCHING OF DISLOCATIONS
AD-443460 N64-30778 22-25

REFRACTIVE INDEX VARIATIONS IN RUBY - BEAM DIVERGENCE AND INTERFEROMETRY N64-30779 22-25

ETCHING OF DISLOCATIONS IN RUBY AND SAPPHIRE WITH PHOSPHORIC ACID AT HIGH TEMPERATURES N64-30780 22-25

DEFECTS IN FLUX-GROWN RUBY CRYSTALS
TDR-469/9250-01/-1 N64-31635 23-25

RESONANT MODES AND DIELECTRIC CONSTANTS OF LARGE RUBY RODS IN CYLINDRICAL CAVITIES
PIBMRI-1219-64 N64-32269 23-25

LASER RESEARCH - RUBY RELAXATION AND FLUORESCENT PHENOMENA, HIGH RESOLUTION SPECTOGRAPH, AND FLASH LAMP
NRL-1553 N64-33145 24-25

RUBY OPTICAL SPECTRUM - ABSORPTION AMONG ZEEMAN COMPONENTS OF R & B LINES AND OPTICAL DETECTION OF MICROWAVE RESONANCE IN GROUND STATE
TR-437 N64-33872 24-25

RUBY LASER
OPTICAL MASER EXPERIMENTS - RUBY LASER
TDR-169/3250-22/TR-2 N64-13744 05-25

NEAR AND FAR FIELD BEAM DIFFRACTION PATTERNS OF RUBY LASER NEAR THRESHOLD
N64-13745 05-25

AXIAL VIBRATION MODES IN RUBY LASER OUTPUT OPERATED NEAR THRESHOLD
N64-13746 05-25

SPECTRAL COMPONENTS OF RADIATION FROM RUBY LASER OPERATING AT LIQUID NITROGEN TEMPERATURE
FTD-MT-63-100/1626364 N64-14383 06-25

RAYLEIGH SCATTERING OF RUBY LASER BEAMS BY LIGHT GASES
AFCRL-63-549 N64-14684 06-25

PEAK POWER VARIATIONS IN RUBY LASERS
N64-15365 07-25

MICROWAVE THEORY - BREAKDOWN OF GASES BY RUBY LASER RADIATION
REPT.-1579-7 N64-15371 07-25

ELECTRON TEMPERATURE AND DENSITY DETERMINATION IN HELIUM PLASMA USING THOMSON-SCATTERED RADIATION FROM RUBY LASER
N64-19066 11-24

STORAGE AND INTERNAL PROPAGATION LOSSES AFFECTING EFFICIENT OUTPUT PERFORMANCE OF RUBY LASER
AFCRL-64-151 N64-19665 12-25

DEFECTS IN RUBY LASER CRYSTALS
ATN-64/9236/-10 N64-20718 13-25

TRANSMISSION AND ATTENUATION OF RUBY LASER LIGHT THROUGH WATER
NRL-5941 N64-20847 14-25

CORRELATION OF LASER PERFORMANCE WITH OPTICAL QUALITY OF RUBY CRYSTAL
USAELRDL-TR-2408 N64-20848 14-25

WORKING PARAMETER EFFECTS ON RUBY PHOTON MAGNIFIER ENERGY OUTPUT
N64-20930 14-25

PULSED RUBY LASER SYSTEM FOR DETERMINATION OF PLASMA ELECTRON DENSITY AND TEMPERATURE
UCRL-7712 N64-21012 14-24

INTENSITY AND SHAPE OF REFLECTED RUBY LASER PULSES FOR OPTICAL RADAR SYSTEMS
RTD-TDR-63-4148 N64-21020 14-25

SPATIAL COHERENCE AND POWER DENSITY OF COOLED RUBY LASER
REPT.-1579-10 N64-23976 16-25

TRANSVERSE MODES OF RUBY LASERS USING BEAT FREQUENCY DETECTION AND FAST PHOTOGRAPHY
AFCRL-64-434 N64-27473 19-25

ZEEMAN EFFECT AND RUBY LASER POLARIZATION
NASA-CR-58358 N64-28754 20-25

ABSOLUTE VALUE OF OPTICAL GAIN IN RUBY LASERS AS FUNCTION OF INHOMOGENEOUS MAGNETIC FIELD INTENSITY
NASA-CR-58627 N64-28835 20-25

ORGANIC DYE MATERIALS FOR USE WITH PASSIVE RUBY LASER Q-SWITCHING ELEMENTS
TO-8-64-54 N64-30685 22-25

RUBY, GAS, AND LIQUID LASER DEVELOPMENT
FTD-TT-64-565/1626364 N64-32045 23-23

POWER DEPENDENT FREQUENCY SHIFTS IN RUBY LASERS
ATN-64/9216/-3 N64-32252 23-25

GAMMA IRRADIATION EFFECTS ON RUBY LASER CHARACTERISTICS - MATHEMATICAL MODEL
NSF-7 N64-32322 23-25

RUBY LASER CRYSTAL GROWTH
ASD-TDR-63-747 N64-32523 23-25

OPTICAL CHARACTERISTICS OF RUBY LASER EMISSION AND DESIGN OF HELIUM-NEON GAS LASERS
AROD-3309-5 N64-33692 24-23

GAIN IN RUBY LASER CRYSTALS AS FUNCTION OF INHOMOGENEOUS MAGNETIC FIELD INTENSITY
NASA-CR-59313 N64-33805 24-25

ABSORPTION OF RUBY LASER ROD
NASA-CR-59314 N64-33806 24-25

RUDDER
FORCES ON SHIP RUDDERS AND SCREW PROPELLERS
N64-20779 14-27

RULE
S LAW
S REGULATION

RUNGE-KUTTA INTEGRATION
CF DIFFERENTIAL EQUATION
RUNGE-KUTTA TYPE PROCEDURES FOR NUMERICAL INTEGRATION OF FIRST ORDER DIFFERENTIAL EQUATION
RSIC-243 N64-30968 22-20

RUNGE-KUTTA METHOD FOR CONSTRUCTING ACCURACY ORDER FOR NUMERICAL INTEGRATION OF DIFFERENTIAL EQUATIONS
RSIC-249 N64-32534 23-20

RUNWAY
CF AIRPORT
CF LANDING AID
LIGHTED CROSSBARS AND RUNWAY DISTANCE MARKERS
RD-64-27 N64-19033 11-10

TAXIWAY CENTERLINE LIGHTING FOR IMPROVING AIRPORT RUNWAY VISIBILITY
RD-64-46 N64-21013 14-10

AIRPORT LIGHTING CONFIGURATIONS FOR RUNWAY LANDING ZONES
RD-64-25 N64-26834 18-22

EVALUATION OF AIRCRAFT LAUNCH CATAPULTS AND ARRESTED LANDING GEAR ON ALUMINUM RUNWAY MAT
TAC-TR-63-71 N64-31021 22-10

RUNWAY CONDITION
AIRCRAFT AQUAPLANING ON WET RUNWAYS AS AN AIRCRAFT ACCIDENT FACTOR
BOSP-7-4-2 N64-10436 01-04

RUNWAY ROUGHNESS CRITERIA AND REPAIR METHODS - AIRPORT MAINTENANCE
AGARD-416 N64-13172 04-10

RUNWAY ROLLING COEFFICIENT OF FRICTION FOR PREDICTION OF TAKEOFF RUNS
AGARD-418 N64-13877 05-10

GROUND PERFORMANCE OF AIRCRAFT - TIRE TREAD DESIGN FOR OPTIMUM BRAKING AND SLUSH DRAG PERFORMANCE ON WET RUNWAYS
AGARD-429 N64-13883 05-10

BRAKING DISTANCES FOR AIRCRAFT AS AFFECTED BY VELOCITY, FRICTION, AND WET RUNWAY CONDITIONS
AGARD-434 N64-14215 06-10

COST ESTIMATION OF REMOVING SNOW, ICE, AND SLUSH FROM AIRPORT RUNWAYS
RD-64-28 N64-19095 11-10

ACCELERATION RESPONSE OF JET TRAINER AIRCRAFT TO RUNWAY ROUGHNESS
NASA-TN-D-2203 N64-20189 13-10

TREAD WEAR EFFECT ON WET RUNWAY BRAKING EFFECTIVENESS OF AIRCRAFT TIRES
AIAA PAPER-64-346 N64-23352 16-04

MEASUREMENTS OF RUNWAY SURFACE ROUGHNESS
AGARDOGRAPH-80 N64-23375 16-15

RUNWAY SURFACE WAVINESS
MP-218 N64-25538 17-10

RUNWAY UNEVENNESS EFFECT ON DYNAMIC RESPONSE OF SUPERSONIC TRANSPORT - DIGITAL COMPUTER PROGRAM
NASA-CR-119 N64-32830 24-04

RUPTURE
SA BURST
SA STRESS RUPTURE

CF FAILURE
CF FATIGUE
CF MECHANICAL PROPERTY
SEMIAUTOMATIC RUPTURE MODULUS TESTER FOR VACUUM OR INERT ATMOSPHERE
NASA-RP-50 N64-10075 01-23

TENSILE, RUPTURE, CREEP, & FATIGUE TESTS OF NICKEL ALLOYS
AD-422498 N64-12039 03-18

RUPTURE TEST OF WELDED TITANIUM ALLOY ROCKET MOTOR CASE
A515 N64-12153 03-33

RUPTURE BEHAVIOR OF ELASTOMERS - EFFECT OF VARIANCE ON FAILURE ENVELOPE RESOLUTION AND EFFECT OF CROSSLINK DENSITY ON CURVE SHAPE AND LOCATION
NASA-CR-55213 N64-13160 04-07

TIME DEPENDENT FRACTURE - RUPTURE OF SOLIDS
N64-13445 05-25

CREEP-RUPTURE TESTS OF REFRACTORY METALS AND ALLOYS IN HYDROGEN AND ARGON ATMOSPHERES
N64-16996 09-18

RUPTURE SURFACES OF THICK SPHERICAL SHELLS UNDER INTERNAL PRESSURE
DI-82-0336 N64-25886 18-33

EFFECT OF OXYGEN ON CREEP-RUPTURE OF NIOBIUM
NRL-6095 N64-29956 21-18

EFFECTS OF POTASSIUM VAPOR ON CREEP-RUPTURE PROPERTIES OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOYS FOR SNAP 50/SPACE POWER UNIT REACTOR /SPUR/ PROGRAM
APS-5092-R N64-33532 24-18

CREEP RUPTURE ANALYSIS OF DUCTILE MATERIALS SUBJECTED TO STRAIN HARDENING CREEP
SUDAER-196 N64-33982 24-33

RUTHENIUM
MEASUREMENT OF VAPOR PRESSURE AND HEAT OF SUBLIMATION OF RUTHENIUM AND OSMIUM USING MICROBALANCE TECHNIQUE
NBS PAPER-68A3-280 N64-32230 23-07

RUTHENIUM ALLOY
LATTICE MEASUREMENTS BY VEGARD LAW PLOTS OF RUTHENIUM-MOLYBDENUM, RUTHENIUM-TUNGSTEN, AND RUTHENIUM-TANTALUM ALLOYS
AD-429068 N64-15884 07-25

RUTILE
CF PIGMENT
SPECULAR REFLECTION & ABSORPTION OF RUTILE AND GROWTH OF CRYSTALS BY FLAME FUSION
MIT-TR-184 N64-15011 07-01

SPECULAR REFLECTANCE ON SINGLE CRYSTALS AND ABSORPTION ON THIN FILMS OF RUTILE
N64-15012 07-23

CARBON REDUCTION OF RUTILE AND ILMENITE IN NITROGEN AND AMMONIA ATMOSPHERES - CONVERSION TO TITANIUM NITRIDE
BR-R1-6447 N64-22120 15-07

CHROMIUM DOPED RUTILE TRAVELING WAVE MASER
NASA-TN-D-2490 N64-29453 21-25

S-2
S EXPLORER VI SATELLITE

S-BAND
S-BAND FERRITE DUPLEXER CIRCULATOR AND LIMITER DESIGN - YTTRIUM-IRON GARNET SPHERE COUPLING
USAELRDL-TR-2390 N64-14641 06-08

APPLICATION OF BACKFIRE PRINCIPLE TO ENDFIRE ANTENNAS FOR SHF, UHF, AND VHF BANDS
AFCRL-63-114 N64-18386 10-09

S-BAND ELECTRON BEAM DUPLEXER
NA-8210-8352-3 N64-21334 14-09

SOLID STATE DEVICE - FREQUENCY CONVERTER FOR L-, S-, C-, AND X-BANDS
AD-432394 N64-21396 14-08

WIDE STOP-BAND FILTER FOR HIGH POWER S-BAND RADAR
N64-22832 16-09

CRYSTAL FREQUENCY CONVERTER UNITS FOR L-, S-, C-, AND X-BANDS
IDR-9 N64-24808 17-08

BROADBAND MICROWAVE POWER LIMITERS - SCALING, BIAS CRYSTALS, DIODE MOUNTS, AND LOW POWER PERFORMANCE OF L BAND-S BAND UNIT
QPR-3 N64-25527 17-09

TESTING OF S-BAND AMPLIFIER
REPT.-2 N64-26525 18-09

FREQUENCY CONVERTER UNITS FOR L-BAND, S-BAND, C-BAND, AND X-BAND
REPT.-11 N64-27413 19-09

FREQUENCY CONVERTERS FOR L-BAND, C-BAND, S-BAND, X-BAND, & KA-BAND
AD-602517 N64-29657 21-09

DEVELOPMENT OF HIGH POWER FAST FERRITE SWITCHES IN C- AND S-BAND
IDR-3 N64-30867 22-09

FREQUENCY CONVERTER UNITS FOR C-BAND, L-BAND, S-BAND, AND X-BAND
IDR-3 N64-31181 22-09

DESIGN AND FABRICATION OF S-BAND ELECTRON BEAM DUPLEXER
NA-8210-8352-1 N64-31245 22-09

SEMICONDUCTOR PHASE SHIFTING DEVICES IN L- AND S-BANDS
AD-601003 N64-33003 24-09

EFFICIENCIES OF S-BAND HELICAL ANTENNAS AT HIGH TEMPERATURE
CAL-UB-1807-E-5 N64-33477 24-08

S-MICONDUCTOR
INTERBAND AND INTRABAND SCATTERING IN N-TYPE GERMANIUM
ARPA-TR-10 N64-27448 19-25

PHOSPHORUS DOPING OF CADMIUM TELLURIDE SINGLE CRYSTALS FOR P TYPE AND JUNCTION DIFFUSION WITH ZINC FOR N TYPE SEMICONDUCTORS N64-31644 23-25

INJECTION ELECTROLUMINESCENCE IN ZINC TELLURIDE P-TYPE SEMICONDUCTORS N64-31647 23-25

N-TYPE SEMICONDUCTOR GERMANIUM CRYSTALS WITH POLYMER COATINGS
FTD-TT-64-467/1&2 N64-33940 24-25

S-WAVE
MECHANISM OF EARTHQUAKE FOCI DETERMINATION USING S-WAVE DATA
AFCRL-63-797 N64-13660 05-12

S-WAVE AMPLITUDES FOR NONLEPTONIC DECAYS OF HYPERONS
UR-875-32 N64-25549 17-23

S-16
S OSO- I

S-17
S OSO-B

S-49
S OGO-A

S-50
S OGO-C

S-52
S UK-C

S-66
S BE-A

SACCHARIDE
NAPHTHALENE TRISULFONIC ACID AND SACCHARIN BEHAVIOR IN NICKEL SULFAMATE PLATING BATH - STRESS PREVENTING AGENT
RIA-TR-63-3346 N64-13311 04-17

SYNTHESIS OF ANTIGENS CONTAINING KNOWN SUGARS
AD-430401 N64-16098 07-16

EXTRACELLULAR POLYSACCHARIDE PRODUCED BY ALGAE AND INFLUENCE ON RECYCLING IN LIFE SUPPORT SYSTEM
N64-29722 21-16

CYTOCHEMICAL IDENTIFICATION AND LOCALIZATION OF POLYSACCHARIDE /CHITIN/ IN CELL WALLS OF FUNGI
AMRL-TDR-64-52 N64-29974 21-16

QUANTITATIVE ANALYIS OF POLYSACCHARIDES PRODUCED BY FRESH WATER ALGAE N64-33019 24-16

SACRAMENTO PEAK
CLASSIFICATION OF SOLAR PROMINENCES OBSERVED FROM SACRAMENTO PEAK OBSERVATORY DURING SUNSPOT CYCLE NUMBER 19, IN 1960
AFCRL-64-93 N64-18262 10-28

CLASSIFICATION OF SOLAR PROMINENCES OBSERVED FROM SACRAMENTO PEAK OBSERVATORY DURING SUNSPOT CYCLE NUMBER 19, IN 1961
AFCRL-64-119 N64-18263 10-28

SAFETY
SA AIRCRAFT SAFETY
SA INDUSTRIAL SAFETY
CF HAZARD
AIR TRAFFIC SAFETY RESEARCH
DFL-208 N64-10233 01-01

HYGIENE & SAFETY FACTORS FOR WORKING CONDITIONS
JPRS-19068 N64-11856 03-01

SAFETY CONSIDERATIONS FOR MANNED SPACE FLIGHT
FTD-TT-62-1605/1 N64-12849 04-14

LOWERING MINIMAL WEATHER CONDITIONS FOR SAFE LANDING OF TRANSPORT AIRCRAFT
AGARD-436 N64-14216 06-10

REACTOR DEVELOPMENT & TECHNOLOGY, AND NUCLEAR SAFETY STUDIES
ANL-6810 N64-14390 06-23

SAFETY & HAZARDS IN SCIENCE & TECHNOLOGY
N64-14553 06-01

RADIOACTIVITY AND RADIOCHEMICAL ANALYSIS - HEALTH AND SAFETY LABORATORY MANUAL
NYO-4700, REV. N64-15997 07-16

BOILING WATER- AND LIQUID METAL-COOLED REACTORS - GENERAL REACTOR TECHNOLOGY, ADVANCED SYSTEMS AND NUCLEAR SAFETY
ANL-6840 N64-16299 08-23

SAFETY HAZARDS AND SENSITIVITY CHARACTERISTICS OF LIQUID EXPLOSIVE SYSTEMS
AD-431641 N64-16624 08-26

GEMINI LAUNCH VEHICLE PILOT SAFETY PROGRAM
TOR-169/3126/-10 N64-18040 10-30

SAFETY TESTING AND ANALYSIS OF MODIFIED NUCLEAR AUXILIARY POWER REACTOR
IDO-16825 N64-20487 13-06

ETHICS, ECONOMICS, AND ATTITUDES AS FACTORS IN AIRCRAFT FLIGHT SAFETY N64-22042 15-16

SAFETY MEASURES AGAINST RADIATION HAZARD DURING VOSTOK III AND IV SPACE FLIGHTS
NASA-TT-F-8823 N64-22936 16-14

SAFETY, HAZARDS & ACCIDENTS
NASA-CR-56623 N64-24119 16-14

ENGINEERING SAFETY IN MISSILE-SPACE SYSTEMS
N64-25823 17-14

EXPLOSION SAFETY PRECAUTIONS AND STANDARDS FOR HYDROGEN, HYDROGEN DETECTOR, AND DETONATION IN HYDROGEN-OXYGEN MIXTURES N64-26035 18-19

GROUND AND FLIGHT SAFETY OF SOUNDING ROCKET LAUNCH FROM EQUATORIAL RANGE N64-26794 18-10

RECOMMENDED SAFETY PRACTICES FOR MANNED SPACE SIMULATOR PRESSURE CHAMBERS
ARTC-41 N64-27335 19-16

FLIGHT SAFETY OF MUSTANG WING AIRCRAFT
ARL/SM-288 N64-27405 19-05

WEATHER AS FACTOR IN FLIGHT SAFETY IN MILITARY AVIATION
JPRS-26524 N64-29758 21-21

MEDICAL SAFETY MEASURES DURING MANNED CENTRIFUGE EXPERIMENTS
NADC-ML-6410 N64-30169 21-16

INFLUENCE OF AUTOMATIC PILOT ON FLIGHT SAFETY AND DYNAMICS OF FLEXIBLE AIRCRAFT IN ATMOSPHERIC TURBULENCE N64-30228 22-04

CREWMAN VIEWS ON RESCUE AND SAFETY IN SPACE
N64-30724 22-14

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINE, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-19 N64-31577 23-27

GEMINI LAUNCH VEHICLE PROGRAM - GROUND SUPPORT, ROCKET ENGINES, PILOT SAFETY, CHECKOUT, AND COUNTDOWN REQUIREMENTS
REPT.-393-01M-20 N64-31578 23-27

HANDBOOK ON SAFETY PROBLEMS IN PYROTECHNICS LABORATORY AND PLANT, PROCESSING PROCEDURES AND EQUIPMENT, AND PARTICLE SIZE PROCEDURES
AMCP-706-186 N64-33131 24-17

SAFETY DEVICE
INTEGRATING MULTIPOINT REMOTE AREA SAFETY MONITOR FOR X-RAY AND GAMMA RADIATION SOURCES ABOVE 50-KEV
MATT-193 N64-11278 02-15

LAP BELT TIGHTENER IMPROVEMENT - SAFETY DEVICE
FA-M64-23-1 N64-17649 09-16

CONTROLLABLE THRUST DEVICES FOR ESCAPING FROM MANNED SPACECRAFT
FA-R-1672 N64-18365 10-27

MATHEMATICAL ANALYSIS OF SAFETY AND ARMING SETBACK MECHANISMS OF ORDNANCE PROJECTILES FOR MAXIMUM SAFETY AND RELIABILITY
HDL-TR-1190 N64-22503 15-26

CALIBRATION OF QUICK PRESSURE-RELEASE MECHANISM WITH PIEZOELECTRIC PRESSURE GAUGES FOR NUCLEAR REACTOR SAFETY DEVICE
NOLTR-63-134 N64-25377 17-09

OPTIMIZING SETBACK LEAF SYSTEMS FOR FUSE SAFETY IN PARACHUTE MALFUNCTION
HDL-TR-1233 N64-31110 22-04

SAFETY FACTOR
RADIOLOGICAL SAFETY CONSIDERATIONS - EVALUATION OF STORAGE, HANDLING, & TRANSPORATATION OF PLUTONIUM-BEARING WEAPONS
SC-4973/RR/ N64-14046 05-16

PARAMETRIC STUDY OF STRUCTURAL FACTOR OF SAFETY FOR AEROSPACE VEHICLES N64-19360 12-24

SAFETY FACTOR AND COMPUTATION FOR ELECTROMAGNETIC DEVICE OF GIVEN DEPENDABILITY
FTD-TT-63-37/162 N64-23295 16-16

LEAKAGE DETECTORS AND COMBUSTION FACTORS IN HYDROGEN SAFETY PRACTICES
PR-3 N64-33829 24-26

SAFETY HAZARD
SAFETY HAZARDS CONTROL - RADIOACTIVE MATERIALS, FIRE DETECTION, & EXPLOSIVE HANDLING
UCRL-7450 N64-11096 02-01

SAFETY ANALYSIS OF OPERATION OF HIGH-RADIATION-LEVEL EXAMINATION LABORATORY
ORNL-3479 N64-11366 02-10

SAFETY & HAZARDS IN SCIENCE & TECHNOLOGY
N64-14553 06-01

SAFETY MANUAL FOR PERSONNEL HANDLING RADIOACTIVE MATERIALS
AD-438147 N64-27263 19-16

SAGE AIR DEFENSE SYSTEM
CF DEFENSE
ENVIRONMENTAL DATA AND EQUIPMENT ASSIGNMENTS FOR SAGE AIR DEFENSE SYSTEM COMPUTER PROGRAM ADAPTATION
TM/ADC/820/302/03 N64-26494 18-01

SAIL
AERODYNAMICS OF SAILS AS THIN VERTICAL AIRFOILS
TCEA-TN-16 N64-10425 01-03

COSMIC RADIATION, RADIO ASTRONOMY, METEOROLOGY, THERMAL BALANCE OF EARTH, AND SOLAR SAIL STUDY USING SATELLITES
FTD-TT-64-499/1&2&4 N64-23852 16-29

SOLAR SAIL - OPTIMUM GUIDANCE FOR FLIGHTS FROM ORBIT OF EARTH TO ORBITS OF OTHER PLANETS
N64-23857 16-29

SOLAR SAIL AS POWER SOURCE FOR SATELLITE MANEUVERS AND CONVERSION OF SLAGS TO FERTILIZER POWDER
FTD-64-617/1&2&3&4 N64-32239 23-23

SAILPLANE
SAILPLANE DESIGN FOR OPTIMUM THERMAL SOARING PERFORMANCE
NASA-TN-D-2052 N64-14982 06-04

AERODYNAMIC DRAG AND GUST LOADING OF SAILPLANES DURING TOWING
OVL-267 N64-19787 12-04

AMUR GLIDER - LIGHT GLIDER-SAILPLANE
FTD-TT-63-1147/1&2 N64-21545 15-07

SAINT ELMO FIRE
S ELECTRIC DISCHARGE

SAINT VENANT PRINCIPLE
SAINT VENANT PRINCIPLE OF STRESS TENSOR IN BEAM OR CYLINDER POINTS
MRC-472 N64-31898 23-33

SALICYLATE
ABSOLUTE FLUORESCENT QUANTUM EFFICIENCY OF SODIUM SALICYLATE
NASA-CR-53230 N64-17573 09-23

ABSOLUTE FLUORESCENT QUANTUM EFFICIENCY OF SODIUM SALICYLATE
N64-28964 20-25

SALMONELLA
INTERRELATION OF PROTOCOCCAL ALGAE CULTURES AND SALMONELLA THYPIMURIUM
JPRS-18092 N64-11211 02-16

SALT
SA SODIUM CHLORIDE
SOIL CONDUCTIVITY AND CORRELATION TO COMPOSITION, SALT, & WATER CONDITIONS N64-10279 01-12

VIBRATION EFFECT ON METABOLIC SYSTEMS AND THERMAL DEHYDRATION OF SALTS
JPRS-18576 N64-10780 02-16

SALT STRESS CORROSION SUSCEPTIBILITY OF COMMERCIAL TITANIUM ALLOY SHEETS
NASA-TN-D-2011 N64-11245 02-18

CORTICAL REGULATION OF WATER & SALT METABOLIC BALANCE
JPRS-22523 N64-12392 03-16

PHYSICAL CHEMISTRY OF MOLTEN SALTS AND SLAGS
AEC-TR-5948 N64-13946 05-07

MANUFACTURE & PROPERTIES OF COBALT III ACETATE COMPLEX SALT
TIL/T-5412 N64-15271 07-07

DENSITY, PARTICLE SIZE, AND SURFACE AREA OF CERIA POWDERS DERIVED FROM SALTS
BM-RI-6375 N64-15991 07-19

SPIN-LATTICE RELAXATION IN RARE EARTH SALTS
AFCRL-63-576 N64-16494 08-25

ELECTROCHEMISTRY OF FUSED SALTS
IS-667 N64-16672 08-06

CORROSION OF MAGNESIUM ALLOYS IN SALT FOG ENVIRONMENT
CCL-161 N64-20301 13-18

OPTIMAL PROPORTIONAL CONTROL OF BLENDING PROCESS FOR WATER AND SALT SOLUTION USING IMPRECISE FEEDBACK INFORMATION
UCRL-11295 N64-20887 14-06

EFFECT OF SALT SPRAY ON CORROSION OF FASTENERS
A734 N64-24208 16-17

PRODUCTION OF TRITIUM BY CONTAINED NUCLEAR EXPLOSIONS IN SALT - REDUCTION OF ALKALINE EARTH SULFATES BY HYDROGEN
ORNL-3334, PT. II N64-27041 19-07

MOLTEN OR FUSED SALTS EVALUATED AS THERMOELECTRIC MATERIAL FOR REGENERATIVE FUEL CELL
NASA-TN-D-2440 N64-27361 19-06

HOT-SALT STRESS-CORROSION CRACKING OF TITANIUM ALLOYS - SUPERSONIC TRANSPORT APPLICATION
NASA-CR-117 N64-32829 24-18

PERTURBATION METHOD OF CALCULATING EXCESS FREE ENERGY OF MIXING MOLTEN RECIPROCAL SALT SOLUTION
NAA-SR-8880 N64-33434 24-07

BINARY EUTECTIC OF METALS OR SALTS AS THERMAL ENERGY STORAGE SYSTEM - EQUILIBRIUM PROPERTIES
NASA-CR-51748 N64-33777 24-13

NONUNIFORM PLASMA ELECTRIC CONDUCTIVITY MEASUREMENT USING SALT SOLUTIONS
NOLTR-63-165 N64-33966 24-24

SAMARIUM
LUMINESCENT INTENSITY OF SAMARIUM AND EUROPIUM COMPOUNDS WITH BENZOYLACETONE, DIBENZOYLMETHANE, AND ACETYLACETONE
STL-TRANS-74 N64-12015 03-23

VIBRONIC SPECTRA OF BIVALENT SAMARIUM IN STRONTIUM AND BARIUM FLUORIDE HOSTS - MODEL FOR ANALYSIS OF VIBRONIC TRANSITIONS
TDR-169/3250-24/TN-3 N64-13777 05-25

THERMOLUMINESCENCE OF PHOSPHORS BASED ON CALCIUM SULFATE WITH MANGANESE AND SAMARIUM ACTIVATORS
N64-24568 17-23

PHYSICAL PROPERTIES AND MAGNETIC SUSCEPTIBILITIES OF TANTALUM COMPOUNDS /ORTHOTANTALATES/ OF LANTHANUM, SAMARIUM, AND EUROPIUM
FTD-TT-64-321/1&4 N64-25471 17-19

SAMARIUM TYPE INTERMEDIATE PHASES OF INTRA-RARE EARTH BINARY SYSTEM
TR-1 N64-31276 22-18

SAMARIUM COMPOUND
PHOTOLUMINESCENCE OF BENZOYLACETONATES OF EUROPIUM AND SAMARIUM
STL-9990-6399-KU-000 N64-12088 03-23

SAMPLED DATA
ON-LINE SOLUTION TO SAMPLED-DATA TIME OPTIMAL CONTROL USING SPECIAL PURPOSE COMPUTER
N64-18109 10-20

GENERAL THEORY ON MULTIVARIABLE ERROR-FREE RIPPLE

FREE SAMPLED-DATA CONTROL SYSTEM
NASA-CR-56780 N64-27836 19-09

PERIODIC ANALYSIS OF SAMPLED DATA
AD-601942 N64-30463 22-20

SAMPLING
SAMPLING METHODS FOR DETERMINATION OF GASEOUS AIR POLLUTANTS N64-11056 02-21

FUNDAMENTALS OF MONTE CARLO METHODS IN RANDOM-NUMBER-GENERATION, DISTRIBUTION, AND SAMPLING IN PROBLEMS N64-11865 03-20

CALIBRATION OF ARGON GAS NEUTRON ACTIVATION SAMPLING DEVICE
NASA-RP-97 N64-11951 03-15

BIASED SAMPLING TEST BY HYPERGEOMETRIC PROBABILITY DISTRIBUTION - NULL HYPOTHESIS
TR-70 N64-13983 05-20

SAMPLING AND GAME THEORY APPLIED TO INSPECTION PLANS FOR DISARMAMENT AGREEMENTS N64-15422 07-20

LARGE SAMPLE ESTIMATION OF UNKNOWN DISCRETE WAVEFORM WHICH IS RANDOMLY REPEATING IN GAUSSIAN NOISE
TECH. REPT.-93 N64-16656 08-08

MICROMETEOROID PENETRATION EXPERIMENTS AS SINGLE-SAMPLING LIFE-TEST SAMPLING PLANS
NASA-TN-D-1989 N64-17153 09-23

SAMPLING TIME EFFECT ON DETERMINING MAXIMUM CONCENTRATIONS OF GAS DIFFUSION IN TURBULENT FLOW
E-T-G-63-25 N64-18661 11-11

SAMPLE SIZE FOR MINIMIZING SAMPLE VARIANCE IN SAMPLING WELL-BLENDED URANIUM CONCENTRATE
MCW-1454 N64-19252 11-07

ACCEPTANCE SAMPLING PROCEDURE AND SAMPLING INSPECTION PLANS FOR EVALUATING LOT QUALITY IN TERMS OF RELIABLE LIFE
TR-8 N64-20701 13-20

MEASUREMENT OF HAZARDOUS GASEOUS MATERIAL SOURCE CHARACTERISTICS USING CIRCULAR SAMPLING ARRAY
LA-3094 N64-26275 18-21

COMPUTATIONS OF ELECTRON DISTRIBUTIONS ABOUT THERMIONICALLY EMITTING PARTICLES, & ION SAMPLING FROM CHEMICAL PLASMAS
QSR-7 N64-28644 20-24

BAYESIAN SINGLE SAMPLING ATTRIBUTE PLANS OBTAINED BY MINIMIZING AVERAGE COSTS AND ASSUMING DOUBLE BINOMIAL DISTRIBUTION
TR-5 N64-29606 21-20

PROGRAMMING OF LARGE STOCHASTIC SIMULATION MODEL FOR MONTE CARLO ANALYSIS ON DIGITAL COMPUTER - STATISTICAL SAMPLING DESIGN
SP-1697/000/00 N64-30233 22-20

PERIODIC SAMPLING FOR DETERMINATION OF PROBABILITY DISTRIBUTION FUNCTIONS N64-32921 24-08

SAMPLING DEVICE
TRANSISTORIZED MULTIPLEXER FOR REPETITIVE SERIAL SAMPLING OF FOUR ANALOG DATA INPUTS
TN-SE-6-64 N64-33054 24-09

ELECTRIC ASPIRATOR TO TAKE SAMPLES OF ATMOSPHERIC AIR TO DEFINE HARMFUL GASEOUS INGREDIENTS
JPRS-27169 N64-33089 24-10

AIRCRAFT-BORNE SAMPLING DEVICE FOR COLLECTION AND FRACTIONATION OF TROPOSPHERIC AEROSOL PARTICLES
J-1038 N64-33668 24-15

SAN MARCO SATELLITE
DESCRIPTION, LAUNCHING TECHNIQUES, SCIENTIFIC EXPERIMENTS, TRAJECTORY, AND ORBIT OF SAN MARCO SATELLITE N64-26281 18-32

EPHEMERIDES EVALUATION OF SAN MARCO SATELLITE FOR ORBITAL LAUNCHING FROM WALLOPS ISLAND N64-26835 18-32

SANDSTONE
S ROCK

SANDWICH CONSTRUCTION
IMPACT AND FLEXURE PROPERTIES OF PLASTIC FACED PANELS OF SANDWICH CONSTRUCTION
PSNS-MAT-LABS-P-565 N64-14631 06-19

BUCKLING COEFFICIENTS FOR CYLINDERS OF SANDWICH CONSTRUCTION UNDER AXIAL COMPRESSION
FPL-018 N64-15053 07-33

STRENGTH OF PLASTIC SANDWICH CONSTRUCTIONS N64-15418 07-33

QUARTZ LAMP RADIANT HEAT BRAZING OF LARGE REFRACTORY METAL SANDWICH PANEL STRUCTURES FOR AEROSPACE VEHICLES
IR-7-937A/II/ N64-16042 07-17

CONSTRUCTION OF BRAZED REFRACTORY METAL SANDWICH PANELS
ERR-FW-188 N64-16450 08-17

BRAZING ALLOYS FOR FABRICATION OF NICKEL-BASED HONEYCOMB SANDWICH PANELS
A469 N64-17131 09-18

HIGH TEMPERATURE MECHANICAL PROPERTIES OF FOAM-IN-PLACE SANDWICH CONSTRUCTION
A485 N64-17143 09-19

SANDWICH SPECIMEN EVALUATION TO DETERMINE EFFECT OF HONEYCOMB CORE CELL SIZE ON EDGEWISE COMPRESSION OF SANDWICH CONSTRUCTION
FPL-026 N64-17370 09-33

VIBRATION ANALYSIS OF SANDWICH PLATE WITH LINEAR DAMPING PROPERTIES
DBIR-103 N64-17464 09-23

THERMAL STRESS, AND DESIGN ANALYSIS OF S-1C HEAT SHIELD PANELS USING BRAZED STAINLESS STEEL HONEYCOMB SANDWICH CONSTRUCTION
NASA-CR-53315 N64-17765 09-13

SOLID STATE SANDWICH-TYPE IMAGE INTENSIFIER CONSISTING OF PHOTOCONDUCTIVE LAYER AND PHOTOGRAPHIC EMULSION IN ELECTRIC FIELD
AFCRL-64-133 N64-18598 11-25

BUCKLING BEHAVIOR OF GEOMETRICALLY ORTHOTROPIC CYLINDRICAL SANDWICH SHELLS
AD-436033 N64-18616 11-33

TRANSMISSION EFFICIENCY MEASUREMENTS OF SANDWICH PANEL AT VARIOUS INCIDENT ANGLES - RADOME
ERR-FW-114 N64-18920 11-09

HEAT TRANSFER IN HONEYCOMB SANDWICH PANELS IN STRUCTURE OF AIRCRAFT AND MISSILES
ERR-FW-104 N64-18945 11-13

STIFFNESS CHARACTERISTICS OF SANDWICH-TYPE FLUTTER MODEL CONSTRUCTION
ERR-FW-167 N64-19137 11-33

EDGE COMPRESSION AND BUCKLING OF FLAT PANELS OF SANDWICH CONSTRUCTION WITH SIDES HINGED TO BEAMS
FPL-019 N64-19564 12-33

FLUTTER CHARACTERISTICS OF CURVED AND FLAT SANDWICH PANELS SUBJECTED TO SUPERSONIC FLOW
NASA-TN-D-2192 N64-19722 12-33

METAL-INSULATOR-METAL SANDWICH AS ELECTRON SOURCE FOR USE AS TUNNEL CATHODE IN ELECTRON TUBES
AD-437273 N64-20156 13-25

STRENGTH TEST OF SANDWICH CONSTRUCTION LIGHTWEIGHT INSULATION PANELS FOR CENTAUR VEHICLE TO DETERMINE DESIGN ALLOWABLE STRESSES
SSR-1-63 N64-20343 13-13

MANUFACTURING METHODS AND DESIGN PROCEDURES OF BRAZED REFRACTORY METAL HONEYCOMB SANDWICH PANELS

ASD-TDR-63-767 N64-20361 13-07

GENERATED VOLTAGE FAILURE MODE IN CAPACITORS OF THIN FILM SANDWICH CONSTRUCTION
N64-20978 14-25

KINETIC HEATING OF SANDWICH PLATE WITH HONEYCOMB CORE
RSIC-169 N64-21580 15-13

PHOTOGRAPHIC EVALUATION OF BRAZED METALLURGICAL HONEYCOMB SANDWICH PANEL JOINTS
A729 N64-22575 15-18

SEMICONDUCTOR CHARACTERISTICS OF CADMIUM SELENIDE PHOTOCONDUCTIVE CELLS IN COPLANAR AND SANDWICH CONSTRUCTIONS
MTER-2 N64-24899 17-25

COPLANAR AND SANDWICH CONSTRUCTION OF CADMIUM SELENIDE PHOTOCONDUCTIVE CELL
MTER-3 N64-24900 17-25

INFLUENCE OF CONSTITUENT PROPERTIES ON COMPOSITE MATERIAL PERFORMANCE - STRUCTURAL EFFICIENCY OF CYLINDRICAL SANDWICH SHELLS IN AXIAL COMPRESSION
NASA-CR-58182 N64-26577 18-34

BUCKLING OF AXIALLY COMPRESSED ORTHOTROPIC SANDWICH CYLINDERS
REPT.-6-62-64-9 N64-27224 19-33

GRAPHIC ANALYSIS OF AXIAL AND TRANSVERSE FORCES IN SANDWICH CYLINDERS WITH ANNULAR WEBS LOADED UNDER EXTERNAL UNIFORM PRESSURE
DTMB-1817 N64-27449 19-33

TUNNEL CATHODES FOR MICROWAVE TUBES - ELECTRON EMISSION INTO VACUUM FROM METAL-INSULATOR-METAL THIN FILM SANDWICHES
ASD-TDR-63-672 N64-28772 20-09

THIN FILM METAL-INSULATOR-METAL SANDWICH STRUCTURES AS CAPACITOR CATHODES FOR MICROWAVE TUBES
IR-4 N64-29319 21-09

FABRICATION OF PRODUCTION-SIZE ROLL-WELDED CORRUGATED SANDWICH PANELS N64-30077 21-17

ANALYTICAL MODEL FOR THERMAL RESPONSE PREDICTION IN HONEYCOMB SANDWICH PANELS
DR-6037 N64-33551 24-13

DESIGN CRITERIA FOR STRUCTURAL SANDWICH CONSTRUCTIONS UNDER VARIOUS LOADS
FPL-2161 N64-33858 24-34

SANDWICH PLATE
EFFECT OF EXPOSURE TO WEATHERING UNDER SEASHORE CONDITIONS ON STRENGTH AND SERVICE LIFE OF BRAZED STAINLESS STEEL HONEYCOMB SANDWICH PANELS
FGT-2948 N64-15574 07-34

STRUCTURAL SYNTHESIS CAPABILITY FOR INTEGRALLY STIFFENED WAFFLE PLATES N64-16007 07-34

METAL-TO-METAL AND SANDWICH PLATE ADHESIVE ENVIRONMENTAL TESTING FOR F-111 AIRCRAFT
FGT-3048 N64-20041 13-19

CORROSION INHIBITOR - SILVER-COPPER-LITHIUM BRAZED STEEL SANDWICH PANELS
FGT-3066 N64-20043 13-18

FLATWISE TENSION AND SKIN TENSION STRENGTH OF BONDED SANDWICH PLATE - ADHESIVE TESTING
FTDM-3194 N64-20062 13-34

SOLUTION TO WEAK CYLINDRICAL BENDING PROBLEMS FOR SANDWICH PLATES OF NONSYMMETRICAL THICKNESS
N64-23070 16-33

BRAZED REFRACTORY METAL HONEYCOMB SANDWICH PANELS, RESIN-IMPREGNATED POROUS CERAMICS, AND ABLATIVE CERAMIC COMPOSITE STRUCTURES N64-25416 17-17

VIBRATIONS OF CYLINDRICALLY CURVED ELASTIC SANDWICH PLATES
ARC-R&M-3363 N64-25553 17-33

EXPLOSIVE FORMING & WELDING OF HONEYCOMB SANDWICH PLATE
NASA-CR-59395 N64-33922 24-17

SANITATION
CF HEALTH
CF HYGIENE
ATMOSPHERIC GAMMA RADIATION & CHLORINE FOR WATER PURIFICATION AND SANITATION
JPRS-21975 N64-10386 01-16

HYGIENE & SANITATION - EFFECT OF LOW CONCENTRATION OF FLUORINE, SANITARY INDICES FOR WATER RESERVOIR, AND AIR IONIZATION
JPRS-19067 N64-11064 02-16

SANITARY DEVICES FOR ANIMALS IN SEALED SPACE CABIN
N64-11693 03-16

HYGIENE AND SANITATION IN USSR
JPRS-26305 N64-28430 20-16

SAPPHIRE
TWINNING IN SAPPHIRE RODS DURING COMPRESSION
ATN-64/9236/-16 N64-19242 11-19

DYNAMICS OF PLASTIC FLOW OF SAPPHIRE IN TENSION AND COMPRESSION
ATN-64/9236/-15 N64-19401 12-19

MECHANICAL PROPERTIES OF SAPPHIRE
ATN-64/9236/-14 N64-19773 12-19

FABRICATION OF SAPPHIRE QUARTER-WAVE PLATES FOR USE WITH RUBY IN NOVEL LONGITUDINAL MODE SELECTOR - LASER DEVICE
AD-600267 N64-20905 14-25

X-RAY STUDIES OF SAPPHIRE CRYSTAL
AFCRL-64-423 N64-24200 16-25

EFFECT OF HYDROSTATIC PRESSURE ON ELECTRON PARAMAGNETIC RESONANCE SPECTRUM OF CHROMIUM AND VANADIUM IONS IN SAPPHIRE
REPT.-06029-1-T N64-27858 19-25

ETCHING OF DISLOCATIONS IN RUBY AND SAPPHIRE WITH PHOSPHORIC ACID AT HIGH TEMPERATURES
N64-30780 22-25

SATELLITE
SA ACTIVE SATELLITE
SA ALOUETTE SATELLITE
SA ANNA SATELLITE
SA ARIEL I SATELLITE
SA ARIEL SATELLITE
SA BEACON SATELLITE
SA BIOSATELLITE
SA COMMUNICATIONS SATELLITE
SA COSMOS I SATELLITE
SA COSMOS II SATELLITE
SA COSMOS III SATELLITE
SA COSMOS IV SATELLITE
SA COSMOS V SATELLITE
SA COSMOS VI SATELLITE
SA COSMOS VII SATELLITE
SA COURIER SATELLITE
SA DISCOVERER XVII SATELLITE
SA DISCOVERER SATELLITE
SA ECHO I SATELLITE
SA ECHO II SATELLITE
SA ECHO SATELLITE
SA EQUATORIAL SATELLITE
SA EXPLORER I SATELLITE
SA EXPLORER IV SATELLITE
SA EXPLORER IX SATELLITE
SA EXPLORER VII SATELLITE
SA EXPLORER VIII SATELLITE
SA EXPLORER X SATELLITE
SA EXPLORER XI SATELLITE
SA EXPLORER XII SATELLITE
SA EXPLORER XIII SATELLITE
SA EXPLORER XIV SATELLITE
SA EXPLORER XV SATELLITE
SA EXPLORER XVI SATELLITE
SA EXPLORER XVII SATELLITE
SA EXPLORER XVIII SATELLITE

SA EXPLORER SATELLITE
SA FARO SATELLITE
SA GEODETIC SATELLITE
SA GEOPHYSICAL SATELLITE
SA GRAVITY GRADIENT SATELLITE
SA INJUN I SATELLITE
SA INJUN III SATELLITE
SA LOW FREQUENCY TRANSIONOSPHERIC /LOFTI/ SATELLITE
SA METEOROLOGICAL SATELLITE
SA MIDAS III SATELLITE
SA MIDAS IV SATELLITE
SA MULTISATELLITE AUGMENTATION PROGRAM-A /MUSAP A/
SA NATURAL SATELLITE
SA NIMBUS SATELLITE
SA ORBITING SATELLITE
SA PASSIVE SATELLITE
SA RELAY SATELLITE
SA SAN MARCO SATELLITE
SA SCIENTIFIC SATELLITE
SA SPUTNIK II SATELLITE
SA SPUTNIK III SATELLITE
SA SPUTNIK IV SATELLITE
SA SYNCHRONOUS SATELLITE
SA TELSTAR SATELLITE
SA TIROS I SATELLITE
SA TIROS II SATELLITE
SA TIROS III SATELLITE
SA TIROS IV SATELLITE
SA TIROS V SATELLITE
SA TIROS VI SATELLITE
SA TIROS VII SATELLITE
SA TIROS VIII SATELLITE
SA TIROS H SATELLITE
SA TIROS SATELLITE
SA TRANSIT IB SATELLITE
SA TRANSIT IIA SATELLITE
SA TRANSIT IVA SATELLITE
SA TRANSIT SATELLITE
CF SPACE VEHICLE
CF SPACECRAFT
BIBLIOGRAPHY ON SATELLITE IDENTIFICATION
LB-BIB-63-5 N64-10418 01-32

SATELLITE ASPECTS OF SPACE EXPLORATION PROGRAMS
N64-11505 03-29

ORBITAL TRANSFER OF SATELLITE SYSTEMS IN CIRCULAR ORBITS
TDR-269/4526-20/-1 N64-12187 03-29

SATELLITE SITUATION REPORT
NASA-TM-X-50510 N64-12402 03-32

SATELLITE SITUATION REPORT
NASA-TM-X-51375 N64-13392 04-32

SPACE EXPLORATION - BALLOONS, SOUNDING ROCKETS, SATELLITES, TRACKING & TELEMETRY STATIONS, & SUPPORTING ACTIVITIES N64-13450 05-01

SATELLITE, BOOSTER, TRACKING STATION, GROUND STATION, & COMPUTER PROGRAM CONSIDERATIONS FOR CALIBRATION SATELLITE SYSTEM
AFCRL-63-920 N64-13670 05-29

SATELLITE FOR EVALUATION OF SOLAR FLARE HAZARDS FOR NEAR-EARTH MANNED SPACE MISSIONS - FARO SATELLITE
RTD-TDR-63-3010 N64-13780 05-28

SATELLITE SITUATION REPORT
NASA-TM-X-51398 N64-14288 06-32

SATELLITE SYSTEM FOR CALIBRATION OF RANGE INSTRUMENTATION N64-15325 07-15

DETECTION OF SATELLITES AND SPACE PROBES BY ULTRAVIOLET, VISIBLE, & INFRARED RADIATION
N64-15475 07-23

SATELLITE SITUATION REPORT
NASA-TM-X-54539 N64-15532 07-32

SATELLITE SITUATION REPORT
NASA-TM-X-54579 N64-15860 07-32

SATELLITE SITUATION REPORT
NASA-TM-X-54595 N64-16030 07-32

EFFECT OF INTERACTION BETWEEN SATELLITE CHARGE AND AMBIENT IONS ON SATELLITES
AIAA PAPER-64-32 N64-16726 08-29

USING LOW THRUST ENGINES TO CONTROL POSITION, PERIOD, AND ECCENTRICITY OF SATELLITE ORBITS
TDR-269/4504-20/-1 N64-16876 08-22

ROTATION OF RIGID SATELLITES ON CIRCULAR ROTATION PATHS N64-17549 09-29

SATELLITE SITUATION REPORT
NASA-TM-X-51288 N64-17611 09-32

SATELLITE SITUATION REPORT
NASA-TM-X-51526 N64-17794 09-32

OPTIMUM UTILIZATION OF ORBITING SATELLITE FUEL DURING CROSS-RANGE MANEUVERS
ER-12929 N64-18007 10-29

TIROS I OBSERVATION OF TIME VARIATIONS IN SUBTROPICAL JET STREAM AND ASSOCIATED CLOUD PATTERNS
AFCRL-64-238 N64-18898 11-21

HAZARDS OF SATELLITE REENTRY DUE TO AERODYNAMIC HEATING - PROTECTIVE COATINGS & COOLING METHODS
FTD-TT-63-55/1&2 N64-19743 12-30

SATELLITE SITUATION REPORT
NASA-TM-X-51616 N64-19777 12-32

ROCKETRY AND SATELLITE DATA N64-20527 13-32

SATELLITES FOR CALIBRATION OF BALLISTIC MISSILE EARLY WARNING SYSTEM /BMEWS/ RADARS
ESD-TDR-63-454 N64-21599 15-08

ROTATIONAL MOTION OF DYNAMICALLY-SYMMETRIC SATELLITES
NASA-TT-F-8827 N64-22938 16-31

DETECTION OF RADIATION FROM OXYGEN RECOMBINATION INDUCED BY SATELLITE PASSAGE FOR AEROSPACE VEHICLE DETECTION N64-23012 16-28

ASTRONAUTICS - ROCKET MOTION, NUCLEAR FUELS, ORBITING ARTIFICIAL SATELLITES, PLASMA ENGINES
FTD-TT-61-123/1&2&3&4 N64-23395 16-01

PROBLEMS OF SPACEFLIGHT AFFECTING ARTIFICIAL EARTH SATELLITE N64-23641 16-31

SATELLITE SITUATION REPORT
NASA-TM-X-51782 N64-24021 16-30

UPPER ATMOSPHERE STUDIES BY ROCKETS AND ARTIFICIAL EARTH SATELLITES N64-24409 17-21

LUNAR AND SOLAR PERTURBATIONS ON ARTIFICIAL SATELLITES N64-25107 17-32

DYNAMIC MODEL ATMOSPHERIC EFFECTS UPON SATELLITE MOTION AND SATELLITE LIFETIME
SSD-TDR-64-51 N64-25247 17-29

ATMOSPHERIC OPTICS ABOARD ARTIFICIAL SATELLITES
NASA-TT-F-8912 N64-25540 17-09

SOLID STATE SATELLITE SEPARATION SEQUENCE TIMER TO PROVIDE FOR PAYLOAD SEPARATION SEQUENCE AT APPROXIMATE INTERVALS
NASA-TN-D-2319 N64-25710 17-15

DESIGN STUDY OF ONE-MAN VEHICLE FOR SHUTTLE TRANSPORT OF PERSONNEL AND MATERIALS BETWEEN ORBITING SPACECRAFT
RTD-TDR-63-4057 N64-25776 17-30

ORBITAL PLANE-CHANGE MANEUVER USING COMBINATION OF

AERODYNAMIC AND PROPULSIVE FORCES
SSD-TDR-64-98 N64-26107 18-22

SATELLITE SITUATION REPORT
NASA-TM-X-51832 N64-26350 18-32

REFRACTION OF SATELLITE SIGNALS
N64-26994 19-12

REFRACTION OF SATELLITE SIGNALS
N64-27039 19-12

ASTRONOMY, IONOSPHERIC AND COSMIC PHYSICS, BALLOONS, ROCKETS, AND SATELLITES
NASA-TT-F-9023 N64-27137 19-29

REPORTS AND REPRINTS ON SPACE SCIENCES, SATELLITES AND PROBES, GEOPHYSICS, TRACKING, INSTRUMENTATION, AND PLASMA PHYSICS N64-27171 19-01

FEASIBILITY OF BARIUM TITANATE IN SATELLITE TEMPERATURE CONTROL SYSTEMS
NASA-CR-56412 N64-27387 19-19

COMPUTATION OF OPTIMUM PAYLOADS & TRAJECTORIES AND FORMULATION OF GUIDANCE LAWS FOR SATELLITE LAUNCHERS
RAE-TM-SPACE-32 N64-27416 19-20

DETERMINATION OF MASS OF SATELLITE FROM MEASUREMENT OF THERMAL BEHAVIOR
TDR-269/4540-80/-1 N64-27624 19-13

CORRELATION BETWEEN ROTATION PERIOD OF ARTIFICIAL EARTH SATELLITE AND SOLAR ACTIVITY
NASA-TT-F-8530 N64-27808 19-29

ANALYTICAL FORMULATION OF MINIMUM FUEL CONSUMPTION FOR DOCKING WITH EARTH SATELLITE
NASA-CR-58222 N64-27906 20-29

MOTION OF ARTIFICIAL EARTH SATELLITE IN NONSPHERICAL ATMOSPHERE
RAE-TRANS-1066 N64-27966 20-32

MAGNITUDE OF ELECTRIC DRAG ON SATELLITES
NASA-RP-280 N64-28301 20-02

CHANGES IN ORBITAL ELEMENTS OF STATIONARY SATELLITES DUE TO METEOR IMPACT
N64-28944 20-29

RANGE AND RANGE RATE TRACKING SYSTEM FOR ADVANCED TECHNOLOGICAL SATELLITE
NASA-CR-60017 N64-28998 20-10

APPROXIMATION FORMULAS FOR DETERMINING LIFETIME OF SATELLITES TRAVELING AT LOW ALTITUDES
N64-29078 21-29

SATELLITES AND OTHER OBJECTS IN ORBIT, JUNE 1964
NASA-TM-X-51920 N64-29228 21-32

SUMMARY REPORT TO CONGRESS ON NASA PROGRAMS - DATA ACQUISITION, MANNED SPACE FLIGHT, NUCLEAR POWER & PROPULSION, SATELLITE APPLICATIONS, TRACKING, AND INTERNATIONAL COOPERATION N64-29539 21-01

SURFACE COATINGS FOR SATELLITE THERMOREGULATION
AD-602894 N64-30474 22-17

SATELLITE TO EARTH VISIBILITY OF CREWMAN - HUMAN PERFORMANCE N64-30720 22-14

SATELLITE TO SATELLITE VISIBILITY OF CREWMEN - HUMAN PERFORMANCE N64-30721 22-14

ANNOTATED BIBLIOGRAPHY ON COMBINED EFFECTS OF SPACE ENVIRONMENTAL PARAMETERS UPON SATELLITE SYSTEMS AND COMPONENTS
REPT.-3-35-64-3 N64-31117 22-28

LOW POWER, HIGH EFFICIENCY DIRECT CURRENT-DIRECT CURRENT CONVERTERS FOR SATELLITE AND ROCKET ENVIRONMENTAL CONDITIONS
AFCRL-64-558 N64-31403 23-09

SOLAR SAIL AS POWER SOURCE FOR SATELLITE MANEUVERS AND CONVERSION OF SLAGS TO FERTILIZER POWDER
FTD-64-617/1&2&3&4 N64-32239 23-23

COMPUTER PROGRAM TO FIND PROJECTION OF SATELLITE ON SURFACE OF ROTATING EARTH AND VEHICLE-SUN ORIENTATION
R64SD42 N64-32851 24-29

DETERMINATION OF EARTH ATMOSPHERE PARAMETERS BY SATELLITE MOTIONS
NASA-TT-F-8974 N64-33382 24-12

SILICON CONTROL RECTIFIER INVERTER CIRCUITS FOR ELECTRICAL POWER CONVERSION SYSTEMS AND CIRCUIT PROTECTION FOR SATELLITES
NASA-CR-50937 N64-33779 24-06

MOTION EQUATIONS IN VECTOR FORM FOR MULTIPLE PART SATELLITE SUBJECTED TO PERTURBING FORCES AND TORQUES
TDR-269/4540-70/-8 N64-33934 24-23

SATELLITE ATTITUDE CONTROL
SOLAR RADIATION PRESSURE EFFECT ON SATELLITE ATTITUDE CONTROL
ARC-R&M-3332 N64-10053 01-28

DIGITAL SOLAR ASPECT SENSING AND ON-BOARD DATA PROCESSING FOR SPIN STABILIZED SATELLITE ATTITUDE DETERMINATION
NASA-TM-X-50996 N64-10091 01-30

SIMULATION OF SINGLE-AXIS ATTITUDE CONTROL SYSTEM FOR SATELLITES
SSD-TDR-63-228 N64-11470 03-30

ATTITUDE CONTROL SYSTEM FOR ORBITING GEOPHYSICAL OBSERVATORY
IAC PAPER-31 N64-11893 03-32

ERROR ANALYSIS OF SATELLITE ATTITUDE FOR GEOGRAPHICAL CORRECTION OF NIMBUS CLOUD PICTURES
NASA-TN-D-2137 N64-12878 04-21

ATTITUDE STABILITY OF ARTICULATED GRAVITY-ORIENTED SATELLITES - LATERAL STABILITY
UTIA-93 N64-13112 04-32

COMPARISON OF OPTIMIZATION TECHNIQUES AS APPLIED TO SYSTEM ANALYSIS OF SINGLE AXIS SATELLITE ATTITUDE CONTROL
FDL-TDR-64-21 N64-19655 12-30

ATTITUDE DETERMINATION FOR TIROS SATELLITES
NASA-TN-D-2143 N64-21265 14-32

LOW-THRUST COLD-GAS MASS EXPULSION SYSTEMS, HORIZON SCANNER, & DIGITAL LOGIC CONTROLLER COMPONENTS FOR SATELLITE ATTITUDE CONTROL
SSD-TDR-64-86 N64-22324 15-06

SATELLITE COMMUNICATION
TELSTAR SATELLITE
NASA-SP-32, VOL. 2 N64-10882 02-01

CONICAL HORN-REFLECTOR ANTENNA FOR SATELLITE COMMUNICATIONS GROUND STATION N64-10884 02-08

ANTENNA POINTING SYSTEM FOR SATELLITE GROUND STATION AT ANDOVER, MAINE - PENCIL BEAM FORMATION
N64-10885 02-08

AUTOTRACK SYSTEM FOR HORN-REFLECTOR ANTENNA - ERROR CORRECTING DEVICE N64-10888 02-08

ATTACHMENT OF IMAGES AND ELIMINATION OF DISTORTION OF ARTIFICIAL EARTH SATELLITE TELEVISION TRANSMISSION N64-10995 02-21

RUBY TRAVELING-WAVE MASERS FOR TELSTAR SATELLITE COMMUNICATION SYSTEMS N64-11088 02-09

TRAVELING WAVE MASER FOR SATELLITE COMMUNICATION GROUND STATION RECEIVER - TELSTAR SATELLITE
N64-11089 02-09

SATELLITE SITUATION - SOURCE, LAUNCH DATE, ORBITAL ELEMENT, & TRANSMITTING FREQUENCY
NASA-TM-X-51205 N64-11107 02-32

SATELLITE TRACKING, TELEMETRY, & COMMAND SYSTEMS
SSD-TDR-63-334, VOL. 1 N64-15062 07-08

2.5 WATT X-BAND TRAVELING-WAVE TUBE AMPLIFIER FOR SATELLITE COMMUNICATION SYSTEMS
N64-15265 07-09

LOW LEVEL SATELLITE COMMUNICATIONS USING RANDOM ACCESS AND CORRELATION FOR EXTENDED PERFORMANCE
N64-16162 08-08

MECHANICAL DESIGN OF SATELLITE COMMAND SYSTEM ANTENNA ARRAYS
NASA-CR-55806 N64-18108 10-06

SATELLITE COMMUNICATIONS - PROPAGATION, ANTENNA AND RECEIVER FACTORS, COMPUTER USE, AND GROUND STATION SITING
ORTE-1122 N64-18241 10-08

SATELLITE COMMUNICATIONS - PROPAGATION, ANTENNA AND RECEIVER FACTORS, COMPUTER USE, AND GROUND STATION SITING N64-18242 10-09

ANTENNA SELECTION FOR SATELLITE COMMUNICATIONS GROUND STATIONS N64-18244 10-09

LOW NOISE RECEIVING SYSTEMS FOR SATELLITE COMMUNICATIONS GROUND STATIONS N64-18245 10-08

COMPUTER SPECIFICATIONS FOR USE IN ANTENNA CONTROL AND DATA PROCESSING AT SATELLITE COMMUNICATIONS SYSTEM GROUND STATIONS N64-18246 10-20

SITING GROUND TERMINALS FOR SATELLITE COMMUNICATIONS SYSTEMS N64-18247 10-10

DESCRIPTION OF TRANSPONDERS IN SATELLITE COMMUNICATIONS SYSTEMS
TDR-269/4110-01/-13 N64-19820 12-08

FORMATION OF GLOBAL SURVEILLANCE AND COMMUNICATION NETS OF SATELLITES AND GROUND STATIONS
TDR-269/4513-10/-5 N64-19821 12-08

RADIO ANTENNA ARRAY FOR SATELLITE COMMUNICATION AND CONTROL - COMMAND SYSTEM
NASA-CR-55807 N64-19978 12-09

DIELECTRIC ELEMENTS FOR SATELLITE COMMUNICATIONS ANTENNA ARRAYS AND FEED SYSTEMS
AD-429052 N64-20402 13-09

ANTI-JAM TECHNIQUES, CHANNEL CONTROL, TRAFFIC ROUTING, AND MULTIPLE ACCESS TECHNIQUES FOR SATELLITE COMMUNICATIONS
ANTI-JAM TECHNIQUES, CHANNEL CONTROL, TRAFFIC ROUTING, AND MULTIPLE ACCESS TECHNIQUES FOR SATELLITE
QPR-4 N64-22248 15-08

MODULATION SYSTEMS FOR SATELLITE COMMUNICATION
NASA-CR-56286 N64-23986 16-08

EXAMINATION OF HIGH FREQUENCY PHASE FLUCTUATIONS INDUCED BY ATMOSPHERE ALONG SATELLITE-TO-GROUND PROPAGATION PATH
REPT.-4563-67-T N64-25745 17-29

REFRACTION AND DOPPLER SHIFT OF RADIO WAVES RADIATED BY ARTIFICIAL EARTH SATELLITES IN THREE-DIMENSIONAL HETEROGENEOUS IONOSPHERE
FTD-TT-64-384/1&2&4 N64-26122 18-08

POWER AND BANDWIDTH REQUIREMENTS FOR SINGLE SIDE BAND, FREQUENCY MODULATION, AND PULSE CODE MODULATION SYSTEMS FOR SATELLITE COMMUNICATION
NASA-CR-56538 N64-27390 19-08

MICROWAVE TRANSPORTABLE SATELLITE COMMUNICATION LINK TERMINAL
FR-64-19-87 N64-27421 19-10

CONTINUOUS TRAVELING WAVE TUBE FOR SATELLITE COMMUNICATIONS
REPT.-3 N64-29642 21-09

DRIVING-POINT IMPEDANCE OF ELECTRICALLY SHORT CYLINDRICAL ANTENNA IN IONOSPHERE - SATELLITE RADIO COMMUNICATION SYSTEMS
TR-EE-109 N64-30734 22-08

TRANSMITTING AND RECEIVING EQUIPMENT FOR SYNCOM GROUND STATION
SYN-52-07-01, VOL. 1 N64-33073 24-08

AMPLIFIER PUMP SOURCE UNIT OF ANTENNA SYSTEM FOR SATELLITE COMMUNICATIONS TRANSPORTABLE GROUND TERMINAL
SYN-52-07-01, VOL. 2 N64-33641 24-08

SATELLITE CONFIGURATION
SATELLITE CONFIGURATION AND SUBSYSTEMS FOR SYNCHRONOUS METEOROLOGICAL SATELLITE
NASA-CR-55931 N64-17696 09-30

SATELLITE CONFIGURATIONS FOR REFLECTION OF OPTICAL SIGNALS FROM HIGH POWER LASERS
AFCRL-64-475 N64-29909 21-08

SATELLITE CONTROL
APPARATUS FOR MEASURING EMITTANCE AND ABSORPTIVITY OF SATELLITE TEMPERATURE CONTROL SURFACES
N64-10944 02-13

DEVICE FOR MEASURING TOTAL HEMISPHERICAL EMITTANCE OF MATERIALS FOR ORBITING ASTRONOMICAL OBSERVATORY SATELLITE THERMAL CONTROL SURFACE
N64-10950 02-15

MOMENTUM CONTROL OF ORBITING ASTRONOMICAL OBSERVATORY USING GEOMAGNETIC FIELD
IAC PAPER-32 N64-11892 03-22

WIDEBEAM VERY HIGH FREQUENCY ANTENNAS OF SATELLITE CONTROL FACILITY AS LOST VEHICLE ACQUISITION AID
SSD-TDR-63-237 N64-13651 05-10

USING LOW THRUST ENGINES TO CONTROL POSITION, PERIOD, AND ECCENTRICITY OF SATELLITE ORBITS
TDR-269/4504-20/-1 N64-16876 08-22

SATELLITE CONTROL - MATHEMATICAL MODEL OF GRAVITY AND INTERNAL TORQUES ON EARTH-POINTING SATELLITE
AMTED-TN-52 N64-16976 09-20

PREDETECTION RECORDING REQUIREMENTS OF SATELLITE CONTROL FACILITY
SSD-TDR-63-361 N64-17897 10-30

RADIO ANTENNA ARRAY FOR SATELLITE COMMUNICATION AND CONTROL - COMMAND SYSTEM
NASA-CR-55807 N64-19978 12-09

NOISE INTENSITY IN SATELLITE CONTROL FACILITY
SSD-TDR-63-293 N64-22379 15-08

INERTIAL COUPLING IN GRAVITY GRADIENT STABILIZED SATELLITES
AIAA PAPER-63-342 N64-23903 16-32

STATUS OF ALL MAN-MADE SATELLITES ORBITING AT END OF OCTOBER 1963
NASA-TM-X-51772 N64-24020 16-32

ION ENGINE SYSTEMS FOR CONTROL OF EARTH SATELLITES
AIAA PAPER-64-501 N64-25642 17-27

SCHEDULING IN MULTIPLE SATELLITE ENVIRONMENT BY SATELLITE CONTROL FACILITY
SP-1466 N64-25997 18-01

APPLICATION OF MAGNETIC-EXPANSION THRUSTORS TO SATELLITE STATION KEEPING AND ATTITUDE CONTROL
AIAA PAPER-64-677 N64-28360 20-27

TRANSLATIONAL AND ROTATIONAL EQUATIONS OF MOTION FOR GRAVITY GRADIENT STABILIZED SATELLITE
TDR-269/4540-70/-2 N64-29797 21-29

ATTITUDE SENSORS FOR SATELLITE CONTROL SYSTEM USING ION ENGINE PROPULSION FOR ATTITUDE CONTROL TORQUES AND ORBIT CONTROL IMPULSES
NASA-CR-53 N64-30991 22-15

ADAPTATION OF TRANSPONDER FOR SATELLITE CONTROL
GD/A-63-1195/C/, VOL. I N64-31078 22-32

SATELLITE DESIGN
TELSTAR SATELLITE DESIGN, CONSTRUCTION, GROUND FACILITIES, AND USES
NASA-SP-32, VOL. 1 N64-10868 02-01

MINERALOGICAL SATELLITE - MAPPING OF MINERALOGY & TEMPERATURE OF LUNAR SURFACE BY REMOTE INFRARED SPECTRAL MEASUREMENTS
IAC PAPER-94 N64-12351 03-15

DISSIMILAR SATELLITE APPENDAGES DURING ERECTION - LAGRANGE FORMULATION APPLIED TO ARIEL I SATELLITE
NASA-TM-X-938 N64-12957 04-32

TIROS I SATELLITE SYSTEM - BACKGROUND, DESIGN AND DEVELOPMENT, OPERATION PLAN, LAUNCH, PERFORMANCE, AND EVALUATION N64-17907 10-32

DESIGN, ENGINEERING, AND FLIGHT HISTORY OF MARINER II SPACE PROBE N64-30513 22-32

RANGE INSTRUMENT CALIBRATION SATELLITE
AEDR-2135 N64-32393 23-32

SATELLITE INSTRUMENTATION
PROGRAMMER ELECTRONICS FOR ATMOSPHERIC STRUCTURE SATELLITE - EXPLORER XVII
NASA-TM-X-50997 N64-10095 01-09

SATELLITE INSTRUMENTATION PROBLEMS IN MEASURING ATMOSPHERIC RADIATION USING MICROWAVE RADIOMETERS N64-10919 02-13

TECHNIQUE FOR DETECTING OCEAN STATE FROM SATELLITE VIA MICROWAVE RADIOMETRY N64-10920 02-21

SATELLITE RADIOMETRY - APPLICATION TO MEASUREMENT OF SEA STATE N64-10923 02-21

METEOROLOGICAL PARAMETRIC INFERENCES FROM SATELLITE RADIOMETRIC DATA N64-10930 02-28

INDUCED RADIOACTIVITY IN BIOMATERIAL & INSTRUMENTS OF SATELLITES DURING SPACE FLIGHT N64-11686 03-16

METEOROLOGICAL SATELLITE OBSERVATIONS AND INSTRUMENTATION N64-11850 03-12

ATTITUDE CONTROL SYSTEM FOR ORBITING GEOPHYSICAL OBSERVATORY
IAC PAPER-31 N64-11893 03-32

PULSE FREQUENCY MODULATION SIMULATOR FOR DESIGN AND TESTING OF TELEMETRY EQUIPMENT FOR SATELLITE SYSTEMS
NASA-TM-X-51336 N64-12946 04-08

AN/DPN-66 C-BAND TRANSPONDER FOR RANGE CALIBRATION SATELLITES
AFCRL-63-912 N64-13666 05-09

OPTICAL STATIC-SPLIT RECEIVER FOR LUNAR TRACKERS IN SATELLITES AND SOUNDING ROCKETS N64-15476 07-15

BRUSHLESS DC MOTOR FOR SATELLITE APPLICATION
NASA-TN-D-2108 N64-15908 07-06

SHOCK AND VIBRATION ISOLATION FOR SATELLITE TAPE RECORDERS
NASA-TM-X-942 N64-15921 07-15

SOLID STATE DETECTOR FOR PROTON ENERGY SPECTRUM MEASUREMENTS - SATELLITE INSTRUMENTATION
NASA-CR-53510 N64-19983 12-15

TRANSPONDER FOR RANGE CALIBRATION SATELLITE
GD/A-63-1195/B/ N64-21234 14-15

SATELLITE-BORNE XENON FLASH OPTICAL BEACON FOR USE ON RANGE CALIBRATION SATELLITE - DESIGN STUDY
EGEG-8-2730, PT. 3 N64-21241 14-06

SYNTHESIS AND MECHANIZATION OF ENCODING TECHNIQUES FOR USE IN PULSE FREQUENCY MODULATION TELEMETRY SYSTEM FOR SATELLITES
NASA-TN-D-1672 N64-21263 14-08

METEOROLOGICAL SATELLITES AND INSTRUMENTATION - EARTH RADIATION FLUX, RADIATION BALANCE, AND CLOUD FORMATION STUDIES
NASA-TT-F-177 N64-21431 14-32

INVESTIGATION OF UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V - INSTRUMENTATION N64-21632 15-12

MINIATURE WIDEBAND ELECTROMETRIC AMPLIFIER FOR SATELLITES
NASA-TT-F-8822 N64-23041 16-09

EFFECT OF ATMOSPHERIC RESISTANCE ON DYNAMICS OF GRAVITATIONAL STABILIZATION SYSTEM OF ARTIFICIAL EARTH SATELLITES N64-23855 16-23

GRAVITATIONAL STABILIZATION SYSTEM OF SATELLITE N64-23856 16-23

PASSIVE ATTITUDE STABILIZATION OF SATELLITES BY GRAVITATIONAL GRADIENT TORQUES
NASA-CR-56541 N64-24161 16-32

SOLID STATE CIRCUITS FOR SATELLITE INSTRUMENTATION
NASA-TN-D-1758 N64-25707 17-09

OPTICAL AND ELECTRONIC MEASUREMENT SYSTEMS FOR ENGINEERING DESIGN OF RANGE CALIBRATION SATELLITE
ESD-TDR-64-255 N64-25893 18-32

SATELLITE MEASUREMENT OF INFRARED BACKGROUND RADIATION USING RADIOMETER
SSD-TDR-64-101 N64-26108 18-30

MEDIUM-DATA-RATE DIGITAL TELEMETRY SYSTEM FOR SATELLITES
NASA-TN-D-2315 N64-26542 18-06

INSTRUMENTATION AND LAYOUT OF ELEKTRON SATELLITES USED TO MEASURE RADIATION ZONES AROUND EARTH
RAE-TRANS-1062 N64-26746 18-32

GLOBAL SILICON CARBIDE BLACK MATERIAL APPLIED TO UNIMMERSED TIROS RADIOMETER TYPE INFRARED DETECTORS
NASA-CR-60003 N64-28925 20-15

FLUX OBSERVATION OF HEAVY PRIMARY COSMIC RADIATION IN EXPLORER VII SATELLITE-BORNE INSTRUMENTATION N64-30519 22-15

CALIBRATION AND ANALYSIS OF ELECTRO-OPTICAL INSTRUMENTATION FOR RECORDING AND TRANSMISSION OF ROCKET AND SATELLITE BORNE SPECTRAL DATA
AFCRL-64-504 N64-31988 23-08

SATELLITE LAUNCHING
SATELLITE SITUATION REPORT - NAME, SOURCE, LAUNCH DATE, NODAL PERIOD, INCLINATION, APOGEE, PERIGEE, AND TRANSMITTING FREQUENCY
NASA-TM-X-51120 N64-10337 01-32

DESIGN, CONSTRUCTION, AND EVALUATION OF RELIABLE COMPONENTS FOR ELECTRONIC EQUIPMENT IN SATELLITE LAUNCHING AND ORBITAL ENVIRONMENT - TELSTAR N64-11081 02-06

SATELLITE SITUATION REPORT - LAUNCHING, LIFETIME, AND TRANSMITTING FREQUENCY DATA
NASA-TM-X-54589 N64-16029 07-32

TIROS I SATELLITE SYSTEM - BACKGROUND, DESIGN AND DEVELOPMENT, OPERATION PLAN, LAUNCH, PERFORMANCE, AND EVALUATION N64-17907 10-32

SATELLITE SITUATION REPORT
NASA-TM-X-51543 N64-18099 10-32

SOUNDING ROCKET, SATELLITE AND SPACE PROBE LAUNCHINGS, AND OBSERVATIONS - BIBLIOGRAPHY N64-19319 12-32

SATELLITE LAUNCHING
FTD-TT-63-1081/1 N64-19754 12-30

SPACE FLIGHTS AND SATELLITE LAUNCHINGS BY USSR
FTD-TT-63-676/1 N64-23305 16-29

TWIN LAUNCHING OF ELEKTRON I AND ELEKTRON II SATELLITE TO STUDY OUTER RADIATION BELT
NASA-CR-56644 N64-27826 19-32

LAUNCH OF IONOSPHERE EXPLORER-A /IE-A/ SATELLITE STRUCTURE, ORBIT, SCOUT LAUNCH VEHICLE, TRACKING AND DATA AQUISITION, AND SCIENTIFIC EXPERIMENTS
N64-29601 21-32

SPACE PROGRAMS FOR PERIOD 1962-1975 - BOOSTERS, DESIGNATIONS, DIMENSIONS, COST, AND LAUNCH DATES
SP-3 N64-30775 22-30

NASA LAUNCHING OF SATELLITE TO GATHER INFORMATION ON METEOROID HAZARDS IN SPACE FLIGHT
N64-33063 24-32

SATELLITE MEASUREMENT
EARTH SATELLITE STUDY OF ATMOSPHERIC AND IONOSPHERIC COMPOSITION, RADIATION BELTS AND COSMIC RADIATION N64-10796 02-28

RELATION OF SOLAR VARIATION TO WEATHER ON EARTH FROM SATELLITE DATA
NASA-CR-52682 N64-11717 03-01

SPHERICAL SATELLITE FOR MEASURING UPPER ATMOSPHERE AIR DENSITY LAUNCHED BY SCOUT VEHICLE
N64-11779 03-32

VERY-LOW-FREQUENCY OBSERVATIONS MADE ABOARD ALOUETTE SATELLITE
NASA-TM-X-51251 N64-11794 03-32

METEOROLOGICAL SATELLITE OBSERVATIONS AND INSTRUMENTATION N64-11850 03-12

FILTERING, ENCODING SYSTEM, TELEMETRY, AND DECODING OF SATELLITE MEASUREMENTS - DATA PROCESSING
NASA-CR-55017 N64-12026 03-08

TOPSIDE HEIGHT DISTRIBUTION OF ELECTRONS DEDUCED FROM TOPSIDE SOUNDER IONOGRAMS N64-15171 07-12

DIRECT MEASUREMENT OF INTERPLANETARY DUST FROM SATELLITES AND SPACE PROBES
NASA-TM-X-54570 N64-17609 09-05

TIME CHANGE IN CLOUD COVER OBSERVED BY TIROS III SATELLITE
AFCRL-64-235 N64-18895 11-21

TIROS III OBSERVATION OF INFRARED RADIATION PATTERNS IN 8-12 MICRON RANGE OVER CARIBBEAN SEA
AFCRL-64-236 N64-18896 11-21

TIROS I OBSERVATION OF TIME VARIATIONS IN SUBTROPICAL JET STREAM AND ASSOCIATED CLOUD PATTERNS
AFCRL-64-238 N64-18898 11-21

SATELLITE MEASUREMENT OF HIGH ALTITUDE WATER VAPOR AND ATMOSPHERIC MOISTURE
NASA-CR-53937 N64-20004 13-12

XENON FLASH OPTICAL BEACON FOR USE ON MISSILE RANGE CALIBRATION SATELLITE
EG&G-B-2730, PT. 2 N64-20100 13-06

METEOROLOGICAL SATELLITE - SATELLITE MEASUREMENT
NASA-CR-56133 N64-20704 13-21

SATELLITE MEASUREMENTS OF ATMOSPHERIC RADIATION DURING TWILIGHT HOURS - DEVELOPMENT OF INFRARED SATELLITE TRACKING RADIOMETER
AFCRL-64-302 N64-21240 14-32

SATELLITE PHOTOGRAPHS OF CLEAR AIR TURBULENCE AND CLOUD PATTERNS
AD-432468 N64-21308 14-21

NUCLEAR COMPONENT OF COSMIC RAYS - SOVIET SATELLITE AND ROCKET INVESTIGATION
JPRS-25029 N64-21614 15-28

MEASUREMENT OF ATMOSPHERIC DENSITY BY INSTRUMENTED NONORIENTATED SATELLITE N64-21637 15-12

MEASUREMENTS OF ATMOSPHERIC TEMPERATURE BY INSTRUMENTED SATELLITE N64-21638 15-12

RADIATION MEASUREMENTS IN SPACE OBTAINED BY COSMOS IV AND COSMOS VII SATELLITES PRIOR TO FLIGHT OF VOSTOK III & VOSTOK IV SPACECRAFT
N64-21640 15-29

EXPLORER VIII SATELLITE MEASUREMENTS IN UPPER IONOSPHERE
NASA-TN-D-2150 N64-22019 15-32

EARTH SATELLITE MEASUREMENT OF CHARGED PARTICLE TRACKS TO STUDY COSMIC RADIATION INTENSITY
N64-22032 15-28

INVESTIGATION OF UPPER ATMOSPHERE BY SATELLITES COSMOS III AND COSMOS V
NASA-TT-F-8565 N64-22931 16-13

SATELLITE MEASUREMENTS OF CHARGED PARTICLES FOR COSMIC RADIATION STUDY IN IONOSPHERE
NASA-TT-F-8831 N64-22939 16-28

EARTH RADIATION MEASUREMENTS BY METEOROLOGICAL SATELLITES
NASA-TT-F-8563 N64-23118 16-22

CAMERA WITH ENHANCED LIGHT GRASP FOR PRECISE SATELLITE RECORDING
RAE-TN-IR-30 N64-23376 16-31

ANALYTICAL DETERMINATION OF EARTH VISIBILITY FROM ORBITING SATELLITE - OGO & POGO
NASA-TM-X-55002 N64-23517 16-12

OPTIMUM TRAJECTORY, PERFORMANCE OF OPTICAL AND RADAR APPARATUS, AND ATMOSPHERIC DENSITY DATA FROM ARTIFICIAL EARTH SATELLITE N64-23636 16-31

HUMAN BEHAVIOR ABOARD SATELLITE - REACTION TO WEIGHTLESSNESS, ACCELERATION, AND RADIATION HAZARD
N64-23637 16-31

COSMIC RADIATION, RADIO ASTRONOMY, METEOROLOGY, THERMAL BALANCE OF EARTH, AND SOLAR SAIL STUDY USING SATELLITES
FTD-TT-64-499/1&2&4 N64-23852 16-29

INFRARED RADIATION FLUX DETERMINATION BY ARTIFICIAL EARTH SATELLITES N64-23862 16-21

RADIATION INTENSITY MEASUREMENTS BY SATELLITES AT ALTITUDES OF 200- TO 400-KM N64-23864 16-28

SOFT CORPUSCULAR RADIATION IN EQUATORIAL LATITUDES MEASURED WITH SCINTILLATION COUNTER ABOARD COSMOS IV SATELLITE N64-23866 16-28

PLASMA ENERGY SPECTRUM MEASUREMENTS BY INTERPLANETARY MONITORING PLATFORM I /IMP-1/ SATELLITE
NASA-TM-X-55004 N64-23929 16-29

RADIATION DATA FROM TIROS II, III, AND IV MEASUREMENTS
NASA-CR-56296 N64-24028 16-21

DETERMINATION OF HIGH ALTITUDE WATER VAPOR BY SATELLITE MEASUREMENT
NASA-CR-70 N64-24827 17-21

MEASUREMENT OF AGGREGATE RADIATION DOSE ABOARD SOVIET SPACESHIPS-SATELLITES VOSTOK V AND VOSTOK VI SPACECRAFT
NASA-TT-F-8694 N64-25050 17-28

GEOGRAPHICAL DISTRIBUTION OF SATELLITE SCINTILLATION ACTIVITY ABOVE NORTHERN SCANDINAVIA
AFCRL-64-268 N64-25082 17-12

IONOSPHERIC CONTRIBUTIONS TO DOPPLER SHIFT AT VERY HIGH FREQUENCY FROM NEAR-EARTH SATELLITE
CM-1040 N64-25891 18-04

DIRECT MEASUREMENTS OF INTERPLANETARY DUST FROM SATELLITES AND PROBES
NASA-RP-234 N64-26072 18-05

SATELLITE OBSERVATION OF AURORAL ZONE IONOSPHERIC IRREGULARITIES
AFCRL-64-568 N64-26909 18-12

ECHOS AT GREAT DISTANCE OBSERVED ON IONOGRAMS OF ALOUETTE SATELLITE
NASA-TT-F-8934 N64-26930 18-08

TOTAL ELECTRON CONTENT OF IONOSPHERE DERIVED FROM SATELLITE DOPPLER MEASUREMENTS
NASA-CR-56935 N64-27881 20-12

SATELLITE OBSERVATIONS OF GEOMAGNETIC FIELD DURING MAGNETIC STORMS - EXPLORER VI DATA
NASA-RP-295 N64-28355 20-29

DETERMINATION OF ELECTRON DENSITY OF UPPER IONOSPHERE USING RADIO SIGNALS FROM SATELLITES
N64-29058 21-12

INTERPRETATION OF RADIATION MEASUREMENTS FROM SATELLITES N64-29081 21-29

CALCULATION OF OUTGOING LONG WAVE RADIATION FLUX FROM SATELLITE RADIATION MEASUREMENTS
N64-29084 21-28

SPREAD-F OBSERVATIONS BY ALOUETTE SATELLITE
N64-30081 21-12

SATURN I, SATURN IB, AND SATURN V LAUNCH VEHICLES N64-30333 22-31

FLUX OBSERVATION OF HEAVY PRIMARY COSMIC RADIATION IN EXPLORER VII SATELLITE-BORNE INSTRUMENTATION
N64-30519 22-15

SATELLITE MEASUREMENTS OF X-RAY EMISSION, CHARGED PARTICLE FLUX, AND SOLAR FLARES
N64-30572 22-28

DENSITY, PRESSURE, AND COMPOSITION OF RAREFIED GAS LAYERS OF ATMOSPHERE FROM ROCKET OR SATELLITE RECORDINGS N64-32334 23-12

SATELLITE SYSTEM FOR RADIO ASTRONOMICAL MEASUREMENTS AND ANTENNA ANALYSIS AT LOW FREQUENCIES
NASA-TM-X-55089 N64-33563 24-32

SURFACE SPUTTERING BY ATOMS, IONS, AND MOLECULES - LABORATORY MEASUREMENTS BY MOLECULAR BEAM, AND IN UPPER ATMOSPHERE FROM INSTRUMENTED SATELLITES
GD/A-DBE-64-048 N64-33841 24-25

SATELLITE NAVIGATION SYSTEM
ARTIFICIAL EARTH SATELLITES FOR TERRESTRIAL NAVIGATION
NASA-TM-X-51206 N64-11110 02-32

STELLAR-INERTIAL NAVIGATION SYSTEMS FOR CRUISE VEHICLES
PUBL.-552-A-26 N64-17999 10-22

SATELLITE NAVIGATION SYSTEM - GEODESY PROGRAM
N64-30340 22-32

SATELLITE OBSERVATION
ORBITAL TRACKING OF GEOSTATIONARY SATELLITE - THEORY & METHODS
NASA CR-52204 N64-10087 01-08

OBSERVATIONS OF SATELLITES - EXPLORER I AND VII, VANGUARD I, II, AND III, AND TRANSIT 1B
NASA-CR-52454 N64-10141 01-32

SATELLITE SITUATION REPORT - NAME, SOURCE, LAUNCH DATE, NODAL PERIOD, INCLINATION, APOGEE, PERIGEE, AND TRANSMITTING FREQUENCY
NASA-TM-X-51120 N64-10337 01-32

CATALOG OF SATELLITE OBSERVATIONS MADE BY SMITHSONIAN ASTROPHYSICAL OBSERVATORY
NASA-CR-52497 N64-10438 01-32

CATALOG OF SATELLITE OBSERVATIONS MADE BY SMITHSONIAN ASTROPHYSICAL OBSERVATORY
NASA-CR-52504 N64-10439 01-32

DETERMINATION OF EARTH REFERENCE ELLIPSOID AND GEODETIC DATA BASED ON SATELLITE OBSERVATION
JPRS-18002 N64-10731 02-12

SATELLITE OBSERVATIONS - ACCURACY IN TIME SIGNALS AND ORBITAL ELEMENTS
JPRS-20127 N64-10838 02-01

ERROR IN MOMENT OBSERVATIONS OF SATELLITES RELATED TO PRECISE-TIME SIGNALS N64-10839 02-08

SCIENTIFIC RESULTS OF ORBITING SOLAR OBSERVATORY I
NASA-RP-85 N64-11254 02-32

SATELLITE OBSERVATIONS OF TRANSIT 1B, ECHO I, AND EXPLORER IX SATELLITES
NASA-CR-55089 N64-12100 03-32

EFFECTS OF UNCERTAINTIES IN SOME ZONAL HARMONICS OF EARTH GRAVITY POTENTIAL ON SATELLITE POSITION DETECTION
SSD-TDR-63-174 N64-12236 03-12

CAMERA WITH OPTICAL COMPENSATOR FOR OBSERVING ARTIFICIAL EARTH SATELLITES N64-13686 05-23

VISUAL AND PHOTOGRAPHIC OBSERVATION OF SATELLITES IN POLAND
RAE-TRANS-1052 N64-14463 06-10

NONADIABATIC MODEL OF ATMOSPHERIC MOVEMENT AND SATELLITE RADIATION MEASUREMENTS FOR WEATHER FORECASTING
JPRS-23129 N64-14921 06-21

PROCESSING OF DATA OBTAINED FROM VISUAL AND PHOTOGRAPHIC OBSERVATIONS OF SATELLITES
N64-16460 08-32

GRAPHICAL METHOD FOR ESTIMATING PERIOD SATELLITE IS WITHIN VIEW OF GROUND POINT
W-6270 N64-16563 08-29

CATALOG OF PRECISELY REDUCED SATELLITE OBSERVATIONS
NASA-CR-55843 N64-16719 08-32

SATELLITE OBSERVATION AND VISUAL TRACKING FROM C-130 AIRCRAFT
NASA-CR-55905 N64-16724 08-08

SATELLITE TELEMETRY OF OCEANOGRAPHIC OBSERVATIONS
N64-16942 09-08

DETERMINATION OF TRACKING STATION LOCATIONS BY DOPPLER AND RANGE MEASUREMENTS TO EARTH SATELLITE
NASA-CR-53196 N64-17226 09-29

VISUAL OBSERVATION OF SATELLITES
N64-17271 09-08

VISUAL OBSERVATION OF SATELLITES, NOVEMBER 1963 FROM U.K., EUROPE, AND MALTA N64-17272 09-08

SATELLITE OBSERVATIONS WITH CINETHEODOLITE, OF MIDAS III, EXPLORER XVI, AND EXPLORER XVII SATELLITES N64-17273 09-08

OBSERVATIONS OF MAGNETOSPHERE IMPULSES FROM EXPLORER XII DATA
NASA-CR-53611 N64-18475 10-12

SHORT ARC CALIBRATION OF DOPPLER RADAR SATELLITE OBSERVATIONS TO OBTAIN GROUND STATION GEODETIC COORDINATES
NWL-1908 N64-18889 11-12

TIROS I OBSERVATION OF TIME VARIATIONS IN SUBTROPICAL JET STREAM AND ASSOCIATED CLOUD PATTERNS
AFCRL-64-238 N64-18898 11-21

LIST OF OPTICAL OBSERVATIONS OF SATELLITE
N64-19075 11-08

GEOCENTRIC COORDINATES OF SATELLITES FROM OPTICAL OBSERVATIONS N64-19080 11-08

KINETHEODOLITE SATELLITE OBSERVATIONS

N64-19287 11-32

CATALOG OF PRECISELY REDUCED SATELLITE OBSERVATIONS
NASA-CR-53819 N64-19310 12-29

SOUNDING ROCKET, SATELLITE AND SPACE PROBE LAUNCHINGS, AND OBSERVATIONS - BIBLIOGRAPHY
N64-19319 12-32

PRECISELY REDUCED OBSERVATIONS OF SATELLITES
NASA-CR-53783 N64-19350 12-32

OPTICAL, ELECTROMAGNETIC, AND SATELLITE OBSERVATIONS OF HIGH ALTITUDE DETONATIONS
N64-20755 14-12

DOPPLER EFFECT OBSERVATION IN REFLECTED LASER BEAM FOR SATELLITE VELOCITY MEASUREMENT
AD-434227 N64-21185 14-22

SATELLITE OBSERVATIONS FROM TRACKING STATION THEODOLITE FILMS N64-21197 14-08

RADIO TRACKING OF ORBITING SATELLITE USING DOPPLER AND RADIO INTERFEROMETER EQUIPMENT
N64-21737 15-08

OPTICAL OBSERVATIONS OF SATELLITES FOR FEBRUARY 1964 N64-24889 17-32

OPTICAL OBSERVATIONS OF SATELLITES FOR MARCH 1964
N64-24890 17-32

TABULATED DATA OF SATELLITE OBSERVATION
N64-26044 18-08

TABULATED DATA ON ORBITAL ELEMENTS - SATELLITE OBSERVATION
NASA-TM-X-51869 N64-26576 18-32

REDUCED CAMERA OBSERVATIONS OF ARTIFICAL SATELLITES FOR OBTAINING COEFFICIENTS OF TESSERAL AND SECTORIAL HARMONICS OF GEOPOTENTIAL AND FOR CORRECTIONS TO TRACKING STATION COORDINATES
N64-28121 20-05

OPTICAL OBSERVATIONS OF SATELLITES
N64-28247 20-08

GEODETIC POSITIONING FROM SIMULTANEOUS OPTICAL OBSERVATIONS OF ANNA I-B GEODETIC SATELLITE
AFCRL-64-562 N64-29994 21-12

SATELLITE OBSERVATIONS OF IONOSPHERIC RADIO WAVE ABSORPTION N64-30453 22-12

CATALOG CONTAINING SATELLITE POSITION OBSERVATIONS
NASA-CR-58821 N64-30507 22-08

FLUX OBSERVATION OF HEAVY PRIMARY COSMIC RADIATION IN EXPLORER VII SATELLITE-BORNE INSTRUMENTATION
N64-30519 22-15

EPHEMERIS CONTAINING OBSERVATIONS OF SATELLITES & LAUNCH VEHICLES N64-30860 22-08

EPHEMERIS OF ECHO II SATELLITE OBSERVATIONS
N64-30861 22-08

EPHEMERIS CONTAINING OBSERVATIONS OF VARIOUS ORBITING OBJECTS N64-30862 22-08

EPHEMERIS OF THEODOLITIC SATELLITE OBSERVATIONS
N64-30869 22-08

EPHEMERIS CONTAINING OBSERVATIONS OF EXPLORER, MIDAS III & IV, TRANSIT IIA & OTHER SATELLITES
N64-30870 22-08

EPHEMERIS CONTAINING OBSERVATIONS OF EXPLORER, MIDAS III & IV, TRANSIT IIA, & OTHER SATELLITES
N64-30871 22-08

EPHEMERIS CONTAINING SATELLITE OBSERVATIONS OF MIDAS, TRANSIT, AND THOR AGENA B ORBITING VEHICLES
N64-30872 22-08

EPHEMERIS OF ROCKET AND SATELLITE ORBIT POSITIONS
N64-30873 22-08

ATMOSPHERIC DENSITY DETERMINATION FROM SATELLITE OBSERVATIONS
AFCRL-64-543 N64-31735 23-12

LONG LINE GEODETIC AZIMUTHS FROM OPTICAL OBSERVATIONS OF ANNA FLASHING SATELLITE
AFCRL-64-446 N64-32108 23-32

SATELLITE OBSERVATION EPHEMERIS INDEX FOR PERIOD OF JAN. - JUNE 1964 N64-32344 23-32

EPHEMERIS OF EXPLORER AND VANGUARD SATELLITE OBSERVATIONS
NASA-CR-59174 N64-33116 24-08

SATELLITE OBSERVATIONS OF ECHO I, ECHO I ROCKET, EXPLORER VIII, AND EXPLORER IX
NASA-CR-59142 N64-33117 24-08

KINETHEODOLITE OBSERVATIONS OF MIDAS VI AND VII, EXPLORER XVII AND XIX, ATLAS AGENA B, ECHO II, AND POLJET I SATELLITES N64-33252 24-08

KINETHEODOLITE OBSERVATIONS OF EXPLORER XVI, AGENA, AND MIDAS V, VI, VII SATELLITES -
DECEMBER 1963 N64-33253 24-08

EPHEMERIS OF KINETHEODOLITE OBSERVATIONS - THOR AGENA D, MIDAS VI, BLUE SCOUT, AND GEOPHYSICAL RESEARCH SATELLITE N64-33446 24-08

EPHEMERIS OF KINETHEODOLITE OBSERVATIONS OF SATELLITES - MIDAS VII, ATLAS AGENA B, AND ABLESTAR N64-33447 24-08

OPTICAL OBSERVATIONS OF SATELLITES RECEIVED BY PREDICTION SERVICE N64-33518 24-08

SATELLITE SYSTEM TO EVALUATE SOLAR FLARE AND RADIATION BELT HAZARD TO NEAR-EARTH MANNED SPACE MISSIONS
AFWL-TDR-64-67 N64-33552 24-32

ULTRAVIOLET SPECTROPHOTOMETER FOR OSO-B STELLAR ATMOSPHERE OBSERVATIONS
NASA-TM-X-55079 N64-33560 24-15

SATELLITE ORBIT
CRITICAL INCLINATION OF CLOSE EARTH SATELLITES FOR CASE OF ASYMMETRICAL POTENTIAL OF MAIN BODY AND SMALL ECCENTRICITY - PECULIAR LIBRATION
NASA-RP-54 N64-10177 01-22

ORBITAL ELEMENT THEORIES FOR DRAG-FREE EARTH SATELLITES
RAE-TN-SPACE-42 N64-10403 01-29

GENERALIZED PROBLEM OF TWO-FIXED-CENTERS AND APPLICATION TO ARTIFICIAL EARTH SATELLITE ORBITS
JPRS-19225 N64-10649 01-32

PREDICTION PROGRAM FOR GROUND DETERMINATION OF SATELLITE ORBIT BY DIGITAL COMPUTER
ER-13143 N64-11411 02-29

MOTION EQUATIONS FOR ARTIFICIAL EARTH SATELLITE E ELLIPTICAL ORBIT PARAMETERS N64-11738 03-29

FORMULAS & TABLES FOR COMPUTING LIFETIME OF ARTIFICIAL SATELLITES FROM ORBIT
NASA-CR-55058 N64-11811 03-29

EXTENSION OF SPECIAL RELATIVITY TO TRANSFORMATIONS FOR VARIABLE MASS SYSTEMS, & RELATIVISTIC PERTURBATION THEORY FOR SATELLITE ORBITS
NASA-TR-R-188 N64-12155 03-23

DETERMINATION OF AXIAL ORIENTATION OF ROCKET OR SATELLITE IN CONSTANT PRECESSIONAL MOTION
AFCRC-63-871 N64-12659 04-29

OPTIMIZATION OF 24-HOUR COMMUNICATION SATELLITE ORBITAL CONTROL PROCESS
RM-3255-NASA N64-12953 04-30

SATELLITE ORBIT INCLINATION AND ECCENTRICITY, AND OCCURRENCE OF NEAR-COMMENSURATE MEAN MOTIONS IN

SOLAR SYSTEM
CRSR-128 N64-12963 04-29

EXOSPHERIC DRAG OF MARS AS CAUSE OF ORBITAL ACCELERATIONS OF SATELLITE
RM-3939-PR N64-14012 05-29

HANSEN THEORY OF SATELLITE ORBIT CALCULATION AS MODIFIED BY MUSEN
NASA-TR-R-147 N64-14437 06-20

ERROR ANALYSIS FOR DOPPLER DETERMINED SATELLITE ORBITS AROUND OTHER PLANETS N64-14438 06-29

NUMERICAL SOLUTION OF NONLINEAR EQUATIONS IN FINITE DIFFERENCES AND APPLICATION TO ORBITAL CALCULATION FOR ARTIFICAL EARTH SATELLITES
MH-TRANS-365 N64-14714 06-29

ARTIFICIAL SATELLITE ORBIT AND MOTION PREDICTION FROM PROCESSING OF OPTICAL AND RADIOTECHNICAL DATA
MH-TRANS-369 N64-14751 06-29

ERROR ANALYSIS OF SATELLITE ORBITAL PARAMETERS OBTAINED BY NAVAL SPACE SURVEILLANCE SYSTEM
NRL-5864 N64-15127 07-09

ANALYTIC DETERMINATION OF MAGNETIC FIELD AROUND SATELLITE IN CIRCULAR ORBIT FOR ATTITUDE CONTROL SYSTEM USING SATELLITE MAGNET
NASA-TN-D-2041 N64-15218 07-12

SUBSATELLITE PATH FOR 24-HOUR ORBITS AFFECTED BY CHANGES IN ECCENTRICITY, INCLINATION, AND ARGUMENT OF PERIGEE - ORBITAL PATH OF SYNCOM II
NASA-TM-X-54564 N64-15864 07-29

ORBITAL TRANSFER OF SATELLITE FROM 200-KM CIRCULAR ORBIT TO TWENTY-FOUR HOUR EQUATORIAL ORBIT UNDER OPTIMAL CONDITIONS - PROPULSION SYSTEM
DFL-205 N64-16202 08-06

ORBITAL ELEMENTS OF SELECTED SATELLITES
NASA-CR-55851 N64-16720 08-32

ORBITAL ELEMENTS FOR EXPLORER AND VANGUARD SATELLITES AND ECHO I SATELLITE
NASA-CR-55853 N64-16721 08-32

OUT-OF-PLANE MOTION OF CIRCULAR SATELLITE ORBIT
NASA-CR-53088 N64-16740 08-29

USING LOW THRUST ENGINES TO CONTROL POSITION, PERIOD, AND ECCENTRICITY OF SATELLITE ORBITS
TDR-269/4504-20/-1 N64-16876 08-22

RIGID BODY MOTION OF TWO-BODY SATELLITE UNDER ACTION OF GRAVITATIONAL TORQUES
N64-17557 09-29

HALPHEN METHOD USED TO DETERMINE LONG RANGE EFFECTS OF SUN AND MOON ON SATELLITE ORBITS
NASA-TR-R-176 N64-17826 09-05

SATELLITE ORBIT DETERMINATION BY ANGULAR MEASUREMENT
SSD-TDR-63-259 N64-18027 10-29

EQUATIONS OF ORBITAL MECHANICS SHOWING INTER-RELATION AMONG SATELLITE ALTITUDE, SPEED, PERIOD, AND KINETIC AND POTENTIAL ENERGIES
SSD-TDR-64-20 N64-18028 10-29

METHOD OF AVERAGES IN CELESTIAL MECHANICS - FORMULAS FOR EFFECTS OF OBLATE PLANET ON SATELLITE ORBIT
NASA-CR-53530 N64-18217 10-05

SATELLITE ORBIT CALCULATION USING PROPAGATION DELAY FROM GROUND TRACKING STATION
N64-18229 10-23

CONTROL SYSTEM USING SOLAR FLUX AS FORCE TO CHANGE ORBITAL PARAMETERS OF PASSIVE COMMUNICATIONS SATELLITE
NASA-CR-53578 N64-18440 10-30

APPLICATION OF CELESTIAL MECHANICS TO ARTIFICIAL SATELLITE ORBIT CALCULATIONS USING ORBIT PERTURBATIONS
NASA-TM-X-51584 N64-18473 10-05

CORRECTION OF IN-PLANE INJECTION DELAY CAUSED BY ORBITAL PLANE REGRESSION IN LUNAR LAUNCH FROM ORBITING SPACE STATION
NASA-RP-160 N64-19032 11-29

ERROR ANALYSIS FOR POSITION AND VELOCITY PREDICTION OF NEARLY CIRCULAR SATELLITE ORBITS
W-6637 N64-19866 12-29

INTERPOLATION AND COORDINATE TRANSFORMATION PROGRAM PROVIDING ACCURATE LOCAL ANTENNA POINTING FROM PREDICTABLE SATELLITE POSITIONS
NASA-TN-D-2140 N64-21424 14-08

DETERMINATION OF MEAN ORBITAL ELEMENTS FOR YINTI SATELLITE THEORY
NASA-TN-D-2312 N64-21425 14-08

CELESTIAL MECHANICS - SURVEY OF SATELLITE ORBIT COMPUTATION METHODS
ESD-TDR-63-477 N64-21679 15-29

BIBLIOGRAPHY OF SATELLITE ORBIT DATA FROM RADIO OBSERVATIONS N64-21731 15-32

MATHEMATICAL TABLE OF TRIGONOMETRIC FUNCTIONS DESIGNED FOR DESK CALCULATOR TRANSFORMATION OF ARTIFICIAL EARTH SATELLITE COORDINATES
N64-21836 15-20

EQUATIONS FOR ROTATIONAL MOTIONS OF DYNAMICALLY SYMMETRICAL SATELLITE N64-22028 15-29

ROTATIONAL SPEED OF UPPER ATMOSPHERE DETERMINED FROM CHANGES IN SATELLITE ORBITS
RAE-TN-SPACE-59 N64-22498 15-29

RAPID COMPUTATION OF EARTH-SATELLITE EPHEMERIDES USING FOURIER SERIES
RAE-TN-SPACE-61 N64-22499 15-29

AERODYNAMIC LIFT EFFECT ON SATELLITE ORBITS
RAE-TN-SPACE-58 N64-23016 16-31

DETERMINATION OF SOME PARAMETERS OF EARTH ATMOSPHERE FROM SATELLITE MOTION
RAE-TRANS-1059 N64-23170 16-12

EARTH OBLATENESS AND SUN AND MOON GRAVITATION EFFECTS ON SATELLITE ORBIT PERTURBATIONS
RAE-TN-SPACE-52 N64-23268 16-29

INTERMEDIATE ORBITS OF SATELLITES - ANALYTICAL EXPANSIONS FOR COSMIC COORDINATES OF SATELLITES
N64-23853 16-29

INTERMEDIATE ORBITS OF SATELLITES WITH SMALL ECCENTRICITY N64-23854 16-29

SATELLITE SITUATION REPORT
NASA-TM-X-51694 N64-23933 16-31

PERTURBATION TECHNIQUES FOR SATELLITE DRAG-FREE ORBIT PREDICTION AND ERROR ESTIMATION
AL-TDR-64-70 N64-24982 17-29

EQUATIONS OF MOTION OF ARTIFICIAL SATELLITES WITHIN GRAVITY POTENTIAL OF EARTH
ONERA-TN-111 N64-25850 18-29

DESCRIPTION, LAUNCHING TECHNIQUES, SCIENTIFIC EXPERIMENTS, TRAJECTORY, AND ORBIT OF SAN MARCO SATELLITE N64-26201 18-32

ZONAL HARMONIC PERTURBATIONS OF ARTIFICIAL SATELLITE
BRL-1246 N64-26887 18-23

PRELIMINARY ORBITAL ELEMENTS OF SATELLITES AND INTERCONTINENTAL BALLISTIC MISSILES
N64-27205 19-29

METEOROLOGICAL SATELLITE COVERAGE OF REGIONS OF LOW ILLUMINATION FROM POLAR AND SUN-SYNCHRONOUS ORBITS
MSL-30 N64-27766 19-29

TABULATION OF SATELLITES IN ORBIT AND DECAYED OBJECTS AS OF 3 MAY 1964
NASA-TM-X-51811 N64-27825 19-32

TABULATION OF SATELLITES IN ORBIT AND OF DECAYED OBJECTS AS OF 2 MARCH 1962
NASA-TM-X-51780 N64-27834 19-32

IMPROVED THEORY OF MOTION OF ARTIFICIAL SATELLITE
BRL-1242 N64-28613 20-29

SATELLITES IN ORBIT - LAUNCH DATE, NODAL PERIOD, APOGEE, PERIGEE, AND TRANSMITTING FREQUENCY
NASA-TM-X-51909 N64-28763 20-32

SATELLITE ORBIT INFORMATION
NASA-TM-X-55044 N64-28896 20-29

EVOLUTION OF CIRCULAR ORBIT OF SATELLITE MOVING IN GRAVITATIONAL FIELD OF EARTH
N64-29077 21-29

COMPUTATION OF ORBITS AND EPHEMERIDES OF NEAR EARTH SATELLITES N64-29105 21-08

COMPUTER PROGRAM FOR SATELLITE ORBIT CALCULATION AND POSITION PREDICTION
SP-1665 N64-30137 21-29

PERTURBATION THEORY OF NEAR-EARTH SATELLITES
AFCRL-64-566/III/ N64-30945 22-29

GEODETIC APPLICATIONS OF SATELLITES
AFCRL-64-566/IV/ N64-30946 22-12

COMPUTING SATELLITE POSITION IN LOW-INCLINATION, LOW-ECCENTRICITY ORBITS INCLUDING OBLATE-EARTH CAUSED PERTURBATIONS
ESD-TDR-63-443 N64-31968 23-29

ORBITAL ELEMENTS IN 1963 FOR EXPLORER, VANGUARD, AND ECHO SATELLITES
NASA-CR-58842 N64-33118 24-08

ORBITAL ELEMENTS IN 1962 FOR VANGUARD, EXPLORER, TRANSIT, INJUN, MIDAS, AND TELSTAR SATELLITES AND FOR ECHO I CARRIER ROCKET - EPHEMERIDES
NASA-CR-58841 N64-33182 24-08

ORBITAL ELEMENTS AND EPHEMERIDES FOR ANNA, ECHO, EXPLORER, GEOPHYSICAL, INJUN, RELAY, TELSTAR, AND VANGUARD SATELLITES
NASA-CR-59294 N64-33334 24-29

FR-1 SATELLITE ORBIT INCLINATION
NASA-TT-F-9145 N64-33406 24-29

INTEGRATION CONSTANTS FOR ORBIT CALCULATIONS DETERMINED FROM SHORT ARCS - BAKER-NUNN OBSERVATIONS OF ECHO
NASA-TM-X-55080 N64-33623 24-29

APPLICATION OF VON ZEIPEL METHOD TO SATELLITE ORBITING UNDER GRAVITATIONAL FIELD INFLUENCE AND PERTURBATIONS DUE TO EARTH OBLATENESS
NASA-TM-X-55095 N64-33625 24-23

THRUST VECTOR CONTROL OF SATELLITES IN NEAR EARTH ORBIT
APL-TDR-64-17 N64-33712 24-27

COMPUTER PROGRAM FOR SATELLITE ORBIT EPHEMERIDES
U-2731 N64-33720 24-20

SATELLITE ORIENTATION
LIMITATIONS OF METEOROLOGICAL SATELLITE RADAR FOR OBSERVING MICROSCALE OR MESOSCALE PHENOMENA
NASA-CR-52848 N64-11384 02-21

RADIATION BANDS FROM CARBON DIOXIDE AND WATER - EARTH INFRARED HORIZON SCANNER ON SPACE VEHICLE AND SATELLITE ORIENTATION SYSTEM
N64-14999 06-12

PASSIVE GRAVITATIONAL ATTITUDE CONTROL SYSTEM FOR SATELLITE WHICH REQUIRES NO FUEL
N64-17556 09-30

ATMOSPHERIC DENSITY MEASUREMENT USING MANOMETERS MOUNTED IN UNORIENTED SATELLITE
NASA-TT-F-8568 N64-23120 16-12

TORQUE-PRODUCING FORCES AFFECTING SATELLITE ORIENTATION - EXPLORER SATELLITE DATA
NASA-TR-R-183 N64-27362 19-33

SATELLITE PERTURBATION
MOMENT OF FORCES ACTING ON SATELLITE IN GRAVITY FIELD OF GEOID
MH-TRANS-458 N64-11576 03-29

SATELLITE LIBRATION ON ELLIPTIC ORBIT
RM-3632-PR N64-16791 08-29

ZONAL HARMONIC PERTURBATIONS OF ARTIFICIAL SATELLITE
BRL-1246 N64-26887 18-23

PERTURBATION OF ALOUETTE B SATELLITE ORBIT
NASA-TM-X-55053 N64-27260 19-32

INFLUENCE OF PERTURBING FORCES ON TRACKING OF ORBITING SATELLITE
NASA-CR-58248 N64-28936 20-04

SECOND-ORDER SOLUTION OF ARTIFICIAL EARTH SATELLITE THEORY WITHOUT AIR DRAG
NASA-TN-D-1752 N64-30610 22-29

PHYSICAL AND SATELLITE GEODESY APPLICATIONS TO CELESTIAL MECHANICS AND ORBIT PREDICTION
AFCRL-64-566/I/ N64-30943 22-12

PERTURBATION EFFECTS ON SATELLITE ORBIT PARAMETERS DUE TO ZONAL GRAVITATIONAL HARMONICS
AFCRL-64-566/V/ N64-30947 22-29

SATELLITE PHOTOGRAPHY
PROCESSING OF DATA OBTAINED FROM VISUAL AND PHOTOGRAPHIC OBSERVATIONS OF SATELLITES
N64-16460 08-32

GRAPHIC ANALYSIS OF METEOROLOGICAL SATELLITE PHOTOGRAPHS
RP-17 N64-17531 09-15

TIROS I PICTURES OF MOUNTAIN PHENOMENA, ICE, SUN GLITTER, GULF STREAM, AND SOUTHERN HEMISPHERE CLOUDS N64-17918 10-21

GEOCENTRIC POSITION AND/OR ORBITAL PARAMETERS WITH STAR-SATELLITE PHOTOGRAPHY FROM SINGLE CAMERA STATION
CR-102-1 N64-18270 10-29

TIROS III SATELLITE PHOTOGRAPH OF FLORIDA
AFCRL-64-237 N64-18897 11-21

SATELLITE PHOTOGRAPHS OF CLEAR AIR TURBULENCE AND CLOUD PATTERNS
AD-432468 N64-21308 14-21

CAMERA WITH ENHANCED LIGHT GRASP FOR PRECISE SATELLITE RECORDING
RAE-TN-IR-30 N64-23376 16-31

PHOTOGRAPHY OF AIRGLOW LAYER BY ASTRONAUT DURING MERCURY /MA-9/ FLIGHT N64-29342 21-12

ATLAS OF PHOTOGRAPHY FROM TIROS SATELLITES I TO IV
NASA-CR-98 N64-30085 21-12

STEREOPHOTOGRAPHS OF MIDDLE CLOUD WAVE PATTERNS - MASS VELOCITY, PHASE VELOCITY, AND WIND SHEAR
AFCRL-64-465 N64-31372 23-21

ARTIFICIAL SATELLITE PHOTOGRAPHY OF CYCLONE AND BALLOON OBSERVATIONS OF THERMODYNAMIC STABILITY OF ATMOSPHERIC BOUNDARY LAYER
JPRS-26772 N64-32783 24-21

ARTIFICIAL SATELLITE PHOTOGRAPHY OF CYCLONE OVER CASPIAN SEA N64-32784 24-21

SATELLITE TRACKING
SA MINITRACK
SA OPTICAL SATELLITE TRACKING PROGRAM
SATELLITE TRACKING INSTRUMENTS, LUN-3 AND

SEMIAUTOMATIC TELESCOPE
JPRS-17775 N64-10719 02-08

DESCRIPTION OF NEW SATELLITE TRACKING INSTRUMENT, LUN-3 N64-10720 02-08

SEMIAUTOMATIC TELESCOPE FOR SATELLITE TRACKING WITH PRECISE GUIDANCE UNDER MANUAL CONTROL N64-10721 02-08

DIGITAL CONTROL & DATA PROCESSING EQUIPMENT FOR ANTENNA POINTING SYSTEM USED FOR SATELLITE TRACKING N64-10886 02-08

AUTOTRACK SYSTEM FOR HORN-REFLECTOR ANTENNA - ERROR CORRECTING DEVICE N64-10888 02-08

PRECISION TRACKER FOR DIRECTING HORN-REFLECTOR ANTENNA, LOCATING SATELLITE, AND TO PROVIDE DATA FOR ORBIT PARAMETER PREDICTION N64-10889 02-08

OPTIMIZING RADAR STATION LOCATIONS IN RELATION TO SATELLITE TRACKING
SSD-TDR-63-24 N64-12708 04-10

RADAR SEARCH PROCEDURES FOR SATELLITE LOST IN SKY
NASA-CR-53040 N64-13394 04-08

GEODETIC APPLICATIONS OF SATELLITE TRACKING N64-15280 07-12

INTERPRETATION OF DATA OBSERVED FROM SATELLITE WAKES IN UPPER ATMOSPHERE N64-15281 07-32

COMPUTER PROGRAM FOR SATELLITE POSITION COMPUTATION AT SPECIFIED TIME INCREMENTS
TM-/L/-742/006/00 N64-15367 07-20

ULTRAVIOLET IMAGING FROM SATELLITES N64-15456 07-23

HANDLING OPERATIONS OF SATELLITE TRACKING DATA BY DEEP SPACE INSTRUMENTATION FACILITY
NASA-CR-53065 N64-15792 07-08

SATELLITE SITUATION REPORT
NASA-TM-X-51543 N64-18099 10-32

STATION LOCATIONS FOR LOW ALTITUDE SATELLITE TRACKING NEAR EQUATORIAL ORBITS
SSD-TDR-64-27 N64-18223 10-10

SATELLITE RATED MISTRAM TRANSPONDER - TRACKING
AFCRL-64-36 N64-18608 11-30

CONICAL SCANNING ERROR SIGNAL OF BROADBAND ANTENNA IN SATELLITE TRACKING
EDL-M442 N64-19558 12-09

INTERFEROMETRY FOR AEROSPACE VEHICLE DETECTION AND SATELLITE RECOGNITION N64-23011 16-15

OPTIMUM PERFORMANCE OF X-Y ANTENNA MOUNT FOR SATELLITE TRACKING AND DATA ACQUISITION
NASA-TN-D-1697 N64-23341 16-09

LUNAR SATELLITE TRACKING AND ORBIT CALCULATION
NASA-CR-56279 N64-23944 16-32

SATELLITE TRACKING AND DATA ACQUISITION NETWORK /STADAN/ FACILITIES
NASA-TM-X-55026 N64-27258 19-08

ANTENNAS AT NASA SATELLITE TRACKING AND SPACE DATA ACQUISITION NETWORK /STADAN/ FACILITIES
NASA-TM-X-55031 N64-27259 19-08

INFLUENCE OF PERTURBING FORCES ON TRACKING OF ORBITING SATELLITE
NASA-CR-58248 N64-28936 20-08

STELLAR ASTRONOMY AND ASTROPHYSICS, ASTRONOMICAL INSTRUMENTATION, SATELLITE TRACKING, AND SEISMOLOGY N64-29945 21-05

COMPARISON OF CONTINUOUS WAVE RANGING SYSTEMS FOR SATELLITE TRACKING, TELEMETRY, AND COMMAND SYSTEMS
SSD-TDR-63-334, VOL. 2 N64-30530 22-08

SATELLITE POSITION AND VELOCITY ACCURACY AS FUNCTION OF TRACKING DATA, NUMBER OF PASSES, AND STATION LATITUDE SEPARATION
WDL-TR-1943, VOL. IV N64-31139 22-08

COMPUTER PROGRAM TO CALCULATE ACQUISITION COORDINATES OF EARTH SATELLITES FOR TRACKING AND FIXED BEAM SURVEILLANCE SENSORS
U-1854 N64-32389 23-20

OPTICAL SATELLITE TRACKING PROGRAM
NASA-CR-55652 N64-33135 24-08

SATELLITE TRANSMISSION
IONOSPHERIC PARAMATERS FROM PHASE DIFFERENCE AND ROTATION OF POLARIZATION PLANE OF COHERENT SIGNALS FROM COSMOS I & COSMOS II SATELLITES N64-10277 01-12

IONOSPHERE ELECTRON DENSITY FROM PHASE SHIFT AND ROTATION OF PLANE OF POLARIZATION OF COHERENT SIGNALS TRANSMITTED FROM SATELLITES N64-10278 01-12

ORBITAL ELEMENT, POWER LEVEL OF SATELLITE SIGNAL, & ELECTRICAL CIRCUIT BEHAVIOR OF TELSTAR SATELLITE IN SPACE ENVIRONMENT N64-10894 02-29

COMMUNICATIONS TESTING OF TELSTAR SATELLITE AT ANDOVER GROUND STATION N64-10896 02-08

COHERENT RADIO RECEIVER FOR RECORDING DIFFERENCE IN DOPPLER SHIFT OF RADIO-WAVE FREQUENCY OF SATELLITE TRANSMISSIONS N64-12503 04-08

RANDOM ACCESS STATIONARY SATELLITE RELAY COMMUNICATION SYSTEM
PCE-R-1152-0020A N64-16163 08-08

POLARIZATION MEASUREMENTS DURING SCINTILLATION OF RADIO SIGNALS FROM TRANSIT IVA SATELLITE N64-24006 16-08

FARADAY FADINGS OF SATELLITE SIGNALS TO DETERMINE QUANTITY OF ELECTRONS IN VERTICAL COLUMN OF UNIT CROSS SECTION
JPRS-26345 N64-29540 21-12

DIURNAL VARIATION OF IONOSPHERIC ELECTRON CONTENT FROM DOPPLER SLOPES OF SIMULTANEOUS SATELLITE SIGNALS
MRI-106.04 N64-32443 23-12

SATURATION
TRANSMISSION OF INFRARED RADIATION THROUGH LIQUID WATER AND WATER VAPOR NEAR SATURATION LIMITS N64-15003 07-23

SURFACE DIFFUSION SATURATION OF METALS AND REFRACTORY SURFACE COATINGS
JPRS-24165 N64-18401 10-18

SATURATION ION CURRENTS TO LANGMUIR PROBES
MATT-272 N64-27450 19-24

SATURN I /SA-1/ LAUNCH VEHICLE
FLOW SEPARATION EFFECT ON LARGE SPACE BOOSTER - SATURN I /SA-1/ LAUNCH VEHICLE
AIAA PAPER-64-482 N64-26253 18-30

SATURN I /SA-2/ LAUNCH VEHICLE
SOUND MEASUREMENTS DURING LAUNCH OF SATURN I /SA-2/ VEHICLE
NASA-TM-X-51699 N64-24000 16-30

SATURN I /SA-3/ LAUNCH VEHICLE
OVERALL STRUCTURE, AND STRUCTURE OF BOOSTER STAGE, SECOND STAGE, PROPULSION SYSTEM, AND EQUIPMENT PODS OF SATURN I /SA-3/ LAUNCH VEHICLE
GD/A-63-0187 N64-27633 19-31

SATURN I /SA-4/ LAUNCH VEHICLE
DYNAMIC ENVIRONMENT OF SATURN S-IV STAGE DURING TRANSPORTATION N64-23136 16-30

SATURN I /SA-5/ LAUNCH VEHICLE
SATURN I /SA-5/ LAUNCHING N64-13937 05-31

EVALUATION OF ATMOSPHERIC CONDITIONS DURING FLIGHT

TEST OF SATURN I /SA-5/ LAUNCH VEHICLE
NASA-TM-X-53040 N64-26804 18-32

THERMAL DESIGN OF SATURN I /SA-5/ LAUNCH VEHICLE PAYLOAD
NASA-TM-X-53074 N64-34005 24-32

SATURN I /SA-6/ LAUNCH VEHICLE
MISSION AND FLIGHT SEQUENCE OF SATURN I /SA-6/ LAUNCH VEHICLE
N64-20492 13-30

VIBRATION TEST & DYNAMIC BEHAVIOR OF SATURN SA-6 FLIGHT VEHICLE
NASA-TM-X-53029 N64-22464 15-33

SATURN I /SA-6/ LAUNCH VEHICLE FLIGHT EVALUATION
N64-23248 16-31

PERFORMANCE ANALYSIS OF SATURN I /SA-6/ LAUNCH VEHICLE AND APOLLO SPACE SYSTEM
NASA-TM-X-55104 N64-33626 24-08

SATURN I /SA-7/ LAUNCH VEHICLE
SATURN I /SA-7/ LAUNCH IN APOLLO PROJECT
NASA RELEASE-64-228 N64-29335 21-30

SATURN I LAUNCH VEHICLE
AERODYNAMIC HINGE MOMENTS CAUSED BY EXTERNAL FLOW ON SATURN I, BLOCK I NOZZLE CONFIGURATIONS
NASA-TM-X-51044 N64-10105 01-30

AXIAL FORCE, STABILITY, & ENVIRONMENTAL PRESSURE DATA ANALYSES FROM FLIGHT EVALUATION OF SATURN I, BLOCK I VEHICLES
NASA-TN-D-2002 N64-14392 06-30

FLIGHT EVALUATION OF VEHICLE BENDING DATA FOR SATURN I LAUNCH VEHICLE - STRUCTURAL VIBRATION, DYNAMIC RESPONSE N64-18545 11-30

DESTRUCTIVE TESTING OF SCALE MODEL SATURN I LAUNCH VEHICLE
NASA-TM-X-53007 N64-22480 15-31

SATURN I FLIGHT TEST EVALUATION
AIAA PAPER-64-322 N64-23227 16-31

SATURN I PROGRAM - SCHEDULE FOR SATURN IB LAUNCH VEHICLE AND DESCRIPTION OF ROCKET
AIAA PAPER-64-272 N64-23348 16-30

THREE-DIMENSIONAL MULTIPLE BEAM ANALYSIS OF SATURN I VEHICLE
NASA-TM-X-53098 N64-30027 21-20

SATURN I, SATURN IB, AND SATURN V LAUNCH VEHICLES N64-30333 22-31

PROPULSION DEVELOPMENT PROBLEMS OF SATURN I AND SATURN V LIQUID ROCKET VEHICLES
NASA-TM-X-53075 N64-32486 23-31

SATURN IB LAUNCH VEHICLE
SATURN I PROGRAM - SCHEDULE FOR SATURN IB LAUNCH VEHICLE AND DESCRIPTION OF ROCKET
AIAA PAPER-64-272 N64-23348 16-30

LOCAL PRESSURE COEFFICIENT DISTRIBUTIONS ON SATURN IB AND SATURN S-IB TAIL SHROUDS AT SUPERSONIC SPEEDS
TB-AE-64-10 N64-29595 21-31

SATURN I, SATURN IB, AND SATURN V LAUNCH VEHICLES N64-30333 22-31

SATURN /PLANET/
SPECTROSCOPY OF JUPITER, SATURN, URANUS, AND NEPTUNE - ATMOSPHERIC, THERMAL, AND KINEMATIC PROPERTIES
NASA-CR-53574 N64-18453 10-05

SATURN V LAUNCH VEHICLE
ADAPTIVE CONTROL OF SATURN V ASCENT TRAJECTORY TO EARTH ORBIT N64-16522 08-22

GUIDANCE EQUATIONS FOR SATURN V THIRD STAGE POWERED TRANSITION FROM EARTH ORBIT TO EARTH-MOON TRAJECTORY N64-16523 08-22

STATIC STABILITY OF SATURN V SCALE MODELS IN TRANSONIC WIND TUNNEL
AEDC-TDR-64-40 N64-17522 09-30

AERODYNAMIC CHARACTERISTICS OF SATURN V LAUNCH VEHICLE FOR REACTOR IN-FLIGHT TEST /RIFT/ PROJECT
NASA-CR-56646 N64-24017 16-27

GROUND SUPPORT EQUIPMENT FOR SATURN V VEHICLE LAUNCH COMPLEX
NASA-TM-X-51767 N64-24122 16-30

NASA PROGRAM FOR DEVELOPMENT OF SATURN V LAUNCH VEHICLE
AIAA PAPER-64-271 N64-24237 17-32

AERODYNAMIC CHARACTERISTICS OF SATURN V LAUNCH VEHICLE AT SUPERSONIC SPEEDS
NASA-TN-D-2352 N64-25912 18-02

TRANSONIC AERODYNAMIC AND BUFFET CHARACTERISTICS OF PACKAGED MANNED ORBITAL SPACE STATION /MOSS/ ON SATURN V LAUNCH VEHICLE
NASA-TM-X-1000 N64-28318 20-32

EXPLOSIVE FORMING OF ALUMINUM FOR NONSYMMETRICAL PARTS IN SATURN V LAUNCH VEHICLE TANK
NASA-CR-58718 N64-29226 21-17

SATURN I, SATURN IB, AND SATURN V LAUNCH VEHICLES N64-30333 22-31

LAUNCH FACILITIES FOR SATURN V VEHICLE N64-30334 22-10

SATURN V LAUNCH VEHICLE HIGH PRESSURE LIQUID HELIUM STORAGE BOTTLE
NASA-CR-58784 N64-30517 22-10

ENGINE AND PUMP INLET DUCT GIMBAL JOINT SYSTEM IN S- IC STAGE OF SATURN V LAUNCH VEHICLE
NASA-TN-D-574 N64-30993 22-17

ALUMINUM ALLOY INGOT GORE SEGMENT FABRICATION FOR SATURN V LAUNCH VEHICLE BULKHEADS
NASA-TM-X-53033 N64-31724 23-17

PROPULSION DEVELOPMENT PROBLEMS OF SATURN I AND SATURN V LIQUID ROCKET VEHICLES
NASA-TM-X-53075 N64-32486 23-31

SATURN LAUNCH VEHICLE
GROUND COOLING AIR-CONDITIONER FOR SATURN BOOSTER AND TOP INSTRUMENT COMPARTMENTS
NASA-CR-55218 N64-13001 04-04

MAGNETIC TAPE FOR SATURN LAUNCH VEHICLE GROUND STATION COMPUTER SYSTEM
NASA-CR-52633 N64-13065 04-09

BIBLIOGRAPHY - SATURN SYSTEM
NASA-TM-X-50409 N64-14274 06-30

FLIGHT CONTROL COMPUTER FOR SATURN LAUNCH VEHICLE N64-16170 08-22

SPACE FLIGHT AND GUIDANCE THEORY - SATURN LAUNCH VEHICLE AND TRAJECTORIES
NASA-TM-X-54562 N64-16521 08-22

VIBRATION TESTING OF SATURN LAUNCH VEHICLE
NASA-TM-X-54641 N64-16709 08-30

MANNED SPACE FLIGHT PROGRAM, JANUARY THROUGH JUNE 1963 - SATURN AND RIFT PROJECTS
NASA-TM-X-51523 N64-17796 09-18

7090 COMPUTER ANALYSIS OF WIND VELOCITY - SATURN VEHICLE FLIGHT SIMULATION
NASA-TM-X-51542 N64-18101 10-20

RESPONSE TO ACOUSTIC EXCITATION OF STRUCTURAL PANELS FROM SATURN ENGINE SHROUDS
NASA-CR-53394 N64-18103 10-33

VIBRATION ENVIRONMENT OF SATURN LAUNCH VEHICLE FLIGHTS N64-18544 11-30

ATMOSPHERIC ACOUSTIC FACTORS IN SATURN LAUNCH

VEHICLE TESTING - REDUCTION BY WEATHER FORECASTING
AIAA PAPER-64-207 N64-21537 15-30

ADAPTIVE LOAD RELIEF CONTROL SYSTEM FOR SATURN-TYPE LAUNCH VEHICLE
AIAA PAPER-64-239 N64-21539 15-06

POST-SATURN LAUNCH VEHICLES
AIAA PAPER-64-279 N64-23349 16-31

ALUMINUM TRUSS DESIGNS IN SATURN LAUNCH VEHICLE AND APOLLO SPACECRAFT
NASA-TM-X-51843 N64-26368 18-10

SATURN LAUNCH VEHICLE LONG RANGE AZIMUTH ALIGNMENT THEODOLITE
NASA-CR-58047 N64-27268 19-15

TRANSIENT HEAT TRANSFER AND STRESS ANALYSIS OF BASE HEAT SHIELD PANEL OF SATURN IC LAUNCH VEHICLE
NASA-CR-58045 N64-27269 19-13

DYNAMIC SIMULATION OF STABILIZED PLATFORM FOR GUIDANCE AND CONTROL OF SATURN LAUNCH VEHICLE
NASA-TM-X-51783 N64-27272 19-06

PRODUCTION METHOD FOR FABRICATION OF ALUMINUM ALLOY - FORGED FITTINGS FOR TANKAGE SYSTEM OF SATURN LAUNCH VEHICLE
NASA-CR-58029 N64-27895 20-18

METHODS FOR REDUCING NOISE PRODUCED BY STATIC TESTING OF SATURN LAUNCH VEHICLE
NASA-TN-D-2351 N64-28322 20-23

FREQUENCY TRACKING SQUARE WAVE OSCILLATOR FOR SATURN LAUNCH VEHICLES
NASA-TR-R-208 N64-30612 22-09

BIBLIOGRAPHY ON WIND-INDUCED OSCILLATIONS OF SATURN BOOSTER IN VERTICAL LAUNCH POSITION
NASA-CR-59329 N64-33769 24-33

SATURN S- IB STAGE
LOCAL PRESSURE COEFFICIENT DISTRIBUTIONS ON SATURN IB AND SATURN S-IB TAIL SHROUDS AT SUPERSONIC SPEEDS
TB-AE-64-10 N64-29595 21-31

SCALE
CALCULATING REGULATOR SCALE FOR RC NETWORK SIGNAL GENERATOR N64-29127 21-15

RUSSIAN DEVELOPMENT OF MAGNITUDE AND ENERGY SCALES FOR SEISMOLOGICAL MEASUREMENT OF EARTHQUAKES N64-30380 22-12

METHODS FOR ENLARGEMENT OF DEFLECTION ANGLE AND LINEARIZATION OF SCALE OF ELECTROMETER N64-31854 23-15

SCALE EFFECT
SIMULATION AND SCALE-UP EFFECTS ON PERFORMANCE OF ROCKET NOZZLE MATERIALS N64-32694 24-17

SCALE HEIGHT
GRADIENTS OF SCALE HEIGHTS IN ISOTHERMAL LAYER OF HETEROSPHERE N64-33260 24-21

SCALE MODEL
THERMAL SCALE MODELING TECHNIQUES FOR SPACECRAFT ENVIRONMENTAL SIMULATION TESTING
NASA-CR-52598 N64-11078 02-02

DESIGN, CONSTRUCTION, & OPERATION OF SCALE MODEL SELF-DEPLOYING SPACE STATION
NASA-CR-52907 N64-11728 03-32

VIBRATION AND DYNAMIC RESPONSE OF SCALE MODEL OF NIMBUS SPACECRAFT SATELLITE N64-18541 11-30

DESTRUCTIVE TESTING OF SCALE MODEL SATURN I LAUNCH VEHICLE
NASA-TM-X-53007 N64-22480 15-31

BEHAVIOR OF NONLINEAR SIGNAL MIXING N64-22811 16-09

PRESSURE DISTRIBUTION ON SCALE MODEL RADOME N64-23671 16-10

DAVID TAYLOR MODEL BASIN - DESCRIPTION OF FACILITY AND EQUIPMENT
DTMB-1809 N64-24195 16-10

RADAR CROSS SECTION MODEL FABRICATION USING WOOD N64-24314 17-08

METAL SPRAYING OF GLASS FIBER RADAR TARGET MODELS N64-24315 17-08

SURFACE ROUGHNESS AND TOLERANCES IN MODELS FOR RADAR SCATTERING MEASUREMENTS N64-24320 17-08

SCALING OF MODELS WITH RADAR ATTENUATION COATINGS FOR MEASUREMENT OF RADAR REFLECTION PROPERTIES IN ANECHOIC CHAMBER N64-24323 17-08

FLIGHT TEST OF SCALE MODEL VECTORED-THRUST JET VTOL TRANSPORT AIRCRAFT
NASA-TN-D-2285 N64-26412 18-04

FORCE-TESTS OF SCALE MODEL OF MODIFIED VZ-2 AIRCRAFT
NASA-TN-D-2382 N64-26773 18-04

EFFECT OF WING STALLING IN TRANSITION ON 1/4-SCALE MODEL OF VZ-2 AIRCRAFT
NASA-TN-D-2381 N64-26840 18-04

EFFECTIVENESS OF VIBRATION DAMPING AND ISOLATION METHODS IN REDUCING DYNAMIC RESPONSE OF SCALE MODELS OF NIMBUS SATELLITE
NASA-TN-D-2418 N64-27360 19-33

EXPERIMENTAL THERMAL SCALING LAWS APPLIED TO SPACECRAFT
NASA-CR-56624 N64-27394 19-13

DIAGNOSING SYSTEMS BY CONSTRUCTING SCALE MODELS USING MULTIPARAMETER OPTIMIZATION N64-28348 20-09

THERMAL SCALE MODELING FOR SPACE VEHICLES - THERMALLY SIMILAR MODEL DERIVED FROM MATHEMATICAL MODEL OF PROTOTYPE
NASA-RP-300 N64-28706 20-13

TRANSONIC WIND TUNNEL TEST OF SCALE MODEL DE HAVILLAND BLUE STREAK MISSILE - DYNAMIC STABILITY AND STATIC PRESSURE
ARC-CP-734 N64-29234 21-04

DESIGN AND CONSTRUCTION OF SCALE MODELS TO YIELD ACCURATE RESULTS THROUGH PHOTOMECHANICS N64-29268 21-33

USE OF SCALE MODEL TO CONTROL FUSELAGE RESPONSE TO ACOUSTIC EXCITATION FROM PROPELLER SLIPSTREAM N64-29269 21-33

EXPERIMENTAL TEST WITH DYNAMICALLY SCALED DROP TEST MODEL OF LUNAR LANDING VEHICLE N64-29632 21-10

ENGINEERING DRAWINGS AND SCALE MODEL TESTING OF X-22A TRI-SERVICE V/STOL AIRCRAFT
REPT.-2127-933017 N64-29721 21-04

TRANSONIC BUFFET WIND TUNNEL INVESTIGATION ON SCALE MODEL OF FORWARD PORTION OF GEMINI LAUNCH VEHICLE
LV-279-II N64-31835 23-33

SCALING
CONTINUOUSLY SCALED AND LOG-PERIODIC STRUCTURES - ANTENNAS
TR-73 N64-13039 04-09

HEAT TRANSFER MEASUREMENTS AND SCALING PROBLEM IN SPACECRAFT MODEL
NASA-CR-53455 N64-18131 10-13

LIMITS ON BINARY SCALING OF HYPERSONIC SHOCK LAYER CHARACTERISTICS FROM MODEL TO FULL SCALE SIZE
CARDE-TR-499/64 N64-20884 14-02

PSYCHOLOGICAL MULTIDIMENSIONAL SCALING OF ANALYSIS OF CONCEPT DIFFICULTY OF ELECTRONIC CIRCUITS
TR-39 N64-23142 16-09

TREATMENT OF HOT-SPRING WATER WITH SOLID INHIBITORS TO REDUCE SCALING AND CORROSION
N64-24278 17-07

BROADBAND MICROWAVE POWER LIMITERS - SCALING, BIAS CRYSTALS, DIODE MOUNTS, AND LOW POWER PERFORMANCE OF L BAND-S BAND UNIT
QPR-3 N64-25527 17-09

NONEQUILIBRIUM SCALING OF HIGH ENTHALPY GAS FLOWS
TR-64-02C N64-27569 19-11

UPPER ATMOSPHERE WIND SHEAR ANALYSIS BY GRAVITY WAVE SCALING APPLIED TO FIREFLY PROJECT DATA
N64-31397 23-12

SCANDIUM
MASS SPECTROMETRIC DETERMINATION OF DISSOCIATION ENERGY OF SCANDIUM, YTTRIUM, LANTHANUM, & YTTRIUM-LANTHANUM ALLOY
WADD-TR-60-782, PT. 19 N64-14514 06-07

ABUNDANCE OF RARE EARTH ELEMENTS, YTTRIUM AND SCANDIUM, IN NAKHLITIC ACHONDRITES - METEORITE COMPOSITION
N64-17561 09-05

CHROMATOGRAPHIC CONCENTRATION AND SPECTROGRAPHIC DETERMINATION OF CADMIUM, YTTRIUM, SCANDIUM AND LANTHANON TRACES IN URANIUM METAL
EUR-587.E N64-20878 14-07

RATIO OF TWO ISOMERS OF SCANDIUM 44 PRODUCED BY SCANDIUM 43 /D,T/ SCANDIUM 45 N64-30481 22-23

SCANNING
SMALL & LARGE SIZE RADIOALBUMIN AGGREGATES FOR PHOTOSCANNING LIVER, SPLEEN, LUNGS, & OTHER ORGANS
UCLA-519 N64-13004 04-16

COMPARISON OF CONICAL SCAN, AMPLITUDE MONOPULSE, & PHASE MONOPULSE TRACKING SYSTEMS
EDL-M541 N64-17644 09-08

CONICAL SCANNING ERROR SIGNAL OF BROADBAND ANTENNA IN SATELLITE TRACKING
EDL-M442 N64-19558 12-09

METHOD OF RAPID SCANNING OF SOLAR SIMULATION SOURCES
N64-28204 20-10

PHOTOELECTRIC AND THERMIONIC SCANNER MEASUREMENTS OF SURFACE IONIZATION FROM POLYCRYSTALLINE MOLYBDENUM IN CESIUM VAPOR ATMOSPHERE
NASA-CR-59008 N64-32893 24-09

OPTICAL DIFFRACTION SCANNING FOR FREQUENCY CONTENT AND CHANGES IN VARIABLE-DENSITY SEISMOGRAM
REPT.-4596-17-R N64-33579 24-23

TABLES OF SCAN NADIR AND HORIZONTAL ANGLES FOR ANALYSIS OF METEOROLOGICAL SATELLITE RADIOMETER DATA
SMRP RES. PAPER-31 N64-33793 24-21

MICHIGAN PROJECT COMBAT SURVEILLANCE AND TARGET ACQUISITION RADAR - GEOMETRIC DISTORTIONS IN FIELD OF VIEW OF ROTATING-OBLIQUE MIRROR SCANNING SYSTEM
REPT.-6400-10-T N64-33956 24-15

SCANNING DEVICE
SA IMAGE TRANSDUCER
MICROWAVE RADIOMETER TERRAIN SCANNING SYSTEM IN B-25 AIRCRAFT N64-10925 02-21

GENERAL PURPOSE, COMPUTER CONTROLLED SCANNING INSTALLATION FOR INVESTIGATION OF IMAGE RECOGNITION ALGORITHMS N64-11036 02-20

THERMAL ANALYSIS OF SCANNING SPECTROMETER FOR ORBITING SOLAR OBSERVATORY S-57
AFCRL-63-700 N64-12290 03-29

OPTICAL, MECHANICAL, & ELECTRONIC PARAMETERS OF LUNAR AND PLANETARY HORIZON SENSOR SCANNING DEVICES
NASA-CR-55106 N64-12397 03-15

STEERABLE, SCANNING ANTENNA OPERATING IN MILLIMETER WAVELENGTH
RADC-TDR-63-344 N64-12585 04-08

SCANNABLE PHOTOSENSITIVE IMAGE DETECTOR FOR COHERENT LIGHT
RADC-TDR N64-14352 06-09

MACROPROGRAMMING TO GENERATE AUTOCODER INSTRUCTIONS FOR FREE FORMAT SCAN OF CORE AREA - IBM 7070 COMPUTER
IS-765 N64-14418 06-20

COHERENT OPTICAL BEAM ELECTRONIC SCANNING TECHNIQUES
RADC-TDR-63-450, VOL. I N64-14494 06-25

MULTIPLE BEAM INTERVAL SCANNER ANTENNA SYSTEM FOR WIDE ANGLE SCANNING IN ONE PLANE
AFCRL-63-535 N64-14664 06-09

COMPARISON BETWEEN SIMULATANEOUS AND SEQUENTIAL DISTANCE-SCANNING CIRCUITS IN COHERENT-PULSE STATION WITH FREQUENCY-MODULATED RADAR
N64-15144 07-08

COMPUTER PROGRAMMING FOR HARD POINT DEFENSE AND OTHER FLYING SPOT SCANNING DEVICES USING 7090 COMPUTERS
CERN-63-34 N64-15615 07-20

SCANNING DEVICE FOR PHOTOGRAPHIC FILM, WITH OUTPUT AS DIGITAL DATA FOR COMPUTER PROCESSING
UCRL-7619 N64-17291 09-15

REVISIONS FOR TRACK-WHILE-SCAN NAVIGATION SYSTEMS REFORMULATION OF LEAST SQUARES NAVIGATION COMPUTATION AND ERROR ANALYSIS
NASA-CR-53651 N64-18499 10-22

X-RAY SCAN TELEVISION SYSTEM FOR INSPECTION OF FIBERGLASS REINFORCED PLASTIC ROCKET MOTOR CASES
WAL-TR-142.5/2-6 N64-18613 11-17

COMPUTER REQUIREMENTS FOR SCANNING CAMERA NAVIGATION SYSTEM
CDC-TM-9552-6 N64-20002 13-20

EFFECT OF SURFACE DEFORMATION IN ROTATING OBLIQUE SCANNING MIRRORS ON IMAGE QUALITY IN FLYING-SPOT SCANNERS
REPT.-2900-469-T N64-20081 13-23

ULTRASONIC LIGHT SCANNING AND ACTIVE OPTICAL IMAGING SYSTEM
C930080-6 N64-20393 13-25

PHOTOSCANNING OF HUMAN LUNG WITH MACROAGGREGATES OF HUMAN SERUM RADIOALBUMIN
UCLA-12-521 N64-20672 13-14

NEW RADAR EQUIPMENT - TRACKING RADAR, LINEAR PHASED ANTENNA ARRAYS, SCANNING DEVICE, LASERS, AND THREE-DIMENSIONAL RADAR
JPRS-24841 N64-21044 14-00

LOW-THRUST COLD-GAS MASS EXPULSION SYSTEMS, HORIZON SCANNER, & DIGITAL LOGIC CONTROLLER COMPONENTS FOR SATELLITE ATTITUDE CONTROL
SSD-TDR-64-86 N64-22324 15-00

SODIUM VAPOR AND SCANNING FABRY-PEROT SPECTROMETER FOR AEROSPACE VEHICLE DETECTION
N64-23010 16-15

COMPUTER PROGRAM FOR MONTE CARLO ERROR ANALYSIS OF SCANNING CAMERA NAVIGATION CONCEPT
NASA-CR-56455 N64-24044 16-22

FUNCTIONAL OPERATION OF PHOTO SCANNING DEVICE FOR MEASUREMENT OF NUCLEAR TRACKS ON BUBBLE CHAMBER PHOTOGRAPHS
CERN-64-28 N64-26520 18-19

DISCRETE ACTIVITY INDICATOR SYSTEM DESIGNED TO PREPROCESS INPUT SIGNALS - SCANNING DEVICE
NASA-TM-X-53045 N64-27239 19-09

PHOTOSENSITIVE IMAGE DETECTOR TO RESPOND TO MODULATION AT MICROWAVE FREQUENCY
RADC-TDR-64-221 N64-27457 19-15

HIGH RESOLUTION SCANNING DEVICE FOR PHOTOGRAPHS TO GIVE TELEVISION SIGNALS
RB-64-33 N64-28465 20-08

APPLICATION OF OPTIMAL LINEAR FILTERING THEORY TO ESTIMATION OF PITCH ATTITUDE OF ORBITING SPACECRAFT - HORIZON SCANNER
SSD-TDR-64-147 N64-28539 20-09

CONSTRUCTION AND CALIBRATION OF SCANNING AND MEASURING PROJECTOR - DATA REDUCTION SYSTEM TO DIGITIZE COORDINATES OF BUBBLE CHAMBER PARTICLE TRACKS
UCRL-11372 N64-28779 20-15

AUTOMATIC CHROMOSOME ANALYSIS - AUTOMATIC MICROSCOPE, DIGITAL SCANNER, AND COMPUTER PROGRAM
NASA-CR-58533 N64-29698 21-15

AUTOMATED OPTICAL FILM SCANNER - SPARK CHAMBER READER
BNL-877/T-353/ N64-30377 22-15

ULTRASONIC LIGHT SCANNING CELL DEVELOPMENT AND ACTIVE OPTICAL IMAGING SYSTEM
REPT.-0930080-12 N64-30889 22-15

MODEL OF PHOTOELECTRIC SCANNING SYSTEM FOR AURORAL HEIGHT MEASUREMENT IN REAL TIME
RS-13 N64-32818 24-12

SCANNING PRINTER APPLICATION TO ANALYSIS OF TIROS METEOROLOGICAL SATELLITE RADIATION DATA
NASA-CR-58975 N64-33096 24-15

DESIGN, COMPUTER SIMULATION, AND FEASIBILITY OF TRACK-WHILE-SCAN NAVIGATION CONCEPT
NASA-CR-59297 N64-33335 24-22

SCATTERING
SA ATMOSPHERIC SCATTERING
SA DIFFRACTION
SA DIFFUSION
SA ELASTIC SCATTERING
SA ELECTROMAGNETIC SCATTERING
SA ELECTRON SCATTERING
SA FEYNMAN DIAGRAM
SA INELASTIC SCATTERING
SA LIGHT SCATTERING
SA NEUTRON SCATTERING
SOUND SCATTERING IN TURBULENT FLOW
N64-10025 01-11

ELECTROMAGNETIC WAVE SCATTERING IN TROPOSPHERE - RADIO WAVE SCATTERING FORMULAS
JPRS-21717 N64-10203 01-12

BRIGHTNESS OF DIFFUSING, CONTAMINANT GLOW CLOUDS IN UPPER ATMOSPHERE - CHEMILUMINESCENCE AND SOLAR RAY SCATTERING
MSA-84 N64-10223 01-12

PLANAR CASE OF THREE-PARTICLE SCATTERING - ELASTIC & INELASTIC COLLISIONS
NASA-CR-52223 N64-10237 01-23

PLASMA RESONANCE IN INCOHERENT SCATTERING OF RADIO WAVES FROM FULLY IONIZED PLASMA
RM-3696-PR N64-10246 01-24

ANGULAR SCATTERING FROM IRREGULARLY SHAPED PARTICLES WITH APPLICATION TO ASTRONOMY
NASA-RP-64 N64-10331 01-29

DIRECTIONAL SCATTERING OF ULTRAHIGH FREQUENCY RADIO SIGNALS BY METEOR TRAILS
JPRS-17555 N64-10563 01-05

TRANSPORT PROPERTIES AND SCATTERING IN MOLECULAR GASES
NASA-CR-52874 N64-11295 02-23

SCATTERING OF ELECTROMAGNETIC WAVES BY PERFECTLY REFLECTING OBJECTS OF COMPLEX SHAPE - RADAR CROSS SECTION
TR-EE63-8 N64-11537 03-09

SCATTERING FACTORS FROM HARTREE SELF-CONSISTENT-FIELD WAVE FUNCTIONS FOR ELEMENTS AND IONS
LA-2987 N64-11985 03-23

TROPOSPHERIC SCATTERING REDUCTION OF POWER AND ANALOG COMPUTER SIMULATION TEST FOR CONTROLLED CARRIER POWER TRANSMISSION
AFCRL-63-159/REV./ N64-12052 03-08

FREQUENCY AND DURATION OF FADINGS AT TROPOSPHERIC SCATTER INTERVALS
E-T-R-G-63-4 N64-12278 03-09

ORTHOGONAL FUNCTION AND WAVE EQUATION OF INVERSE SCATTERING PROBLEM IN QUANTUM MECHANICS
ARL-63-217 N64-12353 03-20

MULTIPLE COHERENT SCATTERING OF OPTICAL RESONANCE RADIATION APPLIED TO MERCURY
E-T-F-63-2 N64-12860 04-23

INELASTIC SCATTERING OF HIGH ENERGY ELECTRONS FROM CARBON, OXYGEN, AND CALCIUM
AD-424383 N64-12924 04-23

DETECTION OF SCATTERING LAYERS IN UPPER ATMOSPHERE BY OPTICAL RADAR N64-13148 04-25

SCATTERING OF MOLECULES FROM SURFACES - APPARATUS MISALIGNMENT EFFECTS ON DIRECTION & INTENSITY OF INCIDENT & SCATTERED BEAMS
K-1584 N64-13389 04-23

MULTIPLE SCATTERING OF PHOTONS BY MERCURY ATOMS
E-T-F-63-3, PT. 3 N64-13863 04-29

ELEMENTARY SOURCE DESCRIPTION OF SCATTERING AND DIFFRACTION
RAD-TR-62-13 N64-14124 05-23

RAYLEIGH SCATTERING OF RUBY LASER BEAMS BY LIGHT GASES
AFCRL-63-549 N64-14684 08-25

DETECTOR-ANALYZER FOR STUDYING PROTON AND ION ENERGY DISTRIBUTION IN INTERPLANETARY SPACE AT SATELLITE ALTITUDES
NASA-TN-D-2111 N64-14727 06-24

RESONANT SCATTER DETECTION OF RAREFIED FUEL SURROUNDING MIDCOURSE VEHICLES N64-15264 07-21

ION DENSITY MEASUREMENT IN BARIUM PLASMA BY SCATTERING OF RESONANCE RADIATION
MATT-207 N64-15356 07-24

RADIATION THEORY AND SCATTERING PROCESSES OF HIGHER ORDER
TIL/T-5425 N64-15555 07-23

INVERSE SCATTERING PROBLEM IN QUANTUM MECHANICS - INVERSION OF EIGENVALUE PROBLEMS
WIS-TCI-15 N64-15649 07-20

RESONANCES IN SCATTERING THEORIES OF NUCLEAR REACTIONS
KFKI-1467 N64-15919 07-20

ELASTIC SCATTERING OF HIGH ENERGY MOLECULAR BEAMS
N64-16245 08-23

LASER - STIMULATED RAMAN SCATTERING AND RELATED PARAMETRIC EFFECTS N64-16442 08-23

OPTICAL MASER APPLIED TO BRILLOUIN SCATTERING SPECTROSCOPY
AD-432142 N64-16834 08-25

INCOHERENT ELECTROMAGNETIC SCATTERING FROM DRIVEN PLASMA OSCILLATIONS
MATT-230 N64-16937 09-24

INCOHERENT SCATTERING OF RADIO WAVES FROM HOT PLASMA USING QUANTUM ELECTRODYNAMICAL COMPUTING METHODS
RM-3440-PR N64-17300 09-24

ECHO DETERMINATION OF LAMINAR MISSILE WAKE BY GRADIENT SCATTERING
RM-3466-ARPA N64-17301 09-08

SEMICONDUCTOR DEVICE - PHONON DRAG STUDY OF SCATTERING IN SILICON
AD-432700 N64-17661 09-25

PION-PROTON ELASTIC SCATTERING IN 300- TO 700-MEV ENERGY RANGE
UCRL-11180 N64-17978 10-23

BOUNDARY CONDITION MODEL FOR ANTINUCLEON-NUCLEON SCATTERING
UR-875-24 N64-17982 10-23

PROPAGATION OF ELECTROMAGNETIC WAVES IN RANDOM MEDIUM AND MULTIPLE SCATTERING
NASA-CR-53408 N64-18174 10-23

PROTON AND ELECTRON EMISSION COMPONENTS OF COSMIC RAYS
NASA-CR-53589 N64-18433 10-28

PLASMA DIAGNOSTICS USING RAMAN SCATTERING OF LASER BEAM FROM PLASMAS
RADC-TDR-64-5 N64-18566 11-24

ATOMIC SCATTERING FACTOR OF NEON, ARGON, KRYPTON, AND XENON
AMRA-TR-63-15 N64-18571 11-23

ACOUSTIC EFFECTS OF MARINE ORGANISMS ON SOUND-SCATTERING LAYERS
JPRS-24274 N64-18970 11-23

SCATTERING FACTORS FOR ATOMS AND IONS COMPUTED FROM DIRAC-SLATER WAVE FUNCTIONS
LA-3056 N64-19281 11-23

RADAR SCATTER FROM LUNAR AND TERRESTRIAL SURFACES COMPARED WITH THEORETICAL CALCULATION
N64-19586 12-05

ACOUSTIC SCATTERING BY TURBULENCE IN WIND TUNNELS
AGARD-461 N64-19912 12-23

PROPAGATION, SCATTERING, AND GENERAL CHARACTERISTICS OF UPPER ATMOSPHERE
N64-20752 14-12

INCOHERENT SCATTERING AS TECHNIQUE IN IONOSPHERIC INVESTIGATIONS N64-20767 14-12

ADVANCED LASER CONCEPTS - ZEEMAN EFFECT LASERS, GAMMA LASERS, RAMAN SCATTERING LASERS AND OTHERS
AID-P-64-35 N64-20850 14-25

RESONANCE SCATTERING THEORY - MULTIPLE CHANNEL COLLISIONS OF NUCLEAR PARTICLES
REPT.-2-12-64-1 N64-20890 14-23

APPROXIMATION METHOD FOR SOLUTION OF TWO-DIMENSIONAL SCALAR SCATTERING PROBLEMS
ESD-TDR-64-13 N64-21624 15-09

DIGITAL COMPUTER PROGRAM USING MONTE CARLO METHOD FOR COMPUTING MULTIPLE SCATTERED RADIO FIELDS IN TROPOSPHERE
CRL-272-4 N64-21710 15-08

HYDROGEN CELL AND ION CHAMBER FOR OBTAINING PHOTOELECTRIC DATA ON RESONANCE SCATTERING AT LYMAN ALPHA LINE
NASA-TN-D-2148 N64-22018 15-23

NEUTRON THERMALIZATION, BERYLLIUM SCATTERING, AND FAST NEUTRON SHIELDING RESEARCH
GA-4659 N64-22250 15-23

FREQUENCY STEPPING METHOD FOR RADAR SCATTERING MEASUREMENT - ROTATION OF COMPLEX TARGET TO OBTAIN RADAR CROSS-SECTION PATTERN
FZE-222-3 N64-22555 15-08

INTENSITY PROFILE OF HIGH-ENERGY PROTON SCATTERING IN GRAPHITE, LEAD, COPPER, AND ALUMINUM
N64-22867 16-23

STELLAR CLOUD AND MASS SCATTERING PROPERTIES
N64-23183 16-29

SCATTERING BY CELLULAR PLASTIC MATERIALS
REPT.-5849-1-F N64-23325 16-18

NANOSECOND PULSED RADAR SCATTERING SYSTEM WITH GATED RECEIVER N64-24306 17-08

PULSE RADAR SCATTERING FROM LINEAR TARGETS USING X-BAND RADAR WITH NANOSECOND PULSE WIDTH
N64-24319 17-08

SURFACE ROUGHNESS AND TOLERANCES IN MODELS FOR RADAR SCATTERING MEASUREMENTS N64-24320 17-08

RADAR SCATTERING RANGE FACILITY
N64-24739 17-08

RELATION OF VEGETATION ALBEDO DIURNAL VARIATION TO SOLAR RADIATION SCATTERING N64-24792 17-21

QUANTUM MECHANICS IN SMALL ANGLE MOLECULAR BEAM SCATTERING N64-24996 17-23

CROSS SECTION OF PION NUCLEAR SCATTERING
AD-437662 N64-25029 17-23

SCATTERING OF PROTONS BY RADIOACTIVE OXYGEN
UCRL-7648 N64-25357 17-23

MULTIPLE SCATTERING IN DIFFUSION APPROXIMATION
IDA/HQ-63-2209 N64-25499 17-23

USE OF INTENSITY RATIO OF COHERENT TO INCOHERENT SCATTERING OF X-RAYS FOR DETERMINATION OF CARBON TO HYDROGEN RATIO IN ORGANIC COMPOUNDS
EUR-488.F N64-26100 18-07

GLOBAL COMMUNICATIONS NETWORK UTILIZING ORBITING DIPOLES AS SCATTERING MEDIUM
RADC-TDR-64-187, VOL. I N64-26170 18-08

WEST FORD ORBITAL SCATTER COMMUNICATIONS SYSTEM
ESD-TDR-63-591 N64-26266 18-08

SCATTERING PARAMETERS OF POLYDISPERSED HYDROMETEORS - SCATTERING & ABSORPTION COEFFICIENTS OF RAINDROPS
P-2914 N64-26448 18-08

PROLATE SPHEROID ELECTROMAGNETIC & ACOUSTIC SCATTERING
REPT.-3648-6-T N64-26976 19-08

ACCURACY OF ROUTINE PROPAGATION MEASUREMENTS ON TROPOSCATTER LINKS IN COMMUNICATION NETWORK
TM-90 N64-27099 19-08

INTERSTELLAR MATERIAL AND STRUCTURE OF GALAXIES
N64-27198 19-05

MAGNETIC FIELD EFFECTS ON MOLECULAR BEAM SCATTERING FROM TARGET ROTOR
AST-3530-102-64U N64-27232 19-11

POLARIZATION PROGRAMMING IN TROPOSPHERIC SCATTER PROPAGATION COMMUNICATION SYSTEM
RADC-TDR-64-258, VOL. II N64-27427 19-08

INTERBAND AND INTRABAND SCATTERING IN N-TYPE GERMANIUM
ARPA-TR-10 N64-27448 19-23

SCATTERED RADIATION FROM COBALT 60 SOURCE IN BRICK STRUCTURE
SAM-TDR-64-14 N64-27474 19-23

SCATTERING PROPERTIES OF PARABOLOIDAL REFLECTOR, HORN, AND STUB ANTENNAS
REPT.-1223-12 N64-27528 19-08

SCATTERING BY SINGLE LOGARITHMIC POTENTIAL
UR-875-50 N64-27763 19-23

TRIPLE SCATTERING PARAMETER MEASUREMENT IN PROTON-PROTON SCATTERING
UR-875-48 N64-28511 20-23

SCATTERING OF INFRARED RADIATION BY AEROSOL CLOUD OF FINE PARTICLES
ARL-64-109 N64-28557 20-23

ENERGY DEPENDENT PION-NUCLEON PHASE SHIFT ANALYSIS AND COMPARISON OF SOLUTION WITH PION-NUCLEON SCATTERING DATA
UCRL-7846 N64-28699 20-23

LYMAN ALPHA RESONANT SCATTERING IN UNIFORM HYDROGEN GAS USING STOKES VECTORS AS RANDOM VARIABLES IN MONTE CARLO TYPE CALCULATION
NASA-TM-X-55062 N64-28742 20-23

ANTENNA HEIGHT DIVERSITY FOR IONOSPHERIC SCATTERING COMMUNICATION SYSTEM
TM-92 N64-28823 20-08

THEORY OF SCATTERING OF EXCITATIONS IN SOLIDS, SOLID STATE ANALOG OF USUAL PARTIAL WAVE EXPANSION OF SCATTERING AMPLITUDE, AND APPLICABILITY OF THEORY TO PHONONS, SPIN WAVES, AND ELECTRONS
TR-2 N64-29554 21-25

SCATTERING FROM PLANE INFINITE INHOMOGENEOUS LAYERS UNDER NORMAL OBLIQUE OR INCIDENCE
TR-3 N64-29684 21-23

FORMULATION OF TWO SCATTERING PROBLEMS INVOLVING MOVING MEDIA USING MAXWELL-MINKOWSKI EQUATIONS
NASA-CR-58565 N64-29692 21-11

SCATTERING OF ELECTROMAGNETIC RADIATION IN TRANSVERSE MAGNETIC MODE BY PLASMA CYLINDERS WITH VARYING ELECTRON DENSITY DISTRIBUTIONS
RM-3574-ARPA N64-29919 21-24

CHEMICAL ANALYSIS OF HEAVY ATOMS IN LOW ATOMIC NUMBER MEDIA BASED ON RAYLEIGH SCATTERING OF X-RADIATION FROM RADIOISOTOPE SOURCE
TID-20643 N64-30745 22-23

ELECTRIC CONDUCTIVITY FORMULA APPLIED TO ELECTRON SCATTERING AND INTERACTION WITH PHONONS
AD-603082 N64-31450 23-23

SCATTERING OF SOLAR RADIATION BY COMET OUTBURST PARTICLES
AFCRL-64-746 N64-31738 23-05

SCATTERING OF PLANE WAVES ON SURFACE OF INFINITE REGION N64-31746 23-23

ATMOSPHERIC EXTINCTION AND ALTITUDE VARIATION OF RAYLEIGH SCATTERING, AEROSOL ATTENUATION, AND OZONE ABSORPTION COEFFICIENTS IN ULTRAVIOLET REGION
AFCRL-64-400 N64-31804 23-21

HIGH RESOLUTION ENERGY LOSS MAGNETIC ANALYZER FOR SCATTERING EXPERIMENTS
LNF-64/41 N64-32007 23-10

LOW FREQUENCY APPROXIMATIONS FOR SCATTERING BY DIELECTRIC ELLIPTIC CYLINDERS USED IN MATHIEU FUNCTION SERIES SOLUTION
EDL-M725 N64-32562 23-23

ATMOSPHERIC ATTENUATION OF INFRARED RADIATION OVER SHORT DISTANCES - ABSORPTION AND SCATTERING
SSD-TDR-64-167 N64-32566 23-12

ELECTROMAGNETIC WAVE PROPAGATION IN IONOSPHERE - SCATTER AND IMPEDANCE
JPRS-27125 N64-33226 24-08

CORRELATION FUNCTIONS FOR SCATTER PROPAGATION IN RADAR SYSTEM
USCEE-110 N64-33363 24-08

ANALYTICAL AND ANALOG TECHNIQUES FOR REDUCING EXTRANEOUS SIGNALS IN RADAR SCATTERING MEASUREMENTS
FZE-222-8 N64-33411 24-08

SCATTERING COEFFICIENT
ABSORPTION AND SCATTERING COEFFICIENTS OF PLANE ELECTROMAGNETIC WAVE IMPINGING ON SPHERICAL SHELL N64-22839 16-09

SCATTERING CROSS SECTION
BACKSCATTERING CROSS SECTION MIXTURES OF ICE & WATER - RADAR ECHO
AFCRL-63-760 N64-12294 03-23

ELASTIC SCATTERING CROSS SECTIONS FOR SLOW ELECTRONS INCIDENT ON SODIUM & POTASSIUM
NASA-CR-55166 N64-13373 04-23

SLOW NEUTRON SCATTERING FROM ANHARMONIC CRYSTALS - DAMPING THEORY AND SCATTERING CROSS SECTION N64-14916 06-23

BORN APPROXIMATION FOR CALCULATING SCATTERING CROSS SECTION FROM CHARGED PARTICLE AND ATOMIC COLLISION N64-17008 09-23

FORWARD DIFFERENTIAL CROSS SECTION FOR PION ELASTIC CHARGE-EXCHANGE SCATTERING
UCRL-11150 N64-17836 09-23

SLOW NEUTRON SCATTERING CROSS SECTIONS OF MOLECULAR HYDROGEN AND DEUTERIUM
NASA-CR-54001 N64-18279 10-23

CALCULATION OF CROSS SECTIONS FOR VIBRATIONAL EXCITATION OF CARBON DIOXIDE BY COLLISION WITH NITROGEN
GDA-DBE-64-004 N64-18624 11-23

COMPARISON OF PRECIPITATION AND TROPOSPHERIC SCATTERING CROSS SECTIONS
TR-1 N64-21798 15-08

EFFECTIVE COLLISION CROSS SECTIONS IN MONOCHROMATIC BEAM SCATTERING
NASA-TT-F-8880 N64-23050 16-23

DETERMINING SCATTER CROSS SECTION PER UNIT AREA OF ARBITRARY SURFACE BY MEASURING POWER RECEIVED
NASA-CR-56310 N64-24113 16-29

EFFECTIVE SCATTERING CROSS SECTIONS OF TARGETS, HALF-WAVE DIPOLES, FLAT SURFACES, TARGET GROUPS, AIRCRAFT, AND SHIPS N64-24636 17-09

ANTIHYPERON-NUCLEON SCATTERING CROSS SECTION CALCULATIONS
UR-875-28 N64-26686 18-23

SCATTERING SPECTROMETER TO MEASURE TOTAL ABSOLUTE CROSS SECTION FOR SCATTERING ELECTRONS
NASA-CR-58052 N64-26868 18-23

ATOMIC COLLISIONS AND BEAM SCATTERING STUDIES - SCATTERING CROSS SECTIONS OF ALKALI METAL ATOMS BY RARE GASES
GDA-DCE-64-037 N64-27552 19-23

INTERACTION POTENTIALS FROM VELOCITY DEPENDENCE OF TOTAL ATOM-ATOM SCATTERING CROSS SECTION N64-27553 19-23

LOW ENERGY ELECTRON SCATTERING FROM METASTABLE HELIUM N64-27555 19-23

INTERACTION POTENTIALS FROM VELOCITY DEPENDENCE OF TOTAL ATOM-ATOM SCATTERING CROSS SECTIONS N64-27556 19-23

VELOCITY DEPENDENCE OF TOTAL CROSS SECTION FOR METASTABLE HELIUM SCATTERING BY HELIUM, ARGON, AND KRYPTON N64-27557 19-23

EXPRESSION FOR CREEPING WAVE CONTRIBUTION TO RADAR SCATTERING CROSS SECTION FROM CONE-SPHERE
REPT.-64SD701 N64-27603 19-08

CREEPING WAVE CONTRIBUTION TO MONOSTATIC RADAR SCATTERING CROSS SECTION FROM HOMOGENEOUS SPHERE AS FUNCTION OF INDEX OF REFRACTION
REPT.-64SD702 N64-27608 19-08

ATOMIC AND MOLECULAR COLLISION CROSS SECTIONS IN

CONTROLLED THERMONUCLEAR RESEARCH - BIBLIOGRAPHY
ORNL-3113, REV. N64-27948 20-23

SEMICLASSICAL CALCULATION OF DIFFERENTIAL SCATTERING CROSS SECTION WITH CHARGE EXCHANGE - CESIUM IONS IN CESIUM VAPOR
NASA-TN-D-2484 N64-28339 20-24

COMPILATION OF NEUTRON CROSS SECTIONS FOR OXYGEN AND NITROGEN PERTINENT TO RADIATION SHIELDING AND NEUTRON TRANSPORT STUDIES
NARF-62-17T N64-28906 20-23

MODIFICATION OF ELECTROMAGNETIC SCATTERING CROSS SECTIONS IN RESONANT REGION
AFCRL-64-727/I/ N64-31813 23-08

COMPUTATION OF CESIUM-CESIUM TOTAL SCATTERING CROSS SECTION USING LENNARD-JONES PARAMETERS
NASA-TM-X-52060 N64-32436 23-11

SCATTERING FUNCTION
APPROXIMATE SOLUTION OF RADIATIVE TRANSFER PROBLEM IN ANISOTROPIC SCATTERING
NASA-TT-F-9141 N64-33405 24-12

SCATTERING MATRIX
SCATTERING MATRIX TECHNIQUE FOR SOLVING SOME ELECTROMAGNETIC AND ACOUSTIC WAVE PROPAGATION BOUNDARY VALUE PROBLEMS
TR-72 N64-13966 05-20

ANOMALOUS BEHAVIOR OF COULOMB T SCATTERING MATRIX
NASA-RP-178 N64-21277 14-23

GENERALIZED SCATTERING MATRIX ANALYSIS OF WAVEGUIDE DISCONTINUITY PROBLEMS
AFCRL-64-290 N64-22690 15-08

PRECISION MEASUREMENT OF RADAR SCATTERING MATRIX OF RESONANT DIPOLE CHAFF WITH RADAR CROSS SECTION MEASUREMENT APPARATUS N64-24298 17-08

PHASE MEASUREMENT IN PULSED RADAR CROSS SECTION SYSTEM AND USE FOR MEASUREMENT OF SCATTERING MATRIX AND BACKGROUND SUBTRACTION N64-24304 17-08

ELEMENTARY PROPERTIES OF SCATTERING MATRIX NORMALIZED TO COMPLEX N-PORT LOAD NETWORKS
R-206 N64-27857 19-09

MATRIX ELEMENTS FOR POLARIZED FERMION SCATTERING
ARL-64-162 N64-30949 22-23

RAT SCAT - GROUND PLANE RADAR CROSS SECTION RANGE FOR MEASURING ARBITRARY TARGETS WITH CIRCULAR POLARIZATION AND MEASURING LINEAR SCATTERING MATRICES
FZE-222-2 N64-31949 23-10

SCATTERING MATRIX MEASUREMENTS OF GROUND PLANE RADAR CROSS SECTION RANGE
FZE-222-4 N64-32253 23-08

SCHEDULING
NASA SCHEDULE OF FIRE PROJECT LAUNCHINGS N64-18112 10-30

SCHEDULING IN MULTIPLE SATELLITE ENVIRONMENT BY SATELLITE CONTROL FACILITY
SP-1466 N64-25997 18-01

LOCATION AND SCHEDULING OF OPERATION OF ECCENTRIC GEOPHYSICAL OBSERVATORY /EGO/ IN GEGENSCHEIN REFERENCE SYSTEM
NASA-TM-X-55032 N64-27813 19-29

ECONOMICS OF SCHEDULING CARGO AND PASSENGER AIRCRAFT SERVICE
FTD-TT-63-789/1 N64-29588 21-01

DYNAMIC PROGRAMMING FOR OPTIMAL SCHEDULING OF APPARATUS N64-30216 22-20

SCHIFF CALCULATION
ELECTROPHYSICAL AND SEMICONDUCTOR PROPERTIES OF CONJUGATED BOND POLYMERS - SCHIFF BASES
JPRS-21573 N64-10116 01-07

SCHIZOPHRENIA
EFFECTS OF ATROPINE ON REFLEXES OF SCHIZOPHRENIA PATIENTS N64-31460 23-14

SCHLIEREN PHOTOGRAPHY
SPARK SCHLIEREN PHOTOGRAPHS OF FREE & SUPPORTED CONE AND SPHERE MODEL SUPERSONIC & HYPERSONIC WAKES
NASA-CR-53014 N64-13270 04-02

SERVOMECHANISM FOR CONTROL OF KNIFE EDGE IN SCHLIEREN PHOTOGRAPHY SYSTEM
AEDC-TDR-64-126 N64-22607 15-10

PLASMA DENSITY MEASUREMENT IN RAIL ACCELERATOR BY SCHLIEREN PHOTOGRAPHY
GA-4735 N64-32686 23-24

HIGH INTENSITY SPARK LIGHT SOURCE OF SHORT DURATION FOR SCHLIEREN & DIRECT SHADOW PHOTOGRAPHY
TN-SE-5-64 N64-33438 24-09

SCHMIDT CAMERA
FIELD FLATTENING LENS DESIGNED FOR PARTIALLY CORRECTED INFRARED SCHMIDT SYSTEM
WRE-TN-CPD-84 N64-28128 20-15

SCHMIDT NUMBER
S MASS
S VISCOSITY

SCHROEDINGER EQUATION
SCHROEDINGER OPERATORS IN EUCLIDEAN SPACE
MRC-441 N64-16622 08-23

ANALYTIC PROPERTIES OF SOLUTIONS OF SCHROEDINGER EQUATION AS FUNCTION OF WAVE NUMBER - ONE-DIMENSIONAL BLOCH FUNCTION
ARL-64-38 N64-17619 09-20

REMOVAL OF ELECTRON-ELECTRON POLES FROM MANY-ELECTRON HAMILTONIANS TO REDUCE DIFFICULTIES IN SOLUTION OF SCHROEDINGER EQUATION N64-18053 10-23

MAGNETIC BREAKDOWN OF BAND STRUCTURE OF ELECTRON IN SIMPLE CRYSTAL N64-20413 13-25

EXACT SOLUTION OF SCHROEDINGER EQUATION FOR INVERSE FOURTH POWER POTENTIAL
UR-875-23 N64-26683 18-20

WAVE FUNCTION & PHASE SHIFT IN RADIAL SCHROEDINGER EQUATION FOR HIGHLY SINGULAR REPULSIVE POTENTIALS
UR-875-51 N64-28273 20-23

SCHROEDINGER EQUATION ANGULAR MOMENTUM PARTIALS FOR THREE BODY PROBLEM
NASA-TM-X-55102 N64-33636 24-23

SCHULER TUNING
S FEEDBACK CONTROL SYSTEM
S INERTIAL NAVIGATION

SCHUMANN-RUNGE BAND SYSTEM
CF QUANTUM THEORY
CF SPECTRUM
ELECTRONIC TRANSITION MOMENT FOR SCHUMANN-RUNGE BAND SYSTEM OF OXYGEN - NUCLEAR PHYSICS
AD-434357 N64-18494 10-23

SCHWARZ INEQUALITY
INEQUALITIES COMPLEMENTARY TO SCHWARZ INEQUALITY IN HILBERT SPACE - MATHEMATICS
NOLTR-64-26 N64-18583 11-23

SCHWARZSCHILD METRIC
CF COORDINATE TRANSFORMATION
CF RELATIVITY THEORY
SCHWARZSCHILD METRIC AND WHITEHEAD THEORY OF GRAVITATION
TR-1 N64-23106 14-23

SCIENCE /GEN/
SA MATERIALS SCIENCE
SA SPACE SCIENCE
CF ENVIRONMENTAL SCIENCE
REPORT OF RUSSIAN SCIENCE & TECHNOLOGY
JPRS-19016 N64-10507 01-01

SIGNIFICANCE OF CYBERNETICS IN SCIENCE, ECONOMY, & TECHNOLOGY
JPRS-18033 N64-11024 02-09

ACHIEVEMENTS OF PHYSICAL SCIENCES AND ENGINEERING
JPRS-19020 N64-11062 02-18

USE OF SPACE AGE SCIENCE AND TECHNOLOGY TO SOLVE SOCIOECONOMIC PROBLEMS OF METROPOLITAN AREAS RESULTING FROM INDUSTRIAL GROWTH
NASA-SP-37 N64-11502 03-01

SPACE AGE TECHNIQUES AND SCIENCE FOR METROPOLITAN AREA SOCIOECONOMIC PROBLEMS N64-11503 03-01

SPACE SCIENCE & ENGINEERING AND THE SPACE PROGRAM N64-11506 03-01

SPACE SCIENCE AND TECHNOLOGY AND SOCIOECONOMIC PROBLEMS N64-11507 03-01

CHANGES IN INDUSTRY AND ECONOMICS N64-11508 03-01

SCIENCE, TECHNOLOGY, GROWTH OF INDUSTRY, AND SOCIOECONOMIC PROBLEMS N64-11509 03-01

EXPANSION OF SCIENCE, GROWTH OF THE ECONOMY, POLITICS AND SOCIOLOGY N64-11511 03-01

SOCIOECONOMIC PROBLEMS ARISING FROM ADVANCES IN SCIENCE & TECHNOLOGY AND THE SPACE PROGRAM N64-11513 03-01

EFFECT OF SCIENTIFIC DEVELOPMENTS ON TRANSPORTATION, COMMUNICATION, POWER RESOURCES, AND CONSTRUCTION INDUSTRIES N64-11514 03-01

SPACE TECHNOLOGY AND SCIENTIFIC TECHNIQUES IN THE SOLUTION OF SOCIOECONOMIC PROBLEMS OF INDUSTRIAL METROPOLITAN AREAS N64-11520 03-01

HISTORY OF SCIENCE AND TECHNOLOGY - AIRCRAFT, ROCKETS, AND SPACE FLIGHT
NASA-TM-X-51269 N64-11896 03-01

SCIENTIFIC RESEARCH AND ITS PRACTICAL APPLICATION
JPRS-22398 N64-11922 03-01

PROJECTS & PLANS FOR SCIENTIFIC RESEARCH IN SIBERIA
FTD-TT-63-237/1 N64-12373 03-10

CYBERNETICS AND PROGRESS IN SCIENCE & TECHNOLOGY N64-12508 04-16

ACTIVITY REPORTS OF GERMAN INSTITUTES - 1962
OVL-ANN-6 N64-13475 05-01

SOVIET ADVANCEMENTS IN SCIENCE & TECHNOLOGY
JPRS-21990 N64-14342 06-01

ACTIVITIES OF INSTITUTE OF BASIC TECHNICAL PROBLEMS OF POLISH ACADEMY OF SCIENCES N64-14413 06-10

SAFETY & HAZARDS IN SCIENCE & TECHNOLOGY N64-14553 06-01

SCIENTIFIC RESEARCH AND DEVELOPMENT MANAGEMENT IN NATO N64-15102 07-01

SOVIET SCIENCE & TECHNOLOGY - LITERATURE SURVEY
AID-P-63-2 N64-16994 09-01

SPACE SCIENCES PROGRAM - PHYSICAL SCIENCES, BIOLOGY, ENGINEERING, & BUSINESS ADMINISTRATION N64-19096 11-01

FUTURE TRENDS IN SOVIET SCIENCE AND TECHNOLOGY
AID-P-64-6 N64-19961 12-01

MOLDING SCIENCE TO MARX-LENIN IDEOLOGY WITHIN SOVIET UNION
RM-3619-PR N64-20154 13-01

SCIENCE AND TECHNOLOGY IN COMMUNIST CHINA
JPRS-24593 N64-20924 14-01

AEROSPACE TECHNOLOGY AND SCIENCE N64-21548 15-01

MANAGEMENT PLANNING FOR FUTURE SCIENCE RESEARCH FACILITIES N64-21606 15-01

BIBLIOGRAPHY ON ETHICAL AND SOCIAL PROBLEMS OF SCIENCE AND TECHNOLOGY
LAMS-3028 N64-22060 15-01

SCIENCE AND TECHNOLOGY IN CHINA
JPRS-24758 N64-22876 16-01

SURVEY OF SCIENTIFIC RESEARCH IN UNITED STATES - BIBLIOGRAPHY N64-27208 19-01

HEALTH, SPACE SCIENCE AND TECHNOLOGY, BIOLOGY, AND PHYSIOLOGY
JPRS-25506 N64-28009 20-16

VARIOUS SCIENCE AND TECHNOLOGICAL ACTIVITIES IN COMMUNIST CHINA
JPRS-25656 N64-28041 20-07

SCIENCE AND TECHNOLOGY IN COMMUNIST CHINA
JPRS-25267 N64-28728 20-01

PHYSICAL SCIENCES - CONTROLLED RELEASE OF THERMONUCLEAR ENERGY, MEASUREMENT APPARATUS, CONFERENCES, AND PUBLICATIONS
AEC-TR-5332 N64-29052 21-23

CONTRIBUTION OF MAGIC, MYSTERY, SUPERSTITION, AND RELIGION TO CONTEMPORARY SCIENTIFIC METHOD
P-2930 N64-29950 21-01

SIGNIFICANCE OF HALL OF SCIENCE, NEW YORK CITY, IN UNDERSTANDING SCIENTIFIC DISCIPLINES - DEDICATION REMARKS N64-32380 23-01

AEROSPACE RESEARCH - NUCLEAR PHYSICS, AND PHYSICAL, MATHEMATICAL, ENGINEERING, ENVIRONMENTAL, AND LIFE SCIENCES
OAR-64-6 N64-32592 23-10

GENERAL SCIENCE - METABOLISM, MICROBIOLOGY, AND CHEMISTRY
JPRS-26991 N64-33957 24-16

SCIENTIFIC SATELLITE
VOLTAGE AND CURRENT MONITOR FOR SCIENTIFIC SATELLITE
NASA-TM-X-51639 N64-23949 18-09

UNMANNED SPACECRAFT - DEEP SPACE PROBES AND SCIENTIFIC AND APPLICATIONS SATELLITES
NASA-EP-16 N64-24240 17-32

DESCRIPTION AND SCIENTIFIC EXPERIMENTS OF IMP-B INTERPLANETARY EXPLORER SATELLITE N64-32635 23-32

SCIENTIST
CURRENT PROBLEMS IN MANAGEMENT OF SCIENTIFIC PERSONNEL N64-21601 15-01

CAREER DEVELOPMENT OF FEDERAL SCIENTISTS AND ENGINEERS - RECOGNITION OF RESEARCH COMPETENCE N64-21602 15-01

MANAGEMENT OF SCIENTIFIC PERSONNEL - INCENTIVES AND EVALUATION N64-21603 15-01

MANAGEMENT OF SCIENTIFIC PERSONNEL - SENIOR SCIENTISTS N64-21604 15-01

MANAGEMENT OF SCIENTIFIC PERSONNEL - PSYCHOLOGICAL CHARACTERISTICS AND IDENTIFYING SUPERIORITY N64-21605 15-01

INTERFERENCE OF OUTSIDE INTERESTS WITH SCIENTIFIC CAREER N64-21607 15-01

TRAINING OF SCIENTISTS IN USSR
JPRS-27116 N64-33855 24-14

SCINTILLATION
HYDROGEN ATOM, GASEOUS DIFFUSION, COSMIC RAY, SCINTILLATION, AND WIND DISTRIBUTION STUDIES

ANL-6769 N64-17107 09-23

SCINTILLATIONS IN ARGON AND NITROGEN
N64-17111 09-23

SCINTILLATION AND SHIMMER EFFECTS ON VISUAL OBSERVATION OVER SNOW, ICE, AND FROZEN GROUND
RR-111 N64-22520 15-15

DEPENDENCE OF AURORAL ZONE SATELLITE SCINTILLATION ON GEOMAGNETIC ACTIVITY
SR-3 N64-25081 17-12

GEOGRAPHICAL DISTRIBUTION OF SATELLITE SCINTILLATION ACTIVITY ABOVE NORTHERN SCANDINAVIA
AFCRL-64-268 N64-25082 17-12

ATMOSPHERIC SCINTILLATION OBSERVED AT SUNSET AT 3 CM WAVELENGTH
E-T-F-63-8 N64-25321 17-28

SCINTILLATION SPECTROMETRY GAMMA-RAY SPECTRUM CATALOG - DESCRIPTION OF EXPERIMENTAL TECHNIQUES, AND NUMERICAL DATA USED IN COMPILATION OF GAMMA RAY SPECTRA
IDO-16880-1 N64-30673 22-23

SCINTILLATION SPECTROMETRY GAMMA-RAY SPECTRUM CATALOG - MASTER INDEX AND GRAPHIC DATA
IDO-16880-2 N64-30674 22-23

HEIGHT OF SCINTILLATION-PRODUCING IRREGULARITIES - RELATION BETWEEN AURORAL ZONE SCINTILLATION AND IONOSPHERIC & GEOMAGNETIC CONDITIONS
AFCRL-64-741 N64-31736 23-12

LABORATORY EXPERIMENTS ON APPLICATION OF PULSE NEUTRON SOURCE IN WELL LOGGING - SCINTILLATION DETECTORS N64-31790 23-12

F REGION IRREGULARITIES STUDIED BY SCINTILLATION OF SIGNALS FROM SATELLITES N64-32527 23-12

RADIO SIGNAL SCINTILLATION FROM CASSIOPEIA A DURING SOLAR ECLIPSE
AFCRL-64-662 N64-32629 23-28

ANGULAR SCINTILLATION CORRELATION FUNCTION OF DISTORTED WAVE FRONT
TM-131 N64-32764 24-08

ALTITUDE OF SCINTILLATION SOURCE IN AURORAL ZONE FROM GEODETIC SATELLITE SIGNAL
AFCRL-64-742 N64-33271 24-12

EXAMINATION OF DECAY CHARACTERISTICS OF STRONTIUM BY GAMMA RAY SCINTILLATION SPECTROMETRY AND BETA RAY PROPORTIONAL COUNTING
USNRDL-TR-733 N64-33523 24-23

COMPUTER PROGRAM FOR ANALYZING COMPLEX GAMMA RAY SPECTRA OBTAINED WITH SCINTILLATION SPECTROMETERS
IDO-17015 N64-33964 24-23

SCINTILLATION COUNTER
COMPARISON OF GAMMA ENERGY RESPONSE OF PORTABLE SCINTILLOMETER TO IONIZATION CHAMBER
UCRL-10986 N64-10397 01-15

DISCRIMINATION OF SPURIOUS TRACKS IN SCINTILLATION COUNTER
LNF-63/65 N64-13423 05-23

POSITRON SCINTILLATION CAMERA FOR DETECTING REAL AND SIMULATED BRAIN TUMORS N64-15215 07-16

WHOLE-BODY SCINTILLATION COUNTER IN STUDY OF CALCIUM 47 TURNOVER N64-15216 07-16

LARGE-AREA PLASTIC SCINTILLATION COUNTERS - CONSTRUCTION AND PERFORMANCE
CERN-64-4 N64-15611 07-23

ALPHA DECAY SCINTILLATION COUNTER FOR URANIUM SURFACE CONTAMINATION MEASUREMENT OF NUCLEAR REACTOR FUEL
HW-78268 N64-15998 07-23

SCINTILLATION SPECTROMETER RESPONSE TO GAMMA RADIATIONS OF NEUTRON DEFICIENT ISOTOPES
IDO-16969 N64-20504 13-23

AUTOMATIC SAMPLE CHANGER FOR GAMMA SCINTILLATION WELL DETECTOR
HW-80798 N64-20670 13-13

SCINTILLATION COUNTER FOR GAMMA DEFECTOSCOPY
FTD-TT-63-696/1 N64-22656 15-13

SCINTILLATION CAMERA WITH LARGE SODIUM IODIDE CRYSTAL FOR OBSERVING POSITRONS AND GAMMA RADIATION EMITTED BY ISOTOPES N64-22858 16-16

WIDE RANGE SCINTILLATION DETECTOR FOR AERIAL RADIOLOGICAL SURVEY
USAELRDL-TR-2397 N64-22965 16-22

SOFT CORPUSCULAR RADIATION IN EQUATORIAL LATITUDES MEASURED WITH SCINTILLATION COUNTER ABOARD COSMOS IV SATELLITE N64-23866 16-23

DETECTION OF SCINTILLATION PHOTONS WITH PHOTODIODES N64-24009 16-23

NUCLEAR PROPERTIES OF RHENIUM USING SCINTILLATION DETECTOR
AD-439807 N64-25838 18-23

DIRECTIONAL SCINTILLATION COUNTER DATA FROM EXPLORER IV SATELLITE
NASA-TR-R-168 N64-27665 19-23

PLASMA ELECTRON DENSITIES, SCINTILLATION COUNTERS, AND WAVE PROPAGATION IN PLASMAS
FTD-MT-64-214 N64-30356 22-24

SCINTILLATION COUNTER FOR DETECTION OF LOW ENERGY ION N64-30359 22-23

CERENKOV SCINTILLATION COUNTER MEASUREMENTS OF INTENSITY AND MODULATION OF LOW RIGIDITY COSMIC RAYS AND GEOMAGNETIC CUTOFF
NASA-RP-309 N64-31570 23-23

LIQUID SCINTILLATION COUNTING APPLIED TO RADIOMETRIC TOOL TESTING
RIA-64-729 N64-32251 23-17

SCINTILLATOR
PULSE HEIGHT MAINTAINING FLEXIBLE LIGHT PIPE COUPLING BETWEEN SCINTILLATOR AND PHOTOMULTIPLIER TUBE
UR-875-18 N64-12388 03-23

SCINTILLATION EFFICIENCY OF SODIUM IODIDE FOR CHARGED PARTICLES N64-12549 04-23

APPLICATION OF SLOP CODE TO UNFOLDING NEUTRON SPECTRA MEASURED WITH SCINTILLATORS N64-12556 04-23

PULSE HEIGHT RESPONSE OF SCINTILLATORS TO HIGH-ENERGY ELECTRONS, POSITRONS, OR PHOTONS N64-12557 04-23

MEASURING GAMMA RADIATION WITH MICRODETECTOR COMPOSED OF PLASTIC SCINTILLATOR & SELENIUM PHOTOCONDUCTIVE CELL
FTD-TT-63-863/1&2 N64-12842 04-23

PHOTOMULTIPLIER AND LIMITS OF RESOLVING TIMES DUE TO SCINTILLATOR CHARACTERISTICS - FAST DELAYED COINCIDENCE TECHNIQUE N64-23615 16-23

REGISTRATION OF INTENSITY OF COSMIC RADIATION BY PLASTIC SCINTILLATORS N64-25931 18-15

SCOUT LAUNCH VEHICLE
SURFACE PRESSURE MEASUREMENT ON SCOUT LAUNCH VEHICLE
NASA-RP-87 N64-11256 02-32

SPHERICAL SATELLITE FOR MEASURING UPPER ATMOSPHERE AIR DENSITY LAUNCHED BY SCOUT VEHICLE N64-11779 03-32

NOSE CAPS INCORPORATING APOLLO HEAT SHIELD MATERIAL FOR USE IN SCOUT PAYLOADS

RAD-TR-63-44 N64-15774 07-30

TRAJECTORY AND LARGE AMPLITUDE MOTION OF SCOUT VEHICLE DURING FOURTH STAGE REENTRY FLIGHT
NASA-TN-D-2309 N64-23373 16-04

STRUCTURAL ANALYSIS OF SCOUT LAUNCHER ADAPTER FOR SANTA RITA PLATFORM N64-26772 18-10

REENTRY HEATING EXPERIMENT TO BE FLOWN BY SCOUT LAUNCH VEHICLE TO TEST ABLATING MATERIALS FOR USE IN APOLLO PROJECT FLIGHT N64-27657 19-02

DYNAMIC RESPONSE OF SANTA RITA LAUNCH PLATFORM AND EFFECT ON SCOUT GUIDANCE SYSTEM ACCURACY N64-28001 20-22

LAUNCH OF IONOSPHERE EXPLORER-A /IE-A/ SATELLITE STRUCTURE, ORBIT, SCOUT LAUNCH VEHICLE, TRACKING AND DATA AQUISITION, AND SCIENTIFIC EXPERIMENTS N64-29601 21-32

SCREEN
PHOSPHOR SCREENS FOR HIGH RESOLUTION DISPLAY DEVICE
AL-TDR-64-94 N64-21105 14-17

PLASMA SHEATH AND SCREENING AROUND STATIONARY CHARGED SPHERE AND FAST-MOVING CHARGED BODY
NASA-CR-56226 N64-23930 16-23

SCREEN AND SPLITTER VANE ARRANGEMENTS FOR PREVENTING FLOW SEPARATION IN WIDE-ANGLE CONICAL DIFFUSERS
TN-AE-24-64 N64-32013 23-03

EFFECTS OF SCREENS AND HONEYCOMB ON SKIN FRICTION VARIATIONS IN LOW SPEED WIND TUNNELS
TN-64-7 N64-33734 24-10

SCREENING TECHNIQUE
SCREENING TECHNIQUES, TRAINING STANDARDS, AND SUCCESS PROBABILITIES FOR AVIATION TRAINEES AND CANDIDATES N64-15105 07-14

SCREENING PROGRAM FOR IMPROVING RELIABILITY OF SPACE ELECTRONIC EQUIPMENT N64-16158 08-09

SNAP-8 MATERIALS SCREENING PROGRAM
NASA-RP-148 N64-17566 09-18

FAILURE MODES AND SCREENING TECHNIQUES FOR SILICON PLANAR TRANSISTORS MANUFACTURED BY DIFFUSION PROCESSES
NASA-CR-56945 N64-27309 19-09

ADAPTIVE SCREENING TECHNIQUES FOR DATA RETRIEVAL SYSTEMS
RADC-TDR-64-206 N64-29968 21-20

SEA
S SEA WATER

SEA DRAGON LAUNCH VEHICLE
SEA DRAGON RECOVERABLE LAUNCH VEHICLE - DESCRIPTION, SYSTEMS OPERATIONAL PROCEDURES AND PROGRAM COSTS
REPT. 8280-15 N64-12116 03-31

SEA WATER
SATELLITE RADIOMETRY - APPLICATION TO MEASUREMENT OF SEA STATE N64-10923 02-21

MAGNESIUM SEA WATER CELL WITH BACTERIA COLONIZED CATHODE
NRL-5998 N64-12825 04-06

GOLD IN SEA WATER
AD-424516 N64-13029 04-18

EFFECT OF WATER TEMPERATURES OVER ARABIAN SEA ON ONSET AND PROPERTIES OF MONSOON CURRENT N64-16309 08-21

INTERACTION BETWEEN LOWER ATMOSPHERE AND SEA SURFACE - HEAT FLUX & SURFACE STRESS
REPT.-63-46 N64-16502 08-21

ELECTRIC PROPERTIES OF SEA-WATER ICE
AFCRL-64-52 N64-18790 11-19

COMPUTER PROGRAM FOR TRAJECTORIES AND PROPERTIES OF SLURRY PARTICLE FALLOUT FROM SEA WATER SURFACE NUCLEAR EXPLOSIONS
USNRDL-TR-724 N64-20861 14-23

EXTRACTION OF OXYGEN FROM SEA WATER BY DIFFUSION THROUGH THIN PLASTIC MEMBRANES
AD-437359 N64-24807 17-16

ROLE OF BACTERIA IN ELECTROCHEMICAL CORROSION OF STEEL IN SEA WATER
FTD-TT-64-393/164 N64-26123 18-18

ELECTROCHEMICAL TECHNIQUES FOR PROTECTION OF MARINE STRUCTURES IN SEA WATER
JPRS-26067 N64-27638 19-07

WATER RECOVERY FROM SEA WATER AND FROM HUMAN URINE
REPT.-3 N64-30696 22-16

AVIATION FUEL SULFUR CONTENT AND SEA WATER INGESTION EFFECT ON HOT GAS CORROSION OF SUPERALLOYS IN HIGH PERFORMANCE ENGINES
REPT.-3686-64R N64-31632 23-18

SEALANT
EVALUATION OF SEALANTS FOR F-111 AIRCRAFT FUEL TANK
FTDM-3125 N64-16636 08-19

ELASTOMER RING SEALS FOR LIQUID ROCKET FUEL AND OXIDIZER SYSTEM
ASD-TDR-63-496 N64-16870 08-19

COMPOSITE FIBER-METAL GASKET FOR SEALING IN FUEL SYSTEMS OF AEROSPACE VEHICLES - SEALANTS
ERR-FW-174 N64-18946 11-17

OIL SEALS FOR RECIPROCATING ENGINE - FRICTION MEASUREMENTS N64-19021 11-17

EVALUATION OF SYNTHETIC ELASTOMER SEALANT FOR B-58 AIRCRAFT FUEL TANKS
FGT-3029 N64-20040 13-19

SEALANTS & ADHESIVES FOR BEARING INSTALLATION IN STEEL AND ALUMINUM HOUSING BORES OF FLIGHT CONTROL SYSTEM
FGT-3082 N64-20044 13-19

TESTING SURFACE SEALANTS FOR F-111 AIRCRAFT FUEL TANKS
FTDM-3169 N64-20058 13-19

EFFECT OF CLOSURE WELD CONFIGURATION ON FATIGUE STRENGTH OF OMEGA SEALS
KAPL-2000-21 N64-21740 15-18

EXPANDABLE STRUCTURE TECHNOLOGY APPLIED TO SEALING CONCEPTS AND SELF-REGULATING PNEUMATIC SYSTEMS N64-23727 16-34

ADHESIVES, SEALS, GASKETS, AND POLYMERIC MATERIALS FOR AEROSPACE APPLICATIONS - BIBLIOGRAPHY
SB-63-77 N64-26823 18-19

THERMOSTABILITY OF SEALANT ELASTOMERS
WAPD-TM-432 N64-27407 19-19

PROCEDURE FOR USING LIQUID-METAL SEAL IN ULTRAHIGH VACUUM SYSTEM N64-28210 20-17

DIELECTRIC TO METAL SEALS AND COMPRESSION BAND WINDOW ASSEMBLIES FOR HIGH POWER MICROWAVE TUBE OUTPUT WINDOW
RADC-TDR-63-393 N64-31153 22-17

SELF-SEALANTS AND SPACE-APPLIED ASSEMBLY SEALANTS FOR AEROSPACE VEHICLES
P-63-11 N64-31232 22-17

SEALING
SA GASKET
TITANIUM HYDRIDE METAL TO CERAMIC SEAL
NATT-228 N64-12091 03-17

CERAMIC TO METAL SEALS FOR HIGH-TEMPERATURE

THERMIONIC CONVERTERS
RTD-TDR-63-4109 N64-12672 04-19

LIQUID OXYGEN ORGANIC SEALANTS FOR USE AT CRYOGENIC TEMPERATURES
NASA-CR-52256 N64-12941 04-19

UNCONVENTIONAL APPROACHES TO PROVIDING DYNAMIC SUPPORT FOR GAS BEARING MOLECULAR PUMP SEAL
ASD-TDR-63-709 N64-13876 05-10

DESIGN OF RELIABLE SEALED NICKEL-CADMIUM CELL
QPR-2 N64-14294 06-06

MATRIX, SEAL, & ELECTROLYTE DEVELOPMENT FOR THERMALLY REGENERATIVE LIQUID METAL FUEL CELL FOR CONVERSION OF HEAT DIRECTLY INTO ELECTRIC ENERGY
EDR-3344 N64-15624 07-06

LIP SEAL BIBLIOGRAPHY N64-15768 07-11

F-111 AIRCRAFT FUEL TANK CHANNEL SEALANTS
FGT-3041 N64-16632 08-19

REACTOR HIGH TEMPERATURE HELIUM SEALS
HW-76008 N64-17297 09-17

SEALED, RECHARGEABLE SILVER-CADMIUM BATTERY CELLS
AD-434061 N64-18908 11-06

HIGH TEMPERATURE ELASTOMERIC AND METALLIC SEALS FOR AIRCRAFT HYDRAULIC SYSTEM N64-19022 11-19

DIELECTRIC-TO-METAL SEALING TECHNIQUES USED WITH OUTPUT WINDOWS FOR HIGH POWER MICROWAVE TUBES
RADC-TDR-63-472 N64-19187 11-17

REFRACTORY METALS, INSULATING MATERIALS, AND CESIUM RESISTANT SEALS FOR THERMIONIC CONVERTER
AD-430112 N64-19245 11-06

ROTATING FLUID RING SEALS FOR HIGH SPEED SHAFTS IN SPACE - ELECTRON BEAM WELDING OF REX 49 STEEL
AD-429211 N64-19779 12-17

SEALED NICKEL-CADMIUM BATTERY CELLS - PERFORMANCE EVALUATION PROGRAM
NASA-CR-53923 N64-19925 12-06

DYNAMIC ZERO LEAKAGE SEAL, WATER SEAL, AND LIQUID METAL SEAL TECHNOLOGY FOR SNAP-8 GENERATOR SYSTEM
AD-432064 N64-21990 15-18

SEALING BETWEEN GIMBALS FOR REDUCED TORQUE AND LEAKAGE OF LOW PRESSURE GAS - TEFLON SEALS
NASA-CR-56645 N64-24125 16-17

STATIC SEALS FOR CRYOGENIC SYSTEMS - BIBLIOGRAPHY N64-25124 17-19

SEAL INTERFACE STUDIES, EXPERIMENTS ON GASKET MATERIALS AND GEOMETRY, AND DESIGN CRITERIA FOR ZERO LEAKAGE CONNECTORS
NASA-CR-56571 N64-27305 19-17

RECOMBINATION REACTIONS, SEPARATOR MATERIALS, AND ADDITIVES FOR SEALED ZINC-SILVER OXIDE BATTERY
QPR- 3 N64-28239 20-06

STRESS ANALYSIS OF CERAMIC TO GLASS OR METAL SEAL
MATT-293 N64-28424 20-17

SEALING PROCESSES FOR GLASS ENCLOSED QUARTZ CRYSTAL UNITS
REPT.-8 N64-29638 21-09

DEVELOPMENT OF LUBRICATING FILM MATERIALS FOR LONG-LIFE CONTACT SEALS USED IN HIGH-SPEED ROTATING SHAFT IN LIQUID POTASSIUM DYNAMIC POWER SYSTEM
AD-449609 N64-32651 23-17

SEAPLANE
CF AIRCRAFT
LONGITUDINAL DECELERATION EFFECT ON LOADS AND MOTIONS OF SEAPLANE LANDING IN WAVES
R-924 N64-12040 03-04

VERTICAL FLOAT STABILIZATION SYSTEM DESIGN, CONSTRUCTION, INSTALLATION, & TESTING FOR SEAPLANE
GD-C-63-200 N64-13122 04-06

SEASONAL VARIATION
HIGH ALTITUDE WIND VELOCITY MEASUREMENTS IN VARIOUS SEASONS
AWS-TR-173 N64-12335 03-21

PATH CIRCUIT ANALYSIS OF SIGNAL TRANSMISSION FOR SEASONAL VARIATION OF GRAPH PLOTS N64-12423 04-12

SYNOPTIC OSCILLATIONS OF HIGH PRESSURE AREAS OVER INDIA DURING TRANSITION SEASON N64-16306 08-21

SEASONAL VARIATION OF IONOSPHERIC DISTURBANCES AT HIGH LATITUDES OF NORTHERN & SOUTHERN HEMISPHERES
NASA-TT-F-8878 N64-23049 16-12

SEASONAL VARIATIONS IN STRATOSPHERIC CIRCULATION PATTERNS N64-24455 17-21

ANTARCTIC STRATOSPHERIC & TROPOSPHERIC SEASONAL TEMPERATURE VARIATIONS N64-24457 17-21

SEASONAL VARIATION OF DENSITY AND TEMPERATURE CAUSED BY SOLAR ACTIVITY IN AURORAL ZONE
NASA-RP-217 N64-24560 17-12

UPPER IONOSPHERE DIURNAL, SEASONAL, AND GEOGRAPHICAL VARIATIONS IN SCALE HEIGHT AND TOTAL ELECTRON NUMBER N64-29723 21-12

SEAT
NET SEAT ACCELERATION CHARACTERISTICS DURING GROUND IMPACT
FDFR-TM-63-25 N64-14623 06-06

HIGH SPEED, LOW ALTITUDE FLIGHT TESTS FOLLOWING TERRAIN, AND SPRING-MOUNTED SEAT TESTS IN FLIGHT
AGARD-442 N64-16662 08-04

ROCKET CATAPULT FOR EJECTION SEAT
AD-440352 N64-21090 14-30

ROCKET ENGINE VALVE POPPET AND METAL-TO-METAL SEAT DESIGN DATA
R-5494 N64-21411 14-17

FIRING MECHANISM FOR ACTUATING PARACHUTES TO STABILIZE PILOT EJECTION SEATS AFTER EJECTION
FTD-TT-61-366/1&2 N64-21564 15-04

HIGH ALTITUDE MAN SEAT STABILIZATION STUDY
CEPE-1681 N64-26348 18-16

SECOND
S NANOSECOND

SECONDARY EMISSION
CF ELECTRON BOMBARDMENT
CF FIELD EMISSION
CYCLOTRON ORBIT - IBM 709 COMPUTER PROGRAM FOR TRACING SECONDARY BEAMS OUT OF CYLINDRICALLY SYMMETRIC MAGNETIC FIELD
UCRL-11044 N64-11584 03-23

NEUTRON PHYSICS - RADIATION SHIELDING, SECONDARY RADIATION, & RADIATION DETECTORS
ORNL-3499, VOL. 2 N64-12531 04-01

SYNCHROCYCLOTRON PROTON BEAM INTENSITY MONITORING FOR ENERGY SPECTRUM MEASUREMENTS OF NUCLEAR SECONDARIES N64-12551 04-23

ENERGY SPECTRA MEASUREMENTS OF NUCLEAR SECONDARIES BY OAK RIDGE ISOCHRONOUS CYCLOTRON N64-12552 04-23

COMPUTER CALCULATION OF HIGH ENERGY SECONDARY ELECTRON EMISSIONS WITH RESPECT TO INTENSITY, ENERGY LOSS, AND ENERGY & EMISSION SPECTRA
AFSWC-TDR-63-50 N64-13774 05-23

SECONDARY ELECTRON CONDUCTION TARGETS FOR CAMERA TUBES - FABRICATION, QUALITY CONTROL, & STABILITY
RTD-TDR-63-4276 N64-14961 06-23

PERFORMANCE CHARACTERISTICS OF SECONDARY EMISSION

ELECTRON TUBES N64-23534 16-09

METHOD OF STUDYING HIGH ENERGY SECONDARY BEAMS IN VACUUM AND IN DIFFUSING MEDIUM
CERN-64-11 N64-23873 16-23

MONTE CARLO STUDY OF SECONDARY NEUTRONS PRODUCED IN PROTON SHIELDING - ALUMINUM, POLYETHYLENE, CARBON, AND IRON SLABS
NASA-CR-58493 N64-28934 20-23

SECONDARY ION EMISSION DURING METAL BOMBARDMENT BY LOW ENERGY IONS
FTD-TT-64-544/1&2&4 N64-30486 22-23

SECURITY
SPACE BIOLOGY - PHYSIOLOGICAL EFFECTS, EXTRA-TERRESTRIAL LIFE, CLOSED ECOLOGICAL SYSTEM, SECURITY, LIFE EFFECTS, AND RADIOBIOLOGY
N64-11855 03-01

MILITARY COMMAND AND CONTROL SYSTEMS PLANNING - NATIONAL SECURITY POLICIES
HI-285-RR, VOL. 2 N64-18252 10-01

SECURITY SAFEGUARDS FOR PROPOSED DIGITAL DATA COMMUNICATIONS NETWORK SYSTEM
RM-3765-PR N64-33372 24-08

SEDIMENT
FORTRAN PROGRAM FOR DESOXYRIBONUCLEIC ACID MOLECULAR WEIGHTS FROM VISCOSITY & CENTRIFUGAL SEDIMENTATION
LA-2964 N64-10318 01-07

BIOLOGY AND STRATIGRAPHY OF BOTTOM SEDIMENTS IN EQUATORIAL PACIFIC
JPRS-23403 N64-15730 07-16

COMPUTER PROGRAM FOR ANALYSIS OF ULTRACENTRIFUGAL ULTRAVIOLET SEDIMENTATION BOUNDARIES - BODPRO
LA-3026 N64-17240 09-20

HYDROCARBON ANALYSIS AS MEANS OF DETECTING LIFE IN SPACE - ABIOTIC, BIOLOGICAL, SEDIMENTAL, AND METEORITIC ALKANES
NASA-CR-58500 N64-29202 21-16

GAUGES USING RADIOACTIVE ISOTOPES TO MEASURE SEDIMENT CONCENTRATION IN WATER AND TO MEASURE ATMOSPHERIC DENSITY
NYO-10220 N64-30772 22-12

PREPARATION, SEDIMENTATION, ELECTROPHORETIC PROPERTIES, AMINO ACID COMPOSITION, IMMUNOLOGY, AND CRYSTALLIZATION OF TRIOSE PHOSPHATE DEHYDROGENASE N64-32048 23-16

SEEBECK COEFFICIENT
SOLID STATE PHYSICS RESEARCH - LASERS, SEEBECK COEFFICIENT, MATERIALS, SPECTROSCOPY, & MAGNETISM AND RESONANCE
ESD-TDR-63-584 N64-16868 08-25

RESISTIVITY AND SEEBECK COEFFICIENTS OF BISMUTH SULFIDE-CUPROUS SULFIDE SYSTEM IN LIQUID STATE
QPR-2 N64-19388 12-09

RESISTIVITY AND SEEBECK COEFFICIENT OF LIQUID INORGANIC SULFIDE SYSTEMS
AD-604984 N64-31305 22-25

SEEBECK EFFECT
CF PELTIER EFFECT
CF THERMOCOUPLE
CF THERMOELECTRICITY
CF THOMSON EFFECT
SEEBECK, PELTIER, AND THOMPSON EFFECTS - THERMOELECTRIC THEORY
NRL-5888 N64-20326 13-23

SYSTEM FOR MEASURING SEEBECK COEFFICIENT AND RESISTIVITY OF WIRES OR BARS
NRL-6044 N64-21674 15-25

RESISTIVITY AND SEEBECK COEFFICIENT MEASUREMENTS ON LIQUID THERMOELECTRIC MATERIALS
REPT.-3. N64-26678 18-25

SEEDING
SA CLOUD SEEDING
PHYLOGENETIC STUDY OF ANAEROBIC SEED GERMINATION, ENVIRONMENT EFFECTS ON GERMINATION, AND SEEDLING GROWTH
NASA-CR-52635 N64-15895 07-16

SEEDING SHOCK WAVES IN ARGON AND HELIUM WITH POTASSIUM AND CESIUM
MT-51 N64-24872 17-24

SEEDING IN UPPER ATMOSPHERE BY FIRING TWO BLACK BRANT I MISSILES
CARDE-TN-1587/64 N64-29528 21-21

OPTIMIZATION OF SEED FRACTION IN PLASMA GENERATOR
N64-30443 22-24

NONEQUILIBRIUM ELECTRICAL CONDUCTIVITY IN ARGON PLASMA SEEDED WITH POTASSIUM VAPOR
AFOSR-64-0848 N64-30480 22-24

SEISMIC WAVE
ABSORPTION OF ENERGY FROM SEISMIC WAVE BY ELECTRODYNAMIC SEISMOGRAPH INSTALLED IN MELLOW SOILS
JPRS-17597 N64-10482 01-12

SEISMIC WAVES GENERATED BY CHEMICAL EXPLOSIONS
AFCRL-63-701 N64-11467 03-12

CLOSE-IN PHENOMENA OF UNDERGROUND EXPLOSIONS - GENERATION OF SEISMIC WAVES
DASA-1382 N64-15598 07-26

DISTORTION EFFECT OF DISCONTINUOUS CURVATURE BY REFRACTED WAVES FROM SEISMIC SOUNDING
JPRS-23759 N64-17245 09-12

DEPENDENCE OF AMPLITUDE OF SEISMIC WAVES ON WEIGHT OF CHARGE - ELASTIC WAVE EXCITATION
FTD-MT-63-36/1&2 N64-18751 11-12

SEISMIC WAVE PRODUCED BY EXPLOSIVE DETONATION IN ROCK CAVITY
BM-RI-6472 N64-22800 14-12

ULTRASONIC MODEL STUDY OF ATTENUATION OF SEISMIC WAVES IN SOLIDS - ELASTIC WAVES
AROD-1740-11 N64-23968 16-23

PROPAGATION OF SEISMIC WAVES IN SOLID SPHERE
AFCRL-64-647 N64-28237 20-12

USE OF BODY AND SURFACE WAVES TO DETERMINE ENERGY IN SEISMIC WAVES N64-30381 22-12

FACTORS AFFECTING RECORDED AMPLITUDES OF SEISMIC WAVES FROM LOCAL EARTHQUAKES N64-30387 22-12

LONGITUDINAL ELASTIC WAVE VELOCITY IN POROUS MEDIA WITH LIQUID SATURATION - CRUDE OIL EXPLORATION
FTD-TT-64-210/1&2 N64-30877 22-12

TORSIONAL VIBRATION OF SPHERE - SEISMIC WAVE ANALOG
AFCRL-63-916 N64-32392 23-12

SEISMOGRAPH
ABSORPTION OF ENERGY FROM SEISMIC WAVE BY ELECTRODYNAMIC SEISMOGRAPH INSTALLED IN MELLOW SOILS
JPRS-17597 N64-10482 01-12

SEISMIC OBSERVATION INTERPRETATION IN COMPLICATED VELOCITY DISTRIBUTION LOCATIONS - GEOLOGICAL SURVEY N64-11499 03-12

ISOLATION OF RAYLEIGH AND LOVE SURFACE WAVES ON SEISMOGRAPHS FOR DETERMINATION OF AZIMUTHS TO EPICENTERS
JPRS-23115 N64-14876 06-12

LOW NOISE TRANSISTORIZED AMPLIFIER FOR SOFT LANDING LUNAR SEISMOGRAPH N64-17559 09-09

CALIBRATION OF SEISMOGRAPHS WITH BRIDGE AND PULSE GENERATING CIRCUITS
AFCRL-63-905 N64-19210 11-15

THEORETICAL SEISMOGRAMS FOR SURFACE MOTION OF HOMOGENEOUS FLUID SPHERE DUE TO IMPULSIVE POINT PRESSURE SOURCE AT SMALL DEPTH
AFCRL-64-183 N64-19650 12-26

SEISMOGRAPHIC STUDY OF SPHEROIDAL FREE PERIODS OF EARTH OSCILLATION
NASA-RP-197 N64-22072 15-12

LUNAR SEISMOLOGY FOR STUDYING COMPOSITION AND INTERNAL STRUCTURE
NASA-CR-56971 N64-25680 17-29

EQUIPMENT FOR HIGH FREQUENCY SEISMOGRAPHIC PROSPECTING
JPRS-25704 N64-27056 19-15

SOURCES AND METHODS OF PROPAGATION OF BACKGROUND NOISE, SELECTION OF OPTIMUM SITES, AND METHODS FOR REDUCING NOISE EFFECT
REPT.-4410-63-X N64-27218 19-15

TRANSMISSION OF SEISMOGRAPHIC SIGNALS OVER WIDE FREQUENCY RANGE - MULTICHANNEL TELEMETRY SYSTEM
N64-28510 20-08

SEISMOGRAPHIC METHODS OF RECORDING EARTHQUAKE MAGNITUDES
AFCRL-64-520 N64-30173 21-12

LIMITATION OF OBSERVATORY MAGNITUDE CORRECTION OF SEISMOGRAPHS FOR DISTANT EARTHQUAKES
N64-30383 22-12

MAGNITUDE DETERMINATION METHODS FOR SEISMOGRAPH SYSTEMS - EVALUATION OF EARTHQUAKE DATA
N64-30385 22-12

RELATIONSHIP BETWEEN MAGNITUDE SCALES FOR SMALL EARTHQUAKES AS ANALYZED FROM WORLDWIDE SEISMOGRAPHIC RECORDINGS
AFTAC-TR-VU-63-4 N64-30386 22-12

AMPLITUDE VARIATIONS IN SEISMOGRAPHIC RECORDINGS OF DISTANT EARTHQUAKES N64-30388 22-12

EFFECTS OF GEOLOGICAL AND REGIONAL FACTORS ON MAGNITUDE VALVES FOR SINGLE EARTHQUAKE
TR-64-1, PT. 1 N64-30389 22-12

SEISMOLOGY
THEORETICAL SEISMOLOGY AND PHYSICS OF EARTH CORE AND MANTLE
NASA-TT-F-123 N64-10078 01-12

SEISMIC DIFFERENCES BETWEEN MONGOLIAN AND SOVIET ALTAY
JPRS-17612 N64-10483 01-12

SEISMOGRAPHIC INSTRUMENTS
JPRS-22038 N64-11268 02-12

SEISMIC MODEL IMPACTER FOR PHOTOELASTIC STUDIES OF PROPAGATING WAVES
AFCRL-63-790 N64-12858 04-15

SURFACE WAVE DIFFRACTION BY SYMMETRIC CRUSTAL DISCONTINUITIES - SEISMOLOGY
AFCRL-63-719 N64-13836 05-12

EARTHQUAKES & SEISMOLOGICAL STUDY OF EARTH CORE
JPRS-23102 N64-14533 06-12

SEISMIC OBSERVATION METHODS
JPRS-23134 N64-14538 06-12

MATHEMATICAL MODEL OF EARTHQUAKE SOURCES TO DELIVER SAME SEISMIC WAVE PATTERNS
AFCRL-64-211 N64-14660 08-12

INTERNATIONAL GEOPHYSICAL YEAR PAPERS ON SEISMOLOGY, TECTONIC MOVEMENTS, AND GRAVITY
AID-T-64-8 N64-16451 08-12

SEISMOLOGY - STANDARDIZATION OF EQUIPMENT AND RECORDING, OBSERVATION STATIONS, DATA ACQUISITION, COMPUTERS, PUBLICATIONS, AND FINANCE
N64-16453 08-12

METHOD FOR DETERMINING EPICENTERS OF DISTANT EARTHQUAKES
JPRS-23770 N64-17499 09-12

VELOCITY OF SHEAR FRACTURE PROPAGATION - SEISMOLOGY N64-18110 10-23

PROBLEMS OF ENGINEERING SEISMOLOGY
JPRS-24051 N64-18963 11-12

IMPROVED EQUIPMENT & TECHNIQUES FOR SEISMOLOGICAL INVESTIGATIONS
FTD-TT-62-269/1&2 N64-19738 12-12

RELATIONSHIP BETWEEN SEISMIC PHENOMENA AND SOLAR ACTIVITY
NASA-TT-F-8692 N64-24909 17-23

CHARACTERISTICS OF PT AND ST SEISMIC PHASES
N64-28048 20-12

SEISMIC DISTINCTIONS OF EARTHQUAKES AND NUCLEAR EXPLOSIONS
AD-442254 N64-28623 20-23

EFFECTS OF LAYERING IN EARTH CRUST ON DILATATIONAL WAVES - SEISMOLOGY
TR-3 N64-29099 21-12

SEISMIC EVENT MAGNITUDE DETERMINATION - FACTORS AFFECTING MAGNITUDE SCALES FOR EARTHQUAKES
REPT.-4410-71-X N64-30378 22-12

HISTORICAL BACKGROUND OF MAGNITUDE SCALES FOR INVESTIGATION OF EARTHQUAKES - SEISMOLOGICAL PHENOMENA N64-30379 22-12

RUSSIAN DEVELOPMENT OF MAGNITUDE AND ENERGY SCALES FOR SEISMOLOGICAL MEASUREMENT OF EARTHQUAKES N64-30380 22-12

WORLDWIDE SEISMOLOGICAL COLLECTION PROGRAM TO DETERMINE EARTHQUAKE MAGNITUDES AT SHORT DISTANCES N64-30382 22-12

SEISMICITY OF EARTH BASED ON SMALLER MAGNITUDE SHOCKS N64-30384 22-12

COMPUTER PROGRAM FOR DETERMINING MAGNITUDES OF SEISMIC EVENTS N64-30390 22-12

HIGH EXPLOSIVE DETONATION FOR CALIBRATION OF EARTHQUAKE AND AFTERSHOCK RECORDING INSTRUMENTS - SEISMOLOGY
AFCRL-64-659 N64-33308 24-12

OPTICAL DIFFRACTION SCANNING FOR FREQUENCY CONTENT AND CHANGES IN VARIABLE-DENSITY SEISMOGRAM
REPT.-4596-17-R N64-33579 24-23

SEISMOMETER
INDIAN OCEAN AREA CRUSTAL STRUCTURE STUDY USING SEISMO-ACOUSTIC RADIOBUOYS
JPRS-18425 N64-10764 02-12

BROADBAND DIGITAL SEISMOMETER EVALUATION
AFCRL-64-33 N64-19209 11-15

LUNAR LANDING SYSTEM DEVELOPED AS PART OF RANGER PROJECT FOR EXTENDED SEISMOMETER EXPERIMENT
NASA-CR-53814 N64-19316 12-32

INSTRUMENTATION, OPERATION, AND PERFORMANCE OF ACTIVE SEISMIC SYSTEMS FOR COMMUNICATION OR SURVEILLANCE
USAELRDL-TR-2446 N64-26585 18-15

VERTICAL AND HORIZONTAL SOLION SEISMOMETERS
QSR-3 N64-29421 21-15

MORPHOLOGY OF DISCONTINUITIES BENEATH USSR FROM DEEP SEISMOMETRIC SOUNDING
JPRS-26802 N64-31312 22-12

SHAKE TABLE EXPERIMENTS ON HORIZONTAL AND VERTICAL

SEISMOMETERS
QSR-3 N64-32950 24-15

SOLID STATE AMPLIFIER FOR SEISMOMETRY
TR-64-73 N64-33837 24-09

SELECTION
S PERSONNEL SELECTION

SELENIDE
SA CADMIUM SELENIDE
SURFACE ENERGY OF OXIDES, SULFIDES, AND SELENIDES
NASA-TT-F-167 N64-11563 03-25

ELECTRICAL & ELECTRONIC PROPERTIES OF CADMIUM SELENIDE
DS-134 N64-14040 05-19

SELENIUM
MEASURING GAMMA RADIATION WITH MICRODETECTOR COMPOSED OF PLASTIC SCINTILLATOR & SELENIUM PHOTOCONDUCTIVE CELL
FTD-TT-63-863/162 N64-12842 04-23

POLYVINYL ALCOHOL, SELENIUM AND TELLURIUM PAPER ELECTROCHROMATOGRAPHY, AND XYLENE SEPARATION
JPRS-25070 N64-22734 16-01

DISTRIBUTION CHARACTERISTICS OF SELENIUM AND TELLURIUM IN PURE PYRITE ORE DEPOSITS N64-28044 20-07

SELENIUM COMPOUND
COORDINATION OF AZIDE, SELENOCYANATE, & CYANATE IONS
AD-428105 N64-14169 05-07

SELENOGRAPHY
SA LUNAR MAP
SA LUNAR SURFACE
SA LUNAR TOPOGRAPHY
CF LUNAR GEOLOGY
SELENOGRAPHIC COORDINATES OF LUNAR CRATERS
NASA-CR-55295 N64-14276 06-29

SELENOGRAPHIC COORDINATES OF CRATERS VIEWED ON LUNAR SURFACE
NASA-CR-55297 N64-14281 06-29

CATALOG OF LUNAR CRATERS WITH SELENOGRAPHIC COORDINATES AND CRATER DIMENSIONS
NASA-CR-55296 N64-14282 06-29

SELENOGRAPHIC COORDINATES OF CRATERS OBSERVED ON SELECTED PORTION OF MOON SURFACE
NASA-CR-55547 N64-15538 07-05

SELENOGRAPHIC COORDINATES, DIAMETER, AND SHAPE OF CRATERS OBSERVED ON SELECTED PORTION OF LUNAR SURFACE
NASA-CR-55536 N64-15900 07-05

AUTOMATIC BALLOON-BORNE SELENODETIC PLATE CAMERA FOR HIGH RESOLUTION PHOTOGRAPHY OF MOON
AFCRL-64-201 N64-17652 09-15

SELENOLOGY
CURRENT VALUES AND INTERRELATIONSHIPS OF ASTRODYNAMIC CONSTANTS - HELIOCENTRIC, GEOCENTRIC, SELENOCENTRIC, AND PLANETOCENTRIC VALUES
AFCRL-63-705 N64-15813 07-29

SELF-ADAPTIVE SYSTEM
CF ADAPTIVE CONTROL
SELF-ADJUSTING SYSTEMS OF AUTOMATIC CONTROL BASED ON SOLUTION OF VARIATIONAL PROBLEMS AND ON INVARIANCE N64-11037 02-20

SELF-LEARNING AS BASIC STEP IN DESIGN OF SELF-ADJUSTING SYSTEMS N64-11039 02-16

POSSIBILITY OF MODELING HUMAN NERVOUS ACTIVITY USING SELF-REGULATORY PROCESSES IN AUTOMATONS - CYBERNETICS
JPRS-22185 N64-11599 03-20

SELF-ADAPTIVE SYSTEM FOR CONTROL OF MILLING MACHINE
FTD-MT-63-64/162 N64-18674 11-17

SELF-ORGANIZING SYSTEMS INVOLVED IN HUMAN LEARNING AND PERFORMANCE - INTERACTION BETWEEN MAN AND ADAPTIVE MACHINE N64-18841 11-16

SELF-ADAPTIVE CONTROL SYSTEM - MATHEMATICAL MODEL
FTD-TT-63-1109/1&2&4 N64-20370 13-06

DAMPING MEASUREMENTS USING SELF-ADAPTIVE SYSTEM
FTD-TT-64-41/1&2 N64-21665 15-09

SYNTHESIZING BLOCK DIAGRAM FOR SELF-ADJUSTING CONTROL SYSTEMS FOR TURBOJET ENGINES WITH AFTERBURNERS
FTD-TT-62-1655/1&2&4 N64-23287 16-06

CONSTRUCTING SELF-ADJUSTING SYSTEM N64-23485 16-06

PERTURBATION OF SELF-ADAPTIVE CONTROL SYSTEM N64-23486 16-06

SELF ADJUSTING SYSTEM WITH PATTERN N64-24700 17-16

SELF-TUNING ANTENNA TO PREVENT SIGNAL LOSS DUE TO SEVERE ENVIRONMENT DURING MISSILE FLIGHT
RG-TR-64-9 N64-29302 21-08

MICROELECTRONIC SYSTEMS - TRAINABLE SELF-ADAPTIVE SYSTEMS, DEVICES, SEMICONDUCTOR FABRICATION, AND HOT ELECTRONS IN METAL FILMS
SU-SEL-64-037 N64-29746 21-09

PROCESS IDENTIFICATION, SYNTHESIS, AND SELF-ADAPTIVE CONTROL OF ADVANCED AEROSPACE VEHICLES
ASD-TDR-63-854 N64-29973 21-06

SELF-ALIGNING BEARING MOUNTINGS FOR OPERATION IN SPACE ENVIRONMENT
QPR-3 N64-31290 22-17

SELF-CONTAINED CONTROL SYSTEMS OF BALLISTIC MISSILES
FTD-MT-64-300 N64-32242 23-06

APPLICATION OF SELF-ADAPTIVE CONTROL TECHNIQUES TO FLEXIBLE SUPERSONIC TRANSPORT
CHL-IH-1696-F-2 N64-32285 23-06

SELF-ADAPTIVE CONTROL TECHNIQUES APPLICATION TO FLEXIBLE SUPERSONIC TRANSPORT
CAL-IH-1696-F-3 N64-32323 23-06

SELF-ALIGNING BEARING MOUNTINGS FOR AEROSPACE VEHICLE
QPR-1 N64-32360 23-17

SELF-CONSISTENT FIELD /SCF/
SELF-CONSISTENT FIELD /SCF/ PROGRAMS IN MOLECULAR PHYSICS
AD-423022 N64-13129 04-23

ANALYSIS OF MULTIREFLECTOR OPTICAL RESONATORS USING GEOMETRICAL OPTICS AND SELF-CONSISTENT FIELD TECHNIQUES
AFCRL-64-161 N64-20087 13-25

CORRELATION BETWEEN PAIRS OF ELECTRONS AS REFINEMENT OF HARTREE-FOCK APPROXIMATION - SPIN HAMILTONIAN AND SELF-CONSISTENT FIELD THEORY
AD-431985 N64-21543 15-23

CONFIGURATION INTERACTION IN CARBON ATOM - ONE-ELECTRON WAVE FUNCTIONS COMPUTED BY METHOD OF SELF-CONSISTENT FIELD WITHOUT EXCHANGE
T-R-404 N64-27798 19-23

SELF CONSISTENT FIELD CALCULATIONS OF GROUND, IONIZED, AND EXCITED STATES OF NITROGEN AND OXYGEN
NASA-CR-58343 N64-28990 20-23

ACCURATE ANALYTICAL SELF-CONSISTENT FIELD /SCF/ FUNCTIONS FOR NEUTRAL AND IONIZED STATES OF OXYGEN AND NITROGEN ATOMS N64-30308 22-23

ATOMIC SELF-CONSISTENT FIELD CALCULATIONS BY EXPANSION METHOD - COMPUTER PROGRAM N64-30311 22-23

SELF-CONSISTENT FIELD CALCULATIONS BY EXPANSION METHOD FOR GROUND STATES OF NEUTRAL AND SINGLY CHARGED MOLYBDENUM ATOMS N64-30312 22-23

ONE-CENTER SELF-CONSISTENT FIELD MOLECULAR ORBITAL WAVE FUNCTIONS FOR GROUND STATES OF HYDROGEN FLUORIDE, METHANE, AND SILANE N64-30315 22-23

ONE-CENTER SELF-CONSISTENT FIELD MOLECULAR ORBITAL WAVE FUNCTIONS FOR GROUND STATES OF AMMONIA, AMMONIUM ION, PHOSPHINE, AND PHOSPHONIUM ION N64-30316 22-23

ONE-CENTER SELF-CONSISTENT FIELD MOLECULAR ORBITAL WAVE FUNCTIONS FOR GROUND STATES OF WATER, HYDROGEN SULFIDE, AND HYDROGEN CHLORIDE MOLECULES N64-30317 22-23

VECTOR COUPLING COEFFICIENTS FOR ATOMIC SELF-CONSISTENT FIELD CALCULATIONS N64-30318 22-23

ELECTRONIC STRUCTURE OF DIATOMIC MOLECULES USING HOMONUCLEAR AND HETERONUCLEAR DIATOMIC SELF-CONSISTENT FIELD /SCF/ PROGRAMS
QSR-20 N64-32554 23-23

SELF-LUMINOUS BODY
CF ELECTROLUMINESCENCE
CF FLUORESCENCE
CF LUMINESCENCE
SURFACE TEMPERATURE MEASUREMENTS OF SELF-LUMINOUS BODIES AND OTHER BRIGHTNESS PARAMETERS USING COLOR DENSITOMETRY N64-15464 07-23

SELF-MANEUVERING UNIT
CF MANEUVER
KINETIC ENERGY OF SYSTEMS OF SOLID LINKED BODIES - SELF-MANEUVERING UNITS N64-23068 16-23

SELF-PROPELLED VEHICLE
TUBE TRANSPORTATION SYSTEM FOR SELF-PROPELLED VEHICLES AT SUPERSONIC SPEEDS
TR-AE-6406 N64-30401 22-02

APPROXIMATE ANALYSIS OF SELF-PROPELLED VEHICLE IN TUBE WITH VARIOUS TUBE-END CONDITIONS TO DETERMINE INDUCED FLOW VELOCITIES
TR-AE-6204 N64-30402 22-02

FLOW IN WAKE OF SELF-PROPELLED VEHICLE IN INFINITE TUBE - EFFECTS OF COMPRESSIBILITY, FRICTION, AND HEAT TRANSFER N64-30408 22-02

SELF-REPAIRING SYSTEM
NONREDUNDANT SELF-REPAIRING ELECTRONIC CIRCUITRY USING NATURAL BEHAVIOR OF CIRCUIT MATERIAL
RADC-TDR-63-175 N64-12207 03-09

QUANTITY PRODUCTION OF METALIZED-TEFLON CAPACITORS WITH SELF-REPAIRING CHARACTERISTICS FOR EXTREME-SERVICE APPLICATION
PB-181-537 N64-13319 04-09

SELF-REPAIR TECHNIQUES FOR FAILURE-FREE SYSTEMS
NASA-CR-55267 N64-13916 05-20

INVESTIGATION AND ANALYSIS OF CIRCUIT COMPLEXES FOR SELF-REPAIRING SYSTEM OF COMPUTER
AFCRL-63-582 N64-21144 14-20

SHOCK WAVE AND METEORITIC DAMAGE CONTROL IN SELF-SEALING STRUCTURES OF SPACE VEHICLES
NASA-CR-120 N64-32434 23-34

SEMANTICS
INFORMATION THEORY - TECHNIQUE FOR ANALYSIS OF SEMANTIC AMBIGUITIES
EUR-193.F N64-11651 03-01

SYNTACTIC AND SEMANTIC COMPONENTS OF LINGUISTIC DESCRIPTION OF NATURAL LANGUAGE
NASA-CR-58224 N64-28937 20-08

SEMICIRCULAR CANAL
FREQUENCY RESPONSE OF HUMAN SEMICIRCULAR CANALS TO ANGULAR ACCELERATION USING NYSTAGMUS TRANSITION TECHNIQUE
NASA-CR-55624 N64-15540 07-16

IDENTIFICATION OF RUDIMENTARY SENSORY ORGAN AT JUNCTION OF INFERIOR UTRICULAR SINUS AND SEMICIRCULAR CANAL IN MAN AND OTHER MAMMALS - PHYSIOLOGY
NASA-CR-59374 N64-33906 24-16

SEMICONDUCTOR
SA LAUE DIFFRACTION
SA P-I-N DIODE
CF INTERMETALLICS
CF JUNCTION TRANSISTOR
ELECTROPHYSICAL AND SEMICONDUCTOR PROPERTIES OF CONJUGATED BOND POLYMERS - SCHIFF BASES
JPRS-21573 N64-10116 01-07

BIBLIOGRAPHY ON EPITAXIAL GROWTH OF SEMICONDUCTOR MATERIALS
LS-BIB-63-3 N64-10622 01-09

ELECTROMAGNETIC WAVE SCATTERING AND SUPER-HIGH VACUUM FROM SEMICONDUCTORS
JPRS-17532 N64-11001 02-01

KIRCHOFF APPROXIMATION FOR ELECTROMAGNETIC WAVE SCATTERING ON UNEVEN SURFACES OF SEMICONDUCTORS N64-11002 02-08

SEMICONDUCTOR THIN FILMS - ANNEALING GALLIUM ARSENIDE
AD-423328 N64-11028 02-25

CHEMICAL & ELECTROLYTIC POLISHES & DISLOCATION ETCHES FOR SEMICONDUCTORS
NOLTR-63-156 N64-11174 02-07

PHOTOCONDUCTIVE AND OPTICAL PROPERTIES OF SEMICONDUCTORS N64-12173 03-25

LUMINESCENT JUNCTIONS IN WIDE-GAP SEMICONDUCTOR
AFCRL-63-389 N64-12312 03-25

MECHANICAL POLISHING TECHNIQUE FOR SEMICONDUCTOR WAFERS
TR-1180 N64-12323 03-17

FAILURE MECHANISMS IN SILICON SEMICONDUCTORS
RADC-TDR-63-443 N64-12590 04-25

GROWTH OF SINGLE CRYSTAL GALLIUM PHOSPHIDE FOR SEMICONDUCTORS
AD-424770 N64-13079 04-15

LOW ENERGY ELECTRON DIFFRACTION APPARATUS FOR STUDYING SURFACE & STRUCTURE OF SINGLE CRYSTAL METALS & SEMICONDUCTORS
ARL-63-197 N64-13636 05-25

SEMICONDUCTOR DEVICES - DIODE MATERIALS STUDIES
AFCRL-63-552/A/ N64-13747 05-25

SLOW & FAST SURFACE STATES IN SEMICONDUCTORS OF GERMANIUM AND SILICON
RADC-TDR-63-464 N64-13784 05-25

TECHNIQUES FOR VACUUM DEPOSITING SINGLE CRYSTAL SEMICONDUCTOR FILMS OF GERMANIUM OR SILICON ON INSULATING SUBSTRATES
AD-427338 N64-13969 05-25

CHEMICAL BEHAVIOR OF SEMICONDUCTORS - ETCHING CHARACTERISTICS
AD-401398 N64-14022 05-25

SEMICONDUCTOR TECHNOLOGY & MICROELECTRONICS
JPRS-22993 N64-14073 05-09

ELECTRONIC MEASUREMENT OF TRANSIENT EFFECTS OF ELECTRON RADIATION ON SEMICONDUCTORS
QPR-1 N64-14504 06-09

FORMULAS FOR CALCULATING FARADAY ROTATION IN SEMICONDUCTORS
AERE-R-4341 N64-15395 07-25

PIEZORESISTIVE CHARACTERISTICS OF SOME ORGANIC SEMICONDUCTING POLYMERS
AD-403361 N64-15936 07-25

IMPURITY CONDUCTION IN SEMICONDUCTORS

NIJS-R-419 N64-15962 07-25

INFRARED TRANSMISSION AND REFLECTION MEASUREMENTS OF SEMICONDUCTING MAGNESIUM STANNIDE SINGLE CRYSTALS OF VARYING IMPURITY CONCENTRATIONS
AFCRL-63-534 N64-16091 07-25

MECHANISM OF RECOMBINATION IN SEMICONDUCTORS
FTD-TT-63-507/1&2 N64-16425 08-25

SEMICONDUCTING OXIDE GLASSES
NASA-CR-53199 N64-17587 09-23

RADIATION DAMAGE IN SEMICONDUCTORS
AFCRL-63-578 N64-18126 10-25

RADIATION ENHANCED DIFFUSION IN SEMICONDUCTOR MATERIALS N64-18127 10-25

ELECTRIC CHARGE DEFECT MOBILITY IN ELECTRIC FIELD OF SEMICONDUCTOR P-N JUNCTION N64-18129 10-25

ACTIVE VOLUME INCREASE OF LITHIUM DRIFTED GERMANIUM SEMICONDUCTOR DETECTOR
NASA-CR-53389 N64-18291 10-23

RELIABILITY OF SEMICONDUCTOR THIN FILMS & DEVICES
RADC-TDR-64-35 N64-18592 11-25

AUGER EFFECTS & RECOMBINATION OF ELECTRONS & HOLES IN SEMICONDUCTORS
AFCRL-63-946 N64-18593 11-25

ELECTRO-OPTICS - ELECTRONIC PULSE AMPLIFIER & SEMICONDUCTOR INVESTIGATION TO EXTEND APPLICABILITY OF INTEGRATED CIRCUITS
AD-434170 N64-18844 11-09

PROTON DAMAGES IN SILICON SEMICONDUCTOR CRYSTAL STRUCTURE
NASA-CR-40 N64-18952 11-25

SEMICONDUCTOR SOLIDS USED AS PHOTOCATALYSTS IN FORMATION OF ENDOTHERMIC COMPOUNDS
AFCRL-64-120 N64-19145 11-25

INJECTION ELECTROLUMINESCENT EMISSION FROM ZINC SELENIDE AND ZINC TELLURIDE CRYSTALS IN SEMICONDUCTORS
AFCRL-64-189 N64-19628 12-25

MECHANIZED PRODUCTION METHOD FOR SEMICONDUCTORS - TRANSISTOR FABRICATION TECHNIQUES
QPR-24 N64-20143 13-17

PHYSICS & ELECTRONICS RESEARCH - SEMICONDUCTORS, INFRARED RADIATION, COMPUTER DESIGN, MASERS, LASERS, RADIO ASTRONOMY, & RADIO METEOROLOGY
ONRL-9-64 N64-20308 13-01

PRODUCTION OF OPTICAL MASER ACTION BY ACTIVATED GASES, FLUORESCENT MATERIALS AND SEMICONDUCTORS N64-20658 13-25

TEMPERATURE SENSITIVITY OF SEMICONDUCTOR FAILURE RATES N64-20970 14-20

CORRELATION OF BURST NOISE AND PARAMETER DRIFT IN SEMICONDUCTORS FOR FAILURE PREDICTION N64-20983 14-09

ELECTRICAL AND MECHANICAL FAILURE ANALYSIS FOR SEMICONDUCTOR RELIABILITY N64-20985 14-09

THERMOELECTRIC ENERGY CONVERSION AND COMPOUND SEMICONDUCTOR MATERIALS FOR CONVERTER APPLICATIONS
AD-601039 N64-21169 14-25

SEMICONDUCTOR MATERIALS - GALLIUM ARSENIDE AND GALLIUM ARSENIDE-GALLIUM PHOSPHIDE DIODE ARRAYS AND GROWTH OF BORON PHOSPHIDE CRYSTALS
AD-433725 N64-22056 15-25

DEPOSITION OF SEMICONDUCTOR THIN FILMS FOR ACTIVE ELEMENTS IN MICROELECTRONIC DEVICES
Q445-7 N64-22530 15-25

DIRECT INTERBAND TRANSITIONS IN SEMICONDUCTING CRYSTALS
ML-1131 N64-22897 16-25

RADIATION DAMAGE TO SEMICONDUCTORS BY HIGH ENERGY ELECTRON AND PROTON RADIATION
NASA-CR-62 N64-23236 16-09

RELAXATION PROCESSES IN DIELECTRICS AND SEMICONDUCTORS
FTD-TT-63-3/1&2&4 N64-23412 16-09

SILICON SEMICONDUCTOR FAILURE MECHANISMS
RADC-TDR-64-153 N64-23960 16-09

ORGANIC SEMICONDUCTOR MATERIALS
AFCRL-64-389 N64-23973 16-09

MICROWAVE REGION ACOUSTIC WAVE AMPLIFICATION IN PIEZOELECTRIC SEMICONDUCTORS
ML-1148 N64-24224 16-25

INTERACTION BETWEEN MICROWAVES AND PLASMAS IN GAS DISCHARGES AND SEMICONDUCTORS
RADC-TDR-64-93 N64-24668 17-09

MAGNETOPLASMA RESONANCE IN SEMICONDUCTORS & METALS N64-24673 17-25

SEMICONDUCTOR CHARACTERISTICS OF CADMIUM SELENIDE PHOTOCONDUCTIVE CELLS IN COPLANAR AND SANDWICH CONSTRUCTIONS
MTER-2 N64-24899 17-25

OPTICAL PROPERTIES OF THIN FILMS OF METALS, SEMICONDUCTORS, AND DIELECTRICS
SAR-8 N64-25320 17-25

RADIATION EFFECTS IN SEMICONDUCTORS
NASA-TN-D-2364 N64-25871 18-25

APPARATUS FOR EVAPORATING COMPOUND SEMICONDUCTORS
NAVWEPS-8190 N64-26012 18-09

IMPURITY DOPING OF FLASH EVAPORATED EPITAXIAL FILMS OF SEMICONDUCTORS
A049-AFCRL N64-26225 18-25

LAND HYDROGRAPHY, SOIL CHARACTERISTICS, SEMICONDUCTOR MATERIALS, AND FLUID MECHANICS
JPRS-25016 N64-26410 18-23

RELATIONSHIP BETWEEN SURFACE ELECTRICAL PROPERTIES OF SEMICONDUCTOR CATALYST AND ITS CATALYTIC ACTIVITY
TR-1 N64-26489 18-25

SEMICONDUCTOR SWITCHING AND LIMITING USING 3 DB SHORT SLOT /HYBRID/ COUPLERS
USAELRDL-TR-2409 N64-26557 18-09

AMBIPOLAR DIFFUSION CONTRIBUTION TO SEMICONDUCTOR THERMAL CONDUCTIVITY
NASA-RP-243 N64-26573 18-25

MICROWAVE INTERACTIONS IN DISTRIBUTED SEMICONDUCTOR STRUCTURES & SOLID STATE ULTRASONIC AMPLIFIERS AND TRANSDUCERS
QR-4 N64-26850 18-25

RECOMBINATION AND FLUCTUATION THEORY IN SEMICONDUCTORS
AFCRL-64-564 N64-26898 18-25

SURFACE STATES OF GALLIUM ARSENIDE SEMICONDUCTORS
RADC-TDR-64-168 N64-26919 18-25

PLASMA WAVE GENERATION IN SEMICONDUCTOR AND ELECTROMAGNETIC PROPAGATION IN WAVEGUIDE BY GAS DISCHARGE PLASMA
FTD-TT-64-292/1&2&4 N64-27002 19-24

GENERATION OF PLASMA WAVES BY ELECTRON FLOW IN SEMICONDUCTOR N64-27003 19-24

SEMICONDUCTOR RESEARCH - ELECTRICAL AND OPTICAL PROPERTIES, IRRADIATION EFFECTS, & LOW TEMPERATURE STUDIES
AD-439233 N64-27344 19-25

MICROWAVE RESEARCH - PIEZOELECTRIC SEMICONDUCTORS,

OPTICAL MASERS, MICROWAVE PROPAGATION, LIGHT WAVE DIFFRACTION, AND LASER BEAMS
ML-1192 N64-27737 19-25

ENERGY LEVELS OF TRANSITION METAL IMPURITIES IN SEMICONDUCTORS N64-28667 20-25

OPTICAL SECOND HARMONIC GENERATION IN SEMICONDUCTOR ALLOYS
TR-0556-8 N64-28790 20-25

EFFECT OF SURFACE STATES AND PHOTOVOLTAIC EFFECT ON OXIDE-SEMICONDUCTOR INTERFACE N64-29165 21-06

FIGURES-OF-MERIT FOR PHOTODEVICES, OPTICAL MIXERS USING PHOTOELECTRIC EMISSION, OPTICAL MIXING IN SEMICONDUCTORS, & MIXING IN INSULATING CRYSTALS
AFCRL-63-508 N64-29279 21-09

PURIFICATION OF VACUUM EVAPORATED THIN FILMS OF METALS AND SEMICONDUCTORS BY SIMULTANEOUS ELECTROMAGNETIC LEVITATION AND INDUCTION HEATING
SAR-9 N64-29398 21-23

TRYPAFLAVINE SEMICONDUCTOR DYE
T-R-403 N64-29414 21-07

SOLID STATE MICROWAVE GENERATORS - NEGATIVE RESISTANCE AND CURRENT GAIN
REPT.-5 N64-29419 21-09

FAR INFRARED MAGNETO-OPTICAL STUDIES OF SEMICONDUCTORS N64-29482 21-23

MICROELECTRONIC SYSTEMS - TRAINABLE SELF-ADAPTIVE SYSTEMS, DEVICES, SEMICONDUCTOR FABRICATION, AND HOT ELECTRONS IN METAL FILMS
SU-SEL-64-037 N64-29748 21-09

IMPROVEMENT IN ELECTRICAL STRENGTH AND QUALITY OF ELECTRIC INSULATION IN DIELECTRICS AND SEMICONDUCTORS
FTD-TT-64-546/1 N64-29987 21-25

MEASUREMENT OF PHOTOELECTRIC PROPERTIES OF SEMICONDUCTORS WITHOUT CONTACT BETWEEN ELECTRODE AND SAMPLE SURFACE
FTD-TT-64-155/1&2 N64-30105 21-25

SEMICONDUCTOR SURFACE CONTROL AND STABILIZATION
AFCRL-64-581 N64-30123 21-25

FIELD AND CURRENT DISTRIBUTIONS IN CADMIUM SULFIDE SEMICONDUCTORS AND PHOTOCONDUCTORS
PR-1 N64-30771 22-25

ELECTRICAL AND THERMAL PROPERTIES AND APPLICATIONS OF OXIDE SEMICONDUCTOR MATERIALS
REPT.-10 N64-31131 22-25

PREPARATION AND ELECTROLUMINESCENCE OF ZINC AND CADMIUM SEMICONDUCTOR MATERIALS FOR LASERS
AD-442258 N64-31642 23-25

COMPENSATION LIMITED CONDUCTIVITY IN CADMIUM AND ZINC BINARY SEMICONDUCTORS N64-31643 23-25

AUGER RECOMBINATIONS WITH PARTICIPATION OF TRAPS IN GERMANIUM AND OTHER SEMICONDUCTORS
AFCRL-64-747 N64-31739 23-25

TRANSPORT PROPERTIES OF SEMICONDUCTOR COMPOUNDS FOR APPLICATIONS TO THERMOELECTRICITY
TRECOM-TR-64-35 N64-31905 23-25

ADSORPTIVITY CHANGE OF SEMICONDUCTOR SURFACE INFLUENCED BY ILLUMINATION
FTD-MT-64-205 N64-32611 23-25

BIBLIOGRAPHY ON MAGNETORESISTANCE AND HALL EFFECT IN METALS, SEMICONDUCTORS, AND ALLOYS
NAVWEPS-8191 N64-33240 24-25

SEMICONDUCTOR DEVICE
SA DIFFERENTIAL AMPLIFIER
SA ELECTRON TUBE
CF SOLID STATE DEVICE
TEACHING MACHINES WITH SEMICONDUCTOR DEVICES AND

RELAYS DESIGNED FOR SELF-EXAMINATION, TESTING AND COUNSELLING
JPRS-19506 N64-10822 02-01

SURFACE PROTECTION FOR SILICON SEMICONDUCTOR DEVICES
AFCRL-63-536 N64-13640 05-17

ACCELERATED LIFE DETECTOR FOR RELIABILITY TESTING OF SEMICONDUCTOR DEVICES
USAELRDL-TR-2362 N64-13829 05-09

SEMICONDUCTOR DEVICE - PHONON DRAG STUDY OF SCATTERING IN SILICON
AD-432700 N64-17661 09-25

RADIATION RESISTANT DIGITAL CIRCUITS USING SEMICONDUCTOR DEVICES
SM-45766 N64-18097 10-09

SEMICONDUCTOR DEVICES & PREPARATION OF LASER MATERIALS
AFCRL-64-135 N64-18904 11-25

SINGLE CRYSTAL & SEMICONDUCTOR DEVICES AND RADIATION DAMAGE EFFECTS OF SOLAR CELLS N64-19384 12-06

MECHANIZED PRODUCTION METHOD FOR SEMICONDUCTORS - TRANSISTOR FABRICATION TECHNIQUES
QPR-24 N64-20143 13-17

BULK RELIABILITY EFFECTS IN SEMICONDUCTOR DEVICE - CURRENT CROWDING IN TRANSISTORS
USAELRDL-TR-2333 N64-20334 13-09

RADIATION DAMAGE TO SEMICONDUCTOR DEVICES BY HIGH ENERGY ELECTRON AND PROTON RADIATION
NASA-CR-56138 N64-20726 13-25

SEMICONDUCTOR DEVICE DEGRADATION BY SOLID STATE THERMAL DIFFUSION N64-20974 14-25

X-RAY RADIOGRAPHY FOR OBSERVATION OF FAILURE MODES IN SEMICONDUCTOR DEVICES N64-20998 14-15

SEMICONDUCTOR TRANSDUCERS - MECHANISM, PROPERTIES, AND APPLICATION
ARL-20 N64-21124 14-15

GROWING SCREW-SHAPED WAVES OF ELECTRON-HOLE DENSITY IN SEMICONDUCTOR BAR SUBJECTED TO PARALLEL ELECTRIC AND MAGNETIC FIELDS
ESD-TDR-63-587 N64-21397 14-24

MICROMINIATURE SEMICONDUCTOR CIRCUITS FOR AIRBORNE EQUIPMENT, COMPUTER CIRCUITRY, & PORTABLE INSTRUMENTS N64-21401 14-09

C- AND KU-BAND SEMICONDUCTOR DIODE LIMITER DEVICES
AD-431966 N64-21551 15-09

SEMICONDUCTOR DEVICE - DIRECT CURRENT TRANSFORMER WITH INDUCTIVE FEEDBACK
FTD-TT-62-117/1&264 N64-21650 15-09

ELECTRON AND HOLE INJECTION BY METAL PROBES INTO DEPLETION REGION OF SEMICONDUCTOR DIODE N64-21769 15-25

MANUFACTURE OF MICROMINIATURE SEMICONDUCTOR SOLID STATE CIRCUITS N64-21829 15-09

ITERATIVE PARAMETRIC AMPLIFICATION WITH SEMICONDUCTOR REACTANCE DIODES
RSIC-146 N64-22914 16-09

BATTERY CHARGE CONTROL USING SEMICONDUCTOR DEVICES
AD-435833 N64-23916 16-09

PHOTOELECTRIC EFFECTS AT SEMICONDUCTOR ELECTRODES
AFCRL-64-362 N64-24136 16-09

SEMICONDUCTOR DIODE PARAMETRIC AMPLIFIER TO ENHANCE DYNAMIC RANGE OF RECEIVING SYSTEMS
ADC-TDR-64-83 N64-24193 16-09

PASSIVATION OF SEMICONDUCTOR PLANAR SILICON

DEVICES
IR-7-879/XII/ N64-24388 17-25

APPARATUS FOR MEASURING PULSE CHARACTERISTICS OF SEMICONDUCTOR DIODES N64-24525 17-09

TRANSFORMER-TYPE PULSED FREQUENCY METER WITH FEEDBACK LOOP AND SEMICONDUCTOR TRIODE N64-24539 17-09

SEMICONDUCTOR SAWTOOTH VOLTAGE STANDBY OSCILLATOR N64-24555 17-09

QUALITY CONTROL INSPECTION OF SILICON PLANAR EPITAXIAL SEMICONDUCTOR DEVICE
MPQRA 101A N64-25403 17-17

C- AND K-BAND SEMICONDUCTOR TRANSMIT-RECEIVE TUBE
REPT.-2 N64-25523 17-09

INDIUM ANTIMONIDE THIN FILM PREPARATION FOR SEMICONDUCTOR DEVICES
AFCRL-64-278 N64-25976 18-25

SEMICONDUCTOR DIODE PARAMETRIC AMPLIFIERS AND CONVERTERS
NRL-6024 N64-25979 18-09

SEMICONDUCTOR JUNCTION MIXER DIODES FOR COUNTERMEASURES EQUIPMENT
M-102 N64-26323 18-09

MINIMUM POWER DENSITY AND FREQUENCY RESPONSE RATIO FOR SEMICONDUCTOR TRIODE AMPLIFIER N64-26440 18-09

METAL OXIDE SEMICONDUCTOR FIELD EFFECT DEVICES FOR MICROPOWER LOGIC CIRCUITRY N64-26442 18-09

OXIDATION, ETCHING, AND DIFFUSION PROCESSES FOR FUNCTIONAL ELECTRONIC BLOCKS AND OTHER PLANAR SEMICONDUCTOR DEVICES
ASD-TDR-8-133-3 N64-26502 18-17

SEMICONDUCTOR COMMUTATOR FOR TELEMETRY SYSTEMS
TR-1149 N64-26651 18-09

RADIATION DAMAGE IN SEMICONDUCTOR DEVICES
BSR-847 N64-26655 18-25

OPTICAL PROPERTIES OF SEMICONDUCTING CRYSTALS UNDER VARIOUS TEMPERATURE, PRESSURE, MAGNETIC, AND ELECTRIC CONDITIONS
ARL-64-98 N64-27425 19-25

EVALUATION OF THERMOCOMPRESSION BONDING PROCESS FOR INTRACONNECTION OF ACTIVE SEMICONDUCTOR DICE N64-27659 19-25

ELECTRON-PHONON INTERACTIONS IN CRYSTALS FOR USE AS SEMICONDUCTOR DEVICES
REPT.-3 N64-27770 19-25

QUALITY CONTROL MANUAL FOR SILICON DIFFUSED MESA SEMICONDUCTOR DEVICES
MP-QRA-102 N64-27778 19-17

SILICON EPITAXIAL FILMS FOR MICROELECTRONICS AND LARGE AREA SEMICONDUCTOR DEVICES
QR-8 N64-27928 20-25

DEFECT CHEMISTRY OF COMPOUNDS WITH COMPARISON OF ELECTRICAL BEHAVIOR AFTER ELECTRON BOMBARDMENT
AFCRL-64-467 N64-28579 20-25

PORTABLE BATTERY POWERED TEST EQUIPMENT FOR MEASUREMENT OF ELECTRONIC PROPERTIES OF SEMICONDUCTOR DEVICES
REPT.-3 N64-28740 20-09

MULTICHANNEL SEMICONDUCTOR VOLTAGE-TO-CODE CONVERTER WITH DIGIT-BY-DIGIT CODING N64-29139 21-15

EPITAXIAL DEPOSITION FABRICATION OF SEMICONDUCTOR DIODES FOR ELECTRONIC TUNING
R-182.1 N64-29390 21-25

RELIABILITY OF THIN FILM SEMICONDUCTOR DEVICES
RADC-TDR-64-197 N64-29967 21-25

PHOTOENGRAVING TECHNIQUES USED IN SILICON INTEGRATED DEVICE TECHNOLOGY
ASD-TDR-63-316, VOL. III N64-29984 21-25

TEN NANOSECOND SEMICONDUCTOR SWITCH
NASA-CR-58794 N64-30522 22-09

RESEARCH IN ATOMIC, PLASMA, AND SURFACE PHYSICS, ELECTRIC VACUUM GYROSCOPE, COMPUTER STATISTICS, IONIZATION GAUGES, AND SEMICONDUCTORS
AD-420532 N64-31244 22-23

PULSE WIDTH MODULATOR FOR SILICON INTEGRATED CIRCUITS
GE/EE/63-27 N64-31275 22-09

MICROELECTRONIC SEMICONDUCTOR CIRCUIT WITH SILICON CONTROLLED RECTIFIER N64-31501 23-09

SEMICONDUCTOR DEVICE STUDIES - COPPER-DOPED AND SILVER-DOPED CADMIUM SULFIDE CRYSTALS, IMPURITY EFFECT ON ZINC SELENIDE ELECTRIC PROPERTIES, AND JUNCTION LASER DESIGN
AFCRL-64-702 N64-31819 23-25

CONTINUOUS FABRICATION PROCESSES FOR INTEGRATED CIRCUITS AND PLANAR SEMICONDUCTOR DEVICES - WAFER CLEANING, OXIDATION, DIFFUSION, PHOTOMASKING, AND MEASUREMENT AND CONTROL SYSTEMS
ASD-TDR-8-133-2 N64-32191 23-17

ADVANCED ELECTRON DEVICE TECHNOLOGY
SR-78 N64-32508 23-09

BETA SILICON CARBIDE FOR SEMICONDUCTORS - CRYSTAL GROWTH AND PURIFICATION FROM NITROGEN
REPT.-12 N64-32973 24-25

SEMICONDUCTOR PHASE SHIFTING DEVICES IN L- AND S-BANDS
AD-601003 N64-33003 24-09

SEMICONDUCTOR LASER
SEMICONDUCTOR LASER PUMPED BY ELECTRICAL CURRENT - GALLIUM ARSENIDE N64-12569 04-25

CONDITIONS FOR OBTAINING LASER EFFECT IN SEMI-CONDUCTORS N64-15465 07-25

ETTINGSHAUSEN SEMICONDUCTOR LASER - FEASIBILITY STUDY
USAELRDL-TR-2374 N64-15614 07-25

CONSTRUCTION OF CRYOGENIC DEWAR INCLUDING DESIGN OF JIG TO HOLD DIODES - SEMICONDUCTOR LASER AMPLIFIER TECHNIQUES /SEMLAM/
RADC-TDR-63-553 N64-16644 08-25

CONSTRUCTION OF INJECTION LASER FROM SINGLE SEMICONDUCTING GALLIUM ARSENIDE CRYSTAL DIODE N64-17871 10-25

PHYSICAL THEORY OF LIQUID LASERS AND NUCLEAR PUMPING OF SEMICONDUCTOR LASERS
MHD-645 N64-29382 21-25

SEMICONDUCTOR LASER, CATALYST ADSORPTION OF OXYGEN, AND SPECTROPHOTOMETRY OF TITANIUM
JPRS-27079 N64-33995 24-07

EXCITED RADIATION FROM SEMICONDUCTOR ARSENIC-GALLIUM P-N JUNCTION N64-33996 24-25

SENN REACTOR
PHYSICS OF FUEL MANAGEMENT IN THE SENN REACTOR - COST ANALYSIS
NYO-9991 N64-14875 06-23

SENSING
TRAVELING WAVE RING LASER FOR ROTATION SENSING
AB-1272-0011 N64-33275 24-15

SENSITIVITY
NOTCH SENSITIVITY OF ALUMINUM ALLOYS COMPARED WITH STRUCTURAL STEEL - STRESS CONCENTRATION INDEX N64-10145 01-18

SENSITIVITY OF RADIOMETER MEASUREMENTS
N64-11363 02-15

EFFECT OF ADRENALINE HORMONE ON RADIOSENSITIVITY OF CHROMOSOMES AFTER IONIZING RADIATION IN MICE
JPRS-22522 N64-12068 03-16

SENSITIZATION OF TUMOR CELLS TO ACTION OF IONIZING RADIATION BY RADICAL-REACTION INHIBITORS
N64-12896 04-16

RADIOSENSITIVITY OF CHROMOSOMES OF EMBRYONIC FIBROBLASTS IN GUINEA PIGS AND MICE IN VITRO
JPRS-22719 N64-13163 04-16

CYTOLOGICAL EXAMINATION OF RADIOSENSITIVITY OF BONE MARROW & LYMPH NODE CELLS IN DIFFERENT SPECIES OF IRRADIATED MAMMALS
JPRS-22778 N64-13230 04-16

OXYGEN DEFICIENCY INDEX FOR PILOT SENSITIVITY DETERMINATIONS N64-15035 07-16

ADAPTATION OF PILOT STRESS-SENSITIVITY TO OXYGEN DEFICIENCY IN LOW PRESSURE CHAMBER
N64-15036 07-16

SAFETY HAZARDS AND SENSITIVITY CHARACTERISTICS OF LIQUID EXPLOSIVE SYSTEMS
AD-431641 N64-16624 08-26

EVALUATION OF HIGH STRENGTH MATERIALS FOR NOTCH SENSITIVITY AND FRACTURE
AD-432871 N64-17737 09-18

EFFECT OF TEMPERING ON NOTCH PROPERTIES OF STEEL SHEET
AMRA-TR-63-35 N64-18199 10-18

SENSITIVITY ANALYSIS ON MAXIMUM-FLOW NETWORKS
ORC-64-5/RR/ N64-19774 12-20

SURFACE FINISH, APPLIED TORQUE, AND SURFACE FLATNESS OF TRANSDUCER AND MOUNTING BASE EFFECT ON VIBRATION TRANSDUCER SENSITIVITY
N64-20237 13-15

ANALYTICAL METHOD OF ADJOINTS FOR DETERMINING SENSITIVITY OF LINEAR SYSTEMS FINAL STATE TO PERTURBATIONS OF SYSTEM IN TRANSIT
NASA-CR-56098 N64-20685 13-20

STRESS EFFECT ON RADIOSENSITIVITY OF RATS AND EFFECTIVENESS OF RADIOPROTECTIVE ACTION OF MERCAMINE
JPRS-25130 N64-23255 16-16

FUNDAMENTALS OF LIQUID PROPELLANT SENSITIVITY TO SHOCKS
IITRI-C6024-8 N64-25501 17-26

USE OF SENSITIVITY AS CRITERION IN SYNTHESIS OF ACTIVE NETWORKS
AL-TDR-64-165 N64-28545 20-09

TENSILE PROPERTIES AND NOTCH SENSITIVITY OF ALUMINUM ALLOYS AT CRYOGENIC TEMPERATURES
N64-28693 20-18

DESIGN AND ANALYSIS OF SENSITIVITY EXPERIMENTS
NASA-CR-58491 N64-28882 20-20

MATHEMATICAL DEFINITION OF POLE SENSIVITY OF FEEDBACK SYSTEM
NASA-CR-58239 N64-28951 20-09

THRESHOLD SENSITIVITY OF GALVANOMETRIC AMPLIFIER
N64-29132 21-15

MATHEMATICAL HEAT TRANSFER MODEL FOR DETERMINING SENSITIVITY OF HOT WIRE INITIATOR TO INPUT CURRENT
NWL-1919 N64-29877 21-13

COMPILATION OF ARTICLES ON MEDICINE - RADIATION SICKNESS, URANIUM POISONING, PROTEIN STABILITY IN BLOOD, RADIOSENSITIVITY, AND RADIATION THERAPY
JPRS-26216 N64-30241 22-16

RADIOSENSITIVITY OF MICE AFTER SPLENECTOMY AND APPLICATION OF HOMOGENATE OF SPLEEN TISSUE IN CHRONIC RADIATION SICKNESS N64-30247 22-16

PRESSURE SENSITIVITY OF THREE PIEZOELECTRIC ACCELEROMETERS
DTMB-1764 N64-32105 23-15

NOTCH SENSITIVITY OF REFRACTORY METALS - FRACTURE TOUGHNESS AND CRACK PROPAGATION IN MOLYBDENUM AND NIOBIUM ALLOYS
BPR-1 N64-32439 23-18

SKIN VISION - TACTILE, VIBRATIONAL, THERMAL, AND COLOR SENSITIVITY OF SKIN OF FINGERS
N64-32778 24-16

SENSITIVITY OF CENTRAL NERVOUS SYSTEM OF RABBIT TO CONTINUOUS ULTRAHIGH FREQUENCY ELECTROMAGNETIC FIELD N64-32782 24-16

NOTCH SENSITIVITY AND HARDNESS OF MARTENSITIC STEEL
DTMB-1850 N64-33364 24-18

SHOCK TUBE TESTS FOR LIQUID PROPELLANT SENSITIVITY
IITRI-C6024-12 N64-33573 24-26

INERT ATMOSPHERE DRYBOX SYSTEM FOR HANDLING CHEMICALLY SENSITIVE MATERIALS
LA-3109 N64-33748 24-10

SENSITIVITY MATRIX OF GENERAL LINEAR MULTIVARIABLE FEEDBACK SYSTEM
R-227 N64-33965 24-09

SENSOR

DIGITAL SOLAR ASPECT SENSING AND ON-BOARD DATA PROCESSING FOR SPIN STABILIZED SATELLITE ATTITUDE DETERMINATION
NASA-TM-X-50996 N64-10091 01-30

STABILITY OF SPACE VEHICLE IN BENDING OSCILLATIONS FOR CONTROL SENSORS
NASA-TM-X-51081 N64-10106 01-30

HOT-WIRE STILLWELL LIQUID LEVEL SENSOR SYSTEM FOR USE WITH CRYOGENIC FLUIDS
NASA-TN-D-2074 N64-10466 01-15

FIBER OPTIC SENSING DEVICE WITH OPTICAL INPUTS AND ANALOG CURRENT OUTPUTS
RADC-TDR-63-438 N64-12210 03-15

SENSING PLASTIC STRAIN WAVES WITH FRACTURING WIRES
SSD-TDR-63-250 N64-12706 04-15

MULTIFUNCTION SENSORS FOR SPACE VEHICLE GUIDANCE & NAVIGATION
RTD-TDR-63-4049 N64-13127 04-22

APPARATUS FOR ELECTROSTATIC SENSITIVITY DETERMINATIONS OF EXPLOSIVES
PA-TM-1288 N64-13667 05-26

MINIATURE MULTICHANNEL, MICROPOWERED BIO-TRANSENSOR - BODY TEMPERATURE, RESPIRATION RATE, CARDIOELECTRIC ACTIVITY, & BLOOD PRESSURE
SID-63-633 N64-13722 05-15

THRESHOLD RATE OF HYDROKINETIC RATE SENSOR WITH ELECTROSTATIC SUPPORT SYSTEM
GR-1425 N64-13773 05-15

ACTIVE DOPPLER VELOCITY SENSOR FOR RADAR NAVIGATION TECHNIQUE
BR-2604 N64-14509 06-08

DERMO-OPTICAL SENSE IN MAN
JPRS-23068 N64-14542 06-16

LIGHT AND HEAT SENSING
AGARDOGRAPH-71 N64-15452 07-03

INFORMATION CAPACITY OF HEAT AND LIGHT SENSORS
N64-15453 07-03

OPTICAL SENSORS FOR LUNAR AND PLANETARY SPACE VEHICLES N64-15477 07-19

BUBBLE LEVELS AS ATTITUDE SENSORS IN SATELLITES
SSD-TDR-63-373 N64-15727 07-22

POINT LEVEL SENSOR APPARATUS PERFORMANCE IN LIQUID HYDROGEN
NASA-CR-55328 N64-15881 07-15

FREQUENCY MODULATED-CONTINUOUS WAVE SENSOR FOR SPACECRAFT RENDEZVOUS AND LANDING
N64-16186 08-08

SYNCHRONOUS METEOROLOGICAL SATELLITE SENSOR
NASA-CR-55930 N64-17697 09-15

INERTIA CHARACTERISTICS OF AIR CURRENT DIRECTION SENSORS N64-20222 13-15

AERODYNAMIC INVESTIGATION OF AIR CURRENT DIRECTION SENSOR TO DETERMINE OPTIMUM INERTIA CHARACTERISTICS N64-20223 13-02

HEXAMEMBRANE PRESSURE SENSING ELEMENT
FTD-TT-63-654/1&2 N64-21933 15-15

HIGH TEMPERATURE TESTING OF ALUMINUM AND BERYLLIUM OXIDE SENSORS IN NONOXIDIZING ATMOSPHERES
GEMP-82 N64-22055 15-15

SENSOR REQUIREMENTS FOR MIDCOURSE GUIDANCE OF SPACECRAFT ON LUNAR TRAJECTORIES
AIAA PAPER-64-234 N64-22104 15-22

AERODYNAMICS OF SPHERICAL BALLOON WIND SENSORS
NASA-RP-228 N64-25969 18-04

CRITICAL PROBLEM AREAS IN PRESENTATION OF MULTISENSOR INTELLIGENCE IMAGERY
RADC-TDR-64-160 N64-26167 18-08

AIRBORNE IMAGE SENSORS FOR INTELLIGENCE
RADC-TDR-64-181 N64-26168 18-08

ADVANCED ANTENNA TECHNIQUES FOR AEROSPACE VEHICLE DOPPLER VELOCITY SENSORS
AL-TDR-64-163 N64-26219 18-08

IMPROVEMENT OF SENSOR RESPONSE BY ANALOG TECHNIQUE AND APPLICATION TO THERMOCOUPLE MEASUREMENT OF TEMPERATURE
USAELRDL-TR-2445 N64-26507 18-15

FLIGHT INFORMATION SENSORS, DISPLAY SYSTEM, AND CONTROL OF X-15 AIRCRAFT FOR HIGH ALTITUDE FLYING
NASA-TN-D-2407 N64-26629 18-15

MEASUREMENT OF STIMULUS COMPLEXITY IN HIGH RESOLUTION SENSOR IMAGERY
AMRL-TDR-64-29 N64-26960 18-14

PORTABLE BASELINE ORIENTOR USING MICROELECTRONICS AND GYROSCOPE TO SENSE EAST-WEST DIRECTION
PUB-552-A-32 N64-27350 19-15

SENSORS FOR NUCLEAR REACTOR INSTRUMENTATION AND CONTROL PROGRAMS
GEMP-83 N64-28029 20-15

ELECTROMAGNETIC ANGULAR ROTATION SENSOR - TRAVELING WAVE RING LASER
AB-1108-0016-1 N64-29284 21-15

PRESSURE SENSOR FOR DYNAMIC PRESSURE MEASUREMENT IN NUCLEAR REACTOR
IDO-16999 N64-30807 22-15

ATTITUDE SENSORS FOR SATELLITE CONTROL SYSTEM USING ION ENGINE PROPULSION FOR ATTITUDE CONTROL TORQUES AND ORBIT CONTROL IMPULSES
NASA-CR-53 N64-30991 22-15

FEASIBILITY DEMONSTRATION OF DIGITAL DISPLACEMENT TRANSDUCER USING OPTICAL RULING TECHNIQUE
ASD-TDR-63-475 N64-31588 23-15

SENSOR FOR LARGE HIGH PRESSURE DROPS
N64-31866 23-15

ABLATION SENSORS FOR MEASURING POSITION AND MOVEMENT OF INTERNAL DEGRADATION ZONES IN PHENOLIC-GRAPHITE HEAT SHIELDS
SSD-TDR-64-173 N64-32525 23-15

COMPATIBLE MATERIALS FOR VAPOR-PRESSURE-OPERATED HIGH-TEMPERATURE SENSOR DEVICE
NASA-CR-50001 N64-32631 23-15

INSTRUMENTATION - SENSORS, INFORMATION PROCESSING, AND CONTROL SYSTEMS N64-32775 24-15

ELECTROMAGNETIC POSITION SENSOR - APPLICATION TO PROBE-BOOM STEERING PROBLEM ASSOCIATED WITH HYPERSONIC AIRCRAFT REFUELING
LJ-1262-0210A N64-32938 24-15

TWO-ELECTRODE ELECTROCHEMICAL SENSOR FOR DETECTION OF TRACES OF PROPELLANTS IN AIR
GE/EE/63-19 N64-32946 24-07

SOLAR ASPECT SENSOR FOR SOUNDING ROCKETS - PHOTOVOLTAIC DEVICE
NASA-CR-58844 N64-33166 24-15

DETECTION OF LUNAR HORIZON FROM SPACECRAFT - THERMOPILE TEST PROGRAM
NASA-CR-58762 N64-33807 24-29

DOUBLE-CAPACITOR COINCIDENCE-DISCHARGE SENSOR FOR MICROMETEOROID PENETRATION DETECTION
NASA-TM-1037 N64-34016 24-15

SENSORY AID
PHYSIOLOGIC MECHANISM FOR PERCEPTION OF KNOWLEDGE THROUGH SENSORY ORGANS IN MAN
JPRS-19762 N64-11352 02-16

SENSORY AIDS FOR BLIND AND BLIND-DEAF PEOPLE
N64-17886 10-15

SENSORY DEPRIVATION
SA CONFINEMENT
ELECTROPHYSIOLOGICAL EFFECT OF SHORT-TERM SENSORY DEPRIVATION
TR-9 N64-26053 18-14

SENSORY PERCEPTION
EFFECT OF PROLONGED OXYGEN RESPIRATION ON TASTE SENSITIVITY N64-23695 16-16

PHYSIOLOGICAL INTERACTION OF SENSE ORGANS UNDER SPACE FLIGHT CONDITIONS N64-23741 16-16

SPATIAL PERCEPTION OF OBJECTS BY VARIOUS SENSORY ORGANS - EYES, FINGERS, HANDS N64-25137 17-16

CYBERNETIC APPROACH TO PROBLEM OF SENSUAL IMAGE AND PERCEPTION
JPRS-25761 N64-26765 18-14

SENSITIVITY OF VESTIBULAR ANALYZERS AND SENSORY REACTIONS IN MAN DURING BRIEF WEIGHTLESSNESS
N64-27633 19-16

SENSORY INTERACTION AND OPERATOR PERFORMANCE REACTION TO BISENSORY PRESENTATION OF INFORMATION
FPRC-1209/A/ N64-29766 21-14

BIOLOGY AND MEDICAL STUDIES - SKIN PERCEPTION, NERVOUS SYSTEM, AND RADIATION SICKNESS
JPRS-26725 N64-32776 24-16

SKIN VISION - TACTILE, VIBRATIONAL, THERMAL, AND COLOR SENSITIVITY OF SKIN OF FINGERS
N64-32778 24-16

RELATION BETWEEN OPTIC AND SKIN PERCEPTION OF LIGHT IN MAN N64-32779 24-16

MUSCULOMOTOR SENSATIONS IN PHYSICAL EXERCISE
JPRS-27192 N64-33761 24-14

SENSORY STIMULATION
NERVOUS RESPONSE OF MAN TO INCREASED GRAVITY AND SPACE FLIGHT CONDITIONS - MOBILITY IN PRENATALLY IRRADIATED DOGS
JPRS-17586 N64-11521 03-01

INTERACTION OF VISUAL, VESTIBULAR, AND MOTOR SENSE ORGANS UNDER SIMULATED FLIGHT CONDITIONS

N64-11522 03-14

SENSORIMOTOR RESPONSE OF MAN IN EVALUATING WEIGHTS UNDER INCREASED GRAVITY OF ACCELERATION
N64-11523 03-14

MOBILITY RESPONSES IN ANTENATALLY IRRADIATED DOGS AT VARIOUS AGES - SENSORY STIMULATION
N64-11524 03-16

BIOLOGICAL ANALYZER SYSTEMS STUDY - CYBERNETICS
N64-12520 04-16

PROCESS OF CORRECTLY SIGNALLING LOCATION OF STIMULUS TO CENTRAL NERVOUS SYSTEM
N64-18833 11-16

SENSORY STIMULATION & CONDITIONED RESPONSE
N64-22418 15-16

INDIVIDUAL DIFFERENCES AS FACTORS IN RESPONSES OF HUMAN BRAIN POTENTIALS TO RHYTHMIC LIGHT STIMULATION
N64-31458 23-14

HUMAN REACTIONS TO FEARED ELECTRIC SHOCK AND TO PRETENDED PAINFUL STIMULUS SHOWN BY HEART RATE & OTHER PHYSIOLOGICAL CHANGES
N64-31459 23-14

SEPARATION
SA DESORPTION
SA FLOW SEPARATION
SA EXTRACTION
SA SPACING
SA STAGE SEPARATION
SEPARATION CHEMISTRY AND EXTRACTION PROCESSES
ORNL-3496 N64-11547 03-07

INSTRUMENT FOR MEASURING FORCE NECESSARY TO SEPARATE SMALL METAL SPECIMENS CLEANED & JOINED IN ULTRAHIGH VACUUM
NASA-CR-52990 N64-12032 03-23

RADIOACTIVE ISOTOPE SEPARATION AND POWER REACTOR FUELS
TID-4202 N64-15394 07-23

EDDY CURRENT - BROADBAND ELECTROMAGNETIC TESTING METHOD FOR EXTRACTION AND SEPARATION OF MULTIPLE PARAMETERS
HW-79553 N64-17269 09-09

ELECTROSTATIC SEPARATION OF HIGH CONDUCTIVITY MINERALS
BM-RI-6404 N64-17299 09-17

WIND-TUNNEL TESTING OF DYNAMICS OF BLUNT BODY SEPARATION AT HYPERSONIC SPEEDS
ORA-63-13 N64-18644 11-02

SHOCK WAVE OR SPECIES SEPARATION IN SMALL SUPERSONIC JETS OF GAS MIXTURES - SQUID PROJECT
N64-18854 11-11

REACTANT PARTICLES FOR USE IN HIGH TEMPERATURE OXYGEN-NITROGEN SEPARATION DEVICE - OXIDATION MECHANISM OF COBALT OXIDE
REPT.-471 N64-20316 13-07

GUIDANCE-NAVIGATION SEPARATION THEOREM FOR TRAJECTORY CONTROL SYSTEM
AIAA PAPER-64-653 N64-27754 19-22

SEPARATION OF LANTHANIDE SERIES AND YTTRIUM USING PHOSPHONIC AND IMINODIACETIC ACID RESINS
BM-RI-6510 N64-27971 20-07

CHEMICAL SEPARATION OF CERIUM FROM TRIVALENT RARE EARTHS - FISSION PRODUCT SEPARATION FOR WASTE PROCESSING
HW-78987, REV. N64-28782 20-07

ESTIMATION OF TRACE IMPURITIES BY FLUORIMETRIC METHODS - LITERATURE SURVEY AND EXPERIMENTS WITH FLUORESCENCE REAGENTS AND SEPARATION TECHNIQUES
FTR/1/GE, PT. 1 N64-31322 22-07

MONITORING SYSTEM FOR RADIOACTIVE FISSION PRODUCT GASES FROM DISSOLUTION OF IRRADIATED URANIUM IN RADIOCHEMICAL SEPARATIONS PROCESS
DP-908 N64-32794 24-15

SEPARATOR
CF FILTER
OXIDATION TESTING, CELLOPHANE DEGRADATION AND MODIFICATION, AND DIFFUSION RATE OF SILVER IONS - ALKALINE BATTERY SEPARATOR
NASA-CR-52491 N64-10368 01-19

EVALUATION OF ALKALINE BATTERY SEPARATOR MATERIALS
NASA-CR-52478 N64-10369 01-19

POLYMER FILMS FOR SEPARATORS IN SILVER OXIDE-ZINC & SILVER OXIDE-CADMIUM CELLS FOR SPACECRAFT
NASA-CR-52475 N64-12152 03-06

EVALUATION OF CATHODE MIX, SEPARATOR PAPER, CAN MATERIAL, AND CATHODE MOLDING PARAMETERS FOR LOW TEMPERATURE ALKALINE-MANGANESE DIOXIDE BATTERY
AD-433225 N64-17622 09-06

DYNAMIC AND STATIC RESPONSE OF MINERALS IN MAGNETIC SEPARATOR
BM-RI-6411 N64-17804 09-19

ALKALINE BATTERY CELLULOSE SEPARATOR
NASA-CR-56084 N64-20630 13-06

SEPARATION MEMBRANE FOR SILVER OXIDE-ZINC AND SILVER OXIDE-CADMIUM CELLS FOR SPACECRAFT APPLICATION
NASA-CR-56345 N64-23942 16-06

POTASSIUM-HYDROXIDE-ATTACK RESISTANT SEPARATOR FOR ZINC-SILVER OXIDE BATTERY
NASA-CR-56363 N64-24032 16-06

CELLOPHANE ACTION IN IONIC BARRIER APPLICATIONS
NOLTR-63-225 N64-25672 17-19

TRAVELING WAVE SEPARATOR FOR LINEAR ACCELERATOR
SLAC-17 N64-26791 18-23

SEPARATORS FOR SILVER OXIDE-ZINC AND SILVER OXIDE-CADMIUM BATTERIES
NASA-CR-57007 N64-27241 19-06

RECOMBINATION REACTIONS, SEPARATOR MATERIALS, AND ADDITIVES FOR SEALED ZINC-SILVER OXIDE BATTERY
QPR- 3 N64-28239 20-06

POLYMERS FOR USE AS SEPARATOR FILMS IN SILVER OXIDE-ZINC AND SILVER OXIDE-CADMIUM CELLS FOR USE IN SPACECRAFT
NASA-CR-56943 N64-29171 21-06

SEPARATOR MATERIALS FOR ALKALINE SILVER-ZINC SECONDARY BATTERIES N64-30013 21-06

POROUS MATRIX PHASE SEPARATOR FOR ION ENGINE PROPELLANT FEED SYSTEM
NASA-CR-54152 N64-30033 21-27

HOT CATHODE ION SOURCE FOR ISOTOPE SEPARATOR
N64-32009 23-10

CYCLE LIFE TESTS ON SILVER OXIDE-ZINC AND SILVER OXIDE-CADMIUM CELL SEPARATORS FOR SPACECRAFT APPLICATION
NASA-CR-57013 N64-33186 24-06

SEQUENTIAL DETECTION
ASYMPTOTIC EXPANSIONS FOR BEHAVIOR OF OPTIMAL SEQUENTIAL TEST FOR SIGN OF MEAN DRIFT OF WIENER-LEVY PROCESS AND MEAN OF NORMAL DISTRIBUTION
TR-90 N64-13117 04-23

SEQUENTIAL DETECTION METHOD FOR MULTIPLE-RESOLUTION-ELEMENT RADAR
NEL-1201 N64-17363 09-08

OPTIMIZATION OF SEQUENTIAL SIGNAL DETECTION
AD-433124 N64-21065 14-08

TARGETING TECHNIQUES - SEQUENTIAL DETECTION AND STATISTICAL PROBABILITY OF STRIKES & FAILURE
REPT.-33 N64-23921 16-20

APPLICATION OF STATISTICAL DECISION THEORY TO

DESIGN OF AUTOMATIC RADAR DETECTOR SYSTEMS - DATA QUANTIZATION FOR SEQUENTIAL DETECTION
NEL-1218 N64-25961 18-20

COMMUNICATION THEORY - SEQUENTIAL DETECTION OF SIGNALS IN NOISE
RADC-TDR-64-195 N64-29026 21-08

TABLES FOR SEQUENTIAL BINOMIAL TEST WITH DETECTION AND GENERAL APPLICATIONS
NEL-1202 N64-29942 21-20

SEQUENTIAL DETECTION OF EMERGING TARGETS IN RADAR SEARCH SYSTEM
USCEE-109 N64-31083 22-08

SEQUENTIAL MACHINE
RELIABILITY OF COMPONENTS IN SEQUENCE WITH SENSING, SWITCHING, AND SHELF-LIFE FAILURES
REPT.-6121-7531-TU-000 N64-13371 04-20

MICRO-OPERATION SEQUENCES IN MICROPROGRAM BY SINGLE AUTOMATIC CONTROL DEVICE - DIGITAL COMPUTER
JPRS-23816 N64-17349 09-20

AUTOMATA THEORY APPLIED TO SEQUENTIAL MACHINES - SWITCHING CIRCUITS
R-168 N64-19397 12-17

SOLID STATE SATELLITE SEPARATION SEQUENCE TIMER TO PROVIDE FOR PAYLOAD SEPARATION SEQUENCE AT APPROXIMATE INTERVALS
NASA-TN-D-2319 N64-25710 17-15

MODULAR REALIZATION OF SEQUENTIAL MACHINES WITH SYMMETRICAL STATE DIAGRAMS
R-183 N64-27572 19-09

PERIODIC FUNCTION OF FINITE-STATE SEQUENTIAL MACHINES AS RELATED TO NECKLACE PROBLEM SOLVING
NASA-CR-58245 N64-28967 20-20

LANGUAGE AND ALGORITHM FOR ABSTRACT SYNTHESIS OF SEQUENTIAL MACHINE - SYSTEMS DESIGN
NASA-TT-F-260 N64-33481 24-20

SERIES
$ BALMER SERIES
$ FOURIER-BESSEL SERIES
$ FOURIER SERIES
$ FROBENIUS SERIES
$ LEGENDRE FUNCTION SERIES
$ POWER SERIES
$ TIME SERIES

SEROTONIN
INFLUENCE OF SPACE FLIGHT FACTORS ON SEROTONIN LEVEL IN BLOOD OF ANIMALS N64-11685 03-16

ORAL ADMINISTRATION OF SEROTONIN AND SULFUR DRUGS AND EFFECT ON RADIATION CHANGES OF SPLEEN, THYMUS GLAND, AND INTESTINE ENZYME ACTIVITIES N64-13504 05-16

BRAIN SEROTONIN AND BEHAVIOR IN SELECTED STRAINS OF RATS
UCRL-11179 N64-25204 17-16

X-RAY PROTECTIVE EFFECTS OF SEROTONIN AND ALLIED SUBSTANCES
REPT.-1 N64-32583 23-16

ANIMAL STUDIES ON EFFECTS OF ANTISEROTONIN DRUGS
AD-447846 N64-33662 24-16

SERT
$ SPACE ELECTRIC ROCKET TEST /SERT/

SERUM
$ PROTEIN
ISOLATION OF ANTIBODIES FROM AGGLUTINATING ANTI-PLAGUE & ANTICHOLERA SERUM, AND PURIFICATION, USING NEW LUMINESCENT STAIN
JPRS-19936 N64-11220 02-16

EFFECTS OF VARIOUS SERA ON MALIGNANT GROWTHS - IMMUNOLOGY & RADIATION SICKNESS
JPRS-20040 N64-11354 02-16

X-RAY SPECTROGRAPHY OF LEVELS OF CHEMICAL ELEMENTS IN BLOOD SERUM
UCRL-10873 N64-15242 07-16

RADIATION SICKNESS - PROTECTIVE EFFECT OF BACTERIAL ANTIGENS, ACCUMULATION OF IODINE 131, & REGENERATION OF SCIATIC NERVE
JPRS-24704 N64-20827 14-16

SERUM PROPHYLAXIS AND THERAPY OF BACTERIAL INTOXICATIONS IN IRRADIATED ANIMALS N64-20946 14-16

PROPERTIES OF SERUM FROM RABBITS IMMUNIZED WITH HUMAN URINARY ERYTHROPOIETIN - HUMAN PHYSIOLOGY N64-22854 16-16

ELECTROPHORESIS CONCENTRATION OF SEPARATED SERUM PROTEIN FRACTIONS N64-22856 16-16

INTERRELATIONSHIPS BETWEEN SERUM LIPIDS, SERUM LIPOPROTEINS, AND LIPOPROTEIN COMPOSITION N64-22860 16-16

INFRARED SPECTROPHOTOMETRY FOR MICRODETERMINATION OF SERUM TRIGLYCERIDES AND CHOLESTERYL ESTERS N64-22862 16-16

SERVICE
PERFORMANCE IMPROVEMENT OF SERVICE SYSTEMS THROUGH OPTIMAL PRIORITY CLASSIFICATION - STATISTICAL DECISION THEORY
ORC-63-29/RR/ N64-19054 11-20

SERVICEABILITY TEST FOR ROCKET MOTOR 14-OS-1000, MK 4 MOD 2, AND MB MODELS
ODY-TR-64-759 N64-24235 17-27

RELIABILITY OF RESERVE SYSTEMS IN PERIODS BETWEEN OCCASIONAL MAINTENANCE SERVICING N64-30214 22-20

SERVOMECHANISM
CF ACTUATOR
SERVOMECHANISM FOR POINTING HORN-REFLECTOR ANTENNA N64-10887 02-08

BIAXIAL POINTING SERVO CONTROL
AFCRL-63-703 N64-11932 03-22

INTERCHANGING PERSHING ST-120 SERVO BOX WITHOUT READJUSTING ACCELEROMETER AMPLIFIER BALANCE POTENTIOMETER
RG-TR-63-24 N64-12221 03-15

SERVOMECHANICAL SYSTEM FOR MEASURING VAPOR PRESSURE OF METAL HALIDE
BM-RI-6421 N64-18511 10-15

SERVOMECHANISM FOR CONTROL OF KNIFE EDGE IN SCHLIEREN PHOTOGRAPHY SYSTEM
AEDC-TDR-64-126 N64-22607 15-10

PISTON MOTION OF HYDRAULIC SERVOSYSTEM N64-23558 16-11

STABILITY OF STEADY STATE MOTION OF SERVO WITH FEEDBACK N64-23560 16-23

REDUCTION GEAR RATIO IN OPTIMAL RESPONSE SERVO SYSTEM N64-24515 17-09

TIME OPTIMAL CONTROL AND LINEARIZED COMPENSATION IN RELAY SERVOSYSTEMS
REPT.-844 N64-27194 19-09

SERVO SYSTEM FOR CONTINUOUS MEASUREMENT OF BURNING RATE OF SOLID PROPELLANT
JPC-374 N64-29841 21-26

CYBERNETICS - AUTOMATIC CONTROL SYSTEMS, ERRORS, SERVOMECHANISMS, LINEAR & NONLINEAR SYSTEMS, AND RELIABILITY
JPRS-26336 N64-30207 22-01

SYNTHESIS OF TRANSFER FUNCTION OF TWO-DIMENSIONAL SERVOMECHANISM FOR REPRODUCTION OF CURVES IN SPACE N64-30222 22-09

DIGITAL SERVOMECHANISM FOR AUTOMATIC CONTROL SYSTEM EMPLOYING PULSE FREQUENCY FEEDBACK
NASA-CR-59064 N64-32987 24-09

POWER ELEMENTS & SYSTEM DESIGN OF SERVOMECHANISMS FOR AUTOMATIC CONTROL SYSTEMS
AMCP-706-139 N64-33128 24-09

SERVOMOTOR
PREDICTING TWO-PHASE SERVOMOTOR CHARACTERISTICS BY COMPUTER N64-31488 23-17

SET THEORY
SET THEORY TREATMENT OF PLANAR ORBITS AND TRAJECTORIES
NASA-CR-52227 N64-10094 01-20

DEVELOPMENT OF AXIOMATIC SET THEORY BY MATHEMATICS
CERN-63-31 N64-12138 03-20

DIFFERENCE SETS IN ELEMENTARY ABELIAN GROUPS
MRC-422 N64-12329 03-20

EXTREME POINTS OF FINITE AND CLOSED CONVEX SETS - TOPOLOGY N64-13422 05-20

GENERAL VERSION OF KAKUTANI THEOREM CONCERNING PRODUCT MEASURES - SET THEORY
MRC-438 N64-13825 05-20

FINITE STATE MACHINES - DEFINITION, COMPOSITION, & DECOMPOSITION INTO CARTESIAN PRODUCT OF TWO SMALLER FINITE STATE MACHINES
AFCRL-63-543 N64-14663 06-20

GRADIENT INEQUALITY FOR NONDIFFERENTIABLE FUNCTIONS - MATHEMATICAL PROGRAMMING
ORC-63-25-/RR/ N64-14819 06-20

NORMALLY EMBEDDED SETS OF NORMAL TOPOLOGICAL SPACES
NASA-TT-F-193 N64-14938 06-20

NONLINEAR CODES - DIFFERENCE SETS, MULTIPLIERS OF DIFFERENCE SETS, AND EXISTENCE OF DIFFERENCE SETS IN ABELIAN GROUPS
AFCRL-64-137 N64-29432 21-20

SEWAGE
IONIZING RADIATION EFFECTS ON COLLOIDS AND SEDIMENTATION OF SEWAGE
D63-341 N64-12131 03-07

SEX FACTOR
EFFECT OF SPACE FLIGHT FACTORS ON INCIDENCE OF SEX LINKED RECESSIVE LETHAL MUTATIONS IN FLIES
NASA-TT-F-8826 N64-23043 16-16

SEXTANT
CF POSITION INDICATOR
SEXTANT SIMULATOR FOR MIDCOURSE GUIDANCE OF MANNED SPACECRAFT DURING INTERSTELLAR TRAVEL
AIAA PAPER-64-651 N64-27675 19-22

SFERICS
DIRECTIVE VERY LOW FREQUENCY ANTENNAS FOR RECEPTION OF TRANSPOLAR SFERICS
AFCRL-63-371 N64-31636 23-08

USE OF SFERICS AS SIGNAL SOURCE IN MEASUREMENT OF VERY LOW FREQUENCY ANTENNA PATTERNS
NOLC-581 N64-33796 24-08

SHADOW
REFLECTION OF SOUND WAVES FROM STATISTICALLY UNEVEN SURFACE IN PRESENCE OF SHADOWS
N64-27159 19-08

SHADOW TIME AND HEAT INPUT OF EGO SATELLITE
NASA-TM-X-55014 N64-27251 19-32

SHADOW PHOTOGRAPHY
SA X-RAY INSPECTION
HIGH INTENSITY SPARK LIGHT SOURCE OF SHORT DURATION FOR SCHLIEREN & DIRECT SHADOW PHOTOGRAPHY
TN-SE-5-64 N64-33438 24-09

SHADOWGRAPH
HEAT TRANSFER AND SHADOWGRAPH TESTS OF ELLIPTICAL LIFTING BODIES WITH SHARP & BLUNT NOSE SHAPES AT HYPERSONIC SPEEDS
AEDC-TDR-64-19 N64-16075 07-02

MEASUREMENT OF CHAPMAN-JOUGUET PRESSURES AND REACTION ISENTROPIC EXPONENTS OF PURE AND MIXED EXPLOSIVES FROM SMEAR CAMERA SHADOWGRAPHS OF CYLINDRICAL SHOCK WAVES IN WATER
NOLTR-64-58 N64-29864 21-11

SHAFT
SA ROTATING SHAFT
MULTISPEED RESOLVERS FOR ANALOG DIGITAL CONVERSION OF SHAFT ANGLES
NASA-TM-X-51204 N64-11229 02-20

POWER TRANSMISSION SHAFTS OPERATED ABOVE PREVIOUS CRITICAL SPEEDS
ASD-TDR-62-728, PT. 1 N64-12225 03-09

TORSION OF ROUND SHAFTS WITH VARIABLE DIAMETER
RSIC-179 N64-21913 15-17

REDUCTION OF STRESS CONCENTRATION IN SHOULDERED SHAFTS
RSIC-212 N64-26830 18-34

SUPERCRITICAL OPERATION OF HIGH SPEED POWER TRANSMISSION SHAFTS, DESIGN FOR HELICOPTER USE
ASD-TDR-62-728 N64-28226 20-17

FATIGUE TESTS OF NORMAL & CHROMED T-56 JET ENGINE PROPELLER SHAFTS
AD-603142 N64-33433 24-17

SHAPE
S LINE SHAPE
S MODE SHAPE

SHEAR LAYER
VELOCITY VARIATION ACROSS MIXING ZONE BETWEEN TWO STREAMS OF DIFFERENT VELOCITY IN ARBITRARY PRESSURE GRADIENT - INCOMPRESSIBLE SHEAR LAYER
MD-9 N64-17855 10-11

INITIAL BOUNDARY LAYER EFFECT ON DEVELOPMENT OF TURBULENT FREE SHEAR LAYER
ARC-CP-682 N64-28848 20-11

EFFECT OF BOUNDARY LAYER BLOWING ON LAMINAR SEPARATED SHEAR LAYER - DEFENDER PROJECT
EOS-RN-9 N64-29320 21-11

SHEAR STRENGTH
OVERLAP, CLEARANCE, WIDTH, AND SHEAR STRENGTH OF BRAZED JOINTS
A465 N64-16783 08-18

SHEAR MODULUS AND SHEAR STRENGTH OF STRUCTURAL MATERIAL FOR CENTAUR VEHICLE THERMAL SHIELDING
FTDM-3048 N64-20048 13-18

SHEARING FORCES IN CYLINDRICAL OR SECTIONALLY VARIABLE THIN CONICAL SHELLS
DVL-274 N64-21528 15-33

INTERLAMINAR SHEAR STRENGTH OF FILAMENT-WOUND REINFORCED PLASTICS
QPR-1 N64-22292 15-17

RESISTANCE WELD EVALUATION OF TANTALUM ALLOY
A749 N64-22591 15-17

LAP SHEAR STRENGTH AND THERMAL CONDUCTIVITY STUDY OF ADHESIVES
A750 N64-22592 15-19

SHEAR STRENGTH OF PLASTIC LAMINATES REINFORCED WITH UNWOVEN GLASS FIBERS
FPL-033 N64-22894 16-34

INCREASE IN MECHANICAL STRENGTH AND PLASTICITY OF CERAMICS BY ADDITION OF ASH, CEMENT, AND GYPSUM
N64-23195 16-19

SHEAR STRENGTH DEFORMATION TESTS OF UPPER MANTLE MINERAL ANALOGS FORSTERITE, ENSTATITE, DIOPSIDE, AND LABRADORITE AT 27 DEGREE CENTIGRADE
AFCRL-63-619 N64-31808 23-12

INTERLAMINAR SHEAR STRENGTH OF FILAMENT-WOUND REINFORCED PLASTICS
AD-603565 N64-32196 23-19

SHEATH
S PLASMA SHEATH
TREATMENT OF ELECTRON DISPLACEMENT NEAR ANTENNAS RADIATING WITHIN IONOSPHERE - ION SHEATH
NASA-RP-211 N64-25001 17-08

SHEET
SA FOIL
SA PANEL
SA PLATE
EMITTANCE MEASUREMENT FOR SHEET MATERIALS AT LOW TEMPERATURE, AND MATHEMATICAL EXPRESSION FOR CYLINDRICAL CONFIGURATION N64-10954 02-13

DYNAMICS & STRUCTURE OF CURRENT SHEETS IN COAXIAL PLASMA GUN
NASA-CR-55018 N64-11889 03-24

FINITE RESISTIVITY INSTABILITIES OF SHEET PINCH WITH FIRST ORDER GYRATION RADIUS CORRECTIONS
MATT-258 N64-22117 15-23

SURFACE CURRENTS IN THIN CONDUCTING SHEETS FOR CALCULATION OF RADAR REFLECTION AND SCATTERING N64-24293 17-08

ZONAL HARMONICS TO EVALUATE MAGNETIC FIELDS GENERATED BY AXISYMMETRIC CURRENT SHEETS
NASA-TN-D-2400 N64-26248 18-25

MAPPING OF MAGNETIC FIELD IN VICINITY OF CURRENT SHEETS IN PLASMAS - THEORY OF STRUCTURE OF CURRENT SHEETS
NASA-CR-58649 N64-29405 21-24

PROCESSING OF HIGH STRENGTH NIOBIUM ALLOY FOR SHEET ROLLING
AD-606291 N64-33427 24-18

CHARGED PARTICLE TRAJECTORIES IN CURRENT SHEET BASED ON OPEN MODEL OF MAGNETOSPHERE
AFCRL-64-726 N64-33550 24-28

MOTION EQUATIONS FOR CONSTANT CURRENT SHEET VELOCITY MODEL OF COAXIAL PLASMA ACCELERATOR
R64SD61 N64-33600 24-24

SHEET METAL
EFFECTS OF TWO NICKEL ALLOY BRAZE COATINGS, HEAT TREATMENTS, AND PROCESSING VARIABLES ON RUPTURE STRENGTH OF SHEET METALS
NASA-TN-D-1880 N64-10334 01-18

RELATIONSHIPS OF COERCIVE FORCES OF MAGNETICALLY-SOFT MATERIALS TO THE THICKNESS OF SHEET MADE FROM ROLLED POWDERS N64-11526 03-18

TUNGSTEN SHEET - RECRYSTALLIZATION TEMPERATURES, COMPRESSION PROPERTIES, AND BEND-TRANSITION-TEMPERATURE CURVES
REPT.-6495-1479-IV N64-11758 03-18

CASTING OF REFRACTORY MOLYBDENUM AND TUNGSTEN BASE ALLOYS INTO SHEET MATERIALS
AD-422106 N64-12377 03-33

STRINGER EFFECT ON TENSILE STRENGTH IN CRACKED SHEET
AD-425873 N64-12818 04-33

DIMENSIONAL, VISUAL, AND DYE-PENETRANT INSPECTIONS OF TUNGSTEN SHEET
ER-1399-1 N64-12929 04-18

TITANIUM & TITANIUM ALLOYS - SHEET STAMPING, ALLOYING INFLUENCE ON STAMPABILITY, & SAFETY TECHNIQUES
JPRS-22746 N64-13019 04-18

NIOBIUM ALLOY SHEET ROLLING
AD-424593 N64-13109 04-18

PRODUCTION & TESTING OF MOLYBDENUM-TITANIUM AND TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY SHEET
AD-423981 N64-13118 04-18

FAILING LOAD AND FAILURE MODE FOR ALUMINUM SHEET
A237 N64-13247 04-18

FLEXIBILITY & TENSILE STRENGTH OF COMMERCIAL TUNGSTEN SHEET
ASD-TDR-63-585, VOL. 1 N64-13767 05-18

MECHANICAL PROPERTIES OF WROUGHT TUNGSTEN SHEET
ASD-TDR-63-585, VOL. 2 N64-13768 05-18

DEFORMATION PROCEDURES USED ON HIGH PURITY POWDER IN FABRICATION OF BERYLLIUM SHEET - DEVELOPMENT OF TEST PROCEDURES
I-82106-1 N64-13974 05-18

BIAXIAL TENSILE STRENGTH OF ANISOTROPIC SHEET MATERIALS
AMRA-TR-63-11 N64-14000 05-18

PLANE ELASTIC STRESS PROBLEM OF RECTANGULAR TENSILE SHEET WITH EDGE CRACKS
AMRA-TR-63-22 N64-14001 05-33

SHEET METAL STABILITY UNDER BIAXIAL PLASTIC DEFORMATION
JPRS-23055 N64-14256 06-33

TEAR RESISTANCE OF 80 TYPES OF ALUMINUM ALLOY SHEET AS EVALUATED BY KAHN-TYPE TEAR TESTS
REPT. 9-62-42 N64-14456 06-18

PROCESSING AND EVALUATION OF PREPRODUCTION QUANTITIES OF FS-85 AND B-66 NIOBIUM ALLOY SHEET
AD-430003 N64-15756 07-18

SHEET ROLLING OF NIOBIUM ALLOYS
AD-430773 N64-16438 08-17

ALUMINUM SHEET PLATE WELDING TOOLS AND TECHNIQUES
NASA-SP-5003 N64-16859 08-17

MECHANICAL AND PHYSICAL PROPERTIES OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY AND TUNGSTEN SHEET
REPT.-6659-1479-5 N64-16992 09-18

SOVIET SHEET ROLLING TECHNOLOGY
JPRS-23596 N64-17021 09-17

ANALYSIS OF SHEET MOLYBDENUM FOR GAS CONTENT
N64-17024 09-07

STAMPING-COLD DRAWING OF HEAT RESISTANT SHEET METAL N64-17083 09-17

SHEET STAMPING HEAT RESISTANT ALLOYS & TITANIUM ALLOYS - METALWORKING N64-17085 09-17

DETERMINATION OF RESISTANCE WELDABILITY OF TZM MOLYBDENUM ALLOY THIN SHEET
A475 N64-17133 09-17

MOLYBDENUM AND ITS ALLOYS - SHEET FABRICATION AND BONDING PROCESSES, INFAB ATMOSPHERE PURITY STUDIES N64-17214 09-18

SURFACE CRACK TOUGHNESS OF TWO HIGH STRENGTH SHEET STEELS
NRL-5895 N64-17373 09-19

COLD-ROLLING UNDER TENSION FROM 0.1 TO .015 INCH - NIOBIUM AND TANTALUM ALLOYS
AD-422001 N64-17616 09-17

PROCESSING OF NIOBIUM AND TANTALUM BASE ALLOYS FROM INGOT TO SHEET, ROLLING OF PURE TUNGSTEN SHEET
AD-418544 N64-17617 09-17

PLASTIC DEFORMATION AND ANISOTROPY IN TITANIUM ALLOYS AND SHEET STEEL
AD-431969 N64-17642 09-17

EFFECT OF TEMPERING ON NOTCH PROPERTIES OF STEEL SHEET
AMRA-TR-63-35 N64-18199 10-18

THERMAL STRESS REQUIREMENTS OF MISSILE AND SPACECRAFT INDUSTRIES OF REFRACTORY METALS - TUNGSTEN SHEET

ANC-TR-8-107/1/ N64-18893 11-18

QUALITY STANDARDS FOR TUNGSTEN SHEET METAL
MAB-196-M N64-19017 11-17

WELDABILITY OF NICKEL-COBALT-MOLYBDENUM MARAGING STEEL SHEET
SM-44648 N64-19024 11-18

SINTERING AND FABRICATION IMPROVEMENTS FOR TERNARY ALLOYS - TUNGSTEN BASE SHEET ALLOY
QPR-3 N64-19626 12-18

TENSILE STRENGTH OF TANTALUM ALLOY SHEET
WANL-PR-M-008 N64-20405 13-18

MECHANICAL ANISOTROPY OF TITANIUM SHEET ALLOYS IN UNIAXIAL TENSION - INVALIDATION OF HILL THEORY
AMRA-TR-63-36 N64-20418 13-18

MECHANICAL AND PHYSICAL PROPERTIES OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY AND TUNGSTEN SHEET
REPT.-6774-1479-VI N64-21410 14-18

ULTRASONIC ENERGY APPLIED TO ROLLING PROCESS FOR SHEET METALS
AD-438937 N64-21574 15-17

METALLOGRAPHIC EXAMINATION OF TITANIUM-ZIRCONIUM MOLYBDENUM ALLOY SHEET
A747 N64-22589 15-17

SHEET ROLLING OF NIOBIUM ALLOY
IR-3 N64-22954 16-18

ELECTRONIC INSPECTION DEVICE TO MEASURE AND CONTROL SPEED OF SHEET METAL ROLLING
N64-23087 16-15

MECHANICAL AND THERMOPHYSICAL PROPERTIES OF COATED NIOBIUM AND TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOYS AND SUPERALLOY THIN SHEET
SID-63-956 N64-24126 16-18

QUALITY CONTROL OF TUNGSTEN SHEET PRODUCED BY REFRACTORY SHEET METAL ROLLING
NOW-63-0786D N64-24219 16-18

CRACK PROPAGATION PROPERTIES OF THIN SHEETS
ARC-CP-564 N64-25066 17-33

FORMING OF REFRACTORY METAL AND ALLOY SHEET FOR HIGH TEMPERATURE STRUCTURAL DESIGNS
N64-27600 19-18

APPLICATION OF ULTRASONIC WAVE ENERGY TO ROLLING OF SHEET METAL
BPR-2 N64-29870 21-18

TUNGSTEN SHEET FABRICATION USING ULTRAFINE TUNGSTEN METAL POWDER, COLD PRESSING, AND SINTERING PROCESSES
ASC-TR-8-107 /V/ N64-29900 21-18

TESTING SYSTEM STIFFNESS EFFECTS ON FRACTURE OF CRACKED SHEET SPECIMENS
ML-TDR-64-150 N64-29937 21-18

STRUCTURAL DAMAGE IN SHEET DRAWING OF COPPER AND ALUMINUM ALLOYS
AD-603404 N64-30882 22-18

FABRICATION, PHYSICAL PROPERTIES, AND SPINNING CHARACTERISTICS OF TUNGSTEN SHEET AND PLATE
QR-1 N64-31180 22-18

PRODUCTION AND EVALUATION OF TANTALUM ALLOY SHEET
AD-604173 N64-32582 23-18

FEASIBILITY OF APPLICATION OF ULTRASONIC RADIATION TO SHEET METAL ROLLING PROCESS
BMPR-3 N64-32978 24-17

MECHANICAL & PHYSICAL PROPERTIES OF TZM ALLOY SHEET AND TUNGSTEN SHEET
QPR-7 N64-33948 24-18

SHELL
SA ANISOTROPIC SHELL
SA CIRCULAR SHELL
SA CONICAL SHELL
SA CYLINDRICAL SHELL
SA ELASTIC SHELL
SA LIQUID-FILLED SHELL
SA ORTHOTROPIC SHELL
SA SPHERICAL SHELL
SA THIN WALLED SHELL
SA TOROIDAL SHELL
LINEAR BENDING ANALYSIS OF PRESSURIZED MULTICELL SHELL STRUCTURE
GD/A-63-0968 N64-10083 01-34

INVARIANT SHELL COORDINATES FOR GEOMAGNETICALLY TRAPPED PARTICLES N64-12002 03-28

DIFFERENTIAL EQUATIONS AND ASYMPTOTIC INTEGRATION FOR SOLUTION OF THERMAL STRESS ON THIN PARABOLIC SHELL OF REVOLUTION
NASA-CR-53007 N64-13276 04-34

STRESSES & DISPLACEMENTS IN ELASTIC-PLASTIC SHELLS OF REVOLUTION WITH TEMPERATURE-DEPENDENT PROPERTIES
LMSC-6-90-62-123 N64-13325 04-34

COMPUTER PROGRAM IN FORTRAN-2 LANGUAGE FOR STRESS ANALYSIS OF THICK SHELL OF REVOLUTION WITH AXISYMMETRIC PRESSURES, TEMPERATURES, AND LOADS
WAPD-TM-398 N64-14539 06-33

STRESS ANALYSIS FOR SHELLS OF REVOLUTION WITH NONSYMMETRIC LOADS
LMSC-6-90-61-58 N64-14609 06-33

PLASTIC DEFORMATION - CREEP AND CARRYING CAPACITY OF SHELLS
RSIC-132 N64-17638 09-33

AXISYMMETRIC, PLANE-STRAIN DYNAMIC RESPONSE OF THICK, ORTHOTROPIC, VISCOELASTIC SHELL
PIBAL-682 N64-18769 11-33

MATRICES FOR MODELS OF DISKS, PLATES, AND SHELLS
AD-434846 N64-18913 11-20

EQUATIONS FOR DYNAMIC RESPONSE OF THREE-DIMENSIONAL SHELLS OF ELASTIC-PLASTIC MATERIALS
ASRL-TR-110-1 N64-19110 11-33

THERMOELASTIC DIFFERENTIAL EQUATIONS FOR SHELLS OF ARBITRARY SHAPE
SSD-TDR-63-20 N64-19157 11-33

CIRCUMFERENTIAL STRESSES IN PRESSURE VESSEL SHELLS OF REVOLUTION
ASME-PAPER-62-PET-4 N64-20675 13-33

VARIATIONAL THEOREM FOR STRESSES AND MERIDIONAL SLOPES IN AXISYMMETRIC SHELLS WITH LARGE DEFORMATIONS
ME-836-6310 N64-20774 14-33

MEMBRANE DEFORMATIONS FOR SHALLOW SHELLS HAVING POSITIVE GAUSSIAN CURVATURE
FTD-TT-63-598/1&2&3&4 N64-21951 15-33

VIBRATION & RESPONSE OF CURVED PANELS - DYNAMIC NONLINEAR SHALLOW SHELL EQUATIONS
IDA/HQ-63-1346 N64-22202 15-33

EQUATIONS OF THEORY OF SHELLS CONSISTING OF SEVERAL ANISOTROPIC LAYERS N64-22803 16-23

DEFLECTIONS OF COMBUSTION CHAMBER SHELLS IN LIQUID ROCKET ENGINES N64-23630 16-24

LOCAL DEFLECTION IN SHELLS OF COMBUSTION CHAMBER OF LIQUID PROPELLANT ROCKET ENGINE
N64-23632 16-23

BEHAVIOR OF AERODYNAMICALLY HEATED PLATES AND SHELLS IN SUPERSONIC GAS FLOW N64-23682 16-11

DESIGNING STRUCTURALLY ORTHOTROPIC SHELLS OF REVOLUTION N64-23692 16-34

LAGRANGE VARIATION EQUATION TO OBTAIN EQUATIONS OF MOTION AND BOUNDARY CONDITION FOR ORTHOTROPIC

SHELL
N64-23693 16-33

AXISYMMETRICAL SHELLS FOR AERONAUTICAL STRUCTURES
FTD-TT-62-1652/1&2&4 N64-24631 17-33

THREE-LAYER AXISYMMETRIC HONEYCOMB AND CORRUGATED SHELLS
N64-24633 17-34

STRAIN-DISPLACEMENT RELATIONS IN LARGE DISPLACEMENT THEORY OF SHELLS
SSD-TDR-64-87 N64-24878 17-23

SHELL THEORY OF PROTON-NEUTRON INTERACTION IN ATOMIC NUCLEUS
USNRDL-TR-723 N64-25213 17-23

SHELL MODE COUPLING - NATURAL FREQUENCIES, MODE SHAPES, AND SHELL VELOCITIES
U411-63-041 N64-26857 18-33

BUCKLING OF TORISPHERICAL SHELLS UNDER INTERNAL PRESSURE - END CLOSURES FOR PRESSURE VESSELS
AMRA-TR-64-10 N64-26942 18-33

ELASTIC VIBRATIONS OF PARABOLOIDAL SHELLS OF REVOLUTION
AD-402926 N64-29920 21-33

LINE & SURFACE INTEGRALS, VOLUMES, CENTROIDS OF VOLUME, AND MOMENTS OF INERTIA FOR THIN-WALLED SHELLS OF REVOLUTION
NASA-CR-89 N64-30084 21-20

SHELL STABILITY
SA BUCKLING
GENERAL APPROXIMATE NUMERICAL METHOD FOR STRESS ANALYSIS OF THIN SHELLS
GD/A-63-0761 N64-10076 01-23

ANALYSIS OF VIBRATIONS OF THIN SHELL MODELS & BAR SYSTEMS WITH ELECTRONIC APPARATUS
FTD-TT-63-735/1&2&3&4 N64-12632 04-33

PLASTIC STABILITY OF SIMPLY SUPPORTED SPHERICAL PLATES UNDER EXTERNAL PRESSURE
NASA-CR-53358 N64-17821 09-33

LITERATURE REVIEW OF PANEL AND SHELL FLUTTER CHARACTERISTICS
AGARD-475 N64-19913 12-33

RAYLEIGH-RITZ METHOD USED TO SOLVE STABILITY OF PROLATE SPHEROIDAL SHELLS UNDER UNIFORM EXTERNAL PRESSURE
DTMB-TRANS-317 N64-24098 16-11

STABILITY OF AXIALLY LOADED THIN CYLINDRICAL SHELL UNDER DYNAMIC LATERAL PRESSURES
AIAA PAPER-64-485 N64-24218 16-23

STABILITY OF INTERNAL PRESSURIZED CONICAL SHELL UNDER TORSION
SSD-TDR-64-14 N64-26183 18-33

VIBRATION AND STABILITY OF RIBBED CYLINDRICAL SHELLS IN COMPRESSIBLE LIQUID FLOW
FTD-TT-63-647/1 N64-29027 21-33

SHELL THEORY
GEOMETRIC NONLINEAR THEORY OF SHELLS
NASA-CR-53219 N64-17224 09-20

QUANTUM MECHANICS - THEORY OF NUCLEAR SHELL MODEL
AROD-1784-31 N64-17486 09-23

AXISYMMETRIC, PLANE-STRAIN DYNAMIC RESPONSE OF THICK, ORTHOTROPIC, VISCOELASTIC SHELL
PIBAL-682 N64-18769 11-33

THEORY OF SHELLS AND ITS APPLICATION TO ENGINEERING
NASA-TT-F-99 N64-19883 12-33

COMPUTER PROGRAM FOR BELLOWS ANALYSIS BASED ON SHELL THEORY EQUATIONS
NAA-SR-9848 N64-27331 19-34

SHELL & ELASTICITY THEORY EQUATIONS FOR THICK ORTHOTROPIC CIRCULAR CYLINDRICAL SHELLS
RE-182 N64-33553 24-33

SHELTER
CF SURVIVAL
SIMULATED AND HUMAN OCCUPANCY TESTS OF 100 MAN SHELTER - ATMOSPHERE AND TEMPERATURE STUDIES
USNRDL-TR-618 N64-12254 03-16

STRESS DISTRIBUTION OF DYNAMIC LOAD ON UNDERGROUND SHELTER AND TUNNEL
N64-12410 04-10

THERMAL ENVIRONMENT IN SHELTERS
TR-8 N64-18696 11-10

EMERGENCY MEDICAL SERVICE IN SHELTERS IN POST-NUCLEAR ATTACK
OU-107 N64-20811 14-16

DOSE ATTENUATION FOR NEUTRONS STREAMING IN DUCTS OF PROTECTIVE SHELTERS
R-282 N64-23338 16-23

CHEMISTRY OF POLYURETHANE FOAM SYSTEMS AND APPLICATION OF SYSTEMS TO ENGINEERING AND DEVELOPMENT OF RIGIDIZABLE SHELTERS AND SOLAR COLLECTORS
N64-23710 16-19

EXPANDABLE FOAM-IN-PLACE SHELTERS
N64-23719 16-10

INSTRUMENTATION FOR MONITORING ENVIRONMENT WITHIN CIVIL DEFENSE SURVIVAL SHELTER
AD-600759 N64-25739 17-01

OXYGEN SUPPLY AND CARBON DIOXIDE CONTROL IN CLOSED FALLOUT SHELTER
MRD-1242-2530 N64-28141 20-16

SMALL AUXILIARY POWER SYSTEMS FOR SHELTERS
AD-603227 N64-29983 21-06

SHELTER COOLING - NUCLEAR RADIATION EFFECTS, MAINTENANCE, HEAT SINK, REFRIGERATION, AND DEHUMIDIFICATION
AD-446445 N64-33111 24-13

SHIELDING
SA ELECTROMAGNETIC SHIELDING
SA ELECTROSTATIC SHIELDING
SA MAGNETIC SHIELDING
SA NUCLEAR SHIELDING
SA REENTRY SHIELD
SA SPACECRAFT SHIELDING
SHIELDING DESIGN FOR CLOSED-CYCLE, GAS-COOLED NUCLEAR POWERPLANT
IDO-28609 N64-10857 02-23

NEUTRON PHYSICS PROGRAM - REACTOR PHYSICS, CRITICAL EXPERIMENTS, SHIELDING, COMPUTER PROGRAM, RADIATION DETECTOR, & WATER DESALTING
ORNL-3499, VOL. 1 N64-11472 03-23

EFFECTIVE SHIELDING VALUES OF THE PHENYL GROUP IN SOME GROUP IVB AND VB COMPOUNDS
ASD-TDR-63-832 N64-12229 03-07

PROTECTIVE ABILITY OF THIN SHIELD AGAINST HYPERVELOCITY PROJECTILES
N64-13547 05-33

HAZARDS CONTROL - VARIOUS METHODS OF PROTECTION FROM RADIATION, LASERS, & MERCURY VAPOR
UCRL-7571 N64-14880 06-16

ATTENUATION OF SOLAR FLARE BY ALUMINUM SHIELD - SPACE VEHICLE SHIELDING
ORNL-3549 N64-15995 07-23

NEUTRON ATTENUATION IN NATURAL LITHIUM HYDRIDE SHIELDS
NAA-SR-9364 N64-16127 08-23

IMPORTANCE OF SOLAR-FLARE PROTON FUNCTIONS FOR SHIELDING OF MANNED SPACE VEHICLES
ORNL-3583 N64-17778 09-30

FIRE EXPOSURE TEST OF WOODEN JACKET SHIELD FOR RADIOISOTOPE TRANSPORTATION CONTAINER
COO-275 N64-19146 11-26

NEUTRON THERMALIZATION, BERYLLIUM SCATTERING, AND FAST NEUTRON SHIELDING RESEARCH
GA-4659 N64-22250 15-23

TRANSVERSE SHIELDING FOR ELECTRON ACCELERATOR
ORNL-3412 N64-22256 15-23

USE OF GUARD SHIELDS ON NEGATIVELY BIASED LANGMUIR ION COLLECTION CURRENT PROBES
AMP-137 N64-23102 16-24

NEUTRON TISSUE DOSE BEHIND REACTOR SHIELDING
FTD-TT-63-1047/1&4 N64-26640 18-15

MONTE CARLO METHOD FOR ANALYSIS OF GAMMA RADIATION TRANSPORT FROM DISTRIBUTED SOURCES IN SHIELDING OF LAMINATED MATERIAL
FOA-4-A-4354-411 N64-28689 20-20

EFFECT OF SHIELDING ON SOLAR ENERGY CONVERSION EFFICIENCY OF SYNCOM II SOLAR CELL ASSEMBLY
N64-29161 21-06

MECHANICS AND TECHNOLOGY - GYROSCOPIC SYSTEMS AND METEOR SHIELDING
FTD-TT-64-413/1&2&4 N64-29292 21-23

DESIGN OF PROTECTIVE METEOR SHIELDS
N64-29295 21-34

COMPUTER CODES FOR DETERMINATION OF ABSORBED SPACE RADIATION DOSE BY SPACECRAFT ON ARBITRARY TRAJECTORY - RADIATION ENVIRONMENT AND SHIELDING
WL-TDR-64-71, VOL. I N64-29329 21-23

MAGNETIC FIELD AS PROTECTIVE SHIELD FROM COSMIC RAY SHOWERS IN INTERPLANETARY SPACEFLIGHT
FTD-TT-63-760/1&2 N64-29587 21-34

FLUORINE ATOM NUCLEAR-MAGNETIC-RESONANCE SHIELDING PARAMETERS OF FLUOROBENZONITRILE DONOR-ACCEPTOR COMPLEXES - QUANTITATIVE MEASURE OF ELECTRON ACCEPTOR STRENGTHS
TR-1 N64-30032 21-07

NEUTRON SELF-SHIELDING FACTORS FOR MULTIPLE-BODY CONCENTRIC CYLINDER CONFIGURATIONS
NASA-TN-D-1587 N64-30191 21-23

PROTON ENERGY DEGRADATION AND FLUX ATTENUATION AS FUNCTION OF PENETRATION DEPTH OF SHIELDING MATERIALS
NASA-TN-X-53063 N64-30510 22-23

ANTI-BLAST VALVE FOR SHELTER VENTILATION SYSTEM
C-63584 N64-31123 22-10

SHIELDING AND WEIGHT FRACTIONS OF NUCLEAR PROPULSION SYSTEM FOR MANNED CAPSULES
NASA-CR-52964 N64-33133 24-27

NEUTRON CROSS SECTIONS FOR POLYETHYLENE SHIELDING AND FOIL DETECTORS
KN-684-64-13 N64-33244 24-23

RADIATION HAZARDS CONTROL - SHIELDING, NEUTRON AND GAMMA RADIATION SURVEY INSTRUMENTS, AND DOSIMETRY METHODS
UCRL-12004 N64-33852 24-10

SHIFT
SA FREQUENCY-SHIFT KEYING
SA PHASE SHIFT
PRESSURE INDUCED SHIFTS OF ABSORPTION LINES IN INFRARED SPECTRUM
AFCRL-64-629 N64-32150 23-07

SHIFT REGISTER
BINARY EFFECTS OF COUPLED LINEAR FEEDBACK SHIFT REGISTER
DVL-307 N64-15032 07-09

SHIFT REGISTER AS COUNTDOWN TYPE OF FREQUENCY DIVIDER
NASA-CR-53207 N64-17206 09-20

BINARY PSEUDORANDOM SHIFT REGISTER SEQUENCES WITH SHIFT AND ADD PROPERTY
RADC-TDR-64-66 N64-21073 14-20

MULTIPLE-CYCLE SHIFT REGISTER WITH FERRITE TRANSISTORIZED CELLS N64-31861 23-09

SHIP
SA HYDROFOIL
ELECTROSLAG WELDING OF SHIP PARTS WITHOUT SUBSEQUENT HEAT TREATMENT
JPRS-21485 N64-10325 01-17

NOISE REDUCTION AND CONTROLLED VIBRATION IN SHIPS
JPRS-18177 N64-11315 02-23

ULTRAHIGH FREQUENCY ELECTROMAGNETIC WAVE EXPOSURE PROBLEM ABOARD MERCHANT SHIPS DUE TO RADAR STATION
N64-11857 03-08

HYDRODYNAMICS OF SHIP SLAMMING
AD-425897 N64-13617 05-11

WAKE-ADAPTED PROPELLERS IN OPEN-WATER & PROPULSION CONDITIONS - PERFORMANCE DETERMINED BY THEORY AND EXPERIMENT
DTMB-1777 N64-13782 05-27

PROBLEM OF SHIP MOVING WITH UNIFORM VELOCITY OVER SEMI-INFINITE OCEAN AT REST AT INFINITY
RE-169 N64-14795 06-06

THEORY OF SHIP MOTIONS - FORWARD SPEED AND CROSS-COUPLING IN ABSENCE OF NEGATIVE DAMPING
TRG-126-FR-A N64-15761 07-23

SHIP-BASED COMMUNICATIONS AND TRACKING ANTENNAS
N64-16169 08-10

VIBRATION DATA ON SHIPS AND SUBMARINES
N64-18554 11-10

STABILITY AND CONTROL IN SHIP DESIGN
JPRS-24547 N64-20776 14-11

FORCES ON SHIP RUDDERS AND SCREW PROPELLERS
N64-20779 14-27

LINEAR EQUATION FOR SHIP STEERABILITY - DYNAMIC STABILITY OF SHIP MOTION N64-20780 14-11

NONLINEAR APPROACH TO SHIP STEERABILITY - DYNAMIC STABILITY N64-20781 14-11

MATHEMATICAL ANALYSIS OF SHIP STEERABILITY
N64-20782 14-11

SHIP PROPULSION - CONTROLLABLE PITCH PROPELLERS
JPRS-25147 N64-22740 16-06

OPTIMUM SPEED INDICATOR AND REGULATOR FOR RIVER BOATS N64-23091 16-15

SIMULATION OF SEA WAVE CONDITIONS FOR SHIP DESIGN SEAWORTHINESS TESTING
DTMB-1755 N64-24196 16-23

SUPERPOSITION PRINCIPLE APPLIED TO PREDICTION OF SHIP ACCELERATION AND MOTION
AD-426706 N64-25798 17-11

CALCULATING STRENGTH OF SCREW PROPELLER BLADES FOR SHIPS USED IN ICE NAVIGATION
JPRS-25936 N64-26877 18-34

DYNAMIC LOAD ON PROPELLER BLADES OF SHIP IN ICE CONDITIONS
JPRS-26033 N64-27616 19-33

FIBERGLASS USED AS STRUCTURAL MATERIAL IN SHIP BUILDING
JPRS-25575 N64-28105 20-19

BULBOUS BOWS FOR SHIPS TO MINIMIZE WAVE RESISTANCE
TR-117-6 N64-29808 21-34

SHIP HULL
SOUND INSULATING CAPABILITY OF SHIP HULL STRUCTURES
JPRS-20319 N64-10663 01-23

OPTIMUM BULBOUS SHIP HULL DESIGN FOR BOW AND STERN WAVE RESISTANCE

AD-429767 N64-15706 07-04

LINEAR DEPENDENCE OF MIDSHIP BENDING MOMENT ON WAVE HEIGHT - EXPERIMENTS WITH VARIED SHIP-TYPE MODELS
SSC-157 N64-15824 07-04

RESISTANCE TO BRITTLE FRACTURE OF NOTCHED SHIP HULL STEEL IN HEAVY SECTIONS - GEOMETRIC FACTOR
SSC-160 N64-19733 12-33

HYDRODYNAMIC FORCES AND MOMENTS ON SHIP HULLS IN MOTION WITH DRIFT ANGLE AND ANGULAR VELOCITY
N64-20778 14-11

METALLURGICAL PROPERTIES OF HIGH STRENGTH STRUCTURAL MATERIALS FOR SHIP HULLS
NRL-6086 N64-21226 14-18

NOISE REDUCTION IN HYDROFOIL BOATS AND SHIP HULLS
JPRS-24818 N64-24579 17-34

SOUND PROPAGATION IN SHIP HULL STRUCTURES AND DESIGN FOR NOISE REDUCTION N64-24581 17-34

TEMPERATURE DISTRIBUTION AND THERMAL STRESSES IN SHIP STRUCTURES
SSC-152 N64-24935 17-13

MATHEMATICAL MODELS OF SHIP HULLS - STRUCTURAL DESIGN N64-26479 18-20

FLOW RESISTANCE OF SHIP HULLS
R-834 N64-31712 23-34

SHMUSHKEVICH METHOD
ORTHOGONAL PROPERTIES OF CLEBSCH-GORDON COEFFICIENTS OF COMPACT GROUPS FOR DEVELOPMENT OF GENERALIZED SHMUSKEVICH METHOD
URPA-15 N64-11406 02-20

SHOCK
SA HYDRAULIC SHOCK
SA HYPERSONIC SHOCK
SA IMPACT
SA THERMAL SHOCK
TRANSMISSION ELECTRON MICROSCOPY OF SUBSTRUCTURES OF PLASTICALLY DEFORMED COPPER UNDER STATIC AND SHOCK LOADING
UCRL-10932 N64-10396 01-18

BIBLIOGRAPHY - SHOCK, VIBRATION, & DAMPING IN PACKAGING
TDCK-28650 N64-10462 01-33

SHOCK RELATIONS AND HEATING EFFECTS IN VERY DENSE, VERY-HIGH-TEMPERATURE GAS AND SIGNIFICANCE IN SUPERNOVA PHENOMENON AND WHITE DWARF STARS
AFCRL-63-898 N64-12298 03-23

CAPACITOR DISCHARGE EXTRUSION AND DYNAMIC RESPONSE OF SHOCK LOADING
RAC-1776 N64-12640 04-17

EQUATION FOR ACCELERATION OF LONGITUDINAL, ROTARY, AND LATERAL VIBRATION OF SHOCK ABSORBER BY IMPACT LOAD N64-13576 04-15

SMALL SHOCK NOISE OF ELECTRON TUBES N64-14927 06-09

DYNAMIC RESPONSE OF THIN, UNIFORM, TRUNCATED SPHERICAL SHELL TO AIRBLAST INDUCED SHOCK LOADS
NA63H-1035 N64-15056 07-33

HEAT TRANSFER TO NUCLEAR ROCKET NOZZLES USING SHOCK TUBE TECHNIQUES
NASA-CR-55713 N64-15894 07-13

DOUBLE SHOCK TUBE METHOD FOR SIMULTANEOUS DETERMINATION OF HIGH PRESSURE AND TEMPERATURE OF ENCLOSED GAS
SSD-TDR-63-368 N64-16129 08-11

CALIBRATION OF SHOCK SENSITIVITY TEST WITH PENTOLITE SOLID PROPELLANT
NOLTR-63-19 N64-17375 09-26

SHOCK, VIBRATION, & DYNAMIC RESPONSE OF VEHICLES AND WEAPON SYSTEMS TO ENVIRONMENTS
AD-432931 N64-18534 11-33

RELIABILITY AND MAINTAINABILITY OF MILITARY EQUIPMENT IN SHOCK & VIBRATION ENVIRONMENT - MILITARY TECHNOLOGY N64-18535 11-17

SHOCK AND VIBRATION TECHNOLOGY APPLIED TO MILITARY WEAPON SYSTEMS N64-18536 11-33

SHOCK SPECTRUM ANALYSIS USING DIGITAL COMPUTER AND FEEDBACK CONTROL METHODS N64-18548 11-23

ANALOG COMPUTER PROGRAM FOR TRANSIENT MOTION SHOCK SPECTRUM N64-18549 11-23

GRAPHIC METHOD TO DETERMINE RESPONSIVE DISPLACEMENT OF TWO-DEGREE-OF-FREEDOM DAMPED LINEAR SPRING-MASS SYSTEM MOUNTED ON SHOCK MACHINE N64-18550 11-23

SHOCK SPECTRUM OF ELASTIC BODY MOTION WITH ONE DEGREE OF FREEDOM N64-18551 11-23

ULTRAVIOLET AND VISIBLE RADIATION FROM SHOCK CAP REGION FOR LEXAN AND ALUMINUM SPHERES TRAVELING AT HYPERSONIC SPEEDS IN AIR
CARDE-TR-491/64 N64-19325 12-24

LAMINAR SUPERSONIC FLOW HEAT TRANSFER RATES IN SHOCK WAVE GENERATOR
TAE-25 N64-19390 12-13

SHOCK AND VIBRATION ENVIRONMENTAL SIMULATION AND TESTING
AD-435514 N64-20235 13-01

PEAK SHOCK VELOCITY RECORDER FOR STUDYING TRANSPORTATION SHOCK CONDITIONS N64-20241 13-15

AIR-ACCELERATED IMPACT MECHANICAL SHOCK MACHINE - SHOCK TESTING N64-20246 13-06

SIMULATING FLIGHT ENVIRONMENT SHOCK ON ELECTRODYNAMIC SHAKER N64-20247 13-10

DETERMINING SHOCK AND VIBRATION SPECIFICATIONS FROM FIELD VIBRATION DATA N64-20259 13-33

SPRING-MASS-DAMPER SHOCK ISOLATOR SYSTEM
NASA-CR-55 N64-22041 15-17

COMPARISON OF SHOCK AND ISENTROPIC HEATING IN LIGHT-GAS GUN COMPRESSION
NRL-6063 N64-22956 16-11

SHOCK AND VIBRATION TESTING - MECHANICAL AND PYROTECHNIC SHOCK, FLIGHT ENVIRONMENT PREDICTION, AND INSTRUMENTATION
AD-433726 N64-23151 16-01

MECHANICAL IMPEDANCE SIMULATION IN SHOCK AND VIBRATION TESTING N64-23152 16-23

MECHANICAL SHOCK FROM FRANGIBLE JOINTS - PYROTECHNIC SHOCK N64-23153 16-33

SHOCK ENVIRONMENT GENERATED BY PYROTECHNIC SEPARATION DEVICE N64-23154 16-23

LOADING RATIO OF SHOCK RESPONSE OF NONLINEAR SYSTEM
EM-10-23 N64-24151 16-33

REAL AIR HYPERSONIC SHOCK-HEATED FLOW PARAMETERS AT HIGH SPEEDS AND HIGH ALTITUDES
NASA-TR-R-163 N64-24592 17-13

SHOCK AND VIBRATION IN SPACE ENVIRONMENT BIBLIOGRAPHY
SB-63-24 N64-24920 17-02

INTEGRAL METHOD FOR ANALYZING FLOW FIELD OF CURVED SHOCK ABOUT BLUNT BODY
TDR-269/4560-10/-3 N64-25248 17-11

EFFECT OF AIRFOIL CURVATURE ON SHOCK-BOUNDARY LAYER INTERACTION AND AIRFOIL PRESSURE

DISTRIBUTIONS AT TRANSONIC SPEEDS
NAL-TN-AE-20-63 N64-25878 18-03

IONIZATIONAL RELAXATION FOR MODERATELY STRONG SHOCKS IN MONATOMIC GASES
N64-26150 18-24

MEASUREMENT OF SHOCK DETACHMENT DISTANCE ON SPHERES FIRED IN AIR AT HYPERVELOCITIES
N64-26152 18-02

SHOCK SENSITIVITY OF LIQUID EXPLOSIVES
PR-10 N64-26485 18-26

REENTRY PHYSICS RESEARCH - CHEMICAL REACTIONS IN SHOCK HEATED GAS MIXTURES, HYPERVELOCITY WAKE STUDIES, AND LIGHT GAS GUN AND SHOCK TUBE FACILITY DEVELOPMENT
GDA-DBE64-034 N64-27692 19-23

NUMERICAL SOLUTION AND PROGRAMMING FOR PROBLEMS INVOLVING INTERSECTION OF SHOCKS AND SHOCK-BOUNDARY LAYER INTERACTIONS FOR REAL AND IDEAL GAS
NASA-CR-56414 N64-27905 20-11

ELECTRICAL CONDUCTIVITY OF WATER UNDER SHOCK COMPRESSION
BRL-MEMO-1563 N64-28156 20-11

PREDICTED EMISSION OF VISIBLE RADIATION FROM SHOCK HEATED AIR
TN-AMSMI-RMR-63-3 N64-28416 20-23

STRONG PLANE SHOCK DECAY IN IDEAL GAS
NASA-CR-107 N64-29204 21-11

END WALL BOUNDARY LAYER BEHIND REFLECTED SHOCK IN IONIZED ARGON
NASA-CR-58759 N64-29696 21-11

BEHAVIOR OF PLEXIGLAS UNDER SHOCK LOADING
NOLTR-64-66 N64-29865 21-19

DETONATION IN PROPELLANTS & EXPLOSIVES BY LOW AMPLITUDE SHOCKS
AD-406438 N64-30144 21-26

SEISMICITY OF EARTH BASED ON SMALLER MAGNITUDE SHOCKS N64-30384 22-12

AIR SHOCK LOADING OF INVERTED HORN REFLECTOR-TYPE ANTENNA MODEL
BRL-1515 N64-30476 22-08

HUMAN REACTIONS TO FEARED ELECTRIC SHOCK AND TO PRETENDED PAINFUL STIMULUS SHOWN BY HEART RATE & OTHER PHYSIOLOGICAL CHANGES N64-31459 23-14

QUALITATIVE AND QUANTITATIVE ANALYSIS OF EXPERIMENTAL MECHANISM FOR SHOCK POLARIZATION OF NONPIEZOELECTRIC DIELECTRICS
NOLTR-64-121 N64-31674 23-25

TRANSMISSION OF OSCILLATIONS THROUGH NONLINEAR RUBBER SHOCK ABSORBER UNDER IMPACT
N64-31872 23-15

HEAT TRANSFER TESTS ON SHOCK WAVE GENERATORS & THERMOCOUPLE AND STAINLESS STEEL FINS IN HYPERSONIC WIND TUNNEL
NASA-CR-58036 N64-33219 24-13

SHOCK STIMULUS EFFECT ON GROWTH & STABILITY IN INITIATION MECHANISMS OF LOW VELOCITY DETONATIONS IN LIQUID EXPLOSIVES
AD-443796 N64-33978 24-26

SHOCK FRONT
SHOCK FRONT VARIATION IN TIME FOR HIGH SPEED IMPACT INTO WATER N64-13528 04-23

SHOCK FRONT STRUCTURE IN OXYGEN IN SHOCK TUBE AT HYPERSONIC SPEEDS - DEFENDER PROJECT
AVCO-EVERETT RES. REPT.-169 N64-15939 07-24

FAST LUMINOUS FRONTS IN ELECTROMAGNETIC SHOCK TUBE AND ERROR IN PAXTON AND FOWLER THEORY
AD-437190 N64-20086 13-24

SHOCK FRONT RADIATION IN SHOCK TUBE AND SPECTROSCOPIC TEMPERATURE MEASUREMENT IN RELAXATION ZONE
NASA-CR-58036 N64-27292 19-07

HEAT TRANSFER MEASUREMENTS, CONVECTIVE HEAT TRANSFER, SHOCK FRONT STUDIES, RADIATION IN NITROGEN-CARBON DIOXIDE MIXTURES, AND MAGNETOHYDRODYNAMICS
NASA-CR-58050 N64-27300 19-24

SPECTROSCOPIC TECHNIQUE FOR MEASURING ROTATION, VIBRATION, AND ELECTRONIC TEMPERATURES OF NONEQUILIBRIUM SHOCK FRONT
NASA-CR-58673 N64-28885 20-11

SHOCK WAVE RELATIONS IN TERMS OF MACH NUMBER OF INCIDENT SHOCK FRONT
PMMP-175 N64-33478 24-11

ANALYTIC FUNCTION FOR DESCRIPTION OF SHAPE AND POSITION OF DETACHED SHOCK FRONT
DRL-512 N64-33700 24-11

SHOCK LAYER
PRESSURE DISTRIBUTION AND SHOCK STANDOFF DISTANCE FOR BLUNT CYLINDERS IN AIR AT HYPERSONIC SPEEDS
NASA-TN-D-1979 N64-10056 01-02

SOLUTIONS FOR NONADIABATIC SHOCK LAYER IN BLUFF BODY STAGNATION REGION AT HYPERSONIC SPEEDS
NASA-TR-R-159 N64-11560 03-13

ATTENUATION OF RADIO SIGNALS PASSING THROUGH THE SHOCK LAYER OF LARGE REENTRY VEHICLES
NASA-TM-X-51027 N64-12399 03-08

SEMINAR ON MOLECULAR FLOW, GAS DYNAMICS, RADIATION AND SHOCK LAYERS, AND LAMINAR AND TURBULENT BOUNDARY LAYERS N64-16213 08-13

SHOCK LAYER RADIATION OF BLUNT BODIES AT REENTRY VELOCITY
NASA-TR-R-193 N64-17829 09-24

RADIATION EMISSION IN NONEQUILIBRIUM SHOCK LAYERS OF BLUNT REENTRY BODIES IN HYPERSONIC FLOW
CARDE-TR-496/64 N64-20883 14-02

LIMITS ON BINARY SCALING OF HYPERSONIC SHOCK LAYER CHARACTERISTICS FROM MODEL TO FULL SCALE SIZE
CARDE-TR-499/64 N64-20884 14-02

AMBIENT DISSOCIATION EFFECTS ON NONEQUILIBRIUM SHOCK LAYER FLOW
ARL-64-42 N64-22312 15-11

SOLUTIONS OF VISCOUS SHOCK LAYER EQUATIONS WITH MASS ADDITION IN STAGNATION REGION AT HYPERVELOCITY
NASA-TR-R-207 N64-28341 20-11

SHOCK TUNNEL
SA ELECTROMAGNETIC SHOCK TUBE
DISSOCIATION RATE OF CARBON DIOXIDE DILUTED WITH ARGON - SHOCK TUBE DETERMINATIONS
NASA-RP-51 N64-10290 01-11

COMBUSTION DRIVEN SHOCK TUBE INVESTIGATION OF TOTAL RADIANCE OF AIR AT HIGH TEMPERATURES
LMSC-6-90-63-97 N64-11240 02-02

ALKALI METAL VAPOR ARC TUNNEL TO STUDY COLLISION PROCESSES IN GASES BEHIND STRONG SHOCK WAVES
NOLTR-63-105 N64-11745 03-15

SMALL PERTURBATION THEORY FOR SHOCK TUBE FLOW ATTENUATION AND NONUNIFORMITY DUE TO WALL BOUNDARY LAYER
TDR-169/3230-12/TN-8 N64-12179 03-11

ION DENSITY MEASUREMENTS IN SHOCK TUNNEL BY LITHIUM VAPOR INTRODUCTION
R635D82 N64-12337 03-23

CALIBRATION AND ANALYSIS OF RECORDED SHOCK TUNNEL DATA FROM PIEZOELECTRIC PRESSURE GAUGES
RTD-TDR-63-3073 N64-13308 04-15

SHOCK-TUNNEL MEASUREMENTS OF UNDERSURFACE PRESSURE AND SHOCK ANGLE ON NONWEILER WING COMPARED WITH TWO-DIMENSIONAL FLOW ABOUT WEDGE
ARC-CP-684 N64-13391 04-03

CALIBRATION OF HYPERVELOCITY IMPULSE TUNNEL
SR-43060 N64-14089 05-10

EFFECT OF LAMINAR BOUNDARY LAYER DEVELOPMENT IN SHOCK TUBE ON SPECTRUM-LINE REVERSAL TEMPERATURE MEASUREMENTS
NPL-AERO-1018 N64-14237 06-23

FORCE, PRESSURE, HEAT TRANSFER, & SHOCK SHAPE IN HOTSHOT TUNNEL & SHOCK TUNNEL
AEDC-TDR-64-1 N64-14974 06-02

SHOCK-TUBE HEAT TRANSFER EXPERIMENTS TO MEASURE THERMOCONDUCTIVITY OF ARGON FROM 700-8600 DEG K.
NASA-TN-D-2117 N64-14985 06-13

FREE PISTON COMPRESSION FOR DRIVING HIGH ENTHALPY SHOCK TUBES - MINIMIZATION OF HEAT LOSS
NASA-CR-53059 N64-15790 07-11

DESIGN, PERFORMANCE, AND OPERATION OF HYPERSONIC GUN TUNNEL
CP-3 N64-15853 07-10

PISTON MOTION IN HYPERSONIC GUN TUNNEL - MICROWAVE MEASUREMENT
CP-4 N64-15926 07-08

TRIPLE-DIAPHRAGM TYPE SHOCK TUNNEL DRIVEN BY COMPRESSED AIR
CP-1 N64-15985 07-10

SHOCK TUBE USED AS STEP FUNCTION GENERATOR
N64-16242 08-10

TEST DURATION MEASUREMENTS IN ARC DRIVEN HYPER-VELOCITY SHOCK TUBE
REPT.-1573-2 N64-16440 08-24

LIQUID PROPELLANT SENSITIVITY - CRYOGENIC ADAPTATION OF SHOCK TUBE
IITRI-C602V N64-16658 08-26

ARC SHOCK TUBE MEASUREMENTS OF AERODYNAMIC AND RADIATIVE HEATING AT SUPERORBITAL VELOCITIES
REPT.-1598-1 N64-17335 09-13

SHOCK TUBE SPECTROSCOPIC, ULTRASONIC, AND ELECTRONIC EQUIPMENTS
AFCRL-64-154 N64-18594 11-10

POSSIBLE TYPES OF FLOW WITH CONSTANT PRESSURE BEHIND SHOCK WAVE FRONT IN AIR SHOCK TUBES
FTD-TT-63-309/1&2&4 N64-19197 11-11

DESCRIPTION OF HYPERSONIC SHOCK TUNNEL AND EXPERIMENTAL AND THEORETICAL PROGRAMS IN MAGNETOHYDRODYNAMICS
ARL-64-5 N64-19735 12-24

HIGH ENTHALPY SHOCK TUNNEL FOR PRODUCING HIGH ELECTRON DENSITY PLASMA - ELECTRON RECOMBINATION STUDIES N64-19831 12-24

SHOCK TUBE SYNTHESIS OF NITROGEN FLUORIDES FOR USE AS OXIDIZERS
S-13913 N64-20328 13-07

SHOCK TUBE DEVELOPMENT - DOWNSTREAM IONIZATION OF RARE GASES AND RELAXATION IN TRIATOMIC LINEAR MOLECULAR GASES
TN-130 N64-20422 13-11

SHOCK TUBE THERMAL CONDUCTIVITY
NASA-RP-191 N64-21280 14-13

SHOCK TUBE - DESIGN CRITERIA, INSTRUMENTATION, AND OPERATION N64-21351 14-10

BETATRON, CONVERTER CAMERA, LASER INTERFEROMETER, AND SHOCK TUBE FACILITY FOR PLASMA PARTICLE ACCELERATION STUDY
AFCRL-64-412 N64-21709 15-24

PRECURSOR EFFECTS & SHOCK SEPARATION IN ELECTRIC SHOCK TUBE
DI-82-0321 N64-22108 15-02

SHOCK TUBE MEASUREMENT OF TEMPERATURES AND OSCILLATOR STRENGTHS
AD-433547 N64-22226 15-24

OPTIMUM PERFORMANCE OF BUFFERED SHOCK TUBES
ARL-64-41 N64-22311 15-11

SHOCK TUBE SPECTROSCOPY - MEASUREMENT OF ATOMIC TRANSITION PROBABILITIES
NASA-CR-56473 N64-22423 15-24

SHOCK TUBE FOR PRODUCING SUBSONIC, TRANSONIC AND SUPERSONIC FLOWS FOR AERODYNAMIC TESTING
SSD-TDR-63-32 N64-22620 15-10

HYPERSONIC & SUPERSONIC FLOWS, BOUNDARY LAYERS, STAGNATION REGIONS, PLASMA ACCELERATION, AND SHOCK TUNNEL EQUATION
FTD-TT-63-79/1&2 N64-23676 16-01

EQUATION RELATING THREE VELOCITIES OF GAS FLOW IN SHOCK TUNNEL N64-23683 16-11

STATIC TEMPERATURES IN SHOCK TUNNEL FLOWS
R64SD25 N64-24586 17-13

SEEDING SHOCK WAVES IN ARGON AND HELIUM WITH POTASSIUM AND CESIUM
MT-51 N64-24872 17-24

HIGH PRESSURE REAL GAS DRIVERS AND TAILORING IN SHOCK TUNNEL
NPL-AERO-1088 N64-24923 17-11

EFFECT OF HIGH PRESSURE ON FLOW IN REFLECTED SHOCK TUNNEL
NPL-AERO-1072 N64-25174 17-10

DIGITAL COMPUTER PROGRAM TO CALCULATE PERFORMANCE OF COMBUSTION DRIVEN SHOCK TUNNEL
TN-64-1 N64-25184 17-11

DESIGN AND CONSTRUCTION OF HYPERSONIC SHOCK TUNNEL
REPT.-64-3 N64-25367 17-10

HYPERVELOCITY SHOCK TUNNEL
NASA-CR-56969 N64-25773 17-10

SHOCK TUNNEL STUDIES OF HIGH-ENTHALPY IONIZED AIRFLOWS N64-26137 18-24

TEMPERATURE MEASUREMENTS IN HYPERSONIC SHOCK TUNNEL N64-26138 18-13

SHOCK TUBE MEASUREMENT OF OXYGEN RECOMBINATION RATE N64-26149 18-26

HYPERSONIC SHOCK TUNNEL FACILITIES EMPLOYING HEATED DRIVER GASES
NASA CR-56517 N64-26582 18-10

SHOCK WAVE WITHIN ELECTROMAGNETIC SHOCK TUBE
N64-28490 20-11

EFFECT OF HIGH PRESSURE ON FLOW IN REFLECTED SHOCK TUNNEL - SIMULATION OF HYPERSONIC REENTRY CONDITIONS
ARC-CP-730 N64-28963 20-11

THERMOCONDUCTIVITY OF NOBLE GASES IN CONSTANT AREA SHOCK TUBE
NASA-CR-58283 N64-29001 20-13

RADIATIVE HEAT TRANSFER GAUGE FOR HYPERVELOCITY SHOCK TUBE
NASA-CR-58668 N64-29007 20-15

PRESSURE-TIME HISTORY IN HIGH PRESSURE SHOCK TUBE DRIVER AND EFFICIENCY OF ENERGY INPUT OF WAVE HEATING PROCESS
NASA-CR-58490 N64-29229 21-11

CONSTRUCTION AND INSTALLATION OF SHOCK TUBE FACILITY

AFCRL-64-657 N64-29304 21-10

LUMINOUS SHOCK TUBE FOR SPECTROSCOPIC INVESTIGATION OF HIGH TEMPERATURE GASES
AFCRL-64-257 N64-29429 21-11

USE OF SHOCK TUBES IN STUDY OF CHEMICAL REACTIONS AND HYPERSONIC FLOW
PSU-11-P N64-29798 21-11

DECOMPOSITION KINETICS OF HYDRAZINE USING SINGLE-PULSE SHOCK TUBE
PSU-12-P N64-29799 21-26

MAGNETOHYDRODYNAMIC INTERACTIONS IN SHOCK TUNNEL FLOW
NASA-CR-58823 N64-30509 22-24

BIBLIOGRAPHY ON SHOCK TUBE APPLICATIONS IN CHEMISTRY AND PHYSICS
MLM-1189 N64-30625 22-07

STATE OF GAS BEHIND REFLECTED SHOCK IN REGION AROUND END OF SHOCK TUBE N64-30672 22-11

INDUCED VOLTAGE TECHNIQUE FOR EXPLODING PLASTIC PROJECTILE IN BALLISTIC SHOCK TUNNEL
NOLTR-62-173 N64-31075 22-01

PREPARATION OF GAS MIXTURES FOR SHOCK TUNNEL TESTS OF CARBON DIOXIDE FORMATION - CHEMICAL KINETICS
GDA-DBE-64-044 N64-31113 22-07

HEAT TRANSFER MEASUREMENTS ON FLAT PLATE IN HYPERSONIC SHOCK TUNNEL
NOLTR-61-91 N64-31667 23-13

CAPABILITIES AND LIMITATIONS OF HYPERSONIC SHOCK TUNNEL FACILITIES AND INSTRUMENTATION
NOLTR-63-259 N64-31670 23-10

INSTRUMENTATION AND CALIBRATION OF HYPERSONIC SHOCK TUNNEL - LOADING SYSTEM IN COMBUSTION CHAMBER
REPT.-64-5 N64-32802 24-10

FLOW IN LOW PRESSURE HYPERSONIC SHOCK TUNNEL USING ELECTRON BEAM DENSITOMETER
NAL-TR-377 N64-32933 24-11

COMBUSTION TEST TO DEVELOP SPARK IGNITION SYSTEM OF STOICHIOMETRIC OXYGEN-HYDROGEN AND HELIUM MIXTURE FOR HYPERSONIC SHOCK TUNNEL
REPT.-64-12 N64-33071 24-26

SHOCK TUBE DRIVEN MOLECULAR BEAM - UNSTEADY EFFECT ON SKIMMER AND STAGNATION HEAT TRANSFER
NASA-CR-58958 N64-33283 24-11

THERMAL DECOMPOSITION OF HYDRAZINE USING SHOCK TUBE COUPLED TO MASS SPECTROMETER
AR-35-63 N64-33413 24-26

THERMAL DECOMPOSITION OF NITROGEN FLUORINE RADICAL IN SHOCK TUBE COUPLED TO TIME-OF-FLIGHT MASS SPECTROMETER
AR-IS-64 N64-33494 24-07

SHOCK TUBE TESTS FOR LIQUID PROPELLANT SENSITIVITY
IITRI-C6024-12 N64-33573 24-26

TURBULENT HEAT TRANSFER, LEAKAGE, AND PRESSURE TESTS ON X-20 AIRCRAFT IN HYPERSONIC SHOCK TUNNEL
D2-80910 N64-33574 24-13

PERFORMANCE CHARACTERISTICS AND TEST PROGRAM FOR HYPERVELOCITY SHOCK TUBES
NASA-CR-56390 N64-33776 24-10

SHOCK WAVE
HYPERSONIC AREA RULE FOR BLUNT BODIES - MASS OF GASES CONCENTRATED IN THIN LAYER CONTIGUOUS TO SHOCK WAVE
FTD-TT-62-1311/1&2&4 N64-10248 01-02

SHOCK WAVE FORMATION ON INTERACTION BETWEEN SOLAR WIND & GEOMAGNETIC FIELD - EFFECT OF WEAK INTERPLANETARY MAGNETIC FIELD
NASA-RP-98 N64-11227 02-28

ASYMPTOTIC FLOW PAST BLUNT BODIES AT HYPERSONIC SPEEDS WITH SHOCK WAVE PROFILES
NPL-AERO-1051 N64-11238 02-03

THICKNESS OF SHOCK WAVE IN SOLAR WIND, LIMITS OF LARMOR RADIUS, AND POSSIBILITY OF SHOCK CAUSED BY MOON N64-11720 03-24

ALKALI METAL VAPOR ARC TUNNEL TO STUDY COLLISION PROCESSES IN GASES BEHIND STRONG SHOCK WAVES
NOLTR-63-105 N64-11745 03-15

SHOCK-WAVE SHAPES AND STAGNATION-POINT LOCATIONS FOR SPHERICALLY BLUNTED BODIES AT LARGE ANGLES OF ATTACK
NASA-TN-D-1980 N64-11897 03-02

CHARGED PARTICLE ACCELERATION IN PERPENDICULAR MAGNETOHYDRODYNAMIC SHOCK WAVE
AFOSR-2249 N64-12075 03-23

SHOCK WAVES FROM CONDENSED EXPLOSIONS IN AIR AT VARIOUS DENSITIES AND AMBIENT PRESSURES
NOLTR-63-13 N64-12261 03-24

STRESS OF SHOCK AND VIBRATION WAVES ON STRUCTURES ABOVE AND BELOW GROUND
AD-422046 N64-12407 04-01

SHOCK OF SURFACE BLAST OF NUCLEAR WEAPON ON UNDERGROUND STRUCTURES N64-12417 04-23

ATTENUATION FLOW OF SHOCK WAVE IN CHANNELS N64-12418 04-02

ITERATIVE SOLUTION OF GOVERNING EQUATION FOR INVISCID, RADIATION RESISTED SHOCK WAVES
NASA-TN-D-2128 N64-12690 04-11

EXACT SOLUTIONS FOR WINGS HAVING ONE AND TWO ATTACHED PLANE SHOCK WAVES AT HYPERSONIC SPEEDS
RAE-TRANS-1044 N64-12904 04-03

DYNAMICS OF GASES & PLASMAS, AERODYNAMICS OF SUBSONIC VEHICLES, FATIGUE IN METALS AND METAL STRUCTURES, BLAST WAVE PHENOMENA
AD-423576 N64-12972 04-23

HEAD SHOCK WAVE IN FRONT OF EARTH AND ITS EFFECT ON RADIATION BELTS
JPRS-22759 N64-13164 04-23

SHOCK-WAVE PROFILE COMPUTATION USING KROOK COLLISION MODEL EQUATION IN ITERATION SCHEME STARTING FROM NAVIER-STOKES SOLUTION
NASA-CR-53019 N64-13268 04-11

EFFECTS OF SPECIES DIFFUSION AND HEAT CONDUCTION ON NONEQUILIBRIUM FLOWS BEHIND STRONG SHOCK WAVES
NASA-CR-55178 N64-13333 04-11

SHOCK-TUNNEL MEASUREMENTS OF UNDERSURFACE PRESSURE AND SHOCK ANGLE ON NONWEILER WING COMPARED WITH TWO-DIMENSIONAL FLOW ABOUT WEDGE
ARC-CP-684 N64-13391 04-03

SPALL THRESHOLDS IN COPPER IN RELATION TO STRESS-TIME IN FAILURE REGION & METHOD OF INDUCING SHOCK WAVES N64-13446 05-25

SPHERICAL SHOCK WAVES AND CAVITY FORMATION IN METALS WITH HYPERVELOCITY IMPACT N64-13526 05-11

PROPERTIES OF SPHERICAL SHOCK WAVES CAUSED BY HYPERVELOCITY IMPACT N64-13527 05-23

NONEQUILIBRIUM EXPANSION FLOW OF DISSOCIATED OXYGEN GENERATED BY SUPERSONIC SHOCK WAVE AROUND A CORNER
UTIA-91 N64-13964 05-25

PRESSURE TRANSDUCER FOR MEASURING SHOCK WAVE PROFILES
DASA-1414 N64-14033 05-19

TERRESTRIAL MAGNETOSPHERIC INTERACTION WITH SOLAR WIND & SHOCK WAVES
NASA-CR-55342 N64-14181 06-21

KINETIC EQUATION FOR INTERACTING SHOCK WAVES IN NONEQUILIBRIUM RAREFIED PLASMA
FTD-MT-63-96/1&2&3&4 N64-14380 06-24

SHOCK AND BLAST RESEARCH
SES-SP-34 N64-14798 06-26

MAGNITUDE OF FLOW FIELDS DIRECTLY BEHIND OR NEAR FORKLIKE SHOCKS IN NEAR-SONIC RANGE
DVL-294 N64-15028 07-11

COMPUTER PROGRAM FOR SOLUTION OF NORMAL SHOCK WAVES IN IDEAL GAS MIXTURES
LA-2980 N64-15179 07-20

CHEMICAL RELAXATION BEHIND NORMAL SHOCK WAVES IN CARBON DIOXIDE INCLUDING INTERDEPENDENT DISSOCIATION AND IONIZATION PROCESSES
NASA-TN-D-2131 N64-15221 07-07

TIME DEPENDENT NONLINEAR FORMULATION OF SHOCK PROPAGATION IN AN ORGINALLY ISOTROPIC MEDIUM
NOLTR-63-219 N64-15520 07-23

NUMERICAL METHODS FOR CALCULATION OF TWO-DIMENSIONAL TIME DEPENDENT INVISCID FLOWS CONTAINING SHOCKS
NYO-10433 N64-15613 07-11

THERMAL EFFECTS OF SHOCKWAVE TURBULENT BOUNDARY LAYER INTERACTION N64-15641 07-13

SHOCK ATTENUATION EFFECT ON REFLECTED SHOCK WAVES - GAS DYNAMIC PHENOMENA
CP-2 N64-15986 07-11

DETERMINATION OF SHOCK WAVE SENSITIVITY BY DETONATION TRANSFER FROM EXPLOSIVES THROUGH COPPER BARRIERS TO EXPLOSIVES
RSIC-122 N64-16041 07-26

PROPAGATION OF SPHERICAL SHOCK WAVE THROUGH ALUMINUM-GLASS INTERFACE N64-16261 08-23

SHOCK WAVE AMPLIFICATION DURING PASSAGE THROUGH FLAME FRONT
FTD-TT-63-532/1&2 N64-16375 08-26

GAS FLOW IN SHOCK WAVE RESULTING FROM ELECTRIC DISCHARGE N64-16601 08-24

SHOCK-WAVE INDUCED, HIGH SPEED PLASMA STUDY, TO DEVELOP VELOCITY MEASUREMENT FOR REENTRY VEHICLES
ATD-TDR-63-4108 N64-16660 08-27

ARGON AND NITROGEN SHOCK WAVE THICKNESSES
AVCO-EVERETT RES. REPT.-172 N64-16865 08-11

INDUCED PRESSURES AND SHOCK SHAPES ON BLUNT CONES IN HYPERSONIC FLOW - EXTENSION OF BLAST-WAVE PARAMETERS
NASA-TN-D-2182 N64-17158 09-02

IDEAL-GAS TABLES FOR OBLIQUE-SHOCK FLOW PARAMETERS IN AIR AT MACH NUMBERS FROM 1.05 TO 12.0
NASA-TN-D-2221 N64-17160 09-11

INTENSITY OF HYDROXYL CHEMILUMINESCENCE FROM HYDROGEN PEROXIDE REACTION WITH SHOCK WAVES
NASA-RP-145 N64-17709 09-24

SHOCK WAVE PROPAGATION ON ONE-DIMENSIONAL FLOW OF IDEAL COMPRESSIBLE FLUID N64-17758 09-23

SHOCK WAVES IN INTERPLANETARY PLASMA
NASA-CR-53364 N64-17817 09-28

SHOCK, PARTICLE VELOCITIES, AND BLAST WAVE EFFECTS OF PELLET IMPACT ON WAX TARGETS
BRL-1226 N64-17842 10-23

DISSOCIATION, IONIZATION, AND INTERMOLECULAR FORCES EFFECT ON SHOCK WAVES IN IMPERFECT AIR - GAS DYNAMICS
AEDC-TDR-64-43 N64-18039 10-23

SODIUM-LINE METHOD FOR MEASURING TEMPERATURE DISCREPANCY BEHIND SHOCK WAVES
ARC-CP-712 N64-18156 10-24

CRATER FORMATION IN SEMI-INFINITE TARGETS USING BLAST WAVE THEORY - SHOCK WAVE PROPAGATION IN SOLIDS
NASA-CR-52427 N64-18489 10-23

SHOCK WAVE OR SPECIES SEPARATION IN SMALL SUPERSONIC JETS OF GAS MIXTURES - SQUID PROJECT
N64-18894 11-11

SUPERSONIC AND HYPERSONIC FLOW BEHIND CURVED SHOCK WAVES
REPT.-64-2 N64-19027 11-02

SHOCK-EXPANSION METHOD FOR CALCULATING STATIC AND DYNAMIC STABILITY OF AIRFOILS & AXISYMMETRIC BODIES AT HYPERSONIC SPEEDS
C-910188-4 N64-19185 11-02

GEOMETRIC METHOD FOR PLOTTING DIVERGENT SHOCK WAVES IN MAGNETOHYDRODYNAMICS
FTD-TT-63-198/1&2&4 N64-19196 11-24

OBLIQUE SHOCK WAVE PARAMETER CORRELATION FOR SOME SPECIFIC HEAT RATIOS WITH APPLICATION TO REAL GAS FLOWS
NASA-TR-R-171 N64-19235 11-11

NUMERICAL ANALYSIS FOR SOLVING BLUNT BODY PROBLEM IN HYPERSONIC FLOW BEHIND AXISYMMETRIC SHOCK WAVE
CARDE-TR-480 N64-19288 11-02

SHOCK WAVES IN TWO-DIMENSIONAL MAGNETOHYDRODYNAMIC FLOW OF INVISCID, COMPRESSIBLE GAS
MF-38 N64-19300 12-24

INTERACTION OF OBLIQUE SHOCK WAVES OF VARIED INTENSITIES IN HYPERSONIC FLOW
ARL-63-146 N64-19391 12-11

HYPERVELOCITY IMPACT ON TRANSPARENT PLASTICS - PROJECTILE CRATERING, SHOCK WAVES, & FRACTURING
AEDC-TDR-64-49 N64-20035 13-23

FAST LUMINOUS FRONTS IN ELECTROMAGNETIC SHOCK TUBE AND ERROR IN PAXTON AND FOWLER THEORY
AD-437190 N64-20086 13-24

MAGNETIC COMPRESSION EXPERIMENT FOR STUDY OF SHOCK WAVE STRUCTURES
AFCRL-64-293 N64-20091 13-24

WEAK MACH REFLECTION - VON NEUMANN SHOCK THEORY
NRC-460 N64-20339 13-20

NORMAL AND OBLIQUE SHOCK WAVE PARAMETERS WITH DISSOCIATED AMBIENT CONDITIONS IN HYPERSONIC FLOW
U-RD-6333 N64-20697 13-11

PROPOSED STUDY OF COLLISION PROCESSES LEADING TO ELECTRONIC EXCITATION AND IONIZATION BEHIND SHOCK WAVES
NOLTR-63-33 N64-21089 14-23

EQUILIBRIUM CONCENTRATIONS, THERMODYNAMIC, AND NORMAL SHOCK PROPERTIES FOR PURE AND IMPURE AIR
GD/A-63-0174 N64-21167 14-24

EXCITATION OF PLASMA OSCILLATIONS BY SHOCK WAVES
AFCRL-63-577 N64-21292 14-24

THIN COLD WIRE FOR MEASURING HEAT TRANSFER RATES WITHIN PLANE SHOCK WAVE
SRL-64-1 N64-21339 14-15

PRESSURE GAUGE WITH ONE-TENTH MICROSECOND RISETIME FOR SHOCK WAVE REFLECTION STUDIES
N64-21374 14-15

NUMERICAL PROCEDURE FOR SOLVING NAVIER-STOKES

EQUATION AND APPLICATION TO ONE-DIMENSIONAL FLOW FIELD IN SUPERSONIC NOZZLE WITH NORMAL SHOCK WAVE
REPT.-63SD891 N64-21567 15-20

TRANSMISSION STUDY OF SHOCK WAVES GENERATED BY HYPERVELOCITY IMPACT ON METALLIC AND NON-METALLIC TARGETS
AD-439301 N64-21576 15-23

RADIATION-INDUCED SHOCK WAVES EXTERNAL TO QUARTZ DISCHARGE TUBES CAUSING SHATTERING
NRL-MR-1509 N64-22217 15-24

PRECURSOR ELECTRON DENSITY IN FRONT OF SHOCK WAVES OF HYPERSONIC PROJECTILES
TR63-217E N64-22288 15-11

GAS DYNAMIC PROPERTIES FOR INCIDENT AND REFLECTED SHOCK WAVES IN IONIZED NITROGEN
AEDC-TDR-64-104 N64-22298 15-24

RESONANCE ABSORPTION SPECTROPHOTOMETRY OF HYDROGEN ATOM BEHIND SHOCK WAVES
NASA-CR-56290 N64-22481 15-11

STRUCTURE OF RADIATION-RESISTED SHOCK WAVES WITH VIBRATIONAL NONEQUILIBRIUM
SSD-TDR-64-78 N64-22558 15-11

MECHANISM AND LIMITS OF SPONTANEOUS CHAIN IGNITION OF HYDROGEN-OXYGEN MIXTURES IN SHOCK WAVES
JPRS-25103 N64-22737 16-23

SHOCK WAVE PROPAGATION IN SUPERSONIC FLIGHT - SONIC BOOM
TP-118 N64-23150 16-02

EMF OF THERMOCOUPLES COMPRESSED BY SHOCK WAVE
FTD-TT-63-1057/1&2 N64-23314 16-11

SUPERCRITICAL BREAKUP OF DROPLETS AND FLUID STREAM OF WATER BY DYNAMIC PRESSURE OF AIR SHOCK WAVE
N64-23653 16-11

RADIO EMISSION FROM SHOCK WAVES
N64-23859 16-28

NAVIER-STOKES CALCULATION OF ARGON SHOCK WAVE STRUCTURE
TR-5 N64-24880 17-20

INTERACTION OF OBLIQUE SHOCKS AND EXPANSION WAVES WITH JET BOUNDARY MIXING ZONE FOR FLUID AMPLIFIER STUDY
N64-25258 17-11

SHOCK WAVE RADIO EMISSION NEAR EARTH AND IN INTERPLANETARY GAS
NASA-TT-F-8699 N64-25278 17-05

RESPONSE OF THERMOCOUPLE JUNCTION TO SHOCK WAVES IN COPPER
N64-25348 17-23

ONE-DIMENSIONAL, STEADY STATE STRUCTURE OF SHOCK WAVE IN IONIZED PLASMA IN ABSENCE OF EXTERNAL MAGNETIC OR ELECTRIC FIELDS
AD-441795 N64-25729 17-24

UNSTEADY SHOCK WAVE PROPAGATION IN RELAXING GAS
N64-26128 18-11

CHEMICAL AND RADIATION EFFECT IN HYPERSONIC AERODYNAMICS
N64-26148 18-02

INFLUENCE OF RADIANT ENERGY TRANSFER ON ONE DIMENSIONAL SHOCK WAVE PROPAGATION
N64-26336 18-13

PHOTOIONIZATION AHEAD OF STRONG SHOCK WAVES
N64-26337 18-11

BLAST WAVE THEORY APPLIED TO METEOROID IMPACTS WITH SPACE VEHICLES
NASA-CR-58059 N64-26362 18-05

SHOCK WAVE STRENGTHENING OF IRON-BASE ALLOYS
R-5413-3 N64-26946 18-18

BREAKUP OF VARIOUS LIQUID JETS BY SHOCK WAVES AND APPLICATIONS TO RESONANT COMBUSTION
NASA-TN-D-2423 N64-27202 19-11

EXPLOSIVE COMBUSTION, PULSATING SHOCK-INDUCED COMBUSTION, AND RELATED STUDIES IN REACTION KINETICS, IGNITION DELAYS, AND SHOCK WAVES
ATD-P-64-49 N64-27342 19-2

RELAXATION OF VIBRATIONAL ENERGY OF AIR MOLECULES BEHIND DIRECT SHOCK WAVE FRONT
NASA-TT-F-8933 N64-27364 19-11

DIFFRACTION OF SHOCK WAVE MOVING INTO REGION OF UNIFORM FLOW
SSD-TDR-64-92 N64-27490 19-11

EXPLOSIVE SHOCK WAVES EFFECT ON REFRACTORY ELEMENT PROPERTIES - HIGH ENERGY RATE-FORMING
N64-27586 19-1

DIFFRACTION OF OBLIQUE SHOCK WAVES
ARC-CP-612 N64-28031 20-11

PREDICTION OF BLAST WAVE FLOW PATTERNS - STRUCTURE AND PROPAGATION OF BLAST WAVES N64-28098 20-11

ANALYSIS OF CHEMICAL BOUNDARY LAYER BEHIND MOVING SHOCK WAVE IN DIATOMIC GASES N64-28102 20-11

SHOCK WAVE PROPAGATION AND TRANSITION TO DETONATION IN EXPLOSIVES
BRL-1250 N64-28153 20-11

SPECTROGRAPHIC STUDY OF CONTAMINATION-INDUCED LUMINOSITY BEHIND BLUNT BODY SHOCK WAVE
NASA-TN-D-2449 N64-28334 20-11

SUPERSONIC GAS FLOW OVER THIN PLATE WITH DETACHED SHOCK WAVE N64-28471 20-11

SHOCK WAVE WITHIN ELECTROMAGNETIC SHOCK TUBE
N64-28490 20-11

SHOCK TRANSITION CONDITIONS FOR NORMAL AND OBLIQUE SHOCKS IN AIR WITHIN RANGE OF OXYGEN DISSOCIATION
NASA-CR-58498 N64-28753 20-11

MAGNETOHYDRODYNAMICS - EQUATIONS OF MOTION, GENERAL PROPERTIES, BOUNDARY VALUE PROBLEMS, SOUND WAVES, AND SHOCK WAVES
NASA-CR-58347 N64-28832 20-2

MULTIPLE TEMPERATURE BOUNDARY LAYER BEHIND REFLECTED SHOCK WAVE IN HIGHLY IONIZED ARGON
NASA-CR-58041 N64-28924 20-2

PLANE GAS DYNAMIC AND TRANSVERSE MAGNETOGASDYNAMIC SHOCK WAVE IN FULLY IONIZED HYDROGEN
NASA-CR-58338 N64-28940 20-2

SONIC BOOM THEORY, TEST DATA COMPILATION, AND SHOCK WAVE NOISE PROBLEMS OF SUPERSONIC TRANSPORTS
AD-602173 N64-28984 20-11

HYDRODYNAMICS OF EXPLOSIONS - SHOCK WAVE PROPAGATION, EXPLOSION IN UNBOUNDED MEDIUM, BOUNDARY PROBLEMS, & PROBLEM OF EXTERNAL FORCES
FTD-TT-63-381/1&2, N64-29321 21-11

THEORETICAL STUDY OF WAVE PROPAGATION BY EXPLOSION IN SPHERICAL CAVITY IN METAL
QPR-9 N64-29561 21-33

MEASUREMENT OF CHAPMAN-JOUGUET PRESSURES AND REACTION ISENTROPIC EXPONENTS OF PURE AND MIXED EXPLOSIVES FROM SMEAR CAMERA SHADOWGRAPHS OF CYLINDRICAL SHOCK WAVES IN WATER
NOLTR-64-58 N64-29864 21-11

ORDINARY DIFFERENTIAL EQUATIONS FOR AXISYMMETRIC FLOWS OVER CONES OF LIGHTHILL DISSOCIATING GAS UNDER THERMODYNAMIC EQUILIBRIUM
DI-82-0350 N64-30044 21-11

MASS SPECTRAL STUDY OF KINETICS BEHIND SHOCK WAVES - THERMAL DISSOCIATION OF CHLORINE
DOW-AR-25-63 N64-30201 21-4

ATTENUATION OF STRONG PLANE SHOCK PRODUCED IN SOLIDS BY HYPERVELOCITY IMPACT

DIT-125-5 N64-30203 21-33

TRANSDUCERS FOR TRANSIENT HIGH PRESSURE MEASUREMENTS - SHOCK IMPEDANCE MATCHING OF PIEZORESISTIVE GAUGE INSULATOR TO SALT ENVIRONMENT
AD-442689 N64-30204 21-15

SHOCK FORMATION AND GROWTH BY TRANSONIC NONSTEADY MOTION OF VEHICLE IN TUBE N64-30410 22-02

INTERSECTION OF REAL GAS SHOCK WAVES WITH WEAK VORTEX SHEETS, AND LAMINAR BOUNDARY LAYER SOLUTION WITH REAL GASES
NASA-CR-56413 N64-30503 22-11

PRESSURE TRANSDUCER FOR SHOCK WAVE PROFILE MEASUREMENT
PR-34 N64-31096 22-15

DYNAMICS OF IONIZING SHOCK WAVES - TRANSVERSE SHOCKS
REPT.-7 N64-31329 22-24

THERMODYNAMIC DATA INTERPOLATIONS AT CONSTANT ENTROPY FOR IMPERFECT AIR - COMPUTING NORMAL SHOCK PROPERTIES
AEDC-TDR-64-183 N64-31371 23-13

BIBLIOGRAPHY ON BLAST AND SHOCK WAVES MAINLY FROM NUCLEAR REACTIONS
TDCK-30050-S1 N64-32017 23-11

PHOTOMETER MEASUREMENTS OF CONTINUUM RADIATION EMITTED FROM HIGH TEMPERATURE AIR IN EQUILIBRIUM REGION BEHIND INCIDENT AND REFLECTED SHOCK WAVES
AVCO-EVERETT RES. NOTE-486 N64-32072 23-11

STRENGTHENING IRON-BASE ALLOYS BY SHOCK WAVES
R-5413-1 N64-32147 23-18

SHOCK WAVE AND METEORITIC DAMAGE CONTROL IN SELF-SEALING STRUCTURES OF SPACE VEHICLES
NASA-CR-120 N64-32434 23-34

MAGNETOHYDRODYNAMIC CHARACTERISTICS AND SCHOCK WAVES
RR-185 N64-32612 23-24

ATMOSPHERIC EFFECTS ON SONIC BOOMS
NASA-CR-58843 N64-32891 24-23

SHOCK TUBE METHODS TO MEASURE ELECTRIC CONDUCTIVITY OF GAS IONIZED BY SHOCK WAVE PASSAGE N64-32939 24-11

SHOCK WAVE DISTURBANCES BY SOUND WAVES AND TEMPERATURE FLUCTUATIONS
ARC-CP-194 N64-32944 24-23

THEORY AND RESULTS OF SHOCK-INDUCED TRANSITION - GNOME PROJECT
PNE-112F, PT. III N64-33369 24-33

UNSTEADY SPATIAL FLOW OF COMPRESSIBLE FLUIDS - WING OF FINITE SPAN IN PRESENCE OF MOVING SHOCK WAVE
NASA-TT-F-8983 N64-33390 24-03

SHOCK WAVE RELATIONS IN TERMS OF MACH NUMBER OF INCIDENT SHOCK FRONT
PMMP-175 N64-33478 24-11

OVERPRESSURE IN REFLECTED SHOCK WAVES
PMMP-160 N64-33581 24-11

NUMERICAL COINCIDENCE IN SHOCK WAVE THEORY
PMMP-174 N64-33736 24-11

OBLIQUE SHOCK-WAVE ANGLE CHARTS FOR PERFECT GAS REGIME
NASA-CR-59341 N64-33774 24-11

SHOCK WAVE ATTENUATION
SHOCK WAVE ATTENUATION IN CHANNELS OF VARIOUS CONFIGURATIONS
ARC-R&M-3321 N64-10015 01-11

PLATE PELLET METHOD OF SHOCK WAVE ATTENUATION AND TARGET DAMAGE BY EXPLOSIVE GENERATED SHOCK WAVES
AD-293457 N64-32189 23-33

SHOCK WAVE INTERACTION
CALCULATING AXIAL POSITIONS AND SIZE OF MACH DISKS AND MIXED FLOWS DOWNSTREAM OF DISKS IN UNDER-EXPANDED, INVISCID JETS
GD/A-DBE-64-008 N64-18358 10-02

INTERACTION BETWEEN SHOCK WAVE IN ELASTOPLASTIC MEDIUM AND NONRIGID WALL
FTD-TT-63-360/1&2&4 N64-19199 11-23

DIFFERENTIAL EQUATIONS FOR HYDRODYNAMIC PROBLEM OF SHOCK WAVES AND TWO RAREFACTION WAVES MOVING IN OPPOSITE DIRECTIONS
LA-3007 N64-19282 11-24

THERMAL SHOCK WAVE INTERACTION IN EQUILIBRIUM AIR
KN-689-64-5 N64-21409 14-27

SIMULATION OF MOVING SHOCK WAVE INTERACTION WITH HYPERSONIC SHOCK WAVE
FDL-TDR-64-9 N64-21444 14-23

TWO-DIMENSIONAL HYDRODYNAMIC HOT SPOT FORMED BY SHOCK WAVE INTERACTION WITH SPHERICAL VOID IN NITROMETHANE
LA-3077 N64-23890 16-11

BOUNDARY LAYER-SHOCK WAVE INTERACTIONS IN SUPERSONIC SEPARATED FLOW AND REATTACHED LAMINAR FLOW
TR-3 N64-25354 17-11

COMPUTER CODE FOR SIMULATING INTERACTION BETWEEN REENTRY VEHICLE AND SHOCK WAVE FROM NUCLEAR EXPLOSION - HYDRODYNAMICS
TO-B-64-10 N64-25958 18-11

ANALOGY OF SHOCK WAVE INTERACTION TO INTERACTION OF SHOCK WAVE WITH WALL SHOWN BY HIGH SPEED PHOTOGRAPHY
FTD-MT-64-19 N64-30151 21-24

SHOE
S CLOTHING

SHORAN DISTANCE
S POSITIONING

SHORT WAVE RADIATION
OUTGOING LONG & SHORT WAVE RADIANT FLUXES ONTO SURFACES IN IONOSPHERE N64-22033 15-28

SIGNAL DETECTION IN PRESENCE OF NOISE IN SHORT WAVE RADIATION RANGE N64-24639 17-09

SPECTRAL DISTRIBUTION OF SHORTWAVE RADIATION
NASA-TT-F-213 N64-24835 17-12

SHORT WAVELENGTH REJECTION FILTER TRANSMITTING IN 8 TO 14 MICRON WAVELENGTH REGION
WRE-TN-CPD-87 N64-28513 20-07

SHOWER
FORECASTING AMOUNT OF AIR-MASS SHOWER PRECIPITATION BY LAYER METHOD N64-11843 03-21

EFFECT OF HIGH ENERGY PRIMARY COSMIC RADIATION ON AIR SHOWERS
AD-442210 N64-32977 24-28

SHRINKAGE
MIXED BOUNDARY VALUE PROBLEMS - SHRINKAGE & STRESS ANALYSIS OF PROPELLANT GRAINS
AD-600546 N64-21466 14-20

GROWTH AND SHRINKAGE RATES OF NONEQUILIBRIUM ICE FORMATIONS
CRREL RES. REPT.-145 N64-33108 24-12

SHROUD
SHROUD EXCITATION BY PRESSURE OSCILLATION OF TURBULENT FLOW IN SUBSONIC JET
NPL-AERO-1064 N64-14238 06-23

RESPONSE TO ACOUSTIC EXCITATION OF STRUCTURAL PANELS FROM SATURN ENGINE SHROUDS

NASA-CR-53394 N64-18103 10-33

EVAPORATIVE COOLING SHROUD FOR SOUNDING ROCKET NOSE CONE
BRL-1547 N64-21023 14-13

AERODYNAMIC LOADING ON SHROUD OF FINITE-BLADED DUCTED PROPELLER
TAR-TR-639 N64-22541 15-03

LOCAL PRESSURE COEFFICIENT DISTRIBUTIONS ON SATURN IB AND SATURN S-IB TAIL SHROUDS AT SUPERSONIC SPEEDS
TB-AE-64-10 N64-29595 21-31

SHROUDED BODY
AXISYMMETRIC POTENTIAL FLOW THROUGH SHROUDED IMPULSE DISK IN STATIC CASE - SLIPSTREAM CONTRACTION
DTMB-1857 N64-28525 20-11

SHROUDED NOZZLE
PRESSURE DISTRIBUTION ON EXTERNAL SURFACES OF NOZZLE, BASE AND SHROUDS OF SATURN I VEHICLE
NASA-TN-D-1962, SUPPL. N64-14063 05-02

SICKNESS
S DISEASE
S RADIATION SICKNESS

QUARTZ CRYSTAL UNITS FOR USE IN SINGLE-SIDEBAND VOICE-COMMUNICATION EQUIPMENT
REPT.-1 N64-21997 15-25

IMPROVING FREQUENCY PRECISION AND STABILITY OF 5 MC SINGLE SIDEBAND QUARTZ CRYSTALS
REPT.-3 N64-29861 21-25

POWER AND BANDWIDTH REQUIREMENTS FOR SINGLE SIDE BAND, FREQUENCY MODULATION, AND PULSE CODE MODULATION SYSTEMS FOR SATELLITE COMMUNICATION
NASA-CR-56538 N64-27390 19-08

SIDEBAND
FABRICATION AND BONDING OF QUARTZ CRYSTALS FOR SINGLE SIDEBAND VOICE COMMUNICATIONS EQUIPMENT
REPT.-2 N64-25618 17-25

SIDELOBE REDUCTION
SIDELOBE REDUCTION AND GAIN CHARACTERISTICS OF PARTIALLY UNIFORM ANTENNA ARRAYS
RADC-TDR-64-243 N64-29817 21-08

THREE-PULSE SIDE LOBE SUPPRESSION TECHNIQUE FOR AIR TRAFFIC CONTROL RADAR BEACON SYSTEM
RD-64-36 N64-32467 23-08

SIEVE
SULFUR DIOXIDE ADSORPTION USING MOLECULAR SIEVES - RECOVERY AND REGENERATION OF SIEVES
BM-RI-6321 N64-10254 01-19

SIEVE AND PRIME PROBLEMS IN NUMBER THEORY FOR COMPUTER PROGRAMMING APPLICATION
NASA-CR-55161 N64-13190 04-20

CRYOSORPTION PUMPING OF HYDROGEN WITH MOLECULAR SIEVES OR CHARCOAL AS ADSORBENTS
AEDC-TDR-64-100 N64-21290 14-23

SIGHT
S BLINDNESS
S EYE

SIGHT LINE
ATMOSPHERIC REFRACTIVE INDEX INHOMOGENITIES AS FUNCTION OF SIGHTLINE ELEVATION
OID-35 N64-13090 04-23

SIGMA 7
MISSION PLAN OF MERCURY-ATLAS 8 SIX-ORBIT FLIGHT OF WALTER SHIRRA IN SIGMA 7 SPACECRAFT
N64-11112 02-01

RADIATION DOSIMETRY ABOARD MERCURY /MA-8/ SPACECRAFT
NASA-TN-D-1862 N64-28320 20-16

SIGNAL

SA ERROR SIGNAL

SA FLARE

SA OPTICAL SIGNAL

SA PSEUDORANDOM SIGNAL

SA RADIO STAR SIGNAL

SA RANDOM SIGNAL

CF BEACON
SEPARATING TWO AMPLITUDE-MODULATED SIGNALS WITH OVERLAPPING SPECTRA IN RECEIVER
JPRS-18802 N64-10644 01-09

SIGNAL REDUCTION INTO LIMITED SPECTRAL FUNCTIONS IN COMMUNICATION THEORY
JPRS-18510 N64-11057 02-08

PROPAGATING ELECTROMAGNETIC SIGNALS AT NORMAL INCIDENCE THROUGH PLASMA SHEATH UPON HYPERSONIC BLUNT-NOSED REENTRY BODIES - COMPUTER PROGRAM
RADC-TDR-63-412 N64-12208 03-02

PERFORMANCE CHARACTERISTICS OF ELECTRODES, SIGNAL MODIFIERS, AND GRAPHIC RECORDING COMPONENTS IN PHYSIOLOGICAL MONITORING SYSTEM
AMRL-TDR-62-98/2/ N64-13872 05-14

INTERFERENCE SIGNAL POWER INPUT TO JAM OR REDUCE PERFORMANCE OF SATELLITE REPEATER
SSD-TDR-63-203 N64-14344 06-08

TESTING NUCLEAR REACTOR INSTRUMENTATION WITH EXPONENTIAL SIGNALS
HW-79127 N64-14884 06-15

RADAR DETECTION OF TARGET COORDINATES WITH BEAMED PULSES AND CONTINUOUS WAVE SIGNALS
N64-15132 07-08

FORMATION OF SIGNAL SPECTRA REFLECTED FROM EARTH SURFACE - RADAR SCANNING WITH CONTINUOUS WAVES
N64-15145 07-08

CIRCUITS FOR SHAPING SIGNALS INTO SQUARE PULSES
N64-20213 13-09

OPTIMIZATION OF SIGNAL WAVEFORMS USING PONTRYAGIN PRINCIPLE
ESD-TDR-64-18 N64-20902 14-08

INFLUENCE OF MULTIPLICATIVE NOISE ON DETERMINATION OF SIGNAL POSITION BY DOUBLE GATE METHOD
DVL-312 N64-21702 15-08

ELECTROMAGNETIC SIGNAL PRODUCED BY LOW-ALTITUDE NUCLEAR EXPLOSIONS
RM-3884-PR N64-21724 15-21

LARGE SIGNAL PHENOMENA IN TRAVELING-WAVE TUBE AND KLYSTON
RADC-TDR-64-108 N64-22277 15-08

BEHAVIOR OF NONLINEAR SIGNAL MIXING
N64-22811 16-09

SIGNAL EMISSION CHARACTERISTICS RELATED TO SEARCH AND TRACKING RADAR INTERFERENCE PREDICTION MODELS
N64-22819 16-09

COMBINED USE OF PULSE ATTRIBUTES IN PROTECTED CIRCULAR SIGNALS
FTD-TT-63-528/16264 N64-23303 16-04

NONLINEAR APERTURE CORRECTION - DISTRIBUTION OF SIGNALS
FTD-TT-62-1726/1&2 N64-23408 16-23

SIGNAL CONVERSION DURING SIMULATION OF DYNAMIC PROPERTIES OF GAS TURBINE ENGINES
N64-23597 16-04

RELATIONSHIP OF PROBABILITY OF BIT ERROR IN PHASE MODULATION SYSTEM TO RECEIVED SIGNAL POWER, NOISE INTENSITY, AND BIT RATE OF SOURCE
NASA-CR-56621 N64-24034 16-20

RADAR REFLECTION PROPERTIES OF BAFFLES AND FENCES FOR SUPPRESSION OF GROUND REFLECTED SIGNAL
N64-24290 17-08

RADAR SELECTION OF MOVING TARGET SIGNALS AND EXTRACTION FROM ENTIRE RECEIVER FIELD
N64-24442 17-09

PULSE TRANSFER FUNCTIONS IN COMPLEX COMMUNICATION TWO-CHANNEL CONTINUOUS SIGNAL SYSTEM
N64-24703 17-09

MAXIMUM AMPLITUDE OF NUCLEAR MAGNETIC RESONANCE SIGNAL IN FLOW-THROUGH PICKUP
FTD-TT-64-297/162 N64-25449 17-24

RADAR ACCURACY AND RESOLUTION IN MULTIPLE-SIGNAL ENVIRONMENT
SEL-63-151 N64-25651 17-08

QUANTIZATION OF SIGNALS WITH NONUNIFORM STEPS BY SUBSTITUTING DISCRETE SIGNAL FOR CONTINUOUS ONE
STL-TRANS-80 N64-25732 17-23

DESIGN OF BANDLIMITED SIGNALS FOR BINARY COMMUNICATION USING SIMPLE CORRELATION DETECTION
TR-400-90 N64-26209 18-08

SIGNAL PROCESSING BY INFINITE CLIPPING FOR IMPROVED COMMUNICATION AGAINST NOISE OR JAMMING
AD-600863 N64-26556 18-08

TWO DIMENSIONAL ANALYSIS FOR LARGE-SIGNAL PHENOMENA IN TRAVELING WAVE TUBES AND KLYSTRONS
RADC-TDR-64-231 N64-26921 18-09

REFRACTION OF SATELLITE SIGNALS
N64-26994 19-12

REFRACTION OF SATELLITE SIGNALS
N64-27039 19-12

APPROXIMATION PROBLEMS IN SIGNAL DESIGN
NASA-CR-58495 N64-28942 20-08

MILLIMETER-WAVE MODULATION AND SIGNAL PROCESSING TECHNIQUES
SSD-TDR-64-52 N64-29581 21-08

DISPERSION, ATTENUATION, AND PROPAGATION OF HIGH FREQUENCY SIGNALS IN IONOSPHERE
RADC-TDR-64-219 N64-29827 21-12

PARAMETERS OF GROUPS OF RANDOM NUMBER OF SIGNALS IN PRESENCE OF NOISE N64-30220 22-08

MULTIPLE ACCESS CAPABILITY OF HARD-LIMITING COMMUNICATION SATELLITE REPEATER WITH SPREAD-SPECTRUM SIGNALS
IDA/HQ-64-2498 N64-30797 22-08

INFORMATION MATRIX AND EQUIVALENT LINEAR MODEL FOR INVESTIGATING ACCURACY AND RESOLUTION OF RADAR SIGNALS
AD-601986 N64-32063 23-08

FREQUENCY DISTRIBUTION OF OPTICAL SIGNAL BY ATMOSPHERIC OPTICAL DOPPLER
TR-135 N64-32766 24-08

CLASSIFICATION OF CONVERTERS OF CURVES INTO ELECTRIC SIGNALS N64-32920 24-08

ALTITUDE OF SCINTILLATION SOURCE IN AURORAL ZONE FROM GEODETIC SATELLITE SIGNAL
AFCRL-64-742 N64-33271 24-12

CHANNEL VOCODER SIGNAL POWER SPECTRUM OF SPEECH ENERGY AVERAGE
ESD-TDR-64-58 N64-33319 24-08

ANALYTICAL AND ANALOG TECHNIQUES FOR REDUCING EXTRANEOUS SIGNALS IN RADAR SCATTERING MEASUREMENTS
FZE-222-8 N64-33411 24-08

UNPOWERED TRANSMITTERS OF DUAL CARRIER BIPOLAR MODULATED SIGNALS
AD-442888 N64-33697 24-08

SIGNAL ANALYSIS
TWO-DIMENSIONAL LARGE-SIGNAL ANALYSIS FOR KLYSTRONS & TRAVELING WAVE TUBES
RADC-TDR-63-519 N64-14496 06-09

COMPUTER PROGRAMS FOR PROCESSING SIGNALS RECEIVED IN RADAR ASTRONOMY
REPT.-64G-4 N64-14837 06-20

EDDY CURRENT - BROADBAND ELECTROMAGNETIC TESTING METHOD FOR EXTRACTION AND SEPARATION OF MULTIPLE PARAMETERS
HW-79553 N64-17269 09-09

SIGNAL GENERATION AND AMPLIFICATION IN ELECTRONIC CIRCUIT
AFCRL-64-514 N64-27496 19-09

SIGNAL DETECTION
TRANSMISSION METHODS, POWER SOURCES, AND SIGNAL DETECTION IN MILLIMETER WAVELENGTH
RE-TR-63-30 N64-12367 03-15

IONOSPHERIC ABSORPTION AND SIGNAL DETECTION OF CISPOLAR AND TRANSPOLAR PROPAGATION PATHS
N64-12424 04-12

CANONICAL RELATIONS FOR ERROR PROBABILITIES AND DISTRIBUTION DENSITIES OF BINARY BAYES DETECTORS AND TWO CLASSES OF SIGNALS PLUS NOISE
AFCRL-63-561 N64-14700 06-20

SIGNAL DETECTION, LASER BEAM PROPAGATION, AND SCATTERING STUDIES IN OPTICAL SPACE COMMUNICATION
NASA-CR-53466 N64-18133 10-11

SIGNAL DETECTION BY HUMAN OBSERVERS - PSYCHOPHYSICS
ESD-TDR-64-174 N64-18588 11-14

ASYMPTOTIC METHOD OF OPTIMUM SIGNAL DETECTION IN GAUSSIAN NOISE
NRC-456 N64-20337 13-20

OBSERVATION AND DECISION PROCEDURES IN SIGNAL DETECTION DEVICES
REPT.-03674-4-T N64-20362 13-08

ANTENNAS AND SIGNAL DETECTION IN SPACE COMMUNICATIONS
ESD-TDR-64-40 N64-20372 13-08

OPTIMIZATION OF SEQUENTIAL SIGNAL DETECTION
AD-433124 N64-21065 14-08

INFLUENCE OF MULTIPLICATIVE NOISE ON DETERMINATION OF SIGNAL POSITION BY DOUBLE GATE METHOD
DVL-312 N64-21702 15-08

EFFECT OF SIGNAL SHAPE ON MAXIMUM PROBABILITY OF DETECTION DURING CORRELATED NOISE
FTD-TT-64-439/164 N64-22162 15-08

SIGNAL OUTPUT DETECTION OF OFF-TUNED PULSED INTERFERENCE N64-22813 16-09

MAXIMUM PROBABILITY OF CHANGE OF SIGNAL EMBEDDED IN INTENSE NOISE, FOR DETECTION AND TRACKING OF SPACECRAFT
D-TDR-64-68 N64-23357 16-08

SIGNAL DETECTION IN PRESENCE OF NOISE IN SHORT WAVE RADIATION RANGE N64-24639 17-09

LINEAR AND NONLINEAR CORRELATORS FOR PSEUDORANDOM SIGNAL DETECTION
NEL-1219 N64-26341 18-08

HETERODYNE SIGNAL DETECTION IN OPTICAL COMMUNICATION
RADC-TDR-64-130 N64-27426 19-08

SIGNAL DETECTION - BINAURAL MASKING DIFFERENCES AT

HIGH FREQUENCIES USING BLACK BOX MODEL
NASA-CR-56720 N64-27809 19-08

MATHEMATICAL MODEL FOR ANTIJAMMING SCHEMES OF COMMUNICATION SYSTEMS - ERROR ANALYSIS FOR TWO METHODS OF COHERENT DETECTION
SSD-TDR-64-74 N64-28162 20-08

EFFECT OF SIMULTANEOUS AUDITORY STIMULATION ON PERCEPTION OF VISUAL SIGNALS
FPRC-1209/B/ N64-29767 21-14

TARGET SIGNAL REALISM IN SIMULATOR TRAINING OF SONAR OPERATORS
NAVTRADEVCEN-1320-1 N64-30895 22-10

COMPUTER PROGRAM TO DETERMINE DIMENSIONALITY OF SIGNAL COLLECTION
RADC-TDR-64-212 N64-30939 22-20

SLOWLY-VARYING CHANNELS AND SIGNAL DETECTION
MRC-488 N64-30971 22-08

PROBABILITY OF DETECTING SIGNALS FROM MISSILE BY RECONNAISSANCE SATELLITE AS FUNCTION OF RECEIVER SENSITIVITY, ANTENNA POLARIZATION, AND MISSILE ORIENTATION
EDL-M403 N64-31155 22-08

ADAPTIVE FILTER FOR DETECTION AND RECOGNITION OF RANDOM BINARY SIGNALS
EERL-7 N64-32062 23-08

PASSIVE DETECTION OF RANDOM NOISE SIGNALS BY RECEIVERS WITH DISTRIBUTED ELEMENTS
R-297 N64-32087 23-08

AUTOMATED FACILITY FOR STUDY OF FORCED CHOICE SIGNAL DETECTION
ESD-TDR-64-383 N64-32942 24-10

SIGNAL GENERATOR
CONTINUOUS WAVE CERENKOV MICROWAVE RADIATION GENERATED BY INTERACTION OF MODULATED FLAT RIBBON ELECTRON BEAM WITH SCALER DIELECTRIC REACTOR
RADC-TDR-64-103 N64-20032 13-25

RECIRCULATOR WITH QUANTIZATION USED AS MEMORY ELEMENT AND GENERATOR OF COMPLEX PERIODIC SIGNALS
FTD-TT-63-981/1&2 N64-21962 15-08

SIX MEGAWATT PULSED RADIO FREQUENCY GENERATOR FOR ION CYCLOTRON RESONANCE PLASMA HEATING
MATT-260 N64-22074 15-06

PERFORMANCE CHARACTERISTICS OF SIDEREAL RATE GENERATOR AND CLOCK
NASA-TN-X-55008 N64-23205 16-15

P-N TUNNEL DIODE JUNCTION STRUCTURE FOR MICROWAVE GENERATION
AL-TDR-64-129 N64-25330 17-09

SOLID STATE DEVICES - SILICON TRANSISTOR AND VOLTAGE TUNED OSCILLATOR FOR RADIO FREQUENCY GENERATOR
QPR-3 N64-25994 18-25

INTEGRATED STANDARDS FOR TELEMETRY - REFERENCE SIGNAL GENERATORS, MULTIPLEXERS, TRANSMITTERS, RECEIVERS, AND MAGNETIC TAPE RECORDERS
ARTC-40 N64-28067 20-08

CALCULATING REGULATOR SCALE FOR RC NETWORK SIGNAL GENERATOR N64-29127 21-15

SOLID STATE MICROWAVE GENERATORS - NEGATIVE RESISTANCE AND CURRENT GAIN
REPT.-5 N64-29419 21-09

SIGNAL MEASUREMENT
PHASE CHANGE BETWEEN PHASE AND DIURNAL VARIATION OF VERY LOW FREQUENCY SIGNALS
NBS-TN-206-1 N64-13941 05-08

PHASE MODULATION MEASURING OR RAPID PHASE CHANGES OF MICROWAVE SIGNAL
MATT-273 N64-31020 22-15

SIGNAL MIXING
SIGNAL MIXER ANALYSIS AND DESIGN N64-22812 16-09

ELECTROMAGNETIC COMPATABILITY AND REDUCTION OF SPURIOUS OUTPUT SIGNALS IN HIGH POWER KLYSTRONS N64-24838 17-09

SIGNAL PROCESSING
SIGNAL PROCESSING TECHNIQUES USING OPTICAL AND ULTRASONIC DEVICES FOR PHASED ARRAY ANTENNAS
CU-40-64-AF-1113-ERL N64-33590 24-08

ELECTRO-OPTICAL SIGNAL PROCESSOR FOR PHASED ARRAY ANTENNAS
CU-29-63-AMC-74/R/-ERL N64-33723 24-08

SIGNAL RECEPTION
THRESHOLD SIGNAL RECEPTION IN PRESENCE OF NOISE
FTD-TT-62-1389/1&2 N64-12846 04-23

OPTIMIZATION CRITERION OF BINARY STATISTICAL DECISION THEORY APPLIED TO PARAMETERS OF SIGNAL AND DISTORTION DISTRIBUTION
E-T-P-64-3 N64-25076 17-23

BINARY-DECIMAL CODE FOR TRANSMITTING TELEMETRY SIGNALS
FTD-TT-64-302/1&2 N64-25452 17-08

THEORY OF REGULATABLE DIRECTIONAL SIGNAL RECEPTION
FTD-TT-64-197/1&2&4 N64-25465 17-09

RECOVERY OF CONTINUOUS SIGNAL FROM RECEIVED DISCRETE DATA N64-25733 17-08

BINAURAL MASKING-LEVEL DIFFERENCES AT HIGH FREQUENCIES N64-26026 18-08

ELECTRO-OPTICAL SIGNAL PROCESSING TECHNIQUES FOR PHASED ARRAY ANTENNAS
CU-35-64-AF-1113-ERL N64-26319 18-08

RECEPTION AND PROPERTIES OF RADIO SIGNALS FROM SOVIET SPACECRAFT
NASA-TT-F-8531 N64-27507 19-08

RECEPTION THRESHOLD FOR WIDEBAND FREQUENCY MODULATION
NASA-TT-F-9043 N64-31562 23-09

SIGNAL RECEPTION FROM INACCESSIBLE TRANSMITTER UNDER MULTIPATH PROPAGATION CONDITIONS
RADC-TDR-64-284 N64-31948 23-08

GLOTRAC TYPE G TRANSPONDER - ELECTROMAGNETIC INTERFERENCE, FILTER REDESIGN, POWER SUPPLY, AND RECEIVED SIGNAL STRENGTH CIRCUIT
GD/A-63-1195/C/, VOL. II N64-31984 23-08

ERROR PROBABILITIES FOR NONORTHOGONAL M-ARY SIGNALS UNDER SYNCHRONIZED PHASE-COHERENT RECEPTION
TR-63-7-RF N64-32080 23-08

APPARATUS FOR SIGNAL RECEPTION AT DISTANT ANTENNAS TO DETERMINE ARRIVAL DIRECTION OF ELECTROMAGNETIC WAVES N64-32900 24-09

SIGNAL TO NOISE RATIO
PULSE FREQUENCY MODULATION TELEMETRY - CODING, NOISE ANALYSIS, FILTERS, SIGNAL-TO-NOISE RATIOS
NASA-TR-R-189 N64-12695 04-08

MODULATED OSCILLATION - STRUCTURE OF NOISE FLUCTUATION AND SIGNAL-TO-NOISE RATIO IN CONTINUOUS WAVES N64-15133 07-08

MINIMUM SIGNAL-TO-NOISE DENSITY RATIOS FOR TRANSMISSION OF TELETYPE AND SPEECH
SSD-TDR-63-215 N64-15825 07-08

IMPROVEMENT OF SIGNAL-TO-NOISE RATIO IN ELECTRO-MAGNETOSTRICTIVE VIBRATORY GYROSCOPE
NASA-CR-53882 N64-19902 12-15

DEVICE FOR CONTINUOUS RECORDING OF SIGNAL-TO-NOISE RATIO
JPRS-24527 N64-20014 13-08

POLARITY COINCIDENCE DETECTOR FOR MEASURING SMALL SIGNAL-TO-NOISE RATIOS
R-178 N64-20153 13-08

PERFORMANCE OF SINGLE & MULTIPLE VOICE RADIO TRANSCRIBERS WORKING UNDER THREE SPEECH-TO-NOISE RATIOS
USAPRO-TRN-135 N64-21741 15-14

MAXIMIZING SIGNAL-TO-NOISE RATIO OF LINEAR RECEIVING ANTENNA ARRAY
TR-65 N64-22287 15-08

ELECTRONIC INDICATOR FOR SIGNAL TO NOISE RATIO PULSED SYSTEM RECEIVER VIDEO OUTPUT
N64-22824 16-09

VIDEO SIGNAL ENHANCER TO INCREASE SIGNAL TO NOISE RATIO FOR OBLIQUE INCIDENCE IONOSPHERIC SOUNDERS
ORTE-1127 N64-23168 16-15

RADAR BACKSCATTER CROSS SECTIONS AND DIFFRACTED FIELDS
N64-24283 17-08

ERROR CORRECTING CODES AT LOW SIGNAL TO NOISE RATIOS
NASA-CR-56789 N64-25689 17-08

SIGNAL TO NOISE RATIO REQUIREMENTS FOR MILITARY COMMUNICATION SYSTEMS OPERATING IN HIGH FREQUENCY BAND
TR-4 N64-27526 19-08

RATIO DETECTOR ARRAY SYSTEM - SWITCHING CIRCUITS OPERATING AT LOW SIGNAL TO NOISE RATIO
NASA-CR-56840 N64-27973 20-09

RADIOMETER SENSITIVITY INCREASE BY NOISE MODULATION OF INPUT SIGNAL
N64-32907 24-08

SIGNAL TRANSMISSION
INTEGRATED PHONOCARDIOGRAPHIC AMPLIFIER FOR TRANSMISSION OF HEART MUSCLE SIGNALS FROM SPACECRAFT
N64-11704 03-16

PREDICTOR TO AID HUMAN OPERATOR IN REMOTE CONTROL OF VEHICLE OPERATING WITH SIGNAL TRANSMISSION LAG
NASA-TN-D-2229 N64-11993 03-22

HIGH FREQUENCY PROPAGATION OF TRANSPOLAR PULSE TRANSMISSIONS OVER ARCTIC PATHS USING IONOSPHERIC APSORPTION MEASUREMENT
UAG-R141 N64-12420 04-01

PATH CIRCUIT ANALYSIS OF SIGNAL TRANSMISSION FOR SEASONAL VARIATION OF GRAPH PLOTS
N64-12423 04-12

FILTERING OF NOISE AND SIGNAL TRANSMISSION IN RECEIVING CIRCUIT CONTAINING NONLINEAR ELEMENTS
N64-15136 07-08

RANGE EQUATION OF EQUIVALENCE OF PULSE AND CONTINUOUS WAVE SIGNAL TRANSMISSION FOR STATIONARY RADAR ANTENNA
N64-15137 07-08

TRANSIENT-FREE AND TIME-STABLE SIGNAL REPRODUCTION FROM ROTATING HEAD RECORDERS
N64-16166 08-08

RADIO PROPAGATION PROBLEMS AND PARAMETERS AFFECTING SIGNAL TRANSMISSION
AFCRL-64-54 N64-18634 11-08

INVESTIGATION OF GLOTRAC TYPE G TRANSPONDER FOR USE IN RANGE CALIBRATION SATELLITE - SIGNAL TRANSMISSION
AFCRL-64-240/A/ N64-18695 11-08

MILLIMETER WAVE TECHNIQUES FOR EVALUATION OF GUIDANCE DATA SIGNAL ATTENUATION BY EXHAUST PLUMES
RE-TR-63-31 N64-18786 11-08

TRANSMISSION OF LIGHT SIGNALS BEYOND GEOMETRICAL HORIZON - ATMOSPHERIC SCATTERING
N64-19178 11-23

RADAR EQUIPMENT, SIGNAL PROCESSING, RANGE MEASUREMENT, AND MICROWAVE COMPONENTS
ESD-TDR-64-41 N64-20300 13-09

SIGNAL PROCESSOR FOR PHASED ARRAY ANTENNAS
CU-29-64-AF-1113-ERL N64-21224 14-08

THEORY OF HARMONICS ARISING FROM NONLINEAR DISSIPATION OF SIGNALS IN PARTIALLY IONIZED GAS
USCEC-82-217 N64-21989 15-24

DEGRADATION IN INFORMATION CONTENT OF SURVEILLANCE AND COMMUNICATION SIGNALS TRANSMITTED THROUGH PLASMA SHEATH
RADC-TDR-63-548 N64-22275 15-24

DIRECTIONAL RADIO ANTENNAS USED FOR TRANSMISSION AND RECEPTION OF RADIO SIGNALS AND COMMUNICATIONS AT VERY HIGH FREQUENCIES
FTD-TT-62-1426/1&2&3&4 N64-22624 15-08

GROUND AND AIRBORNE SIGNAL TRANSMISSION - COMMUNICATION SYSTEM
N64-23627 16-04

POLARIZATION CHARACTERISTICS OF TRANSMITTED SIGNALS FOR NOISE SUPPRESSION IN COMMUNICATION LINK
RADC-TDR-64-128, VOL. II N64-24192 16-23

RELATIONSHIP BETWEEN SIGNAL PASSAGE AND SYSTEM TRANSFER FUNCTIONS
N64-26389 18-20

OPTIMUM SIGNAL DESIGN FOR TRANSMISSION THROUGH GAUSSIAN TIME-VARYING MULTIPATH MEDIA
AFCRL-64-485 N64-27438 19-08

TRANSMISSION OF SEISMOGRAPHIC SIGNALS OVER WIDE FREQUENCY RANGE - MULTICHANNEL TELEMETRY SYSTEM
N64-28510 20-08

HIGH ALTITUDE ANTENNA VOLTAGE BREAKDOWN DURING RADIATION OF MULTIPLE SIGNALS - MULTIFREQUENCY BREAKDOWN
NASA-CR-58309 N64-29190 21-08

STANDARD TIME SIGNAL AND FREQUENCY STANDARD TRANSMISSION IN USSR
ATD-P-64-48 N64-30010 21-15

POLARIZATION EFFECT ON RADIO SIGNALS SCATTERED BY METEOR TRAILS
NASA-TT-F-8962 N64-30855 22-05

GUIDED PROPAGATION OF OPTICAL SIGNAL BY BEAM WAVEGUIDE
RADC-TDR-64-65 N64-30937 22-23

RADIATION EFFECTS ON ELECTROMAGNETIC SIGNAL PROPAGATION IN AIR
R-146-8 N64-32292 23-24

ULTRA LONG-RANGE TELEMETRY - SIGNAL TRANSMISSION AND DETECTION, AND INFORMATION PROCESSING
AL-TDR-64-87, VOL. I N64-33790 24-08

SIGNATURE
RADAR SIGNATURE AND DATA ACQUISITION FOR AN/CPN-4 RADAR SYSTEM
RADC-TDR-63-517 N64-15737 07-08

SPECTRUM SIGNATURE MEASUREMENTS MADE ON AIR ROUTE SURVEILLANCE RADAR SYSTEM
RADC-TDR-63-363 N64-21218 14-23

SPECTRUM SIGNATURE SYNTHESIS - SPURIOUS RESPONSES IN SINGLE & DOUBLE CONVERSION RECEIVERS & GAIN CHARACTERISITCS OF HIGH GAIN REFLECTOR ANTENNAS
N64-22838 16-09

ELECTRICAL SIGNATURES OF RADAR INTERFERENCE
ESD-TDR-64-240 N64-24869 17-09

ADVANCED RANGE INSTRUMENTATION SHIPS FOR PROVIDING SIGNATURE AND TRAJECTORY INFORMATION INDEPENDENT OF OUTSIDE NAVIGATION REFERENCE - ACCURACY EVALUATION
N64-29109 21-08

RADAR SIGNATURE PROCESSING AT ATLANTIC MISSILE RANGE
N64-29114 21-08

RADAR SIGNATURES OF INTERFERING TARGETS AND TWO CIRCUITS TO COMBAT INTERFERENCE
ESD-TDR-64-252 N64-30178 21-15

SILANE
CF SILICON COMPOUND
SYNTHESIS OF NEW COMPOUNDS FOR SILANES
NASA-CR-52483 N64-10363 01-07

CHLOROMETHYLATION OF ORGANOSILICON COMPOUNDS AND SYNTHESIS OF ORGANOSILICON COMPOUNDS FROM CHLOROMETHYLATED ALKYLBENZENES N64-12489 04-07

SUBSTITUTED DIMETHYL-DIAMINO-SILANES AND RELATED COMPOUNDS
RSIC-139 N64-17658 09-07

PHENYL SILANE PREIMPREGNATED GLASS FABRIC LAMINATES TESTED FOR HIGH TEMPERATURE STRUCTURAL PROPERTIES
ERR-FW-126 N64-18922 11-19

THERMOSTABLE ORGANIC SILANE POLYMERS
NASA-TM-X-53028 N64-27245 19-07

SYNTHESIS OF DIMETHYL-BIS-PERFLUOROPROPYL-SILANE AND STUDY OF PYROLYTIC AND HYDROLYTIC STABILITY
N64-29173 21-07

ONE-CENTER SELF-CONSISTENT FIELD MOLECULAR ORBITAL WAVE FUNCTIONS FOR GROUND STATES OF HYDROGEN FLUORIDE, METHANE, AND SILANE N64-30315 22-23

LUMINESCENT PROPERTIES OF MIXED PHENYL AND P-BIPHENYLYL SILANES
GSP/PHYS/64-11 N64-33820 24-07

SILAZANE
PREPARATION & DECOMPOSITION OF CYCLIC N-SILYLATED SILAZANES
RSIC-119 N64-14507 06-07

N-METHYL SUBSTITUTED SILAZANES & SILICON-NITROGEN COMPOUNDS WITH SILICON-METHYLENE-SILICON GROUPING
AD-420486 N64-31234 22-07

INTERACTION OF HEXAALKYLDISILAZANES WITH CARBOXYLIC ACIDS AND DIATOMIC PHENOLS
RSIC-264 N64-32485 23-07

SILICATE
SA FORSTERITE
CF PYROXENE
CF SILICON COMPOUND
SINTERED ALUMINUM OXIDE BONDING USING SILICATE BRAZING FOR REACTOR CLADDING
EUR-274.F N64-10034 01-19

PROCESSES FOR UTILIZATION OF LUNAR RESOURCES - REDUCTION OF SILICATES TO PRODUCE OXYGEN
NASA-CR-52318 N64-10179 01-29

LOW TEMPERATURE HEAT CAPACITY & ENTROPY OF AKERMANITE, CORDIERITE, GEHLENITE, & MERWINITE
BM-RI-6343 N64-12121 03-13

HYDROTHERMAL SYNTHESIS OF OLIVINE-TYPE SILICATES
ERR-FW-221 N64-16630 08-12

SPECTRAL, THRESHOLD, AND COMPOSITION PROPERTIES OF SODA-LIME-SILICATE LASER
AD-431753 N64-18579 11-25

REDUCTION OF LUNAR NATURAL SILICATES FOR OXYGEN PRODUCTION
NASA-CR-53749 N64-19174 11-07

ETHYLSILICATE COVERING FOR INVESTMENT CASTING
N64-23508 16-19

CRYSTALLIZATION OF GLASS - CONTROLLED PHASE SEPARATION DUE TO METASTABLE LIQUID IMMISCIBILITY IN SIMPLE SILICATE SYSTEMS
TR-2 N64-25900 18-19

BIBLIOGRAPHY ON SILICATE CHEMISTRY
JPRS-25037 N64-26299 18-07

CHEMICAL REACTIONS OF NATURAL SILICATES WITH METHANE, METHANE-HYDROGEN MIXTURES, CARBON, AND SILICON CARBIDES - UTILIZATION OF LUNAR RESOURCES
NASA-CR-56885 N64-26356 18-07

ELASTIC MODULI AND TENSILE STRENGTH OF SILICATE GLASSES AND OTHER CERAMIC MATERIALS
PR-4 N64-26691 18-19

VAPOR PRESSURE AND VAPOR FRACTIONATION OF SILICATE MELTS OF TEKTITE COMPOSITION
NASA-RP-298 N64-28705 20-07

ENERGY TRANSFER IN SILICATE GLASS COACTIVATED WITH CERIUM AND NEODYMIUM
NRL-1546 N64-30676 22-23

THERMODYNAMIC PROPERTIES OF MOLTEN LEAD SILICATES
N64-31411 23-07

UTILIZATION OF LUNAR RESOURCES - REDUCTION OF IGNEOUS ROCK OR SILICATE MATERIALS WITH METHANE, CARBON, AND HYDROGEN
NASA-CR-59167 N64-33679 24-07

ULTRAHIGH VACUUM ADHESION OF SILICATES AS RELATED TO LUNAR SURFACE
NASA-CR-59364 N64-33812 24-17

SILICIDE
CF SILICON COMPOUND
DEFECTS IN SILICIDE COATING ON MOLYBDENUM AS FUNCTION OF STRESS CHANGE WITH TEMPERATURE VARIATION
JPRS-21758 N64-10122 01-31

MAGNETOSTRICTION CONSTANT AND STRUCTURE OF IRON SILICIDE SINGLE CRYSTALS
E-T-R-63-4 N64-13132 04-19

INDEX OF VISCOSITY FOR MEASURING POLYMERIZATION IN ETHYLSILICIDE IN INVESTMENT CASTING
N64-23509 16-19

LOW PRESSURE EFFECT ON OXIDATION PROTECTION OF SILICIDE COATINGS ON MOLYBDENUM AND COATING OF MOLYBDENUM COMPONENTS N64-27007 19-17

SILICIDE PROTECTIVE COATING FOR TANTALUM ALLOYS
N64-27008 19-17

SILICIDE PROTECTIVE COATINGS FOR REFRACTORY METALS
N64-27014 19-17

SCALE UP OF SILICIDE ALLOY COATING TO PROTECT MOLYBDENUM ALLOYS AGAINST HIGH TEMPERATURE OXIDATION
ML-TDR-64-84 N64-29976 21-11

DIFFUSION OF SILICON DURING FORMATION OF SILICIDE COATINGS ON TITANIUM, TANTALUM, MOLYBDENUM, AND IRON
FTD-TT-63-262 N64-29985 21-11

PACK SILICIDE AS HIGH TEMPERATURE OXIDATION PROTECTIVE COATING FOR VANADIUM ALLOYS
IITRI-B6019-5 N64-32200 23-17

SCALE UP & THERMAL TESTING OF ZIRCONIUM-BORIDE-MOLYBDENUM-SILICIDE REFRACTORY CERAMIC COMPOSITE FOR LEADING EDGES OF HYPERSONIC VEHICLES
REPT.-2178-900204 N64-33655 24-14

SILICON
ENERGY LEVELS OF DEFECT CENTERS IN ELECTRON AND PROTON BOMBARDED SILICON - HALL COEFFICIENT & HALL MOBILITY
NASA-CR-51528 N64-10084 01-23

SILICON SINGLE CRYSTAL - EXPOSING DISLOCATIONS BY ETCHING N64-10706 02-11

CRYSTAL TENSILE STRENGTH AND ANNEALING EFFECT ON GERMANIUM CRYSTALS - EDGE DISLOCATIONS AND ELASTIC STRESSES IN SILICON
JPRS-17689 N64-10708 02-25

INTERACTION OF EDGE DISLOCATIONS WITH VACANCIES IN SILICON N64-10711 02-25

DISCRETE STRUCTURE OF ELASTIC STRESSES FORMED BY A SERIES OF DISLOCATIONS IN SILICON
N64-10712 02-25

EDGE DISLOCATION CLIMB IN SILICON UNDER ACTION OF DISSOLVED GOLD N64-10733 02-25

DISLOCATIONS IN SILICON SINGLE CRYSTALS ON DISSOLUTION N64-10741 02-25

SILICON PHOTOVOLTAIC CELL FOR MEASUREMENT OF TRANSMITTANCE AND REFLECTANCE OF TRANSPARENT MATERIALS FOR SOLAR RADIATION N64-10955 02-15

RESISTANCE OF SILICON SOLAR CELLS TO PROTON AND ELECTRON RADIATION
NASA-TM-X-51189 N64-11382 02-06

LUMINOSITY OF CADMIUM SULFIDE & SILICON COOLED TO LIQUID HELIUM TEMPERATURE & BOMBARDED BY THREE ELECTRONS - TRANSITIONS N64-11402 02-23

SURFACE PROTECTION FOR SILICON DEVICES
AFCRL-63-333 N64-11933 03-25

FAILURE MECHANISMS IN SILICON SEMICONDUCTORS
RADC-TDR-63-443 N64-12590 04-25

INTERNAL FRICTION DUE TO DISLOCATION IN SILICON CRYSTALS WITH CONTROLLED DEGREES OF PLASTIC DEFORMATION
ASD-TDR-62-431, PT. 2 N64-12670 04-25

OPERATION OF HIGH EFFICIENCY SILICON SOLAR CELLS
AD-422529 N64-12927 04-04

PRODUCTION TECHNIQUES TO IMPROVE RELIABILITY OF SILICON TRANSISTORS
AD-422641 N64-12989 04-09

IMPURITIES IN SILICON & GERMANIUM DISCOVERED BY ELECTRON SPIN RESONANCE AND INFRARED ABSORPTION
HP-9 N64-13036 04-18

PRODUCTION DEVELOPMENT OF SILICON PLANAR EPITAXIAL TRANSISTOR N64-13038 04-09

PORTABLE THERMOPHOTOVOLTAIC CONVERTER FOR TERRESTRIAL APPLICATION - GERMANIUM PHOTOVOLTAIC CELL AND SILICON CELL FABRICATION & TESTING
TR63-228 N64-13076 04-09

MEASUREMENT OF ENGINEERING RELIABILITY OF SILICON ALLOY TRANSISTOR
QR-4 N64-13635 05-17

SURFACE PROTECTION FOR SILICON SEMICONDUCTOR DEVICES
AFCRL-63-536 N64-13640 05-17

SLOW & FAST SURFACE STATES IN SEMICONDUCTORS OF GERMANIUM AND SILICON
RADC-TDR-63-464 N64-13784 05-25

PROCESSING IMPROVEMENTS FOR INCREASED RELIABILITY OF SILICON TRANSISTORS
QPR-4 N64-14004 05-17

PRODUCT DEVELOPMENT - SILICON ALLOY TRANSISTOR
AD-427890 N64-14123 05-17

STRUCTURAL ANALYSIS OF SILICON P-N JUNCTIONS USING UNIFORM AVALANCHE JUNCTIONS
AFCRL-63-538 N64-14138 05-25

PRODUCTION ENGINEERING TO IMPROVE AND INCREASE RELIABILITY OF PNP SILICON TRANSISTORS
QPR-1 N64-14299 06-17

GAMMA-RAY SPECTROMETRIC DETERMINATION OF IRON, COPPER, PHOSPHOROUS, AND NICKEL IN SILICON USING ION-EXCHANGE
AFCRL-63-388 N64-14685 06-23

EFFECT OF X-RAY FLASHES ON ELECTRICAL CONDUCTANCE OF SILICON - CONSTRUCTION AND TESTING OF AMPLIFIER AND ASSOCIATED SHIELDED CABLES
QPR-2 N64-14960 06-09

HIGH EFFICIENCY SILICON SOLAR CELL DEVELOPMENT
QPR-5 N64-14990 06-06

DENDRITIC SILICON SOLAR CELL PANEL
RTD-TDR-63-4030 N64-15091 07-06

DENDRITIC SILICON SOLAR CELL AND RADIATION RESISTANCE OF ARRAY
AD-429047 N64-15092 07-06

ELECTRON TRANSPORT PROPERTIES OF ZONE-REFINED, P-TYPE SILICON DURING PILE NEUTRON IRRADIATION N64-15117 07-25

SILICON CRYSTALS, NITROGEN-SULFUR SYSTEMS, PHOTOCHEMISTRY, PLASMAS, AND CHELATES USED IN ENERGY CONVERSION SYSTEMS
AFCRL-63-940 N64-15489 07-01

FABRICATION OF LARGE, THIN, SILICON SINGLE CRYSTALS N64-15490 07-25

PRODUCTION METHOD FOR INCREASING RELIABILITY OF SILICON PLANAR EPITAXIAL TRANSISTORS
AD-429920 N64-15857 07-09

PREPARATION OF SILICON SUBSTRATES PRIOR TO EPITAXIAL DEPOSITION
AD-429921 N64-15858 07-17

HIGH ENERGY ELECTRON RADIATION EFFECT ON SILICON SOLAR CELLS
NASA-CR-50098 N64-16066 07-06

PERFORMANCE OF HIGH EFFICIENCY SILICON SOLAR CELLS AS EFFECTED BY CONCENTRATED SUNLIGHT
AD-402839 N64-16100 07-06

SILICON, NITROGEN, AND OXYGEN IMPURITIES EFFECT ON CORROSION AND HYDROGEN ABSORPTION OF ZIRCALOY-2
WAPD-283 N64-16259 08-18

PROTON IRRADIATION DAMAGE TO SILICON SOLAR CELLS
NASA-CR-55829 N64-16716 08-06

DESIGN OF SILICON CELLS FOR USE IN CONCENTRATED SOLAR ENERGY N64-17377 09-06

LARGE AREA SOLAR CELLS FROM SILICON SHEETS USING ALUMINUM HONEYCOMB SUBSTRATE N64-17378 09-06

SEMICONDUCTOR DEVICE - PHONON DRAG STUDY OF SCATTERING IN SILICON
AD-432700 N64-17661 09-25

THERMOCONDUCTIVITY OF SILICON BASED WITH POTASSIUM TITANATE FIBERS - COATING MATERIAL
NASA-CR-56007 N64-17688 09-13

HIGH FREQUENCY TECHNIQUE FOR MEASURING BULK CARRIER LIFETIME IN SILICON SAMPLES WITHOUT ELECTRODES
AD-433623 N64-18225 10-25

SILICON SOLID STATE DEVICES FOR INTEGRATED CIRCUITS
AL-TDR-64-29 N64-18376 10-09

DIFFUSION OF SILICON IN TITANIUM, TANTALUM, IRON, AND MOLYBDENUM
FTD-MT-63-39/1&2 N64-18669 11-25

RELIABILITY ENGINEERING FOR SILICON TRANSISTORS
QPR-2 N64-18705 11-17

SILICON PLANAR EPITAXIAL TRANSISTOR - PRODUCTION METHOD, RELIABILITY, AND LIFETIME
AD-435114 N64-18738 11-17

PRODUCT DEVELOPMENT, PRODUCTION, & QUALITY CONTROL OF SILICON PLANAR EPITAXIALLY DEPOSITED TRANSISTOR
AD-435115 N64-18739 11-17

PROTON DAMAGES IN SILICON SEMICONDUCTOR CRYSTAL STRUCTURE
NASA-CR-40 N64-18932 11-25

FABRICATION AND PROPERTIES OF GALLIUM ARSENIDE ELECTROLUMINESCENT DIODE AND OPTICALLY COUPLED SILICON TRANSISTOR
AD-428185 N64-19812 12-25

RELIABILITY CONTROL OF SILICON PLANAR EPITAXIAL

AND SILICON GROWN DIFFUSED TRANSISTORS
QR-7 N64-20079 13-17

MASS SPECTROMETER MONITORING SYSTEM FOR DOPANTS IN GAS STREAM DURING EPITAXIAL DEPOSITION OF SILICON
AFCRL-64-178 N64-20163 13-06

DISLOCATION DISTRIBUTIONS IN SILICON SUBSTRATE STRUCTURE FOR MATERIAL FAILURE ANALYSIS
N64-20975 14-25

ELECTRON PROBE METHOD FOR DETERMINING IMPURITY DISTRIBUTION IN SILICON SWITCHING DIODES
N64-20982 14-15

FAILURE IN SILICON TRANSISTORS DUE TO FORMATION OF GOLD-ALUMINUM-SILICON COMPLEX AT LEADS
N64-20991 14-25

STACKING FAULTS IN EPITAXIALLY GROWN SILICON AND EFFECT ON SEMICONDUCTOR RELIABILITY
N64-20995 14-25

PRODUCTION METHOD MODIFICATIONS TO IMPROVE RELIABILITY OF SILICON TRANSISTORS - RELIABILITY MONITORING BY STEP-STRESS TESTING
AD-439408 N64-21029 14-17

PRODUCTION ENGINEERING METHOD FOR IMPROVING RELIABILITY OF SILICON PLANAR TRANSISTORS AND MICROELECTRONIC MONOLITHIC CIRCUITRY
AD-437181 N64-21463 14-17

SILICON POWER TRANSISTOR - 500 WATTS
QR-2 N64-21847 15-09

SILICON DETECTOR OF THERMAL NEUTRONS
FTD-TT-64-95/1&2 N64-21970 15-25

LIFE TESTING OF SILICON EPITAXIAL PLANAR TRANSISTORS
QPR-6 N64-22516 15-17

HIGH ENERGY PROTON EFFECT ON SILICON PHOTOCELLS
NASA-TT-F-8820 N64-23040 16-06

SILICON SEMICONDUCTOR FAILURE MECHANISMS
RADC-TDR-64-153 N64-23960 16-09

PASSIVATION OF SEMICONDUCTOR PLANAR SILICON DEVICES
IR-7-879/XII/ N64-24388 17-25

SILICON DIODES IN MULTIPLYING UNIT CIRCUITS WITH QUADRATIC FUNCTIONAL CONVERTERS AND WITHOUT REFERENCE N64-24542 17-09

EFFECTS OF SILICON CRYSTAL DEFECTS ON HIGH CURRENT HIGH VOLTAGE SILICON CONTROLLED RECTIFIERS
QR-5 N64-24667 17-09

RARE EARTH DOPED SILICON
AFCRL-64-406 N64-24917 17-25

GERMANIUM AND SILICON TRANSISTORS
REPT.-03-64-23 N64-25101 17-09

VHF SILICON TRANSISTOR
PSI-59-RD-2 N64-25128 17-09

PRODUCTION ENGINEERING FOR RELIABILITY IMPROVEMENT OF TRIPLE DIFFUSED SILICON TRANSISTOR
TRWS-3000-43-Q-6 N64-25290 17-09

PERFORMANCE RELIABILITY OF ALL-DIFFUSED SILICON CONTROLLED SWITCH
QPR-3 N64-25318 17-17

QUALITY CONTROL INSPECTION OF SILICON PLANAR EPITAXIAL SEMICONDUCTOR DEVICE
MPQRA 101A N64-25403 17-17

PRODUCTION ENGINEERING TO IMPROVE RELIABILITY OF SILICON GROWN DIFFUSED TRANSISTOR
AD-601889 N64-25583 17-09

FAILURE RATE OPTIMIZATION IN SILICON TRIPLE DIFFUSED TRANSISTORS
REPT.-03-64-15 N64-25588 17-09

SOLID STATE DEVICES - SILICON TRANSISTOR AND VOLTAGE TUNED OSCILLATOR FOR RADIO FREQUENCY GENERATOR
QPR-3 N64-25994 18-23

SILICON POWER TRANSISTOR
QR-3 N64-26088 18-09

PERFORMANCE CHARACTERISTICS OF SILICON PHOTODIODE IN DIFFERENT RADIATION BACKGROUNDS
NOLC-595 N64-26491 18-09

SILICON PHOTODIODE VACUUM ULTRAVIOLET DETECTOR
NASA-CR-58055 N64-26805 18-15

PROCESS SPECIFICATIONS FOR SILICON TRANSISTORS TO IMPROVE RELIABILITY
REPT.-03-64-42 N64-27728 19-09

PRODUCTION ENGINEERING MEASURE TO INCREASE RELIABILITY OF SILICON TRANSISTORS
QPR-3 N64-27729 19-09

HIGH EFFICIENCY SILICON SOLAR CELLS FOR TERRESTRIAL APPLICATIONS
REPT.-7 N64-27863 19-06

HIGH CURRENT AND HIGH VOLTAGE SILICON CONTROLLED RECTIFIERS /SCR/
QR-6 N64-28014 20-09

POWER SILICON GATE CONTROLLED SWITCH FOR HIGH VOLTAGE AND HIGH CURRENT SWITCHING
NASA-CR-94 N64-28314 20-09

RATE EQUATIONS DERIVED FOR SIX-LEVEL MASER USING CROSS RELAXATIONS BETWEEN SPIN LEVELS IN PHOSPHORUS-BORON DOPED SILICON
AFCRL-64-243 N64-28577 20-25

INORGANIC MACROMOLECULES WITH SILICON-OXYGEN-METAL LINK
AD-601415 N64-28664 20-07

CONFERENCE ON RADIATION RESISTANCE AND DAMAGE IN SILICON SOLAR CELLS AND PHOTOVOLTAIC DEVICES
NASA-CR-58680 N64-29152 21-06

CHANGES IN SILICON PHOTOVOLTAIC CELL PROPERTIES DUE TO SURFACE IRRADIATION N64-29154 21-06

CURRENT AND VOLTAGE BEHAVIOR OF SILICON CELLS SUBJECTED TO LOW ENERGY PROTON IRRADIATION
N64-29155 21-06

DAMAGE TO SILICON AND GALLIUM ARSENIDE SOLAR CELLS FROM LOW ENERGY PROTON IRRADIATIONS
N64-29156 21-06

ENERGY DEPENDENCE OF ELECTRON DAMAGE IN SILICON
N64-29157 21-06

IMPURITY EFFECT ON RADIATION DAMAGE OF SILICON SOLAR CELLS - TENDENCY OF BORON ATOMS IN SILICON TO CREATE RECOMBINATION CENTERS
N64-29158 21-06

ELECTRICAL PROPERTIES OF IRRADIATED SILICON SOLAR CELLS MEASURED FROM TEMPERATURE PROFILE
N64-29159 21-06

RADIATION RESISTANCE OF SILICON WEBBED DENDRITIC SOLAR CELLS - DIFFUSION TECHNIQUES, DRIFT FIELD, STRUCTURES, AND EFFECT OF VACUUM ENVIRONMENT ON DAMAGE RATES N64-29160 21-06

FABRICATION OF CONTROLLED-JUNCTION SOLAR CELLS BY IMPLANTATION OF DOPING IONS INTO BULK SILICON BY VAN DE GRAAFF ACCELERATOR N64-29164 21-06

HIGH TEMPERATURE BEHAVIOR OF BOMBARDED AND UNBOMBARDED SILICON AND GALLIUM ARSENIDE CELLS OF VARIOUS RESISTIVITIES N64-29168 21-06

QUARTZ CRYSTAL OSCILLATOR CIRCUITS STUDY
TP64-1096 N64-29409 21-06

DEPOSITION OF EPITAXIAL SILICON ON GALLIUM ARSENIDE SUBSTRATES CONTROLLED BY ELECTRON BEAM

EVAPORATOR
AL-TDR-64-135 N64-29643 21-25

PRODUCTION ENGINEERING TECHNIQUES FOR IMPROVED RELIABILITY OF DIFFUSED SILICON CONTROLLED SWITCH
QPR-4 N64-29844 21-17

PHOTOENGRAVING TECHNIQUES USED IN SILICON INTEGRATED DEVICE TECHNOLOGY
ASD-TDR-63-316, VOL. III N64-29984 21-25

ION BOMBARDMENT AND SIMULTANEOUS DOPING OF SILICON BY DC GLOW DISCHARGE
ARDD-3330-4 N64-30006 21-25

QUANTUM EFFICIENCY OF SILICON IN VACUUM ULTRAVIOLET FROM PHOTODIODE RESPONSE
N64-30470 22-25

EFFECT OF IMPURITIES ON RADIATION DAMAGE IN SILICON SOLAR CELLS
NASA-RP-314 N64-30659 22-06

FIELD EMISSION CURRENT DENSITY OF SILICON CATHODES
FTD-TT-64-164/1&2 N64-30702 22-25

SEMICONDUCTOR SUBSTRATE AND ACTIVE DEVICE FOR SILICON THIN FILM INTEGRATED CIRCUIT
ISR-1 N64-30898 22-25

ULTRAHIGH FREQUENCY SILICON POWER TRANSISTORS - DIFFUSION EFFECTS, ION BOMBARDMENT DOPING, AND EPITAXIAL DEPOSITION
AL-TDR-64-207 N64-30982 22-09

COMPACT HIGH-VOLTAGE SILICON RECTIFIER STACKS - PRODUCTION ENGINEERING
QPR-8 N64-31182 22-09

HIGH CURRENT AND HIGH VOLTAGE SILICON CONTROLLED RECTIFIERS
QPR-5 N64-31226 22-09

MICROELECTRONIC SEMICONDUCTOR CIRCUIT WITH SILICON CONTROLLED RECTIFIER N64-31501 23-09

PHYSICAL, ELECTRICAL, THERMAL, AND OPTICAL PROPERTIES OF SILICON FOR INTEGRATED CIRCUIT APPLICATIONS
ASD-TDR-63-316, VOL. V N64-31940 23-25

IMPURITY DIFFUSION IN INTEGRATED SILICON DEVICE
ASD-TDR-63-316, VOL. IV N64-32186 23-25

GERMANIUM AND SILICON TRANSISTOR-LIKE DEVICES - RESISTORS, DIODES, AND TRANSISTORS
REPT.-16 N64-32207 23-09

SILICON CONTROL RECTIFIERS FOR SWITCHING DEVICES
AD-448624 N64-32542 23-17

HIGH VOLTAGE SILICON RECTIFIER STACKS
AD-603501 N64-33014 24-09

DETERMINATION OF SILICON IN PLUTONIUM METAL, SILICIDE, AND ALLOYS BY PERCHLORIC ACID DEHYDRATION
LA-3134 N64-33066 24-07

EQUILIBRIUM STRUCTURES IN URANIUM ALLOYS CONTAINING SILICON
MCW-1486 N64-33461 24-18

POSTIRRADIATION, ROOM TEMPERATURE ELECTRICAL CHARACTERISTICS OF FLIGHT-QUALITY SILICON SOLAR CELLS
NASA-TM-X-55098 N64-33631 24-06

SILICON ALLOY
ALLOYS OF RARE EARTH METALS WITH BORON AND SILICON
JPRS-17750 N64-10717 02-09

EXPLORATION OF ALUMINUM-SILICON-MAGNESIUM ALLOY SYSTEM
SM-43109 N64-18711 11-18

QUALITY CONTROL MANUAL FOR RELIABILITY IMPROVEMENT OF SILICON ALLOY TRANSISTOR
QC-223, VOL. 3 N64-20298 13-17

FABRICATION AND JUNCTION FORMATION OF SILICON ALLOY TRANSISTORS - RELIABILITY IMPROVEMENT
QC-223, VOL. 1 N64-20324 13-17

IMPROVED PRODUCTION METHODS FOR SILICON ALLOY TRANSISTOR - RELIABILITY ENGINEERING
QC-223 N64-20325 13-17

X-RAY INVESTIGATION OF EFFECTS OF SECOND AND THIRD KIND DURING FATIGUE TESTING OF SILICON STEEL
N64-23836 16-33

MASS SPECTROGRAPHIC ANALYSIS OF ZONE REFINING OF DISTRIBUTION COEFFICIENT OF SILICON IN ALUMINUM
TR-7 N64-26811 18-18

CORROSION-RESISTANCE, WELDABILITY, HEAT TREATMENT, AND DIFFUSION RATE TESTING OF ALUMINUM-MAGNESIUM-SILICON, ALUMINUM-MAGNESIUM, AND ALUMINUM-ZINC-MAGNESIUM ALLOYS
JPRS-25642 N64-27265 19-18

OPTIMIZATION OF CHROMIUM-TITANIUM-SILICON COATING PROCESS FOR LABORATORY AND PILOT SCALE COATING FURNACES
ASD TDR-62-934, PT. II N64-27476 19-18

SURFACE AND ISOMERIZATION CHARACTERISTICS OF PLATINUM-SILICON-ALUMINUM N64-28049 20-07

THERMAL STRESS IN TWO-PHASE ALUMINUM-SILICON ALLOYS
TR-5 N64-28458 20-13

METASTABLE EXTENSION OF SOLUBILITY LIMIT IN SILVER-BASE BINARY ALLOYS OF TIN, ANTIMONY, AND SILICON
TR-14 N64-31289 22-18

CRACK FORMATION AND FRACTURE IN ALUMINUM-SILICON ALLOYS
TR-8 N64-32028 23-18

SILICON CARBIDE
IRRADIATION BEHAVIOR OF BULK BORON CARBIDE AND BORON CARBIDE-SILICON CARBIDE BURNABLE POISON PLATES FOR REACTOR CONTROL
WAPD-261 N64-11243 02-23

SILICON CARBIDE DIODES - ELECTROLUMINESCENT PHENOMENA N64-13750 05-25

MECHANICAL PROPERTIES OF BAR-SHAPED SILICON CARBIDE SINGLE CRYSTALS
AD-427371 N64-13860 05-19

BORON CARBIDE AND SILICON CARBIDE POISONS AND METAL-CLAD ELEMENTS FOR REACTOR CONTROL
WAPD-244 N64-16693 08-23

SILICON CARBIDE AND TITANIUM CARBIDE FILAMENT STUDY BY VAPOR DEPOSITION TECHNIQUES
BMPR-2 N64-18902 11-19

SILICON CARBIDE SINGLE CRYSTALS FACTOR STUDY AND METHOD OF PRODUCTION
AD-437383 N64-19562 12-25

ANTENNA WITH NIOBIUM S-BAND WAVEGUIDE AND SILICON CARBIDE HEATING ELEMENTS
CAL-UB-1807-E-3 N64-19563 12-09

INFRARED FLUORESCENT CRYSTALS, GROUND STATES OF RUBY CRYSTALS, AND POLYMERIZATION OF ACETYLENE-BENZENE & SILICON CARBIDE
JPRS-24743 N64-23001 16-01

NEW POLYTYPES OF SILICON CARBIDE USING LAUE METHOD OF X-RAY ANALYSIS N64-23007 16-07

CHEMICAL REACTIONS OF NATURAL SILICATES WITH METHANE, METHANE-HYDROGEN MIXTURES, CARBON, AND SILICON CARBIDES - UTILIZATION OF LUNAR RESOURCES
NASA-CR-56885 N64-26356 18-07

SURFACE FAILURE OF TITANIUM CARBIDE CERMET AND

SILICON CARBIDE BALL IN ROLLING CONTACT AT TEMPERATURES TO 2,000-DEG F
NASA-TN-D-2459 N64-27926 20-18

PILOT LINE FOR FABRICATION OF SILICON CARBIDE RECTIFIERS - CRYSTAL GROWTH AND PROCESSING
ASD-IR-7-727-10 N64-28678 20-25

GLOBAL SILICON CARBIDE BLACK MATERIAL APPLIED TO UNIMMERSED TIROS RADIOMETER TYPE INFRARED DETECTORS
NASA-CR-60003 N64-28925 20-15

PHOTOVOLTAGES IN SILICON AND SILICON CARBIDE FILMS AND ORIGIN FROM TRAP-INDUCED SPACE CHARGE
NASA-RP-315 N64-30608 22-25

SILICON CARBIDE RECTIFIER PROGRAM - CRYSTAL GROWTH AND JUNCTION FORMATION TECHNIQUES, FABRICATION OF EPITAXIAL RECTIFIER, AND LIFE AND STORAGE TESTING OF DEVICES
ASD-IR-7-727/VIII N64-31916 23-25

BETA SILICON CARBIDE FOR SEMICONDUCTORS - CRYSTAL GROWTH AND PURIFICATION FROM NITROGEN
REPT.-12 N64-32973 24-25

SILICON COMPOUND
SA ORGANIC SILICON COMPOUND
SA SILANE
SA SILICATE
SA SILICIDE
MASS SPECTROMETRIC STUDIES OF BORON-CARBON-SILICON SYSTEMS, AND REDETERMINATION OF ATOMIZATION ENERGY OF THESE MOLECULES
WADD-TR-60-782, PT. 13 N64-11172 02-18

PHASE DIAGRAMS OF BORON-SILICON ALLOY SYSTEMS
AID-T-63-119 N64-11466 03-18

MIXED NEUTRON-GAMMA RADIATION FIELD EFFECTS ON ELECTRICAL PROPERTIES OF SILICONE DIELECTRIC FLUIDS
NARF-63-71 N64-13316 04-19

PRODUCT DEVELOPMENT - SILICON ALLOY TRANSISTOR
AD-427890 N64-14123 05-17

PRODUCTION & DESIGN CHANGES TO IMPROVE RELIABILITY OF SILICON ALLOY TRANSISTORS
QR-5 N64-14636 06-09

SILICON-GERMANIUM ALLOYS FOR THERMOCOUPLE APPLICATIONS N64-17386 09-06

SYNTHESIS OF ELASTOMERS CONTAINING SILICON-NITROGEN BONDS IN MAIN CHAIN
AD-432392 N64-18309 10-07

COMPARATIVE STUDY OF 354-T61 AND 356-T6 ALUMINUM-SILICON-COPPER-MAGNESIUM CASTING ALLOYS FOR MECHANICAL PROPERTY ADVANTAGES
SM-44636 N64-18708 11-18

KINETICS OF TRANSFORMATION BY QUENCHING OF BETA-PHASE IN ALLOYS OF URANIUM WITH ALUMINUM, SILICON, IRON, NICKEL, MOLYBDENUM, & FISSION N64-19444 12-18

STRESS-STRAIN STUDIES OF NICKEL, IRON, AND IRON-SILICON ALLOYS WITH DIFFERENT GRAIN SIZES
ARL-63-245 N64-19647 12-18

RELIABILITY CONTROL IN FABRICATION OF SILICON ALLOY TRANSISTORS
QPR-2 N64-20141 13-17

SYNTHESIS OF ELASTOMERS CONTAINING SILICON-NITROGEN BONDS IN MAIN CHAIN
QPR-8 N64-20145 13-07

TEMPERATURE AND CONCENTRATION DEPENDENCE OF HALL MOBILITY OF ELECTRONS IN SILICON ALLOYED WITH ARSENIC AND PHOSPHORUS
FTD-TT-63-687/1&2 N64-21953 15-25

BENDING & AXIAL STRESS FATIGUE STRENGTH OF ALUMINUM-MAGNESIUM-SILICON ALLOY N64-21987 15-33

SYNTHESIS AND PROPERTIES OF FIBROUS SILICON NITRIDE
BN-RI-6467 N64-22101 15-07

IMPROVEMENT OF PARALLEL STATIC INVERTERS AND CONVERTERS USING ANNEALING SILICON-STEEL
NASA-CR-54074 N64-22192 15-06

CHEMICAL REACTIONS OF ORGANOBORANES AND CYCLIC SILICON HYDROCARBONS
TR-21 N64-23244 16-07

POLYMERIZATION OF PHENYLENE GROUPS WITH SILICON-NITROGEN-SILICON BONDS BY ALUMINUM ETHOXIDE
NASA-CR-55800 N64-25918 18-06

EMITTANCE MEASUREMENT OF DISILICIDE-TYPE COATINGS N64-27021 19-19

HEAT AND ABRASION RESISTANT PROPERTIES OF SILICON-NITROGEN COMPOUNDS FOR PROTECTIVE COATINGS
REPT.-6784-1533-V N64-27643 19-17

SYNTHETIC REACTIONS FOR PRODUCING ORGANIC SILICON COMPOUNDS
FTD-TT-64-165/1&2 N64-30106 21-07

N-METHYL SUBSTITUTED SILAZANES & SILICON-NITROGEN COMPOUNDS WITH SILICON-METHYLENE-SILICON GROUPING
AD-420486 N64-31234 22-07

QUANTITATIVE DETERMINATION OF DOUBLE BONDS IN UNSATURATED SILICO-ORGANIC COMPOUNDS BY INFRARED ABSORPTION SPECTROSCOPY
FTD-TT-64-458 N64-31978 23-07

EFFECT OF SOLVENTS ON SILICON HYDROGEN STRETCHING VIBRATION STUDIED WITH INFRARED SPECTROPHOTOMETER
GNE/PHYS/64-17 N64-33817 24-07

SILICON FILM
TECHNIQUES FOR VACUUM DEPOSITING SINGLE CRYSTAL SEMICONDUCTOR FILMS OF GERMANIUM OR SILICON ON INSULATING SUBSTRATES
AD-427338 N64-13989 05-25

DEPOSITION OF SILICON OR GERMANIUM FILMS ON POLYCRYSTALLINE INSULATING SUBSTRATES BY VACUUM EVAPORATION
AD-431749 N64-16990 09-25

EPITAXIAL DEPOSITION OF SILICON FILMS ON FOREIGN AND SINGLE CRYSTAL SILICON SUBSTRATES FOR MICROELECTRONICS APPLICATIONS
AD-431993 N64-21370 14-25

TENSILE PROPERTIES OF SILICIDE COATED TITANIUM-ZIRCONIUM-MOLYBDENUM SHEET ALLOY AT ROOM AND ELEVATED TEMPERATURES
A748 N64-22590 15-11

SILICON EPITAXIAL FILMS FOR MICROELECTRONICS AND LARGE AREA SEMICONDUCTOR DEVICES
QR-8 N64-27928 20-25

PHOTOVOLTAGES IN SILICON AND SILICON CARBIDE FILM AND ORIGIN FROM TRAP-INDUCED SPACE CHARGE
NASA-RP-315 N64-30608 22-25

SILICON - ELECTRICAL, OPTICAL, AND MAGNETIC PROPERTIES
DS-137 N64-32106 23-25

EPITAXIAL FILM GROWTH OF SILICON MATERIAL FOR SMALL SIZE ELECTRONIC CIRCUITS
AMC-TR-7-995/VII/ N64-32565 23-25

SILICON JUNCTION
QUALITY CONTROL MANUAL FOR SILICON DIFFUSED MESA SEMICONDUCTOR DEVICES
MP-QRA-102 N64-27778 19-17

QUALITY CONTROL MANUAL - INSPECTION PROCEDURES FOR SILICON NPN GROWN JUNCTION
MPQRA-103 N64-31591 23-17

SILICON OXIDE
CYLINDRICAL CALORIMETER FOR MEASURING HEAT TRANSFER OF SILICON DIOXIDE WITH ALUMINUM POWDER

THROUGH CRYOGENIC INSULATION
NASA-CR-55327 N64-14283 06-13

CERAMIC PROPERTIES OF ZIRCONIUM DIOXIDE-SILICON DIOXIDE SYSTEM
FTD-TT-63-475/1&2 N64-16370 08-19

INTERNAL SILICA CONTAMINATION OF URANIUM, THORIUM, AND YTTRIUM OXIDE FUELS N64-17001 09-23

FAST RESPONSE PLATINUM FILM, SILICON OXIDE TEMPERATURE PROBES FOR SHOCK TUBE STUDY N64-18209 10-15

INFRARED ABSORPTION SPECTRUM OF CERIUM /VALENCE 3/ IN SILICA AND BORAX GLASS N64-20928 14-23

PROPERTIES OF SILICON OXIDE PASSIVATION LAYER FOR MICROELECTRONIC DEVICE RELIABILITY N64-20993 14-17

DIELECTRIC THIN FILM SILICON MONOXIDE CAPACITORS WITH INCREASED BREAKDOWN STRENGTH
AD-600316 N64-22505 15-19

STRUCTURAL ABLATION AND DENSITY OF MOLDED SILICA FIBERS IMPREGNATED WITH PHENOLIC RESIN
A751 N64-22593 15-19

CRYSTALLINE STRUCTURE OF NEW CLOSE GRAINED MODIFICATION OF SILICA
FTD-TT-62-1709/1&2 N64-23290 16-19

SILICA FIBER FORMING & CORE SHEATH COMPOSITE FIBER DEVELOPMENT
AD-438145 N64-25500 17-18

OXYGEN PERMEATION THROUGH VITREOUS SILICA AT HIGH TEMPERATURES
REPT.-63-RL-3515X N64-25837 18-19

ELECTRON MICROGRAPHIC STUDIES AND HARDNESS TESTS MADE OF COPPER-SILICON DIOXIDE ALLOY N64-28844 20-18

BEHAVIOR OF GERMANIUM OXIDE, SILICON OXIDE, AND THEIR MIXTURES AT HIGH TEMPERATURES AND VERY HIGH PRESSURES
TR-8 N64-29021 21-25

SILICA FIBER FORMING AND CORE-SHEATH COMPOSITE FIBER DEVELOPMENT
QPR-3 N64-31159 22-17

FAILURE IN SILICON OXIDE DIODE WAFERS & AMPLIFIERS AND LINEAR AMPLIFIERS
RADC-TDR-64-252 N64-33546 24-09

SILICON POLYMER
SYNTHESIS AND PROPERTIES OF POLYMERS OF NITROGEN-ALKALI DERIVATIVES OF CYCLIC SILAZANES
NASA-CR-52971 N64-11802 03-07

CHEMICAL COMPOSITION, STABILITY, AND ELECTRICAL & MECHANICAL PROPERTIES OF POLYORGANOSILOXANES AND POLYORGANOMETALLIC SILOXANE POLYMERS N64-12807 04-07

PREPARATION METHODS FOR ORGANIC SILICON POLYMERIC COMPOUNDS N64-12808 04-07

ORGANIC SILICON POLYMERS THAT INCLUDE VARIOUS METALS - METALLOSILOXANE POLYMERS N64-12809 04-07

INVESTIGATION OF SILICON-NITROGEN POLYMERS
AD-432136 N64-16841 08-07

CHEMICAL REACTION TO PREPARE ALUMINUM-SILICON POLYMERIC COMPOUNDS
RSIC-134 N64-17480 09-07

PHYSIOLOGICAL AND BEHAVIORAL DATA OF ASTRONAUTS DURING SPACE FLIGHTS
FTD-TT-62-1300/1&2 N64-22622 15-32

SILICON-NITROGEN POLYMERS FOR PROTECTIVE COATINGS ON SPACE VEHICLES
NASA-CR-56415 N64-29549 21-07

SILICONE
PREPARATION OF THERMALLY STABLE CARBORANE SILICONE MATERIALS FOR USE AS EMBEDDING COMPOUNDS AND ELASTOMERS
RMD-5026-F N64-31265 22-07

COMPRESSION-SET BEHAVIOR OF IRRADIATED SILICONE ELASTOMERS COMPRESSED AT CONSTANT STRAIN IN AIR
NARF-63-2T N64-31299 22-19

SILICONE RUBBER
TENSILE STRENGTH IMPROVEMENT OF SILICONE RUBBER BY USING CERTAIN FIBROUS TALCS
QPR-3 N64-14471 06-13

SILOXANE
THERMALLY STABLE CARBORANE SILOXANE MATERIALS USED AS EMBEDDING COMPOUNDS AND ELASTOMERS - DIELECTRIC MATERIALS
RMD-5038-Q1 N64-19801 12-19

SILVER
INTERNAL FRICTION DUE TO OXYGEN IN SINGLE CRYSTAL SILVER WIRE UNDER TORSIONAL STRESS
UCRL-11017 N64-10186 01-18

OXIDATION TESTING, CELLOPHANE DEGRADATION AND MODIFICATION, AND DIFFUSION RATE OF SILVER IONS - ALKALINE BATTERY SEPARATOR
NASA-CR-52491 N64-10368 01-19

SILVER MIGRATION AND TRANSPORT MECHANISM IN SILVER OXIDE-ZINC BATTERIES
ASD-TDR-63-863 N64-10548 01-06

GAS PRODUCTION BY SILVER OXIDE-SILVER ELECTRODES & POWDERS
NASA-CR-53002 N64-13285 04-06

EFFECT OF SILVER ADDITION ON WELDING OF ALUMINUM-MAGNESIUM ALLOYS
ARL/MET-18 N64-14052 05-18

CELLOPHANE TREATMENT BY ANTIOXIDANTS & TOLYLENE DIISOCYANATE, ION EXCHANGE MEMBRANES, AND DIFFUSION & REACTION OF SILVER ION IN SEPARATORS
NASA-CR-55414 N64-14864 06-06

ANODIC BEHAVIOR OF ZINC, MERCURY, AND SILVER IN SELECTED AQUEOUS MEDIA - SYNTHESIS OF BERYLLIUM DI-ALKYLS
NASA-CR-55568 N64-15549 07-06

DIFFUSION OF SILVER IN POLYCRYSTALLINE COPPER AND COPPER-ANTIMONY ALLOY N64-17039 09-25

SELF-DIFFUSION COEFFICIENT AT BOUNDARIES OF GRAINS OF SILVER N64-17043 09-25

THERMAL & ELECTRIC PROPERTIES OF COPPER, SILVER, GOLD, ALUMINUM, & COPPER BASE ALLOYS N64-17072 09-18

ANGULAR AND SPECTRAL DISTRIBUTIONS OF LIGHT EMITTED FROM ELECTRON-BOMBARDED SILVER FOILS
ORNL-3485 N64-17266 09-23

POLARIZATION OF SILVER NUCLEI IN FERROMAGNETIC IRON AND NICKEL METALS
UCRL-11143 N64-17293 09-23

TRANSPORT MECHANISM OF SILVER IN SILVER-ALKALINE CELLS AND SILVER INTERACTION WITH SEPARATOR MATERIALS N64-17418 09-06

VACANCY INTERACTION ENERGIES IN SILVER WIRE FROM ELECTRICAL RESISTIVITY INCREASE
FTD-TT-63-124/1&2 N64-19181 11-25

SILVER MIGRATION AND TRANSPORT MECHANISMS IN SILVER-ZINC BATTERIES
AD-432346 N64-21773 15-06

BEHAVIOR OF SILVER/SILVER CHLORIDE, CHLORIDE ELECTRODE IN AMMONIA N64-22883 16-06

SUBMARINE SAND MOVEMENT STUDY BY GAMMA EMITTING TRACER - SILVER RADIOACTIVE ISOTOPE N64-23147 16-12

CRYSTAL DISLOCATION AND ORIENTATION EFFECT ON DOUBLE LAYER CAPACITY OF SILVER ELECTRODE SURFACES
AD-434716 N64-24061 16-25

SURFACE ENERGY OF SOLID SILVER - LOW TEMPERATURE EXPERIMENTAL DETERMINATIONS N64-29218 21-18

RESISTIVITY CHANGES DURING QUENCHING OF DILUTE BINARY GOLD ALLOYS OF SILVER AND INDIUM N64-30792 22-25

OPTICAL PHOTOEFFECTS OF DISPERSED SILVER FILMS COATED WITH ABSORBED FILMS OF CESIUM AND CESIUM COMPOUNDS
AD-600224 N64-30910 22-25

REINFORCEMENT OF SILVER WITH STEEL FIBERS
IITRI-86020-3 N64-31029 22-18

PRELIMINARY DEFORMATION INFLUENCE ON SELF-DIFFUSION IN SILVER AND ITS ALLOYS N64-31420 23-18

SILVER, RHENIUM, AND RHODIUM GALVANIC COVERINGS FOR PROTECTING TITANIUM ALLOY FROM OXIDATION AND SOLDER COMPONENT INTERACTIONS DURING SOLDERING
FTD-MT-64-48 N64-31883 23-18

ADSORPTION AND EXCHANGE OF OXYGEN ISOTOPES ON OXIDIZED PALLADIUM AND SILVER
REPT.-2 N64-31920 23-07

FABRICATION, RANGES, AND TEMPERATURE COEFFICIENTS OF RESISTORS USING PALLADIUM AND SILVER DISPERSED IN CERAMIC MATRIX
IDR-5 N64-32618 23-17

SILVER ALLOY
TUNGSTEN-SILVER ROCKET NOZZLE MATERIAL - PLASTIC DEFORMATION
WAL-TR-372/32-8-T3 N64-10864 02-18

MECHANICAL PROPERTIES OF MOLYBDENUM AND TUNGSTEN SILVER ALLOYS
WAL-TR-372/32-7-T3 N64-12316 03-18

SPOT WELDING OF PATCHES OF SILVER-LITHIUM & COPPER BRAZING ALLOYS FOR STATIC & SHEAR FATIGUE STRENGTH
FGT-2999 N64-12648 04-18

PLASTIC DEFORMATION AND FAILURE OF SILVER-STEEL FILAMENTARY COMPOSITE MATERIALS
ASRL-TR-94-5 N64-14002 05-33

EFFECT OF CHEMICAL COMPOSITION ON ARTIFICIAL AGE HARDENING & STRESS CORROSION CRACKING OF HIGH STRENGTH ALUMINUM-ZINC-MAGNESIUM-COPPER ALLOYS
RSIC-177 N64-21912 15-18

OPTICAL CONSTANTS OF SILVER CADMIUM ALLOYS NEAR 300 MILLIMICRONS WAVELENGTH RANGE
IS-863 N64-25816 17-18

GRAVITY INDEPENDENT WATER-ELECTROLYTIC CELL WITH PALLADIUM-SILVER ALLOY CATHODE
AMRL-TDR-64-44 N64-27458 19-06

METASTABLE EXTENSION OF SOLUBILITY LIMIT IN SILVER-BASE BINARY ALLOYS OF TIN, ANTIMONY, AND SILICON
TR-14 N64-31289 22-18

PRELIMINARY DEFORMATION INFLUENCE ON SELF-DIFFUSION IN SILVER AND ITS ALLOYS N64-31420 23-18

SILVER BROMIDE
PANCHROMATIC SENSITIZATION OF EVAPORATED FILMS OF SILVER BROMIDE
AL-TDR-64-117 N64-22688 15-07

OPTICAL PROPERTIES OF MONOMODAL AND BIMODAL DISPERSIONS OF SILVER BROMIDE IN LIQUID AND GELATIN SUSPENSIONS
NASA-CR-56307 N64-23987 16-19

LIGHT SCATTERING IN HIGHLY REFLECTING PIGMENTED COATINGS - OPTICAL PROPERTIES OF SILVER BROMIDE SUSPENSIONS IN THIN FILMS
NASA-CR-59144 N64-33164 24-23

SILVER-CADMIUM BATTERY
SILVER-CADMIUM SEALED STORAGE BATTERY - SILVER ELECTRODE UTILIZATION & CHARGE-DISCHARGE TEST
WADD-TR-61-131, PT. 2 N64-11179 02-06

AUXILIARY ELECTRODES TO INCREASE RECOMBINATION RATE OF OXYGEN GENERATED IN SEALED SILVER-CADMIUM CELLS DURING CHARGING
NASA-CR-55014 N64-12025 03-06

SEPARATION, CAPACITY, OVERCHARGE, HERMETIC SEALS, VOLTAGE, AND OTHER CHARACTERISTICS OF SEALED, CADMIUM-SILVER OXIDE BATTERY
FR-12 N64-12871 04-06

ELECTROLYTE TRANSPORT MECHANISM OF SILVER-CADMIUM ALKALINE CELL DURING CHARGE-DISCHARGE CYCLE
AD-404628 N64-15693 07-06

SILVER-CADMIUM BATTERY DEVELOPMENT - PROTOTYPE CASES, CELL CONSTRUCTION & PERFORMANCE AND WATER PERMEABILITY TESTS
NASA-CR-55793 N64-16008 07-06

SILVER-CADMIUM BATTERY DEVELOPMENT - FABRICATION OF CELLS AND CELL CONTAINERS, MOISTURE PERMEABILITY STUDIES FOR CELL CASE MATERIALS
NASA-CR-55791 N64-16009 07-06

TESTING PROCEDURES & CONNECTOR DESIGN FOR SILVER-CADMIUM BATTERY
NASA-CR-55790 N64-16010 07-06

LIGHTWEIGHT SILVER-CADMIUM SECONDARY BATTERY FOR SPACE APPLICATIONS
NASA-CR-55795 N64-16011 07-06

CONTAINERS, BONDING, AND ELECTROLYTES FOR SILVER-CADMIUM BATTERY
NASA-CR-55792 N64-16036 07-06

SILVER-CADMIUM STORAGE BATTERY DESIGN AND DEVELOPMENT
NASA-CR-55633 N64-16273 08-06

TECHNOLOGY OF SEALED CADMIUM-SILVER OXIDE BATTERY N64-17416 09-06

THREE SEALED BATTERY SYSTEMS - NICKEL-CADMIUM, SILVER-CADMIUM, AND SILVER-ZINC FOR SPACECRAFT POWER USE
NASA-SP-5004 N64-18052 10-06

SEALED, RECHARGEABLE SILVER-CADMIUM BATTERY CELLS
AD-434061 N64-18908 11-06

SEPARATION MEMBRANE FOR SILVER OXIDE-ZINC AND SILVER OXIDE-CADMIUM CELLS FOR SPACECRAFT APPLICATION
NASA-CR-56345 N64-23942 16-06

SILVER-CADMIUM BATTERY COUPLE
NASA-CR-57008 N64-24846 17-09

NICKEL-CADMIUM, SILVER-CADMIUM, AND SILVER-ZINC BATTERY SYSTEMS
NASA-CR-56514 N64-25802 17-06

USE OF AUXILIARY ELECTRODES IN SILVER-ZINC AND SILVER-CADMIUM CELLS
NASA-CR-60000 N64-26588 18-06

CYCLE-LIFE TESTS AND RADIATION EFFECTS ON ALKALINE BATTERIES - SILVER-ZINC, SILVER-CADMIUM, AND NICKEL-CADMIUM CELLS
APL-TDR-64-65 N64-26959 18-06

SEPARATORS FOR SILVER OXIDE-ZINC AND SILVER OXIDE-CADMIUM BATTERIES
NASA-CR-57007 N64-27241 19-06

LIFE CYCLE TESTS ON MULTICELL BATTERY PACKS - NICKEL-CADMIUM AND SILVER-CADMIUM BATTERY
NASA-CR-56477 N64-27818 19-06

VENTED, RECHARGEABLE SILVER-CADMIUM CELLS
REPT.-3 N64-28508 20-06

POLYMERS FOR USE AS SEPARATOR FILMS IN SILVER OXIDE-ZINC AND SILVER OXIDE-CADMIUM CELLS FOR USE IN SPACECRAFT
NASA-CR-56943 N64-29171 21-06

LIGHTWEIGHT SILVER-CADMIUM SECONDARY BATTERY FOR SPACE APPLICATIONS
NASA-CR-85 N64-30603 22-06

DESIGN, FABRICATION, AND TESTING OF SEALED, RECHARGEABLE SILVER-CADMIUM CELLS
REPT.-3 N64-32604 23-06

OPERATIONAL PROBLEMS OF SILVER-CADMIUM BATTERY UNDER SPACE ENVIRONMENT
NASA-CR-57014 N64-33187 24-06

SILVER COMPOUND
PANCHROMATIC SENSITIZATION OF EVAPORATED FILMS OF SILVER BROMIDE
AL-TDR-64-117 N64-22688 15-07

SILVER HALIDE
LIGHT SCATTERING IN HIGHLY REFLECTING PIGMENTED COATINGS - SILVER HALIDE CRYSTALS
NASA-CR-52187 N64-10089 01-19

ANNOTATED BIBLIOGRAPHY ON DYE SENSITIZED PHOTOREACTIONS - SILVER HALIDE, FREE RADICAL, AND POLYMERIZATION SENSITIZERS
AL-TDR-64-130, PT. II, VOL. I N64-32214 23-07

SILVER OXIDE
SEPARATION, CAPACITY, OVERCHARGE, HERMETIC SEALS, VOLTAGE, AND OTHER CHARACTERISTICS OF SEALED, CADMIUM-SILVER OXIDE BATTERY
FR-12 N64-12871 04-06

GAS PRODUCTION BY SILVER OXIDE-SILVER ELECTRODES & POWDERS
NASA-CR-53002 N64-13285 04-06

ELECTRIC CELL RESEARCH - HYDROGEN ELECTRODES, SILVER OXIDE ELECTRODES, AND OXYGEN ELECTRODES FOR REGENERATIVE FUEL CELLS
NASA-CR-55664 N64-15536 07-06

HYDROGEN-SILVER OXIDE REGENERATIVE FUEL CELLS
NASA-CR-55849 N64-16766 08-06

HYDROGEN-SILVER OXIDE REGENERATIVE FUEL CELLS
NASA-CR-55848 N64-16767 08-06

SEPARATION MEMBRANE FOR SILVER OXIDE-ZINC AND SILVER OXIDE-CADMIUM CELLS FOR SPACECRAFT APPLICATION
NASA-CR-56345 N64-23942 16-06

POTASSIUM-HYDROXIDE-ATTACK RESISTANT SEPARATOR FOR ZINC-SILVER OXIDE BATTERY
NASA-CR-56363 N64-24032 16-06

FORMATION OF THIN ANODIC FILMS OF SILVER OXIDE
TR-1 N64-25631 17-09

DECOMPOSITION OF SILVER OXIDE IN AQUEOUS POTASSIUM HYDROXIDE
TR-2 N64-30624 22-07

CYCLE LIFE TESTS ON SILVER OXIDE-ZINC AND SILVER OXIDE-CADMIUM CELL SEPARATORS FOR SPACECRAFT APPLICATION
NASA-CR-57013 N64-33186 24-06

SILVER-ZINC BATTERY
SILVER MIGRATION AND TRANSPORT MECHANISM IN SILVER OXIDE-ZINC BATTERIES
ASD-TDR-63-863 N64-10548 01-06

SILVER MIGRATION AND TRANSPORT MECHANISM STUDIES IN SILVER OXIDE-ZINC BATTERIES
AD-296894 N64-15692 07-07

NONMAGNETIC, SEALED, LOW RATE SILVER-OXIDE-ZINC CELLS AS SPACECRAFT COMPONENTS
NASA-CR-55770 N64-16015 07-06

SEALED ZINC-SILVER OXIDE BATTERY
N64-17417 09-06

LOW RATE SEALED ZINC-SILVER OXIDE BATTERIES
N64-17423 09-06

THREE SEALED BATTERY SYSTEMS - NICKEL-CADMIUM, SILVER-CADMIUM, AND SILVER-ZINC FOR SPACECRAFT POWER USE
NASA-SP-5004 N64-18052 10-06

DRY TAPE BATTERY USING SILVER OXIDE-ZINC COUPLE
NASA-CR-56132 N64-20703 13-06

SILVER MIGRATION AND TRANSPORT MECHANISMS IN SILVER-ZINC BATTERIES
AD-432346 N64-21773 15-06

SEPARATION MEMBRANE FOR SILVER OXIDE-ZINC AND SILVER OXIDE-CADMIUM CELLS FOR SPACECRAFT APPLICATION
NASA-CR-56345 N64-23942 16-06

NICKEL-CADMIUM, SILVER-CADMIUM, AND SILVER-ZINC BATTERY SYSTEMS
NASA-CR-56514 N64-25802 17-06

CYCLIC LIFE OF SILVER OXIDE-ZINC BATTERY - ELECTROCHEMISTRY
APL-TDR-64-85 N64-26245 18-06

USE OF AUXILIARY ELECTRODES IN SILVER-ZINC AND SILVER-CADMIUM CELLS
NASA-CR-60000 N64-26588 18-06

CYCLE-LIFE TESTS AND RADIATION EFFECTS ON ALKALINE BATTERIES - SILVER-ZINC, SILVER-CADMIUM, AND NICKEL-CADMIUM CELLS
APL-TDR-64-65 N64-26959 18-06

SEPARATOR MATERIALS FOR ALKALINE SILVER-ZINC SECONDARY BATTERIES N64-30013 21-06

SILVER-ZINC SECONDARY BATTERIES - HYDROGEN EVOLUTION AND PALLADIUM ADDITIONS TO SILVER PLATE
QTPR-4 N64-32883 24-06

IMPROVEMENT OF ZINC ELECTRODES FOR ELECTROCHEMICAL CELLS - MECHANISMS OF ZINC DENDRITE GROWTH IN SILVER-ZINC BATTERIES
NASA-CR-59362 N64-33804 24-06

SIMILARITY HYPOTHESIS
APPLICATION OF THEORY OF SIMILARITY TO GAS TURBINE WORK REGIMES N64-11140 02-06

SOLUTIONS FOR DEVELOPMENT OF LAMINAR BOUNDARY LAYER ON FLAT PLATE BY METHOD OF LOCAL SIMILARITY
TDR-169/3153-01/TN-1 N64-12037 03-11

SIMILARITY RULES OF FLOW OF PERFECTLY CONDUCTING GAS WITH ALIGNED MAGNETIC FIELD
ARL-64-113 N64-27468 19-24

APPLICATION OF SIMILARITY HYPOTHESIS TO HEAT ENGINEERING
RSIC-234 N64-29925 21-13

SIMULATION
SA ANALOG SIMULATION
SA BIOSIMULATION
SA DIGITAL SIMULATION
SA ENVIRONMENT SIMULATION
SA FLIGHT SIMULATION
SA RHEOELECTRICAL SIMULATION
SA SOLAR SIMULATION
SA SPACE SIMULATION
SA THERMAL SIMULATION
MEASUREMENTS OF HYPERVELOCITY STAGNATION POINT HEAT TRANSFER IN SIMULATED VENUSIAN ATMOSPHERE
NASA-CR-52201 N64-10102 01-13

SIMULATION APPARATUS FOR ENTRY OF LONG-RANGE BALLISTIC MISSILES INTO EARTH ATMOSPHERE
NASA-TM-X-51119 N64-10340 01-10

AUTOMATIC DRIVING SYSTEM FOR CRAWLER-MOUNTED PLOWING UNIT BY SIMULATION
JPRS-17525 N64-10628 01-20

TECHNICAL LITERATURE ON SIMULATION FOR AEROSPACE FLIGHT N64-10908 02-10

SIMULATION OF TIME DELAYS WITH STANDARD ANALOG COMPUTER ELEMENTS
EUR-240.F N64-11310 02-20

SIMULATION OF SINGLE-AXIS ATTITUDE CONTROL SYSTEM FOR SATELLITES
SSD-TDR-63-228 N64-11470 03-30

GERMINATION AND GROWTH OF BACTERIAL SPORES IN SIMULATED MARTIAN ENVIRONMENT
SAM-TDR-63-75 N64-12340 03-16

PROTON ACCELERATOR FOR LUMINESCENT EXCITATION IN METEORIC SAMPLES AND PHOTOELECTRIC SPECTRO-PHOTOMETER FOR LUNAR LUMINESCENCE SIMULATION
AFCRL-63-759 N64-12709 04-29

SIMILARITY CONDITIONS OF VACUUM ELECTRONIC SYSTEMS APPLIED TO SIMULATION OF HIGH-POWER ELECTRONIC DEVICES N64-12727 04-09

ZERO-GRAVITY ERECTION SIMULATION OF SATELLITE APPENDAGES
NASA-TM-X-937 N64-12874 04-10

SIMULATION SYSTEM FOR GROUND OPERATIONAL SUPPORT OF MANNED SPACE FLIGHT N64-12882 04-10

SIMULATION OF RENDEZVOUS AND DOCKING SYSTEMS IN SPACE VEHICLE USING IBM 7090 COMPUTER PROGRAM
AMRL-TDR-63-100 N64-13719 04-29

THERMAL RADIATION FIELDS ILLUMINATING A VEHICLE IN SPACE COMPUTED FROM SPACE FLIGHT SIMULATION
AEDC-TDR-63-206 N64-15089 07-10

BIOLOGICAL EFFECT OF MAGNETIC FIELD ON DROSOPHILA
NASA-CR-55625 N64-15346 07-16

ELECTRONIC SIMULATION OF BIOLOGICAL CLOCK - ANIMAL STUDY AND STATISTICAL ANALYSIS
ASD-TDR-63-136 N64-15592 07-16

SIMULATION OF LIFT-INDUCED ACCELERATION AND TRUE SPEED ON PILOT OPINION OF LONGITUDINAL FLYING QUALITIES
ASD-TDR-63-399 N64-16647 08-10

GRAVITY SIMULATION TECHNIQUE FOR STUDIES OF SELF-LOCOMOTION IN LUNAR ENVIRONMENT
NASA-TN-D-2176 N64-16916 09-14

SIMULATION OF THIRD AND FOURTH ORDER RATIONAL TRANSFER FUNCTIONS WITH ADJUSTABLE COEFFICIENTS
COA-NOTE-E&C-1 N64-16919 09-20

PLANETARY ENTRY SIMULATION IN COMBUSTION HYPER-VELOCITY WIND TUNNEL N64-17018 09-10

MAN-MACHINE SYSTEM SIMULATION FOR FLIGHT VEHICLES N64-18159 10-10

SIMULATION METHODS IN SYSTEMS ANALYSIS AS TOOL IN MANAGEMENT PLANNING
TM-765/000/00 N64-19087 11-10

ELECTRODELESS PLASMA ACCELERATOR FOR SIMULATING REENTRY ENVIRONMENTS
ASD-TDR-63-834 N64-19111 11-10

SIMULATED SPACE ENVIRONMENTAL TESTING OF TANKAGE SYSTEMS FOR LONG TERM PROPELLANT STORAGE IN SPACE
RPL-TDR-64-56 N64-19669 12-10

SIMULATION OF METEOROID IMPACT BY IMPINGEMENT OF FOCUSED PULSE OF ENERGY FROM LASER ON TARGET SURFACE
NASA-CR-54029 N64-19788 12-10

BLOOD PRESSURE MEASUREMENTS IN SIMULATED ARTERIES USING AUSCULTATORY TECHNIQUES
NASA-CR-56024 N64-20588 13-16

GEMINI SPACECRAFT REENTRY GUIDANCE SYSTEM SIMULATION
NASA-CR-56127 N64-20707 13-30

LABORATORY SYSTEM FOR SIMULATION OF AERODYNAMIC AND RADIATIVE COOLING OF STRUCTURES
RTD-TDR-63-4235 N64-20863 14-10

SIMULATION OF THIN PLASMA SHEATH BY PLANE OF WIRES
SSD-TDR-64-29 N64-21243 14-24

SIMULATION OF HELICOPTER & V/STOL AIRCRAFT - V/STOL ANALYSIS AND DERIVATION OF MOTION EQUATIONS
NAVTRADEVCEN-1205-2 N64-21244 14-10

SIMULATION OF MOVING SHOCK WAVE INTERACTION WITH HYPERSONIC SHOCK WAVE
FDL-TDR-64-9 N64-21444 14-23

DIGITAL TECHNIQUES FOR RADAR LAND MASS SIMULATION
AD-600347 N64-21804 15-10

LIQUID ROCKET SIMULATION OF SOLID PROPELLANT ROCKET EXHAUST CHARACTERISTICS
PA-TR-3165 N64-22380 15-27

SIMULATION OF RANDOM PROCESSES BY DIOPHANTINE APPROXIMATIONS WITH EXPONENTIAL FUNCTIONS
FTD-TT-62-1367/1&2 N64-22389 15-20

BIBLIOGRAPHY ON ENGINEERING PSYCHOLOGY, TRAINING PSYCHOLOGY, ENVIRONMENTAL STRESS, SIMULATION TECHNIQUES, AND PHYSICAL ANTHROPOLOGY
AD-600804 N64-22515 15-14

SIMULATION OF CONTROLLED TETHERLINE OPERATIONS IN SPACE
MP-1266 N64-23650 16-14

SIMULATION OF SEA WAVE CONDITIONS FOR SHIP DESIGN SEAWORTHINESS TESTING
DTMB-1755 N64-24196 16-23

RADAR MEASUREMENT STANDARDIZATIONS NEEDED FOR SIMULATION STUDIES N64-24717 17-08

SIMULATION OF FULL-SCALE GROUND PLANE RANGE N64-24753 17-08

REENTRY SIMULATION IN ARC HEATED HYPERSONIC WIND TUNNEL
NASA-TN-D-2344 N64-25188 17-10

SIMULATION OF RANDOM DISTURBANCES OF TURBULENT ATMOSPHERE N64-25433 17-02

MEASUREMENT AND SIMULATION OF SPACE ENVIRONMENT - NASA CONFERENCE
NASA-TM-X-55015 N64-28201 20-23

SIMULATION OF SOLAR RADIATION THROUGH KNOWLEDGE OF TOTAL ENERGY AND SPECTRAL DISTRIBUTION OF SOLAR RADIATION AT ZERO MASS N64-28202 20-20

SIMULATION AND CONTROL OF PHYSICAL AND CHEMICAL SYSTEMS
JPRS-26028 N64-28346 20-09

TURBOJET AND RAMJET PERFORMANCE MEASURED AT SIMULATED ALTITUDE N64-28596 20-27

HARMONIC ANALYSIS OF HUMAN PERFORMANCE OF TRACKING IN T-33 AIRCRAFT, IN CENTRIFUGE SIMULATION, AND IN STATIONARY SIMULATION
NADC-AC-6406 N64-28696 20-14

SIMULATION OF ORBITAL MOORING OF GEMINI SPACECRAFT AND AGENA ROCKET WITH DYNAMIC MODELS N64-29263 21-33

EXPLOSIVE GAS GUN FOR VELOCITY SIMULATION OF MACROSCOPIC SPACE PARTICLES
NASA-CR-58677 N64-29406 21-01

ENGINEERING SIMULATION AND COMPUTER PROGRAM OF POWERED SPACE FLIGHT
M-06871 N64-29903 21-10

DYNAMIC RESPONSE OF LAUNCHER UNDERSTRUCTURE DURING SIMULATED ROCKET LOADING
REPT.-10 N64-30052 21-10

PROGRAMMING OF LARGE STOCHASTIC SIMULATION MODEL FOR MONTE CARLO ANALYSIS ON DIGITAL COMPUTER -

STATISTICAL SAMPLING DESIGN
SP-1697/000/00 N64-30233 22-20

COMPUTER PROGRAMS FOR SYSTEMS DESIGN, FILE ORGANIZATION, DOCUMENT ACTIVITY SIMULATION, AND WORD ASSOCIATION FOR INFORMATION RETRIEVAL
RADC-TDR-63-486, APPEND. N64-30553 22-20

DESIGN STUDY FOR ORBITAL OPERATIONS SIMULATION FACILITY
REPT.-64SD472 N64-30899 22-10

THREE-DIMENSIONAL MOTION FOR AIRCRAFT SIMULATING ICBM FOR RADAR TRACKING
ERDA-81 N64-32139 23-04

SIMULATION AND SCALE-UP EFFECTS ON PERFORMANCE OF ROCKET NOZZLE MATERIALS N64-32694 24-17

TEST FACILITY FOR SIMULATION OF LIQUID IMPACT IN SPACE VEHICLE AND BOOSTER TANK
NASA-CR-59016 N64-32897 24-11

POWER HANDLING CAPABILITY AND BREAKDOWN POWER LEVEL OF TYPICAL LINEAR AND CIRCULARLY POLARIZED ANTENNAS IN SIMULATED MARS AND VENUS ATMOSPHERES
NASA-CR-59111 N64-33094 24-08

PARAMETERS TO BE SIMULATED IN DYNAMIC TESTING OF SUBLIMING BODIES IN HYPERSONIC FLOW
TR-453 N64-33586 24-02

NUCLEAR RANKINE CYCLE SPACE POWERPLANT SIMULATION USING DIRECT-CONDENSING RADIATOR - STARTUP AND TRANSIENT OPERATION
NASA-CR-54179 N64-33853 24-27

WIND TUNNEL TESTING TECHNIQUE FOR SIMULATION OF AEROELASTIC EFFECTS ON STRUCTURAL LOADS - STABILITY AND CONTROL RESPONSE OF FULL SCALE VEHICLES
FDL-TDR-64-49, PT. 1 N64-33909 24-10

SIMULATION MODELS FOR AEROSPACE COMMAND AND CONTROL
ESD-TDR-63-659, VOL. II N64-33969 24-10

SIMULATOR
SA COCKPIT SIMULATOR
SA FLIGHT SIMULATOR
SA MISSILE SIMULATOR
SA SHOCK SIMULATOR
SA SOLAR SIMULATOR
SA SPACE CABIN SIMULATOR
SA SPACE SIMULATOR
SA TEST FACILITY
PILOTED SIMULATOR STUDY OF ALTITUDE LOSS BY JET TRANSPORT IN GO-AROUND FROM INSTRUMENT LANDING APPROACH
NASA-TN-D-2060 N64-10267 01-04

INERTIAL SIMULATOR WITH AUTOMATIC DAMPING CONTROL SUITABLE FOR ROTATING MANNED SPACE STATION
NASA-CR-50791 N64-10346 01-10

PILOT CONTROL OF ORBITAL DOCKING OF ATTITUDE-STABILIZED VEHICLE BY VISUAL-CUE GUIDANCE - FIXED-BASE SIMULATOR
NASA-TN-D-2036 N64-12715 04-14

SIMULATION SYSTEMS FOR SUPERSONIC TRANSPORT PROGRAM AND MANNED SPACE FLIGHT
N64-12879 04-10

SUPERSONIC TRANSPORT PROGRAM - GENERAL PURPOSE AIRBORNE SIMULATOR N64-12880 04-10

EXISTING HIGH PERFORMANCE AIRCRAFT AS AIRBORNE SIMULATORS FOR SUPERSONIC TRANSPORT PROGRAM
N64-12881 04-10

PULSE FREQUENCY MODULATION SIMULATOR FOR DESIGN AND TESTING OF TELEMETRY EQUIPMENT FOR SATELLITE SYSTEMS
NASA-TM-X-51336 N64-12946 04-08

FEASIBILITY STUDY OF NUCLEAR BLAST SIMULATOR FOR PRODUCTION OF TRANSIENT FLOW FIELD ASSOCIATED WITH NUCLEAR DETONATIONS
IITRI-6035, VOL. 1, FINAL N64-17478 09-10

SATELLITE MOTION SIMULATOR FOR RESPONSE TESTING OF SPACE VEHICLE ATTITUDE CONTROL SYSTEM
NASA-TM-X-51643 N64-19938 12-10

GEMINI-AGENA DOCKING USING FIXED AND MOVING-BASE SIMULATORS
AIAA PAPER-64-334 N64-21352 14-32

MINATURE NONLINEAR ELECTRONIC SIMULATOR FOR STUDYING SYSTEMS DYNAMICS AND OBJECTS UNDER AUTOMATIC CONTROL
FTD-TT-62-1236/1&2 N64-21652 15-10

HEAT ABSORPTION CAPABILITY OF CRYOGENIC SHROUD IN SPACE ENVIRONMENT SIMULATOR
REPT.-00.482 N64-25276 17-13

RESEARCH SIMULATOR FOR STUDYING CONTROL AND DISPLAY PROBLEMS OF V/STOL AIRCRAFT
REPT.-2120-920002 N64-26659 18-04

OPERATING ENVELOPES OF SUPERSONIC ELECTAIC ARC AIR HEATERS FOR REENTRY ENVIRONMENT SIMULATORS
NASA-CR-99 N64-28307 20-10

DIGITAL COMPUTER PROGRAM FOR SOLVING REACTOR KINETICS EQUATIONS
NAA-SR-9943 N64-28668 20-23

DOPPLER EFFECT MEASUREMENTS, FAST POWER BREEDER REACTOR, AND SODIUM VOID COEFFICIENTS
ANL-6838 N64-32300 23-23

SIMULATION OF LANDING DYNAMICS IN LUNAR AND PLANETARY GRAVITATIONAL FIELDS AND PERFORMANCE OF PILOT MODEL SIMULATOR
NASA-TN-D-2415 N64-32406 23-10

SIMULATOR TRAINING
PILOT PERFORMANCE & TRAINING EVALUATION BY MISSION SIMULATION FOR LONG TERM SPACE FLIGHT
N64-10910 02-30

LOW VISIBILITY SIMULATION FOR PILOT TRAINING
ARL/HE-17 N64-26051 18-04

TARGET SIGNAL REALISM IN SIMULATOR TRAINING OF SONAR OPERATORS
NAVTRADEVCEN-1320-1 N64-30895 22-10

SINE WAVE
PROBABILITY DENSITIES DEFINED BY ZERO CROSSING POINTS OF ENVELOPE OF SINE WAVE PLUS GAUSSIAN PROCESS
TR-AF-108 N64-26041 18-23

MATHEMATICAL MODEL OF SINE WAVE PLUS NOISE FOR PARAMETRIC ANALYSIS OF TAPE RECORDER PERTURBATIONS
NASA-CR-58127 N64-26374 18-09

SINGLE CRYSTAL
SINGLE CRYSTAL GALLIUM PHOSPHIDE PREPARATION BY EPITAXIAL DEPOSITION ON SINGLE CRYSTAL GALLIUM ARSENIDE FOR SOLAR CELL USE
NASA-CR-52140 N64-10111 01-06

INTERNAL FRICTION DUE TO OXYGEN IN SINGLE CRYSTAL SILVER WIRE UNDER TORSIONAL STRESS
UCRL-11017 N64-10186 01-18

ZONE REFINING OF TUNGSTEN AND RESISTANCE MEASUREMENTS OF SINGLE CRYSTALS
Q-B-1973-3 N64-10242 01-18

POLAROID X-RAY CAMERA FOR DETERMINING ORIENTATION OF SINGLE CRYSTAL FILMS & ALIGNING CRYSTALS
N64-10307 01-23

THERMOCONDUCTIVITY OF SINGLE-CRYSTAL COLUMNAR GRAINS IN IRRADIATED URANIUM DIOXIDE FUEL ELEMENTS
AECL-1822 N64-10376 01-13

SINGLE CRYSTAL X-RAY DIFFRACTION PATTERN FOR HODGKINSONITE MINERAL
SC-4964/RR/ N64-10427 01-12

SILICON SINGLE CRYSTAL - EXPOSING DISLOCATIONS BY ETCHING
N64-10706 02-18

DISLOCATIONS IN SILICON SINGLE CRYSTALS ON DISSOLUTION
N64-10741 02-25

CUTTING ALUMINUM SINGLE CRYSTALS, DISLOCATIONS IN DEFORMED METALS, & STRENGTH OF METAL TO CERAMIC BOND
JPRS-18889
N64-11215 02-18

COMPUTER PROGRAM FOR DETERMINATION OF SINGLE CRYSTAL ORIENTATION
LA-2974
N64-11389 02-26

GROWING OF URANIUM DIOXIDE SINGLE CRYSTALS FROM VAPOR
EUR-345.E
N64-11399 02-28

TWINNING MECHANISM IN SINGLE CRYSTAL DEFORMATION OF A MOLYBDENUM-RHENIUM ALLOY
N64-11528 03-25

THERMAL DECOMPOSITION OF SINGLE CRYSTALS OF GALLIUM ARSENIDE
TDR-269/4250-11/-1
N64-12051 03-25

DUCTILE BENDING IN FACE CENTERED CUBIC IONIC SINGLE CRYSTALS
NASA-TR-R-186
N64-12108 03-25

SINGLE CRYSTAL NICKEL OXIDE FROM NICKEL SULFATE BY VERNEUIL METHOD
E-T-J-63-3
N64-12276 03-25

ZONE ELECTRON BEAM MELTING AND PRODUCTION OF SINGLE CRYSTALS OF REFRACTORY METALS
N64-12447 04-25

LASER MATERIALS - SELECTION, SYNTHESIS & DOPING OF HOST MATERIAL, SINGLE CRYSTAL GROWTH
N64-12561 04-25

X-RAY DIFFRACTION METHODS APPLIED TO SUBSTRUCTURE AND DISLOCATION DISTRIBUTION OF SINGLE CRYSTAL AND POLYCRYSTALLINE ALUMINUM
N64-12763 04-25

ANISOTROPY OF MAGNETIC PROPERTIES OF METAL SINGLE CRYSTALS AT CRYOGENIC TEMPERATURES
FTD-TT-63-518/1&2
N64-12840 04-23

IRRADIATION OF SINGLE CRYSTAL URANIUM OXIDE & EFFECTS ON CRYSTAL STRUCTURE
HW-73959
N64-13015 04-25

GROWTH OF SINGLE CRYSTAL GALLIUM PHOSPHIDE FOR SEMICONDUCTORS
AD-424770
N64-13079 04-15

MAGNETOSTRICTION CONSTANT AND STRUCTURE OF IRON SILICIDE SINGLE CRYSTALS
E-T-R-63-4
N64-13132 04-19

ORIENTED COPPER SINGLE CRYSTAL GROWTH, CHEMICAL POLISHING, ELECTROCHEMICAL CUTTING, AND TENSION & COMPRESSION GRIPS
RAC-921-1
N64-13603 05-25

LOW ENERGY ELECTRON DIFFRACTION APPARATUS FOR STUDYING SURFACE & STRUCTURE OF SINGLE CRYSTAL METALS & SEMICONDUCTORS
ARL-63-197
N64-13636 05-25

MOLYBDENUM SINGLE CRYSTAL GROWTH FROM GASEOUS PHASE OF MOLYBDENUM CHLORIDE BY THERMAL DISSOCIATION
N64-13730 05-25

X-RAY PHOTOGRAPHIC STUDY OF BERYLLIUM SINGLE CRYSTAL COMPRESSION AND DEFORMATION AFTER ZONE RECRYSTALLIZATION
N64-13738 05-18

DOUBLE-PHOTON INDUCED PHOTOELECTRIC EMISSION FROM ZINC SINGLE CRYSTALS ACTIVATED BY LASER BEAM
N64-13799 05-25

SINGLE CRYSTAL GROWTH BY ELECTROCHEMICAL TECHNIQUES
AFCRL-63-542
N64-13801 05-25

MECHANICAL PROPERTIES OF BAR-SHAPED SILICON CARBIDE SINGLE CRYSTALS
AD-427371
N64-13860 05-19

GROWTH OF SINGLE CRYSTAL GERMANIUM FILMS BY ELECTRON BEAM MELTING
NASA-CR-55315
N64-13913 05-25

SINGLE CRYSTAL GALLIUM PHOSPHIDE FOR SOLAR CELLS
NASA-CR-55311
N64-13935 05-06

TECHNIQUES FOR VACUUM DEPOSITING SINGLE CRYSTAL SEMICONDUCTOR FILMS OF GERMANIUM OR SILICON ON INSULATING SUBSTRATES
AD-427338
N64-13969 05-25

EXPONENTIAL TEMPERATURE DEPENDENCE OF ELASTIC MODULI OF SINGLE CRYSTAL AND POLYCRYSTALLINE MAGNESIUM OXIDE
AROD-2891-10
N64-13989 05-25

ADHESION OF NICKEL, NICKEL-TITANIUM, & NICKEL-CHROMIUM DROPS TO ALUMINUM OXIDE SINGLE CRYSTAL PLAQUES
AMRA-CR-63-01/4
N64-13998 05-19

DIFFUSION OF IRON INTO SINGLE CRYSTAL MAGNESIUM OXIDE
UCRL-11073
N64-14069 05-25

DIFFUSION COEFFICIENT OF TANTALUM IN SINGLE CRYSTAL GERMANIUM
FTD-MT-63-107
N64-14386 06-25

TECHNIQUES FOR PREPARATION OF SINGLE CRYSTAL TELLURIUM
MEMO-2900
N64-14482 06-25

PRESSURE DERIVATIVES OF SINGLE CRYSTAL ELASTIC CONSTANTS OF POTASSIUM
TR-7
N64-14490 06-25

DIRECTIONAL DEPENDENCE OF SELF-DIFFUSION COEFFICIENT FOR ANTHRACENE SINGLE CRYSTALS
B2130-T-2
N64-14705 06-25

SPECULAR REFLECTANCE ON SINGLE CRYSTALS AND ABSORPTION ON THIN FILMS OF RUTILE
N64-15012 07-23

SPONTANEOUS SHIFTING OF DISLOCATIONS IN SINGLE CRYSTALS OF LITHIUM FLUORIDE
N64-15017 07-25

OPTICAL CONSTANT MEASURING METHOD FOR SINGLE CRYSTALS OF TUNGSTEN, MOLYBDENUM, AND NIOBIUM
AFCRL-63-547
N64-15067 07-23

FABRICATION OF LARGE, THIN, SILICON SINGLE CRYSTALS
N64-15490 07-25

FATIGUE PROCESSES IN MAGNESIUM OXIDE SINGLE CRYSTALS
AD-429227
N64-15956 07-25

INFRARED TRANSMISSION AND REFLECTION MEASUREMENTS OF SEMICONDUCTING MAGNESIUM STANNIDE SINGLE CRYSTALS OF VARYING IMPURITY CONCENTRATIONS
AFCRL-63-534
N64-16091 07-25

FATIGUE OF COPPER SINGLE CRYSTALS
RAC-921-2
N64-16659 08-25

LIVERMORE POOL TYPE REACTOR SINGLE-CRYSTAL NEUTRON SPECTROMETER AND MEASUREMENTS
UCRL-7611
N64-16673 08-23

SINGLE CRYSTAL AND X-RAY DIFFRACTION METHODS FOR STUDING CRYSTAL STRUCTURE OF LEAD CHLORIDE
N64-16687 08-25

DEFORMATION MECHANISM OF ALUMINUM SINGLE CRYSTALS AT VARIOUS TEMPERATURES
N64-17049 09-25

SOLUBILITY OF METAL OXIDES IN SUPERCRITICAL AQUEOUS SOLUTIONS IN STUDY OF SINGLE CRYSTAL GROWTH
AFCRL-64-38
N64-17124 09-25

PRODUCTION OF SINGLE CRYSTAL LITHIUM FLUORIDE WITH SELECTED LITHIUM ISOTOPE RATIOS

ORNL-3341 N64-17254 09-25

DISLOCATION CONFIGURATIONS IN ZONE-MELTED SINGLE CRYSTAL MOLYBDENUM N64-17448 09-25

ELECTRON PROJECTION DIODE FOR STUDYING THERMIONIC EMISSION FROM SINGLE CRYSTAL REFRACTORY METAL FILAMENTS - RECRYSTALLIZED MOLYBDENUM DATA
AFCRL-64-234 N64-17449 09-25

BERYLLIUM OXIDE SINGLE CRYSTALS FOR MICRO-ELECTRONICS
NASA-CR-55913 N64-17669 09-19

EFFECT OF POLYSLIP ON STRAIN HARDENING IN ALUMINUM SINGLE CRYSTALS
UCRL-11160 N64-17706 09-25

INTERDIFFUSION IN METALLIC SINGLE CRYSTALS
AD-433509 N64-17808 09-25

GROWTH OF SINGLE CRYSTAL TUNGSTEN FILAMENT AND VACUUM MEASUREMENTS OF ELECTRON EMISSION FROM FILAMENT N64-17904 10-23

VAPOR PHASE GROWTH OF SINGLE CRYSTALS
AFCRL-64-57 N64-17920 10-25

PHOTOVOLTAGES, PHOTOCURRENTS, AND ABSORBED GASES IN CADMIUM SULFIDE SINGLE CRYSTALS
RADC-TDR-64-95 N64-17966 10-23

HIGH FREQUENCY TREATMENT OF CADMIUM SULFIDE SINGLE CRYSTAL TO INCREASE CONDUCTIVITY N64-17968 10-25

NARROW LINE PARAMAGNETIC RESONANCE ABSORPTIONS IN SINGLE CRYSTALS OF CALCITE
RADC-TDR-64-34 N64-18031 10-25

DISPROPORTIONATION GROWTH OF EPITAXIAL GERMANIUM, AND REDUCTION GROWTH OF SINGLE CRYSTALS
AFCRL-64-63 N64-18038 10-25

TORQUE & ROTATIONAL HYSTERESIS IN FACE-CENTERED-CUBIC SINGLE CRYSTAL COBALT FILMS
AFCRL-64-41 N64-18059 10-25

VOIDS IN AGED, SINGLE CRYSTAL, THIN PERMALLOY FILMS GROWN EPITAXIALLY ON SODIUM CHLORIDE
AFCRL-64-42 N64-18060 10-25

SYMMETRICAL CHANGES IN SINGLE CRYSTAL LATTICE DUE TO X-RAY RADIATION
NLCO-903 N64-18638 11-25

MECHANICAL PROPERTIES & RECRYSTALLIZATION OF SINGLE CRYSTALS OF MOLYBDENUM
FTD-MT-63-43/1&2 N64-18670 11-18

REINFORCEMENT OF IRON- AND NICKEL-CHROMIUM ALLOYS WITH SINGLE CRYSTAL ALUMINA FIBERS
AD-435044 N64-18772 11-18

SINGLE-CRYSTAL ORIENTER SETTING
AD-434156 N64-18776 11-15

SINGLE-CRYSTAL X-RAY ANALYSIS OF 1-ETHYLDECABORANE MOLECULAR STRUCTURE N64-18808 11-07

SURFACE TOPOGRAPHY OF SINGLE CRYSTALS OF FACE-CENTERED-CUBIC, BODY-CENTERED-CUBIC, SODIUM CHLORIDE, DIAMOND, AND ZINC BLENDE STRUCTURES
NASA-TN-D-2275 N64-18960 11-25

COMPUTER PROGRAM FOR PROCESSING INTENSITY DATA COLLECTED ON SINGLE CRYSTAL ORIENTER
LA-3043 N64-19018 11-25

SPIN-WAVE ANISOTROPY IN PARALLEL PUMPING EXPERIMENTS AT X-BAND FREQUENCIES - SINGLE CRYSTAL YTTRIUM-IRON GARNET
AFCRL-64-14 N64-19124 11-25

ELECTRIC PROPERTIES OF SINGLE CRYSTALS OF ALLOYS OF LEAD TELLURIDE AND TIN TELLURIDE
AD-430561 N64-19270 11-09

SINGLE CRYSTAL & SEMICONDUCTOR DEVICES AND RADIATION DAMAGE EFFECTS OF SOLAR CELLS N64-19384 12-06

WATER ADSORPTION ON GERMANIUM OXIDE POWDER, AND RESISTANCE CHANGES OF THIN SINGLE CRYSTALS OF GERMANIUM DUE TO ADSORPTION
AD-434381 N64-19550 12-25

SILICON CARBIDE SINGLE CRYSTALS FACTOR STUDY AND METHOD OF PRODUCTION
AD-437383 N64-19562 12-25

CURRENT-VOLTAGE CHARACTERISTICS OF CESIUM THERMIONIC CONVERTER WITH SINGLE CRYSTAL MOLYBDENUM EMITTER
ASD-TDR-63-748 N64-19641 12-06

SINGLE CRYSTALS OF URANIUM MONOCARBIDE PREPARED FROM ARC-MELTED RODS
NAA-SR-7465 N64-19711 12-25

MICROWAVE RESONANCE PROPERTIES OF SINGLE CRYSTAL FERRITES WITH UNIAXIAL ANISOTROPY
USAELRDL-TR-2384 N64-20448 13-25

SINGLE CRYSTAL GALLIUM PHOSPHIDE SOLAR CELL
NASA-CR-53986 N64-20585 13-25

TENSILE PROPERTIES OF PYROLYTIC TUNGSTEN FROM 1370 TO 2980 DEG IN VACUUM
NASA-CR-53992 N64-20610 13-18

GROWTH OF SINGLE CRYSTAL BERYLLIUM OXIDE FOR USE AS SUBSTRATE IN MICROELECTRONIC DEVICES
NASA-CR-56190 N64-20815 14-19

FIELD EMISSION FROM SINGLE CRYSTALS OF GRAPHITE
ANL-6804 N64-20836 14-23

DEPOSITION OF EPITAXIAL THIN FILM ON SINGLE CRYSTAL METALS
AD-600149 N64-20903 14-25

PREPARATION OF SINGLE CRYSTALS OF CALCIUM FLUORIDE BY ZONAL FUSION N64-20929 14-25

EPITAXIAL DEPOSITION OF SILICON FILMS ON FOREIGN AND SINGLE CRYSTAL SILICON SUBSTRATES FOR MICROELECTRONICS APPLICATIONS
AD-431993 N64-21370 14-25

ELASTIC STIFFNESS COEFFICIENTS OF SINGLE CRYSTAL IRON AT ROOM AND LIQUID NITROGEN TEMPERATURES
AD-435780 N64-21418 14-25

ORIENTATION DEPENDENCE OF CRITICAL MICROWAVE FIELD STRENGTH IN PARALLEL FIELD OF MANGANESE-MAGNESIUM COBALT-FERRITE SINGLE CRYSTAL
AFCRL-63-55 N64-21470 14-25

FREQUENCY AND TEMPERATURE RESPONSE OF POLARIZATION OF THIN SINGLE CRYSTAL BARIUM TITANATE
TR-188 N64-22005 15-23

GROWTH TWINNING IN BARIUM TITANATE CERAMICS AND SINGLE CRYSTAL INTERACTIONS
AD-434228 N64-22205 15-19

EFFECT OF ELECTRIC FIELD ON GREEN FLUORESCENCE TRANSITION SPECTRUM OF ERBIUM IN SINGLE CRYSTAL CALCIUM FLUORIDE
RTD-TDR-63-4017 N64-22209 15-24

TITANIUM OXIDE COATING ON SINGLE CRYSTAL ALUMINA FIBERS
TR-2 N64-22522 15-18

CREEP AND BENDING STRAIN RATE MEASUREMENTS OF TITANIUM DIOXIDE SINGLE CRYSTALS AT HIGH TEMPERATURES
ML-TDR-64-114 N64-22564 15-25

STRUCTURE OF SINGLE CRYSTAL GRAPHITE OBSERVED BY ELECTRON MICROSCOPY
AD-600760 N64-22720 15-19

X-RAY INVESTIGATION OF FATIGUE OF SINGLE CRYSTALS OF ALUMINUM AT NORMAL AND LOW TEMPERATURES N64-23033 16-33

X-RAY INVESTIGATION OF FATIGUE MECHANISM IN SINGLE CRYSTALS OF METALS AT NORMAL AND LOW TEMPERATURES
N64-23834 16-33

SINGLE CRYSTAL METAL BASE TRANSISTOR
TP-64-4 N64-24139 16-09

NOISE EQUIVALENT POWER OF BARIUM TITANATE SINGLE CRYSTALS AND CERAMICS
NASA-CR-44 N64-24825 17-09

INHIBITED DISSOLUTION OF SURFACES OF SINGLE CRYSTALS OF LITHIUM FLUORIDE
TR-2 N64-26021 18-07

PRODUCTION AND DIELECTRIC PROPERTIES OF SINGLE CRYSTALS OF SOLID SOLUTION OF LEAD METANIOBATE
FTD-TT-64-320/1&2&4 N64-26117 18-25

OBSERVING MAGNETOSTRICTIVE EFFECT OF SINGLE CRYSTAL OF DYSPROSIUM
NOLTR-64-30 N64-26230 18-25

STRESS-STRAIN BEHAVIOR OF STRONTIUM ZIRCONATE SINGLE CRYSTALS
BMPR-3 N64-26268 18-19

CRACK FORMATION AND FAILURE PROCESSES IN LITHIUM FLUORIDE SINGLE CRYSTALS
MET-E-1160-0464-QP1 N64-26427 18-33

THERMIONIC TRANSDUCER, CONVERTER, DIODES, SINGLE CRYSTAL ELECTRON WORK FUNCTION, TUNGSTEN ELECTRON EMISSION, AND SURFACE DIFFUSION FROM CALCIUM TO TUNGSTEN
WGLR-2/1964 N64-26756 18-06

PRODUCTION AND THERMIONIC EMISSION DATA OF TUNGSTEN AND MOLYBDENUM SINGLE CRYSTALS
AFCRL-64-410 N64-26895 18-25

ANISOTROPY OF COEFFICIENT OF ION-ELECTRON EMISSION IN SINGLE CRYSTALS
FTD-TT-64-130/1&2&4 N64-27080 19-25

MOSSBAUER QUADRUPOLE RESONANCE IN IRON 57 SINGLE CRYSTALS
TR-4 N64-28275 20-23

PHOTOMAGNETOELECTRIC DETECTOR OF CADMIUM SULFIDE SINGLE CRYSTALS AND TRANSPORT PROPERTIES OF ROLLED THIN BISMUTH FOIL
RADC-TDR-64-349 N64-28560 20-25

DETECTION OF POLYETHYLENE SINGLE CRYSTALS DEPOSITED ON REFLECTING SUBSTRATE USING INCIDENT LIGHT MICROSCOPE N64-28650 20-25

MICROSTRAIN AND LOW FREQUENCY HYSTERETIC DISLOCATION DAMPING IN COPPER SINGLE CRYSTALS
NASA-CR-58586 N64-28999 20-25

GROWTH OF COPPER CRYSTALS OF LOW DISLOCATION DENSITY N64-29096 21-25

PREPARATION OF HIGH PURITY IRON SINGLE CRYSTALS BY FLOAT-ZONE AND ELECTRON BEAM ZONE REFINING OF POLYCRYSTALLINE MATERIAL N64-29097 21-25

GROWTH AND PROPERTIES OF FILAMENTARY SINGLE CRYSTALS OF PURE METALS - COPPER, SILVER, GOLD, AND ALUMINUM
ASD-TDR-63-641 N64-29250 21-25

TEMPERATURE EFFECT ON MICROSTRAIN POINTS IN PRESTRAINED MAGNESIUM SINGLE CRYSTALS
N64-29537 21-18

ROOM-TEMPERATURE SLIP IN ZONE-MELTED TUNGSTEN SINGLE CRYSTALS - PLASTIC DEFORMATION
NASA-RP-312 N64-30607 22-18

ELECTRON PARAMAGETIC RESONANCE SPECTRUM OF IRRADIATED SINGLE CRYSTALS OF ICE AT CRYOGENIC TEMPERATURES N64-30784 22-07

DEFORMATION TEXTURE, RECRYSTALLIZATION, AND TRANSITION TEMPERATURE OF MOLYBDENUM SINGLE CRYSTALS
BM-RI-6539 N64-30821 22-18

CRACK INITIATION IN CRYSTALLINE MATERIALS OBSERVED THROUGH PURE TUNGSTEN, TITANIUM ALLOY, AND LITHIUM FLUORIDE SINGLE CRYSTALS
SURI-MET-1160-0764-IT N64-30963 22-18

DUCTILE-BRITTLE BEHAVIOR OF TITANIUM CARBIDE SINGLE CRYSTALS
PR-1 N64-31286 22-18

GROWTH & CHARACTERIZATION OF SINGLE CRYSTALS OF RARE EARTH COMPOUNDS
QTR-1 N64-31625 23-25

ANGULAR VARIATION OF COERCIVITY IN ORTHOFERRITE SINGLE CRYSTALS - HYSTERESIS CURVE RECORDING WITH VIBRATING SAMPLE MAGNETOMETER
TN-6 N64-31814 23-25

FRESH, AGED, GROWN-IN, AND HIGH TEMPERATURE DISLOCATIONS IN INITIATION OF PLASTIC FLOW IN MAGNESIUM OXIDE SINGLE CRYSTALS
TR-24 N64-32061 23-18

NONELASTIC STRAIN RECOVERY OF COPPER SINGLE CRYSTALS AFTER SMALL PRESTRAINS
NASA-CR-58782 N64-32885 24-11

DYNAMIC DEFORMATION OF SINGLE CRYSTAL AND POLYCRYSTALLINE SPECIMENS OF HIGH PURITY ALUMINA
TR-2 N64-32952 24-18

SINK
SA HEAT SINK
SINKAGE OF FLAT PLATES IN THIN FILMS OF VISCOUS FLUIDS OVER SMOOTH AND ROUGH SURFACES - MODEL OF RUBBER TIRE ROLLING ON WET PAVEMENT
N64-19050 11-23

SINTERING
CF POWDER METALLURGY
SINTERED ALUMINUM OXIDE BONDING USING SILICATE BRAZING FOR REACTOR CLADDING
EUR-274.F N64-10034 01-19

EMANATION OF THORON FROM SINTERED URANIUM DIOXIDE POWDER AND PLATE AS FUNCTION OF TEMPERATURE
WAPD-276 N64-10365 01-23

WORKABILITY AND PRACTICAL EMPLOYMENT OF SINTERED ALUMINUM PRODUCTS - EXTRUSION, DRAWING, & ROLLING
EUR-428.I N64-10450 01-17

ISOTHERMAL SINTERING OF POWDERED COPPER, NICKEL, AND IRON UNDER PRESSURE
JPRS-18245 N64-10574 01-18

SINTERED ALUMINUM POWDER HIGH-TEMPERATURE MATERIAL
JPRS-17818 N64-10635 01-18

OXIDE SINTERING BY ELECTROCONDUCTIVITY
JPRS-18350 N64-10640 01-09

VERTICAL SINTERING FURNACE WITH IMPROVED CHARACTERISTICS
JPRS-19429 N64-10656 01-18

POWDER METALLURGY STUDIES ON CREEP, SINTERING, CHROMIUM CARBIDE, AND DIFFUSION SATURATION
JPRS-17499 N64-10685 02-18

LAWS OF DEFORMATION APPLIED TO SINTERING AS DEFORMING DUE TO SURFACE TENSION
N64-10687 02-18

BRAZING AND WELDING OF SINTERED ALUMINUM POWDER
JPRS-18187 N64-10750 02-18

SINTERED POWDER METAL-CERAMIC FRICTION MATERIALS FOR CLUTCH AND BRAKE USE - COPPER, TIN, SILICA, AND GRAPHITE
JPRS-20291 N64-10841 02-19

POWDERED METAL MATERIALS - SINTERING
JPRS-17887 N64-11007 02-01

SINTERING CHROMIUM BORIDE POWDER UNDER PRESSURE TO FORM COMPACTED RECTANGULAR AND CYLINDRICAL SHAPES

N64-11008 02-18

HIGH VACUUM SINTERING-ALLOYING OF TITANIUM CARBIDE AND MOLYBDENUM, AND HEAT PRESSING
N64-11010 02-18

PLASTICIZER, EXTRUSION, AND SINTERING FOR FORMING RODS FROM REFRACTORY POWDERS N64-11012 02-17

LARGE TUNGSTEN CRYSTALLITES GROWN BY RECRYSTALLIZATION DURING SINTERING OF TUNGSTEN SAMPLES N64-11019 02-25

LOW-TEMPERATURE SINTERING OF MOLYBDENUM
N64-11021 02-18

COMPACTION AND SINTERING OF PLUTONIUM OXIDE STAINLESS STEEL PELLETS
LAMS-2898 N64-11205 02-17

SINTERED ALUMINUM POWDER - ELECTRON MICROSCOPE STUDY OF STRUCTURAL CHANGES DURING HEATING
JPRS-22219 N64-11362 02-18

STRUCTURE AND PROPERTIES OF SINTERED ALUMINUM POWDER N64-11828 03-18

SPOT WELDING OF SINTERED ALUMINUM POWDER WITH ALUMINUM ALLOYS
JPRS-22422 N64-12010 03-17

INTERNAL FRICTION AND DYNAMIC ELASTIC MODULUS OF SINTERED ALUMINUM POWDER
EUR-402.1 N64-13141 04-23

PHYSICAL PROPERTIES, ROLLING, AND SINTERING METAL POWDERS
JPRS-22933 N64-15006 07-01

INFLUENCE OF POROSITY ON PHYSICAL PROPERTIES OF SINTERED METAL POWDERS N64-15010 07-18

MECHANICAL STRENGTH OF SINTERED METAL POWDERS
N64-17060 09-18

BRAZING SINTERED ALUMINUM POWDERS
JPRS-24355 N64-18979 11-17

STRUCTURAL CHANGES IN ALUMINA IN MOLTEN SINTERED ALUMINUM POWDER - METALLURGY
EUR-589.F N64-19040 11-18

POWDER METALLURGY - SINTERING TUNGSTEN POWDER, PLASTIC FLOW IN SINTERED GLASS, AND FOAMED METAL STRUCTURES
AD-437378 N64-19163 11-18

PLASTIC DEFORMATION MECHANISMS IN SINTERED ALUMINUM POWDER
EUR-550.F N64-20875 14-33

EFFECTS OF COLD WORKING ON MECHANICAL PROPERTIES OF PRECIPITATION HARDENED SINTERED ALUMINUM POWDER PRODUCTS
EUR-433.D N64-21003 14-18

DILATOMETRICAL ANALYSIS OF SINTERED ALUMINUM POWDER WITH VARIOUS OXIDE CONTENTS
EUR-1613.I N64-21195 14-18

MIXING MECHANISMS STUDY BY MEASURING AMOUNT OF SPINEL FORMED BY SINTERING ALUMINUM & MAGNESIUM OXIDE POWDERS
ASD-TDR-62-732, PT. II N64-21236 14-17

ACTIVATED SINTERING OF BODY CENTERED CUBIC METALS BY HIGH FREQUENCY INDUCTION HEATING
GPR-4.5 N64-22083 15-18

DEVICE FOR REMOVING SINTER FROM SURFACE OF STEEL HOT-ROLLED BAND WITH ABRASIVE MATERIAL
FTD-TT-62-1291/1&2 N64-22150 15-17

SINTERING PROCESS MECHANISMS, STRUCTURE, AND MECHANICAL PROPERTIES OF TUNGSTEN AND TITANIUM CARBIDES
AROD-2262-6 N64-22333 15-19

SINTERING, QUALITY CONTROL, AND CRYSTAL STRUCTURE OF REFRACTORY MATERIALS
FTD-TT-63-323/1&4 N64-22347 15-07

PROPERTIES, FABRICATION METHODS, AND ENGINEERING APPLICATIONS OF SINTERED CORUNDUM
FTD-TT-62-912/1&2 N64-22388 15-18

PREPARATION AND MECHANICAL PROPERTIES OF PORCELAIN WITH MAXIMUM SINTERING TEMPERATURE
N64-27045 19-19

SINTERING OF IRON-BONDED TITANIUM CARBIDES AND DETERMINATION OF MECHANICAL PROPERTIES
N64-28095 20-18

ELECTRON MICROSCOPIC INVESTIGATION OF ANNEALED AND ION BOMBARDED SINTERED ALUMINUM POWDER FOILS
EUR-1833.E N64-28132 20-18

SINTERING OF METAL OXIDES
REPT.-02832-16-1 N64-28459 20-18

MORPHOLOGY OF MICROPOROUS PARTICLES AND SINTERING OF COBALT OXIDE POWDERS
REPT.-488 N64-28583 20-18

SINTERED AND INFILTRATED PSEUDO-ALLOYS OF NIOBIUM AND TANTALUM
AD-442530 N64-29639 21-18

TUNGSTEN SHEET FABRICATION USING ULTRAFINE TUNGSTEN METAL POWDER, COLD PRESSING, AND SINTERING PROCESSES
ASC-TR-8-107 /V/ N64-29900 21-18

SINTERING, THERMOCONDUCTIVITY, THERMAL EXPANSION, RESISTIVITY, HARDNESS, & CRACK RESISTANCE OF SINTERED URANIUM OXIDE-ZIRCONIUM OXIDE BLENDS
BMI-1689 N64-30768 22-25

METALLURGICAL STUDIES - SINTERING OF METAL POWDERS AND RELATION BETWEEN TEMPERATURE AND DEFORMATION IN METALS
JPRS-26543 N64-31467 23-18

SOURCES OF EXCESS VACANCIES DURING SINTERING OF METAL POWDERS N64-31468 23-18

SINTERED ALUMINUM POWDER SHEET IN MACHINE BUILDING
JPRS-27004 N64-33343 24-18

COMPRESSIBILITY COMPARISONS, HOT PRESSING, SINTERING, PLASMA SPRAYING, AND SLIP CASTING TECHNIQUES FOR POWDER METALLURGY
N64-33509 24-18

SINUS
IDENTIFICATION OF RUDIMENTARY SENSORY ORGAN AT JUNCTION OF INFERIOR UTRICULAR SINUS AND SEMICIRCULAR CANAL IN MAN AND OTHER MAMMALS - PHYSIOLOGY
NASA-CR-59374 N64-33906 24-16

SINUSOID
ACCURACY LIMITATIONS FOR PILOT-TONE TIME-BASE CORRECTION SYSTEM BY ADDITION OF STABLE SINUSOID
SSD-TDR-64-9 N64-16447 08-08

TRANSIENT AND SINUSOIDAL THERMAL DIFFUSION, CONVECTION, AND RELATED INFRASONIC PRESSURE CHANGES IN ENCLOSED FLUIDS
NOLTR-62-94 N64-18360 10-11

HUMAN PERFORMANCE DURING SINUSOIDAL AND RANDOM VIBRATION IN LOW SPEED, HIGH ALTITUDE FLIGHT
N64-31512 23-14

SITE
SATELLITE COMMUNICATIONS - PROPAGATION, ANTENNA AND RECEIVER FACTORS, COMPUTER USE, AND GROUND STATION SITING N64-18242 10-09

TERMINAL SITES FOR TRANSOCEANIC DUCT PROPAGATION MEASUREMENTS
AFCRL-63-862, PT. II N64-21908 15-08

EFFECT OF GEOPHYSICAL AND GEODETIC UNCERTAINTIES AT LAUNCH AREA ON BALLISTIC MISSILE IMPACT ACCURACY

BSD-TDR-63-256, REISSUE A N64-25244 17-29

SIZE
S DROP SIZE
S PARTICLE SIZE
S SIZE PERCEPTION

SIZE PERCEPTION
EFFECT OF SORTING PROCEDURE ON ACCURACY OF ORDINAL RANKING - SIZE PERCEPTION
PRL-TDR-64-1 N64-21299 14-01

ADJACENCY PRINCIPLE APPLIED TO PERCEPTION OF RELATIVE DEPTH FROM SIZE CUES
CARI-63-28 N64-23619 16-16

METHODS OF SIZE PERCEPTION AND COUNTING PARTICLES IN HYDRAULIC FLUIDS AND LUBRICANTS
ML-TDR-64-72 N64-30652 22-15

SKELETON
CF BONE
SOME DISTRIBUTION CHARACTERISTICS OF STRONTIUM 90 IN SKELETONS OF DOGS AFTER SINGLE AND LONG-TERM DOSES
JPRS-21997 N64-10389 01-16

CALCIUM AND PHOSPHORUS DIETARY SUPPLEMENT AS MEANS OF REDUCING STRONTIUM-90 ACCUMULATION IN SKELETAL BONES OF RATS N64-12444 04-16

MATRIX THEORY FOR FORCE, DEFLECTION, AND STRESS CALCULATION FOR LINEAR-ELASTIC SKELETAL STRUCTURES
WAPD-TM-417 N64-26611 18-34

SKID LANDING
FACTORS AFFECTING FRICTION COEFFICIENT BETWEEN TIRES AND PAVEMENT SURFACES, AND PROBLEM OF SKID LANDINGS
R-303 N64-30675 22-04

SKID LANDING GEAR DEVELOPMENT FOR X-20 AIRCRAFT
SEG-TDR-64-17 N64-30935 22-17

SKIMMER
OPERATION OF SKIMMER NOZZLE AND APPLICATION TO CONDENSATION COLLOIDAL ION SOURCE
R-90 N64-21046 14-26

OPERATION OF SKIMMER NOZZLE AND USE AS COLLOIDAL ION SOURCE AND FOR SYNTHESIS OF CHEMICAL SUBSTANCES, CLUSTER IONS, OR CHARGED BODIES
TN-R-90 N64-30760 22-27

SKIN
CF STRUCTURAL MATERIAL
SENSITIVE MAGNETIC BALANCE FOR DIRECT MEASUREMENT OF SKIN FRICTION DRAG
REPT.-O-71000/3R-29 N64-19298 12-15

REENTRY HEAT CONDUCTION OF SPACE VEHICLE SKIN WITH VARIABLE THERMOCONDUCTIVITY
NASA-RP-167 N64-20200 13-13

ACOUSTIC AND RANDOM VIBRATION FATIGUE TEST OF STRUCTURAL SKIN PANELS FOR TITAN III ICBM
SSD-CR-64-95 N64-21110 14-33

AERODYNAMIC HEATING AND HEAT TRANSFER FROM SKIN OF ROCKETS AND MISSILES
FTD-TT-63-390/1&2 N64-29586 21-13

WELDING CHARACTERISTICS OF SKIN MATERIALS FOR SUPERSONIC TRANSPORTS
BNJV-D-Q-1 N64-32286 23-18

FABRICATION OF MAGNESIUM ALLOY AIRFRAME SKIN
AD-442883 N64-32677 23-17

SKIN /BIOL/
SA DERMATOLOGY
REMOVAL OF LARGE AREA OF SKIN DUE TO THERMAL RADIATION INJURY N64-10008 01-16

MORPHOLGICAL CHANGES IN INTERNAL ORGANS AND SKIN FROM LOCAL ULTRASONIC IRRADIATION
JPRS-21776 N64-10207 01-16

HUMAN SKIN REACTION TO ACUTE LOCAL EXPOSURE TO RADIATION N64-12784 04-16

ELECTROSLEEP INFLUENCE ON THERMOREGULATION REFLEX AND ELECTRIC RESISTANCE OF SKIN IN PATIENTS WITH PRURITIC DERMATOSIS
RSIC-105 N64-13812 05-16

CHANGES IN EPITHELIUM OF RATS UNDER INFLUENCE OF RADIATION
JPRS-22556 N64-14251 06-16

TEMPERATURE REACTION OF SKIN DURING LOW INTENSITY MICROWAVE IRRADIATION
JPRS-23287 N64-15335 07-16

ELECTROPHYSIOLOGIC CHARACTERISTICS AND INTERPRETATION OF SKIN POTENTIALS
SAM-TDR-63-95 N64-15570 07-16

DERMATOLOGICAL STUDIES AND CUTANEOUS TOXICITY OF CHEMICAL COMPOUNDS
AMRL-TDR-64-13 N64-18932 11-16

DISTRIBUTION OF BLOOD FLOW IN HUMAN SKIN
AD-405777 N64-20445 13-16

DISTRIBUTION OF BLOOD FLOW IN HUMAN SKIN
AD-411171 N64-25383 17-16

DETERMINING HEART PARAMETERS ON BASIS OF SKIN POTENTIAL MEASUREMENTS - MATHEMATICAL MODEL RELATING VENTRICULAR DIPOLES TO SURFACE POTENTIALS
RM-4138-NIH N64-26475 18-16

BIOLOGY AND MEDICAL STUDIES - SKIN PERCEPTION, NERVOUS SYSTEM, AND RADIATION SICKNESS
JPRS-26725 N64-32776 24-16

SKIN VISION - TACTILE, VIBRATIONAL, THERMAL, AND COLOR SENSITIVITY OF SKIN OF FINGERS N64-32778 24-16

RELATION BETWEEN OPTIC AND SKIN PERCEPTION OF LIGHT IN MAN N64-32779 24-16

SKIN FRICTION
BOUNDARY-LAYER VELOCITY PROFILES AND SKIN FRICTION OF OGIVE CYLINDER AT SUPERSONIC SPEED - SURFACE ROUGHNESS EFFECT
NASA-TN-D-2048 N64-11555 03-11

FLAT PLATE SKIN FRICTION NEAR SHARP LEADING EDGES IN LOW DENSITY HYPERSONIC FLOW
ARL-63-224 N64-14693 06-11

SKIN FRICTION AND STABILITY OF LAMINAR BOUNDARY LAYER ON FLAT PLATE WITH MASS TRANSFER
RM-3485-PR N64-16043 07-12

SIMPLIFIED ANALYSIS OF SKIN FRICTION AND HEAT TRANSFER IN BINARY BOUNDARY LAYER FLOW ON FLAT PLATES
RM-2872-PR N64-16472 08-11

SURFACE PITOT TUBE AS SKIN FRICTION METERS IN SUPERSONIC TURBULENT BOUNDARY LAYERS
ARC-R&M-3351 N64-18153 10-15

NUMERICAL EXPERIMENTS IN WEATHER FORECASTING INDICATING ROLE OF SKIN FRICTION IN 5-LAYER BAROCLINIC MODEL
AFCRL-64-109 N64-18192 10-21

SKIN FRICTION MEASUREMENTS USING SURFACE PITOT TUBES IN FREE FLIGHT AT SUPERSONIC SPEEDS
ARC-CP-711 N64-18327 10-11

PLANFORM MODIFICATION EFFECTS ON SKIN FRICTION DRAG OF AIRCRAFT WING AND CONTROL SURFACES
NASA-RP-170 N64-21274 14-03

RELATION BETWEEN SKIN FRICTION AND HEAT TRANSFER ON SURFACE OF SPHERE AT SUPERSONIC SPEEDS - PRESSURE DISTRIBUTION AND BOUNDARY LAYER MEASUREMENTS
DTMB-AERO-1054 N64-25518 17-13

EFFECT OF AIR INJECTION THROUGH POROUS SURFACE AND SLOTS ON TURBULENT SKIN FRICTION AT MACH 3

NASA-TN-D-2427 N64-28327 20-11

EXTENSION OF EXPERIMENTAL SKIN FRICTION DATA TO VERY HIGH REYNOLDS NUMBER RANGE
REPT.-0-71000/4R-9 N64-29671 21-11

SKIN FRICTION MEASUREMENTS BY PRESTON TUBE
DRL-513 N64-33652 24-11

EFFECTS OF SCREENS AND HONEYCOMB ON SKIN FRICTION VARIATIONS IN LOW SPEED WIND TUNNELS
TN-64-7 N64-33734 24-10

REDUCTION OF SKIN FRICTION WITH LOW ENERGY AIR INJECTION THROUGH DISCRETE SLOTS INTO TURBULENT BOUNDARY LAYER
NASA-TN-D-2102 N64-34018 24-11

SKIN RESISTANCE
EFFECT OF ADJACENT COOLING ON GALVANIC SKIN RESPONSE AND SKIN RESISTANCE OF ISOTHERMAL AREA
SAM-TDR-63-70 N64-32602 23-16

SKIN TEMPERATURE /BIOL/
S TEMPERATURE CONTROL

SKY
STATISTICAL ANALYSIS OF SURFACE WIND VELOCITY, SKY CONDITION, AND VISIBILITY
ERDA-88 N64-12925 04-12

DIFFUSION OF PARTICLES FROM SOURCES OF AIR POLLUTION AND CRITERIA FOR LIMITS OF POLLUTION IN TERMS OF SKY BRIGHTNESS NEAR SUN
AFCRL-63-240 N64-18402 10-28

OBLIQUE INCIDENCE PULSE MEASUREMENTS AT 100-KC FOR SERARATING GROUND WAVE & SKY WAVE TIME MODES
N64-19686 12-08

BIBLIOGRAPHY ON SKY BRIGHTNESS, LIGHT POLARIZATION, AND CORONA PHOTOMETRY DURING SOLAR ECLIPSES
AID-B-64-20 N64-20468 13-28

TWILIGHT SKY & NOCTILUCENT CLOUD PHOTOMETRIC OBSERVATION N64-23669 16-12

ELECTROMAGNETIC SOUND WAVES FROM SKY
P-2894 N64-25888 18-29

SKY BRIGHTNESS MEASUREMENTS IN VISUAL AND ULTRAVIOLET REGIONS OF SPECTRUM - MULTIPLE LIGHT SCATTERING
NASA-TT-F-8955 N64-30848 22-28

SKY WAVE FIELD FROM DIPOLE ANTENNA IN ARBITRARY MIXED LAND-SEA AREA - ELECTROMAGNETIC PROPAGATION
AFCRL-64-509 N64-30896 22-08

APPARENT SKY TEMPERATURE MEASUREMENTS AT MILLIMETER-WAVE FREQUENCIES
AFCRL-64-590 N64-31809 23-21

SKY RADIATION
CF AIRGLOW
MEASUREMENTS OF NIGHT SKY RADIATIONS AT MAGNETIC EQUATOR
AFCRL-63-736 N64-17859 10-12

OBSERVING NIGHT-SKY EMISSION AND AURORAS
N64-21885 15-12

OBSERVATIONS OF CONTINUUM OF TWILIGHT-SKY EMISSION
N64-21888 15-12

EFFECT OF CLOUDS ON ULTRAVIOLET SKY RADIATION
AFCRL-64-565 N64-27434 19-21

POLAR AURORA PHENOMENA AND NIGHT SKY RADIATION
N64-29079 21-12

SKYBOLT VEHICLE
SKYBOLT INTEGRATING ACCELEROMETER
REPT.-63SD543 N64-25750 17-15

SLAB
SOLUTION OF INITIAL VALUE PROBLEM INVOLVING TIME-DEPENDENT NEUTRON TRANSPORT EQUATION IN FINITE SLAB
TID-18884 N64-13951 05-23

MONTE CARLO PROGRAM FOR ESTIMATING EPITHERMAL CAPTURE RATES IN SLABS
WAPD-TM-407 N64-15178 07-23

MONTE CARLO CODE FOR NUCLEAR COLLISION DENSITY OF PRIMARY GALACTIC PROTONS IN ALUMINUM SLAB
NASA-TN-D-2122 N64-17295 09-23

CRITICAL DIMENSIONS OF URANIUM-GRAPHITE-WATER SPHERES, INFINITE SLABS, AND INFINITE CYLINDERS
LAMS-2955 N64-20885 14-23

IBM 7090 COMPUTER CODE USING MONTE CARLO METHOD /FANTASIA II AND TRIPROD II/ FOR NEUTRON TRANSMISSION THROUGH LAMINATED SLABS
ML-TDR-64-52 N64-24387 17-23

TRANSIENT TEMPERATURE CALCULATION FOR MULTILAYER SLAB WITH TIME DEPENDENT CONVECTION HEATING
TN-R-97 N64-25551 17-13

MONTE CARLO COMPUTATION OF 1-MEV GAMMA RAY SCATTERING BY CONCRETE SLABS
TO-B-64-31 N64-25815 17-23

SPECTRAL ANALYSIS OF TRANSPORT KERNEL FOR ANISOTROPIC NEUTRON SCATTERING IN FINITE SLABS
RM-3807-PR N64-31176 22-23

COMPUTER PROGRAM USING MONTE CARLO METHOD FOR REFLECTION AND TRANSMISSION OF GAMMA RAYS AND NEUTRONS IN HOMOGENEOUS AND HETEROGENEOUS SLABS
TO-B-63-73 N64-31251 22-23

MODIFIED LEGENDRE POLYNOMIAL APPROXIMATIONS TO NEUTRON TRANSPORT EQUATION FOR SLAB GEOMETRIES
DTMB-1814 N64-31298 22-23

SLAG
THEORETICAL BASIS FOR SYNTHESIS OF GLASS-CERAMIC MATERIALS FROM METALLURGICAL SLAG
FTD-TT-63-753/1&2 N64-11544 03-19

POLAROGRAPHIC DETERMINATION OF IRON IN ORES & SLAG
RSIC-15 N64-12265 03-18

PHYSICAL CHEMISTRY OF MOLTEN SALTS AND SLAGS
AEC-TR-5948 N64-13946 05-07

EXTRACTING ALUMINUM OXIDE FROM BLAST-FURNACE SLAG
N64-31418 23-07

SOLAR SAIL AS POWER SOURCE FOR SATELLITE MANEUVERS AND CONVERSION OF SLAGS TO FERTILIZER POWDER
FTD-64-617/1&2&3&4 N64-32239 23-23

SLED
WIND TUNNEL TEST OF TRANSONIC SLED
AEDC-TDR-63-252 N64-12050 03-02

RIGID BODY VIBRATIONS OF ROCKET SLEDS AND SHAKE TEST METHOD OF OBTAINING INERTIA AND ELASTIC CONSTANTS
MDC-TDR-63-1 N64-12938 04-33

PORTABLE TIME CODE GENERATOR FOR SLED OPERATION
AD-429069 N64-14838 06-15

ROCKET SLED FOR AERODYNAMIC TRACK TEST OF MISSILE
NOTS-TP-3316 N64-22537 15-10

THEORETICAL ANALYSIS OF FORCED VIBRATION RESPONSE OF ROCKET SLED TO RANDOM EXCITATION DUE TO RAIL ROUGHNESS
NAVWEPS-8546 N64-32538 23-10

PARACHUTE DESIGN AND PERFORMANCE DATA ON ROCKET-POWERED SLED TESTS - HIGH DYNAMIC PRESSURE OPERATION
FDL-TDR-64-66 N64-33270 24-04

SLEEP
SA HIBERNATION
ELECTRIC SLEEP - NEUROTROPIC TREATMENT OF ESSENTIAL HYPERTENSION N64-10484 02-14

INDUCED SLEEP FOR CURE OF CHRONIC INSOMNIA, BRONCHIAL ASTHMA, ULCERS, AND HYPERTENSION
JPRS-18021 N64-11621 03-16

ELECTROSLEEP INFLUENCE ON THERMOREGULATION REFLEX AND ELECTRIC RESISTANCE OF SKIN IN PATIENTS WITH PRURITIC DERMATOSIS
RSIC-105 N64-13812 05-16

METHODS USED TO ADMINISTER ELECTRICALLY INDUCED SLEEP
JPRS-23524 N64-16002 07-16

CORTICAL-SUBCORTICAL RELATIONSHIPS OF CHIMPANZEE DURING DIFFERENT PHASES OF SLEEP - EEG COMPUTER ANALYSIS
NASA-CR-55689 N64-16324 08-16

ELECTRONARCOSIS OF LOWER VERTEBRATES AND COMBINATION WITH DRUG NARCOSIS IN MAMMALS
FTD-TT-63-931/1&2 N64-24064 16-14

STABILITY OF ELECTROENCEPHALOGRAM TRACINGS IN SLEEP
NASA-CR-56908 N64-27395 19-16

MEDICAL MONITORING OF HEART RATE PATTERNS DURING CONDITIONS OF SLEEP, QUIET REST, BREATH-HOLDING, HYPOXIA, AND INCREASED G FORCES OF AIRCRAFT FLIGHT
N64-28950 20-16

EFFECT OF SLEEP DEPRIVATION AND DEMANDING WORK-REST SCHEDULE ON CREW PERFORMANCE
AMRL-TDR-64-63 N64-31827 23-14

ELECTRICAL ACTIVITY OF CORTEX AND DEEP BRAIN STRUCTURES OF MACAQUE MONKEY DURING SLEEP USING BIPOLAR SURFACE & IMPLANTED ELECTROENCEPHALOGRAPH ELECTRODES
NASA-CR-59001 N64-33041 24-16

SLENDER BODY
PRESSURE AND FORCE MEASUREMENT ON A SLENDER, BLUNT, CONE-CYLINDER-FLARE CONFIGURATION AT HYPERSONIC SPEED
ARC-CP-657 N64-10138 01-02

AFTERBODY GEOMETRY AND STING DIAMETER EFFECT ON AERODYNAMICS OF SLENDER BODIES AT SUPERSONIC SPEED
NASA-TN-D-2042 N64-10335 01-02

LATERAL MOTION OF AIRCRAFT WITH INERTIALLY SLENDER CONFIGURATION
ARC-R&M-3334 N64-13384 04-04

AERODYNAMIC PHENOMENA ASSOCIATED WITH HIGH PERFORMANCE, SLENDER REENTRY VEHICLES
N64-15631 07-30

EQUILIBRIUM COMPOSITION & TEMPERATURES CALCULATED IN WAKE OF SLENDER ABLATING BODY
EOS-RN-22 N64-15811 07-13

NAVIER-STOKES EQUATIONS USING OSEEN APPROXIMATION FOR SOLUTION OF SLIP FLOW PAST SLENDER POINTED BODIES
COA-160 N64-16921 09-02

INCOMPRESSIBLE LAMINAR AXISYMMETRIC WAKE BEHIND SLENDER CYLINDRICAL BODY IN AXIAL FLOW
AS-64-5 N64-20083 13-11

VARIATION OF NORMAL FORCE WITH ANGLE OF ATTACK FOR SLENDER BODY-WING COMBINATIONS EXHIBITING FLOW SEPARATION
VIDYA-92 N64-21162 14-02

EFFECTS OF CESIUM AND SODIUM IN ABLATING SURFACE OF POINTED CONES ON AIR IONIZATION IN BOUNDARY LAYER
R64SD22 N64-30658 22-11

HYPERSONIC FLOW PERTURBATIONS AS SOLUTION TO FLOW PROBLEMS AROUND SLENDER BLUNT BODIES
FTD-MT-64-59 N64-31772 23-02

TURBULENCE IN BLUNT- AND SLENDER-BODY HYPERSONIC WAKE FLOWS
TR-64-02H N64-32027 23-11

AERODYNAMIC CHARACTERISTICS OF SLENDER CONICAL AND FLAT PLATE BODIES AT HIGH SUPERSONIC SPEEDS
RAC-2451 N64-32470 23-02

SLENDER WING
THICKNESS CORRECTION TO SLENDER THIN-WING THEORY TESTED BY APPLICATION TO CONES AND RHOMBIC CROSS SECTIONS
ARC-CP-659 N64-10239 01-03

UNSTEADY MOTION OF SLENDER WINGS WITH LEADING EDGE VORTICES
NPL-AERO-1087 N64-25718 17-03

AERODYNAMIC CHARACTERISTICS OF SLENDER CAMBERED GOTHIC WINGS AT TRANSONIC SPEEDS
ARC-R&M-3370 N64-28083 20-03

ABILITY OF SLENDER WING AIRCRAFT TO PERFORM SIDESTEP MANEUVER AT APPROACH SPEEDS
ARC-R&M-3359 N64-28103 20-04

WIND TUNNEL USED TO DETERMINE PERFORMANCE OF SLENDER WINGS SUITABLE FOR SUPERSONIC TRANSPORT AIRCRAFT
ARC-CP-742 N64-28770 20-03

AERODYNAMIC CHARACTERISTICS OF SLENDER CAMBERED GOTHIC WINGS AT TRANSONIC SPEEDS
N64-29331 21-03

SLIP
STEADY-STATE CHARACTERISTICS OF DIFFERENTIAL PRESSURE SYSTEM FOR EVALUATING ANGLES OF ATTACK AND SIDESLIP OF RANGER IV VEHICLE
NASA-TN-D-1966 N64-10519 01-02

IN-FLIGHT CALIBRATION OF SIDESLIP VANES USING FLAT TURN TECHNIQUE
COA-AERO-168 N64-14236 06-03

SLIP MECHANISMS IN PLASTIC DEFORMATION OF CRYSTALS NEAR YEILD POINT - FORMATION OF MICROCRACK NUCLEI
N64-29062 21-24

EFFECTS OF RING, BRUSH, & INSULATOR MATERIALS ON ELECTRICAL NOISE AND MECHANICAL WEAR IN MINIATURE SLIP-RING ASSEMBLIES
NASA-CR-58666 N64-29693 21-17

ROOM-TEMPERATURE SLIP IN ZONE-MELTED TUNGSTEN SINGLE CRYSTALS - PLASTIC DEFORMATION
NASA-RP-312 N64-30607 22-18

SLIP BAND
ELECTRICAL SLIP BAND EMPLOYING ROLLING CONTACT ELEMENT TESTED IN HARD VACUUM ENVIRONMENT
NASA-TN-D-2261 N64-17752 09-09

SLIP FLOW
ELECTRON MICROSCOPE STUDY OF SLIP FLOW TRANSITION IN DEFORMATION OF COPPER-GOLD AND COPPER-PALLADIUM ALLOYS N64-10747 02-18

SLIP EFFECTS ON COMPRESSIBLE LAMINAR BOUNDARY LAYER OVER SLENDER BODIES OF REVOLUTION WITH ZERO PRESSURE GRADIENT
NOLTR-63-85 N64-14086 05-02

INSENSITIVITY OF HEAT TRANSFER TO INCLUSION OF FIRST ORDER SLIP BOUNDARY CONDITIONS FOR SIMILAR LAMINAR HYPERSONIC BOUNDARY LAYERS
P-2780 N64-15848 07-13

RAREFIED HIGH TEMPERATURE HYPERSONIC SLIP FLOW OVER FLAT PLATE WITH SHARP LEADING EDGE
AD-432130 N64-16854 08-02

NAVIER-STOKES EQUATIONS USING OSEEN APPROXIMATION FOR SOLUTION OF SLIP FLOW PAST SLENDER POINTED BODIES
COA-160 N64-16921 09-02

APPROXIMATION OF EIGENVALUES FOR HEAT TRANSFER IN LAMINAR TUBE SLIP FLOW
NASA-RP-161 N64-21273 14-13

LAMINAR SLIP FLOW HEAT TRANSFER IN PARALLEL-PLATE CHANNEL OR ROUND TUBE WITH UNIFORM WALL HEATING

NASA-TN-D-2393 N64-26417 18-02

HEAT TRANSFER FOR LAMINAR SLIP FLOW OF RAREFIED GAS BETWEEN PARALLEL PLATES WITH UNSYMMETRICAL WALL HEAT FLUX
NASA-TN-D-2421 N64-26780 18-13

GAS BEARING WITH AND WITHOUT SLIP FLOW
N64-27193 19-11

FLOW OF LOW-DENSITY AIR OVER HEATED FLAT PLATE IN SUBSONIC WIND TUNNEL
UTIAS-92 N64-27965 20-11

SLIP FLOW AND TEMPERATURE JUMP BOUNDARY CONDITIONS FOR RAREFIED GASES
NASA-RP-294 N64-28230 20-13

CESIUM VAPOR EFFLUX PATTERNS AND FLOW RATES FROM CYLINDRICAL TUBES DETERMINED IN FREE MOLECULE AND SLIP FLOW REGIMES
NASA-TN-D-2480 N64-28652 20-11

HEAT TRANSFER FOR LAMINAR SLIP FLOW OF RAREFIED GAS IN CHANNEL OR TUBE WITH UNIFORM WALL TEMPERATURE
NASA-TN-D-2213 N64-33081 24-13

SLOPE
SA INCLINATION
BIBLIOGRAPHY OF WIND WAVES AND SEA SLOPE MEASUREMENT
SRB-63-4 N64-15981 07-12

SLOSHING
VISCOUS DAMPING OF LIQUID SLOSHING IN SPHERICAL TANKS
NASA-TN-D-1991 N64-11235 02-11

HYDRODYNAMIC FORCES FROM SLOSHING LIQUID PROPELLANTS IN MISSILE FUEL TANKS
ONERA-TP-136 N64-24004 16-11

MEASURING FORCES GENERATED BY SLOSHING OF LIQUIDS IN MISSILES
ONERA-TP-123 N64-25550 17-26

LIQUID SLOSHING IN COMPARTMENTED PROPELLANT TANKS DUE TO BENDING EXCITATION
NASA-TM-X-51944 N64-28831 20-11

SLOT
SA SLOTTED ANTENNA
NUMERICAL SOLUTIONS OF FREE MOLECULAR FLOW IN CONVERGING AND DIVERGING TUBES AND SLOTS
NASA-TN-D-2330 N64-21271 14-02

TWO-DIMENSIONAL BLOWING SLOT TO MEASURE DOWNSTREAM CHARACTERISTICS OF TURBULENT WALL JET IN STILL AIR
TN-64-50 N64-25192 17-10

FLUX PATTERNS FROM FREE MOLECULAR GAS FLOW THROUGH CONVERGING AND DIVERGING SLOTS
NASA-TN-D-1864 N64-30996 22-11

ROCK STRESS MEASUREMENT WITH HYDRAULIC EQUIPMENT AND FLAT SLOTS
BM-RI-6537 N64-31254 22-15

DIRECT OSCILLATORY DERIVATIVE MEASUREMENTS FOR LINEAR BENDING MODE ON RIGID HALF-SPAN MODELS AT SUBSONIC AND TRANSONIC SPEEDS IN CLOSED AND SLOTTED WIND TUNNEL
ARC-R&M-3376 N64-33255 24-02

SLOT ANTENNA
ANTENNA PRINCIPLES OF LOG-PERIODIC SLOT ARRAYS
AD-434190 N64-18197 10-09

PARAMETRIC AMPLIFIER ANTENNA STRUCTURES - DUAL COAXIAL LINE MEASUREMENTS AND SLOT ANTENNA STUDIES
AFCRL-64-648 N64-31995 23-08

SLOTTED ANTENNA
STATIC MAGNETIC FIELD EFFECT ON RADIATION PATTERN OF PLASMA COATED SLOT ANTENNA
AFCRL-63-347 N64-12193 03-24

IONIZED FLOW FIELD ABOUT HEMISPHERE CYLINDER AND EFFECT ON RADIATION PATTERN OF SLOT ANTENNA
AFCRL-63-339 N64-12195 03-09

SLOTTED CYLINDER ANTENNA FOR ROCKET-BORNE RADIOSONDE APPLICATIONS
USAELRDL-TR-2368 N64-13870 05-08

ADMITTANCE OF ANNULAR SLOT ANTENNAS RADIATING INTO PLASMA LAYER
AFCRL-63-395 N64-14118 05-24

ADMITTANCE & VOLTAGE DISTRIBUTION FOR RECTANGULAR CAVITY OR WAVEGUIDE-BACKED SLOT ANTENNA COVERED BY FINITE PLASMA LAYER RADIATING INTO FREE SPACE
AFCRL-63-393 N64-14199 06-24

RADIATION FROM SLOTTED-CYLINDER ANTENNAS IN REENTRY PLASMA ENVIRONMENT
NASA-TN-D-2187 N64-15048 07-24

COMPLETE RADIATION PATTERN OF AXIAL ANTENNA SLOT ON PLASMA-CLAD CYLINDER, FOR USE IN REENTRY VEHICLE COMMUNICATIONS ENGINEERING
USCEC-82-201 N64-15077 07-09

RADIATION PATTERNS FROM AXIAL SLOT ON INFINITE CIRCULAR CYLINDER WITH RADIALLY INHONOGENEOUS PLASMA COATING
USCEC-82-210 N64-15805 07-24

COAXIAL AMPLITUDE-INSENSITIVE PHASE-DETECTION SYSTEM - SLOT TRANSMISSION LINE AND SLOT ANTENNA
TR-398 N64-15941 07-08

PHASE SHIFT DEVICE AND INTEGRATION OF TRANSISTOR AMPLIFIER INTO SLOTTED AND SPIRAL ANTENNAS
REPT.-1566-7 N64-16071 07-09

HIGH TEMPERATURE MATERIALS AND SLOTTED ANTENNAS TO OPERATE IN HIGH TEMPERATURE ENVIRONMENT
CAL-UB-1807-E-2 N64-16855 08-09

STRATIFIED PLASMA RADIATING INTO WAVEGUIDE SLOT - ANTENNA
AFCRL-63-394 N64-18336 10-24

CURRENT AND FIELD DISTRIBUTION ON PLANAR AND CURVED SLOT ARRAYS - YAGI ANTENNA FOLDED BACK FORMING CIRCULAR SLOT ARRAY
TECH. REPT.-427 N64-20022 13-09

SLOTTED ANTENNA STUDIES - BIBLIOGRAPHY
SB-63-4 N64-20891 14-09

OPTIMAL USE OF FERRITES IN RECTANGULAR SLOT RADIATORS AND ANNULAR SLOT ANTENNAS
REPT.-5549-6-P N64-21364 14-09

LOG SPIRAL ANTENNAS AND FERRITE LOADING OF SLOTTED ANTENNAS FOR ULTRAHIGH FREQUENCY AND VERY HIGH FREQUENCY RANGE
REPT.-5549-9-P N64-21415 14-09

LOG-PERIODIC CAVITY BACKED SLOT ANTENNA
TR-78 N64-26941 18-08

PLASMA LAYER EFFECT ON VOLTAGE DISTRIBUTION OF SLOT ANTENNA
RR-346 N64-27780 19-08

RECTANGULAR CAVITY SLOT ANTENNA WITH DIELECTRIC OR MAGNETIC LOADING
TR-147 N64-29791 21-08

ANTENNA IMPEDANCE DETERMINATION FROM SLOTTED LINE MEASUREMENTS - LINE ATTENUATION
AFCRL-64-682 N64-31997 23-08

SLOW NEUTRON
SLOW NEUTRON SCATTERING FROM ANHARMONIC CRYSTALS - DAMPING THEORY AND SCATTERING CROSS SECTION
N64-14916 06-23

ANGULAR DISTRIBUTION OF GAMMA RAY EMISSION IN SLOW NEUTRON FISSION OF URANIUM-235 AND PLUTONIUM-239
KFKI-16/1963 N64-15988 07-23

SLOW NEUTRON SCATTERING IN ALLOYS
N64-17042 09-23

SLOW NEUTRON SCATTERING CROSS SECTIONS OF MOLECULAR HYDROGEN AND DEUTERIUM
NASA-CR-54001 N64-18279 10-23

PRODUCTION OF POLARIZED NEUTRON BEAM AT REACTOR ISPRA I BY REFLECTION OF SLOW NEUTRONS ON MAGNETIZED MIRROR
EUR-538.E N64-21208 14-23

COMPUTER PROGRAM FOR CALCULATING SLOW NEUTRON SCATTERING CROSS SECTION WITH APPLICATION TO WATER
IDO-16984 N64-32183 23-23

SLUDGE
BOILER SLUDGE COMPOSITION, REMOVAL BY GRAVITATIONAL, CENTRIFUGAL AND MAGNETIC FIELD FORCES N64-14338 06-17

EFFECT OF WATER CORROSION PRODUCTS ON SLUDGE FORMATION
FTD-TT-63-964/1&2 N64-16050 07-23

TREATMENT OF UNDILUTED HUMAN WASTE BY ACTIVATED SLUDGE PROCESS
AAL-TDR-63-36 N64-32115 23-16

SLURRY
CF COLLOID
EUDIOMETRIC METHOD USING FLUORIDE-CATALYZED HYDROCHLORIC ACID FOR DETERMINATION OF METALLIC THORIUM IN SLURRIES
AEET/ANAL/20 N64-10124 01-18

SLUSH
EFFECT OF SLUSH IN LENGTHENING TAKEOFF RUNS OF AIRCRAFT
TIL/T-5428 N64-14739 06-10

PRODUCTION OF LIQUID-SOLID MIXTURES OF HYDROGEN - HYDROGEN SLUSH
APL-TDR-64-22 N64-29652 21-23

SMALLPOX
IMMUNOLOGY STUDIES - PREVENTION OF RADIATION SICKNESS, ANTHRAX VACCINE, LENGTH OF IMMUNITY TO SMALLPOX, AND EFFECTIVENESS OF PROPHYLACTIC VACCINATION
JPRS-27281 N64-33961 24-16

SMITH-PURCELL EFFECT
ELECTROMAGNETIC RESONANCE IN SMITH-PURCELL EFFECT OF LIGHT RADIATION
PIBMRI-1198-63 N64-17308 09-23

SMOKE
OIL-BURNING SMOKE PRODUCER FOR FLOW VISUALIZATION IN LOW SPEED WIND TUNNEL
ARL/A-202 N64-10983 02-02

CLOUD PRECIPITATION AND AIRCRAFT SMOKE TRAIL
JPRS-23407 N64-17339 09-21

DATA ON AIRCRAFT SMOKE TRAILS N64-17341 09-21

CHEMICAL AGENTS FOR ROCKET VEHICLE PRODUCTION OF SMOKE TRAILS FOR WIND SHEAR MEASUREMENTS
NASA-TN-D-2277 N64-30095 21-07

ATMOSPHERIC ELECTRICAL CHARACTERISTICS IN FOG, SMOKE AND HAZE N64-31764 23-21

SMOOTHING
GRAVITATIONAL ACCELERATION METHOD FOR SMOOTHING RANGE AND RANGE RATE TRACKING MEASUREMENTS
TM-0930-2 N64-25372 17-23

SNOW
USE OF COAL DUST AND CARBON BLACK ON SNOW AND ICE TO ENHANCE MELTING - WATER RECOVERY N64-12790 04-21

CONSTRUCTION OF SNOW GROUND FACILITIES IN GREENLAND
TR-121 N64-16954 09-10

BIBLIOGRAPHY ON SNOW, ICE, AND PERMAFROST
CRREL-12, VOL. 17 N64-17633 09-21

STRESS WAVE PROPAGATION IN DYNAMIC LOADING OF SNOW
CRREL-119 N64-21025 14-19

SCINTILLATION AND SHIMMER EFFECTS ON VISUAL OBSERVATION OVER SNOW, ICE, AND FROZEN GROUND
RR-111 N64-22520 15-15

SCATTERING OF SUPERHIGH FREQUENCY RADIO WAVES BY HAIL AND WET SNOW
NASA-CR-56940 N64-25763 17-08

BIBLIOGRAPHY ON SNOW, ICE, AND PERMAFROST
CRREL-12 N64-29866 21-12

FORCES ON SPHERE ACCELERATING IN VISCOUS FLUID - DRIFTING SNOW
RR-128 N64-29868 21-11

ANNOTATED BIBLIOGRAPHY ON SNOW, ICE, & PERMAFROST
CRREL-12, VOL. XVIII N64-32521 23-12

SOAP
CF DETERGENT
CF WETTING
SOLUBILITY OF ALKALI METAL DINONYLNAPHTHALENE SULFONATES IN SOLVENTS OF VARYING POLARITY AND SOLUBILITY THEORY OF OIL-SOLUBLE SOAPS
NRL-6010 N64-12832 04-07

CHEMICAL ANALYSIS FOR SOAP CONTENT OF GREASE
RIA-64-2363 N64-32572 23-07

SOCIOLOGY
CYBERNETICS, SOCIAL SCIENCES, AND ECONOMICS
JPRS-18570 N64-10779 02-01

USE OF SPACE AGE SCIENCE AND TECHNOLOGY TO SOLVE SOCIOECONOMIC PROBLEMS OF METROPOLITAN AREAS RESULTING FROM INDUSTRIAL GROWTH
NASA-SP-37 N64-11502 03-01

SPACE AGE TECHNIQUES AND SCIENCE FOR METROPOLITAN AREA SOCIOECONOMIC PROBLEMS N64-11503 03-01

SPACE TECHNOLOGY, THE SPACE PROGRAM, AND SOCIO-ECONOMIC PROBLEMS OF METROPOLITAN AREAS N64-11504 03-01

SPACE SCIENCE AND TECHNOLOGY AND SOCIOECONOMIC PROBLEMS N64-11507 03-01

SCIENCE, TECHNOLOGY, GROWTH OF INDUSTRY, AND SOCIOECONOMIC PROBLEMS N64-11509 03-01

EXPANSION OF SCIENCE, GROWTH OF THE ECONOMY, POLITICS AND SOCIOLOGY N64-11511 03-01

INTEGRATION OF EDUCATION, INDUSTRY, GOVERNMENT, & RESEARCH TO SOLVE SOCIOECONOMIC PROBLEMS N64-11512 03-01

SOCIOECONOMIC PROBLEMS ARISING FROM ADVANCES IN SCIENCE & TECHNOLOGY AND THE SPACE PROGRAM N64-11513 03-01

APPLICATION OF SPACE AND SCIENTIFIC TECHNOLOGY TO SOCIOECONONOMIC PROBLEMS OF METROPOLITAN AREA OPERATIONS N64-11515 03-01

COMMUNICATION CHANNEL BETWEEN THE LABORATORY, INDUSTRY, AND THE COMMUNITY TO SOLVE SOCIOECONOMIC PROBLEMS N64-11517 03-01

EXPANDING TECHNOLOGY AND IMPLICATIONS OF SOCIO-ECONOMIC PROBLEMS OF METROPOLITAN AREAS N64-11518 03-01

SPACE TECHNOLOGY AND SCIENTIFIC TECHNIQUES IN THE SOLUTION OF SOCIOECONOMIC PROBLEMS OF INDUSTRIAL METROPOLITAN AREAS N64-11520 03-01

URBAN GROWTH RELATED TO CAPE KENNEDY - SOCIOLOGY
NASA-CR-56204 N64-27391 19-10

SOCIOLOGICAL SURVEY OF CIVIL DEFENCE TECHNIQUES - PUBLIC FALLOUT SHELTERS
AD-603125 N64-32529 23-14

SODIUM
CF ALKALI METAL

SODIUM VAPOR TRAIL STUDY OF TURBULENCE IN THE UPPER ATMOSPHERE
NASA-CR-52751 N64-11298 02-12

EXCRETION RATE OF RADIACTIVE SODIUM FROM RATS AND RABBITS FOR INTERNAL RADIATION DOSES CALCULATION
N64-12434 04-16

ELASTIC SCATTERING CROSS SECTIONS FOR SLOW ELECTRONS INCIDENT ON SODIUM & POTASSIUM
NASA-CR-55166 N64-13373 04-23

PARAMETER AND GRAPHIC COMPARISON OF TWO MELTING EQUATIONS FOR GASES AND METALS - HYDROGEN, OXYGEN, SODIUM, & POTASSIUM
NASA-CR-55331 N64-14291 06-23

ION EXCHANGE OF ISOTOPIC SODIUM-24 AND POTASSIUM-32 BETWEEN BLOOD AND CENTRAL NERVOUS SYSTEM DURING HYPOXIA N64-14588 06-16

HIGH TEMPERATURE PUMP AND SUMP FOR LIQUID SODIUM-POTASSIUM ALLOY
PWAC-385 N64-14872 06-06

TRANSIENT REACTOR COOLANTS FOR RETAINING FISSION PRODUCTS - MELTING URANIUM IN SODIUM AND TERPHENYL ENVIRONMENTS
NAA-SR-9163 N64-15401 07-23

COMBUSTION-GRAVIMETRIC METHOD FOR MEASUREMENT OF TRACE AMOUNTS OF CARBON IN SODIUM METAL
LA-3035 N64-16934 09-07

LINE BRIGHTNESS AND STRUCTURE OF SODIUM EMISSION IN COMETS AND MOLECULAR LIFETIME
AFCRL-64-82 N64-18200 10-05

PROVISION OF CLEAN SURFACES FOR SODIUM DEPOSITION AND MEASUREMENT OF SURFACE WORK FUNCTIONS - PHOTOEMISSION
ASD-TDR-63-340 N64-18931 11-25

TWO-PHASE FLOW PARAMETERS FOR SODIUM SYSTEMS
PS-186 N64-18994 11-11

PHASE EQUILIBRIA-FREE ENERGY OF SOLUTION RELATIONSHIPS IN LIQUID SODIUM SYSTEMS
NAA-SR-8381 N64-19247 11-23

NUCLEAR REACTION CROSS SECTIONS OF ISOTOPES OF ALUMINUM, SODIUM, AND CARBON
CERN-64-17 N64-19476 12-23

HEAT TRANSFER FROM HOT SODIUM SPRAY IMPINGING ON VERTICAL PLATE N64-20502 13-13

THERMOPHYSICAL PROPERTIES OF SODIUM AND POTASSIUM AT HIGH TEMPERATURES
NRL-5964 N64-20845 14-18

SODIUM VAPOR AND SCANNING FABRY-PEROT SPECTROMETER FOR AEROSPACE VEHICLE DETECTION
N64-23010 16-15

NONEQUILIBRIUM SODIUM IONIZATION IN LAMINAR BOUNDARY LAYER
BSD-TDR-64-50 N64-24798 17-11

MATERIAL RESISTANCE TO CAVITATION DAMAGE IN HANDLING LIQUID SODIUM IN SPACE POWER SYSTEMS
AIAA PAPER-64-363 N64-24904 17-18

THERMOPHYSICAL PROPERTIES OF SODIUM AND POTASSIUM AT HIGH TEMPERATURES
NRL-6004 N64-25335 17-18

PREPARATION OF PHOSPHORUS 32-LABELLED SODIUM PYROPHOSPHATE N64-25559 17-07

SODIUM COOLED FAST REACTOR
CEND-200, VOL. 1 N64-25560 17-23

CAVITATION DAMAGE TESTING OF REFRACTORY MATERIALS IN LIQUID SODIUM AT HIGH TEMPERATURE
NASA-CR-56724 N64-26353 18-25

CAVITATION DAMAGE IN LIQUID SODIUM
NASA-CR-54071 N64-26470 18-18

TWO-PHASE HEAT TRANSFER IN SODIUM AND POTASSIUM BOILING AND CONDENSING
NASA-CR-54037, VOL. 1 N64-26580 18-13

SODIUM-BROMINE FUEL CELL AS ENERGY SOURCE FOR HIGH POWER PULSE N64-27113 19-06

EXPERIMENTAL VALUES OF HEAT OF ADSORPTION FOR SODIUM, RUBIDIUM, AND CESIUM ON TUNGSTEN SUBSTRATE
NASA-TN-D-2430 N64-27740 19-25

HEAT OF ADSORPTION FOR SODIUM, RUBIDIUM, AND CESIUM ON TUNGSTEN SUBSTRATE - CHEMISORPTION
NASA-TN-D-2431 N64-27741 19-25

HEATS OF ADSORPTION OF SODIUM, RUBIDIUM, AND CESIUM IONS ON TUNGSTEN SUBSTRATE
NASA-TN-D-2460 N64-27742 19-25

MECHANISM OF IONIC EXCHANGE OF POTASSIUM AND SODIUM - NATURE OF NEUTRON DISCHARGE
N64-28038 20-16

INDICATIONS OF LEVEL, WETTING, & BUBBLES IN LIQUID SODIUM IN STAINLESS STEEL CONTAINER
EUR-1823.D N64-28136 20-13

TEST FACILITY FOR INVESTIGATING BOILING OF SODIUM AND POTASSIUM
NASA-CR-54050 N64-28744 20-13

HIGH TEMPERATURE THERMOPHYSICAL PROPERTIES OF SODIUM AND POTASSIUM
NRL-6094 N64-28814 20-18

IONIZATION OF AND RADIATION FROM SODIUM DURING REENTRY - CHEMISTRY OF SODIUM IN HYDROGEN/CARBON MONOXIDE/AIR FLAMES
AROD-5137-1 N64-29013 20-07

CALCULATION OF PHONON FREQUENCIES IN SODIUM AND COMPARISON WITH NEUTRON DIFFRACTION MEASUREMENTS
TR-18 N64-29543 21-23

THERMOPHYSICAL PROPERTIES OF SODIUM AND POTASSIUM AND THEIR VAPORS
NRL-6128 N64-29959 21-18

CHROMATOGRAPHIC ANALYSIS OF HELIUM OVER LIQUID SODIUM
NAA-SR-8448 N64-30635 22-07

EFFECTS OF CESIUM AND SODIUM IN ABLATING SURFACE OF POINTED CONES ON AIR IONIZATION IN BOUNDARY LAYER
R64SD22 N64-30658 22-11

HIGH PURITY THORIUM FROM SODIUM REDUCTION OF THORIUM TETRACHLORIDE
BM-RI-6527 N64-30789 22-07

CHEMICAL KINETICS OF SODIUM IN REENTRY - ELECTRON DENSITY AND RADIATION
R64SD33 N64-30980 22-07

VISIBLE ABSORPTION SPECTRA OF LITHIUM, SODIUM, AND POTASSIUM IN MOLTEN LITHIUM CHLORIDE-POTASSIUM CHLORIDE
NASA-RP-322 N64-31005 22-07

CHEMICAL KINETICS OF SODIUM IN REENTRY CONDITIONS
REPT.-6450810 N64-32460 23-07

INTERSTELLAR ABSORPTION BANDS PRODUCED BY PLASMA RESONANCE IN COATED SODIUM
NASA-CR-59170 N64-33119 24-25

ANNOTATED BIBLIOGRAPHY ON TECHNOLOGY OF LIQUID METALS - MERCURY, POTASSIUM, SODIUM, AND SODIUM-POTASSIUM ALLOY
NASA-CR-59028 N64-33194 24-18

SODIUM ALLOY

HIGH TEMPERATURE PUMP AND SUMP FOR LIQUID SODIUM-POTASSIUM ALLOY
PWAC-385 N64-14872 06-06

EFFECT OF MAGNETIC FIELD ON TWO-PHASE FLOW OF

SODIUM-POTASSIUM ALLOY AND NITROGEN IN RECTANGULAR CHANNEL
ANL-6854 N64-23284 16-24

ENERGY TRANSFER BETWEEN SAMARIUM, EUROPIUM, TERBIUM, AND DYSPROSIUM IONS IN SODIUM RARE EARTH TUNGSTATES N64-27992 20-25

ANNOTATED BIBLIOGRAPHY ON TECHNOLOGY OF LIQUID METALS - MERCURY, POTASSIUM, SODIUM, AND SODIUM-POTASSIUM ALLOY
NASA-CR-59028 N64-33194 24-18

SODIUM CARBONATE
DESCALING OF IRON AND NICKEL BASE ALLOYS USING SODIUM HYDROXIDE-SODIUM CARBONATE MOLTEN SALT BATH
HW-79048 N64-17702 09-17

ALUMINUM EXTRACTION CHARACTERISTICS OF CALCIUM ALUMINATES IN WATER AND IN SOLUTIONS OF SODIUM HYDROXIDE AND SODIUM CARBONATE
BM-RI-6528 N64-30129 21-07

SODIUM CHLORIDE
CF SALT
EXCRETION RATE OF SODIUM-24 FROM SODIUM CHLORIDE AND CAFFEINE AS FUNCTION OF RATS NERVOUS SYSTEM N64-12437 04-16

SHEAR DEVELOPMENT UNDER STRESS AND DISLOCATION STRUCTURE IN IMPURE SODIUM CHLORIDE CRYSTALS N64-12762 04-25

PREPARATION OF SODIUM CHLORIDE-TITANIUM LOWER CHLORIDE MELTS CONTAINING PREDOMINANTLY BIVALENT TITANIUM
BM-RI-6360 N64-14988 06-07

HIGH TEMPERATURE CALORIMETRY - ENTHALPY OF SODIUM CHLORIDE AND ALUMINUM OXIDE N64-16681 08-19

SURFACE TOPOGRAPHY OF SINGLE CRYSTALS OF FACE-CENTERED-CUBIC, BODY-CENTERED-CUBIC, SODIUM CHLORIDE, DIAMOND, AND ZINC BLENDE STRUCTURES
NASA-TN-D-2275 N64-18960 11-25

TITANIUM ELECTROREFINING CELLS USING SODIUM CHLORIDE-TITANIUM CHLORIDE ELECTROLYTES
BM-RI-6432 N64-19226 11-17

VISIBLE RADIATION DAMAGE IN SODIUM CHLORIDE CRYSTALS BY ALPHA PARTICLE BOMBARDMENT
NASA-TN-D-2329 N64-21428 14-25

ETCHANTS AND ETCHING TECHNIQUES FOR PRODUCTION OF DISLOCATION ETCH PITS ON SODIUM CHLORIDE
NASA-TN-D-2325 N64-22022 15-19

ALLOYS WITH CORROSION RESISTANCE TO HYDROCHLORIC ACID AND SODIUM CHLORIDE SOLUTIONS N64-24268 17-07

ANIONIC IMPURITIES IN SURFACE REGION OF SODIUM CHLORIDE CRYSTALS
NASA-TN-D-2434 N64-27944 20-07

EFFECT OF WATER INTAKE ON SODIUM CHLORIDE BALANCE
NASA-TT-F-9111 N64-33394 24-16

BLOOD THINNING AND SODIUM CHLORIDE LOSS WITH INCREASED WATER INTAKE
NASA-TT-F-9116 N64-33398 24-16

SODIUM COMPOUND
FUSIBILITY OF ANHYDROUS PERCHLORIC ACID SALTS - LITHIUM-CALCIUM & SODIUM-CALCIUM
FTD-TT-63-565/1&2&4 N64-11165 02-19

EFFECT OF SODIUM GALLATE ON NUCLEIC ACID CONTENT OF ORGANS OF HEALTHY AND IRRADIATED RATS
JPRS-19355 N64-11217 02-16

REMOVAL OF URANIUM HEXAFLUORIDE FROM GAS STREAM WITH NITROGEN BY SINGLE LAYER OF SODIUM FLUORIDE PELLETS - DIFFERENTIAL EQUATION EXPLANATION
ORNL-3494 N64-11342 02-25

PREVENTION AND TREATMENT OF ACUTE RADIATION SICKNESS IN DOGS WITH SODIUM GALLATE
JPRS-19269 N64-11349 02-16

INFRARED SPECTRUM AND STRUCTURE OF SODIUM NITROMETHANE
AFCRL-63-757 N64-12273 03-23

SCINTILLATION EFFICIENCY OF SODIUM IODIDE FOR CHARGED PARTICLES N64-12549 04-23

HYDROLYSIS OF NITROGEN-FLUORINE COMPOUND WITH SODIUM HYDROXIDE
HQ-76-3 N64-13077 04-07

CRYSTAL STRUCTURE OF SODIUM HYDROGEN FLUORIDE
IS-678 N64-13194 04-23

RECOVERY OF MOUSE TISSUE FROM RADIATION INJURY BY SODIUM SULFITE OR THIAZOLIDINE TREATMENT N64-13506 04-16

NEAR-ULTRAVIOLET, VISIBLE AND INFRARED SPECTROSCOPY OF SODIUM AND POTASSIUM THIOCYANATE N64-14912 06-07

SENSITIVE SODIUM IODIDE MONITOR FOR GAMMA RADIATION
DP-856 N64-14946 06-15

DESCALING OF IRON AND NICKEL BASE ALLOYS USING SODIUM HYDROXIDE-SODIUM CARBONATE MOLTEN SALT BATH
HW-79048 N64-17702 09-17

MUTAGENIC AND ANTIMUTAGENIC ACTION OF VARYING CONCENTRATIONS OF SODIUM GALLATE ON GERMINATING SEEDS OF RUSSIAN BLACK HORSE BEANS, VICIA FABA
JPRS-23787 N64-17805 09-16

HEAT CAPACITY OF SODIUM BROMIDE AND SODIUM IODIDE AT LOW TEMPERATURES - THERMODYNAMIC PROPERTIES
BM-RI-6435 N64-18989 11-19

IMPROVING EASE OF MACHINING OF STEEL CASTINGS BY INTRODUCING SODIUM SULFUR COMPOUNDS INTO MOLTEN STEEL BEFORE CASTING
FTD-TT-63-352/1&2&4 N64-19216 11-17

GAMMA RADIATION BACKGROUND IN SALT MINE MEASURED WITH SODIUM IODIDE CRYSTAL DETECTOR AND MULTI-CHANNEL ANALYZER
UR-641 N64-19858 12-23

SCINTILLATION CAMERA WITH LARGE SODIUM IODIDE CRYSTAL FOR OBSERVING POSITRONS AND GAMMA RADIATION EMITTED BY ISOTOPES N64-22858 16-16

GAMMA RAY DETECTION EFFICIENCY AND IMAGE RESOLUTION IN SODIUM IODIDE N64-22859 16-23

ANTIRADIATION EFFECT OF PROPYL AND SODIUM GALLATES UNDER IRRADIATION OF 1000 ROENTGENS
JPRS-25274 N64-27264 19-16

CHEMICAL PROPERTIES OF ACTIVE ALKALI AZIDES AND BARIUM AZIDE
MTSR-2 N64-28152 20-07

SOLUBILITY OF CRYSTALLINE SODIUM ALUMINATE
BM-RI-6504 N64-28249 20-07

ALUMINUM EXTRACTION CHARACTERISTICS OF CALCIUM ALUMINATES IN WATER AND IN SOLUTIONS OF SODIUM HYDROXIDE AND SODIUM CARBONATE
BM-RI-6528 N64-30129 21-07

STRUCTURE AND ION EXCHANGE PROPERTIES OF MOLTEN SODIUM BORATE USING RARE RADIOACTIVE TRACERS
USNRDL-TR-760 N64-30880 22-07

ELECTRON MICROSCOPIC STUDY OF INTERACTION OF SODIUM OLEATE WITH PULP IONS & MINERAL SURFACES N64-31405 23-07

CRYSTAL STRUCTURE OF DISODIUM NITROSO HYDROXYRUTHENATE HYDRATE BY NEUTRON DIFFRACTION
ANL-6855 N64-32290 23-07

PROPERTIES OF IMMISCIBLE LIQUIDS FORMED FROM MIXTURES OF FUSED BORON OXIDE, SODIUM HALIDE, AND SODIUM METABORATE
USNRDL-TR-752 N64-33370 24-07

LOW AND HIGH TEMPERATURE STRUCTURES OF SODIUM NIOBATE CRYSTALS
AD-442752 N64-33664 24-25

X-RAY AND DIELECTRIC MEASUREMENTS OF SODIUM NIOBATE AT VARYING TEMPERATURES
QTSR-2 N64-33671 24-25

SODIUM COOLING
MODIFIED CHROMIUM-MOLYBDENUM ALLOY STEELS FOR SODIUM COOLING SYSTEMS
NAA-SR-7544 N64-11955 03-18

FLOW CONTROLLER FOR LIQUID SODIUM COOLANT IN NUCLEAR POWERPLANTS - ENVIRONMENTAL AND PERFORMANCE TESTING
NAA-SR-7534 N64-11999 03-06

SODIUM COOLED REACTOR & FAST CERAMIC REACTOR FUEL
GEAP-3888 N64-13016 04-23

SODIUM HYDRIDE
POLAROGRAPHIC STUDY OF BOROHYDRIDES OF LITHIUM, SODIUM, POTASSIUM, AND CESIUM N64-23664 16-07

SODIUM NITRATE
ALUMINUM AND SODIUM NITRATE EMITTER USED WITH MONOCHROMATOR-PHOTOMETER FOR MEASURING IONOSPHERIC TEMPERATURE
NASA-TT-F-8977 N64-33384 24-12

SODIUM REACTOR EXPERIMENT /SRE/
ANALOG COMPUTER PROGRAM FOR DETERMINATION OF HEAT TRANSFER PARAMETERS OF POWER RAMPS ON SODIUM REACTOR EXPERIMENT
NAA-SR-7929 N64-23062 16-23

OSCILLATION MEASUREMENTS IN SODIUM REACTOR EXPERIMENT /SRE/
NAA-SR-7264 N64-25546 17-23

SODIUM SILICATE
ELECTRON MICROSCOPE ANALYSIS OF IRON DIFFUSION INTO SODIUM DISILICATE GLASS ROD
UCRL-11116 N64-14400 06-25

SODIUM VAPOR
STATIC PRESSURES OF SODIUM VAPOR EXPANSION WITH INERT-GAS-INJECTION PRESSURE-MEASURING TECHNIQUE
NASA-TN-D-2276 N64-18961 11-02

SODIUM VAPOR TECHNIQUE FOR UPPER ATMOSPHERIC WIND MEASUREMENTS
NASA-CR-53666 N64-19607 12-21

UPPER ATMOSPHERIC WIND DETERMINATION USING SODIUM AND LITHIUM VAPORS EJECTED FROM SOUNDING ROCKET
NASA-CR-58206 N64-27273 19-12

SODIUM-24
BIOLOGICAL EFFECT OF LOW DOSES OF RADIOACTIVE ISOTOPES - SODIUM-24 AND PHOSPHORUS-32 IN RATS, RABBITS, AND DOGS N64-12433 04-16

SOFT LANDING
CF LUNAR LANDING
SUMMARY AND PROPULSION DESIGN GUIDE FOR SOFT LANDING IN EXTRATERRESTRIAL ENVIRONMENTS
NASA-CR-52486 N64-10623 01-27

TOUCHDOWN DYNAMICS ANALYSIS OF SPACECRAFT FOR SOFT LUNAR LANDING
NASA-TN-D-2001 N64-12876 04-29

PROPULSION REQUIREMENTS FOR SOFT LANDING IN EXTRATERRESTRIAL ENVIRONMENTS - ANALYSIS OF LUNAR AND EARTH-MERCURY MISSIONS
NASA-CR-55088 N64-13375 04-29

OPTIMUM THRUST PROGRAMMING FOR LUNAR SOFT LANDING
SSD-TDR-63-309 N64-14781 06-29

HISTORY OF ATTEMPTS AT LUNAR EXPLORATION AND POSSIBILITY OF SOFT LANDING ON MOON
JPRS-24009 N64-18319 10-29

PROPULSION REQUIREMENTS FOR SOFT LANDING IN EXTRATERRESTRIAL ENVIRONMENT
NASA-CR-58034 N64-27803 19-29

INSTRUMENTATION FOR LUNAR SOFT LANDING
N64-28407 20-29

SYSTEMS DESIGN AND MISSION PLANNING FOR SURVEYOR SOFT LANDING PROJECT
NASA-CR-58247 N64-28969 20-32

SOIL
SA MINERAL
CF CLAY
SOVIET RESEARCH ON IONOSPHERIC ELECTRON DENSITY & CONDUCTIVITY OF SOIL
JPRS-21739 N64-10276 01-12

SOIL CONDUCTIVITY AND CORRELATION TO COMPOSITION, SALT, & WATER CONDITIONS N64-10279 01-12

ABSORPTION OF ENERGY FROM SEISMIC WAVE BY ELECTRODYNAMIC SEISMOGRAPH INSTALLED IN MELLOW SOILS
JPRS-17597 N64-10482 01-12

RADIOGRAPHIC METHODS FOR DYNAMIC SOIL RESPONSE
N64-12411 04-12

ROCK AND SOIL WAVE ATTENUATION RESPONSE TO DYNAMIC LOADING BY NUCLEAR EXPLOSIONS N64-12414 04-23

WATER PERMEABILITY OF FROZEN SANDY SOIL
FTD-TT-63-927/1&2 N64-12617 04-12

WATER TRANSFER FROM SOIL TO ATMOSPHERE AS RELATED TO SOIL PROPERTIES, PLANT CHARACTERISTICS, AND WEATHER N64-12988 04-12

SOIL SCIENCE IN MAPPING ARID AREAS AND IN STUDYING EXTRATERRESTRIAL SOILS
NASA-CR-53021 N64-13271 04-12

LUNAR SOIL BEHAVIOR, & POSSIBLE EFFECTS OF VACUUM
N64-13710 05-29

POLARIMETRIC DETECTION OF OPTICALLY ACTIVE MATERIAL IN SOILS FOR REMOTE DETERMINATION OF EXTRATERRESTRIAL LIFE
NASA-CR-55657 N64-15387 07-23

PREPARATION & PROPERTIES OF UREASE ENZYME IN SOIL
N64-15716 07-16

FORMS OF SOIL BIOTIN N64-15803 07-16

EVALUATION OF EARTH SOIL IMPACT BY CYLINDRICAL PROJECTILES FROM NUCLEAR POWER SUPPLY SYSTEMS
SC-RR-316-63 N64-17260 09-30

HYDROCARBONS IN TERRESTRIAL SAMPLES AND ORGUEIL METEORITE N64-17567 09-05

NATURAL RADIOACTIVITY OF SOIL IN RELATION TO CONTAMINATION OF EARTH ATMOSPHERE BY NUCLEAR WEAPONS TESTING
JPRS-23912 N64-17735 09-12

MEASUREMENT OF SHEARING STRESSES OF SOILS WITH VIBRATION TESTING MACHINE
CRREL-90 N64-18884 11-12

OPERATION AND CALIBRATION MANUAL FOR LUNAR SOIL PROPERTIES MEASURING DEVICE /LSPMD/ TEST CONSOLE
NASA-CR-56174 N64-20812 14-29

COMPUTER PROGRAM FOR CALCULATION OF NONLINEAR VISCOELASTIC WAVE PROPAGATION IN SOILS
BRL-1237 N64-21500 15-20

NEW FREELY LIVING NITROGEN FIXING MICROORGANISMS - SOIL ENRICHMENT
FTD-TT-63-1010/1 N64-22141 15-16

STRAIN GAUGE FOR LABORATORY STUDY OF SMALL SOIL SAMPLES UNDER STATIC & DYNAMIC LOADING
WL-TDR-64-7 N64-22700 15-15

EXTRATERRESTRIAL LIFE DETECTOR, AND AUTOMATIC PAPER CHROMATOGRAPHY DEVICE FOR ANALYSIS OF SOLUBLE CONSTITUENTS OF PLANETARY SOIL
NASA-CR-56523 N64-22783 16-16

DEVELOPMENT OF LIFE DETECTOR FOR PLANETARY SOILS - DETECTION BY CHANGES IN LIGHT TRANSMISSION AND IN PH FACTOR OF SELECTED MEDIUM
NASA-CR-56528 N64-22789 16-16

LOCOMOTION IN SIMULATED LUNAR SOIL OF CIRCULAR AND NONCIRCULAR WHEELS
ADR-04-05-63.2 N64-26312 18-17

OPERATOR VARIANCE IN DETERMINATION OF PLASTIC LIMIT OF COHESIVE SOILS
RR-117 N64-27604 19-14

ZINC, COPPER, COBALT, AND MOLYBDENUM IN SOILS OF EUROPEAN PART OF USSR
JPRS-26040 N64-28350 20-07

FOAMED PROPELLANT SYSTEM FOR COMPACTION AND STABILIZATION OF COHESIONLESS AND COHESIVE SOILS
SURI-CE-974-647F1 N64-30004 21-12

TRACE ANALYSIS OF PLUTONIUM AND URANIUM BY ION EXCHANGE SEPARATION FROM FISSION PRODUCTS AND SOIL
NDL-SP-7 N64-30586 22-07

SOLAR ACTIVITY
TABLES AND GRAPHS OF DAILY SOLAR ACTIVITY FOR 1962 AND 1963, FIRST QUARTER - GEOPHYSICAL DATA
N64-10606 01-29

TABLES AND GRAPHS OF DAILY SOLAR ACTIVITY FOR 1963 FIRST QUARTER - GEOPHYSICAL DATA
N64-10607 01-29

TABLES AND GRAPHS OF DAILY SOLAR ACTIVITY FOR 1963 FIRST HALF - GEOPHYSICAL DATA N64-10608 01-29

INFLUENCE OF SOLAR ACTIVITY ON THE CIRCULATORY & HEMATOPOIETIC SYSTEMS AND BLOOD COMPOSITION OF MAN
JPRS-18960 N64-11121 02-16

SATELLITE SPACE PROBES FOR PROPERTIES AND SOLAR EFFECT ON EARTH ATMOSPHERE N64-11597 03-01

CORRELATION BETWEEN JUPITER AND SOLAR RADIO EMISSIONS FROM OBSERVATIONS OF POLARIZED RADIATION
NASA-CR-53301 N64-17793 09-05

OPTICAL OBSERVATIONS OF SOLAR ACTIVE REGIONS ASSOCIATED WITH SOME INDIVIDUAL EVENTS
N64-17893 10-28

LONG TERM RELATIONSHIPS BETWEEN SOLAR ACTIVITY AND CLIMATE N64-18095 10-21

SOLAR PROMINENCE OF APRIL 1963 - SOLAR ACTIVITY, MOTION OF PROMINENCE, AND BRIGHT SURGES
N64-19156 11-28

INTERNATIONAL GEOPHYSICAL YEAR /IGY/ SOLAR ACTIVITY OBSERVATIONS - SOLAR PROMINENCE DATA FOR 1963
N64-19248 11-29

SPECTRUM AND INTENSITY CHANGES OF COSMIC RADIATION AND SOLAR PROTON FLUX DURING MAXIMUM SOLAR ACTIVITY
AFOSR-64-0632 N64-20471 13-28

SOLAR ACTIVITY AS FUNCTION OF TIME OF RISE
N64-20769 14-28

IONOSPHERIC ABSORPTION AND SOLAR ACTIVITY IN MIDDLE LATITUDE N64-20770 14-12

SOLAR ACTIVITY - CLOUD CHAMBER RESEARCH OF HIGH ENERGY COSMIC RAY REACTIONS
AD-431599 N64-21676 15-28

HELIUM AND ATOMIC HYDROGEN IN PERIOD OF SOLAR ACTIVITY MINIMUM
NASA-TT-F-8625 N64-24158 16-29

27-DAY VARIATIONS OF COSMIC RAYS AND SOLAR ACTIVITY FROM JULY TO DECEMBER 1957
N64-24439 17-28

27-DAY VARIATION IN HARD COMPONENT COSMIC RAY INTENSITY DURING SOLAR ACTIVITY MINIMUM
N64-24440 17-28

CORRELATION BETWEEN ROTATION PERIOD OF ARTIFICIAL EARTH SATELLITE AND SOLAR ACTIVITY
NASA-TT-F-8530 N64-27808 19-29

VISUAL AURORAS - MORPHOLOGY, CORRELATION WITH GEOPHYSICAL AND SOLAR ACTIVITY, AND ENERGETIC PARTICLES ASSOCIATED WITH AURORAS
NASA-TM-X-55041 N64-28080 20-12

SECULAR VARIATIONS OF INTERMITTENT AND REVIVAL SUNSPOT GROUPS
AFCRL-64-618 N64-29290 21-28

SLOWLY VARYING COMPONENT IN SUPERHIGH FREQUENCY BAND AS FUNCTION OF SOLAR ACTIVITY
N64-30274 22-28

NASA PROGRAMS FOR SOLAR ACTIVITY AND RADIATION STUDIES N64-30338 22-29

CORRELATION OF EXTREME ULTRAVIOLET RADIATION WITH ACTIVE REGIONS ON SOLAR DISK BASED ON ELECTRON TEMPERATURE AND DENSITY CHANGES
NASA-RP-345 N64-31721 23-28

SOLAR ACTIVITY EFFECT
RELATION OF SOLAR VARIATION TO WEATHER ON EARTH FROM SATELLITE DATA
NASA-CR-52682 N64-11717 03-01

RELATION OF SOLAR ACTIVITY TO EARTH WEATHER - CORRELATION OF SATELLITE DATA AND WEATHER OBSERVATIONS N64-11718 03-28

MODEL OF EQUATORIAL SUMMER ATMOSPHERE FOR STUDY OF INTERACTION WITH SOLAR WIND - WEATHER DISTURBANCE
N64-11719 03-28

THICKNESS OF SHOCK WAVE IN SOLAR WIND, LIMITS OF LARMOR RADIUS, AND POSSIBILITY OF SHOCK CAUSED BY MOON N64-11720 03-28

POSSIBLE OSCILLATION OF WINDS IN EQUATORIAL STRATOSPHERE - SOLAR ACTIVITY EFFECT
N64-11721 03-21

INERTIAL OSCILLATION OF EQUATORIAL STRATOSPHERE - SOLAR ACTIVITY EFFECT N64-11722 03-21

WIND FLOW IN UPPER TROPOSPHERE UNDER INFLUENCE OF CONSERVATION OF VORTICITY AND THERMAL WIND APPROXIMATION N64-11723 03-21

KEY DAY FOR PREDICTING VARIATIONS IN PRESSURE - SURFACE PRESSURE PERSISTANCE CORRELATION WITH SOLAR ACTIVITY N64-11724 03-21

INDICES OF SOLAR & GEOMAGNETIC ACTIVITY, VARIATION OF EARTH MAGNETIC FIELD IN TIME & SPACE, & FIELD VARIATION IN MAGNETIC STORM N64-11725 03-28

MODEL OF EQUATORIAL FLOW - MOTION OF BANDS OF FLUID WITH CONSTANT VORTICITY - SOLAR ACTIVITY EFFECT N64-11726 03-21

SOLAR WEATHER - SOLAR MAGNETIC FIELD, WIND, FLARES, ULTRAVIOLET, AND FLUID BETWEEN SUN & EARTH
N64-11727 03-28

SPECTRAL MEASUREMENTS OF NEAR-SOLAR AUREOLES
FTD-TT-63-844/1&2 N64-12629 04-28

METEOROLOGY AND OCEANOGRAPHY - SOLAR ACTIVITY EFFECTS ON TROPOSPHERIC REACTION - ICE STUDIES
JPRS-23074 N64-14532 06-21

SOLAR QUIET-DAY DAILY VARIATIONS AT GEOMETRICALLY CONJUGATE AREAS OF GEOMAGNETIC FIELD
N64-14928 06-12

PROBLEMS OF LONG-RANGE WEATHER FORECASTING AND INFLUENCE OF SOLAR ACTIVITY ON SYNOPTIC PROCESSES
JPRS-23237 N64-15152 07-21

EFFECT OF SOLAR DISTURBANCES ON RADIO COMMUNICATIONS
AGARDOGRAPH-59 N64-15426 07-08

INFLUENCE OF SOLAR DISTURBANCE ON VERY LOW FREQUENCY RADIO WAVE PROPAGATION OVER LONG, HIGH LATITUDE PATH N64-15433 07-08

SOLAR EFFECTS ON RADIO WAVE PROPAGATION N64-15441 07-08

SOLAR-INDUCED EFFECTS ON VERY HIGH FREQUENCY IONOSPHERIC PROPAGATION AT LOW MAGNETIC LATITUDE N64-15442 07-12

INFLUENCE OF SOLAR DISTURBANCES ON MULTIFREQUENCY PULSE TRANSMISSIONS AND SIMULTANEOUS BACKSCATTER OBSERVATIONS N64-15443 07-28

RELATIONS BETWEEN SOLAR ACTIVITY AND GEOMAGNETIC DISTURBANCES N64-15445 07-28

RECURRENCE TENDENCY OF RADIO PROPAGATION DISTURBANCES DURING PERIOD OF HIGH SOLAR ACTIVITY N64-15446 07-28

CLASSIFICATION OF IONOSPHERIC STORM TYPES AND DEPENDENCE ON SOLAR-GEOMAGNETIC PHENOMENA N64-15447 07-28

EFFECT OF SOLAR DISTURBANCES ON LOW RADIOFREQUENCY IONOSPHERIC REFLECTION PROCESS N64-15451 07-28

INVESTIGATIONS OF EFFECT OF SOLAR ACTIVITY ON CLIMATE AND METEOROLOGY
JPRS-23235 N64-15618 07-21

LONG-TERM EFFECT OF SOLAR ACTIVITY ON CLIMATE AND HYDROLOGIC CYCLES N64-15620 07-21

STATISTICAL INVESTIGATIONS OF EFFECT OF SOLAR ACTIVITY ON CLIMATE N64-15621 07-21

EFFECT OF SOLAR ACTIVITY CYCLING ON LONG RANGE WEATHER FORECASTING
JPRS-24167 N64-18526 11-21

SOLAR ACTIVITY EFFECT ON EARTH ATMOSPHERE N64-18527 11-21

EFFECTS OF SOLAR ACTIVITY AND ATMOSPHERIC CONDITIONS ON LONG RANGE WEATHER FORECASTING N64-18528 11-21

POLARIZATION OF RADIO EMISSION FROM JUPITER - VARIATIONS ATTRIBUTED TO JOVIAN IONOSPHERIC DISTURBANCES CAUSED BY SOLAR ACTIVITY
NASA-CR-53538 N64-20734 13-29

SOLAR PHYSICS AND EFFECTS OF SOLAR PHENOMENA ON EARTH
AFCRL-64-275 N64-21021 14-28

SOLAR ACTIVITY EFFECT ON ANNUAL RING GROWTH OF TREES
NASA-TT-F-9011 N64-22942 16-28

INCIDENCE ZONES AND ENERGY SPECTRA OF COSMIC RAY BURST OF 4 MAY 1960 - SOLAR ACTIVITY EFFECT N64-24436 17-28

SEASONAL VARIATION OF DENSITY AND TEMPERATURE CAUSED BY SOLAR ACTIVITY IN AURORAL ZONE
NASA-RP-217 N64-24560 17-12

RELATIONSHIP BETWEEN SEISMIC PHENOMENA AND SOLAR ACTIVITY
NASA-TT-F-8692 N64-24909 17-28

METEOR HEIGHT DEPENDENCE ON ATMOSPHERIC DENSITY, TEMPERATURE, & SOLAR ACTIVITY
FTD-TT-62-1731/1&4 N64-25444 17-29

EFFECT OF CHANGES IN SOLAR ACTIVITY ON COUPLING COEFFICIENTS BETWEEN PRIMARY & SECONDARY COSMIC RAY VARIATIONS N64-25941 18-28

SOLAR EFFECTS ON GEOPHYSICAL PHENOMENA AT CONJUGATE POINTS ON MAGNETIC FORCE LINES
UAG-R146 N64-26220 18-12

SOLAR INDUCED MAGNETIC VARIATIONS, TELLURIC CURRENTS, IONOSPHERIC ABSORPTION, VISIBLE AURORAS, AND X-RAYS
UAG-R146, PT. 2 N64-27538 19-12

COSMIC RAY INTENSITY FLUCTUATIONS IN STRATOSPHERE CAUSED BY SOLAR ACTIVITY
NASA-TT-F-9027 N64-28826 20-28

AIRGLOW, IONOSPHERE, AURORA, GEOMAGNETISM, COSMIC RAYS, AND SOLAR ACTIVITY DATA RECEIVED BY WDC-A FROM 1 JULY 1957 TO 31 DECEMBER 1963 N64-28976 20-12

VARIATION OF GEOMAGNETIC FIELD WITH SOLAR ACTIVITY N64-29343 21-12

CERENKOV COUNTER MEASUREMENTS OF PRIMARY COSMIC RADIATION SHOWING EFFECTS OF DECREASING SOLAR ACTIVITY
NASA-RP-330 N64-31211 22-25

SOLAR ATMOSPHERE
COMPUTATION OF SOLAR MAGNETIC FIELD FROM HYDROMAGNETIC EQUATIONS FOR VELOCITY FIELDS IN LOW PHOTOSPHERE N64-11590 03-28

MAGNETIC FIELD INTENSITY GRADIENT IN SOLAR PHOTOSPHERE
NASA-TT-F-138 N64-14405 06-12

INFRARED RADIATION IN SOLAR & TERRESTRIAL ATMOSPHERES - FIREFLY PROJECT
AFCRL-64-200 N64-15085 07-01

HIGH ALTITUDE OBSERVATIONS WITH CORONAGRAPH AND INFRARED SPECTROMETER OF RADIATION FROM SOLAR ATMOSPHERE N64-15087 07-28

ULTRAVIOLET SPECTRUM OF SOLAR CHROMOSPHERIC STRUCTURE N64-18158 10-28

MAGNETIC FIELD DISTRIBUTION IN PHOTOSPHERIC LAYERS OF SUN
DI-82-0216 N64-21905 15-28

LAMBDA 7774 AND 8446 OXYGEN MULTIPLETS IN SOLAR CHROMOSPHERE
NASA-TT-F-9000 N64-23052 16-29

INCREASE IN COSMIC RAY INTENSITY IN HARD COMPONENT DURING SMALL CHROMOSPHERIC FLARES ON SUN
NASA-TT-F-9005 N64-23054 16-28

SYNOPTIC CHARTS OF SOLAR CHROMOSPHERE N64-25519 17-29

MAGNETIC ENERGY DISSIPATION IN SOLAR ATMOSPHERE BOTH IN STEADY PLAGE CONDITION AND IN SOLAR FLARE EVENTS N64-30294 22-28

SPECTROSCOPIC ANALYSIS OF SOLAR, MARS, & JUPITER ATMOSPHERES
NASA-CR-59060 N64-32492 23-29

SPECTROSCOPIC STUDY OF SOLAR AND PLANETARY ATMOSPHERES
NASA-CR-58772 N64-33173 24-29

TIME AND DEPTH VARIATIONS OF LINE SPECTRA FORMED IN OUTER SOLAR ATMOSPHERE
AFCRL-64-735 N64-33274 24-28

EQUILIBRIUM OF BARIUM IN SOLAR ATMOSPHERE N64-33455 24-28

SOLAR CELL
SINGLE CRYSTAL GALLIUM PHOSPHIDE PREPARATION BY EPITAXIAL DEPOSITION ON SINGLE CRYSTAL GALLIUM ARSENIDE FOR SOLAR CELL USE
NASA-CR-52140 N64-10111 01-06

RESISTANCE OF SILICON SOLAR CELLS TO PROTON AND

ELECTRON RADIATION
NASA-TM-X-51189 N64-11382 02-06

ENERGY DEPOSITED IN SHIELDED SOLAR CELLS BY HIGH-ENERGY ELECTRONS N64-12535 04-23

OPERATION OF HIGH EFFICIENCY SILICON SOLAR CELLS
AD-422529 N64-12927 04-04

RADIATION PROTECTION OF SOLAR CELLS IN EXPLORER XVI THROUGH IMPROVED QUARTZ WINDOWS
NASA-RP-115 N64-13170 04-06

CELL EQUALIZATION TECHNIQUES FOR SPACECRAFT POWER SUPPLIES HAVING ALKALINE BATTERY CELLS COUPLED WITH SOLAR CELLS
RTD-TDR-63-4187 N64-13819 05-06

SINGLE CRYSTAL GALLIUM PHOSPHIDE FOR SOLAR CELLS
NASA-CR-55311 N64-13935 05-06

P-N JUNCTION FORMATION TECHNIQUES - PLASMA DEPOSITION & ION IMPLANTATION STUDIES FOR IMPROVED SOLAR CELLS
TPR-1 N64-14646 06-06

HIGH TEMPERATURE, RADIATION-RESISTANT, SOLAR CELL ARRAY
AED-R-2117 N64-14649 06-25

HIGH EFFICIENCY SILICON SOLAR CELL DEVELOPMENT
QPR-5 N64-14990 06-06

DENDRITIC SILICON SOLAR CELL PANEL
RTD-TDR-63-4030 N64-15091 07-06

DENDRITIC SILICON SOLAR CELL AND RADIATION RESISTANCE OF ARRAY
AD-429047 N64-15092 07-06

DEGRADATION MEASUREMENTS OF SOLAR CELL IRRADIATION UNDER TUNGSTEN AND SUNLIGHT ILLUMINATIONS
NASA-TN-D-2098 N64-15845 07-06

WELDING TECHNIQUES FOR INTERCONNECTING SOLAR CELLS
NASA-CR-53077 N64-15963 07-17

HIGH ENERGY ELECTRON RADIATION EFFECT ON SILICON SOLAR CELLS
NASA-CR-50098 N64-16066 07-06

PERFORMANCE OF HIGH EFFICIENCY SILICON SOLAR CELLS AS EFFECTED BY CONCENTRATED SUNLIGHT
AD-402839 N64-16100 07-06

IMPROVING CHARACTERISTICS OF CHEMICALLY SPRAYED THIN FILM PHOTOVOLTAIC CONVERTERS - SOLAR CELLS
ASD-TDR-63-223, PT. 2 N64-16500 08-06

PROTON IRRADIATION DAMAGE TO SILICON SOLAR CELLS
NASA-CR-55829 N64-16716 08-06

LARGE AREA SOLAR CELLS FROM SILICON SHEETS USING ALUMINUM HONEYCOMB SUBSTRATE N64-17378 09-06

ELECTRON IRRADIATION AND TEMPERATURE EFFECTS ON SOLAR CELL PERFORMANCE N64-17381 09-06

THIN FILM FLEXIBLE CADMIUM SULFIDE SOLAR CELLS
AD-432192 N64-17476 09-25

DIRECT ENERGY CONVERSION TECHNOLOGY - SOLAR CELLS, MAGNETOHYDRODYNAMICS, BATTERIES, AND THERMIONICS N64-19377 12-06

SINGLE CRYSTAL & SEMICONDUCTOR DEVICES AND RADIATION DAMAGE EFFECTS OF SOLAR CELLS N64-19384 12-06

GERMANIUM SOLAR CELLS FOR RADIANT ENERGY CONVERSION N64-19838 12-06

HIGH EFFICIENCY LOW COST SILICON SOLAR CELLS
QPR-6 N64-20110 13-06

SINGLE CRYSTAL GALLIUM PHOSPHIDE SOLAR CELL
NASA-CR-53986 N64-20585 13-25

COPPER SULFIDE LAYERS ON GALLIUM ARSENIDE FILMS FOR LARGE-AREA SOLAR CELLS
NASA-CR-54046 N64-20671 13-06

CALIBRATION OF STANDARD SOLAR CELLS
RAE-TN-SPACE-53 N64-22969 16-06

RADIATION EFFECTS ON SILICON SOLAR CELLS
NASA-CR-56563 N64-23529 16-06

CADMIUM TELLURIDE THIN FILM SOLAR CELL
QPR-7 N64-24391 17-06

GROWTH, VACUUM DEPOSITION, AND PROTECTIVE COATING OF CADMIUM TELLURIDE THIN FILM SOLAR CELLS
REPT.-6 N64-25211 17-06

MANUFACTURE OF CADMIUM SULFIDE THIN FILM SOLAR CELLS
NASA-CR-54107 N64-25959 18-17

SOLID STATE TIMING APPARATUS TO DISCONNECT SOLAR CELLS FROM BATTERIES AFTER TWO YEAR PERIOD
NASA-TM-X-55019 N64-27253 19-06

HIGH EFFICIENCY SILICON SOLAR CELLS FOR TERRESTRIAL APPLICATIONS
REPT.-7 N64-27863 19-06

INSTALLATION OF SOLAR CELLS ON PHOTOVOLTAIC CONCENTRATING PANELS
NASA-CR-56777 N64-27886 20-06

PREPARATION AND SPECTRAL RESPONSE OF THIN FILM CADMIUM SULFIDE SOLAR CELLS
AD-601459 N64-27929 20-06

SHELF LIFETIME OF SOME GALLIUM ARSENIDE SOLAR CELLS N64-28221 20-06

TEMPERATURE EFFECTS ON IRRADIATED SOLAR CELLS N64-28222 20-06

AUXILIARY POWER GENERATING SYSTEM FOR LARGE SPACE LABORATORY - SOLAR DYNAMIC SYSTEMS, SOLAR CELLS AND BATTERIES, AND SYSTEM FOR NUCLEAR AUXILIARY POWER-8 /SNAP-8/
AIAA PAPER-64-719 N64-28373 20-06

OPTICAL PROPERTIES AND ENVIRONMENTAL STABILITY OF SOLAR CELL ADHESIVES
LMSC-AD-34229 N64-28643 20-17

CONFERENCE ON RADIATION RESISTANCE AND DAMAGE IN SILICON SOLAR CELLS AND PHOTOVOLTAIC DEVICES
NASA-CR-58680 N64-29152 21-06

DAMAGE TO SOLAR CELL RADIATION SHIELDS IN RELAY I AND RELAY II SATELLITES N64-29153 21-06

DAMAGE TO SILICON AND GALLIUM ARSENIDE SOLAR CELLS FROM LOW ENERGY PROTON IRRADIATIONS N64-29156 21-06

ELECTRICAL PROPERTIES OF IRRADIATED SILICON SOLAR CELLS MEASURED FROM TEMPERATURE PROFILE N64-29159 21-06

EFFECT OF SHIELDING ON SOLAR ENERGY CONVERSION EFFICIENCY OF SYNCOM II SOLAR CELL ASSEMBLY N64-29161 21-06

HIGH ENERGY ELECTRON RADIATION EFFECT ON OPTICAL TRANSMISSION OF TRANSPARENT MATERIALS FOR SOLAR CELL SHIELDS N64-29162 21-06

DRIFT FIELD SOLAR CELLS FOR IMPROVED RADIATION RESISTANCE N64-29163 21-06

FABRICATION OF CONTROLLED-JUNCTION SOLAR CELLS BY IMPLANTATION OF DOPING IONS INTO BULK SILICON BY VAN DE GRAAFF ACCELERATOR N64-29164 21-06

OPTICAL, ELECTRICAL, AND THERMAL PROPERTIES OF SOLAR CELLS FABRICATED FROM EPITAXIALLY GROWN SINGLE CRYSTAL GALLIUM PHOSPHIDE N64-29166 21-06

DECREASE IN SOLAR CELL THICKNESS FOR PHOTOVOLTAIC SOLAR ENERGY CONVERSION SYSTEMS IN SPACE VEHICLES

N64-29167 21-06

ANTIREFLECTION COATINGS AND COVER GLASSES FOR IMPROVED SILICON SOLAR CELL PERFORMANCE
N64-29169 21-06

ELECTRICAL CHARACTERISTICS OF IRRADIATED SILICON SOLAR CELLS AS FUNCTION OF TEMPERATURE
NASA-TM-X-55049 N64-29182 21-06

SOLAR CELL ARRAYS FOR ELECTRICAL POWER GENERATION IN SPACE
AIAA PAPER-64-738 N64-29602 21-06

EFFECT OF IMPURITIES ON RADIATION DAMAGE IN SILICON SOLAR CELLS
NASA-RP-314 N64-30659 22-06

DIRECT READOUT EQUATORIAL WEATHER SATELLITE - TIROS SYSTEM, METEOROLOGICAL APPLICATION, AND SOLAR CELL POWER SUPPLY
AED-R-2169 N64-30669 22-32

FUEL CELL-SOLAR CELL COMBINATION UNIT AS AUXILIARY POWER SOURCE FOR MANNED SPACE LABORATORY
ASME PAPER-63-AHGT-71 N64-31017 22-06

THIN FILM CADMIUM TELLURIDE POLYCRYSTALLINE SOLAR CELLS
QTPR-4 N64-31252 22-06

THIN FILM CADMIUM SULFIDE SOLAR CELL ARRAY INVESTIGATION
QTPR-3 N64-32685 23-06

THIN FILM SOLAR CELLS AND SOLAR CELL TESTING - PHOTOVOLTAIC CELLS, RADIATION DAMAGE TO CADMIUM SULFIDE SOLAR CELLS, AND AIRPLANE TESTING OF SOLAR CELLS
NASA-CR-59014 N64-32726 24-06

THIN, POLYCRYSTALLINE, CADMIUM TELLURIDE SOLAR CELLS N64-32729 24-06

BACKWALL, THIN FILM, CADMIUM SULFIDE SOLAR CELL ON PLASTIC FILM SUBSTRATE N64-32730 24-06

CHEMICALLY SPRAYED THIN FILM PHOTOVOLTAIC CONVERTERS - SOLAR CELL N64-32731 24-06

CADMIUM SULFIDE SOLAR CELL DEVELOPMENTS
N64-32732 24-06

RADIATION DAMAGE TO CADMIUM SULFIDE, THIN FILM SOLAR CELLS N64-32733 24-06

SOLAR CELL CHARACTERISTICS AS FUNCTION OF ELECTRON IRRADIATION AND TEMPERATURE ON TABLE MOUNTAIN
N64-32734 24-06

AIRPLANE TESTING OF SOLAR CELLS
N64-32735 24-06

SPACE CALIBRATION OF STANDARD SOLAR CELLS USING HIGH ALTITUDE BALLOON FLIGHTS N64-32737 24-06

SOLAR CELL ARRAY SHADING AND METHOD TO REDUCE ASSOCIATED POWER LOSS N64-32739 24-06

FILTER WHEEL SOLAR SIMULATOR N64-32740 24-06

ELECTRIC POWER GENERATION FOR SPACE VEHICLES - BATTERIES, SOLAR CELLS, THERMOELECTRIC CONVERTERS, MAGNETOHYDRODYNAMIC CONVERTERS, FUEL CELLS, AND THERMIONIC CONVERTERS N64-32770 24-06

POSTIRRADIATION, ROOM TEMPERATURE ELECTRICAL CHARACTERISTICS OF FLIGHT-QUALITY SILICON SOLAR CELLS
NASA-TM-X-55098 N64-33631 24-06

SPACE-CALIBRATED PHOTOVOLTAIC STANDARD CELLS FOR EXTRAPOLATION OF SHORT-CIRCUIT CURRENT OF PHOTOVOLTAIC SYSTEMS TO SPACE ENVIRONMENT
NASA-CR-59359 N64-33773 24-06

SOLAR COLLECTOR
CF CONCENTRATOR
SOLAR ENERGY COLLECTOR

NASA-RP-45 N64-10288 01-29

STRUCTURAL & OPTICAL PERFORMANCE ANALYSES OF BRAYTON CYCLE SOLAR COLLECTOR
NASA-CR-52861 N64-11106 02-06

DEVELOPMENT OF SPACE STATION, SOLAR COLLECTOR, CRYOGENIC STORAGE TANK, AND ANTENNA FOR ELASTIC RECOVERY OF SPACE EXPANDABLE STRUCTURES
NASA-CR-55022 N64-11817 03-34

FABRICATION OF SOLAR CONCENTRATORS BY ELECTRO-FORMING
NASA-CR-55322 N64-13903 05-06

BRAYTON CYCLE SOLAR COLLECTOR DESIGN STUDY
NASA-CR-55394 N64-14279 06-06

CONE-AND-COLUMN DOUBLE REFLECTOR SOLAR CONCENTRATOR FOR SPACE EXPLORATION
NASA-CR-52845 N64-14904 06-06

DESIGN DATA FOR CONSTRUCTION OF ELECTROMECHANICAL SYSTEM WITH TWO DEGREES OF FREEDOM FOR SOLAR PADDLE ORIENTATION
NASA-TM-X-54604 N64-16032 07-06

CALORIMETRIC EFFICIENCY OF SPLIT-RIB UMBRELLA-TYPE PARABOLOIDAL SOLAR ENERGY CONCENTRATOR
NASA-TN-D-2015 N64-16116 08-06

RIGIDIZED INFLATABLE PARABOLIC SOLAR ENERGY COLLECTOR
NASA-CR-55733 N64-16333 08-06

SOLAR CONCENTRATOR DESIGN STUDY, PLATING AND COATING STUDIES
NASA-CR-55781 N64-16334 08-06

SOLAR CONCENTRATOR DESIGN STUDY, PLATING AND COATING STUDIES
NASA-CR-55782 N64-16335 08-06

DEVELOPMENT OF BRAYTON CYCLE SOLAR COLLECTOR
NASA-CR-53082 N64-16751 08-06

RIGID INFLATABLE SOLAR ENERGY CONCENTRATOR
NASA-CR-53316 N64-17767 09-06

RIGID INFLATABLE SOLAR ENERGY CONCENTRATOR
NASA-CR-53298 N64-17768 09-06

RIGID INFLATABLE SOLAR ENERGY CONCENTRATOR
NASA-CR-53299 N64-17769 09-06

RIGID INFLATABLE SOLAR ENERGY CONCENTRATOR
NASA-CR-53300 N64-17770 09-06

MINIMIZING OPTICAL DISTORTIONS OF GEL COATS USED IN FABRICATION OF RIGIDIZED INFLATABLE SOLAR ENERGY CONCENTRATORS
NASA-CR-53356 N64-17823 09-06

REFLECTIVITY OF BRAYTON CYCLE SOLAR COLLECTOR
NASA-CR-53357 N64-18104 10-06

POLYSULFIDE GEL COATING MATERIALS FOR RIGID SOLAR ENERGY COLLECTORS
NASA-CR-53355 N64-18105 10-06

MATERIALS SCIENCE - ELECTROFORMING OF HIGH QUALITY SPIN CASTING FOR SOLAR COLLECTOR
NASA-CR-53813 N64-19308 12-23

DESIGN AND PERFORMANCE CHARACTERISTICS OF BRAYTON CYCLE SOLAR COLLECTOR
NASA-CR-53504 N64-19999 12-06

CHEMICAL AND PHYSICAL PROPERTIES OF AZIDES FOR INFLATABLE SOLAR ENERGY COLLECTORS
NASA-CR-53991 N64-20582 13-06

STRETCH-FORMED ALUMINUM SOLAR CONCENTRATOR FOR SPACE POWER CONVERSION SYSTEMS
NASA-CR-47 N64-21420 14-06

STRETCH-FORMED ALUMINUM SOLAR CONCENTRATOR FOR THERMIONIC CONVERSION SYSTEMS
NASA-CR-54469 N64-22424 15-06

CHEMISTRY OF POLYURETHANE FOAM SYSTEMS AND APPLICATION OF SYSTEMS TO ENGINEERING AND DEVELOPMENT OF RIGIDIZABLE SHELTERS AND SOLAR COLLECTORS N64-23710 16-19

MECHANICALLY MIXED POLYURETHANE FOAM-RIGIDIZED SOLAR COLLECTOR N64-23721 16-19

LIMITATIONS OF SOLAR COLLECTORS FOR ENERGY CONVERSION SYSTEMS IN SPACECRAFT
ONERA-TP-100 N64-24002 16-15

FABRICATION OF SOLAR ENERGY COLLECTOR FOR USE IN SPACE ENVIRONMENT
NASA-CR-56457 N64-24051 16-31

LIGHTWEIGHT SOLAR COLLECTORS FOR CONVERSION OF THERMAL ENERGY TO ELECTRICITY
NASA-RP-223 N64-24556 17-05

LARGE ALL-METAL SOLAR CONCENTRATORS FOR SPACE POWER SYSTEMS N64-24905 17-06

PERFORMANCE TESTING OF TURBOALTERNATOR UNIT, SOLAR COLLECTOR, AND LITHIUM HYDRIDE CONTAINMENT CAPSULE FOR SUNFLOWER POWER CONVERSION SYSTEM
NASA-CR-58234 N64-27389 19-06

ENVIRONMENT, DESIGN, FABRICATION, TESTS, AND INSPECTION OF SUNFLOWER SOLAR COLLECTOR
NASA-CR-56558 N64-27396 19-06

SOLAR COLLECTOR, TURBO-ALTERNATOR, TEST RIG DESIGN, AND LITHIUM HYDRIDE CONTAINMENT STUDIES FOR SUNFLOWER POWER CONVERSION SYSTEM
NASA-CR-56206 N64-27828 19-06

FLIGHT EXPERIMENT TO DETERMINE EFFECTS OF SPACE ENVIRONMENT ON PERFORMANCE OF SOLAR CONCENTRATOR REFLECTIVE SURFACE
NASA-CR-55893 N64-27870 20-06

INFLATABLE STRUCTURE AND CONE-AND-COLUMN TYPES OF SOLAR CONCENTRATORS, AND RIGIDIZATION METHODS FOR USE IN SPACE
AIAA PAPER-64-733 N64-28409 20-06

SOLAR ENERGY CONCENTRATOR
AIAA PAPER-64-730 N64-28648 20-06

ELECTROFORMING OF ALUMINUN FOR SOLAR ENERGY CONCENTRATORS
NASA-CR-56408 N64-29781 21-07

CALORIMETRIC TESTING OF MIRROR FOR NICKEL ELECTROFORMED COLLECTOR TO PRODUCE SOLAR CONCENTRATORS
NASA-CR-103 N64-32688 23-17

SOLAR CORONA
MAGNETIC FIELDS IN CORONA AND SOLAR WIND AS MEASURED BY MARINER II SPACE PROBE
NASA-CR-52928 N64-12096 03-28

INDICES OF SOLAR CORONA
HAO-58 N64-14357 06-28

RADIO TELESCOPE OBSERVATION OF SOLAR CORONA, AND TRACKING STARS OF POLAR REGION N64-15268 07-05

PHYSICAL CONDITIONS IN SOLAR CORONA ABOVE ACTIVE REGION REVEALED BY RADIO TELESCOPE, AND MODEL OF CORONA N64-15269 07-28

FILAMENTARY STRUCTURE OF SOLAR CORONA AND EFFECT ON DYNAMICS OF SOLAR WIND N64-19301 12-28

COSMOLOGY - PLANETARY ORIGINS, STELLAR EVOLUTION, VARIABLE STARS, MAIN SEQUENCE STARS, SOLAR CORONA SPECTRA, AND ELEMENT FORMATION
JPRS-24358 N64-19451 12-05

SPECTRUM OF SOLAR CORONA N64-19462 12-28

OCCULTATION OF CRAB NEBULA BY SOLAR CORONA
AD-428675 N64-19920 12-05

RADIATION OF SOFT X-RAYS BY SOLAR CORONA
NASA-TT-F-8811 N64-22932 16-28

RADIATION OF SOLAR CORONA IN SPECTRA REGION WITH LAMBDA LESS THAN 10 ANGSTROMS
NASA-TT-F-9009 N64-23130 16-28

STRUCTURE OF SOLAR SUPERCORONA & RADIO EMISSION AND SCATTERING
NASA-TT-F-8935 N64-26788 18-[illegible]

INTENSITY AND POLARIZATION OF FORBIDDEN BANDS OF SOLAR CORONA SPECTRUM
NASA-TT-F-8930 N64-27363 19-28

OBSERVING SOLAR CORONA FROM LIMB OF SUN TO ZODIACAL LIGHT N64-28766 20-28

EVAPORATIVE MASS LOSS FROM IONIZED HYDROGEN GAS AND APPLICATION TO SOLAR CORONA
AFCRL-64-617 N64-29440 21-[illegible]

HIGH ALTITUDE OBSERVATIONS & PHOTOMETRY OF OUTER CORONA DURING TOTAL SOLAR ECLIPSE
RM-4226-RC N64-29863 21-28

DAILY MEAN INTEGRATED CORONAL INDICES FOR 1963
HAO-60 N64-30458 22-28

SOLAR CORONA OBSERVATION DURING NONECLIPSE TIME
NASA-TT-F-8952 N64-30845 22-[illegible]

FARADAY ROTATION OF COSMIC RADIO WAVE POLARIZATION PLANE - SOLAR SYSTEM CORONA OF IONIZED GAS
NASA-TT-F-8965 N64-30858 22-28

VELOCITY MEASUREMENT OF CORPUSCULAR STREAMS IN SOLAR CORONA BY SOLAR RADIO EMISSION
NASA-TT-F-227 N64-31082 22-28

SOLAR CORPUSCULAR STREAM
SOLAR PRODUCED HEAVY NUCLEI DETECTED BY EXPLORER VII N64-10167 01-28

SOLAR CORPUSCULAR STREAMS AND GEOMAGNETIC STORMS DURING FLIGHT OF MARINER II SPACE PROBE
NASA-TT-F-8877 N64-23048 16-28

COSMIC RADIATION, SOLAR CORPUSCULAR STREAMS, AND MAGNETIC STORMS
NASA-TT-F-127 N64-24422 17-28

EMISSION TIME AND ANGULAR WIDTH OF SOLAR CORPUSCULAR STREAMS FROM DURATION OF FORBUSH EFFECTS N64-24426 17-28

EFFECT OF SOLAR CORPUSCULAR STREAM MAGNETIZED ENVELOPE ON COSMIC RAYS N64-24431 17-28

SHORT-PERIOD PULSATION OF EARTH MAGNETIC FIELD DUE TO CORPUSCULAR STEAM INTRUSION ON STRATOSPHERE N64-24435 17-[illegible]

COSMIC RAY ANISOTROPY IN SOLAR CORPUSCULAR STREAMS N64-24446 17-28

SPATIAL MODEL OF GEOMAGNETIC FIELD OF EFFECTIVE SOLAR CORPUSCULAR FLUX BASED ON MARINER II MEASUREMENTS
NASA-TT-F-8904 N64-25288 17-[illegible]

HYDROGEN EMISSION IN AURORAL SPECTRA - INTERACTION OF SOLAR CORPUSCULAR STREAM WITH ATMOSPHERE N64-29070 21-[illegible]

PROPERTIES OF SOLAR CORPUSCULAR STREAMS FROM CHROMOSPHERIC FLARES N64-30282 22-28

VELOCITY MEASUREMENT OF CORPUSCULAR STREAMS IN SOLAR CORONA BY SOLAR RADIO EMISSION
NASA-TT-F-227 N64-31082 22-28

SOLAR CORPUSCULAR STREAMS OF PLASMA CLUSTERS WITH FORCE FREE MAGNETIC FIELD IN GEOMAGNETIC STORMS
NASA-TT-F-8967 N64-31560 23-28

SOLAR COSMIC RAY
RIOMETRIC OBSERVATIONS IN ANTARCTICA TO PROVIDE ABSORPTION DATA DURING SOLAR COSMIC RAY EVENTS
DOUGLAS PAPER-1655 N64-11285 02-[illegible]

RIOMETER OBSERVATIONS IN ANTARCTIC OF SOLAR COSMIC RAY EVENTS DURING 1962 & 1963 N64-13173 04-28

SOLAR FLARE PRODUCED COSMIC RAYS - OCCURRENCE, DECAY, ENERGY SPECTRUM, AND PROPAGATION MODEL
NASA-CR-55150 N64-13183 04-28

ELECTRON DENSITY PROFILES IN LOWER ATMOSPHERE DUE TO SOLAR COSMIC RAYS
CR-68 N64-15977 07-12

CHARACTERISTICS OF SOLAR COSMIC RAY EVENTS AND CORRELATION WITH SOLAR FLARE DATA
N64-17890 10-28

INTENSITIES AND ENERGIES OF SOLAR COSMIC RAY PARTICLES DETECTED NEAR EARTH N64-17891 10-28

ANISOTROPIES IN SOLAR COSMIC RAY FLUXES - CRITERIA FOR SPACE VEHICLE AND SHIELDING DESIGN
N64-17892 10-28

NUCLEAR COMPOSITION AND RIGIDITY SPECTRA OF SOLAR COSMIC RAYS
NASA-RP-248 N64-28750 20-28

REVIEW OF SOLAR COSMIC RAY EVENTS - MEASUREMENT TECHNIQUES, ONSET AND DECAY PHASES, AND SPECTRA AND INTENSITIES OF SPECIFIC EVENTS
N64-30277 22-28

CHARGE COMPOSITION OF ENERGETIC PARTICLES IN SOLAR COSMIC RAYS N64-30279 22-28

ABSOLUTE SOLAR COSMIC RAY INTENSITY RELATION WITH RIOMETER ABSORPTION BY EXPLORER VII SATELLITE
SUI-64-29 N64-30973 22-28

SOLAR CYCLE
CHANGES IN VAN ALLEN BELT PROTON POPULATION DURING SOLAR CYCLE
NASA-TM-X-55013 N64-27250 19-28

CORPUSCULAR RADIATION ON DESCENDING CURVE OF SOLAR ACTIVITY CYCLE
NASA-TT-F-225 N64-34019 24-28

SOLAR ECLIPSE
GEIGER COUNTER FOR NIKE-APACHE LAUNCHED PROBE OF SOFT X RAYS IN IONOSPHERE DURING SOLAR ECLIPSE
NASA CR-52164 N64-10086 01-12

POLARIZATION DISTRIBUTION OF LIGHT IN SKY DUE TO SECONDARY SCATTERING DURING TOTAL SOLAR ECLIPSE
AD-410175 N64-12281 03-05

SOLAR RADIATION FLUX DURING SOLAR ECLIPSE
AFCRL-63-796 N64-13647 05-28

3.2-MM SOLAR RADIATION DURING SOLAR ECLIPSE - LIMB SCANNING
AFCRL-63-900 N64-13721 05-28

PHYSICAL AND MATHEMATIC APPROXIMATIONS APPLIED TO LINEAR EQUATION SYSTEMS, EQUATIONS WITH PARTIAL DERIVATIVES, AND SOLAR ECLIPSE OBSERVATIONS
N64-16212 08-20

IONOSPHERE OBSERVATION DURING 20 JULY 1963 SOLAR ECLIPSE
AFCRL-64-24 N64-17506 09-12

SOLAR ECLIPSE DATA - CORONAL EMISSION SPECTRA AND ELECTRON CORONA
HAO-59 N64-18124 10-28

SOLAR ECLIPSE EFFECT UPON PENDULUM PLANE OF OSCILLATION AND GRAVIMETER
FTD-TT-63-155/1 N64-19195 11-23

BIBLIOGRAPHY ON SKY BRIGHTNESS, LIGHT POLARIZATION, AND CORONA PHOTOMETRY DURING SOLAR ECLIPSES
AID-B-64-20 N64-20468 13-28

CHANGES OCCURRING IN OZONOSPHERE DURING TOTAL ECLIPSE OF SUN
WRE-TN-PAD-84 N64-23059 16-12

SOLAR ECLIPSE FLIGHT EXPEDITION FOR OBSERVATIONS FROM STRATOSPHERE
G-36439 N64-26945 18-05

HIGH ALTITUDE OBSERVATIONS & PHOTOMETRY OF OUTER CORONA DURING TOTAL SOLAR ECLIPSE
RM-4226-RC N64-29863 21-29

SOLAR CORONA OBSERVATION DURING NONECLIPSE TIME
NASA-TT-F-8952 N64-30845 22-05

REFINING GEODETIC TECHNIQUES USING TERRESTRIAL AND SPATIAL CONFIGURATIONS - PHOTOELECTRIC OBSERVATIONS OF SOLAR ECLIPSE
AFCRL-64-699 N64-31823 23-12

RADIO SIGNAL SCINTILLATION FROM CASSIOPEIA A DURING SOLAR ECLIPSE
AFCRL-64-662 N64-32629 23-28

SPECTROGRAPHIC OBSERVATION FROM AIRCRAFT OF UPPER ATMOSPHERIC RADIATION DURING SOLAR ECLIPSE
N64-32710 24-12

TOTAL SOLAR ECLIPSE OF 30 MAY, 1965 - PATH AND LOCAL CIRCUMSTANCES N64-32788 24-28

SOLAR RADIATION AT 3.2 MM DURING JULY 20, 1963 ECLIPSE N64-33155 24-25

SUGGESTIONS FOR OBSERVATIONS OF SUN AND EARTH ECLIPSES FROM MOON
NASA-CR-58778 N64-33180 24-29

SOLAR ENERGY
SA SOLAR RADIATION
SA SOLAR WIND
SOLAR ENERGY COLLECTOR
NASA-RP-45 N64-10288 01-29

CONTROL OF ENTIRE EARTH CLIMATE BY REGULATING INCIDENT SOLAR ENERGY - PROJECTS FOR CLIMATE CONTROL OVER LOCAL GEOGRAPHIC AREAS
JPRS-19145 N64-11126 02-21

OPTIMIZATION OF THIN FILM GALLIUM ARSENIDE JUNCTIONS OF PHOTOVOLTAIC BARRIERS IN SOLAR ENERGY CONVERTERS
NASA-CR-55741 N64-15877 07-06

CALORIMETRIC EFFICIENCY OF SPLIT-RIB UMBRELLA-TYPE PARABOLOIDAL SOLAR ENERGY CONCENTRATOR
NASA-TN-D-2015 N64-16116 08-06

HEAT ACTIVATED RIGIDIZERS FOR INFLATABLE SOLAR ENERGY CONCENTRATOR
NASA-CR-55798 N64-16271 08-06

ONE-DIMENSIONAL HEAT TRANSFER ANALYSIS OF THERMAL-ENERGY STORAGE FOR SOLAR DIRECT-ENERGY CONVERSION SYSTEMS
NASA-TN-D-2119 N64-17294 09-13

GROUND BASED SOLAR PHOTOVOLTAIC ENERGY CONVERTERS
N64-17379 09-06

ORBIT APOGEE, PERIGEE, AND INCLINATION INFLUENCE ON DESIGN OF SOLAR ENERGY SYSTEMS
N64-17380 09-06

CADMIUM SULFIDE LARGE AREA THIN FILM PHOTOVOLTAIC SOLAR ENERGY CONVERTER
NASA-CR-55738 N64-17681 09-06

MINIMIZING OPTICAL DISTORTIONS OF GEL COATS USED IN FABRICATION OF RIGIDIZED INFLATABLE SOLAR ENERGY CONCENTRATORS
NASA-CR-53356 N64-17823 09-06

THERMAL AND PHOTON PROCESSES OF SOLAR ENERGY CONVERSION N64-19830 12-06

CHEMICAL AND PHYSICAL PROPERTIES OF AZIDES FOR INFLATABLE SOLAR ENERGY COLLECTORS
NASA-CR-53991 N64-20582 13-06

FEASIBILITY OF COMBINING SOLAR ENERGY, THERMAL STORAGE, AND THERMOELECTRIC GENERATOR AS POWER SUPPLY FOR SPACE APPLICATION

RTD-TDR-63-4248 N64-21568 15-06

SOLAR ENERGY THERMIONIC CONVERTER DESIGN N64-22992 16-09

FABRICATION OF SOLAR ENERGY COLLECTOR FOR USE IN SPACE ENVIRONMENT
NASA-CR-56457 N64-24051 16-31

PARABOLIC SOLAR ENERGY CONCENTRATOR MODEL
RTD-TDR-63-4051 N64-25868 18-34

POWER DENSITY AND STORAGE CAPACITY IN STORAGE AND CONVERSION SYSTEMS FOR WIND AND SOLAR ENERGY N64-29486 21-06

SOLAR-ELECTRIC ENERGY CONVERSION WITH INTERMEDIATE STORAGE N64-29491 21-06

EVAPORATIVE DEPOSITION OF LARGE AREA THIN FILMS FOR PHOTOVOLTAIC CONVERSION OF SOLAR ENERGY
NASA-CR-54145 N64-29708 21-06

SOLAR ASPECT SENSOR FOR SOUNDING ROCKETS - PHOTOVOLTAIC DEVICE
NASA-CR-58844 N64-33166 24-15

SOLAR SPACE POWER SUPPLY - FRESNEL REFLECTOR, HELIOTROPIC ORIENTATION, BELT RADIATOR, & ROTARY BOILER-TURBINE
NASA-CR-58760 N64-33801 24-06

SOLAR ENERGY THERMIONIC /SET/ PROGRAM
SOLAR ENERGY THERMIONIC SYSTEM DEVELOPMENT - CONCENTRATORS AND DIODES
NASA-CR-52269 N64-10101 01-06

CESIUM AND SOLAR ENERGY THERMIONIC CONVERTERS AND GENERATORS N64-14204 06-01

PROGRAM DEVELOPMENT OF SOLAR ENERGY THERMIONIC CONVERTERS AND GENERATORS N64-14214 06-06

SOLAR FACULA
EFFECTS OF ERRORS IN FACULA-PHOTOSPHERE CONTRAST OBSERVATIONS ON ACCURACY OF FACULA SOURCE FUNCTION DETERMINATIONS
NASA-TT-F-235 N64-29512 21-05

SOLAR FLARE
CF SUNSPOT
ROLE OF MAGNETOHYDRODYNAMICS, MAGNETIC FIELDS, AND CONDUCTIVE PLASMA INSTABILITIES IN SOLAR FLARE ORIGIN
NASA-RP-72 N64-10977 02-28

SPECTROHELIOGRAM STUDY OF OPTICAL PHENOMENA ASSOCIATED WITH SOLAR FLARES
DGO-11.162 N64-11500 03-28

SOLAR WEATHER - SOLAR MAGNETIC FIELD, WIND, FLARES, ULTRAVIOLET, AND FLUID BETWEEN SUN & EARTH N64-11727 03-28

SOLAR FLARE ATTENUATION BY ALUMINUM SHIELDS - NUCLEON-MESON CASCADE CALCULATIONS FOR SOLAR FLARE PROTON SPECTRA ON SHIELD N64-12538 04-23

SOLAR FLARE PRODUCED COSMIC RAYS - OCCURRENCE, DECAY, ENERGY SPECTRUM, AND PROPAGATION MODEL
NASA-CR-55150 N64-13183 04-28

OPTICAL & CORPUSCULAR SOLAR FLARE RADIATION
RTD-TDR-63-3044 N64-13779 05-28

SATELLITE FOR EVALUATION OF SOLAR FLARE HAZARDS FOR NEAR-EARTH MANNED SPACE MISSIONS - FARO SATELLITE
RTD-TDR-63-3010 N64-13780 05-28

ATTENUATION OF SOLAR FLARES BY ALUMINUM SHIELDS OF SLAB AND SPHERICAL-SHELL GEOMETRIES OF VARYING THICKNESS
ORNL-3520 N64-14247 06-23

MAGNETIC FIELD ANNIHILATION RATE AT BOUNDARY BETWEEN PLASMA REGIONS WITH OPPOSING FIELD LINES - SOLAR FLARE MECHANISMS & MAGNETOHYDRODYNAMIC WAVES
AMP-123 N64-14318 06-28

FLUX AND ENERGY SPECTRUM MEASUREMENTS OF HYDROGEN, HELIUM, AND HEAVY NUCLEI FROM SOLAR FLARES
NASA-RP-19 N64-14857 06-28

HAZARDS ASSOCIATED WITH VAN ALLEN PROTONS AND SOLAR FLARES
AD-428574 N64-15420 07-28

INFLUENCE OF SOLAR FLARES ON TRANSARCTIC HIGH FREQUENCY RADIO PROPAGATION N64-15434 07-08

SOLAR FLARE EFFECTS IN D AND E LAYERS OF IONOSPHERE N64-15435 07-12

EFFECT OF SOLAR FLARES ON D-REGION PRODUCING IONOSPHERIC ABSORPTION OF RADIO WAVES AND SUDDEN INCREASE OF IONIZATION N64-15437 07-12

ATTENUATION OF SOLAR FLARE BY ALUMINUM SHIELD - SPACE VEHICLE SHIELDING
ORNL-3549 N64-15995 07-23

IMPORTANCE OF SOLAR-FLARE PROTON FUNCTIONS FOR SHIELDING OF MANNED SPACE VEHICLES
ORNL-3583 N64-17778 09-30

CHARACTERISTICS OF SOLAR COSMIC RAY EVENTS AND CORRELATION WITH SOLAR FLARE DATA N64-17890 10-28

INDEX OF FLARES FOR INTERNATIONAL GEOPHYSICAL YEAR
IGY SOLAR ACT. REPT. SER.-25 N64-18000 10-28

SPECTRA OF SOLAR GASEOUS MATERIALS AND INTENSITY OF SOLAR FLARES
AFCRL-64-51 N64-18021 10-28

SPECTROPHOTOMETRIC INSTRUMENTATION & OBSERVATIONS OF SOLAR FLARES, AND VISUAL OBSERVATIONS
AD-433788 N64-18462 10-28

RADIATION DOSE DISTRIBUTION IN MODEL ASTRONAUT
AMRL-TDR-64-9 N64-18629 11-14

PERFORMANCE OF TELESCOPES, REMOTELY CONTROLLED TELESCOPE SYSTEM /RCTS/, SOLAR FLARE STUDIES AND CONSTRUCTION OF NEW OBSERVATORY FACILITIES N64-19047 11-10

PHOTOMETRIC PROCESSING OF SOLAR FLARES
AID-T-63-49 N64-19424 12-28

TRIGONOMETRIC FUNCTIONS FOR CORRECTION OF SOLAR FLARE DISTRIBUTION AREA
AD-437509 N64-19638 12-28

SPECTROGRAMS OF HYDROGEN H-ALPHA LINE DURING SOLAR FLARE
AD-437506 N64-19639 12-28

CHANGES IN VLF RADIO NOISE ACCOMPANYING SOLAR FLARE AND ASSOCIATED SUDDEN IONOSPHERIC DISTURBANCE
AD-428169 N64-20491 13-28

SOLAR FLARE EFFECTS ON VERY LOW FREQUENCY PROPAGATION PATHS
NBS-TN-210 N64-21213 14-08

RADIO AND X-RAY EMISSION OF SOLAR FLARES
SRN-50 N64-21755 15-28

INCREASE IN COSMIC RAY INTENSITY IN HARD COMPONENT DURING SMALL CHROMOSPHERIC FLARES ON SUN
NASA-TT-F-9005 N64-23054 16-28

RAPID RUN INDUCTION TELLURIGRAMS, MAGNETOGRAMS, AND OBSERVATIONS OF MAGNETIC STORMS, SUDDEN IMPULSE, SOLAR FLARES, AND PULSATION
REPT.-3 N64-23904 16-12

SOLAR FLARE FORECASTS & PREDICTION - BIBLIOGRAPHY
AID-P-63-43 N64-24140 16-28

EFFECT OF SMALL SOLAR FLARES ON INTENSITY OF NEUTRON COMPONENT OF COSMIC RAYS N64-24434 17-28

NUCLEAR PROCESSES IN CHROMOSPHERIC FLARES

NASA-TT-F-214 N64-24836 17-23

RELATIVE ABUNDANCES OF ENERGETIC HYDROGEN ISOTOPES PRODUCED IN SOLAR FLARES
TR-CR-71 N64-24877 17-28

SOLAR FLARE PREDICTION BASED ON STUDY OF SOLAR LIMB CHARACTERISTICS
HAO-ASTRO-GEOPHYS-MEMO-163 N64-25122 17-28

COSMIC RAY INTENSITY VARIATIONS IN STRATOSPHERE CAUSED BY CHROMOSPHERIC SOLAR FLARES
JPRS-25641 N64-26085 18-28

MORPHOLOGICAL PROPERTY OF SUNSPOT GROUPS RELATED TO FLARES INVOLVING RADIO EMISSION
NASA-TT-F-8925 N64-26928 18-05

CORRELATION OF IONOSPHERIC PROPAGATION PROPERTIES WITH SOLAR FLARES AND GEOMAGNETIC STORMS OBSERVED BY OBLIQUE LONG RANGE HIGH FREQUENCY PROBING
AFCRL-64-455 N64-29908 21-28

CONFERENCE ON SOLAR FLARES
NASA-SP-50 N64-30251 22-28

SOLAR FLARE STRUCTURE, DEVELOPMENT, AND MOTION
N64-30252 22-28

SPECTROHELIOGRAPHIC STUDY OF MOVING MATERIAL ACCOMPANYING SOLAR FLARE OF JULY, 1959
N64-30253 22-28

OPTICAL PROPERTIES OF CHROMOSPHERIC SOLAR FLARES ASSOCIATED WITH TYPE IV BURSTS OR NOISE STORMS
N64-30254 22-28

VARIATIONS IN OBSERVATION AND RATINGS OF IMPORTANCE OF SOLAR FLARES N64-30255 22-28

SPECTROGRAPHY OF SOLAR FLARES N64-30256 22-28

SOLAR FLARES IN LIGHT OF HYDROGEN LYMAN ALPHA RADIATION MONITORED BY ORBITING SOLAR OBSERVATORY /OSO/ N64-30258 22-28

BROADENING AND ASYMMETRY OF EMISSION LINES IN SOLAR FLARES N64-30259 22-28

SOLAR FLARES AND LOOP PROMINENCE MECHANISM
N64-30260 22-28

MASS BALANCE IN SOLAR FLARE LOOPS
N64-30261 22-28

STARK EFFECT /BROADENING/ ON HIGH BALMER SERIES LINES EMITTED BY SOLAR FLARES N64-30262 22-28

OBSERVATIONS OF SOLAR MAGNETIC FIELDS AND FLARES
N64-30263 22-28

BEHAVIOR OF MAGNETIC FIELDS ASSOCIATED WITH SOLAR FLARES N64-30264 22-28

ASSOCIATION OF SOLAR FLARES WITH STATIONARY POINTS OF ZERO MAGNETIC FIELD N64-30265 22-28

OBSERVED EFFECTS OF MAGNETIC ENERGY STORAGE AND RELEASE CONNECTED WITH SOLAR FLARES
N64-30266 22-28

HIGH ENERGY X-RAY BURSTS FROM SOLAR FLARES
N64-30267 22-28

COMPARISON OF SOLAR X-RAYS WITH MICROWAVE RADIATION USING ORBITING SOLAR OBSERVATORY /OSO/ DATA N64-30268 22-28

HIGH ENERGY X-RAY BURSTS OBSERVED BY ORBITING SOLAR OBSERVATORY I N64-30269 22-28

X-RAY LINE SPECTRUM, SPECTROHELIOGRAPH RESULTS, & FAN BEAM SCANS OF SOLAR X-RAY EMISSION
N64-30270 22-28

RADIO OBSERVATION OF SOLAR FLARES AT CENTIMETER & METER WAVELENGTHS N64-30271 22-28

MEASUREMENT OF SLOWLY VARYING COMPONENT OF SOLAR RADIO EMISSION AT CENTIMETER AND DECIMETER WAVELENGTHS N64-30272 22-28

RELATIONSHIP BETWEEN SOLAR NOISE STORM IN VERY HIGH FREQUENCY BAND AND SOLAR FLARE - INTERFEROMETRY N64-30273 22-28

SLOWLY VARYING COMPONENT IN SUPERHIGH FREQUENCY BAND AS FUNCTION OF SOLAR ACTIVITY
N64-30274 22-28

ACTIVE DARK FILAMENTS AND TYPE III BURSTS
N64-30275 22-28

ASSOCIATION OF BREMSSTRAHLUNG X-RAYS WITH EXPLOSIVE SOLAR FLARES N64-30276 22-28

REVIEW OF SOLAR COSMIC RAY EVENTS - MEASUREMENT TECHNIQUES, ONSET AND DECAY PHASES, AND SPECTRA AND INTENSITIES OF SPECIFIC EVENTS
N64-30277 22-28

RELATION OF TYPE IV CONTINUUM EMISSION AND ENERGETIC PARTICLE RADIATION ASSOCIATED WITH SOLAR FLARES N64-30278 22-28

CHARGE COMPOSITION OF ENERGETIC PARTICLES IN SOLAR COSMIC RAYS N64-30279 22-28

MARINER II MEASUREMENTS OF SOLAR PLASMA STREAMS FROM PLAGE REGIONS AND FROM FLARES
N64-30280 22-28

NUCLEAR REACTIONS ON SOLAR SURFACE - RADIOCHEMICAL STUDIES OF MATERIAL RECOVERED FROM DISCOVERER XVII LAUNCHED DURING SOLAR FLARE N64-30281 22-28

PROPERTIES OF SOLAR CORPUSCULAR STREAMS FROM CHROMOSPHERIC FLARES N64-30282 22-28

ROLE OF FLARE-LIKE NONSTATIONARY PROCESSES IN ORIGIN OF SOLAR WIND FROM ANALYSIS OF GEOMAGNETIC DISTURBANCES N64-30283 22-28

VELOCITY DEPENDENCE AND SOURCE SPECTRA OF SOLAR PROTON EVENTS N64-30284 22-28

LARGE SOLAR FLARE SERIES OF JULY 1961 - EVOLUTION OF ACTIVE REGION AND FLARE PHENOMENA FROM H-ALPHA PHOTOGRAPHS AND RADIO BURST RECORDS
N64-30285 22-28

RELATION OF SOLAR FLARE OBSERVATIONS TO THEORY - MACROSCOPIC STRUCTURE, MAGNETIC FIELD CHANGES, MICROSTRUCTURE, ENERGY AND MASS BALANCE, AND FILAMENT PHENOMENA N64-30286 22-28

GENERATION MECHANISMS OF RADIO AND X-RAY BURSTS FROM SOLAR FLARES - BREMSSTRAHLUNG FROM SOLAR PLASMA, GYRO AND SYNCHROTRON RADIATION FROM ELECTRONS, AND PLASMA RADIATION
N64-30287 22-28

SOLAR RADIO BURST GENERATION - PROPAGATION MODES IN SOLAR PLASMA, RADIATION PROCESSES, AND PLASMA WAVES N64-30288 22-28

THEORETICAL INTERPRETATION OF TYPE III SOLAR RADIO BURST N64-30289 22-28

RELATIONS OF X-RAY RADIATION, PARTICLE EMISSION, AND RADIO EMISSION DURING SOLAR FLARES
N64-30290 22-28

RADIOFREQUENCY RADIATION AND PARTICLE ACCELERATION FROM SOLAR FLARE FILAMENTS DUE TO ROTATIONAL COLLECTIVE MOTION OF ELECTRONS OR IONS
N64-30291 22-28

ELECTROMAGNETIC RADIATION FROM PLASMA OSCILLATIONS AND TYPE III SOLAR RADIO BURSTS
N64-30292 22-28

TYPE II SOLAR RADIO BURSTS AND MAGNETIC FIELD IN CORONA N64-30293 22-28

MAGNETIC ENERGY DISSIPATION IN SOLAR ATMOSPHERE BOTH IN STEADY PLAGE CONDITION AND IN SOLAR FLARE EVENTS N64-30294 22-28

ORIGIN OF SOLAR FLARES AND ACCELERATION OF CHARGED PARTICLES N64-30295 22-28

HYDROMAGNETIC INSTABILITY IN ORIGIN OF SOLAR FLARES N64-30296 22-28

DISCHARGE THEORY OF SOLAR FLARES - GROWTH RATE OF FLARES, PARTICLE ACCELERATION, TOPOLOGY OF MAGNETIC FIELDS, AND PROTON EVENT PREDICTION N64-30297 22-28

NATURE OF SOLAR FLARES - MAGNETIC FIELD ENERGY SOURCE AND PREDICTION OF FLARE OCCURRENCE N64-30298 22-28

MECHANISM FOR DISSIPATION OF MAGNETIC FIELD IN SOLAR FLARES N64-30299 22-28

STABILITY OF SOLAR MAGNETIC FIELD IN REGION OF FLARES N64-30300 22-08

NUCLEAR REACTION PRODUCTS IN SOLAR FLARE REGIONS - GAMMA RAYS AND NEUTRON N64-30301 22-28

SOLAR FLARE PROCESS - SOLAR WIND AS ENERGY SOURCE, MAGNETIC STORAGE OF ENERGY, AND PARTICLE ACCELERATION N64-30302 22-28

SATELLITE MEASUREMENTS OF X-RAY EMISSION, CHARGED PARTICLE FLUX, AND SOLAR FLARES N64-30572 22-28

SOLAR FLARES AND SPACE RADIATION N64-30717 22-16

SATELLITE SYSTEM TO EVALUATE SOLAR FLARE AND RADIATION BELT HAZARD TO NEAR-EARTH MANNED SPACE MISSIONS
AFWL-TDR-64-67 N64-33552 24-32

HELIOGRAPHIC LONGITUDE OF SOLAR FLARES PRODUCING ENERGETIC PARTICLES
NASA-TM-X-55086 N64-33628 24-28

SPECTRAL VARIATIONS IN SPECIFIC SOLAR FLARE PARTICLE EVENTS AND ASSOCIATED RADIATION DOSES FOR VARYING SHIELDING THICKNESSES
NASA-RP-355 N64-33890 24-28

SOLAR GENERATOR
POWER SOURCE FOR TELSTAR SATELLITE FROM SOLAR GENERATING PLANT N64-11085 02-06

SOLAR FLAT PLATE THERMOELECTRIC GENERATOR
QR-3 N64-13985 05-06

CESIUM AND SOLAR ENERGY THERMIONIC CONVERTERS AND GENERATORS N64-14204 06-01

ELECTRICAL TESTING OF GENERATOR FOR SOLAR THERMIONIC CONVERTERS N64-14213 06-06

PROGRAM DEVELOPMENT OF SOLAR ENERGY THERMIONIC CONVERTERS AND GENERATORS N64-14214 06-06

USE OF HIGH TEMPERATURE THERMOELECTRIC GENERATORS POWERED WITH NUCLEAR AND SOLAR HEAT SOURCES IN AEROSPACE VEHICLES
QPR-1 N64-14302 06-06

SPRAY RIGIDIZATION OF MIRROR OF SOLAR MECHANICAL POWER GENERATOR
GER-10252/514 N64-18502 10-06

EVALUATION OF 100 WATT SOLAR THERMIONIC GENERATOR
TRW-ER-6044 N64-28773 20-06

CONCENTRATOR, HEAT RECEIVER, ORIENTATION SYSTEM, AND TRACKING RIG FOR SOLAR MECHANICAL ENGINE
CORD-63-5038 N64-32043 23-27

SOLAR GRANULATION
S PHOTOSPHERE
S SOLAR CORPUSCULAR STREAM

SOLAR HEAT
HIGH TEMPERATURE THERMOELECTRIC GENERATORS WITH NUCLEAR & SOLAR HEAT SOURCES FOR SPACECRAFT POWER SUPPLY
AD-437280 N64-20024 13-09

MISSION ANALYSIS FOR SOLAR HEATED HYDROGEN PROPULSION SYSTEM - SYSTEM WEIGHT ANALYSIS
NASA-CR-59332 N64-33809 24-27

SOLAR LONGITUDE
S ASTRONOMICAL COORDINATE

SOLAR MAGNETIC FIELD
SOLAR WEATHER - SOLAR MAGNETIC FIELD, WIND, FLARES, ULTRAVIOLET, AND FLUID BETWEEN SUN & EARTH N64-11727 03-28

STRUCTURE OF MAGNETIC FIELDS IN ACTIVE REGION OF SUN
NASA-TT-F-144 N64-12693 04-28

INSTRUMENTATION FOR STUDY OF SUNSPOTS AND GENERAL SOLAR MAGNETIC FIELDS AT ROME ASTRONOMICAL OBSERVATORY - SPECTROGRAPHS AND MAGNETOGRAPH
AFCRL-64-114 N64-18584 11-28

ANALYSIS OF SOLAR MAGNETIC FIELDS AND CHROMOSPHERIC PHENOMENA
AD-433517 N64-18768 11-12

SOLAR MAGNETIC FIELDS
LAC/422637 N64-25820 17-29

OBSERVATIONS OF SOLAR MAGNETIC FIELDS AND FLARES N64-30263 22-28

MAGNITUDE AND DIRECTION OF MAGNETIC FIELD IN SUNSPOT REGION
NASA-TT-F-8850 N64-31447 23-28

SPECTROPHOTOMETRY OF SOLAR MAGNETIC FIELD
NASA-TT-F-8982 N64-33389 24-28

DATA REDUCTION OF SOLAR MAGNETIC FIELD SURVEY - CORRELATION OF CONFIGURATIONS AND CHANGES WITH CHROMOSPHERIC PHENOMENA
AD-444351 N64-33828 24-28

SOLAR NOISE
SOLAR RADIO NOISE AND SUNSPOT STRUCTURE
AFCRL-64-335 N64-22299 15-28

SOLAR OBSERVATORY
S ASTRONOMICAL OBSERVATORY

SOLAR PHYSICS
NONRELATIVISTIC ELECTRONS IN MAGNETIC FIELD AND APPLICATION TO SOLAR PHYSICS
E-T-CH-63-3 N64-12198 03-28

EXPERIMENTS & RESEARCH IN ASTRONOMY, SOLAR PHYSICS, PLANETARY ATMOSPHERES, IONOSPHERES & RADIO PHYSICS, PARTICLES & FIELDS, AND BIOSCIENCES
NASA-TM-X-51603 N64-19258 11-01

SOLAR PHYSICS AND EFFECTS OF SOLAR PHENOMENA ON EARTH
AFCRL-64-275 N64-21021 14-28

BIREFRINGENT FILTER AND APPLICATION IN SOLAR PHYSICS - CORONA OBSERVATION
AD-445281 N64-33859 24-28

SOLAR PLASMA
OUTER GEOMAGNETIC FIELD INTERACTION WITH SOLAR PLASMA STREAMS MEASURED BY SPACE PROBES
IPPJ-12 N64-11252 02-12

SHOCK WAVES IN INTERPLANETARY PLASMA
NASA-CR-53364 N64-17817 09-28

MARINER II SPACE PROBE INSTRUMENT FOR MEASURING INTERPLANETARY SOLAR PLASMA
NASA-CR-56038 N64-20603 13-15

MARINER II MEASUREMENTS OF SOLAR PLASMA STREAMS FROM PLAGE REGIONS AND FROM FLARES N64-30280 22-28

SOLAR POWER SYSTEM
PERMEABILITY OF HYDROGEN THROUGH VARIOUS METALS & PERFORMANCE OF SOLAR POWERED CONVERSION SYSTEM -

SUNFLOWER
NASA-CR-52962 N64-11800 03-06

LASER WITH SUN AS PUMPING SOURCE
N64-12567 04-25

ANNOTATED BIBLIOGRAPHY OF AUXILIARY POWER SYSTEMS FOR SPACECRAFT - SOLAR AND NUCLEAR AUXILIARY POWER SOURCES
SB-63-46 N64-12674 04-06

SUN-POWERED LASER TRANSMITTER - MATERIALS, DESIGN, FABRICATION, COOLING, AND OPERATION
ASD-TDR-63-727 N64-12870 04-25

STEAM RANKINE CYCLE SOLAR POWER SYSTEM
NASA-TM-X-51110 N64-14264 06-06

SOLAR BRAYTON CYCLE POWER SUPPLY - NASA PROGRAM
NASA-TM-X-51112 N64-14265 06-06

BRAYTON CYCLE SOLAR COLLECTOR DESIGN STUDY
NASA-CR-55394 N64-14279 06-06

FEASIBILITY OF THERMAL ENERGY STORAGE FOR ORBITING SOLAR SPACE POWER SYSTEMS
WADD-TR-61-118 N64-16788 08-06

CYCLE LIFE TESTS OF THERMIONIC CONVERTERS FOR SOLAR POWER SYSTEMS
ASD-TDR-62-1069 N64-19206 11-06

LARGE ALL-METAL SOLAR CONCENTRATORS FOR SPACE POWER SYSTEMS
N64-24905 17-06

HELEOTROPIC ORIENTATION DEVICE FOR CONCENTRATOR IN SOLAR POWER GENERATION SYSTEMS
NASA CR-56410 N64-26581 18-06

SOLAR POWERED LASER TRANSMITTER
IER-2 N64-26652 18-25

EXPERIMENTAL VERIFICATION OF SUN POWERED LASER TRANSMITTER PERFORMANCE
AD-437865 N64-26674 18-25

SOLAR BRAYTON CYCLE CAVITY RECEIVERS WITH LITHIUM FLUORIDE HEAT STORAGE
AIAA PAPER-64-727 N64-28375 20-06

ENERGY COLLECTION & CONVERSION SYSTEMS FOR SOLAR MECHANICAL ENGINE
CORO-64-5039 N64-32358 23-06

CONCENTRATOR, HEAT RECEIVER, AND ORIENTATION SYSTEM FOR SOLAR DYNAMIC POWER SYSTEM
CORO-64-5044 N64-32576 23-06

SPACE SOLAR POWER SUPPLY - CENTRIFUGALLY DEPLOYED FRESNEL REFLECTOR, HELIOTROPIC ORIENTATION SYSTEM, BELT RADIATOR, AND TURBO-ALTERNATOR
NASA-CR-122 N64-32831 24-06

SOLAR, DYNAMIC, SPACE POWER SYSTEM USING STEAM AS WORKING FLUID
ASTRA-846-6.1 N64-33751 24-06

SOLAR PROBE
ORBIT SELECTION FOR SOLAR PROBE SPACECRAFT
AIAA PAPER-64-646 N64-27673 19-29

OBSERVATIONS FROM CLOSE SOLAR PROBE
NASA-TM-X-51877 N64-27831 19-29

SOLAR PROPULSION
COMBINED SOLAR HYDROGEN PROPULSION AND ELECTRIC POWER SYSTEM
NASA-CR-58181 N64-26578 18-27

COMPARATIVE PROPULSION SYSTEMS AND ENERGY REQUIREMENTS FOR SPACE MANEUVERS - MISSION ANALYSIS OF SOLAR HYDROGEN PROPULSION SYSTEMS
NASA-CR-59366 N64-33917 24-27

SOLAR PROTON
SOLAR PROTON STUDIES
NASA-TR-R-169 N64-17889 10-28

TABLE OF SOLAR PROTON EVENTS FROM 1949 TO PRESENT
N64-17894 10-28

SPECTRUM AND INTENSITY CHANGES OF COSMIC RADIATION AND SOLAR PROTON FLUX DURING MAXIMUM SOLAR ACTIVITY
AFOSR-64-0632 N64-20471 13-28

SOLAR PROTON SPECTRUM ANALYSIS
NASA-RP-172 N64-21275 14-28

SOLAR PROTONS AND GEOPHYSICAL EFFECTS
N64-24229 16-12

LUNAR LUMINESCENT EXCITATION BY SOLAR PROTONS - BOMBARDMENT OF STONY METEORITES
N64-32077 23-28

SOLAR PROTON ACTIVITY OBSERVED BY EXPLORER XII AND XIV SATELLITES
NASA-TM-X-55087 N64-33562 24-28

SOLAR RADIATION
CF SOLAR ENERGY
SOLAR RADIATION PRESSURE EFFECT ON SATELLITE ATTITUDE CONTROL
ARC-R&M-3332 N64-10053 01-28

EFFECT OF SOLAR RADIATION ON HUMAN BLOOD AND CIRCULATORY SYSTEM
JPRS-21864 N64-10327 01-16

SILICON PHOTOVOLTAIC CELL FOR MEASUREMENT OF TRANSMITTANCE AND REFLECTANCE OF TRANSPARENT MATERIALS FOR SOLAR RADIATION N64-10955 02-15

BIOLOGICAL EFFECT OF COSMIC AND SOLAR RADIATIONS ON HUMAN BODY AT HIGH ALTITUDES
N64-11700 03-16

INTENSITY VARIATION OF SOLAR EXTREME ULTRAVIOLET RADIATION HAVING A PERIOD OF 27 DAYS
NASA-TM-X-51257 N64-11798 03-28

IONIZATION OF UPPER ATMOSPHERE BY SHORT-WAVE SOLAR RADIATION
E-T-R-63-1 N64-12230 03-28

EFFECT OF IONOSPHERIC ABSORPTION OF SOLAR PARTICLE RADIATION ON ARCTIC HIGH FREQUENCY PROPAGATION
N64-12421 04-28

SOLAR WIND VELOCITY CORRELATION WITH GEOMAGNETIC, SOLAR AND COSMIC RAY ACTIVITY
NASA-CR-55151 N64-13184 04-28

3.2-MM SOLAR RADIATION DURING SOLAR ECLIPSE - LIMB SCANNING
AFCRL-63-900 N64-13721 05-28

COSMIC & SOLAR ELECTROMAGNETIC AND CORPUSCULAR RADIATION
NASA-CR-55438 N64-14868 06-28

PHYSICAL PROPERTIES OF SUN - OBSERVED PHENOMENA AND SOLAR RADIATION N64-15287 07-05

RADIATION HAZARD FROM SOLAR PARTICLE EVENTS
D2-90469 N64-15719 07-28

SOLAR ULTRAVIOLET RAY EFFECT ON OXYGEN MOLECULE DISSOCIATION IN POLAR UPPER ATMOSPHERE
NASA-TR-R-141 N64-16005 07-12

TRANSISTORIZED RADIOMETERS AND HIGH ALTITUDE EARTH AND SOLAR RADIATION MEASUREMENTS
AFCRL-63-911 N64-16661 08-15

DIURNAL VARIATION OF SOLAR ULTRARADIATION IN THERMOSPHERE N64-17003 09-12

SPECTRAL TRANSPARENCY OF ATMOSPHERE TO SOLAR RADIATION
FTD-MT-63-16/162 N64-18664 11-12

FORMULA FOR SOLAR RADIATION INTENSITY AND NEW CHARACTERISTIC OF TRANSPARENCY OF AIR
FTD-TT-63-178/162 N64-19211 11-12

ASTRONOMY - INVESTIGATION OF GALACTIC AND SOLAR

RADIATIONS N64-19261 11-01

DATA PROCESSING OF SOLAR RADIATION SPECTRAL RESPONSE DATA N64-19263 11-15

SOLAR RADIATION AND IONOSPHERE, ATMOSPHERIC ELECTRICITY, ATMOSPHERIC NUCLEAR EXPLOSIONS, AND METEOROLOGY OF UPPER ATMOSPHERE - BIBLIOGRAPHY
AID-P-64-16 N64-19425 12-12

TIROS III SATELLITE DATA ON TERRESTRIAL RADIATION AND REFLECTED AND SCATTERED SOLAR RADIATION
NASA-CR-56033 N64-20606 13-21

SPACE SCIENCES, SOLAR RADIATION, ATMOSPHERIC ABSORPTION & IONOSPHERIC STUDIES
SER. 5, ISSUE 25 N64-21383 14-12

SOLAR RADIATION MONITORING AND INFRARED SPECTROSCOPIC STUDY N64-21817 15-01

SATELLITE AND ROCKET STUDY OF D AND E LAYERS AND SOLAR RADIATION INTENSITY IN IONOSPHERE N64-22037 15-29

BIBLIOGRAPHY OF SOLAR RADIATION AND UPPER ATMOSPHERIC PHENOMENA
AID-P-64-32 N64-24099 16-12

CORPUSCULAR RADIATION OF SUN AND ZODIACAL LIGHT N64-24776 17-29

ACTINOMETRIC OBSERVATIONS OF RADIATIVE HEAT TRANSFER, SOLAR RADIATION, AND ATMOSPHERIC SCATTERING N64-24788 17-15

RELATION OF VEGETATION ALBEDO DIURNAL VARIATION TO SOLAR RADIATION SCATTERING N64-24792 17-21

RATIO OF MONOCHROMATIC RADIATION SCATTERING TO DIRECT SOLAR RADIATION FOR ULTRAVIOLET AND VISIBLE SPECTRUMS N64-24796 17-28

CALCULATION OF LIFETIME OF ICE IN NUCLEI OF COMETS IN SOLAR RADIATION FIELD N64-25065 17-05

SPACE SCIENCE - SOLAR RADIATION, FLAME REACTION KINETICS, STRATOSPHERIC PLANETARY OBSERVATORY, INFORMATION SYSTEMS, AND SPACE BIOLOGY N64-25186 17-28

OZONE ALTIMETER OF REENTRY VEHICLE FOR HEIGHT DETERMINATION BY MEASUREMENT OF INTENSITY OF SOLAR RADIATION
REPT.-6121-8728-RU-000 N64-25489 17-12

SIMULATION OF SOLAR RADIATION THROUGH KNOWLEDGE OF TOTAL ENERGY AND SPECTRAL DISTRIBUTION OF SOLAR RADIATION AT ZERO MASS N64-28202 20-28

POSSIBLE MICROVARIATION IN SOLAR HEAT RADIATION N64-28845 20-28

SOLAR EXTREME ULTRAVIOLET RADIATION
NASA-RP-288 N64-29416 21-28

TIME VARIATION IN SOLAR EXTREME ULTRAVIOLET RADIATION MEASURED BY OSO- I N64-30257 22-28

NASA PROGRAMS FOR SOLAR ACTIVITY AND RADIATION STUDIES N64-30338 22-29

ASTRONOMICAL STATION FOR OBSERVATIONS IN FAR INFRARED REGION OF SPECTRUM
NASA-TT-F-8953 N64-30846 22-15

SOLAR EXTREME ULTRAVIOLET RADIATION OBSERVATIONS BY OSO-I MONOCHROMATOR
NASA-RP-338 N64-31215 22-28

ERRORS IN PYRANOMETER MEASUREMENTS OF ATMOSPHERIC SOLAR RADIATION ABSORPTION
FTD-TT-62-1511/162 N64-31590 23-28

SCATTERING OF SOLAR RADIATION BY COMET OUTBURST PARTICLES
AFCRL-64-746 N64-31738 23-05

SOLAR RADIATION AT 3.2 MM DURING JULY 20, 1963 ECLIPSE N64-33153 24-23

OBSERVATIONS ON SOLAR AND COSMIC RADIATION INTENSITY, PARTICLES AND PLASMA LAYER DISTRIBUTION, AND MAGNETIC FIELD VARIATIONS FROM MARS I SPACECRAFT
FTD-TT-64-237/1&2&364 N64-33221 24-29

TABLES OF DAILY SOLAR RADIATION MEASURED AT UCCLE, BELGIUM N64-33257 24-28

SPECTRAL VARIATIONS IN SPECIFIC SOLAR FLARE PARTICLE EVENTS AND ASSOCIATED RADIATION DOSES FOR VARYING SHIELDING THICKNESSES
NASA-RP-355 N64-33890 24-28

SOLAR RADIO WAVE
GEOPHYSICAL DATA - ATMOSPHERICS, WHISTLERS, AND SOLAR RADIO EMISSIONS N64-12500 04-12

OBSERVATIONS, INTERPRETATIONS, AND ASSOCIATIONS OF SOLAR RADIO EMISSIONS - SOLAR RADIO ASTRONOMY
REPT.-64-4 N64-22234 15-05

OBSERVATIONS, INTERPRETATIONS, AND ASSOCIATIONS OF SOLAR RADIO EMISSION - SOLAR RADIO ASTRONOMY
REPT.-64-4 N64-22235 15-05

HIGH RESOLUTION STUDIES OF SOLAR RADIO EMISSION AT 11.4M WAVELENGTH
ERR-AN-233 N64-26509 18-28

ATMOSPHERICS - LIGHTNING, NOISE, VERY LOW FREQUENCY EMISSIONS & SOLAR RADIO MICROWAVE EMISSIONS N64-27180 19-12

SOLAR MICROWAVE RADIO EMISSION - ELEVEN-YEAR SPECTRUM VARIATION N64-27185 19-28

SOLAR RADIO BURST GENERATION - PROPAGATION MODES IN SOLAR PLASMA, RADIATION PROCESSES, AND PLASMA WAVES N64-30288 22-28

THEORETICAL INTERPRETATION OF TYPE III SOLAR RADIO BURST N64-30289 22-28

ELECTROMAGNETIC RADIATION FROM PLASMA OSCILLATIONS AND TYPE III SOLAR RADIO BURSTS N64-30292 22-28

TYPE II SOLAR RADIO BURSTS AND MAGNETIC FIELD IN CORONA N64-30293 22-28

SOLAR RADIO EMISSION FOR ANTENNA ALIGNMENT AND COMPUTER PROGRAM FOR SOLAR TRACKING ANGLES
EDL-M690 N64-32561 23-08

SOLAR REFLECTOR
BIOCHEMICAL FUEL CELLS, PLASMA PHYSICS - MHD AND THERMIONICS, THERMAL ENERGY STORAGE, THERMAL TRANSPORT, AND SOLAR REFLECTOR RESEARCH
NASA-CR-53557 N64-18304 10-23

RIGIDIZATION OF TEN-FOOT MIRROR IN VACUUM CHAMBER AND PHYSICAL PROPERTIES OF LIGHTWEIGHT FOAM FOR SOLAR REFLECTOR
GER-11494 N64-26661 18-06

MATHEMATICAL MODEL OF SOLAR REFLECTOR FOR DETERMINING INTENSITY DISTRIBUTION ON PLANE PERPENDICULAR TO OPTICAL AXIS FROM REFLECTOR SURFACE
REPT.-3193 N64-26795 18-06

IBM 7090 COMPUTER PROGRAM FOR ANALYSIS OF SOLAR REFLECTORS
EDR-3666 N64-26832 18-06

FABRICATION OF LIGHTWEIGHT SOLAR REFLECTOR-CONCENTRATORS
NASA-CR-58579 N64-29695 21-06

SOLAR REFLECTOR ANALYSIS - OPERATIVE COMPUTER PROGRAMS

EDR-3693 N64-30557 22-06

SOLAR REFLECTOR ANALYSIS, MATHEMATICS, AND ERROR MODEL SYNTHESIS FROM RAY TRACE DATA
EDR-3958 N64-31167 22-06

SOLAR REFLECTOR FOAMING TECHNOLOGY - FOAM RIGIDIZATION OF MIRRORS IN VACUUM CHAMBER
GER-11594 N64-32188 23-17

FOAM RIGIDIZING OF MIRROR MODELS FOR SOLAR REFLECTOR
GER-11333 N64-32193 23-17

SOLAR SIMULATION
SPECTROGRAPHIC MEASUREMENTS OF SOLAR SIMULATION SOURCES N64-28203 20-15

METHOD OF RAPID SCANNING OF SOLAR SIMULATION SOURCES N64-28204 20-10

CALIBRATION OF EPPLEY THERMOPILE IN ENERGY RANGES NEEDED FOR SOLAR SIMULATION N64-28205 20-15

SOLAR SIMULATOR
ADVANCED SOLAR SIMULATOR - SPACE ENVIRONMENT REPRODUCTION
NASA-CR-55206 N64-13918 05-10

CARBON ARC SOURCE FOR SOLAR SIMULATOR
AEDC-TDR-64-13 N64-14369 06-10

SPACE ENVIRONMENT AND SOLAR SIMULATOR - DESIGN SPECIFICATIONS AND CONSTRUCTION PROBLEMS
NASA-TN-D-1917 N64-16316 08-10

RADIATION SPECTRUM FROM VORTEX-STABILIZED ARC FOR SOLAR SIMULATOR
AEDC-TDR-64-165 N64-27443 19-28

SPACE CHAMBER SOLAR SIMULATOR
NASA-CR-59051 N64-32489 23-10

FILTER WHEEL SOLAR SIMULATOR N64-32740 24-06

RADIATION CHARACTERISTICS OF HIGH POWER LEVEL CARBON ARC FOR SOLAR SIMULATOR APPLICATION
AEDC-TDR-64-202 N64-33355 24-10

SOLAR SPECTRUM
ORBITING SOLAR OBSERVATORY I OBSERVATIONS OF SOLAR SPECTRUM BETWEEN 170 & 340 ANGSTROMS
NASA-TM-X-51258 N64-11799 03-32

HIGH RESOLUTION PHOTOGRAPHS OF EXTREME ULTRAVIOLET SOLAR SPECTRUM FROM AEROBEE-HI ROCKET
N64-16023 07-28

SPECTRUM OF SOLAR CORONA N64-19462 12-28

ATMOSPHERIC ABSORPTION OF INFRARED RADIATION IN SOLAR SPECTRUM AND ATMOSPHERIC COMPOSITION
CARDE-TR-475/64 N64-25481 17-29

VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE, SOLAR SPECTROMETRY, AND INTERFEROMETRIC INVESTIGATION OF CELESTIAL SPECTRA
AFCRL-64-569 N64-27081 19-12

SOLAR MICROWAVE RADIO EMISSION - ELEVEN-YEAR SPECTRUM VARIATION N64-27185 19-28

TEMPERATURE MEASUREMENTS OF BLACK BODY MOST CLOSELY FITTING SOLAR EXTRATERRESTRIAL SPECTRUM
NASA-TN-D-1845 N64-27661 19-28

INTENSITIES OF STRONG FRAUNHOFER LINES IN SOLAR SPECTRUM N64-31754 23-28

SPECTRAL VARIATIONS IN SPECIFIC SOLAR FLARE PARTICLE EVENTS AND ASSOCIATED RADIATION DOSES FOR VARYING SHIELDING THICKNESSES
NASA-RP-355 N64-33890 24-28

SOLAR SYSTEM
SA GALAXY
SATELLITE ORBIT INCLINATION AND ECCENTRICITY, AND OCCURRENCE OF NEAR-COMMENSURATE MEAN MOTIONS IN SOLAR SYSTEM
CRSR-128 N64-12963 04-29

COSMIC RAY HAZARDS IN SOLAR SYSTEM
AIAA PAPER-64-66 N64-14065 05-28

LEAST SQUARES METHOD OF ESTIMATING SOLAR SYSTEM CONSTANTS - ASTRONOMICAL UNIT
NASA-CR-53195 N64-17225 09-05

SOLAR SYSTEM FORMATION FROM INTERACTION BETWEEN GRAVITATIONAL & ELECTROMAGNETIC FORCES
N64-19331 12-05

PLANETARY ORIGINS AND STELLAR EVOLUTION - SOLAR SYSTEM ORIGIN N64-19454 12-05

ONE-WAY BALLISTIC TRAJECTORY TO MAJOR TARGETS AND POSITIONS WITHIN SOLAR SYSTEM
NASA-CR-53730 N64-19572 12-29

ANNOTATED BIBLIOGRAPHY OF BIBLIOGRAPHIES ON SOLAR SYSTEM SCIENCE
P-2859 N64-20358 13-28

HISTORY OF THEORIES ON ORIGIN OF SOLAR SYSTEM - ANGULAR MOMENTUM & EDDY DIFFUSION IN HYPOTHETICAL MODEL SOLAR NEBULA
AFCRL-64-167 N64-20391 13-29

HYPOTHESIS FOR FORMATION OF SOLAR SYSTEM
N64-21129 14-05

ASTRONOMY & PLANETS IN SOLAR SYSTEM
FTD-TT-62-7/1&2&3&4 N64-24489 17-05

CELESTIAL BODIES IN SOLAR SYSTEM
N64-24492 17-05

SUN & SOLAR SYSTEM N64-24493 17-05

SPACE TRAVEL BEYOND SOLAR SYSTEM
N64-24502 17-05

COSMOLOGICAL HYPOTHESES ON ORIGIN OF SOLAR SYSTEM
N64-24760 17-29

RELATIONSHIP BETWEEN DISTANCES AND MASSES IN SOLAR PLANETS OF SOLAR SYSTEM N64-24764 17-05

ORIGIN OF METEORITES DURING SOLAR SYSTEM FORMATION N64-24767 17-05

CHEMICAL COMPOSITION OF SUN, EARTH, AND METEORITES
N64-24768 17-29

FORMATION OF SOLAR SYSTEM THROUGH NUCLEOGENESIS - EARTH, SUN, AND METEORITE CHEMICAL COMPOSITION DIFFERENCES DUE TO COSMOLOGICAL DEVELOPMENT
N64-24769 17-29

LUNAR SURFACE AND ROLE OF FUSION AND IMPACTS IN FORMATION OF MOON - SOLAR SYSTEM DEVELOPMENT
N64-24770 17-29

COMET ACCUMULATION IN OUTER PARTS OF SOLAR SYSTEM
N64-24771 17-29

PROTOPLANETARY DUST CLOUD CONDENSATION AND SOLAR SYSTEM FORMATION N64-24773 17-29

SOLAR WIND
DESCRIPTION OF EXPLORER XIV/DELTA VEHICLE COMPLEX FOR OBSERVATION OF COSMIC RADIATION, SOLAR WIND, & SOLAR PARTICLE FLUX N64-11198 02-29

SHOCK WAVE FORMATION ON INTERACTION BETWEEN SOLAR WIND & GEOMAGNETIC FIELD - EFFECT OF WEAK INTERPLANETARY MAGNETIC FIELD
NASA-RP-98 N64-11227 02-28

SPACE PHYSICS - SOLAR WIND, INTERPLANETARY MAGNETIC FIELD & GEOCENTRIC MAGNETOSPHERE
NASA-CR-52759 N64-11296 02-23

MODEL OF EQUATORIAL SUMMER ATMOSPHERE FOR STUDY OF INTERACTION WITH SOLAR WIND - WEATHER DISTURBANCE
N64-11719 03-28

THICKNESS OF SHOCK WAVE IN SOLAR WIND, LIMITS OF

LARMOR RADIUS, AND POSSIBILITY OF SHOCK CAUSED BY MOON N64-11720 03-28

SOLAR WEATHER - SOLAR MAGNETIC FIELD, WIND, FLARES, ULTRAVIOLET, AND FLUID BETWEEN SUN & EARTH N64-11727 03-28

MAGNETIC FIELDS IN CORONA AND SOLAR WIND AS MEASURED BY MARINER II SPACE PROBE NASA-CR-52928 N64-12096 03-28

MARINER II SOLAR-WIND VELOCITY DATA AND ITS CORRELATION WITH COSMIC-RAY VARIATIONS AND SOLAR & GEOMAGNETIC ACTIVITY NASA-CR-53027 N64-13282 04-28

LUNAR ATMOSPHERIC MODELS - CONTRIBUTIONS FROM LUNAR SURFACE AND SOLAR WIND N64-13704 05-29

TERRESTRIAL MAGNETOSPHERIC INTERACTION WITH SOLAR WIND & SHOCK WAVES NASA-CR-55342 N64-14181 06-28

MAGNETIC STORM ENERGY FROM VISCOUS INTERACTION BETWEEN SOLAR WIND & EARTH MAGNETOSPHERE NASA-CR-55341 N64-14287 06-28

SOLAR WIND BOMBARDMENT OF LUNAR SURFACE - SIMULATION WITH HYDROGEN ION BEAM N64-15175 07-28

COUPLING BETWEEN SOLAR WIND AND EXOSPHERE NASA-CR-55683 N64-15531 07-28

HYDROGEN ION BOMBARDMENT OF BASALT POWDERS IN INVESTIGATING EFFECT OF SOLAR WIND ON LUNAR SURFACE NASA-CR-55720 N64-15891 07-29

FLOW CHARACTERISTICS OF SOLAR WIND IN MAGNETOSPHERIC CAVITY AVCO-EVERETT RES. REPT.-170 N64-15938 07-12

FILAMENTARY STRUCTURE OF SOLAR CORONA AND EFFECT ON DYNAMICS OF SOLAR WIND N64-19301 12-28

SOLAR WIND, MAGNETIC FIELDS, COSMIC RAYS, AND DISTRIBUTION OF INTERPLANETARY MATTER NASA-CR-53732 N64-19571 12-29

VISCOUS INTERACTION BETWEEN SOLAR WIND AND EARTH MAGNETOSPHERE N64-19960 12-12

NORTH-SOUTH ASYMMETRY IN SOLAR WIND AND SUNSPOTS FROM GEOMAGNETIC FIELD ACTIVITY PUBL.-8 N64-21228 14-28

RING CURRENT EFFECT ON BOUNDARY OF GEOMAGNETIC FIELD IN SOLAR WIND NASA-TR-R-177 N64-21259 14-28

BOUNDARY AND DISTORTION OF GEOMAGNETIC FIELD IN STEADY SOLAR WIND NASA-TR-R-178 N64-21260 14-28

EFFECT OF EXTERNAL PRESSURE AND OBLIQUE INCIDENCE OF SOLAR WIND ON TERMINAL SHAPE OF GEOMAGNETIC FIELD NASA-TR-R-181 N64-21261 14-28

COSMIC RAY VARIATIONS DUE TO ASYMMETRIC SOLAR WIND N64-24441 17-28

SHAPE OF GEOMAGNETIC FIELD BOUNDARY IN SOLAR WIND NASA-RP-214 N64-25004 17-28

GEOPHYSICAL PHENOMENA RELATED TO SOLAR WIND AND DISTORTION OF GEOMAGNETIC FIELD NASA-RP-219 N64-25012 17-12

MATHEMATICAL MODEL OF NEUTRAL POINT OF IDEAL MAGNETOSPHERE - INTERACTION OF GEOMAGNETIC FIELD WITH SOLAR WIND NASA-RP-274 N64-27353 19-12

STABILITY OF INTERFACE BETWEEN SOLAR WIND AND MAGNETOSPHERE USING HYDROMAGNETIC EQUATIONS NASA-RP-297 N64-28232 20-28

MARINER II MEASUREMENTS OF SOLAR PLASMA STREAMS FROM PLAGE REGIONS AND FROM FLARES N64-30280 22-28

ROLE OF FLARE-LIKE NONSTATIONARY PROCESSES IN ORIGIN OF SOLAR WIND FROM ANALYSIS OF GEOMAGNETIC DISTURBANCES N64-30283 22-28

INTERACTION OF SOLAR WIND WITH COMETS N64-31090 22-28

SOLAR WINDS AND CORPUSCULAR RADIATION NASA-TT-F-9059 N64-31339 22-28

MEASUREMENTS OF MAGNETIC FIELD IN GEOMAGNETIC CAVITY AND INTERACTION REGION BETWEEN SOLAR WIND MAGNETOSPHERE BY PIONEER V SPACE PROBE NASA-CR-58961 N64-33040 24-28

SOLAR X-RAY

SOLAR X-RAYS - SLOW VARIATIONS AND TRANSIENT EVENTS - CORRELATION WITH OTHER EVENTS NASA-TM-X-51250 N64-11796 03-28

SOLAR X-RAY OBSERVATIONS BY INJUN I SATELLITE SUI-64-27 N64-27860 19-32

HIGH ENERGY X-RAY BURSTS FROM SOLAR FLARES N64-30267 22-28

COMPARISON OF SOLAR X-RAYS WITH MICROWAVE RADIATION USING ORBITING SOLAR OBSERVATORY /OSO/ DATA N64-30268 22-28

HIGH ENERGY X-RAY BURSTS OBSERVED BY ORBITING SOLAR OBSERVATORY I N64-30269 22-28

X-RAY LINE SPECTRUM, SPECTROHELIOGRAPH RESULTS, & FAN BEAM SCANS OF SOLAR X-RAY EMISSION N64-30270 22-28

ASSOCIATION OF BREMSSTRAHLUNG X-RAYS WITH EXPLOSIVE SOLAR FLARES N64-30276 22-28

GENERATION MECHANISMS OF RADIO AND X-RAY BURSTS FROM SOLAR FLARES - BREMSSTRAHLUNG FROM SOLAR PLASMA, GYRO AND SYNCHROTRON RADIATION FROM ELECTRONS, AND PLASMA RADIATION N64-30287 22-28

RELATIONS OF X-RAY RADIATION, PARTICLE EMISSION, AND RADIO EMISSION DURING SOLAR FLARES N64-30290 22-28

OSO SOLAR X-RAY DATA FROM SLOW VARIATIONS & FLARES NASA-RP-346 N64-31722 23-28

SOLDER

CF FASTENER

PROPERTIES OF ALLOYS BRAZED WITH HIGH TEMPERATURE SOLDERS JPRS-21927 N64-10354 01-17

SOLDER AND PIANO WIRE TOOLS FOR CHAMFERING SMALL HOLES N64-33614 24-17

SOLDERED JOINT

S METAL JOINT

SOLDERING

CF BONDING

CF BRAZING

FLUXES AND THEIR USE IN SOLDERING ALUMINUM - BIBLIOGRAPHY TID-3577 N64-18458 10-18

GAS-FLAME BRAZING OR SOLDERING OF METALS - MATERIALS AND TECHNIQUES JPRS-24345 N64-18977 11-17

SOLDERING GAS TURBINE BLADES FTD-TT-64-142/1&2&4 N64-25446 17-15

AUTOMATIC SOLDERING MACHINE FOR SEALING COMBUSTIBLE CYLINDRICAL ELEMENTS N64-26087 18-17

OPTICAL SOLDERING AND MICROELECTRONIC INTERCONNECTIONS - AUTOMATION ABILITY AND HIGH

DENSITY SYSTEMS N64-31500 23-17

SILVER, RHENIUM, AND RHODIUM GALVANIC COVERINGS FOR PROTECTING TITANIUM ALLOY FROM OXIDATION AND SOLDER COMPONENT INTERACTIONS DURING SOLDERING
FTD-MT-64-48 N64-31883 23-18

SOLDERING FOR HIGH RELIABILITY ELECTRICAL CONNECTIONS IN SPACECRAFTS
NASA-TM-X-54760 N64-33034 24-17

SOLENOID
CF COIL
APPROXIMATION OF IDEAL DIPOLE WITH A SOLENOID - DIPOLE FIELD PLUS ERROR TERMS N64-10667 01-09

USING ANISOTROPIC EFFECTS IN HELICALLY WOUND SUPERCONDUCTING SOLENOIDS TO INCREASE MAGNETIC FIELD
NASA-TN-D-2083 N64-11194 02-23

PERFORMANCE PREDICTION FOR SUPERCONDUCTING COIL IN SOLENOIDS
LNF-63/67 N64-14448 06-23

SUPERCONDUCTING NIOBIUM-TIN SOLENOID
REPT.-63-RL-3397/M/ N64-14917 06-23

CURRENT DENSITY DISTRIBUTION IN AXIAL & RADIAL COMPONENTS OF THICK, FINITE-LENGTH SOLENOID MAGNETIC FIELD
NASA-TR-R-170 N64-15331 07-23

SOLENOID CONSTRUCTION WITH AXIALLY SYMMETRIC MAGNETIC FIELD FOR STUDY OF FOCUSING OF ELECTRON BEAM N64-16132 08-23

AZIMUTHAL COMPONENT OF HELICAL SOLENOID MAGNETIC FIELD
NASA-TN-D-2372 N64-25053 17-23

SOLENOID WITH SINUSOIDAL WINDINGS FOR IOFFE FIELD APPLIED TO STATIONARY PLASMA DEVICE
IPPJ-26 N64-26697 18-24

CALCULATING MAGNETIC FIELD COMPONENTS IN OR AROUND THICK FINITE SOLENOID
NASA-RP-287 N64-27760 19-23

SUPERPOSITION CALCULATION FOR FIELD OF THICK CIRCULAR SOLENOID FROM TABULATED VALUES FOR SEMI-INFINITE SOLENOIDS
NASA-TN-D-2494 N64-30103 21-23

UNIFORM MAGNETIC FIELD SYNTHESIS ALONG AXIS OF COAXIAL COIL & SOLENOID SYSTEM
GSP/PHYS-64-10 N64-33884 24-23

CURRENT DEGRADATION PHENOMENON IN SUPERCONDUCTING SOLENOIDS
NASA-CR-59369 N64-33921 24-25

SOLID LUBRICANT
EVAPORATION RATES OF ORGANIC LIQUID AND SOLID LUBRICANTS IN VACUUM
NASA-TN-D-2081 N64-11992 03-19

SOLID-FILM LUBRICATED BEARINGS
PWA-2288 N64-14026 05-17

INORGANIC SOLIDS FOR HIGH TEMPERATURE LUBRICANTS
JPRS-23893 N64-18091 10-01

FRICTION COEFFICIENTS OF SOLID FILM LUBRICANTS FOR SPACE ENVIRONMENT
NASA-CR-53035 N64-19596 12-17

DRY RESIN BONDED SOLID FILM LUBRICANTS FOR WING PIVOTS
FTDM-3113 N64-20051 13-17

REACTOR RADIATION EFFECTS ON CERAMIC-BONDED SOLID-FILM LUBRICANT
NHRF-63-6T N64-21563 15-17

FUSED FLUORIDE COATINGS AS SOLID LUBRICANTS IN LIQUID SODIUM, HYDROGEN, VACUUM, AND AIR
NASA-TN-D-2348 N64-26414 18-17

SOLID LUBRICANT FOR BEARINGS IN HIGH VACUUM ENVIRONMENT
NASA-CR-58039 N64-27310 19-17

POTASSIUM SILICATE BINDER FOR SOLID LUBRICANT FILMS
NASA-CR-58204 N64-27900 20-17

NUCLEAR RADIATION EFFECTS ON CERAMIC-BONDED, RESIN-BONDED, AND METAL-MATRIX-BONDED SOLID FILM LUBRICANTS
NARF-63-11T N64-29801 21-17

PRINCIPLES OF LUBRICATION & PROPERTIES OF SOLID LUBRICANTS N64-29890 21-17

WEAR LIFE AND CORROSION PROTECTIVE ABILITY OF SOLID FILM LUBRICANT SUBSTRATES
RIA-64-1377 N64-31310 22-17

SOLID PHASE
ORTHO- AND PARA-TRITIUM IN HOMOGENEOUS GAS AND SOLID PHASES N64-10136 10-23

SOLID PROPELLANT
SA DOUBLE BASE PROPELLANT
BALLISTIC DATA FOR SERIES OF COMPOSITE SOLID PROPELLANTS N64-11250 02-20

MEASUREMENT OF TEMPERATURE PROFILES OF BURNING SOLID PROPELLANTS BY MICROTHERMOCOUPLES
AERONAUTICAL ENG. REPT.-664 N64-11763 03-26

X-RAY TESTING OF STRUCTURAL STRAIN ON SOLID PROPELLANT GRAINS
AD-423571 N64-12177 03-26

ALKYL NITRATE NITRATION FOR PREPARATION OF ALPHA-MONONITRO-KETONES - SOLID SMOKELESS PROPELLANT
RR-25 N64-12868 04-07

CRYOGENIC STRETCH-FORMING OF SOLID PROPELLANT ROCKET MOTOR CASES
AD-403459 N64-12985 04-26

VISCOELASTIC TESTING OF SOLID POLYURETHANE PROPELLANTS AND PROPELLANT BINDERS
AD-424696 N64-13107 04-26

STRESS-STRAIN DISTRIBUTION IN SOLID PROPELLANT BONDED TO RIGID PLATE AND VISCOELASTIC STRESS ANALYSIS WITH LAPLACE TRANSFORMS
P-63-13 N64-13254 04-33

STRESSES, STRAINS, AND DISPLACEMENTS IN MULTIAXIAL TEST OF CIRCULAR DISK OF SOLID PROPELLANT BONDED TO RIGID PLATES N64-13255 04-24

DEGRADATION OF POLYURETHANE SOLID PROPELLANT UNDER IRRADIATION
NASA-CR-53012 N64-13283 04-26

SOLID PROPELLANT COMBUSTION MECHANISMS - SQUID PROJECT N64-13490 05-24

CHARACTERIZATION OF SOLID ROCKET PROPELLANTS BY DIFFERENTIAL THERMAL ANALYSIS
RK-TR-63-21 N64-13933 05-26

DYNAMIC RESPONSE AND FAILURE MECHANISMS IN COMPOSITE SOLID PROPELLANTS
LPC-618-P-11 N64-14820 06-26

ALUMINUM OXIDE SIZE DISTRIBUTIONS FROM HIGH PRESSURE SOLID PROPELLANT COMBUSTION
AIAA PAPER-64-115 N64-14854 06-26

MECHANICAL RESPONSE AND FAILURE IN SOLID PROPELLANT STRUCTURAL CHARACTERISTICS
LPC-618-P-10 N64-15691 07-26

CALIBRATION OF SHOCK SENSITIVITY TEST WITH PENTOLITE SOLID PROPELLANT
NOLTR-63-19 N64-17375 09-26

FORCE VIBRATIONS OF CASE-BONDED SOLID PROPELLANT GRAINS
AD-434192 N64-18373 10-33

VISCOELASTICITY OF SOLID PROPELLANTS AND PROPELLANT BINDERS - DYNAMIC SHEAR, SPECIFIC VOLUME, AND DEFORMATION & STRAIN RATES
AD-434853 N64-18618 11-26

THERMODYNAMIC PROPERTIES OF ROCKET SOLID PROPULSION SYSTEMS
CPIA-44, VOL. 1 N64-18801 11-13

APPARATUS FOR HEAT OF FORMATION MEASUREMENTS OF BORON COMPOUNDS - SOLID PROPELLANTS
N64-18818 11-13

CHEMICAL REACTION MECHANISMS OF SOLID PROPELLANT FLAMES - SQUID PROJECT N64-18864 11-26

EFFECT OF FILLER ON VISCOELASTIC PROPERTIES OF ELASTOMERS AND COMPOSITE SOLID ROCKET PROPELLANTS
RK-TR-64-2 N64-18887 11-26

METHOD FOR DETERMINING THERMAL DIFFUSIVITY OF SOLID PROPELLANTS
P-63-27 N64-18905 11-26

VISCOELASTIC PROPERTIES OF SOLID PROPELLANTS AND PROPELLANT BINDERS - SHEAR, SPECIFIC VOLUME, AND TENSILITY
REPT.-9 N64-19142 11-26

DYNAMIC RESPONSE AND FAILURE MECHANISMS IN SOLID PROPELLANTS
LPC-618-F N64-19651 12-26

CHEMISTRY, PHYSICS, AND THERMODYNAMICS OF ROCKET NOZZLE FLOW, MATERIAL STRESS, & SOLID PROPELLANTS
P-64-6 N64-20307 13-26

MECHANICAL PROPERTIES OF POLYBUTADIENE AND POLYURETHANE SOLID PROPELLANTS
REPT.-6 N64-20853 14-26

MECHANICAL PROPERTIES OF INERT SOLID FUEL PROPELLANT UNDER COMBINED STATES OF STRESS AT ROOM TEMPERATURE
ABL/X-114 N64-21586 15-26

DIGITAL COMPUTER PROGRAMS FOR CALCULATING BEHAVIOR OF MATERIALS IN SOLID PROPELLANT ROCKET EXHAUST ENVIRONMENT
RTD-TDR-64-43 N64-21596 15-27

TOXICITY HAZARDS IN SOLID PROPELLANT OPERATION
ARS PAPER-2766-63 N64-22240 15-16

THERMODYNAMIC CALCULATIONS FOR LIQUID OXIDIZER AND SOLID FUEL COMBINATIONS IN HYBRID ROCKETS
FA-R-1715 N64-22274 15-27

LIQUID ROCKET SIMULATION OF SOLID PROPELLANT ROCKET EXHAUST CHARACTERISTICS
PA-TR-3165 N64-22380 15-27

SOLID PROPELLANT DYNAMIC PROPERTIES AND EFFECT ON VIBRATION RESPONSE OF MODEL SOLID PROPELLANT STRUCTURES N64-23160 16-26

THERMAL RADIATION EFFECTS ON ACOUSTIC RESPONSE OF SOLID PROPELLANTS
TG-335-18 N64-23280 16-26

MECHANISM OF ENCAPSULATION AND PERMEABILITY OF POLYMERS, SOLID PROPELLANTS, AND CHEMICAL COMPOUNDS
AD-601772 N64-24849 17-07

DYNAMIC MECHANICAL PROPERTIES OF POLYBUTADIENE ACRYLIC ACID COPOLYMER SOLID PROPELLANT
QTSR-1 N64-25476 17-26

CONTINUOUS MEASUREMENT OF SOLID ROCKET PROPELLANT BURNING RATES
JAC-369 N64-25582 17-26

THERMAL RADIATION OF FLAME WITH CONDENSED MAGNESIUM OXIDE PARTICLES IN REFERENCE TO SOLID ROCKET PROPELLANTS AND EXPLOSIVES
N64-26340 18-26

X-RAY AND REFLECTANCE REFRACTOMETER AND OTHER INSTRUMENTS USED IN PROPELLANT PROCESSING FOR POLARIS PROPULSION SYSTEM
REPT.-0178-07M-10 N64-26642 18-26

FORM FUNCTIONS FOR DUAL COMPOSITION INCREMENTS OF PROPELLANT GRAINS
R-1692 N64-26865 18-26

DYNAMIC SHEAR AND COMPRESSIBLE PROPERTIES OF SOLID PROPELLANTS AND PROPELLANT BINDERS
REPT.-11 N64-27548 19-26

MECHANICAL PROPERTIES OF SOLID PROPELLANTS
REPT.-3 N64-27735 19-26

SOLID PROPELLANT ROCKET EXHAUST EFFECTS ON LAUNCH FACILITIES
NASA-CR-58074 N64-27877 20-26

EFFECTS OF PARTICLE SIZE AND NONSTOICHIOMETRIC COMPOSITION ON BURNING RATES OF COMPOSITE SOLID PROPELLANTS N64-28193 20-26

ARC IGNITION TECHNIQUES FOR SOLID PROPELLANTS
RPL-TDR-64-116 N64-28236 20-26

SOLID PROPELLANT COMBUSTION INSTABILITY AND DEPENDENCE ON PROPELLANT COMBUSTION CHARACTERISTICS
AD-442392 N64-28646 20-26

SERVO SYSTEM FOR CONTINUOUS MEASUREMENT OF BURNING RATE OF SOLID PROPELLANT
JPC-374 N64-29841 21-26

ASSEMBLY OF BREADBOARD OPTICAL EQUIPMENT FOR SPECTROGRAPHIC DETERMINATION OF COMBUSTION PRODUCTS AND TEMPERATURE IN SOLID PROPELLANT COMBUSTION ZONES
PR-6 N64-31693 23-26

TOTAL IMPULSE MEASURING SYSTEM FOR SOLID PROPELLANT ROCKET ENGINE - MATHEMATICAL ANALYSIS
R-5162 N64-31825 23-15

TOTAL IMPULSE MEASURING SYSTEM FOR SOLID PROPELLANT ROCKET ENGINE - SOURCE INSPECTIONS AND ALIGNMENT MEASUREMENTS
R-5602 N64-31975 23-15

SOLID PROPELLANT ROCKET NOZZLE TESTING - SIMILITUDE OBSERVATIONS N64-32693 24-17

MATERIALS AND COOLANT SYSTEMS FOR SOLID PROPELLANT ROCKET NOZZLES N64-32695 24-13

METHOD OF CONFORMAL MAPPING AND DETERMINATION OF STRESSES IN SOLID PROPELLANT ROCKET GRAINS
S-46 N64-32958 24-26

MECHANICAL PROPERTIES OF SIMULATED SOLID PROPELLANTS UNDER HIGH STRAIN RATE AND LOW TEMPERATURE ENVIRONMENT
MRL-ONR-3 N64-33273 24-26

UTILIZATION OF ACOUSTICAL PROPERTIES OF SOLID PROPELLANTS TO DAMP OUT ACOUSTIC WAVES IN ROCKET COMBUSTION SYSTEMS
FTCE/41/3/64 N64-33896 24-26

SOLID PROPELLANT IGNITION
IGNITERS AND IGNITION PROCESS OF COMPOSITE SOLID PROPELLANTS IN SMALL ROCKET MOTOR
AERONAUTICAL ENG. REPT.-662 N64-13260 04-26

SOLID PROPELLANT IGNITION ANALYSIS - ENERGY OUTPUT TO MOTOR IGNITION
TM-235-SRP N64-14441 06-26

TEMPERATURE PROFILES IN PREHEAT ZONE & GASEOUS COMBUSTION ZONE OF BURNING SOLID PROPELLANT
AIAA PAPER-64-106 N64-14547 06-26

INFLUENCE OF GAS COMPOSITION, PRESSURE, AND TEMPERATURE ON SOLID PROPELLANT IGNITION
AIAA PAPER-64-118 N64-14548 06-26

GAS PHASE REACTIONS ASSOCIATED WITH COMBUSTION OF COMPOSITE SOLID PROPELLANTS - APPARENT FLAME

STRENGTH
AD-428627 N64-14794 06-26

ALUMINUM OXIDE SIZE DISTRIBUTIONS FROM HIGH PRESSURE SOLID PROPELLANT COMBUSTION
AIAA PAPER-64-115 N64-14854 06-26

IGNITION PROCESS OF SOLID PROPELLANTS IN SMALL ROCKET ENGINES
AIAA PAPER-64-153 N64-14856 06-26

IGNITION OF REACTION FIELD ADJACENT TO SURFACE OF SOLID PROPELLANT
AERONAUTICAL ENG. REPT.-674 N64-15357 07-26

SPONTANEOUS REIGNITION OF SOLID PROPELLANTS
NASA-TN-D-2167 N64-17156 09-26

IGNITION AND IGNITION PROPAGATION OF SOLID PROPELLANTS IN FLOW ENVIRONMENT
AIAA PAPER-64-157 N64-17534 09-26

SOLID PROPELLANT IGNITION CHARACTERISTICS IN ROCKET ENGINES
NOLTR-64-107 N64-31048 22-26

SOLID PROPELLANT ROCKET ENGINE
SA ATHENA ROCKET
USE OF PYROLYTIC GRAPHITE IN UNCOOLED NOZZLES OF SOLID PROPELLANT ROCKET ENGINES
AD-401115 N64-10865 02-07

COMBUSTION INSTABILITY IN SOLID PROPELLANT MOTORS BY STRONG COMPRESSION WAVE FLOW
CARDE-TM-660/63 N64-11204 02-26

POLYMERS SUITABLE FOR CASE INSULATION IN END-BURNING SOLID PROPELLANT ROCKET MOTORS
AD-421808 N64-12359 03-19

DIGITAL COMPUTER SIMULATION OF PERFORMANCE OF SOLID PROPELLANT ROCKET MOTORS
FA-R-1694 N64-12836 04-20

PHYSICAL & MECHANICAL PROPERTIES OF ALLOYED HIGH-STRENGTH STEELS FOR SOLID PROPELLANT ROCKET MOTOR CASES
AD-424490 N64-12934 04-18

CHEMICAL KINETIC BEHAVIOR OF GAS-PHASE INDUCTION ZONE & EXPLOSION ZONE IN SOLID PROPELLANT ROCKET MOTORS
FTCE/18/10/63 N64-13205 04-26

CRYOGENIC STRETCH-FORMING OF SOLID PROPELLANT ROCKET MOTOR CASES
AD-420080 N64-14042 05-17

SOLID PROPELLANT ROCKET NOZZLE INTERNAL FLOW ENVIRONMENT
RTD-TDR-63-1075 N64-14140 05-18

COMPUTER PROGRAM FOR ANALYZING BEHAVIOR OF MATERIALS UNDER EXPOSURE TO SOLID PROPELLANT ROCKET NOZZLE ENVIRONMENT
RTD-TDR-63-1076 N64-14686 06-19

IGNITION PROCESS OF SOLID PROPELLANTS IN SMALL ROCKET ENGINES
AIAA PAPER-64-153 N64-14856 06-26

COOLING SOLID PROPELLANT MOTOR NOZZLE WITH LIQUID LITHIUM
RT-TR-63-13 N64-15065 07-27

ALLOYS FOR FUTURE SOLID PROPELLANT ROCKET MOTOR CASES
DMIC-MEMO-184 N64-15764 07-27

CRYOGENIC STRETCH-FORMING OF SOLID PROPELLANT ROCKET MOTOR CASES
AD-430537 N64-16475 08-17

COMBUSTION INSTABILITY OF SOLID AND LIQUID PROPELLANT ROCKET ENGINES N64-16559 08-26

SOLID PROPELLANT ROCKET VEHICLES N64-17020 09-32

RADIOMETER AND SLUG-TYPE CALORIMETER IN SOLID PROPELLANT ROCKET MOTOR
ABL/Z-60 N64-17333 09-13

AEROSPACE GROUND EQUIPMENT FOR LARGE SOLID PROPELLANT ROCKET ENGINES - TRANSPORTATION, HANDLING, TEST, AND ASSEMBLY TECHNIQUES
RTD-TDR-63-1025, VOL. I N64-17646 09-10

SOLID PROPELLANT ROCKET ENGINE NOZZLE ENVIRONMENT
U-2543 N64-18256 10-27

LIQUID & SOLID PROPELLANT ROCKET ENGINES - OPERATION, CHARACTERISTICS, CLASSIFICATION, AND DEVELOPMENT FOR MILITARY USE
FTD-MT-63-44/162 N64-18671 11-27

BREATHING VIBRATIONS OF THIN WALLED SHELLS APPLIED TO SOLID PROPELLANT ROCKETS N64-19155 11-33

COOLED AND UNCOOLED ROCKET NOZZLE, FOR SOLID PROPELLANT ROCKET MOTORS
RPL-TDR-64-8 N64-19411 12-27

EMBEDDING ACCELEROMETERS IN SOLID PROPELLANT ROCKET ENGINES N64-20239 13-27

HIGH STRENGTH LIGHTWEIGHT TITANIUM ALLOY PRESSURE VESSEL FOR SOLID FUEL ROCKET MOTOR CASES
WAL-TR-766.2/1-13 N64-20383 13-33

ALUMINUM AND ITS OXIDES AS SOURCES OR MODERATORS OF ELECTRONS IN SOLID PROPELLANT ROCKET EXHAUST
QSR-6 N64-21797 15-24

ULTRAHIGH STRENGTH NICKEL MARAGING STEEL SOLID PROPELLANT ROCKET MOTOR CASES
WAD-R-401-4 N64-22502 15-34

TOUGHNESS OF CHROMIUM STEEL SHEET FOR USE IN HIGHLY STRESSED COMPONENTS AS SOLID PROPELLANT ROCKET MOTOR CASTINGS
RK-TR-64-7 N64-24013 16-18

HYDROBURST TESTS OF SOLID PROPELLANT ROCKET MOTOR CASE OF MARAGING STEEL WITH WELDED JOINTS N64-24357 17-17

REFRACTORY COMPOSITES FOR SOLID PROPELLANT ROCKET MOTOR APPLICATION N64-25412 17-19

THEORY & DESIGN OF THERMAL ROCKET ENGINES USING LIQUID & SOLID PROPELLANTS
FTD-TT-63-454/162 N64-25453 17-27

TOUGHNESS CHARACTERISTICS OF AIR & VACUUM MELT MATERIAL FOR SOLID PROPELLANT MOTOR CASES
RK-TR-64-11 N64-26255 18-18

AXIAL COMBUSTION INSTABILITY STUDY FOR SOLID PROPELLANT ROCKET MOTOR DESIGN
CARDE-TN-1620/64 N64-26632 18-26

ANALOG STUDY OF ROTATING-SOLID-ROCKET CONTROL SYSTEM AND ITS APPLICATION TO ATTITUDE CONTROL OF SPACE-VEHICLE UPPER STAGES
NASA-TN-D-2366 N64-26759 18-06

COMBUSTION INSTABILITY IN SOLID PROPELLANT ROCKET ENGINE - PULSE TECHNIQUE
CARDE-TR-487/64 N64-27743 19-26

PROPERTIES OF HIGH TEMPERATURE GASES AND FLUIDS, COMBUSTION AND PROPULSION PROCESSES, AND COMBUSTION STUDIES IN SOLID AND LIQUID PROPELLANT ROCKET ENGINES N64-28176 20-11

NONDESTRUCTIVE TESTING OF SOLID PROPELLANT ROCKET ENGINES N64-28191 20-27

COMBUSTION INSTABILITY IN SOLID PROPELLANT ROCKET ENGINES N64-28192 20-26

SOLID PROPELLANT ROCKET COMBUSTION INSTABILITY MEASURED BY ACCELEROMETER, OSCILLOSCOPE AND OSCILLOGRAPH N64-28595 20-26

NONLINEAR AXIAL COMBUSTION INSTABILITY IN SOLID PROPELLANT ROCKET MOTOR

CARDE-TR-474/64 N64-28787 20-26

LIQUID LITHIUM FOR COOLING SOLID PROPELLANT ROCKET NOZZLES
A-P-FR-5601 N64-29752 21-13

CALCULATING INSIDE WALL SURFACE TRANSIENT TEMPERATURES FOR SOLID PROPELLANT ROCKET NOZZLES
ABL/Z-73 N64-29896 21-13

OPTIMIZATION OF SOLID ROCKET PROPULSION SYSTEMS AND THREE-DIMENSIONAL GRAIN DESIGNS
CPIA-PUBL-35 N64-30563 22-27

LITHIUM AS LIQUID METAL COOLANT FOR SOLID PROPELLANT ROCKET NOZZLE
A-P-FR-5601, VOL.2 N64-30632 22-13

FILM PROTECTED CONVECTIVELY COOLED NOZZLE FOR ADVANCED SOLID ROCKET
RPL-TDR-64-124 N64-30965 22-27

ULTRAHIGH STRENGTH CASES FOR SOLID PROPELLANT ROCKET ENGINES OF MARAGING STEEL
NAD-R-407F N64-30969 22-17

FEASIBILITY OF PYROLYTIC GRAPHITE COATINGS FOR UNCOOLED SOLID PROPELLANT ROCKET NOZZLES
RPL-TDR-64-129 N64-30974 22-17

TOTAL THRUST MEASURING SYSTEM FOR SOLID PROPELLANT ROCKET ENGINE
R-5638 N64-30987 22-10

SOLID PROPELLANT IGNITION CHARACTERISTICS IN ROCKET ENGINES
NOLTR-64-107 N64-31048 22-26

TUNGSTEN NOZZLE INSERT FOR SOLID PROPELLANT ROCKET ENGINE
RTD-TR-7-797-A/I/ N64-31065 22-17

LATERAL FORCE EXPERIMENT STUDIES ON THRUST CONTROL OF SOLID FUEL PROPULSION ROCKETS
NASA-TT-F-9046 N64-31563 23-27

EXPLOSION SENSITIVITY OF SOLID PROPELLANT ROCKET ENGINES
NOLTR-64-148 N64-31675 23-26

TOTAL IMPULSE MEASURING SYSTEM FOR SOLID PROPELLANT ROCKET ENGINE - MATHEMATICAL ANALYSIS
R-5162 N64-31825 23-15

TOTAL IMPULSE MEASURING SYSTEM FOR SOLID PROPELLANT ROCKET ENGINE
RPL-TDR-64-111 N64-31826 23-15

TENSILE, AGING RESPONSE, AND FRACTURE PROPERTIES OF 18 PERCENT NICKEL MARAGING STEEL FOR LARGE DIAMETER SOLID PROPELLANT ROCKET ENGINE
ML-TDR-64-115 N64-31895 23-18

TOTAL IMPULSE MEASURING SYSTEM FOR SOLID PROPELLANT ROCKET ENGINE - SOURCE INSPECTIONS AND ALIGNMENT MEASUREMENTS
R-5602 N64-31975 23-15

STRUCTURAL ANALYSIS PROCEDURES FOR SOLID PROPELLANT ROCKET ENGINES, AND MATERIAL BEHAVIOR OF POLYMERIC AND COMPOSITE SYSTEMS
NATSCIT-PS-64-1 N64-33324 24-26

PROBLEMS ASSOCIATED WITH RESTART OF NOZZLES FOR SOLID PROPELLANT ROCKET ENGINES - THERMAL, STRUCTURAL, AND CORROSION ANALYSIS
U-2794 N64-33976 24-27

SOLID SOLUTION
CHANGES IN MODULUS OF ELASTICITY AND TEMPERATURE IN FERROMAGNETIC SOLID SOLUTIONS ON NICKEL BASE ALLOY DURING HEAT TREATMENT N64-11145 02-18

ELECTROCHEMICAL STUDY OF IRON AND NICKEL IN SOLID SOLUTION IN POTASSIUM IODIDE
TDR-169/3240-21/TR-1 N64-13762 05-07

OXYGEN TO METAL RATIO IN SOLID SOLUTIONS OF URANIUM AND PLUTONIUM DIOXIDES
GEAP-4271 N64-16125 08-07

PHYSICAL METALLURGY OF SOLID SOLUTIONS, ALLOYS, AND CRYSTALS
FTD-TT-63-510/1&2&4 N64-16602 08-18

TWO-PHASE DECOMPOSITION OF SOLID SOLUTIONS N64-16605 08-25

DIFFUSION IN NICKEL ALLOY SOLID SOLUTIONS N64-17038 09-25

BEHAVIOR OF NICKEL AND SOLID SOLUTIONS OF TITANIUM IN NICKEL AT HIGH TEMPERATURES AND LOW STRAIN RATES N64-17048 09-18

THEORY OF DILUTE SOLID SOLUTION - X-RAY SPECTROGRAPHIC STUDY OF CHROMIUM N64-17053 09-25

ELECTRODISPLACEMENT IN METALLIC SOLID SOLUTIONS N64-17056 09-25

PREPARATION AND PHYSICAL PROPERTIES OF LEAD TELLURIDE AND LEAD TELLURIDE-TIN TELLURIDE SOLID SOLUTION
AD-431558 N64-21475 14-25

HEATS OF MIXING POTASSIUM CHLORIDE-POTASSIUM BROMIDE SOLID SOLUTIONS
AROD-2477-1 N64-24938 17-07

PRODUCTION AND DIELECTRIC PROPERTIES OF SINGLE CRYSTALS OF SOLID SOLUTION OF LEAD METANIOBATE
FTD-TT-64-320/1&2&4 N64-26117 18-25

SOLID SOLUTIONS OF QUASI-BINARY SYSTEM INDIUM PHOSPHIDE-GALLIUM PHOSPHIDE - CRYSTALLINE LATTICE IDENTIFICATION
FTD-TT-64-151/1&2 N64-28528 20-25

TEMPERATURE DEPENDENCE OF DEFORMATION RESISTANCE OF SUBSTITUTIONAL SOLID SOLUTIONS - MECHANICAL PROPERTIES OF ALLOYS N64-31469 23-18

THERMODYNAMIC PROPERTIES OF SOLID SOLUTIONS OF SELENIDES & TELLURIDES OF BISMUTH & ANTIMONY AND COMPOUNDS OF MAGNESIUM & INDIUM
AFCRL-64-623 N64-32301 23-07

HOMOGENEITY OF CADMIUM SELENIDE-CADMIUM SULFIDE SOLID SOLUTIONS BY X-RAY FLUORESCENCE
GNE/PHYS/64-6 N64-33759 24-25

SOLID STATE
DIRECT CURRENT AMPLIFIER WITH SOLID STATE CHOPPER GATE N64-11735 03-15

ALPHA MONITORING SYSTEM WITH SOLID STATE SIGNAL DETECTOR
EUR-429.E N64-13143 04-23

LATTICE HEAT CAPACITY AND THERMODYNAMIC PROPERTIES OF SOLID HYDROGEN AT SMALL MOLAR VOLUME
UCRL-10757 N64-13212 04-19

PLASMA-LIKE PROPERTIES OF CHARGE CARRIERS IN SOLID-STATE MATERIALS - ELECTROMAGNETIC WAVE PROPAGATION
RADC-TDR-63-493 N64-13787 05-24

SOLID-STATE DOPPLER RADAR FOR SPACE RENDEZVOUS AND PLANETARY LANDINGS N64-16188 08-08

HIGH TEMPERATURE CHEMISTRY AND PHYSICS OF MATERIALS IN SOLID STATE N64-17265 09-25

SYNTHESIS OF NEW SOLID COMPOUNDS CONTAINING NITROGEN, OXYGEN, & FLUORINE
AD-434866 N64-18782 11-07

SOLID STATE DIFFUSION IN METALS AND ALLOYS
AEC-TR-6313 N64-19886 12-25

SOLID STATE TIMING APPARATUS TO DISCONNECT SOLAR CELLS FROM BATTERIES AFTER TWO YEAR PERIOD
NASA-TM-X-55019 N64-27253 19-06

ELECTRON BEAM, SOLID STATE, AND PLASMA STUDIES
MDL-Q8 N64-27996 20-23

GAMMA IRRADIATED LASER MATERIALS, TUNNELING STUDIES, MILLIMETER WAVE MASERS, GAS LASERS - SOLID STATE STUDIES N64-27998 20-23

SOLID STATE FLOW MONITORING TRIP AND ALARM SYSTEM FOR REACTOR
AECL-1974 N64-28134 20-15

DETERMINATION OF NEUTRON FIELDS USING HELIUM-3 SOLID STATE SPECTROMETER
BRL-1505 N64-33350 24-23

WATER VAPOR CONDENSATION TO SOLID STATE IN ELECTRIC FIELD IN PRESENCE OF IONS
FTD-TT-64-548/162 N64-33941 24-23

SOLID STATE DEVICE
SA DIFFERENTIAL AMPLIFIER
SA LASER
SA MASER
SA SEMICONDUCTOR DEVICE
HIGH-SENSITIVITY SOLID-STATE LIGHT DETECTOR CONSISTING OF GALLIUM ARSENIDE PHOTOVOLTAIC CELL AND FIELD-EFFECT TRANSISTOR
NASA-CR-55164 N64-13068 04-25

NATIONAL EMERGENCY ALARM REPEATER RECEIVER USING SOLID STATE CIRCUITRY
AD-426197 N64-13604 05-08

CARRIER INJECTION ELECTROLUMINESCENT SOLID STATE LIGHT SOURCES
AFCRL-63-526 N64-13625 05-25

SOLID-STATE OPERATIONAL AMPLIFIERS
AD-413473 N64-14016 05-09

MICROWAVE RESEARCH - ELECTROMAGNETICS, PLASMA ELECTROPHYSICS & ELECTRONICS, SOLID STATE & MATERIALS RESEARCH, MICROWAVE CIRCUITS & SYSTEMS
R-452.24-63 N64-14826 06-23

SOLID STATE MICROWAVE AMPLIFIERS WITH DIRECT OR ALTERNATING LOCAL POWER N64-15114 07-09

SOLID STATE OPTICAL MASERS PUMPED CONTINUOUSLY N64-15467 07-25

OPTICALLY PUMPED SOLID STATE LASER WITH CONTINUOUS WAVE POWER
SR-3 N64-16441 08-25

SOLID STATE RESEARCH IN AREAS OF LASER, BAND STRUCTURE, SPECTROSCOPY, MAGNETISM, AND RESONANCE
ESD-TDR-64-15 N64-16774 08-25

IMPROVED BRIGHTNESS & CONTRAST IN EXPERIMENTAL MODEL OF RANDOM-ACCESS SOLID-STATE PANEL DISPLAY SYSTEM
RTD-TDR-63-4294 N64-17115 09-06

SOLID STATE COMMUNICATIONS DEVICES
RADC-TDR-63-521 N64-17647 09-09

NEUTRON AND ALPHA SOLID STATE DETECTOR USED AS COUNTER DURING COLUMN SEPARATION OF PLUTONIUM AND VARIOUS HEAVY ELEMENTS
UCRL-11300 N64-17980 10-23

MULTIMODE OSCILLATIONS IN SOLID STATE MASERS
AFCRL-63-917 N64-18023 10-25

SILICON SOLID STATE DEVICES FOR INTEGRATED CIRCUITS
AL-TDR-64-29 N64-18376 10-09

PHOTOCONDUCTOR-ELECTROLUMINESCENT SOLID STATE LIGHT INTENSIFIER
NAVTRADEVCEN-562-1 N64-18563 11-25

SOLID STATE SANDWICH-TYPE IMAGE INTENSIFIER CONSISTING OF PHOTOCONDUCTIVE LAYER AND PHOTOGRAPHIC EMULSION IN ELECTRIC FIELD
AFCRL-64-133 N64-18598 11-25

FERRIELECTRICS IN SOLID STATE ADAPTIVE CONTROL SYSTEMS N64-18840 11-09

SILICON CONTROLLED RECTIFIER FOR ELECTRIC CURRENT SWITCHING - SOLID STATE DEVICE N64-19526 12-09

SOLID STATE & TRAVELING WAVE MASER TECHNIQUES
RADC-TDR-64-115 N64-19674 12-25

TOTAL AND DIFFERENTIAL SOLID ANGLES FOR PROTON RECOIL SOLID STATE NEUTRON DETECTOR
AE-116 N64-19859 12-23

SOLID STATE DETECTOR FOR PROTON ENERGY SPECTRUM MEASUREMENTS - SATELLITE INSTRUMENTATION
NASA-CR-53510 N64-19983 12-15

LASER MATERIALS & SOLID STATE DEVICES
IER-2 N64-20126 13-25

NETWORK TRANSFORMATION THEORY AND SOLID STATE COMPONENTS IN ACTIVE NETWORKS
NDRE-142/176 N64-20169 13-09

GAS AND SOLID STATE LASER DEVICES
TRG-134-QTR-7 N64-20381 13-25

PHOTOCONDUCTOR AND ELECTROLUMINESCENT LAMP FOR SOLID STATE DISPLAY DEVICE
RTD-TDR-63-4163 N64-20384 13-09

SOLID STATE DEVICE - FREQUENCY CONVERTER FOR L-, S-, C-, AND X-BANDS
AD-432394 N64-21396 14-08

SOLID STATE V-BAND HARMONIC GENERATOR
A-103-004-5.0-56 N64-21399 14-09

FABRICATION OF THERMOELECTRIC COOLERS IN SIZES COMPARABLE TO SOLID STATE NETWORK CIRCUIT BLOCKS
REPT.-20-74300-20 N64-21450 14-06

SOLID STATE ANALOG-TO-DIGITAL CONVERTER - DEPLETION REGION MOVEMENT DETECTION AND ELECTRON AND HOLE INJECTION IN SEMICONDUCTOR P-N JUNCTION
MEMO-400 N64-21767 15-25

FABRICATION OF SOLID STATE ANALOG-TO-DIGITAL CONVERTER BASED ON DEPLETION REGION MOVEMENT IN SEMICONDUCTOR P-N JUNCTION N64-21768 15-25

MANUFACTURE OF MICROMINIATURE SEMICONDUCTOR SOLID STATE CIRCUITS N64-21829 15-09

MATERIAL TESTING FOR SOLID-STATE FERROELECTRIC ACCELEROMETER
AD-432049 N64-21872 15-15

SOLID STATE DEVICE - NONLINEAR INTERACTION INVOLVING OPTICAL MASER WAVES
TR-430 N64-22052 15-23

SOLID STATE PHYSICS - DEVICES, LASERS, MAGNETISM & RESONANCE
ESD-TDR-64-16 N64-22222 15-25

SOLID STATE DEVICES FOR SURVEILLANCE RADAR RECEIVERS AND TRANSPONDERS
WP-2785-7 N64-23907 16-09

SOLID STATE MICROELECTRONIC SYSTEMS
REPT.-3 N64-25035 17-09

EXCITATION OF TRIVALENT RARE EARTH ION LASERS AND OTHER SOLID STATE LASER STUDIES
IER-1 N64-25090 17-25

ELECTRON BEAM, SOLID STATE, AND PLASMA DEVICES
MDL-Q7 N64-25440 17-09

SOLID STATE CIRCUITS FOR SATELLITE INSTRUMENTATION
NASA-TN-D-1758 N64-25707 17-09

SOLID STATE SATELLITE SEPARATION SEQUENCE TIMER TO PROVIDE FOR PAYLOAD SEPARATION SEQUENCE AT APPROXIMATE INTERVALS
NASA-TN-D-2319 N64-25710 17-15

SOLID STATE AND TRAVELING WAVE MASER TECHNIQUES
RADC-TDR-64-226 N64-25755 17-25

SOLID STATE DEVICES - SILICON TRANSISTOR AND VOLTAGE TUNED OSCILLATOR FOR RADIO FREQUENCY

GENERATOR
QPR-3 N64-25994 18-25

SOLID STATE LIGHT VALVE FOR PROJECTION DISPLAY
RADC-TDR-64-192 N64-26232 18-25

SOLID STATE DEVICE, LASERS, REFRACTORY CRYSTALS, MOLECULAR RESONANCE, AND STRUCTURAL BAND RESEARCH
ESD-TDR-64-47 N64-26264 18-25

GAS LASER, STEADY SOLID-STATE DISCHARGES, AND OUTPUT CONTROL STUDIES
TRG-134-QTR-8 N64-26302 18-25

X-BAND SOLID STATE DETECTOR AMPLIFIER
QPR-2 N64-26511 18-09

MICROWAVE INTERACTIONS IN DISTRIBUTED SEMICONDUCTOR STRUCTURES & SOLID STATE ULTRASONIC AMPLIFIERS AND TRANSDUCERS
QR-4 N64-26850 18-25

OPTICALLY PUMPED SOLID STATE LASER WITH TEN WATTS OF CONTINUOUS WAVE POWER
IER-5 N64-28550 20-25

SOLID STATE MASERS AND PARAMAGNETIC RESONANCE IN EXTREMELY HIGH FREQUENCY RANGE
ITR-4 N64-28645 20-25

FREQUENCY STABILITY AND BANDWIDTH AND POWER CAPACITY IMPROVEMENTS FOR SOLID STATE GENERATOR
QPR-4 N64-29100 21-09

PRODUCTION ENGINEERING MEASURE FOR IMPROVED RELIABILITY OF SOLID ELECTROLYTE TANTALUM CAPACITORS
QR-2 N64-29345 21-17

SOLID STATE MICROWAVE GENERATORS - NEGATIVE RESISTANCE AND CURRENT GAIN
REPT.-5 N64-29419 21-09

SOLID STATE RESEARCH - MATERIALS, DEVICES, LASERS, AND SPECTROSCOPY OF SOLIDS
ESD-TDR-64-48 N64-29420 21-25

CONSTRUCTION AND RESOLUTION POTENTIAL OF FRINGE COUNTING ACCELEROMETER, MULTIPASS ACCELEROMETER, AND MANUAL SINGLE-FRINGE RESOLVING SYSTEM
IR-2 N64-29501 21-15

X-BAND SOLID STATE DETECTOR/AMPLIFIER
QPR-3 N64-30167 21-09

YTTRIUM-ALUMINUM GARNET /YAG/ CRYSTAL, LANTHANUM ALUMINATE, & CALCIUM MOLYBDATE AS HOST MATERIALS FOR SOLID STATE ROOM TEMPERATURE LASERS
IER-3 N64-30170 21-25

SOLID STATE LOW-VOLTAGE REGULATOR WITH TEMPERATURE STABILITY USING THERMISTOR COMPENSATION, FORWARD-BIASED DIODES, AND MATCHED SILICON TRANSISTORS
HDL-TR-1222 N64-30619 22-15

SOLID STATE SYNCHRO CONVERSION DEVICES
N64-31493 23-09

SOLID STATE LASER WITH MANY ACTIVE ELEMENTS - OSCILLATION CONDITIONS, ASYMPTOTIC EXPRESSIONS, AND OPTICAL CORRECTION OF INHERENT DEFECTS
AFCRL-64-604 N64-31811 23-25

MICROWAVE SOLID-STATE DEVICES
USAEL-TR-2476 N64-32440 23-09

SOLID STATE THERMOSTAT USING THERMISTOR SENSOR AND TRANSISTOR CIRCUITS
NASA-CR-58858 N64-33038 24-09

PHOTOVOLTAIC, OPTICAL, THERMAL, AND ELECTRICAL PROPERTIES OF MATERIALS AND MATERIAL STRUCTURES FOR SOLID STATE DEVICES
NASA-CR-58763 N64-33281 24-25

SOLID STATE AMPLIFIER FOR SEISMOMETRY
TR-64-73 N64-33837 24-09

SOLID STATE PHYSICS
SOLID STATE PHYSICS - DISLOCATIONS
JPRS-18008 N64-10732 02-25

SOLID STATE PHYSICS - FRICTION OF DISLOCATION IN MONOCRYSTALS & MECHANICAL PROPERTIES OF COPPER-GOLD ALLOYS
JPRS-18062 N64-10738 02-25

SOLID STATE SPECTROSCOPY OF RARE EARTH IONS
N64-15113 07-25

NUCLEAR PHYSICS RESEARCH, SOLID STATE STUDIES, AND THEORETICAL PHYSICS
PR-P-60 N64-16190 08-23

SOLID STATE PHYSICS RESEARCH - LASERS, SEEBECK COEFFICIENT, MATERIALS, SPECTROSCOPY, & MAGNETISM AND RESONANCE
ESD-TDR-63-584 N64-16868 08-25

SOLID STATE PHYSICS, MASS SPECTROSCOPY, AND MAGNON-PHONON SPECTROSCOPY
AD-436276 N64-19134 11-23

SOLID STATE MASS SPECTROMETRY - MOLECULAR CARBON STUDIES
RTD-TDR-63-4145 N64-20397 13-25

RESEARCH ACTIVITIES IN SOLID STATE AND PLASMA PHYSICS, AND HIGH AND LOW ENERGY PHYSICS
NUP-64-2 N64-20429 13-23

VIBRATIONAL AND ROTATIONAL ENERGY LEVELS IN ATOMIC AND MOLECULAR SYSTEMS IN SOLID STATE
WR-AF-5 N64-21435 14-25

NUCLEAR, PLASMA, SOLID STATE, & ATOMIC PHYSICS RESEARCH
ORNL-3582 N64-21484 14-23

QUARTZ CRYSTAL UNITS FOR USE IN SINGLE-SIDEBAND VOICE-COMMUNICATION EQUIPMENT
REPT.-1 N64-21997 15-25

SOLID STATE PHYSICS - DEVICES, LASERS, MAGNETISM & RESONANCE
ESD-TDR-64-16 N64-22222 15-25

STRESS RELAXATION BEHAVIOR OF NONLINEAR VISCOELASTIC SOLIDS
AD-434682 N64-23141 16-25

SOLID STATE BONDING N64-23176 16-25

FAILURE MODES IN MICROELECTRONICS - RELIABILITY IN SOLID STATE PHYSICS
RADC-TDR-64-61 N64-23953 16-09

SOLID STATE PHYSICS & ULTRASONIC PROPERTIES OF MICROWAVE DELAY LINES
RADC-TDR-64-22 N64-24181 16-09

ATOMIC STRUCTURES, RADIOACTIVE ATOMS, MASERS, AND SOLID STATE PHYSICS
CU-3-64-SC-90789 N64-25319 17-23

SOLID STATE PHYSICS, PHYSICAL METALLURGY, AND CHEMISTRY OF SOLIDS
NASA-CR-58044 N64-26365 18-25

FLUORESCENCE, POWER TRANSMISSION, AND SOLID STATE PHYSICS N64-26555 18-08

SOLID STATE RESEARCH - DEVICE DESIGN & MATERIALS, BAND STRUCTURE & SPECTROSCOPY, TRANSITION-METAL & RARE-EARTH COMPOUNDS, AND OPTICS
AD-439686 N64-26649 18-25

PHONON INTERACTIONS IN SOLID STATE MATERIALS, STIMULATED EMISSION OF BREMSSTRAHLUNG RADIATION, AND TRAVELING WAVE PHONON INTERACTIONS
REPT.-06031-2-S N64-26701 18-25

SOLID STATE PHYSICS - MOTOR GENERATORS AND HIGH MAGNETIC FIELDS N64-27118 19-06

CONTINUUM FIELD REPRESENTATIONS FOR LATTICE VIBRATION

AD-441306 N64-27747 19-25

RESEARCH PROJECTS IN MATERIAL SCIENCE, SOLID STATE PHYSICS, CHEMISTRY, ELECTRICAL ENGINEERING, CIVIL ENGINEERING, CHEMICAL ENGINEERING, AND MECHANICAL ENGINEERING
AR-4 N64-28765 20-25

RESEARCH PROJECTS IN BIOLOGY, PLASMA PHYSICS, RADIATION, PROPELLANTS, AND SOLID STATE PHYSICS
NASA-CR-58625 N64-28891 20-23

THEORY OF SCATTERING OF EXCITATIONS IN SOLIDS, SOLID STATE ANALOG OF USUAL PARTIAL WAVE EXPANSION OF SCATTERING AMPLITUDE, AND APPLICABILITY OF THEORY TO PHONONS, SPIN WAVES, AND ELECTRONS
TR-2 N64-29554 21-25

NUCLEAR PHYSICS, SPACE RADIATION, SOLID STATE PHYSICS, AND COMPUTER PROGRAMMING
AECL-2044 N64-29775 21-23

PHYSICS AND CHEMISTRY OF SOLIDS AND INTERFACES - TRACER METHODS
AECL-2003 N64-30376 22-07

STRUCTURAL PROBLEMS IN CRYSTALLOGRAPHY AND SOLID STATE PHYSICS
FTD-TT-64-589/1 N64-32238 23-25

NAVY RESEARCH ANNUAL REPORT - ATMOSPHERE AND ASTROPHYSICS, CHEMISTRY, ELECTRONIC DEVICES, MECHANICS, METALLURGY AND CERAMICS, NUCLEAR AND ATOMIC PHYSICS, AND SOLID STATE PHYSICS
AD-448760 N64-32600 23-23

SOLID STATE PHYSICS - THEORY, CRYSTALS, METALS, NONMETALS, AND RADIATION METALLURGY
ORNL-3676 N64-32925 24-25

MOSSBAUER EFFECT FOR PRECISE MEASUREMENT IN SOLID STATE & ATOMIC PHYSICS, MECHANICS, GEODESY, AND OPTICS
I-A2217-6 N64-33722 24-25

SOLID SUSPENSION
S COLLOID

SOLIDIFICATION
SOLIDIFICATION OF LIQUID HYDROGEN AND NEON FOR CRYOGENIC-SOLID COOLING SYSTEM
REPT.-0694-01-3 N64-12999 04-26

UNIDIRECTIONALLY SOLIDIFIED BINARY EUTECTIC ALLOYS - SOLIDIFICATION AND TESTING PROCEDURES, MECHANICAL PROPERTIES AND FRACTURE MECHANISMS
B-910068-4 N64-13125 04-18

RAPID SOLIDIFICATION METHODS FOR HYDROCARBON FUELS
TRECOM-TR-63-50 N64-14977 06-26

SOLIDIFICATION RATE EFFECT ON BETA PHASE IN 5456 ALUMINUM ALLOY
NASA-TM-X-54616 N64-16703 08-18

DENDRITIC MORPHOLOGY OF UNIDIRECTIONALLY SOLIDIFIED AISI 4340 STEEL CASTINGS
AMRA-CR-63-04/2 N64-18194 10-18

SOLIDIFICATION OF HIGH STRENGTH STEEL - COOLING EFFECT ON DENDRITE ARM SPACING, MICROSEGREGATION, AND DENDRITE MORPHOLOGY OF IRON-NICKEL ALLOY
AMRA-CR-63-04/1 N64-21354 14-18

ORIENTATION DEPENDENCE OF TENSILE STRENGTH AND FRACTURE TOUGHNESS OF 25 PERCENT NICKEL MARAGING STEEL PREPARED BY UNIDIRECTIONAL SOLIDIFICATION
N64-24364 17-18

SOLIDIFICATION OF HYDROCARBON FUELS - GELS
AD-439722 N64-26688 18-19

RAPID SOLIDIFICATION OF DIISOCYANATE AND AMINE HYDROCARBON FUELS USING POLYUREA GELLING AGENTS
AD-447956 N64-32175 23-07

LATTICE AND THERMAL PROPERTIES OF SOLIDIFIED INERT GASES
AD-448620 N64-33661 24-25

SOLIDS
IONIC POLYMERIZATION, & POLYMERIZATION IN SOLID PHASE - RADIATION POLYMERIZATION
JPRS-18868 N64-10581 01-07

MEASUREMENT OF THERMAL RADIATION PROPERTIES OF SOLIDS OVER WIDE RANGE OF TEMPERATURES - EMITTANCE STUDIES
NASA-SP-31 N64-10937 02-01

THERMAL RADIATION PROPERTIES OF SOLIDS AT CRYOGENIC TEMPERATURES N64-10941 02-13

APPARATUS FOR MEASURING HEMISPHERICAL EMITTANCE OF SOLIDS IN AMBIENT & LIQUID NITROGEN TEMPERATURE RANGE, WITH COPPER & ALUMINUM FOIL DATA
N64-10942 02-13

HEMISPHERIC SPECTRAL REFLECTANCE OF OPAQUE SOLIDS
N64-10948 02-13

THERMAL RADIATION PROPERTIES FOR SOLIDS & COATINGS AT HIGH TEMPERATURES N64-10963 02-23

TOTAL NORMAL EMITTANCE MEASUREMENT TECHNIQUE FOR OPAQUE SOLID MATERIALS OVER 1000- TO 3000-DEG F RANGE N64-10964 02-13

DEBYE CHARACTERISTIC TEMPERATURE OF SOLIDS
ASD-TDR-63-881 N64-12036 03-25

ACCOMMODATION COEFFICIENTS AND EVAPORATION OF SOLIDS, SUCH AS ICE, PHENOL, BENZENE AND CAMPHOR
RSIC-13 N64-12264 03-25

SURFACE TENSION, BONDING, & OTHER CHARACTERISTICS OF SOLIDS & LIQUIDS
FTD-TT-62-1831/1&2&4 N64-12360 03-23

ORTHOGONALIZED PLANE WAVE ENERGY-BAND STRUCTURE OF SOLIDS DETERMINED BY AUTOMATIC COMPUTER PROGRAM
LL-TR-295 N64-12928 04-23

MECHANICAL PROPERTIES OF SOLIDS, WAVE PROPAGATION & STRUCTURAL RESPONSE, HYPERVELOCITY IMPACT, AND FRACTURE
ASD-TDR-63-140 N64-13431 05-01

CONTINUUM THEORY OF ORIENTED MATERIALS TO DESCRIBE NONLINEAR MECHANICAL BEHAVIOR OF SOLIDS
N64-13433 05-25

TIME DEPENDENT FRACTURE - RUPTURE OF SOLIDS
N64-13445 05-25

STRESS WAVES IN SOLIDS - CALCULATIONS FOR HYPERVELOCITY IMPACTS N64-13524 05-23

TRACE ANALYSIS OF SOLIDS BY MASS SPECTROMETRY
AFCRL-63-530 N64-14113 05-23

THERMAL DIFFUSIVITY OF SOLIDS USING LASER AS PULSE HEAT SOURCE
ASD-TDR-63-882 N64-14116 05-13

MOTION OF SOLID BODY NEAR FIXED POINT IN NEWTONIAN FIELD OF FORCES
NH-TRANS-437 N64-14835 06-23

ABSORPTION OF SHORT WAVELENGTH SOUND WAVES BY SOLIDS
E-T-G-63-24 N64-15372 07-23

HARDNESS OF NONMETALLIC SOLIDS FOR RESISTANCE TO STRUCTURAL BREAKDOWN
AFCRL-63-26 N64-15583 07-23

MOTION EQUATIONS FOR SYSTEMS OF SOLID BODIES
FTD-TT-62-1152/1&2&4 N64-15690 07-23

PROPAGATION OF ULTRASONIC ELASTIC WAVES IN SOLID BODIES AND IN GRANULAR MEDIA
AFCRL-63-932 N64-15723 07-23

REFLECTION COEFFICIENT OF SOLIDS IN VACUUM ULTRA-VIOLET
NASA-CR-53114 N64-16760 08-25

THERMODYNAMICS OF INTERSTITIAL SOLID SOLUTIONS AND

REFRACTIVE COMPOUNDS - CARBIDES, OXIDES, AND NITRATES
ASD-TR-61-445, PT. 3 N64-16801 08-25

FAR INFRARED SPECTRA OF CRYSTALS AND SOLIDS AT CRYOGENIC AND ROOM TEMPERATURES
AFCRL-64-22 N64-16822 08-23

ELECTRON SPIN RESONANCE, FREQUENCY SHIFTS, AND SPIN LATTICE RELAXATION OF SOLIDS AT LOW TEMPERATURES
AD-432140 N64-16847 08-25

MECHANISM OF DECOMPOSITION, COMBUSTION, AND DETONATION OF SOLIDS
AD-431563 N64-16892 08-26

ATOM DENSITY MEASUREMENTS BY LUMINESCENCE OF SOLIDS
NASA-CR-20 N64-17987 10-25

ULTRASONIC WAVE PROPAGATION AND INTERACTION IN SOLID MATERIALS
ML-TDR-64-21, PT. 1 N64-18048 10-23

FLOW DISTORTION OF ULTRASONIC WAVES OF FINITE AMPLITUDE IN SOLIDS
FTD-MT-63-13/1626364 N64-18745 11-23

SYNTHESIS OF NEW SOLID COMPOUNDS CONTAINING NITROGEN, OXYGEN, & FLUORINE
AD-434866 N64-18782 11-07

TEMPERATURE DISTRIBUTION IN SYSTEM OF SOLID BODIES IN CONTACT THROUGH THIN LAYER
RSIC-148 N64-19121 11-20

HYDRODYNAMIC PHASE OF HIGH VELOCITY SOLID-SOLID IMPACT INTERACTION WITH ATTENTION TO LATE STAGE EQUIVALENCE
GA-5119 N64-19130 11-23

SEMICONDUCTOR SOLIDS USED AS PHOTOCATALYSTS IN FORMATION OF ENDOTHERMIC COMPOUNDS
AFCRL-64-120 N64-19145 11-25

WEIGHT LOSS OF VOLATILE SOLIDS IN SPACE ENVIRONMENT N64-19361 12-19

DYNAMIC THEORY OF LINEAR VISCOELASTIC SOLIDS USING GENERALIZED LAME & SOMIGLIANA STRESS FUNCTIONS
TR-26 N64-20133 13-23

MEASUREMENT OF HYPERFINE INTERACTIONS IN SOLIDS USING RADIOACTIVE NUCLEI
AROD-3006-6 N64-20302 13-23

GRAPHICAL METHOD FOR DETERMINATION OF AXIAL AND TRANSVERSE MOMENTS OF INERTIA IN SOLIDS OF REVOLUTION
FA-R-1708 N64-20553 13-23

THERMAL TRANSIENTS RESULTING FROM INSTANTANEOUS HEAT SOURCES IN SOLIDS WITH TEMPERATURE DEPENDENT THERMAL PROPERTIES
D1-82-0310 N64-20624 13-13

SOLIDS MASS SPECTROMETER - NOISE PROBLEM AND PRODUCTION OF ARGON ION BEAM FREE OF CONTAMINANTS
NASA-CR-56039 N64-20642 13-15

RARE GAS DIFFUSION IN SOLIDS
EUR-259.D N64-21705 15-25

QUANTUM THEORY - EQUATION OF STATE FOR SOLID BODIES
FTD-TT-63-1113/16264 N64-22159 15-25

INSTRUMENT FOR MEASURING SPECTRAL EMITTANCE OF SOLIDS IN INFRARED REGION AT LOW TEMPERATURES
NOLC-589 N64-22912 16-23

ABLATION OF SOLID LOW CONDUCTIVITY MATERIAL
PIBAL-683 N64-26064 18-13

CONFERENCE ON MECHANICS OF GASES, LIQUIDS, AND SOLIDS
FTD-TT-63-471/162 N64-27086 19-23

PRESSURE DEPENDENCE OF ELECTRIC CONDUCTIVITY OF SOLIDS
AD-602044 N64-28515 20-23

MACHINE RECOGNITION - CONSTRUCTION AND DISPLAY OF THREE-DIMENSIONAL ARRAY OF SOLID OBJECTS FROM SINGLE TWO-DIMENSIONAL PHOTOGRAPH BY COMPUTER
MIT-TR-315 N64-29019 21-15

ANALOG COMPUTER STUDY OF ENERGY EXCHANGE BETWEEN GASES AND SOLIDS
AFOSR-64-1001 N64-29249 21-23

MECHANISMS OF DECOMPOSITION, COMBUSTION, AND DETONATION OF SOLIDS
REPT.-0372-01-17 N64-29431 21-26

FAR INFRARED SPECTROSCOPY OF SOLIDS
N64-29481 21-23

ORDERED MAGNETISM IN SOLIDS
TN-3 N64-29616 21-25

ATTENUATION OF STRONG PLANE SHOCK PRODUCED IN SOLIDS BY HYPERVELOCITY IMPACT
DIT-125-5 N64-30203 21-33

TRANSIENT WAVE SCATTERING FROM CIRCULAR CYLINDRICAL CAVITY IN INFINITE ELASTIC SOLID
RTD-TDR-63-3052 N64-30887 22-25

SOLOMON COMPUTER
DESIGN AND OPERATING PRINCIPLES OF SOLOMON II COMPUTER - MULTIPLE PROCESSING TECHNIQUES
RADC-TDR-64-186 N64-26937 18-20

DESIGN, FUNCTIONS, COMPONENTS, AND OPERATION OF SOLOMON PARALLEL NETWORK COMPUTER
REPT.-406A2 N64-32483 23-09

FUNCTIONAL CAPABILITIES OF SOLOMON NETWORK COMPUTER
REPT.-406A2 N64-32619 23-20

APPLICATION OF SOLOMON PARALLEL NETWORK COMPUTER SYSTEM TO DATA PROCESSING PROBLEM AREAS
REPT.-406A2 N64-32620 23-10

SOLUBILITY
X-RAY ANALYSIS OF SOLUBILITY OF TITANIUM, YTTRIUM, ZIRCONIUM, AND NICKEL IN BERYLLIUM
JPRS-17681 N64-10565 01-18

SOLUBILITY OF ALKALI METAL DINONYLNAPHTHALENE SULFONATES IN SOLVENTS OF VARYING POLARITY AND SOLUBILITY THEORY OF OIL-SOLUBLE SOAPS
NRL-6010 N64-12832 04-07

SOLUBILITY, AMINE EXTRACTION, & ION EXCHANGE OF PROTACTINIUM IN SULFATE & SULFURIC ACID
N64-15659 07-07

DIFFUSION, SOLUBILITY, & DISTRIBUTION COEFFICIENT OF ZINC IN GALLIUM ARSENIDE & GALLIUM PHOSPHIDE
SEL-63-147 N64-16991 09-25

SOLUBILITY OF METAL OXIDES IN SUPERCRITICAL AQUEOUS SOLUTIONS IN STUDY OF SINGLE CRYSTAL GROWTH
AFCRL-64-38 N64-17124 09-25

NITROGEN SOLUBILITY IN WATER AND EXTRACTED HUMAN FAT - GAS CHROMATOGRAPHIC DETERMINATION
SAM-TDR-64-1 N64-19822 12-16

SOLUBILITY OF ZINC OXIDE IN VARIOUS SOLUTIONS - DETERMINATION BY ATOMIC ABSORPTION SPECTROSCOPY
ARL/MET-17 N64-21052 14-07

SOLUBILITY AND DIFFUSION STUDIES OF TRANSITION ELEMENTS IN LIQUID ALKALI METALS
AI-64-75 N64-21476 14-18

FLUID BALL SOLUBILITY AND CURING PROCESS FOR NITROCELLULOSE-BASED PROPELLANTS
RK-TR-64-1 N64-21794 15-26

RELATION BETWEEN SOLUBILITY OF CARBON IN FERRITE AND TYPE OF CARBIDES FORMED ON TEMPERING

FTD-TT-63-349/1&2&4 N64-22186 15-18

SOLUBILITY OF NIOBIUM-ZIRCONIUM IN SODIUM BY ACTIVATION ANALYSIS
NRL-6051 N64-22508 15-07

CRYOGENIC SOLUTIONS AND SOLUBILITIES IN LIQUID FLUORINE
NASA-TN-D-2286 N64-23233 16-26

SOLUBILITY OF NEON IN WATER AND EXTRACTED HUMAN FAT
SAM-TDR-64-28 N64-24141 16-16

AGING IN ALLOYS WITH TEMPERATURE DEPENDENT SOLID SOLUTION CONCENTRATION
FTD-TT-64-124/1&2&4 N64-25464 17-18

FUEL CELLS - MASS TRANSFER IN SOLID METAL ELECTRODES, AND GAS SOLUBILITY AND DIFFUSIVITY IN ELECTROLYTES
UFGG-8 N64-25861 18-06

SOLUBILITY AND DIFFUSION OF ULTRAPURE TRANSITION ELEMENTS IN ULTRAPURE ALKALI METALS
NASA-CR-54094 N64-28087 20-18

SOLUBILITY OF CRYSTALLINE SODIUM ALUMINATE
BM-RI-6504 N64-28249 20-07

DIFFUSION & SOLUBILITY OF NITROGEN IN CHROMIUM BY INTERNAL FRICTION MEASUREMENTS
ARL-64-88 N64-29806 21-18

SOLUBILIZATION OF POLAR COMPOUNDS IN TOLUENE SOLVENT BY SULFONES - ANALYZED BY GAS-LIQUID CHROMATOGRAPHY
NRL-6122 N64-29843 21-07

DIFFUSION, SOLUBILITY, AND DISTRIBUTION COEFFICIENT OF ZINC IN GALLIUM ARSENIDE AND GALLIUM PHOSPHIDE
SEL-63-104 N64-31045 22-25

METASTABLE EXTENSION OF SOLUBILITY LIMIT IN SILVER-BASE BINARY ALLOYS OF TIN, ANTIMONY, AND SILICON
TR-14 N64-31289 22-18

EFFECT OF ULTRASOUND ON PROCESS OF LEACHING SLIGHTLY SOLUBLE RARE METAL COMPOUNDS
N64-31417 23-07

SOLUTION
SA ITERATIVE SOLUTION
SA SOLID SOLUTION
HIGH ENERGY OXIDIZERS IN SOLUTION - HYDROGEN FLUORIDE AND NITROGEN FLUORIDE
AD-430938 N64-16888 08-07

GAS-LIQUID CHROMATOGRAPHIC INVESTIGATION OF THERMODYNAMICS OF NONELECTROLYTE SOLUTIONS
NASA-CR-53391 N64-18175 10-07

STRUCTURE OF SOLUTION SET FOR GENERALIZED REDUCED HAUSDORF MOMENT PROBLEM
MRC-453 N64-18379 10-20

TITRATION OF BORIC ACID IN AQUEOUS SOLUTION
UCRL-7756 N64-20271 13-07

SOLID METAL CORROSION BY LIQUID METAL - SOLUTION CONTROLLED PROCESSES N64-20788 14-07

NEW METHODS FOR SOLUTION OF NONEQUILIBRIUM FLOWS
N64-26136 18-11

GENERAL SOLUTION OF COMPRESSIBLE LAMINAR BOUNDARY LAYER IN STAGNATION REGION OF BLUNT BODIES IN AXISYMMETRIC FLOW
NASA-TN-D-2234 N64-28057 20-11

DIGITAL COMPUTER PROGRAM FOR SOLVING REACTOR KINETICS EQUATIONS
NAA-SR-9943 N64-28668 20-23

SOLUTION HEAT
S SPECIFIC HEAT

SOLVENT
HIGH ENERGY DENSITY BATTERIES USING NONAQUEOUS SOLVENTS
NASA-CR-55055 N64-12031 03-06

SOLVENT-INDUCED INFRARED FREQUENCY SHIFTS
NRL-5906 N64-14647 06-07

HIGH PERFORMANCE SOLVENT EXTRACTION MACHINE FOR APPLICATION TO VERY HIGHLY RADIOACTIVE SOLUTIONS
ORNL-3533 N64-18248 10-07

ELECTROCHEMICAL STUDY OF CELL SOLVENTS IN HIGH ENERGY BATTERIES
NASA-CR-54024 N64-18441 10-06

COMPATIBILITY OF POLYETHYLENE FILTER MEMBRANES WITH LIQUID PROPELLANTS AND SOLVENTS
RPL-TDR-64-38 N64-21452 14-19

SOLVENT PROPERTIES OF DIMETHYL SULFOXIDE
N64-22885 16-07

HIGH ENERGY DENSITY NONAQUEOUS BATTERIES - GENERAL ENERGY CONSIDERATION ON ROLE OF SOLVENT
N64-22887 16-06

RADIOISOTOPIC EVALUATION OF ORGANIC RESIDUE AND CONTAMINATION LEFT BY PROPRIETARY SOLVENTS
ADR-08-13-63.1 N64-22970 16-07

SOLVENT ACTIVITY IN RAOULT LAW REGION OF GALLIUM-CADMIUM SYSTEM
LA-2997 N64-26800 18-07

CONDUCTANCE OF ALKALI METAL SULFONATES IN POLAR ORGANIC SOLVENTS
NRL-6116 N64-30681 22-07

SOLVENT EXTRACTION RECOVERY OF THORIUM AND YTTRIUM FROM SILICA-CONTAINING COLORADO ORES
BM-RI-6457 N64-31295 22-07

ELECTRON SPIN RESONANCE AND ULTRAVIOLET SPECTRA OF ION SOLVENTS
AD-449206 N64-32516 23-07

EFFECT OF SOLVENTS ON SILICON HYDROGEN STRETCHING VIBRATION STUDIED WITH INFRARED SPECTROPHOTOMETER
GNE/PHYS/64-17 N64-33817 24-07

SOMMERFELD APPROXIMATION
SOMMERFELDS COMPLEX ORDER WAVE FUNCTIONS TO SOLVE PROBLEM OF RADIATION FROM DIELECTRIC CONE
AFCRL-63-47 N64-15810 07-23

SONAR
PHASE ERRORS IN RADAR OR SONAR SYSTEM AND EFFECTS ON CENTER AND RADIUS OF GYRATION OF AMBIGUITY FUNCTION
REPT. 2900-347-R N64-13096 04-20

ELEMENT VELOCITY DISTRIBUTION CONTROL IN SONAR PIEZOELECTRIC CRYSTAL PROJECTOR ARRAY
N64-15112 07-23

PRESSURIZED BOW DOME OF CABLE-REINFORCED RUBBER CONSTRUCTION FOR USE WITH SONAR EQUIPMENT
REPT.-12 N64-28703 20-34

TARGET SIGNAL REALISM IN SIMULATOR TRAINING OF SONAR OPERATORS
NAVTRADEVCEN-1320-1 N64-30895 22-10

SONDE
SA RADIOSONDE
CF SOUNDING
DATA LINK OSCILLATOR FOR USE IN ROCKETBORNE METEOROLOGICAL DROPSONDE FOR UPPER ATMOSPHERE RESEARCH STUDIES
SAD-130 N64-11824 03-08

GRENADE-EXPLODING ROCKET SONDE FOR MEASURING TEMPERATURE AND WIND UP TO 90 KILOMETERS ALTITUDE
NASA-TN-D-2107 N64-16317 08-23

LIGHTWEIGHT BALLOON-BORNE TRANSOSONDE - METEOROLOGICAL INSTRUMENTS
NRL-5921 N64-16974 09-08

UPPER ATMOSPHERIC ROCKET RESEARCH AND DESCRIPTION OF TELEMETRY GROUND STATIONS
AFCRL-64-195 N64-21720 15-08

AIR LAUNCHED ROCKETSONDE COMPATIBILITY WITH WB-47 AIRCRAFT AND RADIOSONDE RECEIVER FOR WEATHER FORECASTING
AFCRL-64-59 N64-22307 15-32

COMPUTER EVALUATION OF WINDS FROM METEOROLOGICAL ROCKET SONDE MEASUREMENTS
NASA-TM-X-51743 N64-24018 16-21

ROCKET RADIOSONDE PROVIDING FOUR SIMULTANEOUS CHANNELS OF TELEMETRY
USAELRDL-TR-2382 N64-25297 17-32

SONIC BOOM
ATMOSPHERIC EFFECTS ON SONIC BOOM PRESSURE WAVE SHAPES
NASA-RP-79 N64-10422 01-23

MEASUREMENTS OF SHOCK WAVE OVERPRESSURES FROM AIRPLANES AT ALTITUDES TO 75,000 FEET & SUPERSONIC SPEED
NASA-TN-D-2021 N64-10451 01-04

EFFECTS OF VARIOUS WEATHER CONDITIONS ON SONIC BOOM PROPAGATION AND STRENGTH, AS DETERMINED BY COMPUTER SIMULATION & EXPERIMENTAL FLIGHTS
PR-3 N64-14340 06-21

FLIGHT PATH AND ATMOSPHERIC VARIATION EFFECTS ON BOOM PROPAGATED FROM SUPERSONIC AIRCRAFT
NASA-TR-R-191 N64-15406 07-23

EFFECT OF AIRCRAFT CONFIGURATION ON SONIC BOOM OVERPRESSURES N64-20293 13-23

SHOCK WAVE PROPAGATION IN SUPERSONIC FLIGHT - SONIC BOOM
TP-118 N64-23150 16-02

GROUND MEASUREMENT OF SONIC BOOM PRESSURE FOR FIGHTER AND BOMBER AIRCRAFT AT STRATOSPHERIC ALTITUDES
NASA-TR-R-198 N64-24824 17-04

WIND TUNNEL AND FLIGHT TESTING OF AIRPLANE CONFIGURATION INFLUENCE ON SONIC BOOM CHARACTERISTICS
NASA-RP-208 N64-25003 17-04

NOISE AND SONIC BOOM IN OPERATION OF SUPERSONIC AIRCRAFT
AIAA PAPER-64-548 N64-25361 17-04

SONIC BOOMS FROM AIRCRAFT IN MANEUVERS
NASA-TN-D-2370 N64-25808 17-04

SONIC BOOM WAVES IN STRONG WINDS
FFA-97 N64-26294 18-04

NOISE - COMBUSTION, PROPELLER & ROTOR, COMPRESSOR, JET, SONIC BOOM, AND BOUNDARY LAYER
AIAA PAPER-64-545 N64-27751 19-03

SONIC BOOM THEORY, TEST DATA COMPILATION, AND SHOCK WAVE NOISE PROBLEMS OF SUPERSONIC TRANSPORTS
AD-602173 N64-28984 20-11

HUMAN REACTION TO SONIC BOOM N64-30466 22-14

SONIC BOOM EFFECTS ON LIGHT AIRCRAFT, HELICOPTERS, AND GROUND STRUCTURES
AD-602175 N64-31101 22-04

ACOUSTIC THEORY APPLIED TO PREDICTION OF SONIC BOOM GROUND PATTERNS FROM MANEUVERING AIRCRAFT
NASA-TN-D-1860 N64-31223 22-23

SONIC BOOM ANALYSIS DURING SUPERSONIC TRANSPORT TESTING
LR-18084 N64-31618 23-11

ATMOSPHERIC EFFECTS ON SONIC BOOMS
NASA-CR-58843 N64-32891 24-23

SORET COEFFICIENT
UNSTEADY STATE ANALYSIS IN THERMAL DIFFUSION CELL AND DETERMINATION OF DIFFUSION COEFFICIENT AND SORET COEFFICIENT
NLM-1167 N64-13343 04-13

SORPTION
SA CHEMISORPTION
SA DESORPTION
CF ADSORPTION
CF CHEMISORPTION
HIGH TEMPERATURE SORPTION OF OXYGEN AND NITROGEN BY NIOBIUM IN ULTRAHIGH VACUUM
TID-19489 N64-16069 07-18

SORPTION OF GASES BY VAPOR-DEPOSITED TITANIUM FILMS
ORNL-3481 N64-16526 08-23

CRYOSORPTION PUMPING OF HYDROGEN WITH MOLECULAR SIEVES OR CHARCOAL AS ADSORBENTS
AEDC-TDR-64-100 N64-21290 14-23

ION SORPTION PUMP WITH COLD CATHODE
FTD-TT-63-702/1&2 N64-22657 15-15

SORPTION ISOTHERM OF PHOSPHORUS AND SYNTHETIC FAUJASITE
QTSR-2 N64-26716 18-07

FACTORS AFFECTING PRACTICAL APPLICATION OF CRYOSORPTION N64-28207 20-23

SORPTION OF ORGANIC FUELS DURING OXIDATION AT ELECTRODES
AROD-3472-3 N64-29012 20-07

STRESS-STRAIN BEHAVIOR, SHORE-D HARDNESS, AND OXYGEN SORPTION OF POLY/N-VINYL CARBAZOLE/ AS FUNCTION OF NUCLEAR RADIATION ABSORPTION
NARF-63-14T N64-29811 21-19

INCLUSION COMPLEXES FORMED BY SULFUR, PHOSPHORUS AND MERCURY IN ZEOLITES - SORPTION AND ADSORPTION
AD-447257 N64-33981 24-07

SOUND
CF ACOUSTICS
SOUND SCATTERING IN TURBULENT FLOW N64-10025 01-11

DETERMINATION OF SOUND PROPAGATION RATE IN LIQUIDS FLUID DYNAMICS, FLIGHT MECHANICS, THERMODYNAMICS AND STRUCTURAL DYNAMICS
S.M.F. FUND PAPER-FF-34 N64-10080 01-01

ANOMALOUS SOUNDS AND ELECTROMAGNETIC EFFECTS ASSOCIATED WITH FIREBALL ENTRY - METEOR ASTRONOMY
RM-3724-ARPA N64-12681 04-09

SONIC DELAY LINE FOR NAVY SPACE SURVEILLANCE SYSTEM
NRL-5927 N64-15128 07-08

INCOMPRESSIBLE FLOWS AND SOUND RADIATION
AGARD-460 N64-16295 08-23

SOUND PRODUCTION AND FLOW INSTABILITY AS CHARACTERISTICS OF COMPRESSIBLE FLUID FLOW
AGARD-466 N64-16540 08-23

LOUDNESS OF TONES PARTLY MASKED BY NOISE
TIL/T-5470 N64-17756 09-23

INCREASE OF SOUND VELOCITY IN METALS DUE TO EXTERNAL MAGNETIC FIELD INTERACTION WITH MAGNETIC MOMENT OF CONDUCTION ELECTRONS
NASA-CR-53533 N64-18214 10-25

STRUCTURAL VIBRATION DUE TO SOUND AND ENERGY TRANSFER
NASA-TN-D-2266 N64-18959 11-33

EQUATIONS OF SOUND INTENSITY RELATED TO VORTEX SHEDDING
REPT.-1115 N64-21340 14-23

SPECIFIC HEAT AND SPEED OF SOUND DATA CALCULATED FOR IMPERFECT AIR

AEDC-TDR-64-36 N64-21413 14-23

DETERMINING VELOCITY OF SOUND IN GRAPHITE
SSD-TDR-64-80 N64-22323 15-23

SPECIFIC HEAT AND SOUND VELOCITY FOR IMPERFECT NITROGEN AT HIGH TEMPERATURES
AEDC-TDR-64-113 N64-22605 15-11

THERMODYNAMICS - SPECIFIC HEAT AND SOUND SPEED DATA FOR IMPERFECT AIR AND NITROGEN
AEDC-TDR-64-114 N64-22606 15-11

SURFACE AND VOLUME SOUND FROM BOUNDARY LAYERS
AD-439404 N64-25542 17-11

RADIATION OF SOUND FROM CIRCULAR DISK WITH UNIFORM PRESSURE DISTRIBUTION
TRG-142-TN-64-2 N64-26032 18-23

CONVERTER TO TEST TELEVISION INTERMEDIATE FREQUENCY SOUND AMPLIFIER
BI-031 N64-26564 18-09

COMPUTER-AIDED LEARNING OF SOUND IDENTIFICATION
NAVTRADEVCEN-789-2 N64-26892 18-14

NONLINEAR ACOUSTIC OSCILLATIONS OF GAS COLUMN WITHIN ENCLOSED DUCT N64-28474 20-11

VOCAL DIGITIZING WITH VOCODER TO PROVIDE ACCEPTABLE VOICE TRANSMISSION WITH MINIMUN BANDWIDTH EXPENDITURE
ESD-TDR-64-110 N64-28666 20-08

SOUND TRANSMISSION IN MOVING FLUID
REPT.-2 N64-28672 20-23

HIGH PRECISION PRESSURE MEASUREMENT OVER WIDE RANGE BY MEANS OF SOUND VELOCITY MEASUREMENT
ESL-QR-203 N64-29644 21-15

SOUND INTENSITY AND PRESSURE LEVELS
NASA-TM-X-53035 N64-30049 21-23

MEASUREMENT OF CONDUCTIVITY OF WEAKLY IONIZED PLASMA BY HIGH FREQUENCY SOUND
TP-111 /1964/ N64-30478 22-24

PHYSICAL EFFECTS ON HUMAN BODY OF VIBRATIONS AND SOUND CAUSED BY MECHANICAL AND ELECTRICAL TOOLS
JPRS-26922 N64-32305 23-33

RESEARCH IN PHYSICS, CHEMISTRY, MATHEMATICS, METALLURGY, RADIO, AND SOUND
AD-602948 N64-32786 24-10

ACOUSTIC FILTER WITH RUBBER SPRING ELEMENTS FOR ATTENUATING TRANSMITTED SOUND IN SHIPBOARD SYSTEMS
REPT.-165-34 N64-33754 24-17

SOUND FIELD
EFFECT OF HELIUM SOUND FIELD ON BURNING RATE OF AMMONIUM PERCHLORATE-POLYURETHANE TYPE SOLID PROPELLANT
AIAA PAPER-64-108 N64-14853 06-26

SOUND MEASUREMENT
MEASUREMENT OF INTENSITY OF SHORT SOUND SIGNAL AT PRIMARY NEURON LEVEL OF AUDITORY SYSTEM
JPRS-18659 N64-11414 02-16

SONIC LOUDNESS MEASUREMENT, SCALES AND UNITS, HISTORY OF SCALES, AND EXPERIMENTS
N64-12575 04-23

LOW NOISE RECEIVING SYSTEMS FOR SATELLITE COMMUNICATIONS GROUND STATIONS N64-18245 10-08

SOUND MEASUREMENTS DURING LAUNCH OF SATURN I /SA-2/ VEHICLE
NASA-TM-X-51699 N64-24000 16-30

SOUND PROPAGATION
RAREFIED GASES - SOLUTION OF LINEARIZED BOLTZMANN INTEGRAL EQUATION FOR SOUND PROPAGATION IN MAXWELL GAS AND RIGID SPHERE GAS
AFCRL-63-880 N64-11464 03-23

GEOPHYSICAL INVESTIGATION OF ARCTIC ICE PACK - SOUND PROPAGATION N64-12427 04-21

VIBRATION OF LINEARLY DAMPED PLATE, RADIATING SOUND INTO FLUID MEDIUM
AD-423762 N64-12976 04-11

SOUND PROPAGATION IN SOUND ABSORBENT DUCTS WITH SUPERIMPOSED AIRSTREAMS
AMRL-TDR-62-140/IV/ N64-17326 09-23

CHARACTERISTICS OF TWO-WAY SOUND PROPAGATION AND APPLICATION TO ACOUSTIC DETERMINATION OF MEAN TEMPERATURE
ERDA-112 N64-17438 09-21

PROPAGATION OF PRESSURE WAVES IN LIQUID HYDROGEN VAPOR MIXTURE
NASA-CR-54015 N64-23148 16-26

SOUND PROPAGATION AND PLANE WAVE SCATTERING BY INFINITE NONRIGID STRIP IN INFINITE RIGID PLANE BAFFLE
TRG-142-TN-64-1 N64-24225 16-23

SOUND PROPAGATION IN SHIP HULL STRUCTURES AND DESIGN FOR NOISE REDUCTION N64-24581 17-34

ERRORS IN ULTRASONIC SOUND PROPAGATION PARAMETER MEASUREMENTS
NRL-6026 N64-25498 17-23

SOUND WAVE PROPAGATION IN GAS SATURATED POROUS MEDIUM HAVING RIGID SHELL N64-27987 20-23

PROPAGATION OF FREE SOUND WAVES IN RAREFIED GAS DYNAMICS
REPT.-562/07/-58 N64-29815 21-11

SOUND INTENSITY AND PRESSURE LEVELS
NASA-TM-X-53035 N64-30049 21-23

PROPAGATION OF SOUND IN UPPER ATMOSPHERE - WAVE EQUATION FOR ACOUSTIC POINT SOURCE IN MEDIUM WITH VELOCITY PROFILE LINEAR WITH ALTITUDE
S-583 N64-31089 22-23

SOUND PROPAGATION IN SHADOW ZONE AND MEASUREMENTS OF SOUND ADSORPTION & VELOCITY AND HIGH ATMOSPHERE TEMPERATURE
AD-447807 N64-32120 23-23

RADIATIVE PROPERTIES OF ATMOSPHERIC GASES AND RADIATIVE ABSORPTION OF SOUND N64-32261 23-23

ATMOSPHERIC AND TERRAIN EFFECTS ON ACOUSTIC PROPAGATION N64-32263 23-23

SOUND WAVE
CF AUDIOFREQUENCY
PHASE DISTORTION OF REFLECTED SINE WAVE ACOUSTIC PULSES IN FLUID MEDIA AT GRAZING ANGLES
RM-152 N64-10071 01-23

DIFFRACTION OF PLANE SOUND WAVES BY ACOUSTICALLY PENETRABLE OBLATE SPHEROID
USCEC-82-213 N64-11449 03-23

DISPLACEMENT OF DEFORMABLE BODY BY NONSTATIONARY SOUND WAVE IN VISCOUS FLUID
JPRS-22344 N64-11916 03-23

PROPAGATION OF ELECTROACOUSTIC WAVES IN DENSE DEGENERATE PLASMA
AFCRL-63-899 N64-12019 03-24

ELECTRON-EXCHANGE CORRECTION TO SOUND-WAVE DISPERSION RELATION IN METALS
NASA-CR-53035 N64-13406 04-25

ELECTROACOUSTIC TEMPERATURE-FREQUENCY CONVERTER
FTD-MT-63-99/1626364 N64-14382 06-09

COMPUTER FOR MEASURING DIRECTIVITY FACTOR FOR ELECTROACOUSTIC TRANSDUCERS
NEL-1196 N64-14635 06-15

SPECTRAL OBSERVATION OF VOCAL SOUND WAVES AND WAVE FILTERING PROCESSES OF TRACHEAL OUTER WALL

E-T-J-63-6 N64-14675 06-16

ABSORPTION OF SHORT WAVELENGTH SOUND WAVES BY SOLIDS
E-T-G-63-24 N64-15372 07-23

PULSED HYPERSONIC EXCITATION AND ATTENUATION MEASUREMENTS IN QUARTZ AT LOW TEMPERATURES
AFCRL-63-564 N64-15585 07-19

PROPAGATION AND ATTENUATION OF ACOUSTIC WAVES IN LUNAR SURFACE
NASA-CR-55413 N64-15896 07-29

SOUND WAVE SCATTERING BY TURBULENT ATMOSPHERE
FTD-TT-63-441/1&2&4 N64-16369 08-23

COUPLING OF MAGNETOHYDRODYNAMIC WAVES TO ELECTROMAGNETIC & ACOUSTIC WAVES AT PLASMA-NEUTRAL GAS INTERFACE
AFCRL-63-944 N64-17450 09-24

VARIATIONAL SOLUTION TO SOUND WAVE IN SOLID CYLINDRICAL RADIATION SOURCE OF FINITE LENGTH
U-177-48 N64-18266 10-23

ACOUSTIC EFFECTS OF MARINE ORGANISMS ON SOUND-SCATTERING LAYERS
JPRS-24274 N64-18970 11-23

DISPERSAL OF SOUND WAVES BY RADIATIVE HEAT TRANSFER IN HOT GAS
CAL-AF-1285-A-11 N64-19409 12-23

ACOUSTIC WAVE AMPLIFICATION, OPTICAL MASERS, FERRITE NONLINEAR PROPAGATION, AND INTERACTIONS OF ELECTRON BEAM AND PLASMA
ML-1122 N64-20399 13-23

COUPLING OF SOUND AND PANEL VIBRATION BELOW CRITICAL FREQUENCY
NASA-CR-53605 N64-20733 13-23

CONTRIBUTION OF AERODYNAMICALLY PRODUCED ATMOSPHERIC ACOUSTIC WAVES TO HEATING OF POLAR NIGHT MESOSPHERE
NASA-RP-181 N64-21305 14-12

ACOUSTIC EMISSION UNDER APPLIED STRESS
ASD-TR-63-509, PT. 2 N64-21502 15-23

EXPRESSIONS FOR COEFFICIENT OF SPATIAL AUTOCORRELATION OF AMPLITUDE AND PHASE FROM STATISTICALLY ROUGH SURFACE N64-23791 16-08

CONVERSION OF INTEGRAL EQUATION FOR PRESSURE DISTRIBUTION ON CIRCULAR DISC IN AXISYMMETRIC SOUND WAVE INTO SINGULAR INTEGRAL EQUATION
EM-188 N64-23878 16-23

MICROWAVE REGION ACOUSTIC WAVE AMPLIFICATION IN PIEZOELECTRIC SEMICONDUCTORS
ML-1148 N64-24224 16-25

EFFECT OF AUDIOFREQUENCY ACOUSTIC WAVES ON PNEUMATIC DIGITAL AMPLIFIERS N64-25268 17-15

ELECTROMAGNETIC SOUND WAVES FROM SKY
P-2894 N64-25888 18-29

REFLECTION OF SOUND WAVES FROM STATISTICALLY UNEVEN SURFACE IN PRESENCE OF SHADOWS N64-27159 19-08

MAGNETOHYDRODYNAMICS - EQUATIONS OF MOTION, GENERAL PROPERTIES, BOUNDARY VALUE PROBLEMS, SOUND WAVES, AND SHOCK WAVES
NASA-CR-58347 N64-28832 20-24

PROPAGATION OF FREE SOUND WAVES IN RAREFIED GAS DYNAMICS
REPT.-562/07/-58 N64-29815 21-11

PROPAGATION OF FORCED SOUND WAVES IN RAREFIED GAS DYNAMICS
REPT.-562/07/-59 N64-29816 21-11

ELECTROMAGNETIC & ELECTROACOUSTIC WAVE RADIATION IN PLASMA
AFCRL-64-473 N64-29833 21-24

SHOCK WAVE DISTURBANCES BY SOUND WAVES AND TEMPERATURE FLUCTUATIONS
ARC-CP-194 N64-32944 24-23

EFFECTS OF SOUND WAVES AND NUCLEIC ELEMENTS ON CELLS
JPRS-26712 N64-32954 24-16

INFLUENCE OF ULTRASONIC WAVES ON NUCLEIC ACIDS - RIBONUCLEIC ACID N64-32957 24-16

SPINOR SOLUTION OF SOUND WAVE IN ELECTRICALLY NEUTRAL GAS
NASA-TM-X-55085 N64-33561 24-23

SOUNDING
SA BALLOON SOUNDING
SA ROCKET SOUNDING
CF SONDE
SOVIET RESEARCH PAPERS ON GEOMAGNETIC FIELD MAGNETOTELLURIC SOUNDING AND PROFILING, AND EARTH DISTORTION OF ELECTRIC FIELD
JPRS-21641 N64-10162 01-12

ASSUMPTIONS AND ERRORS OF MAGNETOTELLURIC SOUNDING THEORY - GEOMAGNETIC MEASUREMENT N64-10165 01-12

EARTH STRUCTURE DETERMINED BY MAGNETOTELLURIC SOUNDING N64-16516 08-12

ALOUETTE TOPSIDE SOUNDINGS USED TO DETERMINE VARIATIONS OF ELECTRON DENSITY
NASA-CR-53820 N64-19309 12-32

HANDBOOK ON HIGH ALTITUDE VERTICAL-HORIZONTAL SOUNDING OF ATMOSPHERE IN IL-28 AIRCRAFT
FTD-TT-63-619/1&2 N64-21661 15-12

STRATOSPHERIC CIRCULATION DATA FROM ANALYSIS OF STRATOSPHERIC SOUNDINGS OBTAINED FROM METEOROLOGICAL ROCKET NETWORKS EXPLORATION
ERDA-156 N64-27865 19-21

SOUNDING ROCKET
SA AEROBEE ROCKET
SA ASTROBEE 1500 ROCKET
SA METEOROLOGICAL ROCKET
SA NIKE-APACHE ROCKET
SA NIKE-CAJUN ROCKET
SA NIKE ROCKET
ATMOSPHERIC AND METEOROLOGICAL RESEARCH - SOUNDING ROCKETS AND TRACKING ACTIVITIES FROM ARGENTINA AND PHILIPPINES
A/AC.105/11/ADD.3 N64-10434 01-01

TELEMETRY-TRAJECTORY SYSTEM - ALTITUDE VERSUS TIME DATA FROM UPPER-AIR SOUNDING ROCKETS
AFCRL-63-778 N64-12613 04-30

ENVIRONMENT SIMULATION OF PAYLOADS FOR SOUNDING ROCKETS AND UNMANNED SPACECRAFT
NASA-TN-D-1916 N64-12713 04-30

SPACE EXPLORATION - BALLOONS, SOUNDING ROCKETS, SATELLITES, TRACKING & TELEMETRY STATIONS, & SUPPORTING ACTIVITIES N64-13450 05-01

EQUATORIAL ELECTROJET INVESTIGATION BY SOUNDING ROCKETS WITH MAGNETOMETER N64-14415 06-12

OPTICAL STATIC-SPLIT RECEIVER FOR LUNAR TRACKERS IN SATELLITES AND SOUNDING ROCKETS N64-15476 07-15

PARTICLE SAMPLING FROM NOCTILUCENT CLOUDS USING SOUNDING ROCKETS N64-15558 07-21

WIND MEASUREMENT & IMPACT PREDICTION FOR UNGUIDED SOUNDING ROCKETS
NASA-TN-D-2142 N64-15972 07-30

ULTRAHIGH PRESSURE EFFECT ON STEEL, ATOMIC OXYGEN IN UPPER ATMOSPHERE, AND SOUNDING ROCKET STUDIES
FTD-TT-63-674/1 N64-16960 09-23

DIURNAL VARIATIONS OF STRATOSPHERIC DENSITY ABOVE

30 KILOMETERS USING METEOROLOGICAL SOUNDING ROCKET
ERDA-114 N64-17323 09-12

AERODYNAMIC RESEARCH OF ARCHER SOUNDING ROCKET
NOLTR-63-144 N64-18034 10-32

WAKE GENERATOR EVALUATION USING SOUNDING ROCKET PAYLOADS
TDM-W-11,774, REV. 2 N64-18351 10-32

RADIO TELEMETRY FOR UPPER ATMOSPHERE SOUNDING ROCKETS
ERB-653 N64-18468 10-08

SOUNDING ROCKET, SATELLITE AND SPACE PROBE LAUNCHINGS, AND OBSERVATIONS - BIBLIOGRAPHY
N64-19319 12-32

PERFORMANCE OF NIKE-CAJUN SOUNDING ROCKET FOR THREE CASES OF DRAG COEFFICIENT INPUTS
NASA-TM-X-51614 N64-19450 12-32

EVAPORATIVE COOLING SHROUD FOR SOUNDING ROCKET NOSE CONE
BRL-1547 N64-21023 14-13

INSTRUMENTED HIGH ALTITUDE SOUNDING PROJECTILE FOR ATMOSPHERIC TEMPERATURE AND WIND VELOCITY DETERMINATION
NOLTR-63-272 N64-21181 14-32

TECHNIQUES AND EQUIPMENT FOR AIR LAUNCHED ROCKET SOUNDING SYSTEM
AFCRL-64-127 N64-21445 14-32

INFRARED PHYSICS - ATMOSPHERIC CONSTITUENTS EFFECT ON INFRARED TECHNIQUES USED IN AEROSPACE SYSTEMS
REPT.-4-WGP-80-3-1 N64-21492 14-21

FLIGHT VIBRATION DATA OF AEROBEE 150A SOUNDING ROCKET
NASA-TN-D-2314 N64-23025 16-04

ROCKET INVESTIGATIONS OF UPPER ATMOSPHERE AND OUTER SPACE N64-23215 16-12

NIKE-APACHE SOUNDING ROCKET - TRAJECTORY ANALYSIS
NASA-RP-224 N64-23334 16-04

METEOROLOGICAL ROCKET SOUNDINGS IN STRATOSPHERE AND MESOSPHERE
NASA-SP-49 N64-23869 16-21

ROCKET SOUNDINGS IN MESOSPHERE N64-23872 16-21

SPECIFICATIONS AND PERFORMANCE DATA ON SMALL PROBE VEHICLES AND SOUNDING ROCKETS
ORA-63-14 N64-24117 16-32

ROCKET SPECTROPHOTOMETER AIRGLOW MEASUREMENTS IN FAR ULTRAVIOLET
NASA-TN-D-2362 N64-24819 17-12

METEOROLOGICAL DATA GATHERED FOR LAUNCHING OF NIKE-APACHE ROCKET
ERDA-123 N64-25251 17-21

METEOROLOGICAL DATA FOR NIKE-APACHE ROCKET LAUNCH
ERDA-133 N64-25504 17-21

METEOROLOGICAL DATA FOR LAUNCHING OF NIKE-APACHE SPEEDBALL II
ERDA-135 N64-25517 17-21

GROUND AND FLIGHT SAFETY OF SOUNDING ROCKET LAUNCH FROM EQUATORIAL RANGE N64-26794 18-10

UPPER ATMOSPHERIC WIND DETERMINATION USING SODIUM AND LITHIUM VAPORS EJECTED FROM SOUNDING ROCKET
NASA-CR-58206 N64-27273 19-12

EFFECTS OF WINDS ON SOUNDING ROCKET FLIGHT PATH
CARDE-TN-1613/64 N64-29355 21-33

SOLAR ASPECT SENSOR FOR SOUNDING ROCKETS - PHOTOVOLTAIC DEVICE
NASA-CR-58844 N64-33166 24-15

ELECTRON DENSITY PROFILES FOR QUIET DAY MID-LATITUDE D REGION USING NIKE-APACHE SOUNDING ROCKETS
NASA-TM-X-55075 N64-33558 24-12

SOUNDING ROCKET DATA ON INFRARED SPECTRAL RADIANCE OF NIGHT HORIZON AND SKY
NAVWEPS-8552 N64-33724 24-12

SOURCE
S COHERENT SOURCE
S ELECTRON SOURCE
S ION SOURCE
S NEUTRON SOURCE
S POWER SOURCE
S RADIATION SOURCE
S RADIO SOURCE

SPACE
S BANACH SPACE
S CISLUNAR SPACE
S DEEP SPACE
S FREE SPACE
S HILBERT SPACE
S INTERPLANETARY SPACE
S INTERSPACE
S INTERSTELLAR SPACE
S VECTOR SPACE

SPACE CABIN
RATIO OF PURIFYING CIRCULATION FLOW TO BREATHING FLOW FOR MAINTAINING ACCEPTABLE CARBON DIOXIDE CONCENTRATION IN SPACE CABIN ATMOSPHERE
RAE-TM-ME-273 N64-13337 04-16

PROBLEMS OF PROVIDING ATMOSPHERE FOR SPACE CABIN - AIR CONDITIONING SYSTEMS
FTD-TT-62-1545/1 N64-15590 07-16

PRESSURE MEASUREMENTS FOR HYPERSONIC FLOW OVER WINGED REENTRY CONFIGURATION COMPOSED OF CABIN ON SWEPTBACK DELTA WING
RTD-TDR-63-4179, PT. 1 N64-18025 10-30

EFFECTS OF ATMOSPHERIC ENVIRONMENT ON ELECTRICAL FIRE HAZARDS N64-20748 14-26

FIRE AND FLASH HAZARDS FROM METEOROID PENETRATION OF SPACE CABIN N64-20749 14-16

FIRE PREVENTION AND EXTINGUISHMENT IN SPACE CABINS
N64-20750 14-26

RESISTANCE OF MICE TO RESPIRATORY INFECTION AFTER EXPOSURE TO ALTITUDE OF 35,000 FEET - SPACE CABIN ENVIRONMENT
SAM-TDR-64-9 N64-22506 15-16

FORMATION OF ARTIFICIAL ENVIRONMENT IN SPACESHIP CABIN N64-23739 16-16

REGENERATION OF WATER IN SPACESHIP CABIN
N64-23743 16-16

ENVIRONMENT OF SPACESHIP CABIN OR ORBITAL STATION
N64-23745 16-16

PHYSICOCHEMICAL SYNTHESIS OF CARBOHYDRATES IN SPACESHIP CABIN N64-23774 16-16

ENVIRONMENTAL TOXICITY OF SPACE CABIN ATMOSPHERE
N64-24616 17-16

MULTIFILTER SYSTEM FOR RECOVERING POTABLE AND WASH WATER FROM CABIN AIR DEHUMIDIFIERS
N64-28949 20-16

SPACE CABIN ATMOSPHERE
CF CLOSED ECOLOGICAL SYSTEM
FIRE AND BLAST HAZARDS IN SPACE CABIN ATMOSPHERES
NASA-SP-48 N64-20744 14-26

ENVIRONMENTAL FACTORS IN SPACE CABIN FIRE HAZARD - IGNITION AND FLAME PROPAGATION N64-20745 14-26

EFFECTS OF SPACE CABIN ATMOSPHERE ON FLAMMABILITY OF LIQUIDS AND GASES N64-20747 14-26

ROLE OF FIRE AND BLAST HAZARDS IN SELECTION OF SPACE CABIN ATMOSPHERE N64-20751 14-26

ENVIRONMENTAL TOXICITY OF SPACE CABIN ATMOSPHERE
N64-24616 17-16

SPACE CABIN ATMOSPHERES - PHYSICAL AND PHYSIOLOGICAL VARIABLES
N64-30345 22-16

SPACECRAFT ENVIRONMENTAL SYSTEMS
N64-30729 22-16

SPACE CABIN ATMOSPHERES - HIGH OXYGEN TENSION IN ANIMALS AND HUMANS, OXYGEN TOXICITY, AND DRUG THERAPY
NASA-SP-47 N64-31219 22-16

SPACE CABIN SIMULATION
MOLECULAR KINETICS AND FLUX LEVELS IN SPACE SIMULATION CABINS
AEDC-TDR-64-186 N64-33113 24-10

SPACE CABIN SIMULATOR
ORAL HYGIENE TECHNIQUES FOR SPACE CABIN SIMULATOR FLIGHTS
SAM-TDR-62-110 N64-10558 01-16

BEHAVIORAL TESTING IN SIMULATED SPACE CABIN DURING SEVEN-DAY CONFINEMENT - DATA PROCESSING
NASA-TN-D-1973 N64-11548 03-14

POTABLE WATER PRODUCTION BY VACUUM DISTILLATION IN TWO-MAN SPACE CABIN SIMULATOR
SAM-TDR-63-60 N64-12246 03-16

MICROORGANISM TRANSMISSION BETWEEN TWO HUMAN BODIES IN SIMULATED SPACE CABIN
SAM-TDR-64-3 N64-21595 15-16

ATMOSPHERIC MONITORING OF CONTAMINANTS IN SPACE CABIN SIMULATOR
N64-24624 17-15

COMPACT ELECTRICAL-MECHANICAL DEVICE FOR CONTROL OF OXYGEN-NITROGEN CONCENTRATION OF ATMOSPHERE WITHIN SPACE CABIN SIMULATOR
AMRL-TDR-64-25 N64-29838 21-06

SPACE CAPSULE
PROPELLED CAPSULE APPROACH FOR MARINER B SPACECRAFT USING DATA FOR MARS TRAJECTORY
NASA-CR-52535 N64-10902 02-29

THERMAL INSULATOR FOR MERCURY CAPSULE
A261 N64-13252 04-13

WATER IMPACT OF MERCURY CAPSULE - CORRELATION OF ANALYSIS WITH TEST DATA
NASA-CR-55251 N64-13401 04-32

TECHNIQUES FOR INPILE CAPSULE TRANSIENT HEATING EXPERIMENTS IN ORGANIC REACTORS
NAA-SR-9009 N64-14925 06-23

RADIATION DOSIMETRY ABOARD MERCURY /MA-8/ SPACECRAFT
NASA-TN-D-1862 N64-28320 20-16

EFFECT OF OXYGEN-ENRICHED CAPSULAR ENVIRONMENT ON BURNING RATE OF CLOTHING
NADC-ML-6408 N64-29855 21-26

SHIELDING AND WEIGHT FRACTIONS OF NUCLEAR PROPULSION SYSTEM FOR MANNED CAPSULES
NASA-CR-52964 N64-33133 24-27

IRRADIATION CAPSULES FOR REACTOR FUEL EVALUATION - SYMPOSIUM
TID-7697 N64-33916 24-10

SPACE CHARGE
SPREADING OF CIRCULAR ELECTRON BEAM IN ACCELERATING FIELD UNDER SPACE-CHARGE REPULSION
LL-TR-308 N64-12930 04-09

MOLECULAR FLOW IN ELECTRON BOMBARDMENT ION CHAMBER AND ANALYSIS OF SPACE CHARGE FLOW IN ION ACCELERATION
AIAA PAPER-64-7 N64-15303 07-27

SPACE CHARGE AND HYDROMAGNETIC INSTABILITIES IN AURORAL ARC DEFORMATIONS
N64-20674 13-12

SPACE CHARGE SHEATHS - MAGNETIC FIELDS, IONIC WAVES, AND RELATED PLASMA PHYSICS
EUR-495.I N64-21114 14-24

FIELD EFFECT TRIODES AND SPACE CHARGE LIMITED TRIODES
REPT.-4 N64-25514 17-09

THERMOELECTRIC CONVERSION SYSTEM - MAGNETIC FIELD EFFECT, SPACE CHARGE EFFECT, AND ALTERNATING VOLTAGE GENERATION
FTD-TT-64-528/1&2 N64-26163 18-06

MAGNETIC FIELD EFFECTS ON COMPENSATION OF SPACE CHARGE OF ION BEAM BY ELECTRONS
FTD-TT-64-619/1&2&4 N64-26719 18-24

EFFECT OF INITIAL VELOCITY ON ONE-DIMENSIONAL, AMBIPOLAR, SPACE-CHARGE CURRENTS
NASA-TN-D-2425 N64-26839 18-11

NONLINEAR SPACE CHARGE WAVE PROPAGATION ALONG VELOCITY MODULATED, CONFINED, SOLID ELECTRON BEAM OF FINITE RADIAL EXTENSION
RADC-TDR-64-367 N64-30700 22-09

COMPENSATION OF ION BEAM SPACE CHARGE BY ELECTRONS IN HIGH VACUUM MAGNETIC FIELD
NASA-TT-F-8963 N64-30856 22-24

SPACE COMMUNICATION
GIANT-APERTURE ANTENNAS FOR SPACE COMMUNICATION AND DETECTION
AFCRL-63-51 N64-11760 03-08

SPACE COMMUNICATIONS & PASSIVE SATELLITES - INSTRUMENTATION DEVELOPMENT
RADC-TDR-63-611, SUPPL. 1 N64-14350 06-15

USING LASER BEAMS FOR SPACE COMMUNICATION
FTD-TT-62-721/1&2 N64-15686 07-08

LASERS FOR SPACE COMMUNICATION
NASA-CR-55814 N64-16711 08-25

SPACE COMMUNICATION - ELECTROMAGNETISM, INFORMATION THEORY, MAGNETOSPHERE, & PLASMA WAVES
NASA-CR-53170 N64-17194 09-08

ELECTROMAGNETISM AND ANTENNAS FOR SPACE COMMUNICATIONS
N64-17195 09-23

MESSAGE CODING, SIGNAL FILTERING, AND INFORMATION THEORY FOR SPACE COMMUNICATIONS
N64-17196 09-08

WAVE PROPAGATION PROBLEMS AND SPACE COMMUNICATIONS
N64-17197 09-20

MAGNETOSPHERE CHARACTERISTICS AND EFFECTS ON SPACE COMMUNICATIONS
N64-17198 09-12

QUANTUM THEORY, ENTROPY, AND SPACE COMMUNICATIONS
N64-17199 09-08

DECISION MAKING, COMMUNICATION THEORY, AND SPACE COMMUNICATIONS
N64-17200 09-08

MILLIMETER WAVES FOR RADIO TRACKING AND SPACE COMMUNICATIONS
N64-17201 09-23

PLASMA WAVES AND SPACE COMMUNICATIONS
N64-17202 09-24

OPTICAL SPACE COMMUNICATION SYSTEM - PERFORMANCE OF PHOTOMULTIPLIERS AND LASER PROPAGATION
NASA-CR-53467 N64-18132 10-08

SIGNAL DETECTION, LASER BEAM PROPAGATION, AND SCATTERING STUDIES IN OPTICAL SPACE COMMUNICATION
NASA-CR-53466 N64-18133 10-11

OPTICAL COMMUNICATION IN SPACE - DATA TRANSMISSION SYSTEMS
NASA-CR-53581 N64-18442 10-08

SPACE RADIO SYSTEMS FACILITY USING MILLIMETER WAVELENGTH REGION - PLANNING & CONSTRUCTION OF ANTENNA AND PERIPHERAL COMPONENTS

SSD-TDR-63-294 N64-18653 11-09

HETERODYNE DEEP SPACE OPTICAL COMMUNICATION SYSTEM
NASA-CR-53636 N64-19990 12-08

ANTENNAS AND SIGNAL DETECTION IN SPACE COMMUNICATIONS
ESD-TDR-64-40 N64-20372 13-08

SPACE COMMUNICATIONS FACILITY
JPRS-24897 N64-21283 14-08

DEEP SPACE OPTICAL COMMUNICATIONS SYSTEM
N64-22447 15-08

SPACE COMMUNICATION
QPR-1 N64-26677 18-08

REENTRY VOICE COMMUNICATION SYSTEM FOR USE IN CONJUNCTION WITH RADAR TRACKING EQUIPMENT
NASA-CR-74 N64-26705 18-08

LASER DEEP SPACE /INTERPLANETARY/ COMMUNICATION SYSTEM N64-31014 22-08

HIGH PERFORMANCE NOISE-CANCELLING MICROPHONE FOR SPEECH COMMUNICATIONS IN SPACE - SPEECH TRANSMISSION AND HELMET COMFORT
CLD-1707 N64-31933 23-08

SPACE PROGRAM - SYSTEMS ANALYSIS, GUIDANCE AND CONTROL, ENGINEERING FACILITIES, PROPULSION, AND COMMUNICATIONS
NASA-CR-58944 N64-32992 24-10

SPACE DENSITY
S ATMOSPHERIC DENSITY

SPACE ELECTRIC ROCKET TEST /SERT/
SPACE ELECTRIC ROCKET TEST /SERT/ AND EARLY ELECTRIC PROPULSION SYSTEMS
NASA-RP-190 N64-22068 15-27

SPIN STABILIZATION AND ION THRUSTOR ENGINES FOR SPACE ELECTRIC ROCKET TEST /SERT/ SPACECRAFT
N64-24594 17-32

DESCRIPTION AND OPERATION OF SPACECRAFT IN SPACE ELECTRIC ROCKET TEST /SERT/ THRUSTOR FLIGHT TEST
NASA-TM-X-52050 N64-28074 20-32

SPACE ENVIRONMENT
SA EXTRATERRESTRIAL ENVIRONMENT
ADAPTATION OF HUMANS TO SPACE FLIGHT CONDITIONS, AND EFFECTS OF SPACE ENVIRONMENT ON MAN
N64-10146 01-16

EFFECTS OF SPACE ENVIRONMENT CONDITIONS ON MAN - SELECTION & TRAINING OF ASTRONAUTS, AND NUTRITION PROBLEMS
JPRS-21586 N64-10197 01-16

RADIATION MODELS FOR SPACE ENVIRONMENTAL HAZARD
N64-10614 01-28

ORBITAL ELEMENT, POWER LEVEL OF SATELLITE SIGNAL, & ELECTRICAL CIRCUIT BEHAVIOR OF TELSTAR SATELLITE IN SPACE ENVIRONMENT N64-10894 02-29

SPECTRAL NORMAL EMITTANCE OF MATERIALS UNDER SIMULATED SPACE ENVIRONMENT N64-10959 02-13

HEMISPHERICAL EMITTANCE OF STRUCTURAL MATERIALS & COATINGS UNDER SIMULATED SPACECRAFT CONDITIONS OVER WIDE TEMPERATURE RANGE N64-10962 02-13

THERMAL SCALE MODELING TECHNIQUES FOR SPACECRAFT ENVIRONMENTAL SIMULATION TESTING
NASA-CR-52598 N64-11078 02-02

LIFE SCIENCES AND SPACE ENVIRONMENT
N64-11647 03-01

EFFECT OF SPACE VEHICLE FLIGHT DYNAMICS, AMBIENT SPACE, AND SPACECRAFT ENVIRONMENT ON EARTH ORGANISMS - SPACE BIOLOGY N64-11666 03-29

SPACE ENVIRONMENT EFFECT ON RELIABILITY OF EQUIPMENT, COMPONENTS, AND MATERIALS
N64-12354 03-09

SPACECRAFT LUBRICATION PROBLEMS WITH SPECIFIC APPLICATIONS TO RANGER, MARINER, & SURVEYOR PROGRAMS
NASA-CR-53034 N64-13405 04-17

THERMAL CONTROL IN SPACE ENVIRONMENT - DESIGN AND RELIABILITY CONSIDERATIONS
NASA-CR-55279 N64-14180 06-16

FRICTION AND BEARING PROBLEMS IN VACUUM AND RADIATION ENVIRONMENTS OF SPACE
N64-15235 07-17

HYGIENIC PROBLEMS IN RADIOACTIVE CONTAMINATION OF OUTER SPACE
JPRS-23284 N64-15397 07-16

EFFECTS OF SPACE ENVIRONMENT ON PLANTS & HUMANS
FTD-TT-62-1609/1 N64-16053 07-14

LIFE IN SPACE ENVIRONMENT, COSMIC RADIATION, & MANNED SPACEFLIGHT REPORTS
FTD-TT-62-1518/1&2 N64-16351 08-01

LIFE AND SPACE ENVIRONMENT, AND TEST OF RELATIVITY THEORY N64-16353 08-16

DETECTION AND MEASUREMENT OF COSMIC RADIATION IN SPACE N64-16354 08-28

STABILITY OF WHITE SURFACE COATINGS FOR THERMO-REGULATION IN SPACE ENVIRONMENT
NASA-CR-53086 N64-16741 08-19

THERMAL DEGRADATION OF POLYMERIC MATERIALS IN SPACE ENVIRONMENT
NASA-CR-55846 N64-16769 08-19

SPACE ENVIRONMENT EFFECTS ON STORED HUMAN BLOOD IN EARTH ORBIT
SSD-TDR-64-1 N64-19184 11-16

WEIGHT LOSS OF VOLATILE SOLIDS IN SPACE ENVIRONMENT N64-19361 12-19

METHODS OF EVALUATION OF INFLATABLE STRUCTURES FOR SPACE APPLICATIONS N64-19370 12-34

INSULATED WIRE CONDUCTOR SYSTEMS FOR SPACE ENVIRONMENT
NASA-CR-53815 N64-19613 12-19

ROTATING FLUID RING SEALS FOR HIGH SPEED SHAFTS IN SPACE - ELECTRON BEAM WELDING OF REX 49 STEEL
AD-429211 N64-19779 12-17

SMALL VERSATILE ENVIRONMENT SIMULATOR FOR AEROSPACE MEDICINE STUDIES
AMRL-TDR-64-6 N64-19816 12-10

EFFECTS OF SPACE ENVIRONMENT ON DIELECTRIC PROPERTIES - VACUUM, X-RAY IRRADIATION, AND TEMPERATURE
NASA-CR-53878 N64-19824 12-23

COHESION OF CLEAN METAL SURFACES IN SPACE ENVIRONMENT - FRACTURE-REJOIN EXPERIMENTAL TECHNIQUE AND COHESION DATA FOR COPPER AND STEEL
N64-19881 12-25

MATERIALS FOR AEROSPACE VEHICLES - PRIMARY AND SECONDARY STRUCTURE, ENVIRONMENTAL PROTECTION, ENERGY, ELECTRONICS, & SEALING SYSTEMS
ASD-TDR-63-688 N64-19972 12-19

SPACE ENVIRONMENT AND HIGH FREQUENCY EFFECTS ON BREAKDOWN STRENGTHS OF DIELECTRIC MATERIALS
NASA-CR-56034 N64-20605 13-13

HERMETICALLY SEALED TANTALUM FOIL ELECTROLYTIC CAPACITORS FOR OPERATION IN SPACE ENVIRONMENT
AD-430355 N64-21325 14-09

AEROSPACE ENVIRONMENT SIMULATION SYSTEM
ESD-TDR-63-659, VOL. 1 N64-21342 14-20

MODIFICATION OF SUPERSONIC FLOW FIELDS UNDER NEAR

SPACE CONDITIONS BY CRYOPUMPING
AEDC-TDR-64-66 N64-21717 15-13

EFFECT OF SIMULATED SPACE ENVIRONMENTS ON VIABILITY OF MICROORGANISMS
NASA-CR-50333 N64-22752 16-16

GENETIC STUDIES IN SPACE ENVIRONMENTS
NASA-CR-55359 N64-22767 16-16

BIOLOGY IN PLANETARY & SPACE ENVIRONMENTS - AMINO ACID AND PROTEINOID STUDIES
NASA-CR-50483 N64-22775 16-16

LIFE SUPPORT IN SPACE ENVIRONMENT
NASA-TM-X-51744 N64-22784 16-16

EFFECTS OF SIMULATED SPACE ENVIRONMENTS ON VIABILITY OF MICROORGANISMS
NASA-CR-56524 N64-22785 16-16

EFFECT OF SIMULATED SPACE ENVIRONMENT ON VIABILITY OF MICROORGANISMS - ULTRAVIOLET RADIATION EFFECT
NASA-CR-56525 N64-22786 16-16

INFRARED AND ULTRAVIOLET RADIATION FOR RIGIDIZING INFLATABLE SPACE STRUCTURES N64-23717 16-19

FUTURE RECOMMENDATIONS FOR EXPANDABLE STRUCTURES FOR SPACE APPLICATION N64-23731 16-30

FABRICATION OF SOLAR ENERGY COLLECTOR FOR USE IN SPACE ENVIRONMENT
NASA-CR-56457 N64-24051 16-31

PERFORMANCE OF SEATED HUMAN BODY IN SPACE ENVIRONMENT N64-24343 17-16

TECHNIQUES FOR MEASURING TEMPERATURE, PRESSURE, DENSITY, AND WIND VELOCITY ONBOARD LARGE LAUNCH VEHICLE IN SPACE ENVIRONMENT N64-24906 17-21

SHOCK AND VIBRATION IN SPACE ENVIRONMENT BIBLIOGRAPHY
SB-63-24 N64-24920 17-02

SPACE ENVIRONMENT EFFECTS ON ORGANIC MATERIALS, MECHANICAL DEVICES, AND ELECTRONIC EQUIPMENT
RSIC-1511 N64-25218 17-29

HEAT ABSORPTION CAPABILITY OF CRYOGENIC SHROUD IN SPACE ENVIRONMENT SIMULATOR
REPT.-00.482 N64-25276 17-13

BIOMEDICAL AND HUMAN FACTORS FOR MANNED EARTH ORBITING STATION
NASA-CR-56021 N64-25950 18-14

GEMINI PROGRAM TO STUDY MANNED SPACECRAFT OPERATIONS IN SPACE ENVIRONMENT
NASA-RP-239 N64-26038 18-32

COSMIC RADIATION AND NEAR EARTH SPACE ENVIRONMENT - BIBLIOGRAPHY
SB-63-71 N64-26822 18-28

FLIGHT EXPERIMENT TO DETERMINE EFFECTS OF SPACE ENVIRONMENT ON PERFORMANCE OF SOLAR CONCENTRATOR REFLECTIVE SURFACE
NASA-CR-55893 N64-27870 20-06

ENGINEERING DESIGN OF SPACE RADIATION EFFECTS LABORATORY N64-28164 20-10

MEASUREMENT AND SIMULATION OF SPACE ENVIRONMENT - NASA CONFERENCE
NASA-TM-X-55015 N64-28201 20-23

SPACE-STABLE THERMAL CONTROL COATINGS WITH LOW SOLAR ABSORPTANCE-EMITTANCE RATIOS
NASA-CR-58706 N64-29507 21-19

FRICTIONAL PROBLEMS IN SPACECRAFT MECHANISMS CAUSED BY SPACE ENVIRONMENTS
NASA-CR-58704 N64-29508 21-17

THERMAL CONTROL COATINGS FOR SPACE ENVIRONMENT
NASA-CR-58814 N64-30524 22-17

TELEVISION EQUIPMENT DESIGNED TO OPERATE UNDER SPACE ENVIRONMENTAL CONDITIONS
FTD-TT-64-18/1 N64-30812 22-08

THERMAL VACUUM TEST OF ORBITAL STATIC MOISTURE-REMOVAL FUEL CELL
APL-TDR-64-72 N64-30921 22-06

ANNOTATED BIBLIOGRAPHY ON COMBINED EFFECTS OF SPACE ENVIRONMENTAL PARAMETERS UPON SATELLITE SYSTEMS AND COMPONENTS
REPT.-3-35-64-3 N64-31117 22-28

EUROPEAN SPACE PROGRAM - ENVIRONMENTAL CONDITIONS OF SPACE VEHICLE FROM MANUFACTURE TO ORBITAL LAUNCH - DIAMANT AND ELDO LAUNCHERS
MEMO-2 N64-31350 23-10

EQUATIONS FOR PREDICTING KINETIC TEMPERATURE OF AEROSPACE ENVIRONMENT FROM 100 TO 60,000 KILOMETERS ABOVE EARTH SURFACE
NASA-TM-X-53104 N64-31550 23-12

CARRIER ROCKETS, INTERPLANETARY FLIGHTS, LIFE SUPPORT, MANNED SPACE FLIGHT, AND SPACE ENVIRONMENT HAZARDS
FTD-MT-64-227 N64-31774 23-29

APPLICATION OF STORABLE PROPELLANTS TO SPACE FLIGHT - PROPELLANT REQUIREMENTS AND SPACE ENVIRONMENTAL FACTORS N64-32052 23-26

RADIO TRACKING SYSTEM TEST PLAN FOR FLIGHT INVESTIGATION OF REENTRY ENVIRONMENT FOR ATLAS LAUNCH VEHICLE
REPT.-64A240 N64-32149 23-08

HIGH TEMPERATURE LUBRICANTS FOR ROLLER BEARINGS USED IN SPACE ENVIRONMENT
AD-449772 N64-32661 23-17

PHOTOVOLTAIC STANDARD CELLS CALIBRATED TO SPACE CONDITIONS N64-32738 24-06

DIELECTRIC FIBER OPTICAL SYSTEM FOR SPACE APPLICATION
NASA-CR-59183 N64-32996 24-23

OPERATIONAL PROBLEMS OF SILVER-CADMIUM BATTERY UNDER SPACE ENVIRONMENT
NASA-CR-57014 N64-33107 24-06

RESPIROMETER AND LIFE SUPPORT SYSTEM FOR POTATO SPECIMEN IN SPACE ENVIRONMENT
NASA-CR-58945 N64-33189 24-16

HIGH POWER MICROWAVE AMPLIFIERS FOR OPERATION IN SPACE ENVIRONMENT - EFFECTS OF VACUUM, RADIATION, TEMPERATURE, AND MICROMETEOROIDS
RADC-TDR-64-201 N64-33545 24-09

SPACE-CALIBRATED PHOTOVOLTAIC STANDARD CELLS FOR EXTRAPOLATION OF SHORT-CIRCUIT CURRENT OF PHOTOVOLTAIC SYSTEMS TO SPACE ENVIRONMENT
NASA-CR-59359 N64-33773 24-06

SPACE ENVIRONMENT LUBRICATION
ADAPTATION OF MOLYBDENUM SULFIDE IN SITU PROCESS FOR LUBRICATING SPACECRAFT MECHANICAL COMPONENTS N64-19364 12-17

FRICTIONAL PROBLEMS IN SPACECRAFT MECHANISMS CAUSED BY SPACE ENVIRONMENTS
NASA-CR-58704 N64-29508 21-17

SURVEY OF RESEARCH CONDUCTED ON PROBLEMS OF SPACE ENVIRONMENTAL LUBRICATION
FL-210/48 N64-30495 22-17

SPACE ERECTABLE STRUCTURE
DESIGN, CONSTRUCTION, & OPERATION OF SCALE MODEL SELF-DEPLOYING SPACE STATION
NASA-CR-52907 N64-11728 03-32

DEVELOPMENT OF SPACE STATION, SOLAR COLLECTOR, CRYOGENIC STORAGE TANK, AND ANTENNA FOR ELASTIC RECOVERY OF SPACE EXPANDABLE STRUCTURES
NASA-CR-55022 N64-11817 03-34

ZERO-GRAVITY ERECTION SIMULATION OF SATELLITE APPENDAGES
NASA-TM-X-937 N64-12874 04-10

FEASIBILITY OF LARGE FOLDING BOOMS FOR SPACECRAFT APPLICATIONS
NASA-TM-X-941 N64-12875 04-06

UNFURLABLE DESIGNS AND TECHNIQUES FOR AUTOMATIC ERECTION OF ANTENNAS IN SPACE
TSC-63-ESL-21 N64-15079 07-09

SELF-RIGIDIZING UNFURLABLE ANTENNA SYSTEM FOR SPACE N64-15080 07-09

EXTENDIBLE BOOM SYSTEM FOR SPACE VEHICLES
NASA-CR-55578 N64-16113 07-06

RIGIDIZED INFLATABLE PARABOLIC SOLAR ENERGY COLLECTOR
NASA-CR-55733 N64-16333 08-06

UNFURLABLE ANTENNAS FOR SPACE APPLICATIONS - HIGH GAIN CASSEGRAIN ANTENNA WITH SPHERICAL REFLECTOR
TSC-63-ESD-19 N64-21327 14-09

EXPANDABLE STRUCTURE TECHNOLOGY APPLIED TO SEALING CONCEPTS AND SELF-REGULATING PNEUMATIC SYSTEMS N64-23727 16-34

INFLATABLE STRUCTURE AND CONE-AND-COLUMN TYPES OF SOLAR CONCENTRATORS, AND RIGIDIZATION METHODS FOR USE IN SPACE
AIAA PAPER-64-733 N64-28409 20-06

SPACE EXPLORATION
SA LUNAR EXPLORATION
ADMINISTRATIVE ASPECTS OF SPACE RESEARCH AND EXPLORATION N64-11113 02-01

SATELLITE ASPECTS OF SPACE EXPLORATION PROGRAMS N64-11505 03-29

ORGANIZATION OF NASA AND OFFICE OF MANNED SPACE FLIGHT TO ACCOMPLISH EXPLORATION OF SPACE N64-11780 03-01

MONTE CARLO METHODS FOR MATHEMATICAL AIR AND SPACE TRAVEL PROBLEMS
WGLR-6/1963 N64-11863 03-16

GLOSSARY OF TERMS USED IN SPACE EXPLORATION
NASA-TM-X-51299 N64-12087 03-01

OUTER SPACE EXPLORATIONS AND FLIGHTS OF VOSTOK V & VI SPACECRAFT
JPRS-22139 N64-12889 04-01

MARS-I SPACECRAFT FOR OUTER ATMOSPHERE STUDY & RADIO LOCATION OF MARS, VENUS, & MERCURY N64-12890 04-29

INTERPLANETARY & INTERSTELLAR SPACE EXPLORATION - TECHNICAL ASPECTS OF INTERPLANETARY FLIGHT N64-12911 04-29

SPACE EXPLORATION - BALLOONS, SOUNDING ROCKETS, SATELLITES, TRACKING & TELEMETRY STATIONS, & SUPPORTING ACTIVITIES N64-13450 05-01

SCIENTIFIC INSTRUMENTS IN SPACE EXPLORATION
NASA-CR-55314 N64-13914 05-29

ORBITING OBSERVATORIES FOR SPACE EXPLORATION
JPRS-22972 N64-14254 06-29

LIFE SUPPORT SYSTEMS FOR LONG DURATION SPACE EXPLORATION MISSIONS
NASA-RP-135 N64-15843 07-16

LOGISTICS OF SPACE EXPLORATION - TECHNOLOGICAL PROGRAM FOR DEVELOPING LUNAR AND PLANETARY SOURCES OF FUEL, FOOD, WATER, AND OXYGEN
P-2746 N64-16247 08-29

DESIGN PROBLEMS CONNECTED WITH CONSTRUCTION OF BASING FACILITIES ON MARS
P-2747 N64-16289 08-10

USE OF INFRARED INSTRUMENTS IN SPACE EXPLORATION
FTD-TT-63-444/1 N64-16422 08-23

POSSIBLE MISSIONS AND GUIDANCE REQUIREMENTS FOR ASTEROID PROBES
NASA-CR-53729 N64-19566 12-29

SURVIVAL OF TERRESTRIAL MICROORGANISM UNDER SIMULATED MARTIAN CONDITIONS N64-19583 12-99

X-15A HYPERSONIC AIRCRAFT AND APPLICATION TO SPACE EXPLORATION
NASA-RP-139 N64-20017 13-04

THOR LAUNCH VEHICLE SYSTEMS STUDY FOR SPACE EXPLORATION
SM-41860 N64-22008 15-31

RADIO-ENGINEERING METHODS EMPLOYED IN EXPLORATION OF IONOSPHERE - EVALUATION OF DATA FROM SPACE ROCKETS AND ARTIFICIAL SATELLITES
FTD-TT-62-464/1&2&3&4 N64-22153 15-32

MICROBIOLOGICAL AND CYTOLOGICAL STUDIES IN CONQUEST OF SPACE N64-23751 16-16

SPACE EXPLORATION
FTD-TT-63-1045/1 N64-23844 16-32

DISCOVERIES OF SOVIET ASTRONAUTS DURING MANNED SPACE FLIGHTS N64-23845 16-32

SPACE EXPLORATION OF VOSTOK I SPACECRAFT N64-23846 16-32

RELATION OF SPACE EXPLORATION TO ASTRONOMY N64-23847 16-32

HISTORICAL REVIEW OF SPACE EXPLORATION & GROWTH OF NASA N64-24956 17-29

SPACE EXPLORATION - UNITED STATES SPACE PROGRAM N64-24977 17-29

EXPLORATION OF VENUS ATMOSPHERE - MEASUREMENT OF PRESSURE, TEMPERATURE, DENSITY, AND CONSTITUENT GASES
NASA-TN-D-1909 N64-25075 17-32

SPACE EXPLORATION PROGRAMS & SPACE SCIENCE
NASA-CR-56727 N64-25677 17-01

SPACE EXPLORATION PROGRESS IN LUNAR AND PLANETARY-INTERPLANETARY PROGRAMS, DEEP SPACE INSTRUMENTATION FACILITY /DSIF/, AND SPACE SCIENCE
NASA-CR-58546 N64-28972 20-32

IONOSPHERIC PHYSICS, RADIO PROPAGATION, AERONOMY, RADIO ASTRONOMY, AND SPACE RESEARCH N64-30765 22-12

SPACE EXPLORATION, USA AND USSR SPACE PROGRAMS, MILITARY APPLICATIONS, AND INTERNATIONAL LAW AND COOPERATION
AD-602915 N64-33342 24-01

NASA PROGRAM - PROGRESS AND GOALS IN SPACE N64-33371 24-01

SPACE EXPLORATION - OBSERVATIONS FROM COSMOS SATELLITES, MARS 1, AND VOSTOK SPACECRAFT
FTD-MT-63-345 N64-33704 24-28

SPACE FLIGHT
NERVOUS SYSTEM DATA - ANALYSIS OF HUMAN BEHAVIOR DURING SPACEFLIGHT N64-10757 02-16

TECHNICAL LITERATURE ON SIMULATION FOR AEROSPACE FLIGHT N64-10908 02-10

PILOT PERFORMANCE & TRAINING EVALUATION BY MISSION SIMULATION FOR LONG TERM SPACE FLIGHT N64-10910 02-30

SPACE FLIGHT BIOLOGICAL PROBLEMS - OVERLOADING, VIBRATION, WEIGHT, RADIATION, PRESSURE, ISOLATION, TEMPERATURE, AND FOOD
JPRS-20168 N64-11134 02-16

PSYCHOLOGICAL AND PHYSIOLOGICAL EFFECT OF SPACE FLIGHT ON ASTRONAUTS
JPRS-20171 N64-11135 02-14

EFFECT OF SPACE FLIGHT CONDITIONS ON FUNCTIONAL STATE OF VESTIBULAR TONIC & FLEXOR REFLEX IN GUINEA PIGS N64-11861 03-16

PILOT BIOMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR MONITORING PERFORMANCE DURING CENTRIFUGE SIMULATIONS OF SPACE FLIGHT
NADC-MA-6308 N64-12256 03-16

HAZARDS OF EXPOSURE TO PROTON RADIATION DURING SPACE FLIGHT, RELATIVE BIOLOGICAL EFFECTIVENESS AND LINEAR ENERGY TRANSFER
NASA-CR-55189 N64-13186 04-16

BIOLOGY OF SPACE FLIGHT - FOOD ATMOSPHERE & WASTE CONTROL, WATER RECOVERY, SURVIVAL, & RELATED SUBJECTS - ANNOTATED BIBLIOGRAPHY
SB-63-20 N64-13305 04-16

SPACE FLIGHT IN METEORIC ENVIRONMENT - BIBLIOGRAPHY
CARDE-TM-720/63 N64-14249 06-29

TELEMETRY, COMMUNICATIONS, GUIDANCE, TRACKING, AND ELECTRONICS FOR SPACE APPLICATIONS
N64-16151 08-08

SPACE FLIGHT AND GUIDANCE THEORY - SATURN LAUNCH VEHICLE AND TRAJECTORIES
NASA-TM-X-54562 N64-16521 08-22

CYBERNETICS IN BIOLOGY, MEDICINE, AND SPACE FLIGHT
JPRS-23749 N64-17244 09-16

HYDROGEN-OXYGEN FUEL CELLS FOR SPACE MISSIONS
N64-17401 09-06

THERMODYNAMICS OF SPACE FLIGHT
NASA-TM-X-51282 N64-17672 09-13

HUMAN WASTE COLLECTION AND STORAGE DURING SPACE FLIGHT
AMRL-TDR-64-3 N64-18041 10-16

WASH WATER RECOVERY FOR EXTENDED DURATION SPACE FLIGHTS
AIAA PAPER-64-212 N64-21538 15-16

EFFECT OF SPACE FLIGHT CONDITIONS IN VOSTOK III SPACECRAFT ON SEED OF HIGHER PLANTS
N64-21643 15-16

EFFECT OF SPACE FLIGHT CONDITIONS ON CHROMOSOMES OF PRIMARY ROOTLETS OF GERMS IN PEA AND WHEAT SEEDS IN VOSTOK III AND VOSTOK IV SPACECRAFT
N64-21644 15-16

EVALUATION AND SELECTION OF POWERPLANTS FOR SPACE MISSIONS
NASA-RP-192 N64-22069 15-27

PHYSIOLOGICAL AND BEHAVIORAL DATA OF ASTRONAUTS DURING SPACE FLIGHTS
FTD-TT-62-1300/1&2 N64-22622 15-32

SPACE FLIGHTS AND SATELLITE LAUNCHINGS BY USSR
FTD-TT-63-676/1 N64-23305 16-29

ORBITAL SPACE STATION AND PROBLEM OF DEVELOPING ENVIRONMENT SUITABLE FOR HUMAN HABITATION
FTD-TT-63-975/1&2 N64-23311 16-29

MEDICAL AND BIOLOGICAL PROBLEMS OF SPACE FLIGHT AND EFFECT OF WEIGHTLESSNESS ON HUMANS
N64-23639 16-14

FEASIBILITY OF FLIGHT TO MARS N64-23640 16-29

PROBLEMS OF SPACEFLIGHT AFFECTING ARTIFICIAL EARTH SATELLITE N64-23641 16-31

BIOLOGICAL CHARACTERIZATION OF PHYSICAL CONDITIONS OF SPACE FLIGHT N64-23736 16-16

ENGINEERING PSYCHOLOGY OF SPACE FLIGHT
N64-23740 16-16

PHYSIOLOGICAL INTERACTION OF SENSE ORGANS UNDER SPACE FLIGHT CONDITIONS N64-23741 16-16

WASTE UTILIZATION ON LONG TERM SPACE FLIGHT - LIFE SUPPORT SYSTEM N64-23742 16-16

BIOLOGICAL RESEARCH IN SPACE FLIGHT
N64-23746 16-16

PHYSICOCHEMICAL WASTE UTILIZATION COMPONENT FOR LONG-TERM SPACE FLIGHT LIFE SUPPORT SYSTEM
N64-23752 16-16

PHYSICAL EFFICIENCY OF ASTRONAUTS IN SPACECRAFT ENVIRONMENT N64-23757 16-16

SPACE POWER UNIT REACTOR /SPUR/ PROGRAM
APS-5071-R N64-23887 16-27

ELECTROSTATIC PROPULSION FOR SPACE FLIGHT
NASA-TM-X-51764 N64-24030 16-27

LARGE ARC JET THRUSTOR FOR SPACECRAFT ELECTRIC PROPULSION SYSTEM
FR024-10338 N64-24188 16-27

ORBITAL ATTACHMENT, DOCKING, AND LATCHING MECHANISMS FOR SPACECRAFT
RTD-TDR-63-4292 N64-24214 16-06

FLIGHTS TO MOON & PLANETS N64-24495 17-27

SPACE TRAVEL BEYOND SOLAR SYSTEM
N64-24502 17-05

ELECTRICAL POWER SYSTEMS FOR SPACE MISSIONS
NASA-RP-210 N64-24528 17-09

SPACE FLIGHT OF TWO U.S.S.R. ASTRONAUTS
JPRS-25272 N64-25163 17-14

ASTRONAUT TRAINING FOR SPACE FLIGHT
N64-25164 17-14

SPACE FLIGHT CONDITIONS, ENVIRONMENT, AND ASSIGNMENTS OF ASTRONAUTS N64-25165 17-14

TELEMETRIC BIOMETRY OF ASTRONAUTS DURING SPACE FLIGHT N64-25166 17-14

PSYCHOLOGICAL AND PHYSIOLOGICAL RESPONSES OF TWO U.S.S.R. ASTRONAUTS DURING ORBITAL SPACE FLIGHT
N64-25167 17-14

ELECTROMAGNETIC PROPULSION SYSTEM FOR SPACE FLIGHT
DFL-232 N64-25599 17-23

NEUTRON ACTIVATION PROPERTIES OF NUCLEAR REACTOR STRUCTURES FOR SPACE FLIGHT
RM-227 N64-25922 18-23

PLASMA GENERATOR FOR CONVERSION OF HEAT INTO ELECTRICAL ENERGY AND NUCLEAR POWER UNIT FOR SPACE FLIGHT
FTD-TT-64-295/1 N64-26114 18-23

USSR SPACE PROGRAM - SPACEFLIGHT & SPACE SCIENCE
JPRS-25705 N64-26250 18-29

ELECTRIC PROPULSION - APPLICATION TO SPACE FLIGHT
N64-26993 19-27

MEDICAL ASPECTS OF SPACE FLIGHT
EP-17 N64-27071 19-16

DATA ACQUISITION SYSTEMS FOR SPACE FLIGHTS
REPT.-00.-487 N64-27222 19-06

FLIGHTS OF VOSTOK V AND VOSTOK VI SPACECRAFT, & BIOTELEMETRY FOR PROLONGED SPACE FLIGHT
FTD-TT-64-34/1&2&3&4 N64-27524 19-32

PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT CONDITIONS - COSMIC RADIATION, WEIGHTLESSNESS, & OXYGEN SUPPLY
JPRS-25844 N64-27630 19-16

RADIOBIOLOGICAL RESEARCH OF COSMIC RADIATION EFFECTS DURING SPACE FLIGHTS N64-27631 19-16

SPACE FLIGHT OF VOSTOK V AND VOSTOK VI SPACECRAFT
FTD-TT-64-119/1&2&4 N64-27841 19-32

NUCLEAR SPACE PROPULSION SYSTEMS
AIAA PAPER-64-556 N64-27967 20-27

SPACE FLIGHT AND ADAPTIVE GUIDANCE
NASA-TM-X-51924 N64-29515 21-29

ENGINEERING SIMULATION AND COMPUTER PROGRAM OF POWERED SPACE FLIGHT
W-06871 N64-29903 21-10

HIGHLY NUTRITIOUS FOOD DEVELOPED FOR SPACE FLIGHT
AMRL-TDR-64-38 N64-29939 21-16

MECHANICS OF SPACE FLIGHT WITH LOW THRUST PROPULSION N64-30426 22-23

SOLUTIONS OF EXACT AND APPROXIMATE DYNAMIC EQUATIONS IN LOW THRUST SPACE FLIGHT MECHANICS
NASA-TT-F-9033 N64-31340 22-27

SPACE FLIGHT OF JET AIRCRAFT WITH IONIC OR PLASMA ENGINE N64-31524 23-32

OPTIMUM TRAJECTORIES FOR SPACECRAFT WITH ENGINES OF LIMITED PROPULSION OUTPUT TO AND FROM PLANET - GRAVITATIONAL EFFECTS N64-31527 23-30

APPLICATION OF STORABLE PROPELLANTS TO SPACE FLIGHT - PROPELLANT REQUIREMENTS AND SPACE ENVIRONMENTAL FACTORS N64-32052 23-26

HUMAN PERFORMANCE UNDER EXTENDED WEIGHTLESSNESS DURING VOSTOK II SPACECRAFT FLIGHT
FTD-TT-64-147/1&4 N64-32457 22-32

PHYSIOLOGICAL REACTIONS OF ANIMALS DURING SPACE FLIGHTS
JPRS-26994 N64-32796 24-16

NASA LAUNCHING OF SATELLITE TO GATHER INFORMATION ON METEOROID HAZARDS IN SPACE FLIGHT N64-33063 24-32

DOSIMETRIC DATA EVALUATION ON SOLID ANGLE BREAKDOWN OF SHIELD THICKNESS FOR APOLLO VEHICLE - RADIATION HAZARD IN SPACE FLIGHT
NASA-CR-59266 N64-33284 24-16

SPACE LAW
MEETING OF UNITED NATIONS COMMITTEE ON PEACEFUL USES OF OUTER SPACE - SPACE LAW, METEOROLOGY, AND TELECOMMUNICATION
A/AC.105/PV-22 N64-10435 01-01

ATOMIC ENERGY IN SPACE - LEGISLATIVE PROBLEMS ASSOCIATED WITH RESEARCH & DEVELOPMENT N64-14554 06-01

SPACE LAW AND COMMUNICATIONS SATELLITES, FREE SPACE LOWER BOUNDARY, CONTROL OF SPACE, ORBITAL REGULATION, AND INTERNATIONAL COOPERATION
NASA-SP-44 N64-21136 14-01

CLARIFICATION OF EMERGENCE OF CUSTOMARY POLICIES ABOUT SPACE, AND POSSIBILITY OF CODIFICATION INTO SPACE LAW N64-21137 14-01

FREEDOM OF OUTER SPACE, BOUNDARY BETWEEN NATIONALLY CONTROLLED AIRSPACE AND FREE SPACE, AND PROBLEMS OF CONTROL, SOVEREIGNTY, & JURISDICTION N64-21139 14-01

CAPACITY OF ORGANIZATIONS OF INTERNATIONAL COOPERATION TO DEVELOP AND EXERT INFLUENCE IN FIELD OF SPACE LAW N64-21140 14-01

MONOPOLY AND ANTITRUST ASPECTS OF COMMUNICATIONS SATELLITE OPERATIONS - SPACE LAW N64-21141 14-01

REGULATION IN ORBIT - ADMINISTRATIVE ASPECTS OF COMMUNICATIONS SATELLITE ACT AND SPACE LAW N64-21142 14-01

PROBLEMS OF SPACE LAW AND POLICY RESULTING FROM COMMUNICATIONS SATELLITE ACT AND INHERENT IN OPERATING SATELLITE SYSTEM N64-21143 14-01

SPACE LAW AND INTERNATIONAL COOPERATION
NASA-RP-308 N64-30764 22-01

SPACE MISSION
ADDENDUM MANUAL FOR OPERATIONS RESEARCH OF SPACE MISSIONS
SM-43611 N64-27226 19-29

COMPARISON OF ELECTRIC PROPULSION SYSTEMS WITH NUCLEAR OR CHEMICAL PROPULSION FOR SPACE MISSIONS
AIAA PAPER-64-715 N64-28372 20-27

LECTURES IN AEROSPACE MEDICINE - LIFE SUPPORT SYSTEMS, HUMAN PERFORMANCE, AND LANDING SIMULATION FOR MANNED LUNAR LANDING, ORBITING LABORATORY, AND MARS MISSIONS
AD-445253 N64-30712 22-16

CREW TRAINING AND HUMAN PERFORMANCE ON SPACE MISSIONS N64-30718 22-14

SPACE NAVIGATION
SA INTERPLANETARY NAVIGATION
USE OF OPTICAL DOPPLER SHIFTS IN RADIATION FROM NATURAL SOURCES TO DETERMINE SPACE VEHICLE VELOCITY - SPACE NAVIGATION
F-A2415 N64-12042 03-15

AUTOMATIC CONTROL FOR SPACE NAVIGATION
FTD-TT-63-608/1 N64-18693 11-22

PSEUDO-DIURNAL TRANSIT TECHNIQUE OF SPACE NAVIGATION IN INTERPLANETARY MIDCOURSE - CELESTIAL MECHANICS
NASA-CR-56288 N64-22473 15-22

APPLICATION OF STATE SPACE METHODS TO NAVIGATION PROBLEMS - GUIDANCE AND CONTROL
TR-4 N64-27648 19-22

NONLINEAR RECURSIVE ESTIMATION PROCEDURE - APPLICATION TO SPACE NAVIGATION - STOCHASTIC APPROXIMATION METHOD
NASA-CR-58962 N64-33171 24-20

SPACE ORIENTATION
SA SPACE REFERENCE SYSTEM
DETERMINATION OF ABSOLUTE DIRECTIONS IN SPACE WITH ARTIFICIAL SATELLITES
NASA-CR-52505 N64-10440 01-29

SPACE PHOTOGRAPHY
SPACE PHOTOGRAPHY DURING AMERICAN & SOVIET ORBITAL FLIGHTS
JPRS-23410 N64-15608 07-15

SPACE PHOTOGRAPHY FROM MERCURY /MA-4/ SATELLITE
NASA-CR-53505 N64-20000 13-15

SPACE POWER UNIT REACTOR /SPUR/
SYSTEM FOR NUCLEAR AUXILIARY POWER-50 /SNAP-50/ AND SPACE POWER UNIT REACTOR /SPUR/ NUCLEAR MECHANICAL POWER UNIT PROGRAM
APS-5090-R1 N64-23875 16-27

SPACE POWER UNIT REACTOR /SPUR/ PROGRAM
APS-5071-R N64-23887 16-27

FATIGUE TEST OF NIOBIUM ZIRCONIUM ALLOY IN ALKALI METAL ENVIRONMENT IN SPACE POWER UNIT REACTOR
ASD-TDR-63-270, PT. IV N64-29310 21-18

COMPONENTS AND CONTROLS FOR SPACE POWER UNIT REACTOR /SPUR/
APS-5090-R2 N64-29316 21-06

PRESSURE DROP EQUATIONS FOR BOILER AND CONDENSER OF SPACE POWER UNIT REACTOR IN NUCLEAR AUXILIARY POWER SYSTEM
L-9389 N64-32509 23-06

COMPUTER PROGRAM FOR ANALYSIS OF SYSTEM FOR NUCLEAR AUXILIARY POWER-50 /SNAP-50/ SPACE POWER

UNIT REACTOR /SPUR/ BOILER
L-9390 N64-32680 23-13

UNMANNED ELECTRICAL PROPULSION MISSIONS OF SYSTEM FOR NUCLEAR AUXILIARY POWER-50 /SNAP-50/ SPACE POWER UNIT REACTOR /SPUR/ POWER PLANT
PWAC-447 N64-33074 24-27

EFFECTS OF POTASSIUM VAPOR ON CREEP-RUPTURE PROPERTIES OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOYS FOR SNAP 50/SPACE POWER UNIT REACTOR /SPUR/ PROGRAM
APS-5092-R N64-33532 24-18

SPACE PROBE
SA MARINER II SPACE PROBE
SA PIONEER I SPACE PROBE
SA VENUS PROBE
EFFECT OF FLANK LOSSES IN THEORY OF SPACE PROBE ENTRY UNDER HIGH MASS LOSS CONDITIONS
NASA-TN-D-2050 N64-11192 02-29

EXPERIMENTS FOR MARTIAN AND VENUSIAN ATOMSPHERE PROBE
NASA-TN-D-1899 N64-11234 02-29

OUTER GEOMAGNETIC FIELD INTERACTION WITH SOLAR PLASMA STREAMS MEASURED BY SPACE PROBES
IPPJ-12 N64-11252 02-12

SATELLITE SPACE PROBES FOR PROPERTIES AND SOLAR EFFECT ON EARTH ATMOSPHERE N64-11597 03-01

DETECTION OF SATELLITES AND SPACE PROBES BY ULTRAVIOLET, VISIBLE, & INFRARED RADIATION N64-15475 07-23

PERFORMANCE CHARACTERISTICS OF ERROR LOCATION CODES FOR SPACE PROBE TELEMETRY SYSTEMS N64-16178 08-08

DIRECT MEASUREMENT OF INTERPLANETARY DUST FROM SATELLITES AND SPACE PROBES
NASA-TM-X-54570 N64-17609 09-05

COMPUTER SIMULATION OF ATMOSPHERIC DRAG FOR TESTING TRAJECTORY OF ARTIFICIAL SATELLITE OR SPACE PROBE N64-18232 10-29

SOUNDING ROCKET, SATELLITE AND SPACE PROBE LAUNCHINGS, AND OBSERVATIONS - BIBLIOGRAPHY N64-19319 12-32

STERILIZATION OF SPACE PROBE COMPONENTS
NASA-CR-56474 N64-23019 16-16

UNMANNED SPACECRAFT - DEEP SPACE PROBES AND SCIENTIFIC AND APPLICATIONS SATELLITES
NASA-EP-16 N64-24240 17-32

DIRECT MEASUREMENTS OF INTERPLANETARY DUST FROM SATELLITES AND PROBES
NASA-RP-234 N64-26072 18-05

STERILIZATION OF SPACE PROBE COMPONENTS
NASA-CR-58284 N64-28228 20-16

STERILIZATION OF SPACE PROBE COMPONENTS
NASA-CR-58286 N64-28938 20-17

IONOSPHERE RESEARCH BY RUSSIAN SPACE PROBES
NAS-NRC-1183 N64-30451 22-01

SPACE PROBE MEASUREMENTS OF IONOSPHERIC ELECTRON DENSITY AND FARADAY EFFECT N64-30452 22-12

SPACE PROBE FOR IONOSPHERIC COMPOSITION, ELECTRON TEMPERATURE, AND POSITIVE ION DENSITY
NASA-CR-59136 N64-33223 24-15

SPACE PROGRAM
SA EUROPEAN SPACE PROGRAM
S NASA PROGRAM
SPACE PROGRAMS OF DEEP SPACE INSTRUMENTATION FACILITY
NASA-CR-52144 N64-10113 01-10

ROLE OF INDUSTRY IN NATIONAL SPACE PROGRAM N64-10351 01-01

CONTRIBUTIONS OF NEW MEXICO TO SPACE PROGRAM N64-11199 02-01

SPACE PROGRAM ECONOMIC ASPECTS - INDUSTRY, SPACE SCIENCE & TECHNOLOGY, EDUCATION, AND METHODS FOR CLOSING GOVERNMENT-INDUSTRY GAP N64-11400 02-01

SPACE TECHNOLOGY, THE SPACE PROGRAM, AND SOCIO-ECONOMIC PROBLEMS OF METROPOLITAN AREAS N64-11504 03-01

SATELLITE ASPECTS OF SPACE EXPLORATION PROGRAMS N64-11505 03-29

SPACE SCIENCE & ENGINEERING AND THE SPACE PROGRAM N64-11506 03-01

SOCIOECONOMIC PROBLEMS ARISING FROM ADVANCES IN SCIENCE & TECHNOLOGY AND THE SPACE PROGRAM N64-11513 03-01

SPACE PROGRAM, HUMAN ENGINEERING, AND MEDICAL RESEARCH N64-11516 03-14

CHALLENGE OF SPACE RESEARCH & DEVELOPMENT PROGRAM AND IMPACT ON GOVERNMENT, INDUSTRY, & UNIVERSITIES N64-11732 03-01

COMPILATION OF REPORTS ON SYSTEMS, GUIDANCE, CONTROL, ENGINEERING AND MATERIALS, FACILITIES, PROPULSION, TELECOMMUNICATIONS, AND SPACE SCIENCE
NASA-CR-53001 N64-13262 04-01

UNITED STATES AERONAUTICS AND SPACE ACTIVITIES - PRESIDENTIAL REPORT TO CONGRESS N64-14178 06-01

SPACE FLIGHT SUPPORTING PROGRAMS - GUIDANCE & CONTROL, PROPULSION, POLYMER PHYSICS, TELECOMMUNICATIONS, AND AERODYNAMICS
NASA-CR-53054 N64-14896 06-01

HYDROGEN-OXYGEN SOLID-ELECTROLYTE FUEL CELL BATTERIES FOR SPACE APPLICATION N64-17410 09-06

MANNED SPACE FLIGHT PROGRAM, JANUARY THROUGH JUNE 1963 - SATURN AND RIFT PROJECTS
NASA-TM-X-51523 N64-17796 09-10

SPACE PROGRAM SUMMARY - SYSTEMS, GUIDANCE AND CONTROL, ENGINEERING, PROPULSION, SPACE SCIENCES, AND TELECOMMUNICATIONS RESEARCH
NASA-CR-56175 N64-20816 14-01

CARRIER ROCKET FOR NATIONAL SPACE PROGRAM - GERMANY
NASA-TT-F-9012 N64-23055 16-31

SPACE PROGRAM - COST ESTIMATE
P-2858 N64-25185 17-01

SPACE EXPLORATION PROGRAMS & SPACE SCIENCE
NASA-CR-56727 N64-25677 17-01

CONFERENCE ON PEACEFUL USES OF SPACE
NASA-SP-51 N64-30326 22-01

SPACE EFFORT BY UNITED STATES N64-30327 22-01

SPACE PROGRAM EFFECT UPON NEW ENGLAND INDUSTRY AND ECONOMY N64-30328 22-01

CONGRESS DEALS WITH SPACE SCIENCE AND TECHNOLOGY N64-30330 22-01

MANNED SPACE FLIGHT - SCIENTIFIC, TECHNOLOGICAL AND SOCIOLOGICAL BACKGROUND N64-30331 22-32

APOLLO PROJECT - PROGRESS AND NATIONAL BENEFITS N64-30335 22-32

PURPOSE OF SPACE PROGRAM N64-30336 22-01

SPACE TECHNOLOGY TRANSFER TO CIVILIAN APPLICATION N64-30348 22-01

COMPETING FOR SPACE PROGRAM BUSINESS - MARKETING

FACTOR N64-30349 22-01

SPACE PROGRAM OPPORTUNITIES FOR NEW ENGLAND
N64-30350 22-01

NAVAL MEDICAL SUPPORT OF SPACE PROGRAM
N64-30715 22-16

AIR FORCE MEDICAL SUPPORT OF SPACE PROGRAM
N64-30716 22-16

SPACE SCIENCE, SPACE PROGRAMS, AND SPACE MEDICINE
N64-30733 22-01

SPACE PROGRAMS FOR PERIOD 1962-1975 - BOOSTERS, DESIGNATIONS, DIMENSIONS, COST, AND LAUNCH DATES
SP-3 N64-30775 22-30

ORGANIZATIONAL MEASURE FOR SUPPORT OF SWEDISH SPACE PROGRAM
NASA-TT-F-8801 N64-31558 23-01

EFFECTS OF NATIONAL SPACE PROGRAMS ON EDUCATION AND UNIVERSITIES N64-32042 23-01

SPACE PROGRAM - SYSTEMS ANALYSIS, GUIDANCE AND CONTROL, ENGINEERING FACILITIES, PROPULSION, AND COMMUNICATIONS
NASA-CR-58944 N64-32992 24-10

SPACE PROGRAM - HIGH THRUST BOOSTERS WITH GREATER PAYLOAD CAPABILITIES, SUPERIOR GUIDANCE AND CONTROL, AND ASTRONAUT TRAINING
EP-6 REV. N64-33740 24-32

NASA AND OTHER NATIONAL SPACE PROGRAMS
N64-33863 24-01

SPACE RADIATION
S GAMMA RADIATION
EFFECT OF SPACE RADIATION ON LIVING ORGANISMS
JPRS-18994 N64-11122 02-32

METEOROLOGICAL STUDIES AS RELATED TO AEROSPACE NUCLEAR RADIATION SAFETY N64-14569 06-21

HYDROMAGNETIC WAVES IN SPACE N64-15185 07-28

SPACE RADIATION - VAN ALLEN BELT, GALACTIC COSMIC RADIATION, SOLAR WIND & FLARES, AND PHOTON RADIATION WITH REGARD TO APOLLO PROJECT
NASA-TM-X-54700 N64-17610 09-28

COMPUTER ANALYSIS OF BIOLOGICAL HAZARDS OF SPACE RADIATION - DEVELOPMENT OF FORTRAN PROGRAMS
AMRL-TDR-64-11 N64-18649 11-23

MONTE CARLO CODE FOR EVALUATION OF SPACE RADIATION PENETRATION HAZARDS
D2-90414 N64-19482 12-23

SPACE RADIATION EFFECT ON NIMBUS B SATELLITES IN VARIOUS ORBITS
R64-MCD-501 N64-27213 19-28

ENGINEERING DESIGN OF SPACE RADIATION EFFECTS LABORATORY N64-28164 20-10

COMPUTER CODES FOR DETERMINATION OF ABSORBED SPACE RADIATION DOSE BY SPACECRAFT ON ARBITRARY TRAJECTORY - RADIATION ENVIRONMENT AND SHIELDING
WL-TDR-64-71, VOL. I N64-29329 21-23

COMPUTER CODE FOR EVALUATION OF SPACE RADIATION ABSORPTION IN BODY OF ASTRONAUT
NASA-CR-58292 N64-29363 21-20

COMPUTER EVALUATION OF SPACE RADIATION HAZARDS AND REQUIREMENT FOR ADDITIONAL RADIATION SHIELDING IN APOLLO SPACECRAFT
NASA-CR-58294 N64-29365 21-20

CORRELATION OF LINEAR ENERGY TRANSFER WITH RELATIVE BIOLOGICAL EFFECTIVENESS OF SPACE RADIATIONS
NASA-CR-58289 N64-29573 21-16

NUCLEAR PHYSICS, SPACE RADIATION, SOLID STATE PHYSICS, AND COMPUTER PROGRAMMING
AECL-2044 N64-29775 21-23

SOLAR FLARES AND SPACE RADIATION
N64-30717 22-16

SPACE RADIATION PROTECTION IN SPACECRAFT
N64-30719 22-16

SPACE CABIN ATMOSPHERES - HIGH OXYGEN TENSION IN ANIMALS AND HUMANS, OXYGEN TOXICITY, AND DRUG THERAPY
NASA-SP-47 N64-31219 22-16

ELECTROSTATIC AND MAGNETIC SHIELDING AGAINST SPACE RADIATION
RR-192 N64-32504 23-24

SPACE SCIENCE
IMPACT OF SPACE TECHNOLOGY - PLANS FOR LUNAR EXPLORATION AND SPACE RESEARCH N64-10348 01-01

BIBLIOGRAPHY - AERONAUTICS & SPACE SCIENCES FOR SECONDARY GRADES
NASA-EP-2 N64-10604 01-29

BIBLIOGRAPHY - SPACE & ASTRONOMY
NASA-EP-3 N64-10605 01-29

SPACE PHYSICS - SOLAR WIND, INTERPLANETARY MAGNETIC FIELD & GEOCENTRIC MAGNETOSPHERE
NASA-CR-52759 N64-11296 02-23

SPACE PROGRAM ECONOMIC ASPECTS - INDUSTRY, SPACE SCIENCE & TECHNOLOGY, EDUCATION, AND METHODS FOR CLOSING GOVERNMENT-INDUSTRY GAP
N64-11400 02-01

SPACE SCIENCE & ENGINEERING AND THE SPACE PROGRAM
N64-11506 03-01

SPACE SCIENCE AND TECHNOLOGY AND SOCIOECONOMIC PROBLEMS N64-11507 03-01

COMPILATION OF REPORTS ON SYSTEMS, GUIDANCE, CONTROL, ENGINEERING AND MATERIALS, FACILITIES, PROPULSION, TELECOMMUNICATIONS, AND SPACE SCIENCE
NASA-CR-53001 N64-13262 04-01

LUNAR, PLANETARY-INTERPLANETARY PROGRAM, DEEP SPACE INSTRUMENTATION FACILITY, OPERATIONAL & TEST FACILITY, AND SPACE SCIENCES
NASA-CR-53009 N64-13263 04-32

SPACE PSYCHOLOGY
FTD-MT-63-68/1&3&4 N64-14375 06-16

SCIENCE & SPACE AGE
JPRS-23062 N64-14531 06-01

BIBLIOGRAPHY - SPACE TECHNOLOGY
DSIS-B12 N64-14885 06-29

SUMMARIES OF PAPERS ON MANY ASPECTS OF SPACE SCIENCE
AD-429096 N64-14993 06-29

NASA SPACE SCIENCES AND APPLICATIONS PROGRAMS
NASA-TM-X-54602 N64-16026 07-32

DIRECTION OF EFFORT, RESEARCH FUNCTIONS, AND TEST INSTALLATIONS OF GERMAN RESEARCH INSTITUTE FOR AERONAUTICS AND SPACE TRAVEL N64-17545 09-10

SPACE SCIENCES PROGRAM - PHYSICAL SCIENCES, BIOLOGICAL SCIENCES, ENGINEERING, AND BUSINESS ADMINISTRATION N64-19005 11-01

SPACE SCIENCES PROGRAM - PHYSICAL SCIENCES, BIOLOGY, ENGINEERING, & BUSINESS ADMINISTRATION
N64-19096 11-01

COMPUTER ORIENTED RESEARCH IN SPACE RELATED SCIENCES
NASA-CR-56097 N64-20684 13-01

SPACE PROGRAM SUMMARY - SYSTEMS, GUIDANCE AND CONTROL, ENGINEERING, PROPULSION, SPACE SCIENCES, AND TELECOMMUNICATIONS RESEARCH
NASA-CR-56175 N64-20816 14-01

SPACE SCIENCES, SOLAR RADIATION, ATMOSPHERIC ABSORPTION & IONOSPHERIC STUDIES
SER. 5, ISSUE 25 N64-21383 14-12

SPACE SCIENCE & SPACE FLIGHT
FTD-TT-62-1189/1 N64-22383 15-32

SPACE MAINTENANCE HANGAR CONCEPT
N64-23707 16-31

SPACE SCIENCE - SOLAR RADIATION, FLAME REACTION KINETICS, STRATOSPHERIC PLANETARY OBSERVATORY, INFORMATION SYSTEMS, AND SPACE BIOLOGY
N64-25186 17-28

SPACE EXPLORATION PROGRAMS & SPACE SCIENCE
NASA-CR-56727 N64-25677 17-01

USSR SPACE PROGRAM - SPACEFLIGHT & SPACE SCIENCE
JPRS-25705 N64-26250 18-29

REPORTS AND REPRINTS ON SPACE SCIENCES, SATELLITES AND PROBES, GEOPHYSICS, TRACKING, INSTRUMENTATION, AND PLASMA PHYSICS N64-27171 19-01

HEALTH, SPACE SCIENCE AND TECHNOLOGY, BIOLOGY, AND PHYSIOLOGY
JPRS-25506 N64-28009 20-16

SPACE EXPLORATION PROGRESS IN LUNAR AND PLANETARY-INTERPLANETARY PROGRAMS, DEEP SPACE INSTRUMENTATION FACILITY /DSIF/, AND SPACE SCIENCE
NASA-CR-58546 N64-28972 20-32

COSMIC RESEARCH
FTD-TT-64-547/1&2&4 N64-29076 21-01

CONFERENCE ON SPACE RESEARCH N64-29094 21-01

SPACE SCIENCE CONTRIBUTIONS IN ASTROPHYSICS, GEODESY, GEOLOGY, METEOROLOGY, AND ASTRONOMY
N64-30339 22-29

SPACE SCIENCE AND SPACE MEDICINE
N64-30732 22-29

SPACE SCIENCE AND COSMIC RESEARCH
FTD-TT-770/1&2 N64-31522 23-29

ANNOTATED BIBLIOGRAPHY ON AEROSPACE SCIENCE AND TECHNOLOGY
NASA-CR-58761 N64-32991 24-29

SPACE SIMULATION
CF ENVIRONMENT SIMULATION
THERMODYNAMIC SYSTEM FOR TEMPERATURE CONTROL OF HEAT SINKS IN SPACE SIMULATION CHAMBERS
AEDC-TDR-64-121 N64-21718 15-13

HUMAN TOLERANCE TO ENVIRONMENT IN ROTATING SPACE STATION - SPACE FLIGHT SIMULATION
ADN-04-09-63.1 N64-23474 16-30

SIMULATED LUNAR GRAVITY FOR TESTING MANNED LUNAR MISSION, SPACECRAFT, AND INSTRUMENTATION
NASA-RP-207 N64-23626 16-30

CATALOG OF SPACE SIMULATION VACUUM CHAMBERS
ATC-ARTC-38 N64-28927 20-10

LARGE VACUUM CHAMBERS FOR SIMULATION OF VERY HIGH ALTITUDES AND SPACE ENVIRONMENT
N64-29881 21-10

SPACE AND LUNAR LANDING SIMULATION
N64-30723 22-10

SPACE ENVIRONMENT SIMULATION FOR GROUND BASED TESTING OF ION ENGINES - INTERACTION OF ANNULAR ION BEAM WITH ENVIRONMENT
AEDC-TDR-64-127 N64-32121 23-27

SPACE POWER PLANT STARTUP AND TRANSIENT OPERATION SIMULATION WITH DIRECT CONDENSING RADIATOR SYSTEM
NASA-CR-54179 N64-32689 23-06

VIABILITY OF MICROORGANISMS IN SIMULATED SPACE
NASA-CR-59092 N64-33099 24-16

SPACE SIMULATOR
RECOMMENDED SAFETY PRACTICES FOR MANNED SPACE SIMULATOR PRESSURE CHAMBERS
ARTC-41 N64-27335 19-14

SPACE CHAMBER SOLAR SIMULATOR
NASA-CR-59051 N64-32489 23-10

SPACE STATION
SA MANNED ORBITAL RESEARCH LABORATORY /MORL/ INERTIAL SIMULATOR WITH AUTOMATIC DAMPING CONTROL SUITABLE FOR ROTATING MANNED SPACE STATION
NASA-CR-50791 N64-10346 01-10

GRAVITY GRADIENT EXCITATION OF ROTATING CABLE-COUNTERWEIGHT ORBITING SPACE STATION - LAGRANGE EQUATIONS OF MOTION
TDR-169/3530-20/-TN-1 N64-11180 02-30

DESIGN, CONSTRUCTION, & OPERATION OF SCALE MODEL SELF-DEPLOYING SPACE STATION
NASA-CR-52907 N64-11728 03-32

DEVELOPMENT OF SPACE STATION, SOLAR COLLECTOR, CRYOGENIC STORAGE TANK, AND ANTENNA FOR ELASTIC RECOVERY OF SPACE EXPANDABLE STRUCTURES
NASA-CR-55022 N64-11817 03-34

ORBITING OBSERVATORIES FOR SPACE EXPLORATION
JPRS-22972 N64-14254 06-29

MULTIPLE-UNIT SNAP 2 SYSTEMS TO PROVIDE POWER FOR MANNED SPACE STATIONS
NAA-SR-9252 N64-16256 08-06

DESCRIPTION OF INTERPLANETARY STATION MARS I
FTD-TT-62-1921/1&2 N64-18258 10-29

CORRECTION OF IN-PLANE INJECTION DELAY CAUSED BY ORBITAL PLANE REGRESSION IN LUNAR LAUNCH FROM ORBITING SPACE STATION
NASA-RP-160 N64-19032 11-29

SPIN DYNAMICS OF MANNED SPACE STATIONS UNDER EXTERNAL DISTURBANCES & EFFECT OF STABILIZERS
NASA-TR-R-155 N64-19292 11-32

DYNAMIC MOTION EQUATIONS FOR ROTATING, CYLINDRICAL SPACE STATIONS
NASA-TM-X-51695 N64-22445 15-30

ORBITAL SPACE STATION - THE COSMIC ASTRO-OBSERVER
FTD-TT-62-1780/1&2 N64-22635 15-05

ORBITAL SPACE STATION AND PROBLEM OF DEVELOPING ENVIRONMENT SUITABLE FOR HUMAN HABITATION
FTD-TT-63-975/1&2 N64-23311 16-29

AUTOMATIC MARINER II AND MARS I SPACE STATIONS
FTD-TT-63-301/1&4 N64-23425 16-31

LAUNCH AND PERFORMANCE CHARACTERISTICS OF SPACE STATIONS
FTD-TT-63-1041/1&2 N64-23634 16-01

DESIGN OF ADVANCED ORBITING ASTRONOMICAL OBSERVATORY N64-28119 20-32

SPACE LOGISTICS FOR ELECTRICAL POWER GENERATOR SYSTEM FOR SPACE STATION
AIAA PAPER-64-720 N64-28374 20-06

ELECTRICAL AND CHEMICAL THRUST DEVICES FOR APPLICATION TO ATMOSPHERIC DRAG CANCELLATION ON SPACE STATION CONFIGURATION
NASA-TN-D-1835 N64-30093 21-27

CREW STATION DESIGN CRITERIA FOR SPACE VEHICLES - PRESSURE SUIT REQUIREMENTS, POTENTIAL HAZARDS, AND IN-FLIGHT MAINTENANCE
SID-64-997 N64-32201 23-32

SPACE SUIT
CF PRESSURIZED SUIT
PHYSIOLOGICAL REACTIONS TO ACCELERATION STRESS AND PROTECTIVE CLOTHING N64-13453 05-16

RESTRAINT & PROTECTION OF HUMAN EXPERIENCING SMOOTH OR OSCILLATING ACCELERATIONS SIMULATING

SPACE FLIGHT
N64-13459 05-16

ATTENUATION OF EQUILIBRIUM TEMPERATURE GRADIENTS IN SPACE SUITS USING WATER
AMRL-TDR-63-80 N64-13653 04-16

ACOUSTIC NOISE ELIMINATION DEVICE FOR DOME OF SPACE SUIT HELMET
C30-31 N64-14650 06-23

SPACE SUIT DESIGN FACTORS OF TEMPERATURE VARIATION WITH TIME, TEMPERATURE DISTRIBUTION, AND FLUID CIRCULATION FOR TEMPERATURE EQUALIZATION
AMRL-TDR-63-102 N64-15093 07-16

SPACE SUIT - BREATHING, VENTILATION, PRESSURE AND DECOMPRESSION
FTD-TT-64-134/1&2&4 N64-21973 15-16

DONNING AND DOFFING OF SPACE SUIT IN WEIGHTLESS CONDITIONS
AMRL-TDR-64-32 N64-22382 15-16

SPACE SUIT - LIFE SUPPORT SYSTEM
NASA-TT-F-8852 N64-22940 16-16

SPACE MAINTENANCE HANGAR CONCEPT
N64-23707 16-31

HEATING RELATED TO IMPINGEMENT OF ROCKET EXHAUST ON SPACE SUIT SURFACES AND PERFORMANCE OF INERT HEATED GASES AS PROPELLANTS
ASD-TDR-63-729 N64-32645 23-26

SPACE SURVEILLANCE SYSTEM
TACTICAL DECISION MAKING FOR THREAT EVALUATION AND ACTION SELECTION IN AEROSPACE SURVEILLANCE
ESD-TDR-61-42 N64-11302 02-01

ERROR ANALYSIS OF SATELLITE ORBITAL PARAMETERS OBTAINED BY NAVAL SPACE SURVEILLANCE SYSTEM
NRL-5864 N64-15127 07-09

SONIC DELAY LINE FOR NAVY SPACE SURVEILLANCE SYSTEM
NRL-5927 N64-15128 07-08

RADIOINTERFEROMETER PHASE-CHANNEL COMBINER FOR SPACE SURVEILLANCE SYSTEM N64-16172 08-08

PASSIVE OPTICAL SPACE SURVEILLANCE SYSTEM - TARGET DISCRIMINATION IN CELESTIAL ENVIRONMENT AND ORBIT PREDICTION
RADC-TDR-63-415 N64-21070 14-23

SPACE SURVEILLANCE SYSTEM - OPERATIONAL PROBLEMS
N64-24857 17-08

SPACE SYSTEMS ENGINEERING
SPACE SYSTEM DESIGN OPTIMIZATION BASED ON HUMAN REQUIREMENTS DURING ACCELERATION
N64-11808 03-14

RADIO-ENGINEERING METHODS EMPLOYED IN EXPLORATION OF IONOSPHERE - EVALUATION OF DATA FROM SPACE ROCKETS AND ARTIFICIAL SATELLITES
FTD-TT-62-464/1&2&3&4 N64-22153 15-32

TEMPERATURE CONTROL ENGINEERING OF NUCLEAR-ELECTRIC SPACECRAFT
ARS PAPER-2392-62 N64-22465 15-27

REFRACTORY MATERIALS FOR SPACE APPLICATION
N64-25410 17-17

ENGINEERING SAFETY IN MISSILE-SPACE SYSTEMS
N64-25823 17-14

HUMAN ENGINEERING CRITERIA FOR USE IN SPACE SYSTEMS ENGINEERING, ESPECIALLY IN MAINTENANCE AND REPAIR OF ADVANCED SPACE SYSTEMS
NASA-CR-58575 N64-29557 21-16

HUMAN FACTORS INFORMATION REQUIREMENTS FOR SPACE SYSTEM DEVELOPMENT
NASA-CR-59050 N64-33208 24-14

SPACE-TIME CONTINUUM
ONE-DIMENSIONAL PLASMA-CONDUCTIVITY KERNEL
FUNCTION IN SPACE-FREQUENCY AND SPACE-TIME DOMAINS
SEL-63-088 N64-19169 11-24

PROBLEM OF SPACE AND TIME IN EINSTEIN GRAVITATION THEORY
-D1-82-0312 N64-20406 13-23

HUMAN PERCEPTION OF ENVIRONMENTAL SPACE-TIME RELATIONSHIPS N64-25078 17-16

SPACE-TIME FUNCTION
SPACE-TIME CORRELATION OF U-COMPONENT OF TURBULENCE IN JET MIXING REGION
AGARD-452 N64-18722 11-11

FINITE DIFFERENCE METHOD FOR SOLVING SPACE-TIME DIFFUSION EQUATION IN TWO-GROUP APPROXIMATION
EUR-596.E N64-20833 14-20

STRUCTURE, SYMMETRY, AND SPACE TIME OF ELEMENTARY PARTICLES
RIFP-39 N64-29615 21-23

SPACE-TIME DISTRIBUTION OF THERMAL NEUTRONS IN MODEL SAND LAYERS N64-31793 23-12

MULTIPOLAR CONTINUUM MECHANICS - FUNCTIONALS OF SPACE, TIME, AND MULTIPOLAR DISPLACEMENT
TR-92 N64-32536 23-23

SPECTRAL DISTRIBUTIONS OF SPACE-TIME CORRELATIONS OF SPEED IN TURBULENT BOUNDARY LAYER
ONERA-TP-164/1964/ N64-33259 24-11

SPACE-TIME METRIC
S SCHWARZSCHILD METRIC

SPACE VEHICLE
SA RECOVERABLE SPACE VEHICLE
CF SATELLITE
CF SPACECRAFT
LARGE AMPLITUDE OSCILLATIONS OF VEHICLES ENTERING PLANETARY ATMOSPHERES N64-10082 01-02

BIBLIOGRAPHY OF SOVIET DEVELOPMENTS IN TRACKING MISSILES & SPACE VEHICLES
AID-P-63-24-19 N64-10112 01-08

ACCELERATION HODOGRAPH USED TO OBTAIN TRANSFORMED EQUATIONS OF MOTION FOR SPACE VEHICLES UNDER GRAVITATIONAL ATTRACTION
NASA-CR-52873 N64-11262 02-29

ERROR ANALYSIS OF SPACE VEHICLE TRAJECTORY NAVIGATION SYSTEM BY LINEAR FILTER THEORY
NASA-TN-D-2129 N64-12718 04-29

IMPROVING MAGNETIC SHIELDING OF SPACE VEHICLES AGAINST CHARGED-PARTICLE COSMIC RADIATION
ERR-FW-210 N64-12926 04-09

THERMAL RADIATION FIELDS ILLUMINATING A VEHICLE IN SPACE COMPUTED FROM SPACE FLIGHT SIMULATION
AEDC-TDR-63-206 N64-15089 07-10

MATRIX METHOD USING FLEXIBILITY INFLUENCE COEFFICIENTS FOR DETERMINING MODE SHAPES AND NATURAL FREQUENCIES OF SPACE VEHICLES
NASA-TM-X-54566 N64-16332 08-33

MONTE CARLO APPLICATION FOR DEVELOPING SPACE VEHICLE COMPONENT DESIGN RELIABILITY GOAL FOR USE WITH VERY SMALL SAMPLE SIZES
NASA-TM-X-51481 N64-17670 09-17

AERODYNAMIC HEATING PARAMETER ASSOCIATED WITH SPACE VEHICLES - BIBLIOGRAPHY
SB-63-18 N64-19131 11-13

INTEGRATING NOZZLE EXPANSION SURFACES AND STRUCTURAL OR TANK SURFACES OF SPACE VEHICLES
NASA-CR-53924 N64-19926 12-27

REENTRY OF SPACE VEHICLE FRAGMENTS DURING DECAY FROM CIRCULAR ORBIT
WRE-TN-36 N64-20554 13-30

RADIOCHEMICAL EXCHANGE TECHNIQUES FOR DETECTING HYDROGEN VAPORS IN SPACE VEHICLES

APL-TDR-64-51 N64-21107 14-15

DETERMINATION OF MOTION PARAMETERS OF SPACE VEHICLE USING TRAJECTORY-MEASUREMENT DATA N64-21627 15-29

TRACKING MISSILES AND SPACE VEHICLES - ANNOTATED BIBLIOGRAPHY
AID-P-64-36 N64-22289 15-08

HANDBOOK ON SPACE VEHICLE POWER SOURCES
SSD-TDR-64-8 N64-22556 15-06

DYNAMICS OF VEHICLES - ORBITAL DECAY
FTD-TT-63-164/1&2&4 N64-22644 15-02

PITCH MOTION VARIATION OF SPACE VEHICLE DUE TO MOTION OF LIQUID FUEL SLOSHING IN PARTLY FILLED TANK
NASA-TN-D-2336 N64-23033 16-02

DESIGN CONSIDERATIONS OF LARGE SPACE VEHICLES DUE TO AXIAL OSCILLATIONS CAUSED BY ENGINE-STRUCTURAL COUPLING N64-23161 16-33

SPACE VEHICLE STRUCTURES FOR VIBRATION AND ACOUSTIC ENVIRONMENT N64-23163 16-33

UPPER ATMOSPHERIC PHENOMENA - ANNOTATED BIBLIOGRAPHY
IER-2 N64-23333 16-09

SPACE VEHICLE DATA LINK REQUIREMENTS - BIBLIOGRAPHY
SB-63-57 N64-23345 16-30

CENTAUR HIGH ENERGY SPACE VEHICLE
AIAA PAPER-64-294 N64-23351 16-31

AIRMAT STRUCTURES FOR SPACE AND LIMITED WAR APPLICATION N64-23703 16-31

ELECTROSTATIC CHARGING PROCESSES AFFECTING SPACE VEHICLES
RN-176L N64-25993 18-09

ADAPTIVE PROPERTIES IN SPACE VEHICLES THROUGH ONBOARD DIGITAL COMPUTER CONTROL
AL-TDR-64-62 N64-26171 18-30

SEMIMOBILE DRYDOCK LAUNCH SYSTEMS FOR SPACE MISSIONS
LMSC-B086121-1 N64-26252 18-10

GUIDELINES OF PROBABLE TERRESTRIAL ENVIRONMENTAL DATA FOR SPACE VEHICLE DEVELOPMENT
NASA-TM-X-53023 N64-26359 18-21

BLAST WAVE THEORY APPLIED TO METEOROID IMPACTS WITH SPACE VEHICLES
NASA-CR-58059 N64-26362 18-05

ELECTRIC POWER CONVERSION, GENERATION, CONTROL, & TRANSMISSION FOR SPACE VEHICLES
NASA-CR-58051 N64-27879 20-06

THERMAL SCALE MODELING FOR SPACE VEHICLES - THERMALLY SIMILAR MODEL DERIVED FROM MATHEMATICAL MODEL OF PROTOTYPE
NASA-RP-300 N64-28706 20-13

FLUSH SURFACE-MOUNTED ANTENNAS WITH SPECIFIED RADIATION FIELDS FOR SPACE VEHICLES
NASA-CR-58345 N64-28737 20-08

RADIO FREQUENCY NOISE GENERATION FROM SPACE VEHICLES
NASA-CR-58489 N64-28760 20-23

SYSTEM FOR DETECTION OF MICROMETEOROID PENETRATION DAMAGE AND INFRARED OR VISIBLE RADIATION DAMAGE TO SPACE VEHICLE
NASA-CR-58528 N64-28883 20-33

DECREASE IN SOLAR CELL THICKNESS FOR PHOTOVOLTAIC SOLAR ENERGY CONVERSION SYSTEMS IN SPACE VEHICLES N64-29167 21-06

EXTRATERRESTRIAL ENVIRONMENTS, VEHICLE SYSTEMS FOR INTERPLANETARY FLIGHT, LANDING PROPULSION SYSTEMS, LUNAR LANDING IMPACT DEVICES, AND PROPELLANT STORAGE
NASA-CR-58035 N64-29187 21-29

SUPPORT SYSTEMS AND EXCITATION TECHNIQUES FOR DYNAMIC MODELS OF SPACE VEHICLE STRUCTURES N64-29259 21-33

ROCKET THRUST STAND SIMULATION OF SPACE VEHICLE FLIGHT DYNAMICS BY ELECTROMECHANICAL SYSTEM
AEDC-TDR-64-163 N64-29442 21-18

SPACE VEHICLE LAUNCH OPERATIONS - RESEARCH, COMMUNICATIONS, AND COMPUTER PROGRAMMING
NASA-TM-X-51925 N64-29523 21-10

HIGH FREQUENCY RESISTANCE WELDING PROCESS FOR SPACE VEHICLE AND LAUNCH VEHICLE MATERIALS
NASA-CR-58562 N64-29566 21-17

OPTIMIZATION THEORY OF EARTH ASCENT TRAJECTORY OF SPACE VEHICLE APPLIED TO ROCKETS AND STATOREACTORS N64-29780 21-27

DIFFERENTIATION BETWEEN NUCLEAR AND CHEMICAL PROPULSION SYSTEMS IN SPACE VEHICLES
NASA-CR-52961 N64-29782 21-27

STANDARDIZED TERMS FOR DESIGNATIONS OF SPACE VEHICLES
CNES-NT-1 N64-29892 21-29

PROCESS IDENTIFICATION, SYNTHESIS, AND SELF-ADAPTIVE CONTROL OF ADVANCED AEROSPACE VEHICLES
ASD-TDR-63-854 N64-29973 21-06

BOUNDARY VALUE FORMULATION OF SPACE VEHICLE GUIDANCE PROBLEM
NASA-TM-X-53100 N64-30192 21-22

EUROPEAN SPACE PROGRAM - ENVIRONMENTAL CONDITIONS OF SPACE VEHICLE FROM MANUFACTURE TO ORBITAL LAUNCH - DIAMANT AND ELDO LAUNCHERS
MEMO-2 N64-31350 23-10

QUANTIZED DATA ATTITUDE CONTROL SYSTEM FOR SPACE VEHICLE
SSD-TDR-64-104 N64-31633 23-06

REDUCTION OF FOLD-OVER ERRORS IN FLUX-GATE MAGNETOMETERS
NASA-TN-D-2159 N64-31729 23-15

CONSTANT LINEAR DYNAMICAL SYSTEMS WITH BANG-BANG CONTROLLER - COMPUTER SIMULATION OF ATTITUDE CONTROL FOR SPINNING SPACE VEHICLE
NASA-TR-R-200 N64-31732 23-09

CARBON DIOXIDE REDUCTION, ATMOSPHERIC REGENERATION SYSTEMS, AND WATER RECOVERY FOR LONG MISSION MANNED SPACE VEHICLE
SSD-TDR-64-95 N64-31979 23-14

CREW STATION DESIGN CRITERIA FOR SPACE VEHICLES - PRESSURE SUIT REQUIREMENTS, POTENTIAL HAZARDS, AND IN-FLIGHT MAINTENANCE
SID-64-997 N64-32201 23-32

SHOCK WAVE AND METEORITIC DAMAGE CONTROL IN SELF-SEALING STRUCTURES OF SPACE VEHICLES
NASA-CR-120 N64-32434 23-34

ALUMINUM WELDING TECHNIQUES FOR SPACE VEHICLE APPLICATIONS
NASA-SP-5009 N64-32642 23-17

NUMERICAL PROCEDURES FOR STABILITY STUDIES OF LARGE SPACE VEHICLES WITH COMPLEX CONTROL SYSTEMS N64-32643 23-30

TEST FACILITY FOR SIMULATION OF LIQUID IMPACT IN SPACE VEHICLE AND BOOSTER TANK
NASA-CR-59016 N64-32897 24-11

STRUCTURAL DESIGN, VIBRATION MEASUREMENT SYSTEM, THERMOCOUPLE, TRAJECTORY, DISPERSION, AND SAFETY DATA FOR AEROTHERMODYNAMIC AND AEROTHERMOELASTIC SPACE VEHICLE - ASSET PROGRAM

HPL-26 N64-32926 24-31

RADIATION EXPOSURE ON FIELD EFFECT TRANSITORS USED IN SPACE VEHICLES
NASA-CR-59200 N64-33213 24-09

PERFORMANCE PREDICTION FOR LUNAR LOGISTIC VEHICLE WITH NUCLEAR-ELECTRIC PROPULSION
AIAA PAPER-64-497 N64-33638 24-32

SPACE PROGRAM - HIGH THRUST BOOSTERS WITH GREATER PAYLOAD CAPABILITIES, SUPERIOR GUIDANCE AND CONTROL, AND ASTRONAUT TRAINING
EP-6 REV. N64-33740 24-32

VACUUM & NUCLEAR RADIATION EFFECTS ON RESISTANCE OF ENGINEERING MATERIALS FOR SPACE VEHICLES & REACTOR ACCESSORY HARDWARE
NASA-RP-349 N64-33987 24-17

SPACE VEHICLE CONTROL
STABILITY OF SPACE VEHICLE IN BENDING OSCILLATIONS FOR CONTROL SENSORS
NASA-TM-X-51081 N64-10106 01-30

SELECTION OF SIGNALS FOR SPACE VEHICLE COMMAND SYSTEM
NASA-CR-55086 N64-12157 03-08

ADAPTIVE ATTITUDE CONTROL SYSTEM FOR SPACE VEHICLES
NASA-CR-53109 N64-16748 08-22

IN-ORBIT GUIDANCE AND ATTITUDE CONTROL OF SPACE VEHICLES
W-6374 N64-19813 12-22

ATTITUDE CONTROL OF MANNED SPACECRAFT PERFORMING ORBITAL TRANSFER, RENDEZVOUS, & LIFTING REENTRY MANEUVERS
FDL-TDR-64-32 N64-20084 13-30

SPACE VEHICLE CONTROL - STRUCTURAL VIBRATIONS, PROPELLANT SLOSHING, & VEHICLE STABILITY
N64-20710 13-30

ATTITUDE CONTROL SYSTEM FOR SPIN STABILIZED SPACE VEHICLES
NASA-RP-230 N64-25601 17-15

TWIN-GYRO ATTITUDE CONTROL SYSTEM FOR SPACE VEHICLES
NASA TN D-2419 N64-27121 19-06

LUNAR LANDING SITE SELECTION AND VEHICLE GUIDANCE BY EARTH BASED CONTROL N64-29353 21-06

SPACECRAFT
SA APOLLO SPACECRAFT
SA GEMINI SPACECRAFT
SA INFLATABLE SPACECRAFT
SA INTERPLANETARY SPACECRAFT
SA LUNAR SPACECRAFT
SA MANEUVERABLE SPACECRAFT
SA MANNED SPACECRAFT
SA MARS I SPACECRAFT
SA PLANETARY SPACECRAFT
SA REENTRY VEHICLE
SA REUSABLE SPACECRAFT
SA SPACECRAFT COMMUNICATION
SA SPACECRAFT CONSTRUCTION MATERIAL
SA SPACECRAFT CONTAMINATION
SA SPACECRAFT CONTROL
SA SPACECRAFT ELECTRONIC EQUIPMENT
SA SPACECRAFT ENVIRONMENT
SA SPACECRAFT GUIDANCE
SA SPACECRAFT INSTRUMENTATION
SA SPACECRAFT MANEUVER
SA SPACECRAFT MOTION
SA SPACECRAFT ORBIT
SA SPACECRAFT PERFORMANCE
SA SPACECRAFT POWER SUPPLY
SA SPACECRAFT PROPULSION
SA SPACECRAFT RADIATOR
SA SPACECRAFT RELIABILITY
SA SPACECRAFT SENSOR
SA SPACECRAFT SHIELDING
SA SPACECRAFT STABILITY
SA SPACECRAFT STRUCTURE
SA SPACECRAFT TRAJECTORY
SA UNMANNED SPACECRAFT
CF SATELLITE
CF SPACE CAPSULE
CF SPACE VEHICLE
FEASIBILITY OF MAINTAINING ORBITING SPACECRAFT USING ORBITAL WORKERS AND SPECIAL REPAIR VEHICLES
NASA-CR-55072 N64-12163 03-30

EMERGENCY LIFE SUSTAINING SYSTEM FOR USE DURING FAILURE OF NORMAL PRESSURIZATION IN SPACECRAFT
AMRL-TDR-63-82 N64-12214 03-16

PARAMETERS GOVERNING DESIGN OF PRESSURIZED-GAS SYSTEMS FOR SPACECRAFT
NASA-CR-53393 N64-18107 10-17

AEROSPACE TECHNOLOGY AND SPACECRAFT PROGRAMS - BIBLIOGRAPHY
CSR-169/9990/FBR-1 N64-20569 13-01

TEMPERATURE CONTROL ENGINEERING OF NUCLEAR-ELECTRIC SPACECRAFT
ARS PAPER-2392-62 N64-22465 15-27

TOLERANCE TO VEHICLE ROTATION OF ASTRONAUTS USING TURNING AND NODDING MOTION OF HEAD WHILE PERFORMING SIMPLE TASKS
AIAA PAPER-64-218 N64-23608 16-14

EXPANDABLE SPACECRAFT DESIGN, MISSION REQUIREMENTS, AND BOOSTER CAPABILITIES
N64-23702 16-31

HORIZON SENSING FOR SPACECRAFT ATTITUDE DETERMINATION
NASA-TM-X-956 N64-23902 16-15

EQUATIONS FOR THRUST-ALTITUDE-PITCH PROGRAM TO MINIMIZE PROPELLANT CONSUMPTION FOR SPACECRAFT ASCENDING IN VACUUM
SSD-TDR-64-120 N64-26229 18-29

MINIMUM POWER DIGITAL CIRCUITS FOR MARINER II AND OTHER SPACECRAFT N64-26446 18-09

RADIO COMMUNICATION WITH SPACE ROCKET
JPRS-25847 N64-27064 19-08

NIMBUS SATELLITE - SPACECRAFT, SUBSYSTEMS, AND LAUNCH VEHICLE N64-27504 19-32

DETERMINATION OF MAGNETIC PROPERTIES OF ELECTRONIC COMPONENTS OF SPACECRAFTS
NASA-CR-56452 N64-27899 20-09

NICKEL CADMIUM SEALED BATTERY CELLS FOR USE IN SPACECRAFT
NASA-CR-58202 N64-27902 20-06

DESCRIPTION AND OPERATION OF SPACECRAFT IN SPACE ELECTRIC ROCKET TEST /SERT/ THRUSTOR FLIGHT TEST
NASA-TM-X-52050 N64-28074 20-32

RADIATION DOSIMETRY ABOARD MERCURY /MA-8/ SPACECRAFT
NASA-TN-D-1862 N64-28320 20-16

DEEP SPACE NETWORK - PRECISION CONTROL AND COMMUNICATION SYSTEM FOR SPACECRAFT
NASA-CR-58556 N64-29356 21-08

AIRCRAFT FOR COMMERCIAL AVIATION, AND PERFORMANCE PREDICTIONS FOR PASSENGER TRANSPORTATION IN HYPERSONIC AND ORBITAL SPACECRAFT
FTD-TT-63-890/1&2 N64-29591 21-04

CONFERENCE ON BIOASTRONAUTICS - WEIGHTLESSNESS, SPACECRAFT STERILIZATION, ASTHENOPIA IN RADAR OBSERVERS, & HYPOBARIC ADAPTATION BY PERSONNEL
FTD-TT-64-556/1&2&3&4 N64-30163 21-29

SPACE RADIATION PROTECTION IN SPACECRAFT
N64-30719 22-16

EQUATIONS OF MOTION OF SPACECRAFT IN NEWTONIAN FORCE FIELD FOR CONSTANT REACTION ACCELERATION VECTOR N64-31526 23-29

SPACECRAFT APPLICATIONS OF SUBLIMING MATERIALS - BIPHENYL, CAMPHOR, AND NAPHTHALENE
TG-593 N64-33016 24-25

SOLDERING FOR HIGH RELIABILITY ELECTRICAL CONNECTIONS IN SPACECRAFTS
NASA-TM-X-54760 N64-33034 24-17

MANUAL ON LAUNCHING OF EPE-D SPACECRAFT
NASA-TM-X-55103 N64-33568 24-10

REACTOR CONTROL APPLICABLE TO NUCLEAR SPACECRAFT
NASA-CR-52944 N64-33781 24-27

SPACECRAFT COMPONENT
FEASIBILITY OF LARGE FOLDING BOOMS FOR SPACECRAFT APPLICATIONS
NASA-TM-X-941 N64-12875 04-06

ATTENUATION OF SOLAR FLARE BY ALUMINUM SHIELD - SPACE VEHICLE SHIELDING
ORNL-3549 N64-15995 07-23

MEASURING DEMAND FOR RECOVERABLE SPACECRAFT COMPONENT
RM-3824-PR N64-16047 07-01

ADAPTATION OF MOLYBDENUM SULFIDE IN SITU PROCESS FOR LUBRICATING SPACECRAFT MECHANICAL COMPONENTS
N64-19364 12-17

CONTROLLED CONTAMINATION OF SEALED ELECTRONIC COMPONENTS FOR STUDY OF SPACECRAFT STERILIZATION PROCEDURES
SAM-TDR-63-73 N64-25040 17-16

SPACECRAFT CONFIGURATION
DRAG AND STABILITY INVESTIGATIONS OF MARINER-B SHAPE A-1 AND JPL CONFIGURATION V-1 AT VELOCITIES FROM 13,000 TO 18,000 FPS IN VARYING ATMOSPHERES
NASA-CR-55543 N64-16321 08-29

PRESSURE DATA FOR MACH 5 FLOWS OVER WINGED REENTRY CONFIGURATION COMPOSED OF DELTA WING MOUNTED, CONICALLY CAPPED CYLINDRICAL CABIN
RTD-TDR-63-4179, PT. 2 N64-17654 09-04

SUBSYSTEMS FOR MARS MISSION MODULE
N64-26988 19-29

SPACECRAFT CONTROL
EMITTANCE MEASUREMENT TECHNIQUES AND REQUIRED PROPERTIES FOR SPACECRAFT THERMAL CONTROL SURFACES
N64-10943 02-13

GROUND AND FLIGHT TESTS OF SOLAR ORIENTATION CONTROL SYSTEM FOR SPACECRAFT
NASA-TM-X-944 N64-12712 04-22

ELECTRIC MACHINERY FOR LONGTIME ATTITUDE CONTROL OF SPACE VEHICLES
NASA-TM-X-51373 N64-13064 04-06

SPACECRAFT CONTROL MECHANISMS
FTD-TT-63-718/1&2 N64-16386 08-22

MOMENTUM EXCHANGE-TYPE ATTITUDE CONTROL SYSTEM FOR SPACECRAFT ON EXTENDED MISSION
NASA-CR-53556 N64-18302 10-30

SPACECRAFT ATTITUDE CONTROL FOR EXTENDED MISSIONS
NASA-CR-53555 N64-18303 10-30

DEEP SPACE NETWORK PRECISION COMMUNICATION SYSTEM FOR SPACECRAFT CONTROL
NASA-CR-56786 N64-25676 17-08

FLUID POWER CONTROL DEVICES FOR AEROSPACE SYSTEMS
REPT.-8998-7 N64-26886 18-06

DIGITAL COMPUTER PROGRAM FOR SPACE FLIGHT CONTROL AND INSTRUMENTATION PROBLEMS
ASD-TDR-63-259 N64-30823 22-20

SPACECRAFT DESIGN
WIND PROFILE MEASUREMENTS FOR SPACECRAFT DESIGN
AIAA PAPER-63-296 N64-10308 01-02

SPACE ENVIRONMENT EFFECT ON SPACECRAFT DESIGN
N64-14572 06-29

ENVIRONMENTAL FACTORS AFFECTING DESIGN OF ORBITING REENTRY VEHICLES
ER-673, VOL. 2 N64-15194 07-30

INFLATABLE MATERIAL OR EXPANDABLE STRUCTURES FOR SPACECRAFT DESIGN WITH EMPHASIS ON MANNED SPACE STATIONS N64-23714 16-31

SPACECRAFT AND SUBSYSTEMS DESIGN FOR ADVANCED ORBITING SOLAR OBSERVATORY /AOSO/
AIAA PAPER-64-333 N64-24903 17-32

WIND PROFILES AND MISSILE AND SPACECRAFT DESIGN
NASA-RP-237 N64-26402 18-21

MISSILE AND SPACECRAFT DESIGN - OPTIMUM DESIGN OF COLUMNS SUBJECTED TO STEADY STATE AND CYCLIC LOADS
N-20288-T N64-27037 19-34

METABOLIC INTERCHANGES OF MAN FOR DESIGN OF SPACE VEHICLES
SM-45905 N64-27338 19-16

SPACECRAFT ELECTRONIC EQUIPMENT
SPECIFICATION OF MATERIALS FOR LOW LEVEL ELECTRICAL CONTACTS - SPACE VEHICLE AND GROUND SUPPORT EQUIPMENT
NASA-CR-53901 N64-19901 12-09

SPACECRAFT TEMPERATURE CONTROL SYSTEM WITH THERMOSTATIC FINS - SPACECRAFT ELECTRONIC EQUIPMENT
NASA-CR-91 N64-27758 19-30

SPACECRAFT ENVIRONMENT
CF CLOSED ECOLOGICAL SYSTEM
ENVIRONMENTAL FACTORS IN SPACE CABIN FIRE HAZARD - IGNITION AND FLAME PROPAGATION N64-20745 14-26

EFFECTS OF SPACE CABIN ATMOSPHERE ON FLAMMABILITY OF FABRICS AND CARBONACEOUS SOLIDS
N64-20746 14-26

EFFECTS OF SPACE CABIN ATMOSPHERE ON FLAMMABILITY OF LIQUIDS AND GASES N64-20747 14-26

EFFECTS OF ATMOSPHERIC ENVIRONMENT ON ELECTRICAL FIRE HAZARDS N64-20748 14-26

ROLE OF FIRE AND BLAST HAZARDS IN SELECTION OF SPACE CABIN ATMOSPHERE N64-20751 14-26

RADIATION INDUCED DISCOLORATION OF METAL SURFACES IN SPACECRAFT ENVIRONMENT
TR-63-414-1 N64-20888 14-23

FORMATION OF ARTIFICIAL ENVIRONMENT IN SPACESHIP CABIN N64-23739 16-16

ENVIRONMENT OF SPACESHIP CABIN OR ORBITAL STATION
N64-23745 16-16

PHYSICAL EFFICIENCY OF ASTRONAUTS IN SPACECRAFT ENVIRONMENT N64-23757 16-16

SUSPENSION OF UNICELLULAR ALGAE AS COMPONENT OF CLOSED CYCLE FOR CREATION OF NORMAL HUMAN ACTIVITY CONDITIONS IN LONG-TERM SPACE FLIGHTS
N64-23768 16-16

HEAT SHIELD/STRUCTURE INTERFACE PROBLEMS PRODUCED BY ENVIRONMENT ASSOCIATED WITH APOLLO LUNAR FLIGHT
LMSC-5-10-63-17 N64-32343 23-13

SPACECRAFT ENVIRONMENTAL ACOUSTIC TEST FACILITY - LISTENING FATIGUE AND COMFORT
AD-442827 N64-32376 23-16

SPACECRAFT GUIDANCE
BIBLIOGRAPHY OF NAVIGATION, GUIDANCE, CONTROL, AND SPACECRAFT REENTRY
LR-17100 N64-11412 02-22

TWO-BODY SPACECRAFT GUIDANCE IN CISLUNAR SPACE OF EARTH-MOON TRAJECTORY
NASA-CR-55031 N64-12033 03-21

SENSOR AND GUIDANCE CONTROL METHODS FOR SPACE MISSIONS
NASA-CR-55075 N64-13013 04-22

MULTIFUNCTION SENSORS FOR SPACE VEHICLE GUIDANCE & NAVIGATION
RTD-TDR-63-4049 N64-13127 04-22

NEW ANTENNA TECHNIQUES FOR AEROSPACE VEHICLE DOPPLER VELOCITY SENSORS
P63-74 N64-13128 04-09

DYNAMIC PROGRAMMING OF TIMING OF MIDCOURSE GUIDANCE MANEUVERS OF SPACECRAFT FOR MINIMIZING FINAL ERROR
NASA-CR-53000 N64-13281 04-29

ACCELEROMETERS FOR SPACECRAFT GUIDANCE
N64-18276 10-22

GUIDANCE OF LIFTING VEHICLES ONTO REFERENCE TRAJECTORY DURING ATMOSPHERIC ENTRY
NASA-TR-R-151 N64-21429 14-30

SOLAR SAIL - OPTIMUM GUIDANCE FOR FLIGHTS FROM ORBIT OF EARTH TO ORBITS OF OTHER PLANETS
N64-23857 16-29

BOUNDARY VALUE PROBLEM IN SPACECRAFT GUIDANCE
NASA-TM-X-53059 N64-27240 19-22

GUIDANCE REQUIREMENTS FOR UNMANNED PLANETARY LANDING
AIAA PAPER-64-645 N64-27672 19-29

SPACECRAFT ON-BOARD OPTICAL GUIDANCE SYSTEM FOR PLANETARY APPROACH AND LANDING
NASA-CR-58236 N64-29004 20-22

EARTH-BASED GUIDANCE OF UNMANNED LUNAR AND INTERPLANETARY SPACECRAFT
JPL-TR-32-472 N64-32824 24-29

SPACECRAFT LANDING
ANALYTICAL TECHNIQUES TO DETERMINE OPTIMUM WEIGHT AND PERFORMANCE OF IDEAL SPACECRAFT LANDING SYSTEM USING SOLID STRUCTURAL MATERIALS TO ABSORB ENERGY
NASA-CR-53320 N64-17764 09-30

SPACECRAFT REENTRY AND LANDING - SOVIET COMPARISON WITH MERCURY CAPSULES
FTD-MT-63-141 N64-18684 11-32

MATERIALS TO ABSORB IMPACT ENERGY OF SPACECRAFT DURING LANDING
NASA-TM-X-54070 N64-27246 19-34

SPACECRAFT MODEL
LENS-REFLECTOR COMMUNICATIONS SATELLITE MODEL
GER-11123 N64-12189 03-32

HEAT TRANSFER MEASUREMENTS AND SCALING PROBLEM IN SPACECRAFT MODEL
NASA-CR-53455 N64-18131 10-13

EXPERIMENTAL THERMAL SCALING LAWS APPLIED TO SPACECRAFT
NASA-CR-56624 N64-27394 19-13

SPACECRAFT ORBIT
SPACECRAFT DECELERATION BY AERODYNAMIC BRAKING TO ESTABLISH ORBIT ABOUT MARS
AIAA PAPER-64-479 N64-24812 17-29

VEHICLE TRACKING TRANSMITTER USED WITH VEHICLE MASTER OSCILLATOR AND FREQUENCY SYNTHESIZER
NASA-CR-58699 N64-29506 21-08

SPACECRAFT PERFORMANCE
SPACE VEHICLE DYNAMICS - OPTIMAL CONTROL OF TRANSFER TIME N64-13338 04-29

QUICK LOOK ANALYSIS PROGRAM /QLAP/ REQUIREMENTS FOR PROCESSING PULSE CODE MODULATION /PCM/ DATA FOR GEMINI VEHICLE PERFORMANCE CALCULATIONS
TOR-469/A5126-10/-1 N64-29445 21-20

SPACECRAFT POWER SUPPLY
USES FOR HYDROGEN PEROXIDE IN SPACECRAFT POWER SUPPLIES N64-10148 01-26

LIQUID METALS AS HEAT TRANSFER AND THERMODYNAMIC WORKING FLUIDS FOR AEROSPACE ELECTRIC POWER SUPPLY
N64-10176 01-18

POWER SOURCE FOR TELSTAR SATELLITE FROM SOLAR GENERATING PLANT N64-11085 02-06

BRUSHLESS ROTATING ELECTRICAL GENERATORS FOR SPACE AUXILIARY POWER SYSTEMS - MAGNETIC STEEL
NASA-CR-52916 N64-11742 03-18

UPPER ATMOSPHERIC INVESTIGATION BY SATELLITES AND ROCKETS N64-11849 03-12

ANNOTATED BIBLIOGRAPHY OF AUXILIARY POWER SYSTEMS FOR SPACECRAFT - SOLAR AND NUCLEAR AUXILIARY POWER SOURCES
SB-63-46 N64-12674 04-06

EVALUATION OF REFRACTORY METAL ALLOYS FOR ALKALI METAL SPACE ELECTRIC POWER SYSTEMS
NASA-CR-52347 N64-13012 04-18

DESIGN OF ORBITAL HYDROGEN-OXYGEN CAPILLARY TYPE FUEL CELL - OPERATION AND VIBRATION TESTING OF PACKAGE AND COMPONENTS
AD-423722 N64-13104 04-06

COBALT-BASE ALLOY INVESTIGATION FOR APPLICATION TO TURBOELECTRIC SPACE-POWER SYSTEMS
NASA-RP-116 N64-13351 04-18

CELL EQUALIZATION TECHNIQUES FOR SPACECRAFT POWER SUPPLIES HAVING ALKALINE BATTERY CELLS COUPLED WITH SOLAR CELLS
RTD-TDR-63-4187 N64-13819 05-06

APPLICATION OF HARTREE-FOCK SECOND ORDER DISTURBANCES CALCULATION FOR BERYLLIUM SYSTEMS
NASA-CR-55768 N64-16012 07-06

NONMAGNETIC, SEALED, LOW RATE SILVER-OXIDE-ZINC CELLS AS SPACECRAFT COMPONENTS
NASA-CR-55770 N64-16015 07-06

TURBULENCE IN LUBRICANT FOR TURBOMACHINES - SPACECRAFT POWER SUPPLY
NASA-CR-55803 N64-16034 07-17

SOLID ELECTROLYTE FUEL CELL FOR SPACECRAFT ELECTRIC POWER SUPPLY
ASD-TDR-63-448 N64-16060 07-06

FEASIBILITY OF SOLID ELECTROLYTE FUEL CELLS FOR AEROSPACE APPLICATION
AD-283434 N64-16101 07-06

ZINC-SILVER OXIDE BATTERY DEVELOPMENT FOR SPACE POWER SUPPLIES
NASA-CR-55634 N64-16329 08-06

SEALED NICKEL-CADMIUM BATTERY SYSTEMS FOR SPACE APPLICATIONS
NASA-CR-55845 N64-16699 08-06

NUCLEAR LIQUID METAL CELL SYSTEM FOR SPACE POWER SUPPLIES N64-17411 09-06

SNAP PROGRAM - SPACE APPLICATIONS
TID-20103 N64-17533 09-06

PRIMARY AND SECONDARY ELECTROCHEMICAL CELLS FOR SPACE VEHICLE POWER SUPPLIES N64-17997 10-06

THREE SEALED BATTERY SYSTEMS - NICKEL-CADMIUM, SILVER-CADMIUM, AND SILVER-ZINC FOR SPACECRAFT POWER USE
NASA-SP-5004 N64-18052 10-06

CORROSION TEST LOOPS FOR EVALUATING REFRACTORY ALLOYS FOR USE IN SPACE ELECTRIC POWER SUPPLY SYSTEMS
NASA-CR-54008 N64-19222 11-18

SPACECRAFT POWER SUPPLY - THERMOELECTRIC CONVERTER FOR SNAP-10A SYSTEM N64-19380 12-06

VOLTAGE AND CAPACITY STUDIES OF ELECTROLYTES FOR SILVER-CADMIUM BATTERY IN SPACE APPLICATION
NASA-CR-53832 N64-19593 12-06

HIGH TEMPERATURE THERMOELECTRIC GENERATORS WITH NUCLEAR & SOLAR HEAT SOURCES FOR SPACECRAFT POWER SUPPLY
AD-437280 N64-20024 13-09

RADIOISOTOPE FUELED AUXILIARY POWER UNIT FOR ADVANCED RECONNAISSANCE SPACECRAFT
MND-1123 N64-20195 13-06

CAPILLARY TYPE HYDROX FUEL CELL FOR ENERGY SOURCE ON SPACE VEHICLES
AD-439670 N64-21033 14-30

DESIGN CRITERIA FOR LONG LIFE ZINC-POTASSIUM HYDROXIDE-MERCURIC OXIDE-SILVER ELECTROCHEMICAL CELL FOR AEROSPACE APPLICATION
ASD-TDR-62-1112 N64-22696 15-06

THERMIONIC CONVERTERS FOR SPACE POWER
N64-22977 16-09

CRYOGENIC STORAGE FOR SPACE ELECTRIC POWER SUPPLY
NASA-RP-220 N64-23914 16-30

CREEP TEST DATA ON REFRACTORY ALLOYS AT HIGH TEMPERATURES FOR SPACE ELECTRIC POWER SYSTEMS
NASA-CR-54048 N64-23934 16-18

SPACECRAFT COMMUNICATION, GUIDANCE AND CONTROL, MARS TRAJECTORY, POWER SYSTEM, AND STRUCTURAL MATERIALS N64-24230 16-01

ELECTRICAL CONDUCTOR, ELECTRICAL INSULATION, BORE SEAL AND MAGNETIC MATERIALS FOR SPACE POWER SYSTEMS APPLICATION
NASA-CR-54089 N64-25010 17-17

SYNCOM II ELECTRICAL POWER SYSTEM
AIAA PAPER-64-456 N64-25047 17-09

LIFETIME CYCLING TESTS OF BATTERIES FOR SPACECRAFT POWER SUPPLIES
NASA-CR-56478 N64-27379 19-06

SOLAR CELL ARRAYS FOR ELECTRICAL POWER GENERATION IN SPACE
AIAA PAPER-64-738 N64-29602 21-06

ELECTRIC POWER CONVERSION FOR SPACE VEHICLES
N64-30448 22-06

ADVANCED PROPULSION CONCEPTS - SYMPOSIUM
N64-31601 23-27

ONE MEGAWATT TURBONUCLEAR SPACE POWER SYSTEM FOR ELECTRIC PROPULSION N64-31610 23-06

MAGNETOHYDRODYNAMIC POWER GENERATION FOR PLASMA PROPULSION N64-31611 23-06

THERMIONIC-NUCLEAR SPACE POWER SYSTEMS FOR ELECTRIC PROPULSION N64-31612 23-06

GASEOUS CORE REACTORS FOR NUCLEAR POWERED SPACE PROPULSION N64-31613 23-27

DESIGN MANUALS AND FORTRAN COMPUTER PROGRAMS FOR BRUSHLESS ROTATING ELECTRIC GENERATORS IN SPACE AUXILIARY POWER SYSTEM
NASA-CR-54101, VOL. 1 N64-31713 23-06

DESIGN MANUALS AND FORTRAN COMPUTER PROGRAMS FOR BRUSHLESS ROTATING ELECTRIC GENERATORS IN SPACE AUXILIARY POWER SYSTEM
NASA-CR-54101, VOL. 2 N64-31714 23-06

DESIGN MANUALS AND FORTRAN COMPUTER PROGRAMS FOR BRUSHLESS ROTATING ELECTRIC GENERATORS IN SPACE AUXILIARY POWER SYSTEM
NASA-CR-54101, VOL. 3 N64-31715 23-06

METEOROID PROTECTION FOR SPACE POWER SYSTEMS
NASA-TM-X-52051 N64-32789 24-33

SPACECRAFT PROPULSION
SUMMARY AND PROPULSION DESIGN GUIDE FOR SOFT LANDING IN EXTRATERRESTRIAL ENVIRONMENTS
NASA-CR-52486 N64-10623 01-27

RADIOISOTOPES FOR ELECTROSTATIC PROPULSION OF SMALL SPACE VEHICLES N64-11397 02-27

EFFECT OF NOZZLE EXPANSION RATIO INCREASE ON HEAT TRANSFER, CHEMICAL KINETICS, WALL FRICTION AND NOZZLE GEOMETRY - SPACECRAFT ENGINE PERFORMANCE
NASA-CR-52870 N64-11438 02-27

PROPULSION REQUIREMENTS FOR SOFT LANDING IN EXTRATERRESTRIAL ENVIRONMENTS - ANALYSIS OF LUNAR AND EARTH-MERCURY MISSIONS
NASA-CR-55088 N64-13375 04-29

PROPULSION, ENGINEERING, FLIGHT COMPUTING, SYSTEM ANALYSIS, AND GUIDANCE AND CONTROL OF SPACECRAFT MECHANICS IN SPACE RESEARCH
NASA-CR-53456 N64-18102 10-01

ELECTRICAL PROPULSION FOR PLANETARY AND INTER-PLANETARY SPACECRAFT
NASA-CR-53531 N64-18216 10-30

CHARGED PARTICLE PROPULSION - DOUBLE ENERGY CONVERSION PROBLEM AND APPLICATION TO ELECTRIC PROPULSION SYSTEM FOR SPACE VEHICLES N64-19840 12-27

LARGE ARC JET THRUSTOR FOR SPACECRAFT ELECTRIC PROPULSION SYSTEM
FRO24-10338 N64-24188 16-27

CREATING BEAMS OF HIGH-SPEED IONS BY CONTACT IONIZATION THRUSTORS AND ELECTRON BOMBARDMENT THRUSTORS FOR ELECTRIC PROPULSION OF SPACECRAFT
NASA-RP-290 N64-28946 20-27

ION AND PLASMA TECHNOLOGY FOR SPACE PROPULSION, POWER GENERATION, AND NUCLEAR FUSION APPLICATIONS N64-32774 24-24

SPACECRAFT RECOVERY
PARAMETRIC ANALYSIS OF LAUNCH VEHICLE RECOVERY TRADE-OFFS
TDR-269/4515-10/-2 N64-12582 04-30

HELICOPTER-TYPE ROTORS FOR DECELERATION, TRAJECTORY CONTROL, GLIDING DESCENT, AND RECOVERY OF AEROSPACE PAYLOADS
ASD-TDR-63-514 N64-20360 13-04

SPACECRAFT REENTRY
SPACECRAFT REENTRY AND LANDING - SOVIET COMPARISON WITH MERCURY CAPSULES
FTD-MT-63-141 N64-18684 11-32

HIGH SPEED THERMAL RADIATION AND CONVECTIVE HEAT TRANSFER FOR SPACECRAFT REENTRY AND ENTRY STUDIES
NASA-CR-53665 N64-19609 12-13

SPACECRAFT RENDEZVOUS
SOLID-STATE DOPPLER RADAR FOR SPACE RENDEZVOUS AND PLANETARY LANDINGS N64-16188 08-08

ENERGY-OPTIMAL TRAJECTORIES FOR TERMINAL PHASE OF SATELLITE RENDEZVOUS
NASA-TR-R-175 N64-21258 14-29

SPACECRAFT SHIELDING
MATERIAL TESTING FOR ABLATION SHIELD - BERYLLIUM PRODUCTION FOR ADHESIVE BONDING
A471 N64-16879 08-13

MATERIAL TESTING FOR LIGHTWEIGHT ABLATION SHIELD
A472 N64-16880 08-13

GAMMA RADIATION TO DETERMINE SHIELDING EFFECTIVENESS OF SPACE VEHICLES AND USE OF RADIO ISOTOPES FOR FRACTURE STUDIES
TID-7689 N64-18797 11-23

GAMMA RADIATION TRANSMISSION TO DETERMINE SHIELDING EFFECTIVENESS OF SPACE VEHICLES N64-18798 11-23

SHIELDING FLIGHT VEHICLE AGAINST ELECTROMAGNETIC INTERFERENCE DURING TEST N64-22841 16-09

CONFINED ELECTROMAGNETIC FIELD SHIELDING OF SPACECRAFT - ACTIVE SHIELDING OF IONIZED RADIATION IN SPACE
NASA-CR-58950 N64-31552 23-34

GAMMA PROBING TO DETERMINE SHIELDING EFFECTIVENESS OF SPACE VEHICLES
NASA-CR-38783 N64-32887 24-28

SPACECRAFT STABILITY
FLUID OSCILLATION IN SPACE VEHICLE AND EFFECT ON VEHICLE STABILITY
NASA-TR-R-187 N64-14941 06-11

GRAVITATIONAL STABILIZATION SYSTEM OF SATELLITE N64-23856 16-23

SPACECRAFT STRUCTURE
RIGID AND FOLDABLE METEOROID PROTECTION SYSTEMS FOR SPACE VEHICLES N64-10114 01-32

SUPPORTING STRUCTURE OF SPACE-VEHICLE STABILIZED PLATFORM - MINIMIZING WEIGHT OF SUPPORTING GIMBALS
NASA-CR-55263 N64-13402 04-30

PHYSICAL CONDITIONS IN EXTRATERRESTRIAL SPACE AND EFFECT OF LOW GAS DENSITIES ON SPACECRAFT SURFACE MATERIALS
DFL-218 N64-15024 07-29

SINUSOIDAL VIBRATION TESTING OF NONLINEAR SPACECRAFT STRUCTURES N64-20262 13-33

MAGNESIUM-LITHIUM ALLOYS FOR MISSILE AND SPACE STRUCTURAL APPLICATIONS N64-23512 16-18

ELASTIC RECOVERY CONCEPT FOR EXPANDABLE SPACE STRUCTURES N64-23725 16-30

VARIABLE GEOMETRY SPACE STRUCTURE N64-23726 16-30

INFLATABLE SPACE ANTENNA SYSTEM N64-23729 16-09

FUTURE RECOMMENDATIONS FOR EXPANDABLE STRUCTURES FOR SPACE APPLICATION N64-23731 16-30

MEMORY EFFECT OF POLYURETHANE FOR SPACE EXPANDABLE STRUCTURE APPLICATION N64-23733 16-19

LAUNCH VEHICLE TECHNOLOGY SUMMARY - STRUCTURE, GUIDANCE, ENGINES, PROPELLANTS, TESTING, CHECKOUT, AND LAUNCH OPERATIONS
AIAA PAPER-64-527 N64-25894 18-31

ANNOTATED BIBLIOGRAPHY ON NONMAGNETIC MATERIALS FOR USE IN SPACECRAFT N64-28211 20-25

SPACECRAFT TELEVISION
SPACE TELEVISION - AN ANNOTATED BIBLIOGRAPHY
LMSC-3-79-61-1 N64-15758 07-08

SPACECRAFT TRACKING
PRECISION TRACKING AND DATA ACQUISITION FROM SPACE PROBES BY DEEP SPACE INSTRUMENTATION FACILITY /DSIF/
NASA-CR-53833 N64-19594 12-08

RANGE AND RANGE RATE SPACECRAFT TRACKING SYSTEM
NASA-TN-D-2093 N64-21423 14-08

MAXIMUM PROBABILITY OF CHANGE OF SIGNAL EMBEDDED IN INTENSE NOISE, FOR DETECTION AND TRACKING OF SPACECRAFT
D-TDR-64-68 N64-23357 16-08

RANGER V SPACECRAFT FLIGHT PATH DETERMINATION FROM TRANSPONDER AND BEACON TRACKING DATA
NASA-CR-56567 N64-24102 16-08

PULSE RADAR APPLIED TO MISSILE AND SPACE PROGRAMS N64-24862 17-08

SPACECRAFT TRAJECTORY
TELEMETRIC COMMUNICATION WITH AND CONDITIONS IN MARS-1 SPACECRAFT, AND SPACECRAFT TRAJECTORY CONSIDERATIONS
FTD-TT-63-94/1&2&4 N64-13158 04-29

COMPUTER PROGRAMMING OF OPTIMUM VEHICLE TRAJECTORY FOR INTERCEPTION OF ORBITING TARGET
SSD-TDR-63-402, VOL. 2 N64-17336 09-20

COMPUTER SIMULATION OF ATMOSPHERIC DRAG FOR TESTING TRAJECTORY OF ARTIFICIAL SATELLITE OR SPACE PROBE N64-18232 10-29

METHODS FOR CONTROL OF TRAJECTORY OF MARS 1 SPACECRAFT
FTD-TT-63-131/1&2 N64-19744 12-29

PERFORMANCE DATA FOR ATLAS MA-2 AND MA-5 BOOSTER SUSTAINERS, AND VERNIER ROCKET ENGINES TO OPTIMIZE VEHICLE TRAJECTORIES
R-5108-3 N64-31291 22-27

LOW REACTION THRUST ACCELERATION TRAJECTORY OF SPACECRAFT IN RANGE OF PLANETARY INFLUENCE N64-31525 23-30

OPTIMUM TRAJECTORIES FOR SPACECRAFT WITH ENGINES OF LIMITED PROPULSION OUTPUT TO AND FROM PLANET - GRAVITATIONAL EFFECTS N64-31527 23-30

TRAJECTORY COMPUTATION FOR SPACECRAFT WITH LIMITED POWER BETWEEN COPLANAR CIRCULAR ORBITS IN CENTRAL GRAVITATIONAL FIELD N64-31528 23-29

SPACECREW
STRESSES ON FLIGHT CREW IN SPACE FLIGHT N64-11649 03-14

PROBLEM OF SUPPLYING SPACECREW WITH FOOD OF ANIMAL ORIGIN N64-11672 03-16

SPACECREW SELECTION AND TRAINING - LITERATURE SURVEY
SID-63-707 N64-14423 06-14

PSYCHOLOGICAL EFFECTS OF RESTRICTED WORKSPACE AND WORK-REST CYCLE ON CREW FOR LUNAR MISSION
NASA-TN-D-2065 N64-14519 06-14

SELECTION OF SPACE CREWS FOR EXTENDED JOURNEYS - APPLICATION OF PSYCHOLOGICAL CRITERIA
JPRS-23853 N64-17536 09-14

MEDICAL PROBLEMS OF CREW HEALTH IN CLOSED ECOLOGICAL SYSTEM N64-24629 17-16

CREW TRAINING AND HUMAN PERFORMANCE ON SPACE MISSIONS N64-30718 22-14

SATELLITE TO EARTH VISIBILITY OF CREWMAN - HUMAN PERFORMANCE N64-30720 22-14

CREWMAN VIEWS ON RESCUE AND SAFETY IN SPACE N64-30724 22-14

CREW STATION DESIGN CRITERIA FOR SPACE VEHICLES - PRESSURE SUIT REQUIREMENTS, POTENTIAL HAZARDS, AND IN-FLIGHT MAINTENANCE
SID-64-997 N64-32201 23-32

SPACING
CF SEPARATION
COMPUTER PROGRAM FOR CONVERSION OF X-RAY POWDER PATTERN MEASUREMENTS TO REFINED D-SPACING
IS-683 N64-11776 03-20

ANHARMONICS PROBLEM - EIGENVALUES OF OSCILLATORS EVALUATED, BROADENED INTERLEVEL SPACING, AND PROPOSED PARTITION FUNCTION FOR CRYSTAL PROPERTIES
AMRA-TR-63-20 N64-13115 04-23

THERMIONIC CONVERTER DEVELOPMENT - SPACING, CERAMICS, AND LEAKAGE
GEST-2029 N64-16793 08-06

ASYMPTOTIC DISTRIBUTION OF LARGEST SAMPLE SPACING
NRC-471 N64-24397 17-20

COMPUTER PROGRAMS FOR EIGENVALUE SPACING DISTRIBUTIONS AND MOMENTS

BNL-863/T-346/ N64-24922 17-23

THINNING & BROADBANDING ANTENNA ARRAYS BY UNEQUAL SPACINGS
AFCRL-64-253 N64-26185 18-08

DISTORTIONS AND STRESSES OF PARABOLOIDAL SURFACE STRUCTURES
ESD-TDR-64-55 N64-26530 18-33

ELEMENT SPACINGS IN NONUNIFORMLY SPACED ANTENNA ARRAYS - MAXIMUM POWER GAIN DETERMINATION
AFCRL-64-728 N64-32628 23-08

SPALLING
CF NUCLEAR REACTION
PENETRATION, PERFORATION, & SPALLING OF THIN TARGETS BY HYPERVELOCITY PROJECTILES
DRL-TR63-208 N64-13304 04-23

SPALL THRESHOLDS IN COPPER IN RELATION TO STRESS-TIME IN FAILURE REGION & METHOD OF INDUCING SHOCK WAVES N64-13446 05-25

MECHANICAL SPALLATION OF PLASTIC CHARRING ABLATORS - THERMAL PROTECTION FOR REENTRY VEHICLES
R63SD53 N64-14679 06-13

NEGATIVE EQUATION OF STATE AND SPALL CRITERIA FOR SOLID MATERIAL UNDER DYNAMIC STRAIN
RTD-TDR-63-3039 N64-31235 22-33

SPARK
SA DISCHARGE
SA SPARK CHAMBER
SA SPARK DISCHARGE
SA SPARK GAP
SA SPARK IGNITION
CF ELECTRIC ARC
CF ELECTRIC DISCHARGE
TRACER-SPARK TECHNIQUE FOR STUDY OF HYPERVELOCITY FLOW FIELDS
SUDAER-190 N64-32969 24-10

SPARK CHAMBER
SPARK CHAMBER NEUTRINO EXPERIMENTS
N64-15505 07-23

MAGNETIC SPARK CHAMBER - NEUTRINO DETECTION, LEPTON CONSERVATION, & VECTOR BOSON REDUCTION SIGNATURES N64-15510 07-23

SPARK FORMATION IN SPARK CHAMBER - PULSED FIELD ACROSS HIGH PRESSURE GAS N64-15511 07-23

FREQUENCIES OF EVENTS AND EVALUATION OF DATA IN SPARK CHAMBER EXPERIMENTS - NEUTRINO SPECTRUM
N64-15512 07-23

NEUTRINO EVENT EXPERIMENT USING SPARK CHAMBER
BNL-787 /T-300/ N64-15560 07-23

BEHAVIOR OF ELECTRIC FIELD BETWEEN SPARK CHAMBER PLATES AS FUNCTION OF TIME AND POSITION
LNF-64/11 N64-23172 16-23

COMPUTER PROGRAM TO ANALYZE SPARK CHAMBER DATA OBTAINED BY USE OF AUTOMATIC FLYING SPOT DIGITIZER
BNL-833/T-237/ N64-26274 18-20

FILMLESS SPARK CHAMBER TECHNIQUES AND ASSOCIATED COMPUTER USE - CONFERENCE
CERN-64-30 N64-28012 20-09

HIGH CAPACITY DIGITAL DATA HANDLING SYSTEM FOR USE WITH COUNTER HODOSCOPES AND DIGITIZED SPARK CHAMBERS
BNL-852/T-338/ N64-28692 20-20

PRESELECTOR DEVICE TO READ AND STORE DATA FROM TAPE TO AID FUNCTION OF SPARK CHAMBER READER
BNL-876/T-352/ N64-30232 22-15

AUTOMATED OPTICAL FILM SCANNER - SPARK CHAMBER READER
BNL-877/T-353/ N64-30377 22-15

SPARK CHAMBER AND DEFLECTION MAGNET TO PHOTOGRAPH TRACKS OF COSMIC RAY ELECTRONS AT BALLOON ALTITUDES N64-32224 23-15

MAGNETOSTRICTION IN NICKEL WIRE SPARK CHAMBER READOUT LINES
UCRL-11620 N64-33086 24-09

SPARROW ROCKET
MANUFACTURE OF SPARROW ROCKET MOTOR CASE BY CRYOGENIC STRETCH-FORMING TECHNIQUE
AD-430358 N64-17310 09-17

SPATIAL DEPENDENCY
SPATIAL FLUCTUATIONS OF HORIZONTAL COMPONENT OF WIND VELOCITY N64-10763 02-21

SPATIAL DISTRIBUTION
FORMULAS FOR SPATIAL DISTRIBUTION OF MOLECULES AND JET FORMATION IN FLOW THROUGH SHORT TUBE
RSIC-114 N64-15124 07-23

STELLAR ASTRONOMY - STAR DISTRIBUTION, EVOLUTION, KINEMATICS, AND DYNAMICS
JPRS-23821 N64-17350 09-05

SPATIAL, SPECTRAL, AND INTENSITY DISTRIBUTION MEASUREMENTS OF OPTICAL RADIATION WITH MODEL MW-1 LOGARITHMIC NINE-CHANNEL RADIOMETER
AFCRL-63-896 N64-17849 10-15

CALCULATION OF DISTRIBUTION OF CURRENT DURING FLOW OF CONDUCTING LIQUIDS THROUGH CHANNELS IN MAGNETIC FIELDS
FTD-MT-63-8 N64-18663 11-23

RADIATION OF LONGITUDINAL WAVES IN MEDIA WITH WEAK SPATIAL DISPERSIONS N64-27168 19-24

MICROWAVE CAVITY TECHNIQUES FOR SPATIAL DISTRIBUTION OF ELECTRONS IN PLASMA COLUMNS AND MEASUREMENT OF THERMAL RADIATION FROM HIGHLY IONIZED CURRENT CARRYING PLASMA
USCEC-103-101 N64-28617 20-24

MICROWAVE STUDY OF ELECTRON SPATIAL DISTRIBUTION IN PLASMA N64-30358 22-24

ELECTRON SPIN RESONANCE TECHNIQUES TO DETERMINE SPATIAL DISTRIBUTION OF RADICALS PRODUCED BY IRRADIATION N64-30783 22-07

SPATIAL DISTRIBUTION OF ANOMALOUS IONIZATION IN F- 2 LAYER AT HIGH LATITUDE
NASA-TT-F-8947 N64-30840 22-12

SPACE-TIME DISTRIBUTION OF THERMAL NEUTRONS IN MODEL SAND LAYERS N64-31793 23-12

EXPERIMENTAL INVESTIGATION OF SPATIAL DISTRIBUTION OF RADIATION DOSE IN AIR-OVER-GROUND GEOMETRY
CEX-62.14 N64-32082 23-23

SPATIAL DISTRIBUTION AND VARIATIONS OF H-ALPHA LINE EMISSION IN NIGHT AIRGLOW N64-32708 24-12

SPATIAL ORIENTATION
DETERMINATION OF AXIAL ORIENTATION OF ROCKET OR SATELLITE IN CONSTANT PRECESSIONAL MOTION
AFCRC-63-871 N64-12659 04-21

PHYSIOLOGICAL EFFECTS OF ROTATIONAL ACCELERATION IN RELATION TO MOTION SICKNESS, SPATIAL DISORIENTATION, & BLACKOUT N64-13454 05-16

SPATIAL AEROTRIANGULATION FOR PHOTOGRAMMETRY
N64-20619 13-12

MECHANISMS OF SPATIAL ORIENTATION IN BATS
JPRS-27285 N64-33974 24-16

SPATIAL PERCEPTION
PROBLEMS ON HUMAN ENGINEERING PSYCHOLOGY AND VISUAL AND SPATIAL PERCEPTION
JPRS-18719 N64-10786 02-16

MATHEMATICAL ANALYSIS OF RELATION OF VISUAL PERCEPTION TO PERCEPTION OF SPATIAL OBJECTS
N64-10788 02-11

ENGINEERING PSYCHOLOGY - INVESTIGATION OF TACTILE SENSATION, GRAPHIC ACTIVITY, & SPATIAL PERCEPTION OF MAN-MACHINE SYSTEMS
JPRS-22300 N64-11872 03-14

SPATIAL PERCEPTION AS FACTOR IN HUMAN PERFORMANCE, LEARNING, AND WORK ACTIVITY
NASA-TT-F-164 N64-25132 17-16

MECHANISM OF SPATIAL PERCEPTION AND SYNERGETIC ACTIVITY OF CEREBRAL HEMISPHERES
N64-25133 17-16

MECHANISM OF SPATIAL PERCEPTION IN BEHAVIOR OF ANIMALS & PATHWAYS AND STRUCTURE OF SPATIAL ANALYSIS N64-25134 17-16

IMPORTANCE OF SYNERGETIC ACTIVITY IN CEREBRAL HEMISPHERES TO SPATIAL PERCEPTION
N64-25135 17-16

SPATIAL PERCEPTION OF OBJECTS BY VARIOUS SENSORY ORGANS - EYES, FINGERS, HANDS N64-25137 17-16

ROLE OF EYE MOVEMENTS IN SPATIAL VISION
N64-25138 17-16

CONDITIONED REFLEX BASIS OF VISUAL SPATIAL PERCEPTION N64-25139 17-16

THRESHOLDS OF SPATIAL DISCRIMINATION BY HUMAN FINGERS N64-25142 17-14

FORMATION OF COMPLEX SPATIAL NOTIONS IN NORMAL AND PATHOLOGICAL SUBJECTS - ROLE OF SPEECH
N64-25143 17-16

ROLE OF MOTOR AND VISUAL ANALYZERS IN FORMATION OF CONDITIONED REFLEX RESPONSES TO SPATIAL POSITIONS OF OBJECTS N64-25144 17-16

DEVELOPMENT OF SPATIAL DISCRIMINATION IN PRESCHOOL AGE CHILDERN N64-25145 17-16

PERCEPTION OF SIZE OF OBJECT IN SPATIAL ORIENTATION OF PRESCHOOL CHILDREN
N64-25146 17-16

DISCRIMINATION OF SPATIAL RELATIONS IN PRESCHOOL CHILDREN AND ITS REFLECTION IN THEIR LANGUAGE
N64-25147 17-16

DEVELOPMENT OF SPATIAL PERCEPTION AND SPATIAL CONCEPTS IN PRESCHOOL CHILDREN N64-25148 17-16

PERCEPTION OF PROPORTIONS BY FIRST GRADE CHILDREN DURING NATURE DRAWING N64-25149 17-16

SPATIAL AND QUANTITATIVE CONCEPTS IN FOURTH THROUGH SIXTH GRADE STUDENTS N64-25150 17-16

DEVELOPMENT OF SPATIAL CONCEPTS IN ELEMENTARY SCHOOL CHILDREN N64-25151 17-16

PERCEPTION OF SPATIAL RELATIONS BY SIXTH GRADE CHILDREN DURING FIELD SURVEYING EXERCISES
N64-25152 17-16

KINESTHETIC SPATIAL DISCRIMINATION IN SPORTS
N64-25154 17-16

DYNAMICS OF SPATIAL ATTRIBUTES OF MOVEMENTS IN PROCESS OF FORMATION OF IMAGES OF GYMNASTIC EXERCISES N64-25155 17-16

INTERACTION OF SPATIAL, DYNAMIC, AND TEMPORAL COMPONENTS OF WORKING MOVEMENTS IN LEARNING TO FILE METAL N64-25156 17-16

ROLE OF SPATIAL PERCEPTION IN WORKING AT CONVEYER
N64-25157 17-16

PSYCHOPHYSIOLOGY OF ILLUSIONS OF SPATIAL POSITION OF AIRCRAFT IN INSTRUMENT FLYING
N64-25158 17-16

ROLE OF SPATIAL CONCEPTS IN MAP READING AND INTERPRETATION OF AERIAL PHOTOGRAPHS
N64-25159 17-16

ROLE OF SPATIAL IMAGINATION IN DESIGNING AND IN TEACHING OF DRAWING IN TECHNICAL SCHOOLS
N64-25160 17-16

PROCESS OF SPATIAL CONCEPTUALIZATION IN STUDENTS OF DRAWING AND DESIGNING N64-25161 17-16

SPATIAL PERCEPTIONS AS FACTOR IN HUMAN CAPACITY FOR WORK N64-25162 17-16

SPECIES
CHEMICAL COMPOSITION OF VARIOUS ALGAE SPECIES
N64-29034 21-16

PROTECTION OF VANISHING SPECIES - INTERNATIONAL CONGRESS OF ZOOLOGY SYMPOSIA ON SCIENCE AND MAN
NASA-CR-59027 N64-33924 24-16

SPECIES DIFFUSION
EFFECTS OF SPECIES DIFFUSION AND HEAT CONDUCTION ON NONEQUILIBRIUM FLOWS BEHIND STRONG SHOCK WAVES
NASA-CR-55178 N64-13333 04-11

SPECIFIC HEAT
SA FORMATION HEAT
CF VAPORIZATION HEAT
CORRELATION OF PRESSURE-DENSITY-TEMPERATURE AND SPECIFIC HEAT DATA FOR PARAHYDROGEN
NBS-R-45 N64-11637 03-19

STATE EQUATIONS FOR DIFFERENCE IN SPECIFIC HEATS & CHANGE IN ENTROPY OF GASES
RS-TR-63-5 N64-12243 03-23

EXPERIMENTAL VALUES FOR SPECIFIC HEAT OF GRAPHITE OVER TEMPERATURE RANGE FROM 20 TO 3800-DEG. K.
WADD-TR-61-72, VOL. 41 N64-15581 07-19

SPECIFIC HEAT, THERMAL CONDUCTIVITY, AND VISCOSITY OF LIQUID CESIUM
NASA-CR-54018 N64-18294 10-18

OBLIQUE SHOCK WAVE PARAMETER CORRELATION FOR SOME SPECIFIC HEAT RATIOS WITH APPLICATION TO REAL GAS FLOWS
NASA-TR-R-171 N64-19235 11-11

SPECIFIC HEAT AND SPEED OF SOUND DATA CALCULATED FOR IMPERFECT AIR
AEDC-TDR-64-36 N64-21413 14-23

SPECIFIC HEAT AND SOUND VELOCITY FOR IMPERFECT NITROGEN AT HIGH TEMPERATURES
AEDC-TDR-64-113 N64-22605 15-11

THERMODYNAMICS - SPECIFIC HEAT AND SOUND SPEED DATA FOR IMPERFECT AIR AND NITROGEN
AEDC-TDR-64-114 N64-22606 15-11

FUNCTIONS FOR CALCULATION OF ENTROPY, ENTHALPY, & INTERNAL ENERGY OF REAL FLUIDS USING STATE EQUATIONS AND SPECIFIC HEATS N64-24147 16-11

COMPRESSIBLE FLOW FUNCTIONS AT MACH NUMBERS FROM 0 TO 20 - SPECIFIC HEAT RATIOS AND UNSTEADY FLOW AND IDEAL THRUST FUNCTIONS N64-26637 18-11

SEPARATION OF MAGNETIC CONTRIBUTION FROM TOTAL SPECIFIC HEAT OF ALPHA MANGANESE
AMRA-TR-64-07 N64-29805 21-18

FREE ELECTRON THEORY OF SPECIFIC HEATS OF DILUTE ALLOYS AND APPLICATION TO COPPER AND ALUMINUM BASED ALLOYS
FTR-5 N64-32134 23-25

SPECTRAL EMISSION
SPECTRAL EMITTANCE OF OPAQUE AND TRANSPARENT MATERIALS FROM 40- TO 200-DEG C
N64-10952 02-13

SPECTRAL NORMAL EMITTANCE OF MATERIALS UNDER SIMULATED SPACE ENVIRONMENT N64-10959 02-13

ROTATING-SPECIMEN FURNACE FOR USE IN DETERMINING SPECTRAL & TOTAL EMITTANCE OF MATERIALS FROM MEASUREMENT OF RADIANT FLUX FROM SPECIMEN SURFACE
N64-10969 02-13

SPECTRAL MEASUREMENTS OF NEAR-SOLAR AUREOLES
FTD-TT-63-844/1&2 N64-12629 04-28

TOTAL HEMISPHERICAL & NORMAL SPECTRAL EMITTANCES OF OXIDATION PROTECTIVE COATINGS
ASD-TDR-63-269 N64-12663 04-18

MEASUREMENT OF NORMAL SPECTRAL EMITTANCE OF SPECIMENS AT TEMPERATURES IN 800 TO 1400-DEG K RANGE
WADC-TR-59-510, PT. 4 N64-13971 05-13

SPECTRAL EMISSIVITIES AND INTENSITIES OF WATER 1.87 MICRON BAND
GD/A-63-1219 N64-14480 06-13

SPECTRAL REFLECTANCE AND EMISSIVITY OF CARBON AND GRAPHITE MATERIALS MEASURED BY CARBON ARC IMAGE FURNACE
WADD-TR-61-72, VOL. 21 N64-15578 07-19

SPECTRAL EMISSIVITY OF POLISHED METALS AFTER DAMAGE BY SIMULATED MICROMETEORITE
NASA-CR-53235 N64-17590 09-23

VAPOR PRESSURE AND SPECTRAL EMISSIVITIES OF REFRACTORY MATERIALS
WADD-TR-60-646, PT. 3 VOL. 2 N64-19660 12-19

SPECTRAL RADIATION VARIATIONS DURING COSMIC RAY STORMS
AFCRL-64-395 N64-21082 14-28

INSTRUMENT FOR MEASURING SPECTRAL EMITTANCE OF SOLIDS IN INFRARED REGION AT LOW TEMPERATURES
NOLC-589 N64-22912 16-23

H-ALPHA LINE EMISSION STARS NEAR RHO OPHIUCHI
N64-26568 18-05

H-ALPHA EMISSION STARS NEAR DARK NEBULOSITY IN OPHIUCHUS
N64-26569 18-05

SPECTRAL EMISSIVITY OF FLASH COMBUSTION REACTIONS FOR LASER PUMPING
NA-64-608 N64-27615 19-26

SPECTRAL EMISSIVITIES OF WATER BETWEEN 4 MICRONS AND 22 MICRONS FOR TEMPERATURES OF 550 DEGREES TO 2,200 DEGREES K
GDA-DBE64-046 N64-28904 20-23

TEMPERATURE & SPECTRAL EMISSIVITY CHARACTERISTICS OF CLOUD TOPS AND EARTH SURFACE
NASA-CR-58346 N64-29504 21-21

SPECTRAL EMITTANCE MEASUREMENTS OF COMMERCIAL, TRANSPARENT, AND OPAQUE SOLIDS FOR INFRARED APPLICATIONS
NOLC-TM-43-14 N64-32373 23-23

QUANTITATIVE SPECTRAL CLASSIFICATION OF STARS THROUGH PHOTOELECTRIC MEASUREMENTS IN NARROW BANDS
N64-33680 24-05

SPECTRAL ENERGY DISTRIBUTION

SPECTRAL EMISSIVITY STUDY OF CHEMICAL FLASHES PRODUCED BY COMBUSTION REACTIONS
NA-64-105 N64-16984 09-26

ANGULAR AND SPECTRAL DISTRIBUTIONS OF LIGHT EMITTED FROM ELECTRON-BOMBARDED SILVER FOILS
ORNL-3485 N64-17266 09-23

SPECTRA DISTRIBUTION OF ELECTROLUMINESCENCE OF MANGANESE AND ZINC DIFFUSED P-N JUNCTIONS
N64-17874 10-25

SPECTRAL DISTRIBUTION OF NATURAL RECOMBINATION RADIATION OF GALLIUM ARSENIDE AT DIFFERENT TEMPERATURES
FTD-MT-63-34/1&2 N64-18668 11-25

SPECTRAL DISTRIBUTION OF ENERGY RADIATED BY HIGH TEMPERATURE EQUILIBRIUM AIR
DASA-1435 N64-21592 15-13

SPECTRAL DISTRIBUTION OF OUTGOING LONG-WAVE RADIATION FLUXES DUE TO RADIATING WATER VAPOR, CARBON DIOXIDE OR OZONE
NASA-TT-F-210 N64-22676 15-20

SIMULATION OF SOLAR RADIATION THROUGH KNOWLEDGE OF TOTAL ENERGY AND SPECTRAL DISTRIBUTION OF SOLAR RADIATION AT ZERO MASS
N64-28202 20-21

SPECTRAL ENERGY DISTRIBUTION OF SPUTTERED MERCURY ATOMS EMITTED FROM HOT CATHODES
FTD-TT-64-542/1&2&4 N64-30459 22-23

SPECTRAL DISTRIBUTION OF EXTRA-ATMOSPHERIC COMPONENTS OF NIGHT AIRGLOW CONTINUUM
N64-32702 24-12

ASTRONOMICAL OBSERVATIONS OF SPECTRAL ENERGY DISTRIBUTION OF CANOPUS FOR APPLICATION TO SPACECRAFT GUIDANCE AND CONTROL
NASA-CR-59162 N64-32995 24-05

SPECTRAL DISTRIBUTIONS OF SPACE-TIME CORRELATIONS OF SPEED IN TURBULENT BOUNDARY LAYER
ONERA-TP-164/1964/ N64-33259 24-11

SPECTRAL LINE

SPECTRAL COMPONENTS OF RADIATION FROM RUBY LASER OPERATING AT LIQUID NITROGEN TEMPERATURE
FTD-MT-63-100/1&2&3&4 N64-14383 06-25

ANOMALOUS INCLINATION OF AMMONIA SPECTRAL ABSORPTION LINES IN PLANETARY ATMOSPHERE OF JUPITER
N64-14515 06-05

TEMPERATURE DEPENDENCE OF SPECTRAL LINE ABSORPTION OF CHROMIUM IONS IN RUBIES
SSD-TDR-63-417 N64-15121 07-23

IBM 7090 COMPUTER PROGRAM FOR DETERMINING PLASMA DENSITY FROM EXPERIMENTAL HYDROGEN SPECTRAL LINE SHAPES
ATN-64/9233/-8 N64-18924 11-24

LINEAR STARK BROADENING OF SPECTRAL LINE BY CHARGED PARTICLES
N64-24058 16-23

FORTRAN COMPUTER PROGRAM FOR COMPUTATION OF TABLES OF X-RAY FLUORESCENCE SPECTRAL LINES
Y-1470-A N64-25865 18-07

INTENSITIES OF CARBON DIOXIDE SPECTRAL BANDS
NASA-RP-253 N64-26075 18-07

MOLECULAR FREQUENCY STANDARD BASED ON MOLECULAR RESONANT SPECTRAL LINES
AD-431030 N64-26853 18-23

STARK BROADENING PARAMETERS FOR NONHYDROGENIC LINES OF NEUTRAL AND SINGLY IONIZED ATOMS
NRL-6084 N64-28874 20-24

SPECTRUM OF ELEMENTARY EXCITATIONS IN LIQUID HELIUM II
N64-29067 21-23

ABSORPTION OSCILLATOR STRENGTHS OF SPECTRAL LINES FROM MEDIUM AND LIGHT ELEMENTS
NRL-6085 N64-29954 21-23

SPECTRAL LINE SHAPES EMITTED FROM PLASMAS - QUANTUM STATISTICAL ANALYSIS
RTD-TDR-63-3130 N64-30879 22-24

DETERMINING SPECTRAL LINE STRENGTH BY EXPANSION CALCULATION METHOD
TR-412 N64-31734 23-23

CALCULATION OF PARTITION FUNCTION, IONIZATION POTENTIAL LOWERING, ELECTRON, ION, & NEUTRAL PARTICLE SPECIES CONCENTRATIONS, AND SPECTRAL LINE INTENSITIES OF COPPER PLASMA
REPT.-4613-66-T N64-32675 23-24

SPECTRAL NOISE

JET FLOWS AND JET NOISE FAR-FIELD SPECTRAL AND DIRECTION PATTERNS
N64-27800 19-11

SPECTRAL REFLECTANCE

HEMISPHERIC SPECTRAL REFLECTANCE OF OPAQUE SOLIDS
N64-10948 02-13

SPECTRAL REFLECTANCE AND EMISSIVITY OF CARBON AND GRAPHITE MATERIALS MEASURED BY CARBON ARC IMAGE FURNACE
WADD-TR-61-72, VOL. 2I N64-15578 07-19

REFLECTOMETER FOR MEASURING ABSOLUTE HEMISPHERICAL SPECTRAL REFLECTANCE OF SURFACES
AIAA PAPER-64-255 N64-24981 17-15

ABSOLUTE REFLECTION SPECTRUM OF TYPE IIA DIAMOND MEASURED BY DISPERSION TECHNIQUES TO OBTAIN OPTICAL PARAMETERS
NASA-RP-256 N64-26077 18-07

SPECTRAL SHIFT CONTROL REACTOR
REACTIVITY AND FLUX PERTURBATION ANALYSIS OF SPECTRAL SHIFT CONTROL REACTORS - PERTURBED LATTICES OF URANIUM DIOXIDE
BAW-1274 N64-10151 01-23

SPECTRAL THEORY
GUST ALLEVIATOR ANALYSIS USING SPECTRAL TECHNIQUE, AND COMPARISON WITH EXPERIMENT
ARC-R&M-3326 N64-10016 01-02

SPECTROGRAM
HIGH DISPERSION SPECTROGRAMS OF JUPITER IN VISUAL AND RED SPECTRA
NASA-CR-53003 N64-13272 04-28

NEW UPPER LIMIT FOR WATER VAPOR CONTENT OF MARS ATMOSPHERE FROM HIGH DISPERSION SPECTROGRAM
NASA-CR-53004 N64-13274 04-28

CLASSIFICATION OF NATURALLY OCCURRING VERY LOW FREQUENCY NOISES - SPECTROGRAM EXAMPLES OF RADIO NOISE & WHISTLERS
NBS-TN-166 N64-13905 05-12

PHYSICAL CONDITIONS IN SOLAR PROMINENCES THROUGH SPECTROGRAMS OF EMISSION LINES WITH SELF-ABSORPTION
T-R-84 N64-16961 09-28

ANALYSIS OF HIGH RESOLUTION SPECTROGRAM - COMPOSITION OF MARS ATMOSPHERE
NASA-CR-53573 N64-18454 10-05

SPECTROGRAMS OF HYDROGEN H-ALPHA LINE DURING SOLAR FLARE
AD-437506 N64-19639 12-28

SPECTROGRAPH
HIGH RESOLUTION PHOTOGRAPHS OF EXTREME ULTRAVIOLET SOLAR SPECTRUM FROM AEROBEE-HI ROCKET
N64-16023 07-28

FABRICATION OF VACUUM ULTRAVIOLET SPECTROGRAPHS
ARL-63-233 N64-16814 08-23

INSTRUMENTATION FOR STUDY OF SUNSPOTS AND GENERAL SOLAR MAGNETIC FIELDS AT ROME ASTRONOMICAL OBSERVATORY - SPECTROGRAPHS AND MAGNETOGRAPH
AFCRL-64-114 N64-18584 11-28

DESCRIPTION OF SPECTROGRAPHS USED IN ULTRAVIOLET SPECTROSCOPY N64-18807 11-07

PROFILES OF AURORAL HYDROGEN EMISSION OBTAINED BY SPECTROGRAPH N64-21880 15-12

FIELD SPECTROGRAPH FOR HIGH RESOLUTION SPECTRAL ANALYSIS OF ROCKET EXHAUST PLUMES FOR AEROSPACE VEHICLE DETECTION N64-23009 16-15

SPECTROGRAM OF VISIBLE RADIATION EMITTED FROM TRAILBLAZER II REENTRY VEHICLE
NASA-TN-D-2347 N64-24590 17-30

SPECTROGRAPHIC ANALYSIS OF SOLUTIONS ON CORED GRAPHITE - APPLICATION TO ZIRCONIUM-NIOBIUM ALLOY
ONERA-TN-76 N64-25607 17-18

SPECTROGRAPHS, PHOTOMETERS, AND EVENT CAMERAS FOR SNAP REENTRY STUDIES
SC-RR-64-968 N64-27038 19-15

SPECTROGRAPHIC METHODS FOR IMPURITY ANALYSIS OF REFRACTORY ELEMENTS N64-27591 19-07

SPECTROGRAPHY
SPECTROGRAPHIC ANALYSIS OF URANIUM FOR TRACE IMPURITIES BY CARRIER DISTILLATION METHOD
AEET/ANAL/25 N64-10149 01-23

SPECTROGRAPHIC OBSERVATION OF HYDROGEN IN EARTHS ATMOSPHERE N64-10285 01-12

CONTINUOUS STREAM ANALYSIS OF URANIUM SOLUTIONS OF X-RAY FLUORESCENCE - SPECTROGRAPHY
RCW-1477 N64-10431 01-07

BETA LYRAE - THEORY OF PHOTOMETRIC AND SPECTROGRAPHIC BEHAVIOR WITH MODEL
NASA-RP-78 N64-10668 01-16

SPECTROGRAPHIC DETERMINATION OF TEMPERATURE ACROSS NOZZLE EXIT OF ARC-HEATED WIND TUNNEL
ASD-TDR-63-98 N64-12595 04-24

TRILAURYLAMINE EXTRACTION - SPECTROGRAPHIC DETERMINATION OF TANTALUM IN PLUTONIUM
HW-79738 N64-15835 07-07

SPECTROGRAPHIC MEASUREMENTS OF SOLAR SIMULATION SOURCES N64-28203 20-15

SPECTROGRAPHIC STUDY OF CONTAMINATION-INDUCED LUMINOSITY BEHIND BLUNT BODY SHOCK WAVE
NASA-TN-D-2449 N64-28334 20-11

OPTICAL SIGNATURE DATA COLLECTED BY CINESPECTROPHS FROM RADIATION EMITTED BY REENTRY BODY N64-29113 21-08

SENSITIVITY OF SCANNING FABRY-PEROT INTERFEROMETER, SPECTROGRAPH DESIGN, AND ION RECOMBINATION STUDIES - AEROSPACE VEHICLE DETECTOR
AD-602812 N64-30186 21-15

SPECTROGRAPHY OF SOLAR FLARES N64-30256 22-28

SPECTROGRAPHIC-PHOTOMETRIC DETERMINATION OF CESIUM IN HIGH PURITY PLUTONIUM METAL - CONTAMINATION PRODUCED BY ELECTROREFINING PROCESS
RFP-420 N64-30756 22-07

SPECTROGRAPHY AND SPECTROMETRY OF LUMINOUS CHEMICAL RELEASES - FIREFLY PROJECT
N64-31381 23-12

ASSEMBLY OF BREADBOARD OPTICAL EQUIPMENT FOR SPECTROGRAPHIC DETERMINATION OF COMBUSTION PRODUCTS AND TEMPERATURE IN SOLID PROPELLANT COMBUSTION ZONES
PR-6 N64-31693 23-26

QUANTITATIVE EMISSION SPECTROGRAPHIC METHODS FOR DETERMINATION OF IMPURITIES IN PLUTONIUM
NBL-215 N64-32171 23-07

SPECTROGRAPHIC OBSERVATION FROM AIRCRAFT OF UPPER ATMOSPHERIC RADIATION DURING SOLAR ECLIPSE
N64-32710 24-12

PATROL SPECTROGRAPHIC OBSERVATIONS OF H-ALPHA LINE AURORAL SPECTRA N64-32713 24-12

SPECTROMETER
SA FABRY-PEROT SPECTROMETER
SA MASS SPECTROMETER
SA SCINTILLATION SPECTROMETER
THERMAL ANALYSIS OF SCANNING SPECTROMETER FOR ORBITING SOLAR OBSERVATORY S-57
AFCRL-63-700 N64-12290 03-29

PROTON-RECOIL SPECTROMETERS FOR MEASURING NEUTRON AND PROTON ENERGY SPECTRA FROM 10 TO 450-MEV
N64-12553 04-23

EFFICIENCY & RESOLUTION OF PROTON RECOIL SPECTROMETER - CALCULATION BY MONTE CARLO METHOD
N64-12555 04-23

CALIBRATION AND TESTING OF GAMMA-RAY SCINTILLATION SPECTROMETERS AND MULTICHANNEL PULSE HEIGHT ANALYZERS
IDO-16923 N64-13167 04-15

STELLAR PHOTOMETER AND SPECTROMETER FOR INFRARED REGION N64-13688 05-15

AUTOMATIC PRECISION CURVED-CRYSTAL GAMMA-RAY SPECTROMETER
IS-575 N64-13947 05-15

ELECTRIC ARCS, HIGH SPEED PHOTOGRAPHY, ACOUSTIC NOISE SPECTROMETRY, TEMPERATURE MEASUREMENTS, AND SPECTROMETER CONSTRUCTION - PLASMA PHYSICS
LAS-SR-239-3 N64-14777 06-24

HIGH ALTITUDE OBSERVATIONS WITH CORONAGRAPH AND INFRARED SPECTROMETER OF RADIATION FROM SOLAR ATMOSPHERE N64-15087 07-28

ATMOSPHERIC ABSORPTION OF SOLAR INFRARED RADIATION RELATED TO ZENITH ANGLE, AS DETERMINED WITH INFRARED SPECTROMETER N64-15088 07-12

DIRECT READING DERIVATIVE SPECTROMETER AND FRACTURE TOUGHNESS OF METALS - NRL PROJECTS N64-17217 09-01

SPECTROMETER FOR DIRECT MEASUREMENT OF WAVELENGTH DERIVATIVES OF SPECTRAL CURVES N64-17218 09-16

SPECTROMETER FOR ALUMINUM FLUORIDE AND ALUMINUM CHLORIDE STUDIES N64-18802 11-07

GAMMA SPECTROMETER MEASUREMENT OF COBALT 58
EUR-524.N N64-22136 15-23

LITHIUM-DRIFT GERMANIUM P-I-N DIODES USED AS GAMMA RAY SPECTROMETERS
AECL-1960 N64-22500 15-25

RAINDROP SPECTROMETER, LIQUID-WATER-CONTENT METER, AND DROPLET DISDROMETER FOR MEASURING VARIOUS METEOROLOGICAL PARAMETERS
AFCRL-64-92 N64-22695 15-21

SINGLE-BAND CRYSTAL DIODE MODULATOR AS LOCAL DIODE OSCILLATOR IN ELECTRON PARAMETRIC RESONANCE SPECTROMETER
FTD-TT-64-317/1&2&4 N64-24325 17-15

UNIVERSAL SPECTROMETER FOR NEUTRON DIFFRACTION EXPERIMENTS
BNL-851/T-337 N64-24710 17-25

PRESSURE EFFECTS ON OPERATION CHARACTERISTICS OF AEROSOL SPECTROMETER
USAELRDL-TR-2456 N64-25227 17-15

IRON DOUBLE-FOCUSING BETA-RAY SPECTROMETER
BNL-850/T-336/ N64-25548 17-15

AUTOMATED FAST COINCIDENCE NUCLEAR RADIATION SPECTROMETER
USNRDL-TR-729 N64-26493 18-15

HELIUM 3 SPECTROMETER FOR NEUTRON SPECTRA AND ATTENUATION MEASUREMENTS
BRL-MEMO-1545 N64-26621 18-25

SCATTERING SPECTROMETER TO MEASURE TOTAL ABSOLUTE CROSS SECTION FOR SCATTERING ELECTRONS
NASA-CR-58052 N64-26868 18-23

ENERGY AND WAVELENGTH CALIBRATION OF GONDOLA V SPECTROMETER WITH GOLD-DOPED GERMANIUM DETECTOR BY BALLOON IN STRATOSPHERE
CARDE-TN-1591/64 N64-27533 19-15

PRINCIPLES OF OPERATION AND CONSTRUCTION OF SUBMILLIMETER INTERFERENCE SPECTROMETER
NASA-CR-56839 N64-29193 21-15

AUTOMATIC RECORDING CONSTANT VELOCITY MOSSBAUER SPECTROMETER FOR IRON 57
TN-4 N64-30056 21-15

DETERMINATION OF NEUTRON FIELDS USING HELIUM-3 SOLID STATE SPECTROMETER
BRL-1505 N64-33350 24-23

SPECTROMETRY
SA MASS SPECTROMETRY

FAST NEUTRON SPECTROMETRY IN PILE BY THRESHOLD DETECTORS
EUR-289.E N64-13234 04-23

GAMMA-RAY SPECTROMETRIC DETERMINATION OF IRON, COPPER, PHOSPHOROUS, AND NICKEL IN SILICON USING ION-EXCHANGE
AFCRL-63-388 N64-14685 06-23

PRESSURE OSCILLATION SPECTRUM MEASUREMENT IN TURBULENT WAKES
AGARD-464 N64-18717 11-11

SPECTROMETRICAL STUDIES OF CADMIUM SULFIDE CRYSTAL OPTICAL MODES AND REFRACTIVE INDICES
ML-1108 N64-25590 17-07

DETERMINATION OF METALLIC IMPURITIES IN WATER BY ATOMIC ABSORPTION SPECTROMETRY
DP-879 N64-26487 18-07

VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE, SOLAR SPECTROMETRY, AND INTERFEROMETRIC INVESTIGATION OF CELESTIAL SPECTRA
AFCRL-64-569 N64-27081 19-12

SPECTROMETRIC ANALYSIS OF NUCLEAR RADIATION
AEC-TR-6439 N64-30636 22-01

AUTOMATIC COMPARATOR FOR SPECTRAL MEASUREMENTS
LA-3100 N64-30820 22-15

PHOTOGRAPHIC SPECTROMETRY AND RADIOMETRY FOR MEASUREMENT OF REENTRY OBSERVABLES - RADIANT ENERGY TRANSFER EQUATIONS
R64SD1023 N64-30866 22-15

SPECTROGRAPHY AND SPECTROMETRY OF LUMINOUS CHEMICAL RELEASES - FIREFLY PROJECT N64-31381 23-12

MOLECULAR BEAM SPECTROMETRY OF CARBON MONOXIDE-OXYGEN FLAMES
QTSR-11 N64-33423 24-13

SPECTROPHOTOMETRY
MICROSPECTROPHOTOMETRY N64-14740 06-16

HIGH TEMPERATURE GASEOUS EQUILIBRIUM OF CADMIUM & CADMIUM CHLORIDE - SPECTROPHOTOMETRIC INVESTIGATION
IS-739 N64-14887 06-07

INSTRUMENTATION FOR FAR ULTRAVIOLET ROCKET SPECTROPHOTOMETRY
NASA-TN-D-2250 N64-17992 10-15

SPECTROPHOTOMETRIC INSTRUMENTATION & OBSERVATIONS OF SOLAR FLARES, AND VISUAL OBSERVATIONS
AD-433788 N64-18462 10-21

SPECTROPHOTOMETRIC OPTICAL CHARACTERISTICS OF ARCTIC AIR MASSES
FTD-MT-63-17/1&2 N64-18747 11-21

TWENTY-FIVE STARS FROM B8 TO M7 MEASURED BY PHOTOMETER USING GERMANIUM PHOTOCONDUCTOR N64-19710 12-05

SPECTROPHOTOMETRIC DETERMINATION OF LOW CONCENTRATIONS OF NICKEL IN THORIUM METAL
Y-1464 N64-20441 13-07

QUANTITATIVE ANALYSIS OF COBALT IN SOLUTION BY DIFFERENTIAL SPECTROPHOTOMETRY - COLORIMETRY
EUR-581.F N64-20876 14-07

SPECTROPHOTOMETRIC OBSERVATIONS OF EMISSIONS IN AURORAE AND AIRGLOW
NASA-TT-F-201 N64-21889 15-12

SPECTROELECTROPHOTOMETRY OF HYDROGEN EMISSION IN AURORAE N64-21898 15-12

SPECTROELECTROPHOTOMETRY OF NITROGEN MOLECULES, NITROGEN IONS, OXYGEN IODIDE, & NITROGEN IODIDE EMISSIONS IN AURORAE N64-21899 15-12

RESONANCE ABSORPTION SPECTROPHOTOMETRY OF

HYDROGEN ATOM BEHIND SHOCK WAVES
NASA-CR-56290 N64-22481 15-11

SPECTROPHOTOMETRY OF LUNAR SURFACE
FTD-TT-63-10/1 N64-22643 15-29

ROCKET SPECTROPHOTOMETER AIRGLOW MEASUREMENTS IN FAR ULTRAVIOLET
NASA-TN-D-2362 N64-24819 17-12

NARROW BANDWIDTH OPTICAL FILTERS FOR ULTRAVIOLET AND VISIBLE LIGHT SPECTROPHOTOMETRY
ASD-TDR-63-523 N64-25486 17-08

REFLECTING TELESCOPE AND PHOTOELECTRIC SPECTROPHOTOMETER FOR STUDY OF PLANETARY OPTICAL EMISSION AND FLARE ACTIVITY OF NEARBY STARS
ONR-14-63 N64-26488 18-28

SPECTOPHOTOMETRIC METHODS FOR TANTALUM AND NIOBIUM IDENTIFICATION
FTD-TT-64-370/1&2&4 N64-26720 18-07

SPECTROPHOTOMETRIC MEASUREMENTS OF AURORA
AFCRL-64-571 N64-26910 18-12

INTERSTELLAR MATERIAL AND STRUCTURE OF GALAXIES
N64-27198 19-05

INSTRUMENTATION FOR FAR ULTRAVIOLET ROCKET SPECTROPHOTOMETRY
NASA-CR-56884 N64-27888 20-15

APPARATUS FOR NARROW PASS BAND PHOTOELECTRIC SPECTROMETRY OF STARS OF FIRST SPECTRAL TYPE
NASA-TT-F-8942 N64-30836 22-05

SPECTROPHOTOMETRIC DETECTION OF METASTABLE HELIUM ATOMS EXCITED BY ULTRAVIOLET RADIATION
RPL-TDR-64-96 N64-31076 22-23

COMPARISON OF SPECTROPHOTOMETRIC METHODS FOR IDENTIFYING TANTALUM AND NIOBIUM WITH ORGANIC REAGENTS
FTD-TT-64-455/1&2 N64-32484 23-07

QUANTITATIVE ANALYSIS OF PLAIN AND ALLOYED TUNGSTEN FOR IRON, COPPER AND COBALT
T65-1-1 N64-32548 23-18

NIGHT AIRGLOW EMISSION IN ULTRAVIOLET REGION
N64-32705 24-12

ASTRONOMICAL OBSERVATIONS OF SPECTRAL ENERGY DISTRIBUTION OF CANOPUS FOR APPLICATION TO SPACECRAFT GUIDANCE AND CONTROL
NASA-CR-59162 N64-32995 24-05

SPECTROPHOTOMETRIC DETERMINATION OF MICROGRAM QUANTITIES OF YTTRIUM IN TANTALUM
LA-3133 N64-33347 24-18

SPECTROPHOTOMETRY OF SOLAR MAGNETIC FIELD
NASA-TT-F-8982 N64-33389 24-28

SPECTROPHOTOMETRY OF ATMOSPHERIC PHENOMENA - LOW BRIGHTNESS PULSATING AURORAS, RESONANCE EMISSION DURING TWILIGHT, AND INFRARED ATMOSPHERIC SPECTRUM
UAG-R153 N64-33437 24-12

SPECTROPHOTOMETRIC METHOD FOR DETERMINATION OF TRACE AMOUNTS OF COBALT IN TANTALUM AND PLUTONIUM
LA-3124 N64-33468 24-07

ULTRAVIOLET SPECTROPHOTOMETER FOR OSO-B STELLAR ATMOSPHERE OBSERVATIONS
NASA-TM-X-55079 N64-33560 24-15

SEMICONDUCTOR LASER, CATALYST ADSORPTION OF OXYGEN, AND SPECTROPHOTOMETRY OF TITANIUM
JPRS-27079 N64-33995 24-07

ORGANIC COMPOUNDS AND COMPLEXES OF TITANIUM FOR SPECTROPHOTOMETRY
N64-33998 24-07

SPECTROSCOPE
ASTROPHYSICS - SPECTROSCOPY, INFRARED EMISSION, AND ABSORPTION SPECTRUM OF STARS, PLANETS, AND COMETS
N64-18483 10-23

SPECTROSCOPY
SA COLORIMETRY
SA ELECTRON MICROSCOPY
SA INFRARED SPECTROSCOPY
SA ULTRAVIOLET SPECTROSCOPY
COLORIMETRY, SPECTRAL ANALYSIS, AND OBSERVATION OF VARIABLE STARS AT UNIVERSITY OF PADUA
N64-10019 01-05

COMPARATIVE SPECTROSCOPIC STUDY OF WOLF-RAYET STARS
N64-10020 01-05

SPECTROCHEMICAL METHOD FOR ANALYSIS OF ZIRCONIA FOR LOW HAFNIA CONTENT
AEET/ANAL/27, REV. N64-10229 01-19

MOLECULAR SPECTROSCOPY - USSR
JPRS-19072 N64-10582 01-07

NEUTRON ACTIVATION ANALYSIS OF RARE EARTH ELEMENTS BETA DECAY, GAMMA RAY SPECTROSCOPY, & ION EXCHANGE SEPARATION
JPRS-18861 N64-10645 01-18

MULTIPLIER-TYPE PHOTOMETER WITH WIDE DYNAMIC RANGE FOR ABSORPTION SPECTROSCOPY
N64-10949 02-15

SPECTRAL DISTRIBUTION OF COPPER POSITRON FLUX IN INFINITE COPPER MEDIUM
ORNL-3469 N64-12118 03-23

SECONDARY NUCLEON CROSS SECTIONS FOR REACTIONS OF 160-MEV PROTONS WITH NUCLEI - FLIGHT-TIME SPECTRAL DATA
N64-12545 04-23

CHEMICAL CODE FOR MACHINE SEARCHING OF MOLECULAR SPECTROSCOPIC INFORMATION
N64-12699 04-07

EFFECTS RELATING ULTRAVIOLET SPECTRUM OF SUBSTITUTED BENZENES AND SPECTROSCOPIC MOMENT
ARL-63-220 N64-12703 04-23

SOUND SPECTRUM ANALYSIS, SYNTHETIC VOWEL SPECTRUM ENVELOPES, AND PERCEPTION OF INTONATION IN FRENCH, ENGLISH, AND SWEDISH SPEECH
AD-424609 N64-12975 04-14

PRODUCTION OF UNCLOUDED POTASSIUM BROMIDE PLATES FOR USE IN SPECTROSCOPY OF ORGANIC SUBSTANCES
RSIC-7 N64-14782 06-07

GLASS LASER RESEARCH - SPECTRAL PROPERTIES OF NEODYMIUM-DOPED GLASSES
LRC-63-991 N64-14783 06-19

ARC FLUCTUATION EFFECTS ON SPECTROSCOPICALLY-DETERMINED ARC PLASMA TEMPERATURES
LAS-SR-239-6 N64-14822 06-24

QUANTITATIVE SPECTROSCOPIC STUDIES ON WATER VAPOR AND LIQUID WATER
TECH. REPT.-43 N64-15001 07-23

MATHEMATICAL MODEL OF SEPARATION PROCESSES IN MASS FILTERS FOR MASS SPECTROSCOPY
OVL-298 N64-15029 07-15

SOLID STATE SPECTROSCOPY OF RARE EARTH IONS
N64-15113 07-25

SPECTRAL ANALYSIS FOR RANGE SCANNING FREQUENCY-MODULATED DISTANCE AND VELOCITY RADAR SYSTEM
N64-15143 07-08

WIENER-HASANI TECHNIQUE OF MULTIPLE SPECTRAL FACTORIZATION
N64-15484 07-20

RAMAN AND INFRARED SPECTROSCOPY DETERMINATION OF PROTACTINIUM SPECIES IN PROTACTINIUM-HYDROFLUORIC ACID SYSTEM
N64-15657 07-07

SPECTROSCOPIC ANALYSIS OF EMISSION SPECTRUM OF ATOMIC MATERIALS
AEC-TR-5745 N64-16031 07-07

SOLID STATE RESEARCH IN AREAS OF LASER, BAND STRUCTURE, SPECTROSCOPY, MAGNETISM, AND RESONANCE
ESD-TDR-64-15 N64-16774 08-25

OPTICAL MASER APPLIED TO BRILLOUIN SCATTERING SPECTROSCOPY
AD-432142 N64-16834 08-25

SOLID STATE PHYSICS RESEARCH - LASERS, SEEBECK COEFFICIENT, MATERIALS, SPECTROSCOPY, & MAGNETISM AND RESONANCE
ESD-TDR-63-584 N64-16868 08-25

SPECTRA OF SOLAR GASEOUS MATERIALS AND INTENSITY OF SOLAR FLARES
AFCRL-64-51 N64-18021 10-28

SPECTROSCOPY OF JUPITER, SATURN, URANUS, AND NEPTUNE - ATMOSPHERIC, THERMAL, AND KINEMATIC PROPERTIES
NASA-CR-53574 N64-18453 10-05

ASTROPHYSICS - SPECTROSCOPY, INFRARED EMISSION, AND ABSORPTION SPECTRUM OF STARS, PLANETS, AND COMETS N64-18483 10-23

ELECTRONIC TRANSITION MOMENT FOR SCHUMANN-RUNGE BAND SYSTEM OF OXYGEN - NUCLEAR PHYSICS
AD-434357 N64-18494 10-23

SHOCK TUBE SPECTROSCOPIC, ULTRASONIC, AND ELECTRONIC EQUIPMENTS
AFCRL-64-154 N64-18594 11-10

SPECTROSCOPIC ANALYSIS OF ACETALDEHYDE VIBRATION-ROTATION BAND
AFCRL-64-218 N64-18698 11-23

ULTRAVIOLET ABSORPTION SPECTRUM OF TETROL-ALDEHYDE - MOLECULAR ORBITAL THEORY OF DICHLORO-ETHYLENES - MICROWAVE SPECTROSCOPY
UCRL-11229 N64-18995 11-23

SOLID STATE PHYSICS, MASS SPECTROSCOPY, AND MAGNON-PHONON SPECTROSCOPY
AD-436276 N64-19134 11-23

MOTIONS OF BARRED SPIRAL GALAXY - SPECTROSCOPIC OBSERVATION OF VELOCITY FIELD OF NGC 925
NASA-CR-53823 N64-19315 12-05

SPECTRUM AND INTENSITY CHANGES OF COSMIC RADIATION AND SOLAR PROTON FLUX DURING MAXIMUM SOLAR ACTIVITY
AFOSR-64-0632 N64-20471 13-28

SPECTRAL ANALYSIS OF NEUTRAL COMPOSITION OF UPPER ATMOSPHERE N64-20501 13-12

SPECTRUM SIGNATURE MEASUREMENTS MADE ON AIR ROUTE SURVEILLANCE RADAR SYSTEM
RADC-TDR-63-363 N64-21218 14-23

SOLAR PROTON SPECTRUM ANALYSIS
NASA-RP-172 N64-21275 14-28

SPECTRAL ANALYSIS OF NONTHERMAL RADIO PROPAGATION
AD-434038 N64-21671 15-05

LIGHT & SPECTROSCOPIC PROPERTIES OF INORGANIC VITREOUS RARE EARTH OXIDE N64-21858 15-07

SPECTROSCOPIC OBSERVATIONS OF AURORAL AND AIRGLOW EMISSIONS N64-21897 15-12

SHOCK TUBE SPECTROSCOPY - MEASUREMENT OF ATOMIC TRANSITION PROBABILITIES
NASA-CR-56473 N64-22423 15-24

SPECTROSCOPIC DETERMINATION OF WATER VAPOR CONTENT IN COLUMN OF ATMOSPHERE
NASA-TT-F-212 N64-22677 15-15

SPECTRUM ANALYZER WITH 2 GC DISPLAY N64-22843 16-09

SPECTRUM OF IONIZED AND NEUTRAL PARTICLE DENSITY FLUCTUATIONS IN THERMALLY PRODUCED TURBULENT PLASMA
TR-15 N64-22891 16-24

SPECTROSCOPIC ANALYSIS OF ARC-MODE CESIUM THERMIONIC CONVERTERS N64-22993 16-09

FIELD SPECTROGRAPH FOR HIGH RESOLUTION SPECTRAL ANALYSIS OF ROCKET EXHAUST PLUMES FOR AEROSPACE VEHICLE DETECTION N64-23009 16-15

BORON PARTICLE SIZE, SPECTROCHEMICAL ANALYSIS, PYROHYDROLYSIS, MOLYBDENUM AND TECHNETIUM HYDROLYSIS
NBL-210 N64-23061 16-23

MICROPHOTOMETER USED AS RADIATION RECEIVER IN SPECTRAL ANALYSIS N64-23190 16-19

SPECTRUM ANALYSIS OF NITRIC OXIDE MOLECULE
AFCRL-64-391 N64-23277 16-23

USE OF LOW-NOISE AMPLIFIER IN SPECTRAL RADIOMETER N64-23793 16-08

SPACE EXPLORATION
FTD-TT-63-1045/1 N64-23844 16-32

MICROWAVE SPECTROSCOPIC METHODS FOR MOLECULAR STRUCTURE DETERMINATION OF 2,4-DICARBAHEPTABORANE
NASA-CR-56465 N64-23937 16-07

BLOOD SERUM ENZYME ACTIVATION AND SPECTRUM ANALYSIS OF CATECHOLAMINES
JPRS-24838 N64-24561 17-16

PHOTOELECTRONIC UNIT FOR BIOMEDICAL STUDY OF SPECTRAL DISPERSION OF CATECHOLAMINES N64-24563 17-16

SPECTRAL ALBEDO OF VARIOUS SURFACES IN VISIBLE AND NEAR INFRARED REGIONS N64-24793 17-21

SPECTRAL DISTRIBUTION OF SHORTWAVE RADIATION
NASA-TT-F-213 N64-24835 17-12

EFFECT OF FREQUENCY DEPENDENCE OF INTERNAL FIELD ON BAND SHAPES AND INTENSITIES IN INFRARED AND RAMAN SPECTRA OF LIQUIDS
AD-431713 N64-25002 17-07

SPECTRUM ANALYSIS OF SCALAR MAGNETIC FLUX PATTERN
TM-3 N64-25032 17-21

IDEALIZED MODEL FOR VARIATION WITH RIGIDITY OF COSMIC RAY CHARGE SPECTRUM
UBPA-39 N64-25530 17-28

SPECTROSCOPY OF SUPERSONIC PLASMA - EXCITATION MECHANISM
AEDC-TDR-64-151 N64-26217 18-24

ASTROPHYSICS AND QUANTITATIVE COMBUSTION SPECTROSCOPY WITH REFERENCE TO RADIATIVE PROPERTIES OF HOT GASES N64-26339 18-26

SOLID STATE RESEARCH - DEVICE DESIGN & MATERIALS, BAND STRUCTURE & SPECTROSCOPY, TRANSITION-METAL & RARE-EARTH COMPOUNDS, AND OPTICS
AD-439686 N64-26649 18-25

SPECTRAL ANALYSIS OF PURE KRYPTON AND KRYPTON IN ARGON AT LIQUID HYDROGEN TEMPERATURES
E-450-P N64-26657 18-23

MOLECULAR CRYSTAL GROWTH - RAMAN STUDIES AT LOW TEMPERATURES
TR-17 N64-26762 18-07

PLASMA ARC TECHNIQUE FOR SPECTROCHEMICAL DETERMINATION OF TITANIUM AND ZIRCONIUM IN MOLYBDENUM ALLOYS
ML-TDR-64-36 N64-26855 18-07

SHOCK FRONT RADIATION IN SHOCK TUBE AND SPECTROSCOPIC TEMPERATURE MEASUREMENT IN RELAXATION ZONE
NASA-CR-58036 N64-27292 19-07

TWO-DIMENSIONAL SPECTRAL ANALYSIS OF KINETIC ENERGY OF FLOW FIELDS

AFCRL-64-248 N64-27453 19-23

OBSERVATION OF IRON OXIDE IN ABSORPTION BY FLASH HEATING AND KINETIC SPECTROSCOPY
N64-27796 19-07

MAXIMUM OPTICAL PATH DIFFERENCE AND BACKGROUND NOISE EFFECT ON INTERFEROMETRIC SPECTROSCOPY
E-T-G-63-22 N64-28090 20-23

SPECTRAL ANALYSIS OF CADMIUM SELENIDE POWDERS
MTER-10 N64-28199 20-25

SPECTROSCOPIC OBSERVATION OF SYMBIOTIC STARS
NASA-RP-268 N64-28413 20-05

CONTRADICTION OF ARTICLE ON EXPLANATION OF COLOR OF MARS BY SPECTRAL PROPERTY ANALYSIS OF ATMOSPHERE
T-R-423 N64-28625 20-05

REACTION MECHANISMS IN CHEMILUMINESCENCE, STRUCTURAL CRITERIA FOR CHEMILUMINESCENT COMPOUNDS, AND SPECTROSCOPY AND ENERGY TRANSFER STUDIES
TR-4 N64-28818 20-07

SPECTROSCOPIC TECHNIQUE FOR MEASURING ROTATION, VIBRATION, AND ELECTRONIC TEMPERATURES OF NONEQUILIBRIUM SHOCK FRONT
NASA-CR-58673 N64-28885 20-11

CONFERENCE ON SPECTROSCOPY OF ATOMS, MOLECULES, AND SOLIDS N64-29057 21-23

ATOMIC MASS MEASUREMENT - MASS SPECTROSCOPY AND ERROR DETERMINATION N64-29064 21-23

SOLID STATE RESEARCH - MATERIALS, DEVICES, LASERS, AND SPECTROSCOPY OF SOLIDS
ESD-TDR-64-48 N64-29420 21-25

LUMINOUS SHOCK TUBE FOR SPECTROSCOPIC INVESTIGATION OF HIGH TEMPERATURE GASES
AFCRL-64-257 N64-29429 21-11

FLUTTER INFLUENCE ON ERRORS IN SPECTRUM ANALYZER READINGS N64-29465 21-09

FAR INFRARED SPECTROSCOPY OF SOLIDS
N64-29481 21-23

NONLINEAR & LINEAR MICROWAVE PROPAGATION, OPTICAL SPECTROSCOPY OF LASER MATERIALS, AND NONLINEAR QUANTUM MECHANICS OF LASERS
ML-1189 N64-30190 21-24

SPECTRAL ANALYSIS AND LINEAR FILTERING PERFORMED BY COHERENT OPTICAL SYSTEMS IN DATA REDUCTION
REPT.-2900-466-R N64-30587 22-08

SPECTRAL AND MAGNETO-CHEMICAL STUDIES OF 5-TRIFLUOROMETHYLTETRAZOL COMPLEXES, COPPER COMPLEXES OF SUBSTITUED BENZOIC ACIDS, AND COPPER HALIDE COMPLEX WITH PYRIDINE N-OXIDE SUBSTITUTIONS
SR-9 N64-31093 22-07

MOLECULAR RESONANCE OF ALUMINUM OXIDE FROM FIREFLY PROJECT SPECTROSCOPY IN UPPER NIGHT ATMOSPHERE
N64-31393 23-12

SPECTRAL MOLECULAR ANALYSIS OF CIS-BUTADIENE RUBBER BY INFRARED SPECTROSCOPY
FTD-TT-64-459/1&2 N64-31799 23-19

LORENTZ AND GAUSS BAND CONTOURS FOR INTERMOLECULAR SPECTROSCOPY IN CONDENSED PHASES
ASD-TDR-63-314, PT. I ED. II N64-32133 23-07

MOLECULAR BEAM APPARATUS, HYDROGEN SULFIDE SPECTROSCOPY, AND MILLIMETER WAVE STUDIES
OR-3408 N64-32140 23-23

INTRINSIC COLOR INDICES AND VARIABILITY CHARACTERISTICS OF GIANT M STARS
AD-421709 N64-32371 23-05

LINEAR EQUATION FOR ALTITUDE ERROR IN LUNAR TRANSFER ORBIT CALCULATION
NASA-TN-D-1837 N64-32401 23-29

SPECTROSCOPIC ANALYSIS OF SOLAR, MARS, & JUPITER ATMOSPHERES
NASA-CR-59060 N64-32492 23-29

LOW PRESSURE GAS SPECTROSCOPY APPARATUS
AFCRL-64-358 N64-32573 23-07

ELECTRIC AND CHEMICAL PROPERTIES OF BARRIER LAYER METAL OXIDES, X-RAY ANALYSIS OF STEEL CRYSTAL STRUCTURES, AND SPECTRAL ANALYSIS OF ALLOYS
JPRS-26774 N64-32842 24-18

THYRATRON SAMPLING AND SPECTRAL ANALYSIS OF BRASS
N64-32849 24-25

RADIO ENGINEERING - AUTOMATIC SPECTRUM ANALYZERS FOR ELECTRIC SIGNALS, ANALOG MACHINE FOR TEACHING, RADIO TRANSMITTERS, AND TRANSISTOR CIRCUITS
JPRS-26997 N64-32901 24-08

ANALOG COMPUTER SOLUTION OF EQUATIONS OF PARAMETRON WITH FERROMAGNETIC FILMS
N64-32912 24-09

MASS SPECTROSCOPY AND GAS ANALYZER FOR OXYGEN AND OTHER IMPURITIES IN ARGON AND HELIUM
NASA-CR-59004 N64-33035 24-07

SPECTROSCOPIC STUDY OF SOLAR AND PLANETARY ATMOSPHERES
NASA-CR-58772 N64-33173 24-29

SPECTROSCOPIC METHOD FOR TEMPERATURE OR PRESSURE MEASUREMENT IN LOW TEMPERATURE PLASMAS
NASA-CR-58969 N64-33202 24-24

PHOTOSYNTHETIC RESEARCH - PHOTOREACTIVATION, OXYGEN EXCHANGE, PHOSPHORYLATION AND DIFFERENCE SPECTROSCOPY
NASA-CR-59204 N64-33211 24-16

RESEARCH PROGRAMS ON NUCLEAR MAGNETIC RESONANCE, ATOMIC SPECTROSCOPY, LOW TEMPERATURE PHENOMENA, AND NUCLEAR STRUCTURE
AD-600874 N64-33265 24-23

ATTENUATED TOTAL REFLECTION SPECTROSCOPY OF PAINT VEHICLES
R-240 N64-33417 24-23

CLOSED LOOP MAGNETOPLASMADYNAMIC POWER DEVICE, AND SPECTROSCOPIC MEASUREMENT OF PLASMA TEMPERATURE & PRESSURE
REPT.-3632 N64-33824 24-24

SPECTRUM
SA ABSORPTION SPECTRUM
SA ASTRONOMICAL SPECTRUM
SA DIFFRACTION GRATING
SA EMISSION SPECTRUM
SA ENERGY SPECTRUM
SA INFRARED SPECTRUM
SA LINE SPECTRUM
SA MASS SPECTRUM
SA MICROWAVE SPECTRUM
SA MOLECULAR SPECTRUM
SA NEUTRON SPECTRUM
SA RADIATION SPECTRUM
SA RAMAN SPECTRUM
SA SCHUMANN-RUNGE BAND SYSTEM
SA SHOCK SPECTRUM
SA SOLAR SPECTRUM
SA SPECTRAL ENERGY DISTRIBUTION
SA SPECTRAL NOISE
SA SPECTRAL REFLECTANCE
SA SPECULAR REFLECTION
SA STELLAR SPECTRUM
SA ULTRAVIOLET SPECTRUM
THE SPECTRUM OF NOVA HERCULIS N64-10022 01-05

SEPARATING TWO AMPLITUDE-MODULATED SIGNALS WITH OVERLAPPING SPECTRA IN RECEIVER
JPRS-18802 N64-10644 01-09

TEMPERATURE & MAGNETIZATION INFLUENCE IN SELECTIVE ABSORPTION AND FLUORESCENCE SPECTRA
E-T-G-63-6 N64-12199 03-23

ANALYSIS OF RADAR RETURN PULSES BY APPLICATION OF COVARIANCE & POWER SPECTRAL DENSITY FUNCTIONS AND BY FOURIER & CONJUGATE TRANSFORM
SRI-MR-5 N64-13594 05-20

CONTINUOUS SPECTRUM OF VENUS AND JUPITER
N64-15156 07-05

NEUTRINO SPECTRA FROM TWO-BODY DECAY OF RELATIVISTIC PARENTS N64-15509 07-23

FREQUENCIES OF EVENTS AND EVALUATION OF DATA IN SPARK CHAMBER EXPERIMENTS - NEUTRINO SPECTRUM
N64-15512 07-23

SPECTRUM OF HYDROMAGNETIC WAVES IN EXOSPHERE DUE TO MAGNETIC STORMS
NASA-TR-R-143 N64-16006 07-12

K-BANDS OF X-RAY SPECTRUM OF IRON AND CHROMIUM DURING MAGNETIC TRANSFORMATIONS OF IRON-CHROMIUM ALLOYS N64-16221 08-23

EXTENSION OF USEFUL RANGE OF ELECTROMAGNETIC SPECTRUM
QPR-4 N64-16983 09-23

MASS-RADIUS AND MASS-LUMINOSITY RELATIONS OF STARS IN MAIN SEQUENCE OF SPECTRUM-LUMINOSITY DIAGRAM
N64-19458 12-05

EFFECT OF ELECTRIC FIELD ON GREEN FLUORESCENCE TRANSITION SPECTRUM OF ERBIUM IN SINGLE CRYSTAL CALCIUM FLUORIDE
RTD-TDR-63-4017 N64-22209 15-24

RADIO FREQUENCY INTERFERENCE - TRANSMITTER SPECTRUM SIGNATURE DATA AND RADIATED FIELD STRENGTH DATA FOR TRANSMITTER EMISSIONS
N64-22827 16-09

SPECTRUM SIGNATURE SYNTHESIS - SPURIOUS RESPONSES IN SINGLE & DOUBLE CONVERSION RECEIVERS & GAIN CHARACTERISITCS OF HIGH GAIN REFLECTOR ANTENNAS
N64-22838 16-09

SPECTRUM ANALYZER WITH 2 GC DISPLAY
N64-22843 16-09

SPECTRA OF GALLIUM-THALLIUM IODIDE FLASH LAMP
AD-437572 N64-24231 16-09

X-RAY SPECTRA OF SUPERCONDUCTORS
JPRS-25289 N64-27176 19-25

ELECTRON X-RAY SPECTRA OF SUPERCONDUCTORS
N64-27177 19-25

X-RAY SPECTRUM OF SUPERCONDUCTOR COMPOUND COPPER SULFIDE N64-27178 19-25

INTENSITY AND POLARIZATION OF FORBIDDEN BANDS OF SOLAR CORONA SPECTRUM
NASA-TT-F-8930 N64-27363 19-28

SURFACE TEMPERATURE OF LUNAR SEAS AND CONTINENTS BY RADIATION FLOW VALUES IN TWO SPECTRAL REGIONS
JPRS-26521 N64-30575 22-28

PRODUCTION, ISOLATION, AND IDENTIFICATION BY ELECTRON PARAMAGNETIC RESONANCE SPECTRUM OF OXYGEN-FLUORINE RADICALS AND COMPOUNDS
QPR-3 N64-30583 22-07

ELECTRON PARAMAGETIC RESONANCE SPECTRUM OF IRRADIATED SINGLE CRYSTALS OF ICE AT CRYOGENIC TEMPERATURES N64-30784 22-07

BISPECTRUM AS PHENOMENA OF NONLINEAR CHARACTER IN HIGHER ORDER THEORY - FOURIER TRANSFORM
TR-13 N64-33088 24-23

SPEECH
CF LANGUAGE
ANALYSIS, SYNTHESIS, AND PERCEPTION OF SPEECH
AFCRL-63-174 N64-17843 10-08

ANALYSIS AND SYNTHESIS OF SPEECH, AND USE OF PROCEDURES FOR STUDYING HUMAN SPEECH PROCESSES
N64-17882 10-16

PHONOLOGY, MORPHOLOGY, SYNTAX, LANGUAGE LEARNING & DISTURBANCES, LINGUISTIC CHANGE, SEMANTICS, AND LOGICAL FOUNDATIONS OF LANGUAGE THEORY
N64-17883 10-01

PHYSIOLOGICAL STUDIES OF SPEECH PROCESS FOR CONSTRUCTING AUTOMATIC SPEECH RECOGNITION SYSTEMS
N64-23767 16-16

ACOUSTIC SPECIFICATION OF SPEECH
AFCRL-64-263 N64-26499 18-16

VOCODER EVALUATION RESEARCH - DIGITAL SPEECH TRANSMISSION AND SPEECH BANDWIDTH COMPRESSION
CR-64-558-1 N64-26896 18-08

EFFECT OF PROLONGED BREATHING OF HELIUM-OXYGEN ON SPEECH INTELLIGIBILITY
AD-602545 N64-28298 20-14

CHANNEL VOCODER SIGNAL POWER SPECTRUM OF SPEECH ENERGY AVERAGE
ESD-TDR-64-58 N64-33319 24-08

SPEECH - ANALYSIS, PRODUCTION, AND PERCEPTION
REPT.-4 N64-33416 24-08

UNCONVENTIONAL TRANSDUCTION OF SPEECH TO TACTILE SENSATION BY TACTIPHON SIGNAL GENERATOR
AL-TDR-64-243 N64-33533 24-08

SPEECH DISCRIMINATION
COMPUTATION AND MEASUREMENT OF SPEECH INTELLIGIBILITY - OPTIMAL ELECTROACOUSTIC VOICE CHARACTERISTICS
JPRS-21885 N64-10381 01-01

SIGNIFICANT PARAMETERS OF SPEECH FOR APPLICATION IN AUTOMATIC SPEECH RECOGNITION SYSTEMS
FSC-T-4/114 N64-12304 03-08

SOUND SPECTRUM ANALYSIS, SYNTHETIC VOWEL SPECTRUM ENVELOPES, AND PERCEPTION OF INTONATION IN FRENCH, ENGLISH, AND SWEDISH SPEECH
AD-424609 N64-12975 04-14

SPEECH SOUND DISCRIMINATION - RAPID REPETITION AND LETTER RECORDING OF CONSONANTS
E-T-R-63-10 N64-13864 05-08

PHONETICS - STUDIES OF BRITISH, HUNGARIAN, AND GERMAN SPEECH
AFCRL-64-86 N64-16802 08-14

PSYCHOLOGICAL RESEARCH ON SPEECH DISCRIMINATION
AMRL-TDR-63-94 N64-16805 08-14

DIGITAL COMPUTER SYSTEMS & COMPONENTS, AUTOMATIC SPEECH RECOGNITION RESEARCH
ESD-TDR-63-575 N64-17628 09-01

MULTIDIMENSIONAL MODEL FOR AUTOMATIC SPEECH RECOGNITION
AFCRL-64-85 N64-20123 13-15

MACHINE DISCRIMINATION OF SPEECH AND CARDIAC SOUNDS TO MEASURE PILOT STRESS BY CHANGES IN VOICE AND HEART FUNCTION SOUND
NASA-CR-53501 N64-20597 13-14

COMPARISON OF GRAMMAR OF CHILDREN WITH FUNCTIONALLY DEVIANT AND NORMAL SPEECH
N64-25608 17-14

SPEECH DISCRIMINATION, VOICE COMMUNICATION, AND STUDIES OF SPEECH TRANSMISSION EFFICIENCY
STL-QPSR-3/1963/ N64-26675 18-14

PARAMETER STUDY FOR AUTOMATIC SPEECH RECOGNITION SYSTEMS
RADC-TDR-64-196 N64-31908 23-08

SPEED
S AIRSPEED
S LANDING SPEED
S SUBSONIC SPEED

SPEED REGULATION
ROTATIONAL SPEED CONTROL FOR SNAP 2 POWER CONVERSION
ER-5075 N64-17220 09-06

OPTIMUM SPEED INDICATOR AND REGULATOR FOR RIVER BOATS N64-23091 16-15

SPERT REACTOR
DESTRUCTIVE AND NONDESTRUCTIVE TESTING OF SPERT I-D REACTOR
IDO-16886 N64-13369 04-23

SPERT REACTOR KINETIC BEHAVIOR DURING DESTRUCTIVE AND NONDESTRUCTIVE TESTING
EUR-497.E N64-20873 14-23

SPHERE
SA MAGNETOSPHERE
SA OGIVE
SA SPHERICAL SHELL
DISTORTING INFLUENCE OF EARTH-AIR DISCONTINUITY ON ELECTRIC FIELD OF VERTICALLY POLARIZED SPHERE N64-10166 01-12

BROADBAND LINE SOURCE ILLUMINATOR FOR SPHERICAL REFLECTING SURFACE
AFCRL-63-302 N64-11457 03-23

SHOCK-WAVE SHAPES AND STAGNATION-POINT LOCATIONS FOR SPHERICALLY BLUNTED BODIES AT LARGE ANGLES OF ATTACK
NASA-TN-D-1980 N64-11897 03-02

INFLUENCE OF VIBRATION OF SPHERE ON CONVECTIVE HEAT & MASS EXCHANGE IN TURBULENT FLOW N64-11968 03-13

ELASTIC STRESSES & STRAINS FROM PRESSURE LOADING AND RADIAL TEMPERATURE GRADIENT FOR CIRCULAR DISK, CYLINDER, AND SPHERE
SSD-TDR-63-227 N64-12268 03-33

MICROWAVE SCATTERING BY WRINKLED SPHERE
NASA-CR-55163 N64-13182 04-23

SPARK SCHLIEREN PHOTOGRAPHS OF FREE & SUPPORTED CONE AND SPHERE MODEL SUPERSONIC & HYPERSONIC WAKES
NASA-CR-53014 N64-13270 04-02

EXPRESSIONS FOR WAVE LENGTH EXPONENT OF LATERAL LIGHT SCATTERING AND TURBIDITY FOR ISOTROPIC NONABSORBING SPHERES
AD-426133 N64-13984 05-23

TWO-SPHERE BOUNDARY-VALUE PROBLEM FOR EFFECT OF ELECTROSTATIC FIELDS ON DROPLET PAIRS, AS IN WARM CLOUD PRECIPITATION - FORCES AND FIELD STRENGTH
RM-3860-PR N64-15380 07-23

THEORETICAL AND EXPERIMENTAL HEAT TRANSFER TO YAWED SPHERE-CONE MODEL AT SUPERSONIC SPEEDS N64-15639 07-13

LIFT COEFFICIENT OF SPHERE MOVING IN CIRCULAR TUBE
IS-615 N64-16671 08-02

DIURNAL VARIATION OF SOLAR ULTRARADIATION IN THERMOSPHERE N64-17003 09-12

UPPER AIR DENSITY AND TEMPERATURE MEASURED BY RADAR-TRACKED FALLING SPHERES
NASA-CR-29 N64-17831 09-12

FIELD ANALYSIS BY INTEGRALS APPLIED WITH ELECTRONIC COMPUTER TO TEST FIELDS OVER SURFACE OF SPHERE
NASA-CR-53470 N64-18171 10-12

ELECTRICAL COAGULATION OF SPHERICAL AEROSOL PARTICLES
FTD-MT-63-70/162 N64-18676 11-23

ANALYSIS OF SOLAR MAGNETIC FIELDS AND CHROMOSPHERIC PHENOMENA
AD-433517 N64-18768 11-12

VIBRATION OF SPHERE FOR DETERMINING DILATATIONAL CONSTANTS OF VISCOELASTIC MATERIALS
CRREL-132 N64-19127 11-23

MONTE CARLO METHOD APPLIED TO HYDROGEN DIFFUSION IN THERMOSPHERE
NASA-RP-159 N64-19149 11-12

TWO-DIMENSIONAL SELF-FOCUSING ANTENNA ARRAY MODEL AND SCATTERING FROM METAL SPHERES
RADC-TDR-64-40 N64-20027 13-09

CRITICAL DIMENSIONS OF URANIUM-GRAPHITE-WATER SPHERES, INFINITE SLABS, AND INFINITE CYLINDERS
LAMS-2955 N64-20885 14-23

EQUATIONS FOR MOTION AND INTERNAL ENERGY BALANCE OF SELF-GRAVITATING SPHERICAL LIQUID MASS WITH INTERNAL HEAT SOURCE
REPT. 562/07//53 N64-21164 14-23

INFRARED RADIATION MEASUREMENT OF LAMINAR WAKE OF HYPERSONIC NYLON SPHERE
BSD-TDR-64-32 N64-22309 15-13

ALBEDO METHOD ANALYSIS OF INTERACTION OF SUBCRITICAL SPHERICAL & CYLINDRICAL BODIES IN AIR N64-22928 16-23

NUMERICAL CALCULATIONS OF HYPERSONIC AIR FLOWS OVER POINTED AND SPHERICALLY TIPPED BODIES AT SMALL ANGLES OF YAW
AIAA PAPER-64-430 N64-23328 16-02

RELAXATION EFFECTS IN TRANSPORT PROPERTIES OF GAS OF ROUGH SPHERES
NASA-CR-56553 N64-23525 16-23

PLASMA SHEATH AND SCREENING AROUND STATIONARY CHARGED SPHERE AND FAST-MOVING CHARGED BODY
NASA-CR-56226 N64-23930 16-23

THERMAL UPPER LIMIT ON EDDY DIFFUSION IN MESOSPHERE AND LOWER THERMOSPHERE N64-24232 16-12

NUCLEAR PROCESSES IN CHROMOSPHERIC FLARES
NASA-TT-F-214 N64-24836 17-23

NATURAL FREQUENCIES FOR AXISYMMETRIC VIBRATION OF DEEP SPHERICAL CAP
AMRA-TR-63-23 N64-25018 17-33

ONSET OF CONVECTIVE MOTIONS IN RAPIDLY ROTATING FLUID SPHERE
TR-57 N64-25242 17-11

RELATION BETWEEN SKIN FRICTION AND HEAT TRANSFER ON SURFACE OF SPHERE AT SUPERSONIC SPEEDS - PRESSURE DISTRIBUTION AND BOUNDARY LAYER MEASUREMENTS
DTMB-AERO-1054 N64-25518 17-13

ABLATION OF SOLID LOW CONDUCTIVITY MATERIAL
PIBAL-683 N64-26064 18-13

WIDTH OF TURBULENT INNER WAKE BEHIND THREE INCH DIAMETER SOLID ALUMINUM SPHERE
CARDE-TN-488/64 N64-26068 18-11

COSMIC RAY INTENSITY VARIATIONS IN STRATOSPHERE CAUSED BY CHROMOSPHERIC SOLAR FLARES
JPRS-25641 N64-26085 18-28

MEASUREMENT OF SHOCK DETACHMENT DISTANCE ON SPHERES FIRED IN AIR AT HYPERVELOCITIES N64-26152 18-02

PRECISION TURNING OF SPHERICAL SPECIMENS OF ALUMINUM, NICKEL, AND COPPER
Y-1463 N64-26477 18-17

RADAR SCATTERING FROM CONDUCTING CONE-SPHERE
ESD-TDR-64-37 N64-26760 18-08

ELECTROMAGNETIC INDUCTION ON EXPANDING CONDUCTING SPHERE
TR-421 N64-26940 18-11

CREEPING WAVE CONTRIBUTION TO MONOSTATIC RADAR

SCATTERING CROSS SECTION FROM HOMOGENEOUS SPHERE AS FUNCTION OF INDEX OF REFRACTION
REPT.-64SD702 N64-27608 19-08

EFFECT OF COMPRESSIBILITY, ROTATION, AND MAGNETIC FIELD ON DRAG ON SPHERE OSCILLATING IN CONDUCTING VISCOUS MEDIUM
NASA-TM-X-55051 N64-28084 20-11

PROPAGATION OF SEISMIC WAVES IN SOLID SPHERE
AFCRL-64-647 N64-28237 20-12

SURFACE FINISH OF SPHERES AND PRODUCTION OF SPHERES AND LIMITERS OF YTTRIUM-IRON GARNET /YIG/ CRYSTAL
SJ222-0045-3 N64-28502 20-09

LAMINAR BOUNDARY LAYER ON ROTATING SPHERE IN FLUID AT REST
NASA-TN-D-2491 N64-29338 21-11

FORCED VIBRATION CHARACTERISTICS OF PARTIALLY FILLED SPHERICAL TANKS - LIQUID SLOSHING
NASA-CR-58652 N64-29402 21-33

EFFECTS OF ERRORS IN FACULA-PHOTOSPHERE CONTRAST OBSERVATIONS ON ACCURACY OF FACULA SOURCE FUNCTION DETERMINATIONS
NASA-TT-F-235 N64-29512 21-05

FORCES ON SPHERE ACCELERATING IN VISCOUS FLUID - DRIFTING SNOW
RR-128 N64-29868 21-11

FALLING SPHERE MEASUREMENTS OF HIGH ALTITUDE ATMOSPHERIC DENSITY, TEMPERATURE, AND PRESSURE
AFCRL-64-554 N64-29910 21-21

PROPERTIES OF SOLAR CORPUSCULAR STREAMS FROM CHROMOSPHERIC FLARES N64-30282 22-28

NUMERICAL CALCULATIONS OF HEAT TRANSFER RATES ON SPHERES AND CONES IN AIR AT THERMODYNAMIC EQUILIBRIUM
CARDE-TR-479/64 N64-31018 22-13

OSCILLATIONS OF SPHERE IN INCOMPRESSIBLE VISCOUS FLUID ROTATING WITH CONSTANT ANGULAR VELOCITY
NASA-RP-313 N64-31443 23-11

MOTION AND NET DRAG COEFFICIENTS OF FREE MOVING SPHERES - BALLOON WIND SENSORS
NASA-TM-X-53089 N64-31549 23-04

COMPARISON OF THEORETICAL LAMINAR HEAT TRANSFER RATES TO YAWED SPHERE-CONE MODEL AT SUPERSONIC SPEEDS
NOLTR-63-208 N64-31669 23-13

POINT OF INSTABILITY OF GENERAL RELATIVISTIC FLUID SPHERE WITH CONSTANT ENERGY DENSITY AND HEAT CAPACITY
MRC-487 N64-31960 23-23

RADIAL VELOCITIES IN FLOCCULI AND UNDISTURBED CHROMOSPHERE AND RELATION TO MAGNETIC FIELDS - MOTION OF IONIZED CALCIUM
AD-420769 N64-32078 23-28

NONSTATIONARY, ONE-DIMENSIONAL HEAT FLOW IN LEVEL PLANE, CYLINDER, SPHERE, AND SEMIINFINITE BODY BY FOURIER EQUATIONS N64-32182 23-13

INTERNAL BLAST WAVES IN SPHERES
QPR-10 N64-32247 23-23

AXISYMMETRIC, ALIGNED MAGNETOHYDRODYNAMIC VISCOUS FLOWS ABOUT MAGNETIZED SPHERICAL BODIES
CM-1047 N64-32273 23-24

TORSIONAL VIBRATION OF SPHERE - SEISMIC WAVE ANALOG
AFCRL-63-916 N64-32392 23-12

MAGNETOGASDYNAMIC EFFECTS IN FLOW BEHIND SPHERE
BSD-TDR-64-107 N64-32665 23-24

DESIGN OF MINIMUM WEIGHT SABOT FOR BALLISTIC LAUNCHING OF SPHERES
CARDE-TR-490/64 N64-33487 24-10

CHARGING OF CONDUCTING SPHERE IN CONCENTRIC VACUUM BY THERMIONIC EMISSION - SQUID PROJECT
ILL-15-P N64-33946 24-23

SPHERICAL HARMONICS
ANALYSIS OF GEOMAGNETIC FIELD FOR 1955 BY SPHERICAL HARMONICS N64-16284 08-12

MAGNETIC BREAKDOWN IN CRYSTALS, SPACE GROUP SYMMETRY, SPHERICAL HARMONICS, AND COVALENCY IN CRYSTAL FIELD THEORY
QPR-52 N64-20412 13-25

EXPRESSION OF SOLID SPHERICAL HARMONIC ON ONE CENTER AS COMBINATION OF SOLID SPHERICAL HARMONICS ON ANOTHER CENTER USING LAPLACE EQUATION
N64-20415 13-20

PERTURBATION OF GEOMAGNETIC FIELD - SPHERICAL HARMONIC EXPANSION N64-24149 16-12

EXPRESSION OF LUNAR SURFACE IN TERMS OF SPHERICAL HARMONICS
AFCRL-64-428 N64-24205 16-29

THREE-DIMENSIONAL ADDITION THEOREM FOR ARBITRARY FUNCTIONS INVOLVING EXPANSIONS IN SPHERICAL HARMONICS N64-25881 18-23

ACCURACY OF SPHERICAL HARMONICS COMPUTED FROM GRAVITY ANOMALIES AND ACCURACY OF USING GRAVITY MEASUREMENTS FOR ORBIT PREDICTION
AFCRL-64-566/VI/ N64-30948 22-12

MULTIGROUP ONE-DIMENSIONAL SPHERICAL HARMONIC SOLUTIONS TO BOLTZMANN TRANSPORT EQUATION
IDO-16998 N64-31062 22-23

FORTRAN SUBROUTINE TO DETERMINE COMPONENTS OF EARTH MAGNETIC FIELD AS FUNCTION OF ALTITUDE AND GEOGRAPHIC COORDINATES FROM SPHERICAL HARMONIC EXPANSION
RRL PUBL.-220 N64-32368 23-12

COMPUTATION OF MAIN GEOMAGNETIC FIELD FROM SPHERICAL HARMONIC EXPANSIONS
NASA-TM-X-55105 N64-33629 24-12

SPHERICAL SHELL
EXPLOSION CONTAINER - SPHERICAL CONCRETE SHELL WITH OUTER STEEL SKIN
LA-2901 N64-13909 05-34

CANONICAL TRANSFORMATIONS IN ANGULAR-MOMENTUM REPRESENTATION OF LOW ENERGY SPHERICAL NUCLEI - QUASI-PARTICLE INTERACTIONS
UCRL-11080 N64-14164 05-23

THEORY OF ELASTIC RESPONSE OF THIN SPHERICAL SHELL TO AXISYMMETRIC BLAST LOADING FROM DETONATION OF ECCENTRICALLY PLACED INTERNAL EXPLOSIVE CHARGES
BRL-MEMO-1520 N64-14674 06-33

DYNAMIC RESPONSE OF THIN, UNIFORM, TRUNCATED SPHERICAL SHELL TO AIRBLAST INDUCED SHOCK LOADS
NA63H-1035 N64-15056 07-33

STRENGTH OF SPHERICAL AND CYLINDRICAL SHELLS AND EFFECT OF NEUTRON IRRADIATION
FTD-TT-62-719/1&2&4 N64-16058 07-23

STABILITY OF SPHERICAL PLATE ELEMENTS IN ELASTIC AND PLASTIC RANGES
NASA-CR-53318 N64-17762 09-33

BUCKLING OF CLAMPED SHALLOW SPHERICAL SHELLS UNDER UNIFORM EXTERNAL PRESSURE
SM-63-53 N64-17851 10-33

ELASTIC AND PLASTIC STABILITY OF ORTHOTROPIC SPHERICAL SHELLS
NASA-CR-53354 N64-18297 10-33

ESTIMATION OF SURFACE TEMPERATURES AT STAGNATION POINT OF SPHERICAL SHELLS
CARDE-TN-1607/64 N64-18637 11-13

AXISYMMETRIC CREEP BUCKLING OF CLAMPED SHALLOW SPHERICAL SHELLS
TR-145 N64-20350 13-13

RESPONSE OF SUBMERGED SPHERICAL SHELLS TO INTERNAL BLAST LOADING
BRL-1231 N64-21805 15-33

STRESS AND STRAIN ANALYSIS OF SPHERICAL PYROLYTIC CARBON SHELLS
ORNL-3553 N64-22242 15-17

ABSORPTION AND SCATTERING COEFFICIENTS OF PLANE ELECTROMAGNETIC WAVE IMPINGING ON SPHERICAL SHELL
N64-22839 16-09

RAYLEIGH-RITZ METHOD USED TO SOLVE STABILITY OF PROLATE SPHEROIDAL SHELLS UNDER UNIFORM EXTERNAL PRESSURE
DTMB-TRANS-317 N64-24098 16-11

NONLINEAR SNAP BUCKLING OF SPHERICAL SHELLS
REPT.-383 N64-24885 17-33

NONLINEAR BOUNDARY VALUE PROBLEM FOR AXISYMMETRIC BUCKLING OF THIN SPHERICAL SHELLS UNDER UNIFORM EXTERNAL PRESSURE
IMM-NYU-324 N64-25398 17-33

RUPTURE SURFACES OF THICK SPHERICAL SHELLS UNDER INTERNAL PRESSURE
DI-82-0336 N64-25886 18-33

NEUTRON FLUX DISTRIBUTIONS MEASURED IN SYSTEM OF LARGE SPHERICAL CAVITY IN WATER
NASA-CR-54110 N64-26349 18-23

PHYSICAL INTERPRETATIONS OF SOLUTIONS TO EQUATIONS FOR ELASTIC SHALLOW THIN SPHERICAL SHELLS
N64-26552 18-33

COMPUTATION OF TRANSIENT TEMPERATURE IN SPHERICAL VOLUME CONTAINING CONTIGUOUS SPHERICAL GRAPHITE SHELLS HEATED BY CONDUCTION - NECKLACE PROGRAM
LA-3115-MS N64-30868 22-20

DYNAMIC THERMAL AND PRESSURE STRESSES IN THIN SPHERICAL SHELLS
PWA-2386 N64-31119 22-33

ENERGY SOLUTION TO BUCKLING OF SPHERICAL SHELLS
RS-TN-64-1 N64-33149 24-33

TRANSIENT CREEP IN THICK WALL SPHERICAL SHELLS
N64-33710 24-33

SPHERICAL WAVE
SPHERICAL SHOCK WAVES AND CAVITY FORMATION IN METALS WITH HYPERVELOCITY IMPACT
N64-13526 05-23

PROPERTIES OF SPHERICAL SHOCK WAVES CAUSED BY HYPERVELOCITY IMPACT N64-13527 05-23

SPREADING OF SPHERICAL AND CYLINDRICAL WAVES
DVL-280 N64-15027 07-11

PROPAGATION OF SPHERICAL SHOCK WAVE THROUGH ALUMINUM-GLASS INTERFACE N64-16261 08-23

THEORETICAL STUDY OF WAVE PROPAGATION BY EXPLOSION IN SPHERICAL CAVITY IN METAL
GPR-9 N64-29561 21-33

SPHEROID
OBLATE SPHEROIDAL METHOD FOR SATELLITE ORBITS - GRAVITATIONAL POTENTIAL & PERTURBING POTENTIAL
N64-10304 01-12

INSTRUMENT FOR DETERMINING CRUSHING STRENGTH OF FUEL PARTICLES
ORNL-3512 N64-11385 02-26

DIFFRACTION OF PLANE SOUND WAVES BY ACOUSTICALLY PENETRABLE OBLATE SPHEROID
USCEC-82-213 N64-11449 03-23

NONDESTRUCTIVE NEUTRON ACTIVATION ANALYSIS TO ESTABLISH ORIGIN OF MICROSCOPIC SPHERULES
NASA-CR-55440 N64-14902 06-23

ASYMMETRICALLY FED, DIELECTRIC COATED, PROLATE SPHEROIDAL ANTENNA
USCEC-82-204 N64-14991 06-09

MULTIPARAMETRIC THEORY OF SPHEROIDS IN HYDROSTATIC EQUILIBRIUM
AD-603073 N64-33483 24-23

SPIN
SA ANGULAR MOMENTUM
PROPERTIES OF SPHERICAL NUCLEI - MAGNETIC DIPOLE MOMENTS, SPIN-DEPENDENT FORCES, AND APPROXIMATION OF STATE EXCITATION
AROD-2890-4 N64-12671 04-23

ROTATION-BALANCE AERODYNAMIC WIND TUNNEL DATA AND DIGITAL COMPUTER STUDY OF DEVELOPED SPINS AND RECOVERY OF SWEPTBACK-WING AIRCRAFT CONFIGURATION
NASA-TN-D-2181 N64-15330 07-04

FREE ENERGY OF SPIN SYSTEM IN REGULAR LATTICES
AD-429544 N64-15954 07-23

EFFECTS OF MAGNETICALLY INDUCED EDDY-CURRENT TORQUES ON SPIN OF EARTH SATELLITE
NASA-TN-D-2198 N64-18956 11-29

CORIOLIS EFFECTS IN VIBRATION AND SPIN TESTING IN CENTRIFUGE
NASA-TN-D-1914 N64-21422 14-10

SPIN FROM NORMAL, ACCELERATED, AND VERTICAL ENTRIES OF YT-2B AIRCRAFT
NATC-TR-FT2122-19R-64 N64-21569 15-04

MANUFACTURING TECHNIQUES FOR SHEAR SPINNING OF ROCKET MOTOR CASES
AMC-TR-63-7-711 N64-22693 15-17

SPIN-DROP METHOD OF MEASUREMENT OF RADAR CROSS SECTION OF MODEL IN ANECHOIC CHAMBER
N64-24312 17-08

RATE EQUATIONS DERIVED FOR SIX-LEVEL MASER USING CROSS RELAXATIONS BETWEEN SPIN LEVELS IN PHOSPHORUS-BORON DOPED SILICON
AFCRL-64-243 N64-28577 20-25

METHODS FOR DETERMINATION OF SPIN AND EQUALITY OF RESONANCES
CERN-64-33 N64-28641 20-23

SPIN ECHO PHENOMENA - MEASUREMENT OF NUCLEAR MAGNETIC RELAXATION & MICROSTRUCTURE OF MOLECULES, APPLICATION IN PREPARATION OF DELAY LINES & STORAGE UNITS N64-29055 21-23

USING POLARIZED THERMAL NEUTRONS AND PARITY NONCONSERVATION OF BETA DECAY TO DETERMINE SPIN LEVELS OF COMPOUND NUCLEUS N64-29056 21-23

COMPUTER ANALYSIS OF CHEMICAL EXCHANGE RATE FROM NUCLEAR MAGNETIC RESONANCE SPIN ECHOES
TR-71 N64-30737 22-07

TWO-COMPONENT ANOMALOUS SPINOR EQUATIONS FOR PARTICLES OF NONVANISHING MASS DERIVED FROM COVARIANT LAGRANGIAN PRINCIPLE
ARL-64-163 N64-30950 22-23

FIBER PATTERNS FOR UNIFORM TENSION IN SPINNING FILAMENTARY DISK
NASA-CR-106 N64-31203 22-33

FLYING QUALITIES AND SPIN EVALUATION OF EXTENDED WING MOHAWK AIRCRAFT
FT-134-0-IA.8 N64-31303 22-04

DYNAMIC PROPERTIES OF MAGNETIC PHASE TRANSITIONS - RELAXATION TIME OF SPIN-FLOPPING TRANSITION IN CUPRIC CHLORIDE DIHYDRATE CRYSTALS
MC-62-49-R4 N64-32104 23-25

ANGLE-OF-ATTACK CONVERGENCE OF SPINNING BODIES ENTERING PLANETARY ATMOSPHERES AT LARGE INCLINATIONS TO FLIGHT PATH
NASA-TR-R-210 N64-32435 23-23

SPIN ORBIT INTERACTION
SEPARATION OF DIRAC EQUATION AND STUDY OF SPIN ORBIT COUPLING AND FERMI CONTACT INTERACTION
TN-110 N64-20454 13-23

COMPARISON OF HARTREE-FOCK ORBITAL WITH FIRST NATURAL SPIN ORBITAL FOR TWO-ELECTRON SYSTEM
NASA-CR-56669 N64-27386 19-23

SPIN RESONANCE
SPIN RELAXATION OF OPTICALLY PUMPED CESIUM VAPOR AS FUNCTION OF BUFFER GAS PRESSURE FOR VARIOUS INERT GASES
R-202 N64-25862 18-23

ELECTRONIC SPIN ECHO RESONANCE PHENOMENA IN PARAMAGNETIC SYSTEMS
REPT.-3-53-64-1 N64-33643 24-25

SPINE
SPINAL MOTOR RESPONSES TO AUDITORY STIMULI
NASA-CR-58548 N64-28833 20-16

EFFECT OF ELECTRIC STIMULATION ON SPINOCERVICAL TRACT OF CAT N64-33264 24-16

SPINEL
ELASTIC PROPERTIES OF MAGNESIUM OXIDE & MAGNESIUM ALUMINATE SPINEL
AD-432276 N64-20691 13-19

ELASTIC PROPERTIES OF POLYCRYSTALLINE MAGNESIUM ALUMINATE SPINEL N64-20693 13-19

MIXING MECHANISMS STUDY BY MEASURING AMOUNT OF SPINEL FORMED BY SINTERING ALUMINUM & MAGNESIUM OXIDE POWDERS
ASD-TDR-62-732, PT. II N64-21236 14-17

SPIRAL
SPIRALIZATION OF TRANSPORT RIBONUCLEIC ACID MEASURED BY DURATION OF FLUORESCENCE OF ACRIDINE ORANGE DYE
JPRS-22521 N64-12067 03-16

SPIRAL ANTENNA
PHASE SHIFT DEVICE AND INTEGRATION OF TRANSISTOR AMPLIFIER INTO SLOTTED AND SPIRAL ANTENNAS
REPT.-1566-7 N64-16071 07-09

SPIRAL ANTENNA DIRECTION FINDER TO DETERMINE AZIMUTH AND ELEVATION OF ELECTROMAGNETIC WAVEFRONT
HDL-TR-1221 N64-28796 20-15

SPIRAL BAND
DYNAMIC MODELS WITH CORIOLIS EFFECT TO EXPLAIN FORMATION OF SPIRAL CLOUD BANDS IN HURRICANES AND CYCLONES
GCA-TR-63-4-G N64-11945 03-21

SPIRAL BAND HEAT EXCHANGER
FTD-TT-62-292/1&2&4 N64-22154 15-10

SPIRAL GALAXY
MOTIONS OF BARRED SPIRAL GALAXY - SPECTROSCOPIC OBSERVATION OF VELOCITY FIELD OF NGC 925
NASA-CR-53823 N64-19315 12-05

SPLEEN
SA BLOOD
CF ANATOMY
NUCLEIC ACID METABOLISM IN RAT SPLEEN AND BONE MARROW DURING ACUTE RADIATION SICKNESS N64-12781 04-16

SMALL & LARGE SIZE RADIOALBUMIN AGGREGATES FOR PHOTOSCANNING LIVER, SPLEEN, LUNGS, & OTHER ORGANS
UCLA-519 N64-13004 04-16

PURIFICATION AND IDENTIFICATION OF FACTOR FROM CALF SPLEEN WHICH PREVENTS RADIATION INJURIES
AD-432125 N64-16831 08-16

SPLEEN, LYMPH NODES, AND LOOSE CONNECTING TISSUE REACTIONS TO ANTIGENIC STIMULI IN IRRADIATED ANIMALS N64-30244 22-16

RADIOSENSITIVITY OF MICE AFTER SPLENECTOMY AND APPLICATION OF HOMOGENATE OF SPLEEN TISSUE IN CHRONIC RADIATION SICKNESS N64-30247 22-16

SPLINE FUNCTION
NUMERICAL PROCEDURES FOR INTERPOLATION BY SPLINE FUNCTIONS
MRC-450 N64-18017 10-20

INTERPOLATION BY GENERALIZED SPLINE FUNCTIONS
MRC-476 N64-27716 19-20

SPOILER
SA FLAP
CF CONTROL SURFACE
SUBSONIC WIND TUNNEL TEST OF JET STREAM SPOILER TO IMPROVE SEPARATION CHARACTERISTICS OF STORE CARRIED BENEATH WING OF HIGH SPEED AIRCRAFT
DTMB-AERO-1059 N64-12057 03-02

EFFECT OF SOLID & JET SPOILERS ON FLAT PLATES IN TRANSONIC TANGENTIAL FLOW
NASA-CR-53257 N64-17493 09-03

BODY FLAPS, SPOILERS, & COLD GAS REACTION JETS FOR CONTROL IN HYPERSONIC FLIGHT
OR-3719 N64-30761 22-02

SPORADIC E LAYER
REINTERPRETATION OF DATA ON DETECTION OF MID-LATITUDE SPORADIC E-LAYERS AND WIND SHEARS
NASA-CR-52564 N64-11324 02-12

SPORADIC E-LAYERS PRODUCED BY IONOSPHERIC WIND SHEAR
NASA-CR-55105 N64-12158 03-12

POLARIZATION OF RADIO ECHOES FROM HIGH GRADIENT SPORADIC REGION IN E-LAYER N64-19684 12-12

HIGH FREQUENCY RADIO WAVE REFLECTION BY SPORADIC E LAYER OF IONOSPHERE
WRE-TN-CPD/T/101 N64-20626 13-12

SPORADIC E LAYER PHENOMENA ASSOCIATED WITH HIGH ALTITUDE NUCLEAR EXPLOSION N64-20757 14-12

SPORADIC IONOSPHERIC E-LAYER EFFECT ON DAILY VARIATIONS OF GEOMAGNETIC FIELD
NASA-TT-F-8902 N64-25286 17-12

OBLIQUE TRANSMISSION PROPERTIES OF MAGNETIC EQUATORIAL SPORADIC E LAYER
WRE-TN-CPD-/T/-108 N64-28135 20-08

WIND SHEAR & IONIZATION PROFILES IN SPORADIC E LAYERS N64-30069 21-12

PROBABILITY OF RADIO COMMUNICATION THROUGH SPORADIC E LAYER OF IONOSPHERE
JPRS-26529 N64-30755 22-08

VERTICAL DISPLACEMENT OF SPORADIC E LAYER
NASA-TT-F-8951 N64-30844 22-12

FIREFLY PROJECT DATA ON IONOSPHERIC WINDS & SHEARS WITH SPORADIC E LAYER CORRELATIONS N64-31389 23-12

WIND SHEAR THEORY OF SPORADIC E LAYER APPLIED TO FIREFLY PROJECT ELECTRON DENSITY PROFILES N64-31390 23-12

SPORADIC METEOR
ANNUAL VARIATION IN RADIANT DISTRIBUTION OF SPORADIC METEORS N64-24057 16-03

SPORE
CF BACTERIA
GERMINATION AND GROWTH OF BACTERIAL SPORES IN SIMULATED MARTIAN ENVIRONMENT
SAM-TDR-63-75 N64-12340 03-10

CHROMOSOME REARRANGEMENT IN MICROSPORES UNDER INFLUENCE OF SPACE FLIGHT CONDITIONS
JPRS-22585 N64-12393 03-10

SPOT WELDING
CF ARC WELDING
SPOT WELDING OF SINTERED ALUMINUM POWDER WITH

ALUMINUM ALLOYS
JPRS-22422 N64-12010 03-17

SPOT WELDING OF PATCHES OF SILVER-LITHIUM & COPPER BRAZING ALLOYS FOR STATIC & SHEAR FATIGUE STRENGTH
FGT-2999 N64-12648 04-18

ARGON ARC, SPOT, AND ROLLER WELDING OF NIOBIUM ALLOYS, AND PROPERTIES OF WELDED JOINTS
JPRS-22597 N64-12702 04-17

SPOT WELDING CHARACTERISTICS OF TITANIUM ALLOYS
NAEC-AML-1815 N64-15819 07-18

ULTRASONIC SPOT WELDING OF ALUMINUM ALLOY SHEET
A461 N64-16781 08-17

SPOT & SEAM RESISTANCE WELDING OF TITANIUM
N64-17094 09-17

DETERMINATION OF RESISTANCE WELDABILITY OF TZM MOLYBDENUM ALLOY THIN SHEET
A475 N64-17133 09-17

RESISTANCE WELD EVALUATION OF TANTALUM ALLOY
A749 N64-22591 15-17

NONDESTRUCTIVE TESTING OF SPOT WELDS BY ULTRASONIC RADIATION PENETRATION
RSIC-263 N64-31822 23-17

ULTRASONIC TRANSDUCER FOR NONDESTRUCTIVE INSPECTION OF RESISTANCE SPOT WELDS DURING FORMATION
R-1729 N64-32929 24-17

SPRAY
SA DROP
CF LIQUID
SPRAY PROCESS IN PREPARATION OF CATHODOLUMINESCENT FILMS
AL-TDR-64-15 N64-19102 11-25

PLASMA ARC SPRAY PROCESS AS MATERIAL DEPOSITION METHOD FOR AEROSPACE INDUSTRY
FZM-4044 N64-20072 13-17

HEAT TRANSFER FROM HOT SODIUM SPRAY IMPINGING ON VERTICAL PLATE N64-20502 13-13

DISTURBANCE AND SPRAY CAUSED BY VTOL AIRCRAFT HOVERING ABOVE WATER
REPT.-012-26 N64-22907 16-04

EFFECT OF SALT SPRAY ON CORROSION OF FASTENERS
A734 N64-24208 16-17

RADIOACTIVE ISOTOPES IN SALT SPRAY TESTING FOR EVALUATION OF METAL SURFACE PROTECTIVE COATINGS
PA-TM-1271 N64-25299 17-18

EFFECT OF SPRAY PARTICLES FROM PENETRATION OF THIN TARGETS BY HYPERVELOCITY PARTICLES
APL-TDR-64-60 N64-29943 21-33

SPRAYING
IMPROVING CHARACTERISTICS OF CHEMICALLY SPRAYED THIN FILM PHOTOVOLTAIC CONVERTERS - SOLAR CELLS
ASD-TDR-63-223, PT. 2 N64-16500 08-06

DIFFUSION OF PARTICLES FROM SOURCES OF AIR POLLUTION AND CRITERIA FOR LIMITS OF POLLUTION IN TERMS OF SKY BRIGHTNESS NEAR SUN
AFCRL-63-240 N64-18402 10-28

SPRAY RIGIDIZATION OF MIRROR OF SOLAR MECHANICAL POWER GENERATOR
GER-10252/S14 N64-18502 10-06

THICKNESS MONITORING DEVICE FOR THIN FILMS OBTAINED BY VACUUM SPRAYING
FTD-TT-62-1863/1&2&4 N64-21967 15-15

METAL SPRAYING OF GLASS FIBER RADAR TARGET MODELS
N64-24315 17-08

DEPOSITION OF PHOSPHOR CATHODOLUMINESCENT FILM BY SOLUTION SPRAY TECHNIQUE
IER-3 N64-25324 17-17

SPREAD-F
CONE ANGLE MEASUREMENTS OF RADIO-WAVE ARRIVAL USING SPREAD-F ECHOES
CAL-RA-1684-P-1 N64-16893 08-12

SPREAD-F OBSERVATIONS BY ALOUETTE SATELLITE
N64-30081 21-12

SPRING
CF SUSPENSION SYSTEM
INTERNAL PRESSURE EFFECT ON HOLLOW HELICAL SPRINGS
A238 N64-13248 04-34

EFFECT OF SPRING CLEARANCE NONLINEARITY ON RESPONSE OF SIMPLE UNDAMPED MASS-SPRING SYSTEM
N64-23157 16-23

SPRING TO PREVENT OSCILLATION IN THRUST BEARING OF HIGH SPEED TURBINE
FTD-TT-63-161/1&2 N64-24264 17-17

SPUR
S SPACE POWER UNIT REACTOR /SPUR/

SPUTNIK II SATELLITE
STRUCTURAL DESIGN OF ARTIFICIAL EARTH SATELLITE - SPUTNIK II SATELLITE N64-23635 16-31

SPUTNIK III SATELLITE
SYNOPTIC VARIATIONS AND VERTICAL PROFILES OF IONOSPHERE IRREGULARITIES REPORTED BY SPUTNIK III AND COSMOS I SATELLITES N64-10423 01-12

ELECTROSTATIC FIELD INTENSITY MEASUREMENT BY SPUTNIK III SATELLITE
NASA-TT-F-8528 N64-23036 16-12

SPUTNIK IV SATELLITE
ACCURACY OF OBSERVATIONS OF ORBITAL ELEMENTS BY SPUTNIK IV SATELLITE N64-10840 02-32

MINERALOGY OF OXIDATION PRODUCTS OF SPUTNIK IV FRAGMENTS & IRON METEORITES N64-15000 06-05

SPUTTERING
CF INSTABILITY
SPUTTERING EFFECTS ON LUNAR SURFACE - METALLIC ENRICHMENT & ALBEDO
NASA-CR-52534 N64-10625 01-32

SPUTTER-ION PUMPS WITH THERMIONIC ELECTRON INJECTION
CPD-74 N64-11788 03-17

FORTRAN PROGRAM FOR CALCULATION OF PI-BEAM TARGET SPUTTERING IN CIRCULAR ACCELERATOR AND DETERMINING MU-BEAM OF IN-FLIGHT SECONDARY DISINTEGRATION
CERN-63-30 N64-12419 04-20

ENERGY DISTRIBUTIONS FOR ATOMS SPUTTERED FROM COPPER & POLYCRYSTALLINE SURFACES UNDER MERCURY & NOBLE GAS BOMBARDMENT
AD-424612 N64-12476 04-23

VELOCITIES OF SPUTTERED ATOMS DETERMINED BY PULSING TARGET AND MEASURING TRANSIT TIME OF ATOMS - POLYCRYSTALLINE & SINGLE CRYSTAL COPPER
N64-12477 04-23

VELOCITIES OF SPUTTERED ATOMS DETERMINED BY PULSING TARGET & MEASURING TRANSIT TIME OF SPUTTERED ATOMS N64-12478 04-23

ENERGY DISTRIBUTIONS FOR ATOMS SPUTTERED FROM COPPER & POLYCRYSTALLINE SURFACES BOMBARDED BY MERCURY & NOBLE GAS IONS N64-12479 04-23

ENERGY DISTRIBUTIONS OF COPPER ATOMS SPUTTERED BY HELIUM, NEON, ARGON, XENON, AND MERCURY
N64-12480 04-23

ENERGY DISTRIBUTIONS OF SPUTTERED ATOMS FOR VARIOUS POLYCRYSTALLINE TARGETS
N64-12481 04-23

SPUTTERING METHOD FOR PREPARATION OF DIELECTRIC FILMS OF TITANIUM OXIDE - CAPACITOR APPLICATION
RADC-TDR-63-491 N64-14630 06-09

LITHIUM-ARGON SPUTTERING
AS-63-7 N64-17802 09-23

SPUTTERING AT OBLIQUE ANGLES OF ION INCIDENCE
NASA-TN-D-2235 N64-18080 10-23

ULTRAHIGH VACUUM SPUTTERED THIN FILMS
AFCRL-64-360 N64-21725 15-25

SPUTTERING EFFECTS ON LUNAR SURFACE
NASA-CR-56292 N64-24023 16-29

PROBE CHARACTERISTICS OF ELECTRON AND ION CURRENTS AND ENERGY DISTRIBUTION OF NICKEL ATOMS DURING CATHODE SPUTTERING OF NICKEL BY MERCURY IONS
FTD-TT-64-380/1&2&4 N64-26995 19-23

ENERGY DISTRIBUTION OF NICKEL ATOMS DURING CATHODE SPUTTERING OF NICKEL BY MERCURY ION
N64-26997 19-23

SPUTTERING OF METEORITES BY POSITIVE HELIUM, NEON, AND ARGON IONS N64-28302 20-23

SPECTRAL ENERGY DISTRIBUTION OF SPUTTERED MERCURY ATOMS EMITTED FROM HOT CATHODES
FTD-TT-64-542/1&2&4 N64-30459 22-23

SURFACE SPUTTERING BY ATOMS, IONS, AND MOLECULES - LABORATORY MEASUREMENTS BY MOLECULAR BEAM, AND IN UPPER ATMOSPHERE FROM INSTRUMENTED SATELLITES
GD/A-DBE-64-048 N64-33841 24-25

SQUELCH CIRCUIT
S BACKGROUND NOISE

SQUIB
CF EXPLOSIVE DEVICE
ENVIRONMENTAL TESTING OF PISTON ACTUATOR, DIMPLE ACTUATOR, AND MATCH TYPE SQUIBS
RT-TR-64-7 N64-29830 21-06

SQUID PROJECT
CHARACTERISTICS OF BORON FLAMES - ROCKET FUEL USE - SQUID PROJECT
RMD-3-P N64-11435 02-26

VISCOSITY OF NEON-HELIUM & NEON-ARGON MIXTURES AND THREE PURE COMPONENTS - SQUID PROJECT
BRN-8-P N64-12931 04-19

COMPOSITION DEPENDENCE OF NONEQUILIBRIUM EFFECTS IN GAS PHASE REACTIONS - SQUID PROJECT
BRN-9-P N64-13097 04-23

INTERACTION OF SOLID PARTICLES WITH IONIZED GAS - SQUID PROJECT
ILL-12-P N64-13242 04-23

MASS SPECTRA AND ION-MOLECULE REACTIONS IN ETHANE, PROPANE, AND BUTANE UNDER HIGH PRESSURE - SQUID PROJECT
HUM-4-P N64-13257 04-07

SQUID PROJECT FLUID MECHANICS, TRANSPORT AND TRANSFER PROCESSES, CHEMICAL KINETICS, AND COMBUSTION PHENOMENA
AD-420576 N64-13476 05-01

FUNDAMENTAL INVESTIGATION OF NONSTEADY AND NONEQUILIBRIUM FLOW - TWO-PHASE FLOW IN SQUID PROJECT N64-13477 05-24

BOUNDARY LAYER TRANSITION AND PLASMA TURBULENCE - SQUID PROJECT N64-13478 05-24

FUNDAMENTAL GAS AND PLASMA DYNAMICS - SQUID PROJECT N64-13479 05-24

THERMODYNAMIC & TRANSPORT PROPERTIES OF GASES AT HIGH TEMPERATURES AND PRESSURES - SQUID PROJECT
N64-13480 05-24

ELECTRIC PHENOMENA PROPERTIES OF TWO-PHASE FLOW - SQUID PROJECT N64-13481 05-24

THERMOCONDUCTIVITY OF GASES & LIQUIDS OVER RANGE OF TEMPERATURES AND PRESSURES - SQUID PROJECT N64-13482 05-24

FLUID FLOW OF SUSPENDED PARTICLES - SQUID PROJECT
N64-13483 05-24

STEADY DETONATION WAVES IN OZONE - CHEMICAL KINETICS IN SQUID PROJECT N64-13484 05-24

KINETICS OF ELEMENTARY REACTIONS OF HYDROGEN AND FLUORINE - SQUID PROJECT N64-13485 05-24

CHEMICAL KINETICS IN HIGH TEMPERATURE GASES - SQUID PROJECT N64-13486 05-24

REACTIONS OF IONS AND ELECTRICALLY EXCITED SPECIES WITH ATOMS AND MOLECULES IN GAS PHASE - SQUID PROJECT N64-13487 05-24

CHEMICAL KINETICS AND GAS DYNAMICS OF ATOM AND FREE-RADICAL REACTIONS - SQUID PROJECT
N64-13488 05-24

SOLID PROPELLANT COMBUSTION MECHANISMS - SQUID PROJECT N64-13490 05-24

MAGNETOHYDRODYNAMICS OF PARTIALLY IONIZED GASES - SQUID PROJECT N64-13491 05-24

ENTHALPY FLUCTUATIONS IN PLASMA JETS - SQUID PROJECT N64-13492 04-24

DILUTE DIFFUSION FLAME OF SPHERICAL SYMMETRY MAINTAINED BY HETEROGENEOUS REACTION - SQUID PROJECT
CAL-89-P N64-13717 05-24

VISCOSITY OF HYDROGEN, DEUTERIUM, METHANE, AND CARBON MONOXIDE - SQUID PROJECT
BRN-10-P N64-15762 07-19

VISCOSITY MEASUREMENTS OF DRY AND HUMID AIR - SQUID PROJECT
TR-BRN-12-P N64-16096 07-11

COMBUSTION OF BERYLLIUM AND ALUMINUM PARTICLES
ARC-8-P N64-17285 09-24

FLUID MECHANICS, TRANSPORT PROPERTIES, CHEMICAL REACTION KINETICS, AND COMBUSTION - SQUID PROJECT
AD-435879 N64-18851 11-24

NONSTEADY AND NONEQUILIBRIUM TWO-PHASE FLOWS - SQUID PROJECT N64-18852 11-11

BOUNDARY LAYERS OF TURBULENT FLOWS AND PLASMA TURBULENCE - SQUID PROJECT N64-18853 11-24

SHOCK WAVE OR SPECIES SEPARATION IN SMALL SUPERSONIC JETS OF GAS MIXTURES - SQUID PROJECT
N64-18854 11-11

GAS AND PLASMA DYNAMICS RELATED TO NUCLEAR FUSION AND MAGNETOHYDRODYNAMIC POWER GENERATION - SQUID PROJECT N64-18855 11-24

THERMODYNAMIC AND TRANSPORT PROPERTIES OF GASES AT HIGH TEMPERATURES AND PRESSURES - SQUID PROJECT
N64-18856 11-24

INTERACTION OF SOLID PARTICLES WITH IONIZED GAS, CHARGE ACQUISITION, AND DYNAMICS OF TWO-PHASE FLOW - SQUID PROJECT N64-18857 11-24

CHEMICAL REACTION YIELDING NONEQUILIBRIUM IONIZATION - SQUID PROJECT N64-18858 11-07

HIGH SPEED CHEMICAL REACTIONS /DETONATIONS/ IN OZONE - SQUID PROJECT N64-18859 11-23

KINETICS OF CHEMICAL REACTIONS IN HIGH TEMPERATURE GAS BY DILUTE DIFFUSION FLAME - SQUID PROJECT
N64-18860 11-24

REACTIONS OF IONS WITH GASEOUS ATOMS AND MOLECULES AND REACTIONS GIVING NONEQUILIBRIUM IONIZATION - SQUID PROJECT N64-18861 11-07

INELASTIC COLLISIONS STUDIED WITH MOLECULAR BEAM - SQUID PROJECT N64-18863 11-23

CHEMICAL REACTION MECHANISMS OF SOLID PROPELLANT

FLAMES - SQUID PROJECT N64-18864 11-26

MAGNETOHYDRODYNAMICS OF PARTIALLY IONIZED GASES - PROPULSION AND POWER GENERATION - SQUID PROJECT N64-18845 11-24

OPTICAL FIBER DETERMINATION OF SOLID PARTICLE VELOCITY IN TWO-PHASE GAS-SOLIDS IN TURBULENT PIPE FLOW - SQUID PROJECT
PR-107-P N64-19635 12-11

FLUID DYNAMIC FORCES OF LIFT & DRAG ON SPHERES SUSPENDED IN POISEUILLE FLOW - SQUID PROJECT
PR-106-P N64-19636 12-11

VISCOSITY OF ISOTOPES OF HYDROGEN AND THEIR INTERMOLECULAR FORCE POTENTIALS - SQUID PROJECT
BRN-11-P N64-25797 17-19

MATHEMATICAL ANALYSIS OF NONSTEADY FLOW - SQUID PROJECT
CAL-88-P N64-25799 17-11

ENERGY AND MOMENTUM EXCHANGE BETWEEN COMPONENTS OF NON-EQUIPARTITION GAS MIXTURE
ARAP-45 N64-32388 23-11

MASS SPECTROMETRIC STUDIES OF IONIC REACTIONS IN GASEOUS ACETYLENE FOR SQUID PROJECT
HUM-8-P N64-32564 23-07

VISCOSITY AND VARIATION OF MODERATELY DENSE GASES FROM MODEL OF TRIPLE COLLISION AND CHAPMAN-ENSKOG THEORY - SQUID PROJECT
BRN-13-P N64-32979 24-11

CHARGING OF CONDUCTING SPHERE IN CONCENTRIC VACUUM BY THERMIONIC EMISSION - SQUID PROJECT
ILL-15-P N64-33946 24-23

CIRCUITS AND CALIBRATION CURVES FOR ACOUSTIC PRESSURE TRANSDUCER - SQUID PROJECT
ILL-16-P N64-33947 24-15

SQUIRREL
LOW TEMPERATURE EFFECT ON ISOLATED HEARTS OF GROUND SQUIRRELS
AAL-TDR-63-4 N64-13630 05-16

EXAMINATION OF GROUND SQUIRREL EXCRETION FOR ANIMAL & BACTERIAL VIRUSES
TN-62-12 N64-13988 05-16

INTUBATION OF ABNORMAL AORTA OF GROUND SQUIRREL
TH-63-2 N64-19557 12-16

STABILIZATION
ATTITUDE STABILIZATION OF MANNED SPACECRAFT BY TWIN GYROS AND PULSE-MODULATED REACTION JETS
NASA-TN-D-1645 N64-30092 21-06

STABILITY
SA AERODYNAMIC STABILITY
SA BOUNDARY LAYER STABILITY
SA COMBUSTION STABILITY
SA DIMENSIONAL STABILITY
SA DIRECTIONAL STABILITY
SA DYNAMIC STABILITY
SA ELASTIC STABILITY
SA FLAME STABILITY
SA FLOW STABILITY
SA GYROSCOPIC STABILITY
SA HOVERING STABILITY
SA HYDRODYNAMIC STABILITY
SA HYDROMAGNETIC STABILITY
SA INTERFACE STABILITY
SA LATERAL STABILITY
SA LONGITUDINAL STABILITY
SA LOW SPEED STABILITY
SA PLASMA STABILITY
SA SHELL STABILITY
SA SPACECRAFT STABILITY
SA STATIC STABILITY
SA STORAGE STABILITY
SA STRUCTURAL STABILITY
SA SURFACE STABILITY
SA THERMOSTABILITY
CF INSTABILITY
STABILITY OF SPACE VEHICLE IN BENDING OSCILLATIONS FOR CONTROL SENSORS
NASA-TN-X-51081 N64-10106 01-30

STABILITY OF SUPERPOSED FLUIDS
AD-422616 N64-11025 02-11

STABILITY CONDITIONS FOR MOVEMENT OF HEAVY VARIABLE MASS BODY IN VERTICAL PLANE WITH RETARDING FORCE OF MEDIUM TANGENT TO TRAJECTORY
FTD-TT-62-1188/1&2 N64-11188 02-23

CRITERION OF OPERATIONAL STABILITY OF LIQUID PROPELLANT ROCKET ENGINE
FTD-TT-63-491/1&2&4 N64-11190 02-27

CELESTIAL MECHANICS - DIFFERENTIAL EQUATIONS DEFINED AS STABLE IN JACOBIAN SENSE WHEN CORRESPONDING VARIATIONAL EQUATIONS ARE STABLE
MH-TRANS-426 N64-11572 03-20

MATHEMATICAL THEORY OF STABILITY OF MOTION OF VARIABLE MASS SYSTEMS
MH-TRANS-428 N64-11573 03-20

STRENGTH & STABILITY OF AXISYMMETRIC, BIMETALLIC, CYLINDRICAL SHELLS
RSIC-12 N64-12299 03-18

HIGHEST DEGREE OF STABILITY AND RIGIDITY OF MOTION OF SLIDING HYPERPLANE N64-12467 04-20

STABILITY OF ELASTIC BAND IN GAS FLOW
N64-12491 04-11

COMPLEX TRANSITION METAL HYDRIDES AND PROBABLE MECHANISM REQUIRED FOR STABILITY
SSD-TDR-63-283 N64-12583 04-19

PERFORMANCE & STABILITY OF ADCAT MISSILE INNER-LOOP CONTROL SYSTEM
RD-TR-63-30 N64-12649 04-06

CONDITIONS FOR MUTUAL IMPLICITY OF STABILITY OF TIME-VARYING LINEAR SYSTEM AND EXPONENTIAL STABILITY OF UNFORCED SYSTEM
RN-169 N64-13235 04-20

GROUND STATE ENERGY & STABILITY OF DEGENERATE ELECTRON GAS
NUP-63-17 N64-14071 05-23

STABILITY OF WHITE SURFACE COATINGS FOR THERMO-REGULATION IN SPACE ENVIRONMENT
NASA-CR-53086 N64-16741 08-19

STABILITY ANALYSIS OF TWO-WAY CONTROLLED CARRIER TRANSMISSION SYSTEMS
AFCRL-63-586 N64-16803 08-08

STABILITY AND MOTION EQUATIONS FOR PARACHUTES
ARC-R&M-3352 N64-16940 09-03

STABILITY OF SPHERICAL PLATE ELEMENTS IN ELASTIC AND PLASTIC RANGES
NASA-CR-53318 N64-17762 09-33

INTERMITTENT CREEP AND STABILITY TEST OF EXPOSURE TO HIGH TEMPERATURE, AND FRACTURE TOUGHNESS
FPR-007/4/ N64-19159 11-18

STABILITY THEOREM FOR FUNCTIONAL-DIFFERENTIAL EQUATIONS N64-22116 15-20

BOILING WATER REACTOR STABILITY TESTS
GEAP-3971 N64-22191 15-23

LINEAR PROBLEM OF LOCAL STABILITY OF CIRCULAR CYLINDRICAL ENVELOPE IN NONUNIFORM FORCES
N64-23471 16-13

STABILITY OF ELECTRIC CIRCUITS WITH ACTIVE UNITS CONTAINING TWO NONLINEAR RESISTANCES
N64-23536 16-09

FREQUENCY STABILITY & PRECISION OF HYDROGEN MASER
NASA-CR-56550 N64-24108 16-25

STABILITY RATING AND LIMITATIONS OF CURRENT TECHNIQUES

WSS/CI PAPER-64-11 N64-24375 17-26

STABILITY BEHAVIOR OF SOLUTIONS OF HAMILTONIAN SYSTEM N64-25106 17-23

STABILITY OF FIVE EQUILIBRIUM SOLUTIONS OF PLANE RESTRICTED THREE BODY PROBLEM
R64SD34 N64-25630 17-23

STABILITY AND PERFORMANCE ANALYSIS OF CERTAIN CLASS OF NONLINEAR TIME-DEPENDENT FEEDBACK CONTROL SYSTEMS
REPT.-2900-348-R N64-25785 17-06

PERTURBATION ANALYSIS OF STABILITY AND RESPONSE OF PLANE FLAME FRONTS N64-26005 18-26

ACCURACY OF DRAG AND STABILITY MEASUREMENTS IN BALLISTICS RANGE
CARDE-TR-485/63 N64-26099 18-04

ANALYZING STABILITY OF LINEAR AUTOMATIC CONTROL SYSTEMS USING LIAPUNOV FUNCTIONS N64-26383 18-09

MOTION STABILITY OF AUTOMATIC CONTROL SYSTEMS WITH VARIABLE STRUCTURE N64-26393 18-09

STABILITY OF DISK SUPPORT OF GYROSCOPE N64-27984 20-23

STABILITY OF SINGULAR POINT ON A PLANE
FTD-MT-63-327 N64-28174 20-20

PROBABILITY OF STABILITY IN STOCHASTIC SYSTEMS N64-28344 20-23

STABLE SHAPE OF LOOSE MEDIUM NEAR RIGID DIE N64-28480 20-33

REVERSIBILITY OF STABILIZED MOTION OF ANNULAR WING AND COAXIAL INFINITE CYLINDER N64-28486 20-03

BAROCLINIC STABILITY PROPERTIES OF TWO-LAYER ATMOSPHERIC MODEL
TN-5 N64-28610 20-21

CLASSICAL STABILITY THEOREM FOR THERMAL EQUILIBRIUM STATE OF ELECTRON GAS IN MAGNETIC FIELD
TR-21 N64-28634 20-24

SUFFICIENT CONDITIONS FOR STABILITY AS TIME APPROACHES INFINITY OF NONLINEAR SYSTEM OF DIFFERENTIAL EQUATIONS
NASA-TN-D-2457 N64-29509 21-09

STABILITY OF TWO-DIMENSIONAL TOUCHDOWN LANDING OF LUNAR VEHICLE N64-29631 21-10

MECHANICAL RELIABILITY AND THERMOELECTRIC STABILITY OF NOBLE METAL THERMOCOUPLES AT VERY HIGH TEMPERATURES & UNDER INTENSE NUCLEAR RADIATION
SEG-TDR-64-7 N64-29651 21-15

COMPONENTS AND STABILITY OF HYDROGEN MASERS
NASA-CR-58542 N64-29697 21-25

STABILITY OF IONIZATION FRONTS ALLOWING FOR ABSORPTION OF IONIZING PHOTONS IN H REGION N64-30082 21-23

STABILITY AND Q-FACTOR OF QUARTZ CRYSTALS EXCITED BY PARALLEL FIELD TECHNIQUE
AD-602722 N64-30189 21-25

GYROSCOPE STABILITY
FTD-TT-64-[illegible] N64-30364 22-15

MOTION AND STABILITY OF SPHERICAL GYROSCOPE SUPPORTED BY GAS BEARING N64-30365 22-15

LINEAR THEORY FOR CALCULATION OF STABILITY OF CIRCULAR CYLINDRICAL CASINGS N64-30419 22-33

STABILITY, PERIODICITY, AND NEAR PERIODICITY OF SOLUTIONS OF NONLINEAR DIFFERENTIAL EQUATIONS IN BANACH SPACES
MRC-496 N64-31965 23-20

STABILITY OF DUST CLOUDS IN VICINITY OF EARTH-MOON TROJAN LIBRATION POINTS BY MOTION ANALYSIS IN PRESENCE OF SUN, MOON, AND EARTH - FOUR-BODY PROBLEM
RM-3992-PR N64-31973 23-05

MOTION CHARACTERISTICS OF STABLE PLATFORM IN SEA WAVES
DTMB-1855 N64-32549 23-10

CONVERGENCE OF GENERALIZED GALERKIN METHOD FOR FLUID STABILITY PROBLEMS N64-33025 24-11

BUCKLING OF SHELLS UNDER DYNAMIC LOADS - STABILITY OF AXIALLY-LOADED THIN CYLINDRICAL SHELLS UNDER DYNAMIC LATERAL PRESSURES
NASA-CR-58949 N64-33280 24-33

STABILITY, FAILURE RATE, ACCELERATION, AND MECHANICAL RUGGEDNESS OF SILICON PLANAR EPITAXIAL TRANSISTOR
AD-607294 N64-33555 24-17

STABILITY OF HARD-CORE PINCH DEVICE WITH ANISOTROPIC PLASMA PRESSURE
NASA-TM-X-55091 N64-33564 24-24

STABILITY AND CONTROL
WING TIP PARACHUTE ON VENOM AIRCRAFT, DIRECTIONAL STABILITY DERIVATIVE AND RUDDER POWER MEASUREMENT
ARC-CP-658 N64-10139 01-03

CRYSTAL GROWTH AND KINETICS OF FORMATION
FLIGHT TEST DATA ON LONGITUDINAL, LATERAL, AND DIRECTIONAL STABILITY AND CONTROL DERIVATIVES OF X-15 AIRCRAFT
JPRS-18257 N64-10638 01-25

DEGREES OF FREEDOM, THEORIES OF STABILITY AND CONTROL, AND EQUATIONS OF MOTION FOR HELICOPTERS N64-10899 02-04

AEROELASTICITY - MOTION EQUATIONS, AERODYNAMIC FORCES, STABILITY AND CONTROL, FLUTTER, AND NOISE EFFECTS N64-13553 05-33

LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF SEMISPAN V/STOL TILT-WING CONFIGURATION WITH SINGLE ROTATING PROPELLER
NASA-TN-D-2180 N64-14729 06-04

DYNAMIC WIND-TUNNEL MODEL FOR STABILITY, CONTROL, AND RESPONSE CHARACTERISTICS & FLIGHT LOAD TESTING OF AIRCRAFT
TECH. LETTER 1310 N64-14830 06-10

LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF BLUNTED CONES AT HYPERSONIC AND SUPERSONIC SPEEDS
NASA-TN-D-2201 N64-15404 07-02

STABILITY AND CONTROL IN TWO-TEMPERATURE NUCLEAR REACTOR
BNL-815/T-315/ N64-15566 07-23

HYPERSONIC STABILITY AND CONTROL UNDER TRIMMED FLIGHT CONDITIONS
R-63-011-104 N64-18706 11-04

MULTILOOP VEHICULAR CONTROL SYSTEM ANALYSIS TECHNIQUE - VEHICLE TRANSFER STABILITY AND CONTROL
ASD-TDR-62-1014 N64-18933 11-06

SPACE VEHICLE CONTROL - STRUCTURAL VIBRATIONS, PROPELLANT SLOSHING, & VEHICLE STABILITY N64-20710 13-30

STABILITY AND CONTROL IN SHIP DESIGN
JPRS-24547 N64-20776 14-11

STABILITY AND CONTROL OF SYSTEM WITH LINEAR REGULATOR N64-24708 17-16

HYPERSONIC STABILITY AND CONTROL OF CIRCULAR AND ELLIPTIC CONES
R-63-011-109 N64-25380 17-23

FREE FLIGHT STUDY OF RADIO-CONTROLLED PARAWING MODEL TO DETERMINE DYNAMIC STABILITY AND CONTROL
NASA-TN-D-2291 N64-25807 17-04

SUPERSONIC LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS OF SWEPT WING-BODY-TAIL MODEL
NASA-TN-D-2376 N64-26610 18-02

STATIC AERODYNAMIC CHARACTERISTICS OF BLUNTED CONES AND ROUNDED CYLINDERS AT SUPERSONIC AND HYPERSONIC SPEEDS
NASA-CR-58666 N64-29212 21-02

AEROELASTIC MODELING TECHNIQUES FOR DETERMINATION OF STRUCTURAL LOADING & STABILITY AND CONTROL CHARACTERISTICS N64-29255 21-33

PHYSICAL PRINCIPLES OF ROCKET FLIGHT - JET PROPULSION, THRUST PRODUCTION, STABILIZATION AND CONTROL, AND GUIDED MISSILE FLIGHT
FTD-TT-63-345/1&2 N64-29275 21-27

STABILITY & CONTROL OF 4-PROPELLER, TILT-WING V/STOL SCALE MODEL TRANSPORT AIRCRAFT
NASA-TN-D-2443 N64-30096 21-04

LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF DELTA WINGS WITH CURVED & STRAIGHT LEADING EDGES FROM MACH 3 TO 6
NASA-TN-D-2486 N64-30100 21-03

WIND TUNNEL TESTS OF WING STALL, PERFORMANCE, AND LONGITUDINAL STABILITY & CONTROL OF LARGE MODEL V/STOL TILT WING TRANSPORT AIRCRAFT
NASA-TN-D-1857 N64-30995 22-04

DYNAMIC LATERAL STABILITY AND CONTROL FOR SUPERSONIC TRANSPORT
NASA-TN-D-2483 N64-31000 22-04

NUMERICAL PROCEDURES FOR STABILITY STUDIES OF LARGE SPACE VEHICLES WITH COMPLEX CONTROL SYSTEMS N64-32643 23-30

MOTION EQUATION ANALYSIS OF LONGITUDINAL RESPONSE OF UNSTABLE AIRCRAFT
CAL-BA-1610-F-1 N64-33109 24-04

WIND TUNNEL TESTING TECHNIQUE FOR SIMULATION OF AEROELASTIC EFFECTS ON STRUCTURAL LOADS - STABILITY AND CONTROL RESPONSE OF FULL SCALE VEHICLES
FDL-TDR-64-49, PT. 1 N64-33909 24-10

AIRCRAFT CONTROL AND STABILITY THEORIES
FTD-TT-64-396/1&2&4 N64-33937 24-04

STABILITY DERIVATIVE
STATIC AERODYNAMIC CHARACTERISTICS, STABILITY DERIVATIVES, & INTERFERENCE FOR DUCTED PROPELLERS
VIDYA-112 N64-25790 17-03

STABILITY TEST
TOUCHDOWN STABILITY TESTS FOR LUNAR LANDING VEHICLES - SYMMETRICAL & ASYMMETRICAL INELASTIC IMPACTS
NASA-RP-350 N64-33891 24-33

STABILIZATION
OF EQUILIBRIUM
DIGITAL SOLAR ASPECT SENSING AND ON-BOARD DATA PROCESSING FOR SPIN STABILIZED SATELLITE ATTITUDE DETERMINATION
NASA-TM-X-50996 N64-10091 01-30

AC STABILIZATION OF MAGNETIC CONFINEMENT OF PLASMA COLUMN IN THETA PINCH APPARATUS
TDR-169/3210-02/TR-1 N64-12060 03-21

STABILIZATION OF SYSTEMS HAVING DRY FRICTION NONLINEARITY BY INTRODUCING NONLINEAR PASSIVE COMPENSATION
AIEE-CP-1061 N64-12942 04-20

APPROXIMATE DETERMINATION OF FORCED OSCILLATIONS IN NONLINEAR GYROSCOPE STABILIZING SYSTEMS N64-13573 05-23

PRINCIPLES, CIRCUITS, AND STABILIZATION OF
VARIABLE-MU MAGNETOMETER
AFCRL-63-939/1/ N64-14770 06-15

FUNCTIONAL CAPABILITY OF NEURONIME NETWORKS FOR USE IN ATTITUDE STABILIZATION SYSTEMS
ASD-TDR-63-549 N64-15083 07-22

ANALYTIC SOLUTION TO EQUATION OF MOTION FOR MISSILES HAVING SIX DEGREES OF FREEDOM N64-15645 07-23

ATTITUDE STABILIZATION OF BEAM RADIATION MAKING USE OF STABILIZED REFLECTOR - ANTENNA
SSD-TDR-63-358 N64-17357 09-30

AUTOMATIC MISSILE STABILIZATION TRAJECTORY CONTROL AT LAUNCHING N64-18484 10-30

FREQUENCY STABILIZATION OF ASTABLE MULTIVIBRATORS AGAINST TEMPERATURE AND POWER SUPPLY VOLTAGE VARIATIONS
TR-1186 N64-19117 11-09

SYSTEMS FOR REMOTE CONTROL STABILIZATION OF FLYING BODIES N64-19229 11-04

SPIN DYNAMICS OF MANNED SPACE STATIONS UNDER EXTERNAL DISTURBANCES & EFFECT OF STABILIZERS
NASA-TR-R-155 N64-19292 11-32

FIRING MECHANISM FOR ACTUATING PARACHUTES TO STABILIZE PILOT EJECTION SEATS AFTER EJECTION
FTD-TT-61-366/1&2 N64-21564 15-04

FLAME STABILIZATION IN BOUNDARY SURFACE LAYER
FTD-TT-62-1821/1&2 N64-22638 15-26

AUTOMATIC CONTROL FOR STABILIZATION OF ARC WELDING PROCESS N64-23092 16-17

INERTIAL COUPLING IN GRAVITY GRADIENT STABILIZED SATELLITES
AIAA PAPER-63-342 N64-23903 16-32

SPIN STABILIZATION AND ION THRUSTOR ENGINES FOR SPACE ELECTRIC ROCKET TEST /SERT/ SPACECRAFT N64-24594 17-32

STABILIZATION OF AUTOMATIC CONTROL SYSTEM WITH VARIABLE STRUCTURE
FTD-TT-63-1110/1&2&4 N64-25456 17-09

ATTITUDE CONTROL SYSTEM FOR SPIN STABILIZED SPACE VEHICLES
NASA-RP-230 N64-25601 17-15

STABILITY AND RESONANCE OF SYMMETRIC MISSILES
CARDE-TN-1599 N64-26047 18-02

HIGH ALTITUDE MAN SEAT STABILIZATION STUDY
CEPE-1681 N64-26348 18-16

STABILIZATION METHOD FOR CONTROL SYSTEM WITH VARIABLE STRUCTURE N64-26391 18-09

RADIATION SPECTRUM FROM VORTEX-STABILIZED ARC FOR SOLAR SIMULATOR
AEDC-TDR-64-165 N64-27443 19-28

OPEN OCEAN TEST OF SEAPLANE STABILIZED WITH VERTICAL FLOATS
GD/C-64-197 N64-27849 19-04

ROLL CONTROL DEVICES EMPLOYED ON FIN-STABILIZED VEHICLES
NASA-TR-R-197 N64-28025 20-03

EXTERNAL GAMMA RADIATION EFFECTS ON RADIATION RESISTANT AND STABILIZATION-INHIBITING ADDITIVES OF POLYVINYL CHLORIDE N64-29120 21-07

GYROSCOPIC COUPLING FOR PLATFORM STABILIZATION N64-30230 22-15

ATTITUDE ERROR ANALYSIS OF SPIN STABILIZED VELOCITY PACKAGE OF ATHENA ROCKET

BSD-TDR-64-69 N64-30708 22-30

EXPLOITATION OF INERTIAL COUPLING IN PASSIVE GRAVITY-GRADIENT-STABILIZED SATELLITES
NASA-RP-339 N64-31216 22-30

CONSTANT LINEAR DYNAMICAL SYSTEMS WITH BANG-BANG CONTROLLER - COMPUTER SIMULATION OF ATTITUDE CONTROL FOR SPINNING SPACE VEHICLE
NASA-TR-R-200 N64-31732 23-09

EVALUATION OF INERTIAL NAVIGATION SYSTEMS CLASSIFIED BY PLATFORM STABILIZATION OR ATTACHMENT
N64-31862 23-22

ION BEAM ENERGY STABILIZATION OF VAN DE GRAAFF GENERATOR N64-33714 24-23

STABILIZER
SA FIN
SA FLAP
CF CONTROL SURFACE
VERTICAL FLOAT STABILIZATION SYSTEM DESIGN, CONSTRUCTION, INSTALLATION, & TESTING FOR SEAPLANE
GD-C-63-200 N64-13122 04-06

REDUCTION OF NEUTRAL POINT MIGRATION EFFECTS BY INTRODUCING GAP BETWEEN FIN AND BODY OF FIN STABILIZED MISSILES
RF-TR-64-6 N64-20456 13-02

MECHANICAL GYROSCOPIC STABILIZER FOR VTOL AIRCRAFT
REPT.-220A90-2 N64-21915 15-04

ISOLATOR AND AMPLITUDE STABILIZER LOGIC CIRCUIT
FTD-TT-62-1500/1&2 N64-23405 16-20

VOLTAGE AND CURRENT MONITOR FOR SCIENTIFIC SATELLITE
NASA-TM-X-51659 N64-23949 16-09

BROADBAND WAVEGUIDE POWER STABILIZER - FREQUENCY BAND ACCURACY N64-31370 23-09

STABILIZATION OF HYPERSENSITIZED PHOTOGRAPHIC EMULSIONS
FTD-TT-63-1006/1&4 N64-31638 23-07

STACKING FAULT
CF FAULT MECHANICS
STACKING FAULT ENERGY AND STRUCTURE DISLOCATION STUDY OF IRON-CHROMIUM-NICKEL ALLOYS AFTER PLASTIC DEFORMATION
UCRL-10890 N64-18984 11-25

STACKING FAULTS IN EPITAXIALLY GROWN SILICON AND EFFECT ON SEMICONDUCTOR RELIABILITY
N64-20995 14-25

STAGE
ABORT TRAJECTORY RANGE AND CAPABILITY OF SATURN S-IV STAGE AND SERVICE MODULE N64-16524 08-29

AUTOMATIC DC TIG WELDING OF SATURN S- IVB FITTINGS TO DOMES
SM-44652 N64-19025 11-17

STATIC ACCEPTANCE TEST FIRINGS OF SATURN FLIGHT STAGES S-1 THROUGH 9
NASA-CR-56837 N64-27283 19-30

SATURN S- IV/S- IVB STAGE AS MANNED SPACE LABORATORY
SM-43257 N64-27767 19-32

SATURN S- IV STAGE EXPLOSION CAUSED BY HYDROGEN FUEL DETONATION
NASA-TN-D-563 N64-30089 21-10

ENGINE AND PUMP INLET DUCT GIMBAL JOINT SYSTEM IN S- IC STAGE OF SATURN V LAUNCH VEHICLE
NASA-TN-D-574 N64-30993 22-17

PRODUCTION OF MINUTEMAN ICBM SECOND STAGE ROCKET ENGINES
REPT.-0162-06QP-1 N64-32302 23-27

INTERCELLULAR FLUID MOBILITY WITHIN HONEYCOMB REINFORCED COMMON BULKHEAD FOR SATURN S- IV LAUNCH VEHICLE - BULKHEAD PURGING
NASA-TM-X-53094 N64-33185 24-11

STAGE SEPARATION
FLEXIBLE LINEAR SHAPED CHARGE SYSTEM FOR SPACE VEHICLE STAGE SEPARATION
SSD-TDR-63-279 N64-12683 04-23

VISUAL OBSERVATION OF SEPARATION PROCESSES WITHIN BOILERS N64-14339 06-07

STAGE SEPARATION & PROPELLANT DISPERSION ORDNANCE SUBSYSTEM
NASA-CR-56647 N64-24016 16-26

ANNOTATED BIBLIOGRAPHY OF STAGE SEPARATION AND EJECTION SYSTEMS OF FLIGHT VEHICLES
SB-64-14 N64-29314 21-04

STAGING
STAGING OF CLOSED PROPORTIONAL FLUID AMPLIFIERS FOR LARGE FLOW GAIN N64-25305 17-11

STAGNATION
WIND TUNNEL TEST SECTION CONDITIONS - DISSOCIATION OF OXYGEN AND STAGNATION LINE OF SPHERE
AEDC-TDR-63-243 N64-11450 03-02

NAVIER-STOKES EQUATIONS FOR SYMMETRIC STAGNATION & WAKE FLOW PAST SEMI-INFINITE PLATES
NWL-1886 N64-13642 05-11

HEAT TRANSFER MEASUREMENTS AT HIGH STAGNATION ENTHALPY AND HIGH REYNOLDS NUMBER
N64-15640 07-13

CHANGES IN STAGNATION CONDITIONS OF CONDENSING FLUID AT SUBSONIC AND SUPERSONIC VELOCITIES
UNC-5047 N64-22285 15-11

STAGNATION-POINT GAS INJECTION COOLING ON HEMISPHERE-CONE IN HYPERSONIC ARC TUNNEL
NASA-TM-X-983 N64-25789 17-13

EFFECT OF AMBIENT DISSOCIATION OF FROZEN HYPERSONIC STAGNATION FLOW
AEDC-TDR-64-142 N64-25795 17-11

LANGMUIR PROBE CHARACTERISTICS FROM ELECTROCHEMICAL REACTIONS OF IONIZED GAS & BLUNT BODY STAGNATION FLOW
BSD-TDR-64-103 N64-27491 19-11

VORTICITY AMPLIFICATION IN STAGNATION POINT FLOW AND EFFECT ON HEAT TRANSFER
ARL-64-91 N64-30816 22-13

STAGNATION POINT
SHOCK-WAVE SHAPES AND STAGNATION-POINT LOCATIONS FOR SPHERICALLY BLUNTED BODIES AT LARGE ANGLES OF ATTACK
NASA-TN-D-1980 N64-11897 03-02

STAGNATION POINT HEAT TRANSFER IN A RELAXING GAS
TDR-269/4305/-1 N64-12061 03-13

HEAT TRANSFER AT STAGNATION POINT OF CYLINDER IN IONIZED MONATOMIC GASES & EFFECT OF FREE ELECTRONS ON THERMOCONDUCTIVITY
AFOSR-5442 N64-15950 07-24

GAS FLOW NEAR STAGNATION POINT OF BLUNT BODY WITH FINITE RATE OF EXCITATION OF VIBRATIONAL DEGREES OF FREEDOM
FTD-TT-62-1313/1&2&4 N64-16477 08-02

ESTIMATION OF SURFACE TEMPERATURES AT STAGNATION POINT OF SPHERICAL SHELLS
CARDE-TN-1607/64 N64-18637 11-13

MEASUREMENTS OF FLUCTUATING STATIC AND STAGNATION POINT PRESSURES IN SUBSONIC TURBULENT WAKES
DTMB-1779 N64-19203 11-15

STAGNATION POINT HEAT TRANSFER IN HIGH ENTHALPY GAS FLOWS
FDL-TDR-64-41, PT. 1 N64-22571 15-13

STAGNATION POINT EQUILIBRIUM RADIATIVE HEAT

TRANSFER IN HIGH ENTHALPY GAS FLOWS
FDL-TDR-64-41 PT. II N64-22691 15-13

EFFECT OF CATALYTIC SURFACES ON STAGNATION POINT HEAT TRANSFER IN PARTIALLY DISSOCIATED FLOWS
N64-26159 18-13

APPLICATION OF LAMINAR BOUNDARY LAYER SIMILAR SOLUTIONS TO STAGNATION POINT AND LAMINAR BOUNDARY LAYER HEAT TRANSFER
REPT.-6721-7506-KU-000 N64-27687 19-02

CHARTS OF EQUILIBRIUM REAL-GAS STAGNATION POINT CONDITIONS ON SPHERE FOR HIGH ALTITUDES AND HYPERSONIC SPEEDS
NOLTR-64-41 N64-32537 23-13

STAGNATION PRESSURE
PITOT-STATIC PROBE FOR MEASURING STAGNATION PRESSURE AND UNDISTURBED STATIC PRESSURE ON SUBSONIC AND SUPERSONIC AIRCRAFT
RAE-TRANS-1032 N64-16318 08-11

STAGNATION REGION
MEASUREMENTS OF HYPERVELOCITY STAGNATION POINT HEAT TRANSFER IN SIMULATED VENUSIAN ATMOSPHERE
NASA-CR-52201 N64-10102 01-13

SOLUTIONS FOR NONADIABATIC SHOCK LAYER IN BLUFF BODY STAGNATION REGION AT HYPERSONIC SPEEDS
NASA-TR-R-159 N64-11560 03-13

HEAT TRANSFER TO SURFACE RECESSED WITHIN FORWARD STAGNATION REGION SLIT UNDER SUBSONIC ARC JET CONDITIONS
NASA-TN-D-2034 N64-11899 03-13

RADIATION MEASUREMENTS IN STAGNATION REGION AND WAKE OF HYPERVELOCITY PROJECTILES - TRANSMISSION AND REFLECTION COEFFICIENTS OF PLASMA SLABS
TR-63-202 N64-21159 14-02

HYPERSONIC & SUPERSONIC FLOWS, BOUNDARY LAYERS, STAGNATION REGIONS, PLASMA ACCELERATION, AND SHOCK TUNNEL EQUATION
FTD-TT-63-79/162 N64-23676 16-01

STAGNATION REGIONS WITH REVERSED FLOW - CONE ANGLE
N64-23680 16-11

GENERAL SOLUTION OF COMPRESSIBLE LAMINAR BOUNDARY LAYER IN STAGNATION REGION OF BLUNT BODIES IN AXISYMMETRIC FLOW
NASA-TN-D-2234 N64-28057 20-11

SOLUTIONS OF VISCOUS SHOCK LAYER EQUATIONS WITH MASS ADDITION IN STAGNATION REGION AT HYPERVELOCITY
NASA-TR-R-207 N64-28341 20-11

NONEQUILIBRIUM RADIATION FROM STAGNATION REGION OF HYPERVELOCITY PROJECTILES IN FREE FLIGHT
TR-64-026 N64-31115 22-11

STAGNATION TEMPERATURE
HYPERSONIC WIND TUNNEL STAGNATION CHAMBER TEMPERATURE STUDIES
SC-4976/RR/ N64-17596 09-10

COMPUTATION OF TEST SECTION, AFTER SHOCK, AND STAGNATION CONDITIONS IN HOTSHOT TUNNELS USING NITROGEN AT STAGNATION TEMPERATURES
AEDC-TDR-64-50 N64-21714 15-13

STAINING
BIOLOGICAL CELL SUBSTANCE CHANGES FROM INJURY AND EXCITATION - STAINABILITY
JPRS-21894 N64-10517 01-16

COLOR IDENTIFICATION OF TRANSPARENT CRYSTALLINE PARTICLES WITH OPTICAL MICROSCOPE
ERDA-165 N64-26205 18-07

STAINLESS STEEL
METEOROID HAZARD TO THIN STAINLESS STEEL SKIN - EXPLORER XIII SATELLITE PENETRATION RATE DATA
NASA-TN-D-1986 N64-10182 01-29

MECHANICAL PROPERTIES OF THREE HOT-WORKED STEELS AND ONE STAINLESS STEEL - TENSILITY, COMPRESSION, SHEET SINGLE SHEAR, BEARING, & BEND TESTS
ASD-TDR-63-116 N64-10545 01-18

ELECTROSLAG REMELTING OF HEAT-RESISTANT STAINLESS STEELS N64-10849 02-18

COMPACTION AND SINTERING OF PLUTONIUM OXIDE STAINLESS STEEL PELLETS
LAMS-2898 N64-11205 02-17

ELECTROSLAG REMELTING OF HEAT-RESISTANT STAINLESS STEEL FOR MACROSTRUCTURE IMPROVEMENT, REDUCTION OF CONTAMINATION, AND REJECT RATE REDUCTION
JPRS-22149 N64-11360 02-18

PRODUCTION OF THICK WALLED, LARGE DIAMETER PIPES FROM CHROMIUM-NICKEL-TITANIUM STAINLESS STEEL
JPRS-22444 N64-12011 03-17

STAINLESS STEEL, STEEL ALLOYS, & SUPERALLOYS FOR AIRCRAFT & MISSILES
DMIC-MEMO-177 N64-12046 03-18

RESIDUAL STATIC STRENGTH OF TITANIUM & STAINLESS STEEL ALLOYS AND ONE SUPERALLOY AT VARIOUS TEMPERATURES
NASA-TN-D-2045 N64-12104 03-18

HIGH STRENGTH AND FRACTURE TOUGHNESS IN STEELS DEVELOPED THROUGH STRAIN-INDUCED TRANSFORMATIONS
WAL-TR-323.4/2-1 N64-12363 03-18

ALLOYING ELEMENT EFFECT ON PITTING CORROSION IN STAINLESS CHROMIUM-NICKEL STEEL, AND RECORDER FOR POTENTIAL DIFFERENCE AT SURFACE OF ALLOY
JPRS-22291 N64-12439 04-01

ALLOYING ELEMENT INFLUENCE ON RESISTANCE OF AUSTENITE-CHROMIUM-NICKEL STAINLESS STEEL TO CORROSION AND SITE OF PITTING N64-12440 04-18

IRRADIATION OF TANDEM-EXTRUDED JOINTS BETWEEN ZIRCALOY AND STAINLESS STEEL
DP-859 N64-12721 04-18

ULTRASONIC WELDING OF BERYLLIUM FOIL TO STAINLESS STEEL
NASA-TM-X-935 N64-12956 04-17

TOOL, MARAGING, AND STAINLESS STEELS FABRICATED INTO BIAXIAL PRESSURE VESSELS
AD-402636 N64-13074 04-17

CHEMICAL MILLING OF PRECISION SLOTS IN STAINLESS STEEL AND ALUMINUM
A239 N64-13249 04-17

HIGH STRENGTH AND FRACTURE TOUGHNESS IN STEEL THROUGH STRAIN-INDUCED TRANSFORMATION
WAL TR-323.4/2-31 N64-13868 05-18

ATOMIZATION OF STAINLESS STEEL AND TANTALUM BY IONS OF DEUTERIUM AND KRYPTON
FTD-MT-63-6/1626364 N64-14373 06-23

EDDY CURRENT AND ULTRASONIC TESTING OF ZIRCALOY-2, ZIRCONIUM ROD STOCK, AND STAINLESS STEEL
ANL-6632 N64-14389 06-18

STAINLESS STEEL SHELL-URANIUM CORE REACTOR ROD EXAMINATION AFTER IRRADIATION TO HIGH BURNUP LEVEL
ANL-6103 N64-14419 06-23

EFFECT OF EXPOSURE TO WEATHERING UNDER SEASHORE CONDITIONS ON STRENGTH AND SERVICE LIFE OF BRAZED STAINLESS STEEL HONEYCOMB SANDWICH PANELS
FGT-2948 N64-15574 07-34

ROCKET MOTOR CASE MATERIALS EVALUATION INCLUDING RESULTS FOR TITANIUM, STAINLESS STEEL, & TEXTURED TITANIUM N64-15849 07-33

FATIGUE TEST ON UNNOTCHED SPECIMENS OF ALUMINUM ALLOY AND STAINLESS STEEL
MS-108 N64-16200 08-18

PERFORMANCE OF URANIUM DIOXIDE AND STAINLESS STEEL

CLAD FUEL AT HIGH POWER DENSITY CONDITIONS AND REDUCTIONS IN FUEL FABRICATION COSTS
GEAP-4294 N64-16250 08-23

METAL FORMING, MACHINING, & FINISHING COMPONENTS FABICATED FROM HEAT RESISTANT ALLOYS, STAINLESS STEEL, & TITANIUM ALLOYS
FTD-TT-63-344/1&2 N64-17076 09-17

MACHINING STAINLESS STEELS & HEAT RESISTANT ALLOYS N64-17102 09-17

MILLING, TURNING, & REAMING STAINLESS STEELS IN METAL FINISHING N64-17104 09-17

ELECTROCHEMICAL DEBURRING OF MOLYBDENUM, ALUMINUM, AND STAINLESS STEEL
A478 N64-17136 09-17

CERAMIC COATINGS ON 321 STAINLESS STEEL
A489 N64-17147 09-19

THERMAL STRESS, AND DESIGN ANALYSIS OF S-1C HEAT SHIELD PANELS USING BRAZED STAINLESS STEEL HONEYCOMB SANDWICH CONSTRUCTION
NASA-CR-53315 N64-17765 09-13

CYCLING FATIGUE BEHAVIOR OF STAINLESS STEEL AND TITANIUM ALLOY FOR SUPERSONIC TRANSPORT
NASA-CR-28 N64-18726 11-18

SIMULATION OF METEORIC ENTRY INTO EARTH ATMOSPHERE USING STAINLESS STEEL PELLETS
NASA-TN-D-2268 N64-19060 11-30

EFFECTS OF SUBSTITUTING COBALT FOR NICKEL ON TENSILE PROPERTIES AND HARDNESS OF AUSTENITIC STAINLESS STEEL
BM-RI-6427 N64-19239 11-18

GASEOUS BODY IRRADIATOR AND STAINLESS STEEL CORROSION - COMPLETE BIBLIOGRAPHIES
JPRS-24350 N64-19447 12-01

LOW CHROMIUM AREAS AS CAUSE OF STAINLESS STEEL CRYSTAL CORROSION N64-19449 12-18

ELECTROCHEMICAL CORROSION MECHANISMS AND CORROSION RESISTANCE IN STAINLESS STEEL
FTD-TT-64-20/1&2 N64-19767 12-18

FUEL RODS CLAD WITH STAINLESS-STEEL-LINED ZIRCALOY-2
GEAP-4555 N64-20520 13-23

EXPLOSIVE REMOVAL OF STAINLESS STEEL SKIN STRUCTURES ON EAGLE MISSILE
ADR-07-13-63.1 N64-20617 13-01

FATIGUE TESTS OF STAINLESS STEEL AND TITANIUM-ALUMINUM ALLOY SHEETS AT VARIOUS TEMPERATURES
NASA-CR-23 N64-21251 14-18

MECHANICAL PROPERTIES OF AISI TYPE 347 STAINLESS STEEL AND REACTOR PRESSURE TUBES SUBJECTED TO FAST NEUTRON IRRADIATION
BMI-1657 N64-22102 15-18

METALLOGRAPHIC EXAMINATION OF EFFECTS OF MOLYBDENUM DISULFIDE COATED ON STAINLESS STEEL UNDER HIGH TEMPERATURE CONDITIONS
A755 N64-22597 15-17

LOW MELT BRAZE ALLOYS FOR JOINING THIN STAINLESS STEEL STRIPS
L-TDR-64-25 N64-22683 15-18

AXIAL LOAD FATIGUE PROPERTIES OF STAINLESS STEEL
NASA-TN-D-2358 N64-25052 17-18

EFFECTS OF TREATMENT METHODS ON SPECTRAL NORMAL & TOTAL NORMAL EMISSION OF INCONELS AND STAINLESS STEEL
NASA-TN-D-2300 N64-25911 18-18

DISSOLUTION OF ZIRCONIUM ALLOY FUELS IN STAINLESS STEEL VESSELS
DP-872 N64-26843 18-18

ENVIRONMENTAL TESTING OF VIBRATION DAMPING PROPERTIES OF PLASTICIZED, GRAPHITE FILLED VINYL CHLORIDE & ACETATE COPOLYMER COATED STAINLESS STEEL
REPT.-94-43 N64-27186 19-19

EXPLORER XVI SATELLITE - METEOROID HAZARD TO THIN STAINLESS STEEL SKIN MATERIAL
NASA-TN-D-2445 N64-27204 19-32

METALLURGICAL EXAMINATION OF INTERMETALLIC DIFFUSION BETWEEN ZIRCONIUM-NIOBIUM ALLOY AND TYPE 316 STAINLESS STEEL
CNLM-5232 N64-27419 19-18

EFFECT OF SIMULATED IN-REACTOR ANNEALING ON MECHANICAL PROPERTIES OF IRRADIATED STAINLESS STEEL PRESSURE TUBE
BMI-1683 N64-27969 20-18

INDICATIONS OF LEVEL, WETTING, & BUBBLES IN LIQUID SODIUM IN STAINLESS STEEL CONTAINER
EUR-1823.D N64-28136 20-13

CLEANING OF FLEXIBLE STAINLESS STEEL BOOSTER VEHICLE FUEL AND OXYGEN LINES
NASA-CR-58585 N64-29000 20-17

EFFECTS OF EXPOSURE TO AIR ON DUCTILITY AND PLASTICITY OF STAINLESS STEEL N64-29039 21-18

CORROSION RESISTANCE AND MECHANICAL PROPERTIES OF STAINLESS STEEL N64-29046 21-18

BONDING MECHANISM BETWEEN PLASMA-SPRAYED TUNGSTEN AND STAINLESS STEEL SUBSTRATE
NASA-TN-D-2461 N64-29336 21-18

THERMAL FATIGUE TESTS ON STAINLESS STEELS AND ON COPPER CLAD WITH STAINLESS STEEL FOR USE AS CONSTRUCTION MATERIALS IN URANIUM DENITRATING VESSELS
DP-901 N64-29542 21-13

CORROSION OF STAINLESS STEEL BY SIMULATED WATER MODERATED REACTOR FUEL - DEPLETED URANIUM OXIDE IN NITRIC OR PHOSPHORIC ACID
LA-3101 N64-29772 21-18

TRANSMISSION ELECTRON MICROSCOPIC OBSERVATIONS OF FATIGUE INDUCED DEFORMATION FAULTING IN THIN FOIL STAINLESS STEEL
AFOSR-64-1004 N64-29999 21-18

ELECTROCHEMICAL CORROSION BEHAVIOR OF STAINLESS STEEL AND NICKEL IN SULFURIC ACID SOLUTIONS SUBJECTED TO GAMMA RADIATION
FTD-MT-63-126 N64-30157 21-07

APPARATUS FOR BIAXIAL CREEP MEASUREMENTS ON STAINLESS STEEL CAPSULE FILLED WITH LITHIUM
SY-5472-R N64-30767 22-15

AXIAL LOAD FATIGUE-CRACK PROPAGATION IN TITANIUM AND STAINLESS STEEL ALLOYS
NASA-TN-D-2331 N64-31568 23-18

INTERNAL HEAT EXCHANGE IN POROUS STAINLESS STEEL DURING AIR COOLING
FTD-MT-63-210 N64-32044 23-13

MECHANICAL PROPERTIES OF CRYOGENIC-STRETCH-FORMED STAINLESS STEELS AT CRYOGENIC TEMPERATURES - HIGH STRENGTH PRESSURE VESSEL MATERIALS
NASA-TN-D-2202 N64-32403 23-18

STAINLESS STEEL - COMPOSITION, PROPERTIES, STRUCTURE, AND RESISTANCE TO CORROSION, OXIDATION, AND RADIATION
DP-860, VOL. 1 N64-33060 24-18

HEAT TRANSFER TESTS ON SHOCK WAVE GENERATORS & THERMOCOUPLE AND STAINLESS STEEL FINS IN HYPERSONIC WIND TUNNEL
NASA-CR-58836 N64-33219 24-13

STRESS CORROSION CRACKING OF STAINLESS STEEL EXPOSED IN DILUTE CHLORIDE SOLUTIONS
DP-907 N64-33241 24-18

CORROSION OF METALS IN MERCURY VAPOR AT HIGH TEMPERATURES - STAINLESS STEELS, MARTENSITIC CHROMIUM STEELS, COBALT & NICKEL ALLOYS AND REFRACTORY METALS
NASA-TM-X-54787 N64-33681 24-18

DIFFUSION BONDING OF STAINLESS STEEL WIRE MESH REINFORCEMENT TO BERYLLIUM TUBE FOR HYPERVELOCITY IMPACT TARGET
NASA-CR-54222 N64-34010 24-17

STALL
STALL CHARACTERISTICS OF SWEPT WING CONFIGURATIONS
NASA-TN-D-2373 N64-24822 17-03

STANDARD
CF METROLOGY
REVIEW AND ANALYSIS OF TELEMETRY LINK DATA BY TYPE AND OCCURRENCE OF DEVIATIONS FROM STANDARDS
ESD-TDR-64-131 N64-31890 23-08

STANDARDS LABORATORY CONFERENCE - CALIBRATION AND MEASUREMENT
NBS-MISC-PUBL-248 N64-32528 23-10

COMPARATOR FOR DETERMINING METRIC STANDARDS
N64-32790 24-23

RECOMMENDATIONS OF EQUIPMENT AND MAINTENANCE STANDARDS FOR USE IN PRESSURE-MEASURING ALTIMETERS
RD-64-119 N64-32803 24-15

WAVELENGTH STANDARDS FOR HIGHLY IONIZED SPECTRA OF NITROGEN AND OXYGEN
NASA-CR-59379 N64-33923 24-23

STANDARD LAUNCH VEHICLE-1B /SLV-1B/
PAYLOAD PLANNING AND DESIGN FOR STANDARD LAUNCH VEHICLE-1B
AFSWC-TDR-64-1 N64-17662 09-31

STANDARDIZATION
CF CALIBRATION
SHORT-CIRCUITED-RING ELECTRODYNAMIC AMMETER FOR ESTABLISHING ACCURATE ABSOLUTE STANDARD OF CURRENT AT HIGH FREQUENCIES N64-10463 01-09

STANDARDIZATION OF ANALYTICAL FUNCTIONS FOR APPLICATION TO PROBLEMS OF CONTINUUM MECHANICS
ONERA-TP-55/1963/ N64-11251 02-23

INTERNATIONAL SYSTEM OF BASIC MEASURING UNITS - NOMENCLATURE, ABBREVIATIONS, AND DERIVED UNITS
NASA-TT-F-200 N64-14733 06-23

STANDARDIZATION OF CONSTANTS AND EPHEMERIS DATA FOR TRAJECTORY AND ORBIT CALCULATIONS
NASA-CR-53921 N64-19897 12-29

CALIBRATION & STANDARDIZATION PROCEDURES
NBS-MISC.-PUBL.-250 N64-21348 14-15

PHYSICS, ELECTRONICS, & MEASUREMENT STANDARDS, CHEMISTRY & PROPERTIES OF MATERIALS, APPLIED MATHEMATICS, RADIO PROPAGATION, AND OTHER RESEARCH
NBS-MISC.-PUBL.-255 N64-21512 15-23

STANDARDIZATION OF INFRARED OPTICAL MEASUREMENTS
NBS-8302 N64-21670 15-23

ENGINEERING TEST AND STANDARDIZATION OF TELEPHONE TELEGRAPH CARRIER
AD-431668 N64-21841 15-09

STANDARDIZATION OF ULTRAHIGH FREQUENCY FLIGHT TERMINATION RECEIVERS
IRNFSG-303-64 N64-22131 15-22

RADAR REFLECTIVITY MEASUREMENT DATA FORMAT STANDARDS N64-24716 17-08

RADAR MEASUREMENT STANDARDIZATIONS NEEDED FOR SIMULATION STUDIES N64-24717 17-08

STANDARD TESTS FOR LAMINAR FLOW DEVICES
SC-TM-64-637 N64-25291 17-11

RADIATION PROTECTION STANDARDS TO REDUCE HAZARD OF RADIOACTIVE CONTAMINATION OF FOOD
REPT.-5 N64-26757 18-16

DEVELOPMENT OF IMPULSE GENERATOR STANDARDS FOR SPECTRAL INTENSITY MEASUREMENTS
N64-27660 19-08

STANDARDIZED TERMS FOR DESIGNATIONS OF SPACE VEHICLES
CNES-NT-1 N64-29892 21-29

STANDING WAVE
RADIATION HARDENING PROCESS FOR STANDING WAVE IMPEDANCE PROBE
AFCRL-63-753 N64-15728 07-23

IMPEDANCE MEASUREMENT BASED ON THREE POSITION SAMPLING OF TRANSMISSION LINE STANDING WAVE
USRL-74 N64-27745 19-08

STANDING WAVE RATIO
COAXIAL DOUBLE-SLOTTED MEASURING LINE FOR VOLTAGE STANDING WAVE RATIO MEASUREMENT - COMMUNICATION SYSTEM
FTD-TT-64-6/1 N64-22666 15-08

STANNIDE
INFRARED TRANSMISSION AND REFLECTION MEASUREMENTS OF SEMICONDUCTING MAGNESIUM STANNIDE SINGLE CRYSTALS OF VARYING IMPURITY CONCENTRATIONS
AFCRL-63-534 N64-16091 07-25

STAR
SA GALAXY
SA STELLAR ATMOSPHERE
SA STELLAR EVOLUTION
SA STELLAR LUMINOSITY
COMPARATIVE SPECTROSCOPIC STUDY OF WOLF-RAYET STARS N64-10020 01-05

POLARIMETRIC AND COLORIMETRIC STAR, COMET, AND GALAXY OBSERVATIONS OF THE BYURAKAN OBSERVATORY
N64-10026 01-05

FLUX DENSITY VARIATION OF THE RADIO SOUCE CASSIOPEIA-A N64-10029 01-05

POLARIMETRIC OBSERVATION OF THE STAR BETA CORONA BOREALIS N64-10032 01-05

OBSERVATIONS OF MINOR PLANETS, COMETS, ECLIPSING BINARY STARS, AND DOUBLE STARS - ORBIT MEASUREMENT
N64-10321 01-05

ULTRAVIOLET AURORA WITH NORTH-SOUTH ASYMMETRY AND STELLAR SPECTRA TAKEN FROM AEROBEE ROCKET FLIGHT
NASA-RP-71 N64-10469 01-05

THEORY OF MICHELSON STELLAR INTERFEROMETER
JPRS-18083 N64-10496 01-15

SOVIET CATALOGING OF FAINT STARS IN SOUTHERN HEMISPHERE
JPRS-19252 N64-10653 01-05

BETA LYRAE - THEORY OF PHOTOMETRIC AND SPECTROGRAPHIC BEHAVIOR WITH MODEL
NASA-RP-78 N64-10668 01-16

MODES OF MASS EJECTION BY BINARY STARS & EFFECT ON THEIR ORBITAL PERIODS
NASA-RP-77 N64-11114 02-05

RADIO OBSERVATIONS OF HYDROXYL ABSORPTION SPECTRUM FROM CASSIOPEIA A
NASA-CR-52852 N64-11379 02-28

EFFECT OF SURFACE LAYER OF STAR UPON BLACK BODY RADIATION FROM INTERIOR
AFCRL-63-419 N64-12285 03-05

PHOTOELECTRIC METHOD STUDYING INSTABILITY OF STELLAR IMAGES N64-13684 05-23

POSSIBLE CLASS OF GALACTIC RADIO SOURCES - ROTATIONAL INSTABILITY OF LOW MASS STARS
NASA-CR-55340 N64-14179 06-05

ELECTRON CAPTURE RATES IN STELLAR INTERIORS
NASA-CR-55319 N64-14278 06-23

BIBLIOGRAPHY - STAR PATTERN RECOGNITION
SID-63-710 N64-14424 06-05

RADIO OBSERVATION OF HYDROXYL RADICAL IN ABSORPTION SPECTRUM OF CASSIOPEIA A
N64-15157 07-05

DISTRIBUTION, MAGNITUDE, AND MOTION OF STARS
N64-15290 07-05

USE OF STARS FOR ESTIMATING LIGHT ATTENUATION IN ATMOSPHERE
N64-15460 07-23

GRAVITATIONAL WAVES IN STARS
NASA-CR-55493 N64-15552 07-23

STELLAR BACKGROUND RADIATION SPECTRUM
AD-427187 N64-15759 07-28

OBSERVATIONS OF STAR DECLINATIONS AND LATITUDE CHANGES USING LARGE ZENITH TELESCOPE
N64-16209 08-05

HYDRODYNAMICS OF STELLAR CORONAS AND WINDS - INTEGRATION OF MOMENTUM EQUATION
N64-16773 08-28

STELLAR ASTRONOMY - STAR DISTRIBUTION, EVOLUTION, KINEMATICS, AND DYNAMICS
JPRS-23821 N64-17350 09-05

STELLAR-INERTIAL NAVIGATION SYSTEMS FOR CRUISE VEHICLES
PUBL.-552-A-26 N64-17999 10-22

MAGNETOHYDRODYNAMICS STUDY TO RELATE GALACTIC MAGNETIC FIELD, GALACTIC RADIATION, AND GALACTIC STRUCTURE
NASA-CR-53468 N64-18169 10-05

CATALOG OF PHOTOGRAPHIC, PHOTOVISUAL, AND PHOTORED MAGNITUDES OF STARS IN AQUILA, HERCULES, AND CYGNUS CONSTELLATIONS
AID-T-63-51 N64-18281 10-05

ACCELERATION OF STARS IN INTERACTION WITH IMMOBILE DUST CLOUDS N64-19336 12-05

COSMOLOGY - STELLAR EVOLUTION, GROUPS OF MAIN SEQUENCE STARS, ECCENTRICITY OF ELLIPTICAL ORBITS, AND INTERSTELLAR MATERIAL
JPRS-24260 N64-19342 12-05

SEPARATION OF MAIN SEQUENCE STARS INTO TWO GROUPS BY KINEMATIC CHARACTERISTICS N64-19345 12-05

EFFECT OF STELLAR ENCOUNTERS ON CORRELATION OF ECCENTRICITY AND SEMIMAJOR AXIS OF ELLIPTICAL ORBIT OF WIDE DOUBLE STAR SYSTEMS
N64-19346 12-05

COSMOLOGY - PLANETARY ORIGINS, STELLAR EVOLUTION, VARIABLE STARS, MAIN SEQUENCE STARS, SOLAR CORONA SPECTRA, AND ELEMENT FORMATION
JPRS-24358 N64-19451 12-05

MASS-RADIUS AND MASS-LUMINOSITY RELATIONS OF STARS IN MAIN SEQUENCE OF SPECTRUM-LUMINOSITY DIAGRAM
N64-19458 12-05

PLASMA PHYSICS, RADIATIVE AND CONVECTIVE HEAT TRANSFER IN PLANETARY ATMOSPHERES, STELLAR STRUCTURE, AND GALACTIC DYNAMICS
NASA-CR-53869 N64-19954 12-05

STAR POSITION CATALOG PREPARATION AND REVISION OF ASTRONOMIC LATITUDES, LONGITUDES, AND AZIMUTHS FOR TRIANGULATION
JPRS-24729 N64-20819 14-05

ADVANCES AND PROBLEMS OF COSMOGONY - FORMATION AND INTERNAL STRUCTURE OF STARS, ATMOSPHERE OF MOON, AND PROCESSES IN EARTH N64-21127 14-05

INFRARED RADIATION FROM STARS IN NIGHT SKY
AD-404717 N64-21158 14-05

EFFECT OF STELLAR ENCOUNTER ON PLANETARY MOTION
NASA-CR-56232 N64-22472 15-05

STELLAR CLOUD AND MASS SCATTERING PROPERTIES
N64-23183 16-29

MACHINE REDUCTION, COMPUTATION, AND ANALYSIS OF LIGHT CURVES OF ECLIPSING BINARY STAR SYSTEMS
R64SD8 N64-23363 16-20

TWINKLING OF STARS AND DETERMINATION OF ATMOSPHERIC INDEX OF REFRACTION
N64-23461 16-12

STARS, STELLAR EVOLUTION, AND LUMINOSITY
N64-24497 17-05

STELLAR EVOLUTION & STRUCTURE N64-24662 17-05

DIMENSIONS OF CLASS B STAR ENVELOPES
N64-24778 17-29

EVOLUTION OF MAIN SEQUENCE STARS - SPECTRUM-LUMINOSITY DIAGRAMS N64-24779 17-29

EVOLUTION OF DOUBLE STARS FROM SINGLE STARS
N64-24781 17-29

NONADIABATIC OSCILLATIONS OF STARS
N64-24782 17-29

COLLAPSE OF STAR - NUMERICAL INTEGRATION OF EINSTEIN EQUATIONS FOR CASE OF COLD FERMI GAS
NASA-TT-F-8689 N64-24902 17-05

HIGH RESOLUTION MICROWAVE SPECTRA OF HYDROGEN AND HYDROXYL ABSORPTION LINES OF CASSIOPEIA A
N64-26301 18-05

EQUATIONS OF STATE FOR BARYON STAR MODELS
NASA-TM-X-51815 N64-26366 18-23

EVOLUTION OF H II REGION AROUND EARLY STARS, FORMATION OF PERIPHERAL STRUCTURE IN DIFFUSE NEBULA, AND HYDRODYNAMIC STABILITY
STL-TRANS-79 N64-26450 18-05

H-ALPHA LINE EMISSION STARS NEAR RHO OPHIUCHI
N64-26568 18-05

H-ALPHA EMISSION STARS NEAR DARK NEBULOSITY IN OPHIUCHUS N64-26569 18-05

SURFACE X-RAY EMISSION FROM NEUTRON STARS
NASA-RP-276 N64-27354 19-05

PHYSICS OF DENSE MEDIA, RADIATIVE TRANSFER, AND STELLAR ASSOCIATIONS
AFCRL-64-572 N64-27447 19-05

COPLANARITY OF ORBITS OF MULTIPLE STARS
N64-28380 20-29

BILATERAL INTERACTION OF STARS WITH DIFFUSE MATTER AND SIGNIFICANCE IN COSMOGONIC PROCESS
N64-28382 20-29

CORRELATION OF STELLAR MASS AND LUMINOSITY
N64-28384 20-05

SPATIAL VELOCITIES OF STARS FOR STUDY OF KINETICS AND DYNAMICS OF GALAXY N64-28385 20-05

SPECTROSCOPIC OBSERVATION OF SYMBIOTIC STARS
NASA-RP-268 N64-28413 20-05

STELLAR SPECTRA OF O AND B STARS
AD-600878 N64-28710 20-05

HIGH DENSITY BEHAVIOR & DYNAMIC STABILITY OF NEUTRON STAR MODELS N64-29387 21-05

APPARATUS FOR NARROW PASS BAND PHOTOELECTRIC SPECTROMETRY OF STARS OF FIRST SPECTRAL TYPE
NASA-TT-F-8942 N64-30836 22-05

THEORY OF STAR ESCAPE DURING COLLISION OF GALAXIES
NASA-RP-325 N64-31008 22-05

RADIO EMISSION MEASUREMENTS OF MOON AND JUPITER RELATING TO CASSIOPEIA A
NASA-TT-F-8966 N64-31559 23-05

NAVIGATION SYSTEM BASED ON CELESTIAL BODY TRACKER FOR LUNAR MOBILE LABORATORY /MOLAB/ OF APOLLO LOGISTICS SUPPORT SYSTEMS
NASA-CR-61013 N64-31717 23-22

SCINTILLATION-RATE SPECTRUM OF RADIO STAR AND SATELLITE SIGNALS IN AURORAL ZONE
AFCRL-64-743 N64-31737 23-12

INTRINSIC COLOR INDICES AND VARIABILITY CHARACTERISTICS OF GIANT M STARS
AD-421709 N64-32371 23-05

STAR BACKGROUND TO REDUCE POSITION ERROR IN PHOTOGRAPHIC GEODETIC OBSERVATIONS
N64-32385 23-12

RADIO SIGNAL SCINTILLATION FROM CASSIOPEIA A DURING SOLAR ECLIPSE
AFCRL-64-662 N64-32629 23-28

THREE-DIMENSIONAL SPECTRAL CLASSIFICATION OF G AND K STARS N64-33051 24-05

ISOTOPE ABUNDANCE RATIO OF CARBON 13-CARBON 12 IN STARS
NASA-CR-59217 N64-33125 24-05

RESOLUTION OF NIGHT SKY LIGHT INTO BASIC COMPONENTS OF INTEGRATED STARLIGHT, ZODIACAL LIGHT AND AIRGLOW
NASA-CR-58994 N64-33224 24-12

QUANTITATIVE SPECTRAL CLASSIFICATION OF STARS THROUGH PHOTOELECTRIC MEASUREMENTS IN NARROW BANDS
N64-33680 24-05

STAR CLUSTER
GLOBULAR CLUSTER DISTRIBUTION IN GALAXY
N64-13043 04-05

EVOLUTION OF STAR CLUSTERS IN THEIR BURNING PHASE
NASA-TR-R-144 N64-16730 08-05

STELLAR EVOLUTION IN DIFFUSE STAR CLUSTERS AND ASSOCIATIONS N64-19455 12-05

STAR CLUSTERS & STAR EVOLUTION N64-24499 17-05

GALAXIES & STAR CLUSTERS IN UNIVERSE
N64-24500 17-05

ASTRONOMY OF STELLAR CLUSTERS N64-24657 17-05

STAR COUNT
STELLAR POPULATION OF GALAXY NGC 3379, BASED ON MASS-LUMINOSITY RATIO AND SPECTROGRAMS
N64-15174 07-05

STAR DUST PROJECT
CF RADIOACTIVE DEBRIS
STAR DUST PROJECT METHOD OF PREPARING MATHEMATICAL MODEL OF ATMOSPHERIC MIXING AND CALCULATION FOR DEPOSITION PATTERNS OF RADIOACTIVE DEBRIS
DASA-1307 N64-18272 10-21

STAR DUST PROJECT - DISTRIBUTION OF SHORT-LIVED FISSION PRODUCTS IN STRATOSPHERE
DASA-1308 N64-20907 14-12

STAR FISH PROJECT
OBSERVATION OF STARFISH AND SOVIET ARTIFICIAL RADIATION BELTS
NASA-CR-55187 N64-13057 04-28

FLUXES AND ENERGY DISTRIBUTIONS OF ELECTRONS INJECTED BY HIGH-ALTITUDE NUCLEAR EXPLOSIONS - STAR FISH PROJECT
TDR-269/4260-20/-2 N64-23982 16-12

STARK EFFECT
GENERAL EXPRESSION FOR EXPANSION COEFFICIENTS CONNECTING STARK AND FIELD-FREE WAVE FUNCTIONS FOR HYDROGEN
UCRL-7493 N64-11581 03-23

LINEAR STARK BROADENING OF SPECTRAL LINE BY CHARGED PARTICLES N64-24058 16-23

STARK BROADENING PARAMETERS FOR NONHYDROGENIC LINES OF NEUTRAL AND SINGLY IONIZED ATOMS
NRL-6084 N64-28874 20-24

STARK EFFECT /BROADENING/ ON HIGH BALMER SERIES LINES EMITTED BY SOLAR FLARES N64-30262 22-28

STARK EFFECTS IN NEAR INFRARED SPECTRA OF POLYATOMIC MOLECULES, HINDERED ROTATION IN HYDROGEN PEROXIDE, AND INFRARED ABSORPTION OF MATRIX ISOLATED AMMONIA
AFCRL-64-668 N64-32581 23-07

STARTING
TEMPERATURE FIELD AND GRADIENTS IN ELEMENTS OF WELDED DISK TYPE TURBINE ROTOR UNDER STARTING CONDITIONS
FTD-TT-62-1363/1&2 N64-22165 15-13

STARTING TECHNIQUES FOR INTERNAL COMBUSTION ENGINES ON TRANSPORTATION AND CONSTRUCTION EQUIPMENT IN POLAR REGIONS
Y-F015-11-01-291 N64-27072 19-06

AUTOMATIC STARTUP TECHNIQUE FOR NUCLEAR REACTORS
LAMS-3111 N64-29424 21-23

OPTIMUM STARTING OF NUCLEAR ROCKET TO GIVE FULL POWER WITH PRECISION TIMING AND MINIMUM NOISE
NASA-CR-59209 N64-33120 24-27

STARVATION
CF DIET
CARDIOVASCULAR EFFECTS OF REFEEDING STRESS FOLLOWING STARVATION
TM-62-6 N64-21553 15-16

PHYSIOLOGICAL CHANGES ACCOMPANYING STARVATION IN ARCTIC AND SUBARCTIC ENVIRONMENTS
AAL-TDR-63-16 N64-30975 22-16

KETONE PRODUCTION AS HUMAN REACTION TO BIOLOGICAL STRESSES - COLD, EXERCISE, AND STARVATION
APR-2 N64-32144 23-16

INFLUENCE OF WATER INGESTION AND THIRST ON STARVATION METABOLISM
NASA-TT-F-9106 N64-33391 24-16

STATE
S EXCITED STATE
S GROUND STATE
S TRIPLET STATE

STATE EQUATION
EQUATION OF STATE FOR ELASTIC, ELASTIC-PLASTIC, & HYDRODYNAMIC FLOW
UCRL-7322 N64-11095 02-23

MASS & ENERGY TRANSFER, FLOW CHARACTERISTICS, KINETICS OF VARIOUS SYSTEMS, AND STATE EQUATIONS FOR HELIUM AND OXYGEN
JPRS-22321 N64-11965 03-01

STATE EQUATION FOR HELIUM N64-11971 03-23

STATE EQUATION FOR MOLECULAR OXYGEN & THERMODYNAMIC PROPERTIES N64-11972 03-23

STATE EQUATIONS FOR DIFFERENCE IN SPECIFIC HEATS & CHANGE IN ENTROPY OF GASES
RS-TR-63-5 N64-12243 03-23

PROPERTIES OF SPHERICAL NUCLEI - MAGNETIC DIPOLE MOMENTS, SPIN-DEPENDENT FORCES, AND APPROXIMATION

OF STATE EXCITATION
AROD-2890-4 N64-12671 04-23

THEORETICAL EQUATION OF STATE FOR FACE CENTERED CUBIC METALS
NOLTR-63-108 N64-13815 05-25

BIBLIOGRAPHY OF THEORIES OF STATE EQUATIONS FOR IONIZED GASES & ELECTROLYTIC SOLUTIONS
UCRL-6473, SUPPL. 1 N64-14068 05-23

EQUATION OF STATE OF OLIGOMER AND POLYMER LIQUIDS
N64-16690 08-23

STATE EQUATION DESCRIBING THERMODYNAMIC BEHAVIOR OF METALS OVER WIDE RANGE OF TEMPERATURE AND COMPRESSION
RM-3905-PR N64-20280 13-20

LEAST SQUARES METHOD FOR PRESENTING STATE EQUATION DATA IN FORM FOR CALCULATION ON DIGITAL COMPUTER
UCRL-7687 N64-21478 14-20

QUANTUM THEORY - EQUATION OF STATE FOR SOLID BODIES
FTD-TT-63-1113/1&2&4 N64-22159 15-25

THERMAL VALUES AND EQUATION OF STATE FOR HYDROGEN
FTD-TT-62-1569/1&2&4 N64-22625 15-13

FUNCTIONS FOR CALCULATION OF ENTROPY, ENTHALPY, & INTERNAL ENERGY OF REAL FLUIDS USING STATE EQUATIONS AND SPECIFIC HEATS N64-24147 16-11

STATE EQUATION OF GASES AT HIGH TEMPERATURES AND DENSITIES N64-25873 18-23

EQUATIONS OF STATE FOR BARYON STAR MODELS
NASA-TM-X-51815 N64-26366 18-23

INTERNAL STRUCTURE AND CHARACTERISTICS OF HYDROGEN PLANETS - EQUATIONS OF STATE OF HYDROGEN AT HIGH PRESSURES N64-28377 20-29

EQUATION OF STATE AND RELATED PROPERTIES OF POLYMER AND OLIGOMER LIQUIDS
NASA-CR-56914 N64-28954 20-07

NEGATIVE EQUATION OF STATE AND SPALL CRITERIA FOR SOLID MATERIAL UNDER DYNAMIC STRAIN
RTD-TDR-63-3039 N64-31235 22-33

EQUIVALENCE OF NECESSARY CONDITIONS FOR OPTIMAL CONTROL IN PROBLEMS WITH BOUNDED STATE VARIABLES
RM-3871-PR N64-32089 23-20

COMPUTER PROGRAM FOR CALCULATION OF HEAT CONTENT, COMPRESSIBILITY FACTOR, ENTROPY, AND FUGACITY COEFFICIENT OF PURE SUBSTANCE OR MIXTURE FROM EQUATION OF STATE
UCRL-11645 N64-33238 24-20

STATE VECTOR

MAPPING OF NONLINEAR INVARIANT VECTOR-DYADIC EQUATIONS TO STATE VECTOR FORM FOR OPTIMAL CONTROL
TN-41 N64-10544 01-20

STATE VECTOR EQUATIONS FOR PARAMETER VARIATION PROBLEM IN MULTIVARIABLE LINEAR SYSTEMS - OPTIMAL FEEDBACK CONTROL SYSTEM DESIGN
R-182 N64-19405 12-20

STATIC INVERTER

CAPACITOR EQUIPMENT PERFORMANCE AND RELIABILITY STUDY FOR STATIC INVERTERS AND CONVERTERS
NASA-CR-55745 N64-15878 07-09

PARALLEL INVERTER AND CONVERTER OPERATION AND IMPROVEMENTS IN TRANSFORMERS
NASA-CR-53206 N64-17205 09-06

PARALLEL OPERATION OF STATIC INVERTERS AND CONVERTERS AND TRANSFORMER IMPROVEMENT
NASA-CR-54012 N64-17760 09-06

PERFORMANCE AND RELIABILITY OF CAPACITORS FOR STATIC INVERTERS AND CONVERTERS
NASA-CR-54020 N64-18161 10-09

OPTIMIZATION OF HIGH POWER STATIC INVERTERS AND CONVERTERS - TRANSISTOR AND SILICON CONTROLLED INVERTER CIRCUITS
NASA-CR-42 N64-21419 14-09

IMPROVEMENT OF PARALLEL STATIC INVERTERS AND CONVERTERS USING ANNEALING SILICON-STEEL
NASA-CR-54074 N64-22192 15-06

GALLIUM ARSENIDE TUNNEL DIODES FOR STATIC INVERTER
ASD-TR-63-681 N64-24134 16-09

CAPACITORS FOR STATIC INVERTERS AND CONVERTERS
NASA-CR-54075 N64-25803 17-09

OPTIMIZATION OF HIGH POWER STATIC INVERTERS AND CONVERTERS
NASA-CR-54122 N64-29360 21-06

ALTERNATING CURRENT CHARACTERISTICS OF AEROSPACE STATIC INVERTER AND CONVERTER CAPACITORS
NASA-CR-54185 N64-31013 22-09

STATIC LOADING

TRANSMISSION ELECTRON MICROSCOPY OF SUBSTRUCTURES OF PLASTICALLY DEFORMED COPPER UNDER STATIC AND SHOCK LOADING
UCRL-10932 N64-10396 01-18

DELAYED FAILURE IN STRUCTURAL MATERIALS WETTED BY LIQUID METALS AND UNDER STATIC LOADING CONDITIONS
IITRI-B183-14 N64-12872 04-18

STRUCTURAL DESIGN TECHNIQUES FOR BRITTLE MATERIALS UNDER STATIC LOADS
ARF-8259 N64-18879 11-33

COMPLEMENTARY ENERGY METHOD FOR STATICALLY LOADED STRUCTURES WITH FINITE DEFORMATIONS
ME-836-639 N64-20773 14-33

MEASUREMENT OF QUICKLY-CHANGEABLE PRESSURES IN INTERNAL COMBUSTION ENGINE - CHARACTERISTICS OF ELECTRIC PRESSURE ABSORBERS UNDER STATIC LOAD
DFL-194 N64-21706 15-27

STRAIN GAUGE FOR LABORATORY STUDY OF SMALL SOIL SAMPLES UNDER STATIC & DYNAMIC LOADING
WL-TDR-64-7 N64-22700 15-15

NOTCH AND CRACK STRENGTH OF METALS UNDER STATIC OR FATIGUE LOADING
SAE PAPER-843C N64-23339 16-33

MECHANICAL BEHAVIOR OF FIBERS SUBJECTED TO STATIC LOADS
ML-TDR-64-118 N64-29852 21-33

EVALUATION OF FASTENERS AND FASTENING TECHNIQUES UNDER STATIC LOADING CONDITIONS FOR ELECTRONIC EQUIPMENT
REPT.-3 N64-32687 23-17

STATIC PRESSURE

NONLINEAR STRESS RESPONSE OF WINDOW GLASS TO STATIC PRESSURE AND RANDOM NOISE
NASA-TN-D-2025 N64-11898 03-23

PITOT-STATIC PROBE FOR MEASURING STAGNATION PRESSURE AND UNDISTURBED STATIC PRESSURE ON SUBSONIC AND SUPERSONIC AIRCRAFT
RAE-TRANS-1032 N64-16318 08-11

IMPROVED STATIC PRESSURE SENSING PROBES FOR ALL MACH NUMBERS
LB-31575 N64-18359 10-15

STATIC PRESSURE SENSING PROBE FOR ALL MACH NUMBERS FOR AIRCRAFT OR MISSILES
LB-31589 N64-18621 11-15

STATIC PRESSURES OF SODIUM VAPOR EXPANSION WITH INERT-GAS-INJECTION PRESSURE-MEASURING TECHNIQUE
NASA-TN-D-2276 N64-18961 11-02

STATIC AND DYNAMIC PRESSURE MEASUREMENTS OF GAS COMBUSTION CHAMBERS
FTD-TT-63-23/1&2 N64-18997 11-26

MEASUREMENTS OF FLUCTUATING STATIC AND STAGNATION POINT PRESSURES IN SUBSONIC TURBULENT WAKES
DTMB-1779 N64-19203 11-15

MEASUREMENT AND INSTRUMENT ERRORS IN STATIC-PRESSURE ALTIMETER SYSTEM
AIAA PAPER-64-344 N64-23230 16-15

RESISTANCE & RESTORATION OF ANNULAR DIFFUSERS WITH CYLINDRICAL & CONICAL INSERTS FOR MARINE GAS TURBINES
FTD-TT-63-1039/1&2 N64-25454 17-02

THEORY AND DATA REDUCTION METHOD FOR PILOT-STATIC TECHNIQUE OF UPPER ATMOSPHERE MEASUREMENT
NASA-CR-56411 N64-25771 17-12

TRANSONIC WIND TUNNEL TEST OF SCALE MODEL DE HAVILLAND BLUE STREAK MISSILE - DYNAMIC STABILITY AND STATIC PRESSURE
ARC-CP-734 N64-29234 21-04

AVERAGE MASS FLOW VELOCITY MEASUREMENTS IN THIN RECTANGULAR CHANNELS USING SINGLE FIXED TOTAL-PRESSURE PROBE WITH FIXED STATIC PRESSURE PROBE
NASA-TN-D-2212 N64-32405 23-11

STATIC PRESSURE AND FORCE ON FLOW SEPARATION DISK
LMSC/804382 N64-33845 24-02

STATIC STABILITY
STATIC STABILITY AND RADIATIVE HEATING ASSOCIATED WITH MARS AND VENUS ATMOSPHERIC ENTRY
N64-10081 01-13

RESIDUAL STATIC STRENGTH OF TITANIUM & STAINLESS STEEL ALLOYS AND ONE SUPERALLOY AT VARIOUS TEMPERATURES
NASA-TN-D-2045 N64-12104 03-18

STATIC STABILITY OF SATURN V SCALE MODELS IN TRANSONIC WIND TUNNEL
AEDC-TDR-64-40 N64-17522 09-30

SHOCK-EXPANSION METHOD FOR CALCULATING STATIC AND DYNAMIC STABILITY OF AIRFOILS & AXISYMMETRIC BODIES AT HYPERSONIC SPEEDS
C-910188-4 N64-19185 11-02

STATIC STABILITY OF BLUNT BODY OF REVOLUTION AT HYPERSONIC SPEED IN HELIUM
NASA-TN-D-2282 N64-19478 12-02

REDUCTION OF NEUTRAL POINT MIGRATION EFFECTS BY INTRODUCING GAP BETWEEN FIN AND BODY OF FIN STABILIZED MISSILES
RF-TR-64-8 N64-20456 13-02

HYPERSONIC STATIC AND DYNAMIC STABILITY COEFFICIENTS OF SHARP-NOSED AXISYMMETRIC BODIES AND WING-FUSELAGE COMBINATIONS
C910188-8 N64-24127 16-11

WIND TUNNEL INVESTIGATION OF EFFECTS OF THRUST, SHROUD LENGTH, AND SHROUD CAMBER ON STATIC STABILITY CHARACTERISTICS OF SHROUDED PROPELLERS
DTMB-AERO-1073 N64-24882 17-02

CONICAL AFTERBODY EFFECT ON REARWARD STATIC STABILITY OF BLUNT NOSED ENTRY VEHICLE AT SUPERSONIC SPEED
NASA-CR-58614 N64-28834 20-02

NONLINEAR THEORY OF STATIC STABILITY OF SHELLS - BUCKLING ANALYSIS N64-30909 22-33

HELICOPTER FLIGHT INVESTIGATION OF EFFECTS OF GROSS CHANGES IN STATIC DIRECTIONAL STABILITY ON V/STOL HANDLING
NASA-TN-D-2477 N64-31081 22-04

HYPERSONIC STATIC AND DYNAMIC STABILITY OF OGIVE AND OGIVE-CYLINDER FUSELAGES, AND OF RECTANGULAR AND DELTA WINGS
C910188-12 N64-33296 24-02

ANALOG COMPUTER FOR EVALUATION OF AERODYNAMIC COEFFICIENTS DURING WIND TUNNEL STATIC STABILITY TESTS
NOLTR-64-74 N64-33860 24-10

STATIC TESTING
SPOT WELDING OF PATCHES OF SILVER-LITHIUM & COPPER BRAZING ALLOYS FOR STATIC & SHEAR FATIGUE STRENGTH
FGT-2999 N64-12648 04-18

STATIC & DYNAMIC TESTS ON LEAD-SHIELDED STEEL CASK USED FOR RAIL SHIPMENT OF RADIOACTIVE FUEL
DP-843 N64-13372 04-33

LIQUID & SOLID PROPELLANT SIMULANTS FOR STATIC STRUCTURAL TESTS
ASD-TDR-63-405 N64-14136 05-26

STATIC FORCE AND MOMENT COEFFICIENTS FOR ISOLATED DUCTED PROPELLER
AD-428819 N64-15296 07-03

STATIC AND VIBRATIONAL TENSILE PROPERTIES OF NYLON AND MYLAR ROPE
FTDM-3159 N64-16638 08-19

AEROSPACE GROUND EQUIPMENT FOR LARGE SOLID PROPELLANT ROCKET ENGINES - TRANSPORTATION, HANDLING, TEST, AND ASSEMBLY TECHNIQUES
RTD-TDR-63-1025, VOL. 1 N64-17646 09-10

CONTROL OF BERYLLIUM DURING PRODUCTION AND TESTING OF HIGH ENERGY PROPELLANTS CONTAINING BERYLLIUM - INDUSTRIAL SAFETY
RPL-TDR-64-10, VOL. 2 N64-18013 10-17

RAIN IMPACT DAMAGE AND STATIC TESTING OF LEADING EDGE PANEL OF WING
FGT-2728 N64-20388 13-03

STATIC PERFORMANCE OF ASPECT RATIO 2/3 PERIPHERAL JET GROUND EFFECT MACHINE
TR-011-5 N64-21369 14-04

PROPULSION SYSTEM, GROUND RESONANCE AND STRUCTURE STATIC TESTING FOR XV-5A AIRCRAFT
QTPR-8 N64-26656 18-04

METHODS FOR REDUCING NOISE PRODUCED BY STATIC TESTING OF SATURN LAUNCH VEHICLE
NASA-TN-D-2351 N64-28322 20-23

STATIC TESTING OF LIFT FAN - PROPULSION AND ATTITUDE CONTROL SYSTEMS PERFORMANCE
TCREC-TR-62-21 N64-31128 22-03

WING BOX FUEL CONTAINMENT STUDIES - STATIC AND FATIGUE TESTS ON TITANIUM BOX BEAM SPECIMENS
LAC/425741/A/ N64-31302 22-17

STATIC TESTING OF TX-354 MOTOR FOR CASTOR II PROGRAM
RT-TN-64-37 N64-32288 23-27

HYDROTESTING OF MOTOR CASES AND STATIC TESTING OF NOZZLE THROAT INSERT
REPT.-30-64 N64-33732 24-27

STATION
SA GROUND STATION
SA METEOROLOGICAL STATION
SA PLANETARY BASE
SA SPACE STATION
SA TRACKING STATION
GEMINI AND AGENA TELEMETRY FORMATS AND NETWORK STATION SYSTEMS FOR MANNED SPACE FLIGHT NETWORK
NASA TM-X-55099 N64-33567 24-08

STATIONARY ORBIT
ORBITAL TRACKING OF GEOSTATIONARY SATELLITE - THEORY & METHODS
NASA CR-52204 N64-10087 01-08

LUNISOLAR EFFECT ON PERTURBATIONS OF NOMINALLY GEOSTATIONARY SATELLITES
RAE-TN-SPACE-47 N64-13339 04-29

STATISTICAL ANALYSIS
ABSTRACT MODEL OF STATISTICAL CONTROL FOR MANUFACTURING PROCESSES OBTAINING MAXIMUM NET PROFIT - CYBERNETICS N64-12459 04-01

STATISTICAL ANALYSIS OF SURFACE WIND VELOCITY, SKY CONDITION, AND VISIBILITY
ERDA-88 N64-12925 04-12

ONE-SIDED STATISTICAL TOLERANCE FACTORS
PWA-FR-781 N64-13221 04-26

STATISTICAL ANALYSIS OF VACUUM MELTING AND ARC REMELTING OF HIGH STRENGTH STEEL
ASD-TR-7-678/V/ N64-14503 06-18

STUDY OF BALANCE EQUATION FINITE-DIFFERENCE STRUCTURE WITH STATISTICAL METHODS
JPRS-23267 N64-15342 07-20

ELECTRONIC SIMULATION OF BIOLOGICAL CLOCK - ANIMAL STUDY AND STATISTICAL ANALYSIS
ASD-TDR-63-136 N64-15592 07-16

STATISTICAL INVESTIGATIONS OF EFFECT OF SOLAR ACTIVITY ON CLIMATE N64-15621 07-21

STATISTICAL ANALYSIS OF WHITE SANDS METEOROLOGICAL DATA
ERDA-106 N64-15689 07-21

MONTE CARLO ANALYSIS ON IBM 7090 AND 7094 COMPUTER USING AUTOMATED STATISTICAL ANALYSIS PROGRAM
NASA-CR-55835 N64-16735 08-20

IRRELEVANCE IN REJECTION REGION OF T-TEST - SMALL SAMPLE TEST
AMRL-TDR-63-109 N64-16798 08-20

STATISTICAL STUDY TO ASCERTAIN VALIDITY OF AMR RADIO CIRCUIT PERFORMANCE SUMMARIES FOR HF RADIO OUTAGE
TOR-269/A4306/-6 N64-16877 08-08

STATISTICAL ANALYSIS OF SUPPRESSING MECHANISM OF CELL DIVISION UNDER INFLUENCE OF IONIZING RADIATION N64-16904 09-16

STATISTICAL METHOD OF REDUCING RANDOM ERRORS IN OBSERVED OR CALCULATED DATA
RTD-TDR-63-4020 N64-17957 10-20

MANPOWER & PERSONNEL FOR ADVANCED WEAPON SYSTEMS - ESTIMATION OF REQUIREMENTS
AMRL-TDR-63-110 N64-18599 11-14

STATISTICAL ANALYSIS OF VELOCITY DISTRIBUTION OF TURBULENCE IN MIXING REGION OF ROUND SUBSONIC JET
AGARD-451 N64-18721 11-11

STATISTICAL ANALYSIS OF EXPERIMENTS INCLUDING FACTORIAL DESIGNS
SU-56 N64-19392 12-20

STATISTICAL ANALYSIS EVALUATION OF MELTING AND TRANSVERSE PROPERTIES OF HIGH STRENGTH STEEL
ASD-TR-7-678/VI/ N64-20843 14-18

INFLUENCE OF FABRICATION TOLERANCES ON REACTOR CORE DESIGN AND STATISTICAL METHOD FOR EVALUATING DESIGN CORRECTION
EUR-1302.E N64-21005 14-23

WAVE PROPAGATION IN ELASTIC MATERIALS AND STATISTICAL ANALYSIS OF ELASTO-DYNAMIC PROBLEM
AFOSR-64-0144 N64-22047 15-33

DETERMINISTIC AND STATISTICAL ANALYSES OF DYNAMIC LOADING OF AIRCRAFT OPERATING ON PREPARED SURFACES
RTD-TDR-63-4139, VOL. II N64-22316 15-33

STATISTICAL ANALYSIS OF CROSS-CORRELATION ELECTROMAGNETIC NOISE BETWEEN RADAR RECEIVERS
USCEE-107 N64-24228 16-09

COMPUTER METHODS OF FITTING SURFACES TO ASSAY AND OTHER DATA BY REGRESSION ANALYSIS
BM-RI-6508 N64-26693 18-20

NUMERICAL WEATHER FORECASTING - STATISTICAL ANALYSIS OF ERRORS IN LINEARIZATION OF VORTICITY EQUATION FOR DIFFERENT ATMOSPHERIC MOVEMENTS
N64-27937 20-21

DESIGN AND ANALYSIS OF SENSITIVITY EXPERIMENTS
NASA-CR-58491 N64-28882 20-21

APPLICATION OF STATISTICS TO ANALYSIS OF STATIONARY TIME SERIES - HARMONIC ANALYSIS
NADC-AC-64095 N64-29763 21-21

COMPUTER PROGRAMMING TECHNIQUES - STATISTICAL ANALYSIS, INFORMATION RETRIEVAL, GRAPHIC INPUT AND DISPLAY, AND AUTOMATED DEBUGGING
RADC-TDR-64-233 N64-29932 21-18

SPECTRAL LINE SHAPES EMITTED FROM PLASMAS - QUANTUM STATISTICAL ANALYSIS
RTD-TDR-63-3130 N64-30879 22-24

STATISTICAL ANALYSIS OF PILOT HEIGHT-WEIGHT DATA FOR SIZING OF PROTECTIVE CLOTHING
AMRL-TDR-64-66 N64-31842 23-16

OBTAINING INTERVAL ESTIMATE OF SOLUTION OF SPECIAL CASE OF REGRESSION EQUATION AT GIVEN CONFIDENCE LEVEL
NAVWEPS-7988 N64-32568 23-17

STATISTICAL DECISION THEORY

PERFORMANCE IMPROVEMENT OF SERVICE SYSTEMS THROUGH OPTIMAL PRIORITY CLASSIFICATION - STATISTICAL DECISION THEORY
ORC-63-29/RR/ N64-19054 11-20

OPTIMIZATION CRITERION OF BINARY STATISTICAL DECISION THEORY APPLIED TO PARAMETERS OF SIGNAL AND DISTORTION DISTRIBUTION
E-T-P-64-3 N64-25076 17-23

APPLICATION OF STATISTICAL DECISION THEORY TO DESIGN OF AUTOMATIC RADAR DETECTOR SYSTEMS - DATA QUANTIZATION FOR SEQUENTIAL DETECTION
NEL-1218 N64-25961 18-20

APPLICATION OF STATISTICAL DECISION THEORY TO DESIGN OF EXTRATERRESTRIAL LIFE DETECTORS
NASA-CR-58531 N64-28939 20-14

STATISTICAL DECISION THEORY AND BAYESIAN EFFECTIVENESS OF INFORMATION SYSTEMS
DRD-64-112 N64-31967 23-21

STATISTICAL FORECASTING PROJECT

NONADIABATIC PROCESSES IN DEVELOPMENT OF LARGE SCALE ATMOSPHERE PRESSURE FORECASTING
JPRS-26639 N64-30875 22-21

METEOROLOGICAL FIELDS - MATHEMATICAL ANALYSIS, PREDICTION AND STATISTICAL EXTRAPOLATIONS
QR-7 N64-32023 23-21

STATISTICAL PROBABILITY

TESTING OF RANDOM NUMBER GROUPS WITH ZONE TEST METHOD FOR USE IN STATISTICAL QUALITY CONTROL PROBABILITY N64-11866 03-21

DAMAGE CAUSED BY BOMB ATTACKS REPRESENTED AS DOUBLE INTEGRAL FOR ANY GEOMETRICAL SHAPE AND SIZE OF TARGET
ORA-63-16 N64-16654 08-01

HIGH & LOW PROBABILITY ELECTROEXPLOSIVE DEVICE FUNCTIONING LEVELS
NOLTR-63-266 N64-18643 11-21

STATISTICAL PROBABILITY OF FATIGUE FAILURE THROUGH CRACK PROPAGATION
NASA-CR-53516 N64-19257 11-15

LOGIC NETWORKS FOR MACHINE LEARNING USING STATISTICAL PROBABILITIES TO DETERMINE MACHINE BEHAVIOR - PROBABILITY STATE VARIABLE DEVICE
ASD-TDR-63-664, VOL. 2 N64-20269 13-21

TARGETING TECHNIQUES - SEQUENTIAL DETECTION AND STATISTICAL PROBABILITY OF STRIKES & FAILURE
REPT.-33 N64-23921 16-21

STATISTICS

SA BALLOT THEOREM
SA BAYESIAN STATISTICS
SA BOSE-EINSTEIN STATISTICS

SA MATHEMATICAL STATISTICS
SA NULL HYPOTHESIS
THEORY OF RANDOM VARIABLES BASED ON PROBABILITY AXIOMS, AND NEW CONCEPTS LEADING TO SCIENCE OF STATISTICAL INFERENCE
CERN-63-29 N64-10153 01-20

STATISTICAL THEORY OF SELF-ADJUSTING SYSTEMS - GRADE OF QUALITY CONTROL DETERMINATION
JPRS-17820 N64-10488 01-06

DEVISING AND EQUATING DISTRIBUTION SERIES AND COMPUTATION OF THEORIES FROM STATISTICAL DATA CHARACTERISTICS - BOOK REVIEW
JPRS-18338 N64-10502 01-20

CYBERNETIC ASPECT OF STATISTICS
JPRS-18579 N64-10784 02-20

POLYNOMIAL STATISTICS AND ANALYTIC THEORY OF DIFFERENTIAL EQUATIONS - STOCHASTIC PROCESSES IN INDEPENDENT STATISTICS
NH-TRANS-282 N64-11626 03-20

AUTOMATIC DATA PROCESSING TECHNIQUES FOR STATISTICAL EVALUATION OF ROCKET MOTOR PERFORMANCES
RK-TR-63-23 N64-12222 03-01

SYSTEMATIC STATISTICS USED FOR DATA COMPRESSION IN SPACE VEHICLE TELEMETRY SYSTEM
NASA-CR-53031 N64-13279 04-08

BURGERS MODEL EQUATION FOR STATISTICAL THEORY OF TURBULENCE
REPT.-2900-373 N64-13866 05-20

STATISTICS OF VISIBILITY IN SATELLITE COMMUNICATION SYSTEMS
REPT.-36G-7 N64-14006 05-29

BOUNDS /MAXIMA & MINIMA/ FOR INTEGRALS APPLIED TO STATISTICAL PROBLEMS IN LIFE TESTING & RELIABILITY
ORC-63-27-/RR/ N64-14763 06-20

STATISTICAL PROBLEM OF OPTIMAL CONTROL - FUNCTIONAL OF CONTROL PROCESS N64-14957 06-20

STATISTICS - EXPERIMENTAL DESIGN FOR FUEL CELL RESEARCH N64-17398 09-06

STATISTICAL DERIVATION OF NONPARAMETRIC MEASURES OF RELIABILITY AND DISCRIMINATION
AMRL-592 N64-17481 09-23

TECHNIQUES FOR STATISTICAL ANALYSIS OF RANDOM DIGITAL DATA N64-18559 11-20

HIGH & LOW PROBABILITY ELECTROEXPLOSIVE DEVICE FUNCTIONING LEVELS
NOLTR-63-266 N64-18643 11-26

EFFECTIVENESS OF RECEPTORS IN RECOGNITION SYSTEMS BASED ON STATISTICAL CLASSIFICATION THEORY N64-19419 12-23

RELATIONSHIP BETWEEN DYNAMIC AND STATISTICAL APPROACHES TO WEATHER FORECASTING N64-19431 12-21

STATISTICAL PREDICTION OF DIURNAL PHASE CHANGES RESULTING FROM CHANGE IN ALTITUDE OF IONOSPHERIC REFLECTING LAYER N64-19693 12-12

BALLOT THEOREM APPLICATIONS IN ORDER STATISTICS
CU-39-64-NONR-266/33/MS N64-20543 13-20

DISTRIBUTION FUNCTIONS OF BALLOT THEOREM IN ORDER STATISTICS
CU-40-64-NONR-266/33/MS N64-20544 13-20

STATISTICS AND PROBABILITY DISTRIBUTION - MAXIMUM LIKELIHOOD AND LEAST SQUARES THEORY
CERN-64-18 N64-20551 13-20

STATISTICAL PLASMA THEORY - KINETIC EQUATION FOR PLASMA
LP-29 N64-21689 15-24

THERMODYNAMIC & STATISTICAL APPROACH TO NUCLEAR DYNAMIC POLARIZATION
LNF-63/15 N64-21771 15-23

STATISTICAL MODELING OF PHYSICAL SYSTEMS AND VARIOUS MATHEMATICAL STATEMENTS OR FORMULATIONS OF MODELS
EDL-M635 N64-22548 15-20

MATHEMATICS - STATISTICAL LINEARIZATION THEORY APPLIED TO NONLINEAR AUTOMATIC CONTROL SYSTEMS
FTD-TT-62-1385/1&2&4 N64-22623 15-20

STATISTICAL METHODS IN ELECTROCHEMICAL RESEARCH N64-22890 16-06

MATHEMATICAL ANALYSIS OF EXPONENTIAL, WEIBULL, AND GAMMA POPULATION ORDER STATISTICS
ARL-64-31 N64-23107 16-20

STATISTICAL METHODS FOR FORECASTING OPERATIONAL AIRPORT CEILING AND VISIBILITY CONDITIONS
TR-1 N64-23198 16-20

STATISTICAL STUDIES OF HYDROMAGNETIC EMISSION
REPT.-8-08-64-1, VOL. II N64-24063 16-12

POPULATION SELECTION AND RANKING AND ORDER STATISTICS FOR BINOMIAL DISTRIBUTIONS
TR-68 N64-24180 16-20

STATISTICAL THEORY OF ATMOSPHERIC TURBULENCE N64-24411 17-21

STATISTICAL SOLUTION OF NONLINEAR SYSTEM N64-24705 17-16

STATISTICAL ERRORS IN MINIMIZING FUNCTIONAL FOR APPLICATION TO SYNTHESIS OF PULSE SYSTEMS WITH FINITE MEMORIES N64-24709 17-20

STATISTICAL CODING AND VISUAL FIDELITY APPROACHES TO TELEVISION BANDWIDTH REDUCTION PROBLEM
AFCRL-64-323 N64-24950 17-08

STATISTICS OF PROBABILISTIC NETWORK - MATHEMATICS
AROD-3298-10 N64-25094 17-20

STATISTICAL FLUCTUATIONS IN CROSS SECTIONS, EXCITATION FUNCTIONS AND ANGULAR DISTRIBUTIONS FOR NUCLEON TRANSFER REACTIONS, AND SPIN-CUTOFF PARAMETERS FROM COMPOUND NUCLEAR REACTIONS
ORNL-3630 N64-25526 17-23

NAKAGAMI-RICE PROBABILITY DISTRIBUTION N64-25528 17-20

STATISTICAL TECHNIQUE FOR DESCRIBING LOCALIZED VIBRATORY ENVIRONMENTS OF ROCKET VEHICLES
NASA-TN-D-2158 N64-25708 17-30

STATISTICAL PROPERTIES OF NOISE PULSES GENERATED BY RANDOM PROCESSES CROSSING FIXED THRESHOLDS
AF-109 N64-25898 18-08

ASYMPTOTIC EFFICIENCY OF CLASS OF ESTIMATES OF CONTRASTS IN LINEAR MODELS
IMM-NYU-323 N64-25946 18-20

STATISTICAL METHOD FOR EVALUATING URANIUM-235 HOMOGENEITY IN REACTOR FUEL RODS
NAA-SR-9600 N64-26702 18-23

STATISTICAL DESCRIPTION OF FREE BOSON FIELD
RM-4103-PR N64-27713 19-25

DISTRIBUTION OF PRODUCTS AND QUOTIENTS OF RANDOM VARIABLES
ARL-64-115 N64-28223 20-20

INDIRECT ESTIMATION OF AVAILABILITY PARAMETERS
REPT.-6444-6042-TU000 N64-28981 20-20

STATISTICAL METHODS FOR STUDY OF RANDOM RADIATION FIELDS AND ASSOCIATED CLOUD FORMATIONS N64-29082 21-21

STATISTICAL ANALYSIS OF TWO-DIMENSIONAL LINEAR VEHICLE USING MEASURED GROUND POWER SPECTRAL

DENSITY
REPT.-8392 N64-31649 23-33

STATISTICS OF LIGHTNING DISCHARGES IN THUNDERSTORM ACTIVITY N64-31766 23-21

STATISTICAL ANALYSIS OF NEUTRON DISTRIBUTION IN NEUTRON LOGGING PROBLEMS - BOLTZMANN EQUATION N64-31796 23-12

RAPID RESPONSE INSTRUMENTATION FOR TURBULENT FLUX MEASUREMENT IN BOUNDARY LAYER AND FILM READER SYSTEM - ANALOG STATISTICAL ANALYZER
AFCRL-64-147 N64-31846 23-15

FILM TRANSPORT AND ANALOG STATISTICAL ANALYZER - STUDY OF ATMOSPHERIC PROPERTIES N64-31850 23-15

NUMERICAL METHODS FOR WEATHER FORECASTING - DIFFERENTIAL EQUATIONS FOR DYNAMIC PROCESSES IN ATMOSPHERE
AD-601752 N64-32060 23-22

STATISTICAL METHODS APPLIED TO FREE ATMOSPHERE WIND CIRCULATION
FTD-TT-64-357/1&2 N64-32237 23-21

PRINCIPLE OF INCLUSION AND EXCLUSION - ORDER STATISTICS AND DESIGN OF EXPERIMENTS
AROD-2763-16 N64-32249 23-23

STATISTICAL TECHNIQUES FOR CLASSIFICATION OF ACOUSTIC SIGNALS N64-32265 23-23

OBTAINING INTERVAL ESTIMATE OF SOLUTION OF SPECIAL CASE OF REGRESSION EQUATION AT GIVEN CONFIDENCE LEVEL
NAVWEPS-7988 N64-32568 23-17

APPLICATION OF STATISTICAL DECISION THEORY TO AUTOMATIC RADAR DETECTION SYSTEMS
NEL-1202 N64-32577 23-20

ESTIMATORS FOR MEAN AND STANDARD DEVIATION OF LOGISTIC DISTRIBUTION N64-33087 24-20

BASIC STATISTICAL CONCEPTS AND MEASUREMENT DATA ANALYSIS
AMCP-706-110 N64-33126 24-20

TABLES FOR EXPERIMENTAL STATISTICS
AMCP-706-114 N64-33127 24-20

OPTIMAL PERSONNEL SELECTION BASED ON RELATIVE RANK AND RANDOM APPEARANCE
CU-47-64-NONR-266/59/MS N64-33293 24-20

ASYMPTOTIC THEORY OF FIXED-WIDTH SEQUENTIAL CONFIDENCE INTERVALS FOR POPULATION MEAN
CU-46-64-NONR-266/59/MS N64-33337 24-20

COMPUTER PROGRAM FOR ERROR STATISTICAL CONTROL
RADC-TDR-64-149, VOL. VIII N64-33544 24-08

BINARY DECOMPOSITION OF EVEN NUMBERS FOR STATISTICAL APPLICATION
LA-3106, VOL. II N64-33591 24-20

STATISTICAL METHODS IN WEATHER FORECASTING
AD-420654 N64-33653 24-21

STATISTICAL CLASSIFICATION TECHNIQUES
AD-601886 N64-33788 24-20

STATOR
CF GENERATOR
CF IMPELLER
BOUNDARY LAYER TESTS IN VORTEX WIND TUNNEL - ROTOR STATOR BLADES
ARL/ME-255 N64-20552 13-11

MAGNETIC FIELD IN AIR GAP OF INDUCTION MACHINE WITH CURVED STATOR
FTD-TT-63-157/1&2&4 N64-23423 16-04

STEADY STATE
SA EQUILIBRIUM
STEADY-STATE CHARACTERISTICS OF DIFFERENTIAL PRESSURE SYSTEM FOR EVALUATING ANGLES OF ATTACK AND SIDESLIP OF RANGER IV VEHICLE
NASA-TN-D-1966 N64-10519 01-02

SOUND SCATTERING OF STEADY STATE PLANE WAVE BY HOLLOW CYLINDER OF ARBITRARY THICKNESS - SUBMARINE DETECTION
RM-223 N64-10538 01-23

ANALYSIS OF MIXED BOUNDARY VALUE PROBLEMS IN STEADY-STATE ELASTODYNAMICS
AFCRL-63-785 N64-11931 03-20

CONVECTIVE HEAT EXCHANGE BETWEEN GAS-TURBINE DISK AND SCREEN - GENERALIZED STEADY-STATE PROCESS STUDY N64-11966 03-29

AUTOMATIC DIGITAL COMPUTER METHOD FOR STEADY-STATE SOLUTIONS TO NAVIER-STOKES EQUATION
ARC-R&M-3331 N64-13356 04-20

STEADY-STATE ANALYSIS OF LAMINAR INSTABILITY PROBLEM DUE TO HEATING PARA-HYDROGEN IN LONG, SLENDER TUBES
NASA-TN-D-2084 N64-14939 06-11

STEADY-STATE CONTROL PROPERTIES OF AN ELECTRON BOMBARDMENT ION THRUSTOR
NASA-TN-D-2171 N64-15910 07-27

RECURSIVE APPROACH TO THEORY OF SLOW, STEADY STATE, VISCOELASTIC FLOW
RJ-227 N64-17471 09-11

STEADY STATE CONDITIONS OF HIGH TEMPERATURE AND PINCH EFFECT IN LONGITUDINAL MAGNETIC FIELD
FTD-TT-63-373/1&2&4 N64-19218 11-24

STEADY VORTEX FLOWS DRIVEN BY RADIAL CONVECTION OF ANGULAR MOMENTUM
ATN-64/9227/-4 N64-19246 11-11

INTEGRAL INVARIANCE OF CLASS OF STEADY STATE VISCOUS INCOMPRESSIBLE FLOWS
MD-63-3 N64-19268 11-11

THERMIONIC CONVERTER FOR STEADY STATE ELECTRO-MAGNETIC COAXIAL PLASMA ACCELERATOR
LAMS-3041 N64-19304 12-24

STEADY STATE AND KINETIC BEHAVIOR OF SYSTEM OF LOOSELY COUPLED REACTOR CORES
LAMS-2967 N64-19908 12-23

STEADY STATE AND EVOLUTION THEORIES IN COSMOLOGY
NASA-CR-55177 N64-22765 16-05

STEADY STATE & TRANSIENT OPERATING CHARACTERISTICS OF LONG CYLINDRICAL SHROUD SUPERSONIC EJECTORS
NASA-CR-56653 N64-24114 16-04

SIZE EFFECTS ON STEADY STATE CONTROL PROPERTIES OF ELECTRON BOMBARDMENT ION THRUSTOR
NASA-TN-D-2470 N64-28724 20-17

EVALUATION OF AXIAL FLOW MASS FLOW METER UNDER STEADY STATE CONDITIONS
NATTS-ATL-TN-26 N64-31703 23-11

OPERATING INSTRUCTIONS AND TRANSISTOR AND DIODE MODELS OF NET-1 DIGITAL COMPUTER FOR SIMULATING DIRECT CURRENT STEADY STATE AND TRANSIENT BEHAVIOR OF ELECTRICAL CIRCUITS
LA-3119 N64-32936 24-09

TWO-DIMENSIONAL STEADY-STATE SOLUTIONS FOR MOVING NORMAL CONTACT LOADS ON SURFACE OF VISCOELASTIC BASE
TR-148 N64-33298 24-11

STEAM
STEAM-HYDROGEN SYSTEM - HEAT CONTENT AND HUMIDITY DIAGRAM
RSIC-106 N64-13813 05-23

GAS CHROMATOGRAPH FOR DETERMINATION OF GASES IN SUPERHEATED STEAM FROM CALCINATION OF RADIOACTIVE WASTE IN SULFUR
DP-880 N64-20678 13-07

HEAT EMISSION DURING CONDENSATION OF MOVING STEAM IN SINGLE HORIZONTAL PIPE
FTD-TT-64-301/1&2 N64-26116 18-13

SOLAR, DYNAMIC, SPACE POWER SYSTEM USING STEAM AS WORKING FLUID
ASTRA-846-6.1 N64-33751 24-06

STEAM GENERATOR
STRESS ANALYSIS OF 37-TUBE MODULAR STEAM GENERATOR HEAD
NAA-SR-8514 N64-14517 06-06

PHOTOELASTIC STRESS MEASUREMENT ON STEAM GENERATOR
NAA-SR-8515 N64-14540 06-33

STEAM TURBINE
INFLUENCE OF WIDE HUB ON ROOM TEMPERATURE BURST-STRENGTH OF MODEL STEAM TURBINE ROTORS
ARC-CP-661 N64-13910 05-17

CALCULATION OF TEMPERATURE DISTRIBUTION AND THERMAL STRESS IN AIR COOLED STEAM TURBINE ROTOR
FTD-TT-62-766/1&2&4 N64-16342 08-27

AERODYNAMIC STUDY OF STAGES OF STEAM AND GAS TURBINES AT LOW VELOCITIES
FTD-TT-62-1742/1&2&4 N64-21924 15-06

STEAM TURBINE SPEED CONTROL BY FLUID AMPLIFIERS
N64-23826 16-11

STEARATE
SUBSTRATE CLEANING, ORGANIC MONOLAYER DEPOSITION, AND ROLE OF SPREADING SOLVENT DURING FORMATION OF METALLIC STEARATE FILMS
SSD-TDR-63-316 N64-15298 07-25

STEEL
SA AUSTENITIC STEEL
SA HIGH STRENGTH STEEL
SA MARAGING STEEL
SA MARTENSITIC STEEL
SA STAINLESS STEEL
CF ALLOY
CF CARBIDE
CF FERRITE
CF IRON ALLOY
NOTCH SENSITIVITY OF ALUMINUM ALLOYS COMPARED WITH STRUCTURAL STEEL - STRESS CONCENTRATION INDEX
N64-10145 01-18

CHEMICAL AND MECHANICAL PROPERTIES OF ALUMINUM, NICKEL, STEEL AND TITANIUM ALLOYS
NASA-CR-52533 N64-10341 01-18

MECHANICAL PROPERTIES OF THREE HOT-WORKED STEELS AND ONE STAINLESS STEEL - TENSILITY, COMPRESSION, SHEET SINGLE SHEAR, BEARING, & BEND TESTS
ASD-TDR-63-116 N64-10545 01-18

X-RAY SPECTROSCOPY AND SPECTROGRAPHY FOR CONTROL OF ALUMINUM, TITANIUM, AND STEEL WELDING
OTS-63-22058 N64-10589 01-17

CORROSION OF REINFORCING STEEL IN POROUS CONCRETE
JPRS-17616 N64-10704 02-18

POWDER-PLATE ELECTRODE FOR ELECTROSLAG FACING - SHEET STEEL
N64-10768 02-18

ELECTRON BEAM & ELECTROSLAG REFINING TO IMPROVE QUALITY OF STEELS & ALLOYS FOR WELDMENTS
JPRS-18490 N64-10770 02-18

MECHANISM OF CRYSTALLIZATION AND DEVELOPMENT OF NOZZLE FLOW FOR CONTINUOUS CASTING OF STEEL
JPRS-18710 N64-10785 02-18

ANNIHILATION OF VACANCIES DURING CREEP WITH REPLACEMENT BY NITROGEN, BORON, OR CARBON AS A FACTOR IN INCREASED HEAT-RESISTANCE IN STEEL
N64-10792 02-18

HIGH TEMPERATURE STEEL STRUCTURE WELDING AND WELDING MACHINES
JPRS-21896 N64-10846 02-18

MELTING OF STEEL ALLOYS BY ELECTROSLAG PROCESS
JPRS-21912 N64-10847 02-18

ELECTRIC ARC MELTING OF STEEL ALLOYS - ELECTROSLAG PROCESS
N64-10848 02-18

PRODUCTION OF HOT-ROLLED SEAMLESS, WELDED & BRAZED STEEL PIPE - CORROSION PREVENTIVE PIPE COVERING
JPRS-19703 N64-11129 02-17

BRITTLENESS IN STEEL IN LOW-TEMPERATURE TEMPERING
N64-11146 02-18

ELECTRON MICROPHOTOGRAPHIC STUDY OF BRITTLE FRACTURE & FAILURE PROCESS IN STEEL AND IRON
N64-11147 02-18

ELECTROSLAG REMELTING PROCESS FOR HIGH QUALITY STEEL & ALLOY PRODUCTION
JPRS-22217 N64-11419 02-17

HEAT RESISTANT ZINC AND CADMIUM CONVERSION COATINGS FOR STEEL
RIA-TR-63-3345 N64-11536 03-18

STEEL STRIP BRAZING TECHNIQUE FOR ROCKET MOTOR CASE FABRICATION
ASD-TR-7-912/7/ N64-11737 03-17

BRUSHLESS ROTATING ELECTRICAL GENERATORS FOR SPACE AUXILIARY POWER SYSTEMS - MAGNETIC STEEL
NASA-CR-52916 N64-11742 03-18

X-RAY DIFFRACTION ANALYSIS OF FIRST ORDER RESIDUAL STRESSES APPEARING DURING FINE MACHINING OF STEEL
JPRS-22306 N64-11784 03-17

VACUUM TREATMENT FOR HIGH QUALITY, LOW SILICON BALL BEARING STEEL IN METALLURGICAL FACTORY
JPRS-22390 N64-11921 03-17

STAINLESS STEEL, STEEL ALLOYS, & SUPERALLOYS FOR AIRCRAFT & MISSILES
DMIC-MEMO-177 N64-12046 03-18

CONTINUOUS VERTICAL TEEMING OF STEEL
JPRS-22594 N64-12150 03-17

NEUTRON EMBRITTLEMENT OF REACTOR PRESSURE VESSEL STEEL
NRL-5984 N64-12260 03-18

STEEL MANUFACTURING IMPROVEMENTS IN USSR
FTD-TT-63-716/1 N64-12844 04-17

REPAIR WELDING OF HEAT-TREATED LOW ALLOY STEEL WITHOUT SUBSEQUENT HEAT TREATMENT & EFFECT ON MECHANICAL PROPERTIES
FTDM-3094 N64-13123 04-18

WELDING TEST AND MECHANICAL PROPERTIES OF STEEL ALLOY
A240 N64-13250 04-18

HEAT-RESISTANT STEELS & ALLOYS - ALLOYING ELEMENTS AND USE IN GAS-TURBINE INSTALLATIONS
JPRS-22781 N64-13349 04-18

STRESS CORROSION CHARACTERISTICS OF HIGH STRENGTH NICKEL MARAGING STEELS
REPT.-0414-02-1 N64-13867 05-18

EXPLOSION CONTAINER - SPHERICAL CONCRETE SHELL WITH OUTER STEEL SKIN
LA-2901 N64-13909 05-34

PLASTIC DEFORMATION AND FAILURE OF SILVER-STEEL FILAMENTARY COMPOSITE MATERIALS
ASRL-TR-94-5 N64-14002 05-33

CORROSION PREVENTION FOR ALUMINUM, STEEL AND MAGNESIUM TRIMETAL ASSEMBLIES USING STANNOUS PYROPHOSPHATE COATINGS
RIA-63-3471 N64-14013 05-19

PREVENTION OF GALVANIC CORROSION BETWEEN MAGNESIUM AND STEEL
CCL-150 N64-14104 05-07

IRRADIATION OF STEEL ALLOYS IN REACTORS

N64-14230 06-18

ELIMINATION OR CONTROL OF FIBER ORIENTATION FOR IMPROVED FATIGUE LIFE OF STEEL BALL BEARINGS
NASA-CR-55402 N64-14284 06-17

ESTIMATION OF TOLERANCE OF ALUMINUM AND STEEL WALLS OF SPACE VEHICLE TO METEOROIDS AT 100-500 KILOMETERS ABOVE EARTH SURFACE
NASA-TN-D-1996 N64-14391 06-05

ZIRCONIUM INHIBITOR FOR RETARDING CORROSION OF LOW ALLOY STEELS EXPOSED TO LIQUID BISMUTH & LEAD ALLOYS
BNL-811/T-313/ N64-14427 06-18

LOW STRESS BRITTLE FRACTURE IN MILD STEEL
SSC-158 N64-14800 06-18

SUSTAINED LOAD TESTING AND HYDROGEN EMBRITTLEMENT OF CADMIUM PLATED NOTCH TENSILE STEEL
ERR-FW-161 N64-15588 07-18

MECHANICAL PROPERTIES OF STEELS, ALUMINUM, NICKEL, TITANIUM, AND COBALT ALLOYS FOR CRYOGENIC AEROSPACE STRUCTURES
SSD-63-271 N64-15594 07-18

ULTRAHIGH STRENGTH BAINITE AND SHEAR SPINNING & STRENGTHENING OF MARAGING STEEL
N64-15666 07-18

GLASS CLOTH-PHENOLIC LAMINATES FOR INSULATION OF CORROSION RESISTANT STEEL RUB-STRIP FACE PLATES
FGT-2735, ADD. 1 N64-15683 07-19

COLD HARDENING AND RECRYSTALLIZATION OF STEEL ALLOY UNDER IMPACT DEFORMATION
FTD-TT-62-1318/1&2 N64-16346 08-18

SURFACE TRANSFORMATIONS IN IMPACTED STEEL RODS
ERR-FW-213 N64-16631 08-18

MACHINABILITY OF STEEL PARTS IN ANNEALED AND HEAT TREATED CONDITIONS
A463 N64-16782 08-18

ULTRAHIGH PRESSURE EFFECT ON STEEL, ATOMIC OXYGEN IN UPPER ATMOSPHERE, AND SOUNDING ROCKET STUDIES
FTD-TT-63-674/1 N64-16960 09-23

CHANGES IN MICROSTRUCTURE, HARDNESS, AND ELECTRIC CONDUCTIVITY DURING CREEP IN HIGH TEMPERATURE STEELS N64-17027 09-18

ALLOYING TUNGSTEN AND MOLYBDENUM WITH PEARLITIC STEEL - HIGH TEMPERATURE ALLOY N64-17029 09-18

WORK HARDENING OF HEAT RESISTANT AND THERMAL-SHOCK RESISTANT STEEL N64-17082 09-17

METALWORKING - FASTENERS, BOLTS, & RIVETS FROM HEAT RESISTANT STEELS N64-17086 09-17

MACHINABILITY OF HEAT RESISTANT STEELS & ALLOYS IN TURNING, MILLING, AND DRILLING WITH CARBIDE-TIPPED CUTTING TOOLS N64-17096 09-17

TEMPERATURE FIELDS AND THERMOCONDUCTIVITY IN WORKPIECES & TOOLS IN MACHINING HEAT-RESISTANT STEEL ALLOYS N64-17097 09-17

PRODUCTION METHOD IN MACHINING HEAT RESISTANT STEEL & ALLOYS WITH FACE & END MILLING CUTTERS N64-17101 09-17

THERMOMECHANIC TREATMENT OF LOW ALLOY STEELS INVOLVING BAINITE REACTION
AD-430911 N64-17289 09-18

CONTROL OF STRESS CORROSION CRACKING OF STEELS BY APPLYING PROTECTIVE COATINGS
RIA-63-3890 N64-17317 09-18

MELTING, CASTING, AND MECHANICAL PROPERTIES OF URANIUM ALLOYED WITH STEELS
BM-RI-6403 N64-17496 09-18

PLASTIC DEFORMATION AND ANISOTROPY IN TITANIUM ALLOYS AND SHEET STEEL
AD-431969 N64-17642 09-17

TITANIUM SURFACE STRENGTHENING BY NITRATION, OXIDATION, AND METAL PLATING - TITANIUM PLATING OF STEEL
JPRS-23913 N64-17736 09-18

EFFECT OF TEMPERING ON NOTCH PROPERTIES OF STEEL SHEET
AMRA-TR-63-35 N64-18199 10-18

MELTING AND POURING OF RUST RESISTANT TOOL STEELS IN VACUUM INDUCTION FURNACES N64-18530 11-17

INFLUENCE OF VACUUM MELTING ON MECHANICAL PROPERTIES OF STEELS N64-18532 11-18

TURBULENT MOTION & BOUNDARY LAYER NOISE GENERATED BY VIBRATIONS OF STEEL STRUCTURES
AGARD-465 N64-18992 11-11

GAMMA RADIATION SHIELDING PROPERTIES OF FINITE STEEL SLABS
USNRDL-TR-707 N64-19116 11-23

IMPROVING EASE OF MACHINING OF STEEL CASTINGS BY INTRODUCING SODIUM SULFUR COMPOUNDS INTO MOLTEN STEEL BEFORE CASTING
FTD-TT-63-352/1&2&4 N64-19216 11-17

RADIATION EFFECT ON NITROUS OXIDE-HYDROGEN REACTION AND ULTRASONIC INSPECTION OF SHEET STEEL N64-19264 11-01

ULTRASONIC INSPECTION OF STRUCTURAL FLAWS IN SHEET STEEL N64-19266 11-17

TWO-LAYER STEEL FABRICATION - PREPARATION OF PLATES AND BLANKS, CASTING, HEATING AND ROLLING OF TWO-LAYERED INGOTS
JPRS-24422 N64-19302 12-18

RESISTANCE TO BRITTLE FRACTURE OF NOTCHED SHIP HULL STEEL IN HEAVY SECTIONS - GEOMETRIC FACTOR
SSC-160 N64-19733 12-33

ROTATING FLUID RING SEALS FOR HIGH SPEED SHAFTS IN SPACE - ELECTRON BEAM WELDING OF REX 49 STEEL
AD-429211 N64-19779 12-17

TENSILE, IMPACT, AND AXIAL FATIGUE PROPERTIES OF STEEL B-58 WING PYLON BOXES AFTER REPAIR WELDING
FGT-2956 N64-20038 13-18

STRESS CORROSION & EFFECTS OF BANDING - LITERATURE SURVEY & TESTS FOR B-58 AIRCRAFT LANDING GEAR
FGT-2957, PT. 2 N64-20039 13-18

FRACTURE TOUGHNESS OF STRUCTURAL STEEL IN LARGE SECTIONS
FGT-3064 N64-20042 13-18

AGING AND HOMOGENIZING HEAT EFFECT ON MECHANICAL PROPERTIES OF 17-4PH STEEL
FTDM-3226 N64-20068 13-18

FRICTION AND WEAR OF NICKEL-ALUMINUM ALLOYS AND SOME SULFUR-MODIFIED STEELS IN VACUUM
NASA-TN-D-2307 N64-20192 13-17

EFFECT OF SPECIMEN SIZE ON FATIGUE CRACK-STRENGTH OF CYLINDRICAL SPECIMENS OF HEAT-TREATED 4340 STEEL
NRL-6012 N64-20266 13-18

PAINT AND FILM REMOVAL FROM STEEL AND ALUMINUM SURFACES
CCL-159 N64-20321 13-17

JOINING OF STEEL AND OTHER WEAR-RESISTANT METALS TO ALUMINUM ALLOYS
FA-M64-8-1 N64-20407 13-17

ACOUSTIC DETECTION OF CRACK INITIATION IN SHARPLY NOTCHED SPECIMENS OF HIGH STRENGTH ALLOYS
NASA-RP-180 N64-21304 14-33

TEMPERATURE-TIME DATA FROM STEEL CYLINDER ENGULFED

BY AIRCRAFT-FUEL FIRE
NAVWEPS-8292 N64-21573 15-13

THERMOMECHANICAL TREATMENT OF ULTRAHIGH-STRENGTH BAINITIC STEEL
AD-439231 N64-21575 15-18

VARIATION OF LATERAL CONTRACTION RATIO OF LOW-CARBON STEEL AT ELEVATED TEMPERATURE
N64-22001 15-18

DEVICE FOR REMOVING SINTER FROM SURFACE OF STEEL HOT-ROLLED BAND WITH ABRASIVE MATERIAL
FTD-TT-62-1291/1&2 N64-22150 15-17

SCALE-, ACID-, AND HEAT-RESISTANT STAINLESS STEELS AND ALLOYS
FTD-TT-63-353/1&2&4 N64-22185 15-18

IMPROVEMENT OF PARALLEL STATIC INVERTERS AND CONVERTERS USING ANNEALING SILICON-STEEL
NASA-CR-54074 N64-22192 15-06

ULTRAHIGH STRENGTH NICKEL MARAGING STEEL SOLID PROPELLANT ROCKET MOTOR CASES
WAD-R-401-4 N64-22502 15-34

DRILLING, REAMING, AND TAPPING TECHNIQUES FOR MACHINING HEAT TREATED STEEL
A732 N64-22578 15-17

EFFECTS OF HIGH PRESSURE, HIGH TEMPERATURE HYDROGEN ON STEEL
DMIC-202 N64-22917 16-18

ELECTROCHEMICAL METHOD FOR CORROSION PROTECTION OF STEEL
FTD-TT-64-21/1&2 N64-23315 16-18

SURFACE LAYER STRUCTURE CHANGES IN STEELS & OTHER ALLOYS AFTER ELECTRIC DISCHARGE CUTTING
N64-23504 16-18

HOT GAS JET REACTION VALVE USING BOUNDARY LAYER CONTROL TECHNIQUE OF HIGH PRESSURE & TEMPERATURE GAS STREAM N64-23829 16-33

X-RAY INVESTIGATION OF FATIGUE MECHANISM OF ANNEALED AND PREHARDENED STEEL N64-23832 16-33

X-RAY INVESTIGATION OF DISTORTION OF CRYSTALLINE STRUCTURE OF STEEL AND RED COPPER SUBJECTED TO FATIGUE TESTING N64-23835 16-33

X-RAY INVESTIGATION OF EFFECTS OF SECOND AND THIRD KIND DURING FATIGUE TESTING OF SILICON STEEL
N64-23836 16-33

X-RAY INVESTIGATION OF DISTORTION OF STRUCTURE OF STEEL DURING ROLLING FRICTION N64-23838 16-33

X-RAY INVESTIGATION OF RESIDUAL STRESSES OF FIRST AND THIRD KIND DURING WEAR OF STEEL SPECIMENS IN PROCESS N64-23839 16-33

STRESS-CORROSION CRACKING IN IRON & STEEL
R/D-2721-4 N64-23966 16-33

TOUGHNESS OF CHROMIUM STEEL SHEET FOR USE IN HIGHLY STRESSED COMPONENTS AS SOLID PROPELLANT ROCKET MOTOR CASTINGS
RK-TR-64-7 N64-24013 16-18

DOUBLE-SIDED WELDING AND METHOD OF DOUBLE PASS, & ONE-SIDE ARGON-SHIELD WELDING OF STEELS
N64-24254 17-18

CORROSION OF STEEL REINFORCEMENT IN CONCRETE STRUCTURES N64-24279 17-18

CORROSION RESISTANCE OF CHROMIUM-STEEL TO MERCURY IN RANKINE CYCLE POWER SYSTEM
NASA-CR-54066 N64-25067 17-06

HEATING RATE EFFECTS ON TEMPERATURE RANGES IN ANNEALING OF STEEL - CRYSTAL FORMATION & GROWTH IN ALLOYS
FTD-TT-63-48/1&2 N64-25428 17-18

HEATING RATE EFFECTS ON TEMPERATURE RANGES IN ELECTROANNEALING OF STEEL N64-25429 17-18

MARTENSITE CRYSTAL FORMATION CENTERS IN STEEL ABOVE METASTABLE EQUILIBRIUM N64-25430 17-18

ROLE OF BACTERIA IN ELECTROCHEMICAL CORROSION OF STEEL IN SEA WATER
FTD-TT-64-393/1&4 N64-26123 18-18

CHEMICAL HEAT TREATMENT OF STEEL
JPRS-25521 N64-26258 18-18

SUITABILITY OF MATERIAL FOR DAMPING MECHANICAL VIBRATIONS IN LIGHT STEEL PLATING
REPT.-94-52 N64-26293 18-34

NOTCH STRENGTH OF LOW-ALLOY STEELS AT HIGH TEMPERATURES
NRL-1523 N64-26703 18-18

CHROMIUM-NICKEL STEELS WITH TUNGSTEN, MOLYBDENUM, AND TITANIUM FOR GAS TURBINE PARTS
N64-27149 19-18

SECTION SIZE INFLUENCE ON MECHANICAL PROPERTIES AND FRACTURE TOUGHNESS OF 7075-T6 ALUMINUM, 6A1-6V-2SN TITANIUM, AND AISI 4340 STEEL
ARMA-TR-64-05 N64-27952 20-18

CORROSION AND RESISTANCE OF, AND RADIATION EFFECTS ON STEELS AND OTHER CONSTRUCTION METALS
JPRS-26020 N64-28445 20-18

EFFECT OF COMPLEX REDUCING AGENT IN SMELTING ON MECHANICAL PROPERTIES OF CAST LOW-ALLOY MANGANESE STEEL N64-29038 21-18

INFLUENCE OF PROCESSING FACTORS ON MECHANICAL PROPERTIES OF HEAT-RESISTANT NICKEL-FREE CHROMIUM-MANGANESE STEEL N64-29044 21-18

CASTING IMPELLER BLADES OF HEAT RESISTANT STEEL FOR TURBOCOMPRESSOR N64-29045 21-18

FLOW STRESS-STRAIN RELATIONSHIPS IN TENSION TESTS OF STEEL USING BRIDGMAN METHOD
WAL-TR-834.2/10 N64-29448 21-33

TENSILE STRENGTH AND FATIGUE TESTS TO DETERMINE ENDURANCE LIMIT OF STEEL
IS-929 N64-29760 21-18

PLANE PLASTIC STRAINING OF NOTCHED STEEL AND ALUMINUM TENSION BARS
EMRL-23 N64-30621 22-33

CERAMIC FLUXES IN WELDING OF ALLOYED STEELS
JPRS-26638 N64-30656 22-17

FATIGUE LIFE OF FULLY QUENCHED STEEL COMPOSITION OF VARIOUS STRENGTH LEVELS
DTMB-1807 N64-30826 22-18

WELDING PROCEDURES AND FILLER MATERIALS FOR JOINING MARTENSITIC AND BAINITIC STEEL
ML-TDR-64-255 N64-30933 22-17

REINFORCEMENT OF SILVER WITH STEEL FIBERS
IITRI-B6020-3 N64-31029 22-18

STEEL EXTRUSION IMPROVEMENTS
NOR-63-170 N64-31162 22-18

HYDRODYNAMICS OF SUPERCAVITATING HYDROFOILS
XAR-A-45 N64-31304 22-03

EFFECTS OF VARIATIONS IN CARBON CONTENT AND ALLOYING ELEMENT CONTENT ON MECHANICAL PROPERTIES OF STEELS CONTAINING NICKEL, CHROMIUM, AND MOLYBDENUM
S-11211 N64-32055 23-18

DUCTILITY EXHAUSTION AND STATIC BRITTLE FRACTURE OF STEEL FROM PRESTRAIN AND AGING
SSC-162 N64-32664 23-18

RADIATION-INDUCED INCREASE IN DUCTILE-BRITTLE TRANSITION TEMPERATURE OF SIMULATED PRESSURE

VESSEL WALL OF STEEL REACTORS
NRL-6151 N64-32670 23-18

ELECTRIC AND CHEMICAL PROPERTIES OF BARRIER LAYER METAL OXIDES, X-RAY ANALYSIS OF STEEL CRYSTAL STRUCTURES, AND SPECTRAL ANALYSIS OF ALLOYS
JPRS-26774 N64-32842 24-18

CRYSTAL STRUCTURE AND FRAGMENTATION IN STEEL FROM FATIGUE TEST X-RAY ANALYSIS N64-32845 24-18

FATIGUE TESTS OF COLD WORKED STEELS - X-RAY ANALYSIS OF MICRODISPLACEMENT N64-32846 24-18

HIGH FREQUENCY INTERNAL FRICTION MEASUREMENTS OF HYDROGEN AND CARBON MOVEMENTS IN STEEL
D6-9586TN N64-33442 24-18

WELDABILITY OF STEELS CONTAINING NICKEL, CHROMIUM, AND MOLYBDENUM - EFFECTS OF COMPOSITION ON PHASE TRANSFORMATIONS AND TOUGHNESS OF WELDING ZONES
AD-600933 N64-33794 24-18

VACUUM DIFFUSION WELDING OF REFRACTORY METALS AND ELECTROSLAG WELDING OF HIGH ALLOY STEEL
JPRS-27115 N64-33850 24-17

WELD HEAT-AFFECTED ZONE OF CAST STEEL - EFFECT OF THERMAL CYCLING ON IMPACT STRENGTH
WVT-ID-6316 N64-33898 24-18

EXPERIMENTAL ELECTROMAGNETIC METHOD FOR NONDESTRUCTIVE TESTING OF CARBURIZED STEEL PARTS
SA-TR19-1509 N64-34002 24-17

STEEP PROGRAM
S MISSILE TEST

STEERABLE ANTENNA
STEERABLE, SCANNING ANTENNA OPERATING IN MILLIMETER WAVELENGTH
RADC-TDR-63-344 N64-12585 04-08

TWO-DIMENSIONAL, SELF-FOCUSING, STEERABLE ANTENNA ARRAY
RADC-TDR-63-418 N64-12586 04-08

ELECTRONICALLY STEERABLE ARRAY FOR SPACE VEHICLES
RADC-TDR-63-463 N64-13790 05-23

INTERPOLATION AND COORDINATE TRANSFORMATION PROGRAM PROVIDING ACCURATE LOCAL ANTENNA POINTING FROM PREDICTABLE SATELLITE POSITIONS
NASA-TN-D-2140 N64-21424 14-08

EVALUATION OF FERRITE MATERIALS FOR ELECTRONICALLY STEERABLE ANTENNA ARRAY
RADC-TDR-64-15 N64-26231 18-08

BEYOND-LINE-OF-SIGHT TRANSMISSION USING AUTOMATIC BEAM-STEERING ARRAY TECHNIQUES
REPT.-2900-491-T N64-30588 22-08

RIGHT ASCENSION OF RADIO SOURCES MEASURED BY STEERABLE PARABOLOID ANTENNAS USED AS INTERFEROMETERS
AD-444164 N64-33606 24-08

STEERING
GRADIENT TECHNIQUE FOR DETERMINATION OF OPTIMUM STEERING PROGRAMS
TDR-269/4550-20/-1 N64-13842 05-29

MATHEMATICAL ANALYSIS OF SHIP STEERABILITY
N64-20782 14-11

STEFAN-BOLTZMANN LAW
S BLACK BODY RADIATION
S HEAT TRANSFER
S TEMPERATURE

STELLAR ATMOSPHERE
DEPARTURES FROM LOCAL THERMODYNAMIC EQUILIBRIUM IN AO STAR ATMOSPHERE
NASA-TN-D-2110 N64-15971 07-05

DYNAMIC PROPERTIES OF STELLAR CORONAS & STELLAR WINDS AND INTEGRATION OF HEAT-FLOW EQUATION
N64-18280 10-28

PHYSICS OF STELLAR ATMOSPHERE N64-24660 17-05

PHYSICS OF STELLAR ATMOSPHERE N64-24661 17-05

CHEMICAL COMPOSITION OF STELLAR ATMOSPHERES
N64-24777 17-29

DIMENSIONS OF CLASS B STAR ENVELOPES
N64-24778 17-29

MOLECULAR HYDROGEN ION ABSORPTION AS SOURCE OF CONTINUOUS OPACITY IN STELLAR ATMOSPHERES
SUI-64-4 N64-24896 17-29

EFFECTS OF ERRORS IN ABSORPTION COEFFICIENT ON NON-GREY MODEL STELLAR ATMOSPHERE
SUI-64-3 N64-25098 17-29

INFLUENCE OF CHEMICAL COMPOSITION ON STRUCTURE AND METAL INDEX OF STELLAR ATMOSPHERES
NASA-RP-331 N64-33020 24-29

STELLAR ATMOSPHERIC ABSORPTION SPECTRUM - ANALYSIS OF LINE WIDTH AND INTENSITY
AD-423935 N64-33112 24-05

ULTRAVIOLET SPECTROPHOTOMETER FOR OSO-B STELLAR ATMOSPHERE OBSERVATIONS
NASA-TM-X-55079 N64-33560 24-15

STELLAR EVOLUTION
STELLAR ASTRONOMY - STAR DISTRIBUTION, EVOLUTION, KINEMATICS, AND DYNAMICS
JPRS-23821 N64-17350 09-03

COSMOLOGY - STELLAR EVOLUTION, GROUPS OF MAIN SEQUENCE STARS, ECCENTRICITY OF ELLIPTICAL ORBITS, AND INTERSTELLAR MATERIAL
JPRS-24260 N64-19342 12-03

COSMOLOGY - THEORY OF STAR FORMATION AND STELLAR EVOLUTION N64-19343 12-03

STELLAR AND GALACTIC EVOLUTION - GALACTIC ROTATION AND GRAVITY - MAGNETIC FIELDS N64-19344 12-03

COSMOLOGY - PLANETARY ORIGINS, STELLAR EVOLUTION, VARIABLE STARS, MAIN SEQUENCE STARS, SOLAR CORONA SPECTRA, AND ELEMENT FORMATION
JPRS-24358 N64-19451 12-03

PLANETARY ORIGINS AND STELLAR EVOLUTION - SOLAR SYSTEM ORIGIN N64-19454 12-03

STELLAR EVOLUTION IN DIFFUSE STAR CLUSTERS AND ASSOCIATIONS N64-19455 12-03

DEVELOPMENT OF GASEOUS NEBULA - IONIZING RADIATION ABSORPTION IN UPPER ATMOSPHERE N64-19715 12-03

ADVANCES AND PROBLEMS OF COSMOGONY - FORMATION AND INTERNAL STRUCTURE OF STARS, ATMOSPHERE OF MOON, AND PROCESSES IN EARTH N64-21127 14-03

EVOLUTION OF UNSTABLE STARS N64-21131 14-03

EVOLUTION OF UNSTABLE STARS N64-21132 14-03

SUPERNOVAE, NEUTRINOS, AND NEUTRON STARS - FINAL STAGE OF STELLAR EVOLUTION N64-22079 15-21

EVOLUTION WITH NEUTRINO LOSS OF MASSIVE STAR UNTIL ONSET OF CARBON BURNING
NASA-RP-189 N64-22090 15-21

STEADY STATE AND EVOLUTION THEORIES IN COSMOLOGY
NASA-CR-55177 N64-22765 16-03

STARS, STELLAR EVOLUTION, AND LUMINOSITY
N64-24497 17-03

STAR CLUSTERS & STAR EVOLUTION N64-24499 17-03

STELLAR EVOLUTION & STRUCTURE N64-24662 17-03

COSMOLOGY - STELLAR AND PLANETARY EVOLUTION
JPRS-24734 N64-24759 17-21

EVOLUTION OF DOUBLE STARS FROM SINGLE STARS

N64-24781 17-29

STELLAR EVOLUTION & LIBERATION OF GRAVITATIONAL ENERGY FROM CHARGED PARTICLE COLLISION
NASA-TT-F-8688 N64-25123 17-05

COMPUTATION OF TIME DEPENDENT BASIC EQUATIONS FOR STELLAR EVOLUTION THEORY
NASA-TT-F-8740 N64-25282 17-05

STELLAR EVOLUTION - HYDROGEN-BURNING PHASE OF STAR OF 7.0 SOLAR MASSES
NASA-TT-F-8741 N64-25283 17-29

EVOLUTION OF STARS AND GALAXIES
NASA-TT-F-8697 N64-26052 18-05

COSMOGONY OF PLANETARY SYSTEM AND EVOLUTION OF SUN
N64-28378 20-29

THEORETICAL MODELS OF TERMINAL STAGES OF STELLAR EVOLUTION WHERE GRAVITATIONAL RADIATION MAY BE DOMINANT
NASA-CR-58984 N64-33188 24-23

EVOLUTION OF O STARS - HYDROGEN EXHAUSTION AND GRAVITATIONAL CONTRACTION
NASA-RP-352 N64-33989 24-29

STELLAR FIELD
DISCOVERY OF ASSOCIATIONS IN STELLAR FIELD
N64-21134 14-05

EMISSION OF GRAVITATIONAL WAVES BY BODIES MOVING IN COLLAPSING STAR FIELD
NASA-TT-F-8914 N64-25788 17-29

STELLAR INFRARED RELATIVE MAGNITUDES
REPT.-5 N64-27614 19-05

STELLAR LUMINOSITY
EFFECT OF STELLAR MAGNITUDE ON STAR CALIBRATION OF BALLISTIC CAMERAS
OID-33 N64-17535 09-15

MASS-RADIUS AND MASS-LUMINOSITY RELATIONS OF STARS IN MAIN SEQUENCE OF SPECTRUM-LUMINOSITY DIAGRAM
N64-19458 12-05

STARS, STELLAR EVOLUTION, AND LUMINOSITY
N64-24497 17-05

INTERSTELLAR MATERIALS, GAS, & LUMINOSITY
N64-24498 17-05

EVOLUTION OF MAIN SEQUENCE STARS - SPECTRUM-LUMINOSITY DIAGRAMS N64-24779 17-29

DISTRIBUTION OF METEORS ACCORDING TO STELLAR MAGNITUDE
NASA-TT-F-8915 N64-26767 18-05

CORRELATION OF STELLAR MASS AND LUMINOSITY
N64-28384 20-05

THREE-DIMENSIONAL SPECTRAL CLASSIFICATION OF G AND K STARS N64-33051 24-05

STELLARATOR
ULTRAHIGH-VACUUM GAS INLET VALVE IN PRODUCTION OF NONSTATIONARY PRESSURE DISTRIBUTIONS IN THE C-STELLARATOR
MATT-225 N64-12090 03-06

RHENIUM-TUNGSTEN COILED FILAMENTS IN MAGNETIC FIELD OF STELLARATOR AND OPERATED UNDER PULSED AND STEADY CONDITIONS
MATT-229 N64-14144 05-23

MONTE CARLO METHOD OF INVESTIGATING EARLY STAGES OF IONIZATION OF NEUTRAL HELIUM PRODUCED BY LARGE AMPLITUDE MAGNETIC PUMPING IN STELLARATOR
MATT-211 N64-16562 08-24

DENSITY FLUCTUATIONS IN OHMICALLY HEATED PLASMA OF STELLARATOR RESOLVED INTO AZIMUTHALLY-PROPAGATING WAVES
MATT-224 N64-16935 09-24

MEASUREMENT OF PERPENDICULAR TEMPERATURE OF C-STELLARATOR PLASMA BY DIAMAGNETIC COIL
MATT-255 N64-21735 15-24

STELLARATOR RESEARCH, PLASMA KINETIC THEORY AND STABILITY, AND RELATED PROGRAMS IN PHYSICS AND ENGINEERING
MATT-Q-21 N64-26682 18-24

DIAMAGNETIC PERPENDICULAR TEMPERATURE MEASUREMENT OF HELIUM DISCHARGE IN STELLARATOR
MATT-278 N64-28420 20-24

CONFIGURATION OF STELLARATOR CORRUGATION FIELD TO REDUCE LOCALIZED INSTABILITIES
MATT-281 N64-28505 20-24

POWER BALANCE MEASUREMENTS FOR HELIUM DISCHARGES IN C STELLARATOR
MATT-268 N64-31472 23-24

PLASMA ION DENSITY MEASUREMENTS BASED ON ATTENUATION OF MEDIUM ENERGY ATOMIC BEAM
MATT-277 N64-32417 23-24

HYDROMAGNETIC INSTABILITY IN STELLARATOR
MATT-262 N64-32854 24-24

STEP FUNCTION
SHOCK TUBE USED AS STEP FUNCTION GENERATOR
N64-16242 08-10

OPTIMIZING FOR MINIMUM STEP RESPONSE TIME IN LINEAR SYSTEM WITH LIMITED CONTROL EFFORT
RES. PAPER-45 N64-20314 13-09

STEP-FUNCTION RESPONSE OF CARBON HUMIDITY ELEMENT
USAELRDL-TR-2379 N64-20849 14-15

DEVELOPMENT AND FABRICATION OF ELECTROMECHANICAL STEPPER
AD-602817 N64-30747 22-09

STEREOCHEMISTRY
INFLUENCE OF LIGAND ON STEREOCHEMISTRY OF BIVALENT NICKEL AND OTHER FIRST-ROW TRANSITION METAL COMPLEXES WITH SCHIFF BASES
FTR-1 N64-30884 22-07

STEREOSCOPIC PHOTOGRAPHY
AUTOMATED VERSION OF AS-11A ANALYTICAL STEREOPLOTTER - SYSTEM DESIGN AND ANALYSIS
RADC-TDR-63-539 N64-16972 09-15

STEREOPHOTOGRAPHY OF ECHO II BALLOONS FOR DETERMINATION OF DEVIATION FROM SPHERICITY
NASA-TM-X-51654 N64-20005 13-32

PROBLEM OF STEREOSCOPY IN BUBBLE CHAMBER - CORRECTION OF REFRACTION
RSIC-157 N64-20460 13-23

STEREOPHOTOGRAPHS OF MIDDLE CLOUD WAVE PATTERNS - MASS VELOCITY, PHASE VELOCITY, AND WIND SHEAR
AFCRL-64-465 N64-31372 23-21

STEREOSCOPIC VISION
S DEPTH PERCEPTION

STERILIZATION
CF PURIFICATION
CHEMICAL STERILIZATION N64-14372 06-16

STERILIZATION OF SPACE PROBE COMPONENTS
NASA-CR-56474 N64-23019 16-16

CONTROLLED CONTAMINATION OF SEALED ELECTRONIC COMPONENTS FOR STUDY OF SPACECRAFT STERILIZATION PROCEDURES
SAM-TDR-63-73 N64-25040 17-16

CHEMICAL AND RADIATION STERILIZING AGENTS - BIBLIOGRAPHY OF EFFECTS ON MICROORGANISMS
NASA-CR-58123 N64-26372 18-16

STERILIZATION OF SPACE PROBE COMPONENTS
NASA-CR-58284 N64-28220 20-16

DRY HEAT STERILIZATION OF SPACE PROBES -

BIOLOGICAL, CHEMICAL, AND PHYSICAL FACTORS INFLUENCING EFFECTIVENESS
NASA-CR-58285 N64-28764 20-16

STERILIZATION OF SPACE PROBE COMPONENTS
NASA-CR-58286 N64-28938 20-17

CONFERENCE ON BIOASTRONAUTICS - WEIGHTLESSNESS, SPACECRAFT STERILIZATION, ASTHENOPIA IN RADAR OBSERVERS, & HYPOBARIC ADAPTATION BY PERSONNEL
FTD-TT-64-556/1&2&3&4 N64-30163 21-29

STERNUM
S BONE

STEROID
HYDROXYCORTICOSTEROID LEVEL OF PATIENTS SCHEDULED FOR DENTAL SURGERY
SAM-TDR-63-11 N64-12366 03-16

ULTRAVIOLET ABSORPTION SPECTRA OF STEROID AND CATECHOLE DERIVATIVES
ARL-TDR-63-29 N64-14971 06-16

IDENTIFICATION AND SIGNIFICANCE OF PAROTID FLUID CORTICOSTEROIDS
SAM-TDR-63-86 N64-15742 07-16

THYROIDAL INFLUENCE ON SURVIVAL OF ALTITUDE-EXPOSED ANIMALS, PROTECTIVE EFFECTS OF CORTISOL
SAM-TDR-63-101 N64-15746 07-16

CONSERVATION AND PREPARATION OF ARTIFICIAL STEROIDS BY HYDROGENATION WITH SELENIUM DIOXIDE
EUR-412.F N64-17542 09-07

ADDITION REACTIONS TO DOUBLE BOND OF STERICALLY HINDERED ALPHA-OLEFINS
RTD-TDR-63-4107 N64-20359 13-07

EFFECTS OF HIGH CONCENTRATION OF CARBON DIOXIDE AND OF LIQUID DIET ON URINE EXCRETION OF STEROIDS AND CATECHOLAMINES
SAM-TDR-63-63 N64-21094 14-16

CORTICOSTEROIDS IN HUMAN PAROTID FLUID FOLLOWING ORAL HYDROCORTISONE DOSAGE
SAM-TDR-63-12 N64-21101 14-16

PAROTID FLUID CORTICOSTEROID LEVELS IN ADULT MALES ONE AND TWO HOURS AFTER RECEIVING GRADED INTRAMUSCULAR DOSES OF ADRENOCORTICOTROPIN
SAM-TDR-64-50 N64-31053 22-16

CHANGES IN HUMAN 17-KETOSTEROID URINE EXCRETION
N64-33452 24-16

STIMULATED EMISSION
AROMATIC ORGANIC LASER DEVELOPMENT
AD-429409 N64-31121 22-25

LABORATORY SIMULATION OF LUNAR LUMINESCENCE
AFCRL-64-749 N64-31740 23-10

STIMULATION
SA SENSORY STIMULATION
RADIATION DAMAGE TO OVARIES, AND ELECTRICAL STIMULATION OF HEART IN MICE - BIBLIOGRAPHY
JPRS-18045 N64-10453 01-16

IMPLANTING ELECTRIC STIMULATOR UNDER SKIN THROUGH INTERSPACE FOR CARDIOVASCULAR SYSTEM STUDY
JPRS-21909 N64-11356 02-16

MATHEMATICAL MODEL FOR NERVOUS DEFENSES AGAINST STIMULATION AND INHIBITION N64-12515 04-16

AUTOMATIC OPTIMUM FREQUENCY STIMULATOR AS MODEL FOR AUTOMATICALLY CONTROLLED TREATMENT-DIAGNOSTIC EQUIPMENT - CYBERNETICS N64-12530 04-16

ELECTRIC STIMULATION OF HEART AS TREATED FOR HEART DISEASE
JPRS-24083 N64-18400 10-16

OPTICAL QUENCHING & STIMULATION OF ZINC-SULFIDE PHOSPHORS
FTD-MT-63-41/162 N64-18753 11-25

STIMULATION DUE TO SELF-INDUCED MOVEMENT IN PRODUCTION OF ADAPTATION TO PRISMATIC DISPLACEMENT
N64-21727 15-14

TACTUAL STIMULATOR CAPABLE OF DELIVERING MICROGRAM FORCES - PSYCHOPHYSIOLOGY N64-22243 15-09

BIOELECTRIC STIMULATION INSTRUMENT FOR CONTROLLING FUNCTIONS OF NERVE-MUSCULAR SYSTEMS
FTD-TT-62-1777/1 N64-23292 16-23

AUTONOMIC NERVOUS SYSTEM REACTIONS FROM STIMULATION OF VESTIBULAR ANALYZER
N64-23762 16-16

ELECTRONIC EQUIPMENT FOR RHYTHMIC STIMULATION OF HEART N64-30392 22-16

MECHANISM OF OSMORECEPTOR STIMULATION - DETECTION OF OSMOTIC PRESSURE OSCILLATIONS
N64-32777 24-16

STIMULUS
SA AUDITORY STIMULUS
ABILITY OF HUMAN SUBJECTS TO ALIGN WITH LINEAR STIMULI
HSR-RR-62/9-MK-X N64-10447 01-14

HUMAN PERFORMANCE IN ADJUSTING LINEAR STIMULUS TO HORIZONTAL POSITION
HSR-RR-63/2-MK-X N64-10448 01-14

PREDICTION OF TRANSFER EFFECTS IMPERCEPTUAL SET - STIMULUS AND RESPONSE
AMRL-TDR-63-98 N64-17848 10-20

EFFECT OF STATOKINETIC STIMULI ON HUMAN BODY FUNCTIONS N64-23760 16-16

MEASUREMENT OF STIMULUS COMPLEXITY IN HIGH RESOLUTION SENSOR IMAGERY
AMRL-TDR-64-29 N64-26960 18-14

PLETHYSMOGRAPHY OF HUMAN VASCULAR SYSTEM RESPONSE TO COLD STIMULUS IN NOSE CAVITY
N64-31104 22-16

EFFECT OF ROTATIONAL STIMULUS ON HUMAN RESPIRATION
T-84-J N64-33496 24-16

SHOCK STIMULUS EFFECT ON GROWTH & STABILITY IN INITIATION MECHANISMS OF LOW VELOCITY DETONATIONS IN LIQUID EXPLOSIVES
AD-443796 N64-33978 24-24

STOCHASTIC PROCESS
CF RANDOM PROCESS
REDUCTION OF STOCHASTIC PROGRAMMING PROBLEM TO CONVEX LINEAR PROBLEM
ORC-63-22-/RR/ N64-10988 02-20

ERGODIC THEORY, DIOPHANTINE APPROXIMATION, AND CERTAIN STOCHASTIC SATELLITE PROBLEMS
SSD-TDR-63-234 N64-11469 03-20

ANALYTIC METHODS IN PROBABILITY THEORY - STOCHASTIC PROCESS
MH-TRANS-197 N64-11625 03-20

POLYNOMIAL STATISTICS AND ANALYTIC THEORY OF DIFFERENTIAL EQUATIONS - STOCHASTIC PROCESSES IN INDEPENDENT STATISTICS
MH-TRANS-282 N64-11626 03-20

MONTE CARLO METHODS FOR SIMULATION OF STOCHASTIC PROCESS CONTROLLED MAN-MACHINE SYSTEM - MILITARY AIRCRAFT LOGISTICS N64-11867 03-20

ASYMPTOTIC NORMAL DISTRIBUTION OF AUTOCORRELATIONS OF LINEAR STOCHASTIC PROCESS
CU-69-63-NONR-266/33/NS N64-11940 03-20

INVESTIGATION OF STATISTICAL RELAY EFFECT AUTOMATONS WHEN STOCHASTIC DISTURBANCES ARE PRESENT - CYBERNETICS N64-12461 04-20

STOCHASTIC MACHINE INSTRUCTION AND APPLICATION TO BEHAVIOR OF LIVING THINGS - CYBERNETICS
N64-12526 04-16

CONTINUOUS ESTIMATION OF SEQUENTIALLY CORRELATED STOCHASTIC VARIABLE PROCESSES
NASA-CR-53016 N64-13284 04-20

APPLICATION OF STOCHASTIC SWITCHING PROCESS TO ELECTRONIC COUNTER-COUNTERMEASURE PROBLEMS
ESD-TDR-63-186 N64-13848 05-20

OPTIMUM FILTERING OF SINGLE AND MULTIPLE STOCHASTIC PROCESSES
AFCRL-64-241 N64-15480 07-20

CONTROL OF DISCRETE STOCHASTIC PROCESSES AS FUNCTION OF COST FOR MAKING CORRECTIVE ACTIONS
AMRL-TDR-63-111 N64-17508 09-14

APPLICATION OF STOCHASTIC DIFFERENTIAL EQUATIONS TO OPTIMAL NONLINEAR FILTERING IN CONTROL THEORY
NASA-CR-53567 N64-18447 10-20

DISTRIBUTION OF SUPREMUM FOR STOCHASTIC PROCESSES WITH INTERCHANGEABLE INCREMENTS - APPLICATION OF BALLOT THEOREM
CU-42-64-NONR-266/59/NS N64-20538 13-20

STOCHASTIC MODEL FOR DETERMINING INTERFACE TEMPERATURES OF SOLIDS IN SLIDING CONTACT
RTD-TDR-63-4184 N64-21179 14-13

EXAMPLES OF STOCHASTIC DISTORTION - MONTE CARLO TECHNIQUE
SP-1584 N64-22123 15-20

MULTISTAGE STOCHASTIC INVESTMENT PROCESS - PROBABILITY THEORY
RM-4025-PR N64-22615 15-20

DYNAMIC PROGRAMMING, VARIATIONAL CALCULUS, AND ADAPTIVE & STOCHASTIC CONTROL
NASA-CR-56202 N64-24163 16-29

STATIC ACCURACY OF CLOSED SYSTEMS WITH RANDOM PROPERTIES - AUTOMATIC CONTROL SYSTEM
N64-24514 17-09

DISTRIBUTION FUNCTIONS FROM SMALL NUMBER OF OBSERVATIONS OF STOCHASTIC EVENTS
FTD-TT-62-1048/1&2&4 N64-25077 17-20

OPTIMAL CONTROL OF LONG RUNNING STOCHASTIC SYSTEMS
PIBNRI-1220-64 N64-25332 17-06

PROBLEMS IN STOCHASTIC SYSTEMS AND OPTIMAL CONTROL
JPRS-25874 N64-28343 20-23

PROBABILITY OF STABILITY IN STOCHASTIC SYSTEMS
N64-28344 20-23

ANALYSIS OF TIME SEQUENCES OR SERIES USING STOCHASTIC APPROACH FOR GEOPHYSICAL APPLICATIONS
RS-12 N64-28784 20-12

LAGRANGE MULTIPLIER TECHNIQUE FOR DETERMINING STATIONARY POINTS OF RANDOM FUNCTIONS WITH RANDOM CONSTRAINTS
NASA-CR-58593 N64-28890 20-20

STOCHASTIC INTEGRALS AND QUASI-MARTINGALES
TR-1 N64-29231 21-20

PROGRAMMING OF LARGE STOCHASTIC SIMULATION MODEL FOR MONTE CARLO ANALYSIS ON DIGITAL COMPUTER - STATISTICAL SAMPLING DESIGN
SP-1697/000/00 N64-30233 22-20

HOMING PROBABILITY IN STOCHASTIC PROCESS DUALS
SP-1017/006100 N64-30400 22-20

IMPULSE NOISE INTERFERENCE IN COMMUNICATIONS CHANNELS - INTEGRAL FUNCTION DEFINITION OF STOCHASTIC PROCESS
RR-63-3 N64-30748 22-08

MARKOVIAN SEQUENTIAL DECISION PROCESSES IN DETERMINING OPTIMAL RULES FOR STOCHASTIC SYSTEMS
TR-20 N64-31623 23-20

NUMERICAL SOLUTION OF FUNCTIONAL EQUATIONS BY LAPLACE TRANSFORM - STOCHASTIC TIME OPTIMAL CONTROL
RM-4119-PR N64-31817 23-20

WEATHER FORECASTING - STOCHASTIC PROCESSES AND USE OF MODEL ATMOSPHERE
AD-601745 N64-32059 23-22

DECISION THEORY IN STOCHASTIC SYSTEMS - MARKOV CHAIN MATRIX
REPT.-64-25 N64-32798 24-20

NONLINEAR RECURSIVE ESTIMATION PROCEDURE - APPLICATION TO SPACE NAVIGATION - STOCHASTIC APPROXIMATION METHOD
NASA-CR-58962 N64-33171 24-20

BALLOT THEOREM APPLICATION TO STOCHASTIC LAW FOR FLUCTUATION OF QUEUE
CU-45-64-NONR-266/59/NS N64-33508 24-20

STOICHIOMETRY
PHYSICAL AND MECHANICAL PROPERTIES STUDIED IN PREPARING NONSTOICHIOMETRIC METAL CARBIDES - TITANIUM CARBIDE
NASA-CR-52420 N64-10612 01-18

EPITAXY DEPOSITED STOICHIOMETRIC FILMS BY FLASH EVAPORATION
AFCRL-63-524 N64-13675 05-25

HIGH SPEED IMAGE CONVERTER CAMERA ELUCIDATION OF FORMATION OF DETONATION WAVES IN STOICHIOMETRIC MIXTURE OF HYDROGEN AND OXYGEN
NASA-TN-D-2242 N64-18732 11-26

PROPERTIES OF NONSTOICHIOMETRIC METALLIC CARBIDES
NASA-CR-58046 N64-27289 19-18

STOKES-BELTRAMI EQUATION
S LAPLACE EQUATION
S VELOCITY POTENTIAL

STOKES PARAMETER
LYMAN ALPHA RESONANT SCATTERING IN UNIFORM HYDROGEN GAS USING STOKES VECTORS AS RANDOM VARIABLES IN MONTE CARLO TYPE CALCULATION
NASA-TM-X-55062 N64-28742 20-23

STOL AIRCRAFT
VTOL/STOL AIRCRAFT - BIBLIOGRAPHY
N64-13902 05-04

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AEROPHYS. RES. REPT.-45 N64-13997 05-04

FLIGHT TEST OF PERFORMANCE, HANDLING QUALITIES, AND OPERATIONAL CHARACTERISTICS OF SLIPSTREAM STOL TRANSPORT AIRCRAFT
NASA-TN-D-2231 N64-17726 09-04

STOL AIRCRAFT FOR USE AS COMMERCIAL SHORT HAUL TRANSPORT
AIAA PAPER-64-285 N64-23350 16-04

AERODYNAMIC DESIGN AND FLIGHT DEVELOPMENT OF BREGUET 941 STOL AIRCRAFT
RAE-TRANS-1063 N64-26664 18-04

STOL AIRCRAFT TAKEOFF DISTANCE PREDICTION
R-5-64-17 N64-30828 22-04

STOMACH
CF ABDOMEN
CF ANATOMY
ELECTROGASTROGRAPHIC ANALYSIS OF GASTROINTESTINAL ACTIVITY OF STOMACH DURING DIGESTION
JPRS-21925 N64-10850 02-16

STONY METEORITE
ORGANIC COMPOUNDS IN STONY METEORITES
N64-12949 04-05

PRODUCTION CROSS SECTIONS OF TRITIUM AND RARE GASES IN OLIVINE AND STONY METEORITES
CERN-64-12 N64-18145 10-23

MICROSTRUCTURE OF STONY METEORITES
N64-21389 14-05

X-RAY INSPECTION OF FUSED CRUST OF KUNASHAK STONE METEORITE
N64-25061 17-05

ORGANIC AND INORGANIC CONSTITUENTS OF CARBONACEOUS AND OTHER SELECTED STONY METEORITES
N64-26869 18-05

LUNAR LUMINESCENT EXCITATION BY SOLAR PROTONS - BOMBARDMENT OF STONY METEORITES
N64-32077 23-28

STORABLE PROPELLANT
CF PROPELLANT STORABILITY
FUEL CELLS USING STORABLE ROCKET PROPELLANTS - ELECTROCHEMICAL CHARACTERISTICS & ELECTRODE POTENTIAL
NASA-CR-52860 N64-11108 02-06

COMPATIBILITY OF PACKAGEABLE ROCKET PROPELLANTS WITH TANK MATERIALS
PA-TR-3115 N64-12643 04-18

FUEL CELLS USING STORABLE ROCKET PROPELLANTS
NASA-CR-54116 N64-25901 18-06

FUEL CELLS USING STORABLE ROCKET PROPELLANTS
NASA-CR-54117 N64-25902 18-06

FEASIBILITY OF LONG TERM STORAGE CAPABILITY OF CRYOGENIC AND EARTH PROPELLANTS
RPL-TDR-64-75 N64-27454 19-26

FUEL CELLS USING STORABLE ROCKET PROPELLANTS
NASA-CR-54170 N64-30605 22-06

STORAGE
SA AGING
SA DATA STORAGE
SA PROPELLANT STORAGE
CF HANDLING EQUIPMENT
TRANSPORTATION VIBRATION TESTING OF PERSHING MISSILE TACTICAL SHIPPING AND STORAGE CONTAINERS
RT-TR-63-9 N64-11770 03-04

STORAGE AND LIFETIME TEST DATA FOR IMPROVEMENT OF TRANSISTOR RELIABILITY
AD-423881 N64-11774 03-09

DEVELOPMENT OF SPACE STATION, SOLAR COLLECTOR, CRYOGENIC STORAGE TANK, AND ANTENNA FOR ELASTIC RECOVERY OF SPACE EXPANDABLE STRUCTURES
NASA-CR-55022 N64-11817 03-34

TRANSPORTATION-VIBRATION TEST FOR SHIPPING AND STORAGE CONTAINERS OF PERSHING MISSILE SYSTEM
RT-TR-63-10 N64-12223 03-06

DETERIORATION OF JET FUEL THERMAL-STABILITY DURING NORMAL STORAGE, AND STABILITY ADDITIVES - LITERATURE REVIEW
RTD-TDR-63-4270 N64-15735 07-26

SPACE STORABILITY OF PRESSURIZED NITROGEN AND HYDROGEN
NASA-CR-55841 N64-16714 08-06

PROPELLANT STORABILITY IN SPACE
RPL-TDR-64-22 N64-16971 09-26

STORAGE AND INTERNAL PROPAGATION LOSSES AFFECTING EFFICIENT OUTPUT PERFORMANCE OF RUBY LASER
AFCRL-64-151 N64-19665 12-25

NONLINEAR ADAPTIVE CONTROL SYSTEMS WITH STORAGE
NASA-CR-64 N64-23031 16-06

CRYOGENIC STORAGE FOR SPACE ELECTRIC POWER SUPPLY
NASA-RP-220 N64-23914 16-30

STATIC SEALS FOR CRYOGENIC SYSTEMS - BIBLIOGRAPHY
N64-25124 17-19

SURFACE PREPARATION AND ELEVATED TEMPERATURE STORAGE EFFECTS ON ADHESIVE BONDS TO ALUMINUM
PA-TM-1255 N64-26755 18-19

FEASIBILITY OF LONG TERM STORAGE CAPABILITY OF CRYOGENIC AND EARTH PROPELLANTS
RPL-TDR-64-75 N64-27454 19-26

DIRECT VIEW STORAGE TUBE FOR INFORMATION DISPLAY IN TWO COLORS
AD-600385 N64-27540 19-09

NONLINEAR ADAPTIVE CONTROL SYSTEMS WITH STORAGE
NASA-CR-56723 N64-27811 19-06

STOCHASTIC MATRIX STORAGE & PROCESSING USING THERMOPLASTIC & OIL FILM TECHNIQUES
AFCRL-64-294 N64-30568 22-23

OPERATING, HANDLING, AND STORAGE INSTRUCTIONS FOR X-258 ROCKET MOTOR
ABL/M-126 N64-31287 22-17

STORAGE BATTERY
SA DRY CELL BATTERY
CF WET CELL BATTERY
HIGH ENERGY DENSITY BATTERIES USING NONAQUEOUS SOLVENTS
NASA-CR-55055 N64-12031 03-06

STORAGE BATTERIES FOR SPACE
NASA-CR-55645 N64-15187 07-06

STORAGE BATTERIES FOR SPACE
NASA-CR-55646 N64-15188 07-06

STORAGE BATTERIES FOR SPACE
NASA-CR-55647 N64-15189 07-06

STORAGE BATTERIES FOR SPACE
NASA-CR-55648 N64-15190 07-06

STORAGE BATTERIES FOR SPACE
NASA-CR-55644 N64-15191 07-06

STORAGE BATTERIES FOR SPACE
NASA-CR-55638 N64-15192 07-06

APPLICATION OF HARTREE-FOCK SECOND ORDER DISTURBANCES CALCULATION FOR BERYLLIUM SYSTEMS
NASA-CR-55768 N64-16012 07-06

DESIGN, DEVELOPMENT, AND MANUFACTURE OF STORAGE BATTERIES FOR FUTURE SATELLITES
NASA-CR-55797 N64-16013 07-06

DISCHARGE TESTS, STORAGE CAPACITY RETENTION, AND VOLTAGE REGULATION OF STORAGE CELLS
NASA-CR-55785 N64-16323 08-06

PERFORMANCE OF PROTOTYPE NOISE EXPOSURE METER UTILIZING ELECTROCHEMICAL STORAGE CELLS
AMRL-TDR-64-4 N64-18261 10-13

SUPERCONDUCTING VERY-HIGH-FIELD MAGNETS CAPABLE OF STARTS BY LOW-VOLTAGE STORAGE BATTERIES AND OPERATED ON MINIMUM CURRENT INPUT
N64-19386 12-23

ION EXCHANGE MEMBRANE SYNTHESIS FOR USE IN STORAGE BATTERIES
NASA-CR-53713 N64-19611 12-06

KAPITZA STORAGE BATTERIES N64-27110 19-06

COST ESTIMATE OF LEAD ACID STORAGE BATTERIES
N64-27111 19-06

POTASSIUM-MERCURY LIQUID METAL CELLS - STORAGE BATTERY N64-27112 19-06

STORAGE DEVICE
STORAGE RING BAFFLE PLATES FOR PARTICLE ACCELERATOR
LNF-63/72 N64-14449 06-23

ELECTRICAL MODEL OF NEURISTOR WITH ENERGY SOURCE, STORAGE DEVICE AND NONLINEAR DISCHARGING RESISTOR
JPRS-23046 N64-14527 06-09

GROUND SUPPORT EQUIPMENT IN AREAS OF STORAGE, TRANSPORTATION, PACKAGING, AND PRESERVATION
AID-P-63-120 N64-14839 06-13

X-RAY TELEVISION AND SCAN-CONVERSION IMAGE STORAGE SYSTEMS FOR STORAGE OF VIDEO SIGNALS ON MAGNETIC TAPES - TESTING ROCKET MOTOR CASES

WAL-TR-142.5/2-4 N64-18612 11-17

AUTOMATIC DEVICE FOR SEPARATION OF PERFORATED FAN FOLDS OF FLIGHT PROGRESS STRIP LOADER
RP-64-22 N64-20513 13-06

MIRRECHON - OPTICAL SIGNAL STORAGE DEVICE
AD-432225 N64-21387 14-09

PHOTOELECTRIC APPARATUS FOR STORING INFORMATION ON NICKEL AND COPPER TAPES
A-51035ARID N64-22495 15-09

VACUUM PROBLEM OF ELECTRON STORAGE RINGS
LNF-64/19 N64-25665 17-23

EFFECT OF COLLECTOR MESH SIZE ON WRITING BEAM AND STORED LINE WIDTHS IN HIGH RESOLUTION DIRECT VIEW STORAGE TUBE N64-30645 22-09

SERIAL AND PARALLEL FILE STRUCTURES WITH MAGNETIC TAPE AND DISK STORAGE FOR COMMAND AND CONTROL DATA PROCESSING SYSTEMS
ESD-TDR-64-519 N64-30970 22-20

REACTION BETWEEN ELECTRONS AND POSITRONS IN STORAGE RING
LNF-64/33 N64-32003 23-23

STORE
SUBSONIC WIND TUNNEL TEST OF JET STREAM SPOILER TO IMPROVE SEPARATION CHARACTERISTICS OF STORE CARRIED BENEATH WING OF HIGH SPEED AIRCRAFT
DTMB-AERO-1059 N64-12057 03-02

STORM
SA GEOMAGNETIC STORM
SA GUST
SA HURRICANE
SA MAGNETIC STORM
SA THUNDERSTORM
SA WIND
RADIOACTIVE FALLOUT IN CONVECTIVE STORMS
HNS-24 N64-11963 03-21

SEVERE STORM CLOUD DYNAMICS N64-14198 06-21

ATMOSPHERICS - INFRARED STUDIES, STORM MONITORING, AND NUCLEI CONDENSATION
AROD-45691 N64-15358 07-12

BACKSCATTER SOUNDING DURING SEVERE IONOSPHERIC STORMS N64-15438 07-12

CLASSIFICATION OF IONOSPHERIC STORM TYPES AND DEPENDENCE ON SOLAR-GEOMAGNETIC PHENOMENA N64-15447 07-28

INDEX OF IONOSPHERIC STORMINESS N64-15448 07-12

STORM WEATHER EFFECT ON AIR TRAFFIC CONTROL
NSSP-12 N64-16901 09-21

TIROS I NEPHANALYSIS COMPARED WITH CONVENTIONAL WEATHER ANALYSIS FOR FAMILY OF PACIFIC FRONTAL STORMS N64-17914 10-21

THUNDERSTORM EXCITATION OF RESONANT CAVITY BETWEEN EARTH AND IONOSPHERE N64-19703 12-12

NUMERICAL COMPUTATION OF STORM SURGE OF HURRICANE CARLA 1961 IN GULF OF MEXICO
TR-10 N64-21744 15-21

TRANSFORMATION OF POTENTIAL TO KINETIC ENERGY WITHIN STORM OR CYCLONE N64-24462 17-21

DEVELOPMENT OF AURORAL SUBSTORM N64-27200 19-12

RESEARCH ON ATMOSPHERIC CONDITION EFFECTS OF STORMS - METEOROLOGY
AFCRL-64-531 N64-27534 19-21

OBSERVATION OF ITINERANT DISTURBANCES IN LOWER AND UPPER IONOSPHERE
NASA-TT-F-8936 N64-28463 20-12

POWER SPECTRUM MEASUREMENTS OF ATMOSPHERIC TURBULENCE IN SEVERE STORMS AND CUMULUS CLOUDS
NASA-TN-D-2469 N64-30998 22-21

CONVECTIVE STORMS - CLOUD PHYSICS, DYNAMICS, AND RELATED CLOUD MODIFICATION
MR163-IR-87 N64-31197 22-21

FIREFLY PROJECT DATA ON IONOSPHERIC WINDS & SHEARS WITH SPORADIC E LAYER CORRELATIONS N64-31389 23-12

CHEMILUMINESCENT TECHNIQUES OF FIREFLY PROJECT FOR NIGHT IONOSPHERE WINDSTORM ANALYSIS IN UPPER ATMOSPHERE N64-31391 23-12

STRAIGHT WING
LOW SPEED AERODYNAMICS OF STRAIGHT AND SWEPT WINGS WITH FLOW SEPARATION
VIDYA-91 N64-21152 14-03

STRAIN
SA CRACK
SA FAILURE
SA FATIGUE
SA STRESS-STRAIN DISTRIBUTION
CF BUCKLING
CF FORCE
CF STRESS
NONLINEAR STRESS-STRAIN BEHAVIOR OF COPPER-ALUMINUM & SILVER-ALUMINUM CERMETS
CPD-65 N64-11282 02-19

X-RAY TESTING OF STRUCTURAL STRAIN ON SOLID PROPELLANT GRAINS
AD-423571 N64-12177 03-26

STRENGTH OF METAL - RATE OF STRAIN DEPENDENCE - EFFECT OF LOADING ON COEFFICIENT VISCOUS DAMPING AND YIELD STRENGTH
ARL-63-1527 N64-12305 03-18

DYNAMIC STRAINS IN RODS MEASURED WITH BIREFRINGENT STRIPS
BRL-1211 N64-12383 03-33

SENSING PLASTIC STRAIN WAVES WITH FRACTURING WIRES
SSD-TDR-63-250 N64-12706 04-15

WAVE PROPAGATION IN UNIAXIAL STRAIN - BEHAVIOR OF MATERIALS UNDER HIGH IMPULSE LOADING N64-13437 05-25

STRESS FIELD REACTION BETWEEN EDGE DISLOCATION DIPOLES AND RESULTING STRAIN HARDENING
TR-6 N64-13618 05-25

TENSION AND RATIO OF WIDTH-TO-THICKNESS STRAIN DETERMINATIONS OF MAGNESIUM ALLOYS
WAL-TR-834.12/2-3 N64-13724 05-18

SHEAR STIFFNESS OF CORRUGATED WEBS
ARC-REM-3342 N64-16533 08-33

HIGH TEMPERATURE STRESS AGING ON FATIGUE STRENGTH OF RIVETED LAP JOINTS N64-16914 09-18

STRAIN AGING OF HIGH TEMPERATURE ALLOYS WITH RESISTANCE TO PLASTIC DEFORMATION N64-17030 09-18

EFFECT OF POLYSLIP ON STRAIN HARDENING IN ALUMINUM SINGLE CRYSTALS
UCRL-11160 N64-17706 09-25

VALUES FOR LOW TEMPERATURE PLASTIC-DEFORMATION OF NIOBIUM DERIVED FROM CREEP TESTS, EQUIVALENT TO VALUES OBTAINED IN CONSTANT STRAIN RATE TESTS
ATN-64/9236/-9 N64-17781 09-18

STATISTICAL PROBABILITY OF FATIGUE FAILURE THROUGH CRACK PROPAGATION
NASA-CR-53516 N64-19257 11-33

SHEAR STRAIN TESTING OF CHEMICALLY MILLED BERYLLIUM WAFFLE PANEL
FTDM-3068 N64-20050 13-18

MECHANICAL ANISOTROPY OF TITANIUM SHEET ALLOYS IN

UNIAXIAL TENSION - INVALIDATION OF HILL THEORY
AMRA-TR-63-36 N64-20418 13-18

COMPUTATION OF SHEARING STRESSES AND STRAINS FOR FUSELAGE, WINGS, AND TAIL PLANES
N64-21697 15-33

STRESS AND STRAIN ANALYSIS OF ELASTIC STRUCTURES
PUBL.-146 N64-22246 15-33

INTERLAMINAR SHEAR OF FILAMENT-WOUND PLASTICS
QPR-2 N64-22293 15-33

CREEP AND BENDING STRAIN RATE MEASUREMENTS OF TITANIUM DIOXIDE SINGLE CRYSTALS AT HIGH TEMPERATURES
ML-TDR-64-114 N64-22564 15-25

STRAIN-AGING AND BRITTLE-DUCTILE TRANSITION CHARACTERISTICS OF CHROMIUM
IS-745 N64-23621 16-18

SHEAR STRAIN AND STRESS MEASUREMENT GAUGES FOR AUTOMATIC RECORDING OF PARAMETERS ON BURIED STRUCTURES DURING UNDERGROUND EXPLOSIONS
AFSWC-TDR-62-148 N64-23915 16-15

PLANE STRAIN FRACTURE TOUGHNESS OF MARAGING STEEL
N64-24355 17-33

STRAIN-DISPLACEMENT RELATIONS IN LARGE DISPLACEMENT THEORY OF SHELLS
SSD-TDR-64-87 N64-24878 17-23

EFFECTS OF LATERAL INERTIA ON PROPAGATION OF PLASTIC STRAIN IN CYLINDRICAL ROD
LAMS-3081 N64-26486 18-33

BUCKLING OF AXIALLY COMPRESSED ORTHOTROPIC SANDWICH CYLINDERS
REPT.-6-62-64-9 N64-27224 19-33

STRESS-STRAIN AND THERMOCONDUCTIVITY MEASUREMENTS ON GRAPHITE CYLINDERS IN TENSION AND COMPRESSION
AD-441918 N64-27339 19-17

BIAXIAL STRESS AND STRAIN DATA FOR TEN STRESS RATIOS OF POLYAMIDE NYLON
RR-TR-64-11 N64-29303 21-19

FLOW STRESS-STRAIN RELATIONSHIPS IN TENSION TESTS OF STEEL USING BRIDGMAN METHOD
WAL-TR-834.2/10 N64-29448 21-33

STRAIN FATIGUE TESTS ON THIN-WALL TUBING RELATED TO SERVICE LIFE OF NUCLEAR REACTOR FUEL ELEMENT
GEAP-4462 N64-29754 21-33

STRESS-STRAIN BEHAVIOR, SHORE-D HARDNESS, AND OXYGEN SORPTION OF POLY/N-VINYL CARBAZOLE/ AS FUNCTION OF NUCLEAR RADIATION ABSORPTION
NARF-63-14T N64-29811 21-19

THERMAL STRAIN ANALYSIS OF MANNED SPACECRAFT HEAT SHIELDS - BOUNDARY CONDITIONS, ENGINEERING MODELS, AXISYMMETRY, AND COMPUTER PROGRAM
NASA-CR-54719 N64-30355 22-13

PLASTIC BEHAVIOR OF ARC-CAST MOLYBDENUM AND ELASTIC LINEAR STRAIN HARDENING OF ZINC ALLOY BEAM
ML-TDR-64-158 N64-30692 22-18

HIGH TEMPERATURE LABORATORY FOR CREEP TESTING AND STRAIN MEASURING AND RECORDING
AD-602230 N64-32067 23-10

PRESSURE AND STRAIN TIME HISTORIES OF THIN WALLED SHELLS DURING HIGH EXPLOSIVE BLAST TESTS
PA-TM-1420 N64-32215 23-33

PLASTIC THERMAL STRESSES AND STRAINS IN FINITE THIN PLATE OF STRAIN-HARDENING MATERIAL
NASA-TN-D-2206 N64-32429 23-33

DUCTILITY EXHAUSTION AND STATIC BRITTLE FRACTURE OF STEEL FROM PRESTRAIN AND AGING
SSC-162 N64-32664 23-18

NONELASTIC STRAIN RECOVERY OF COPPER SINGLE CRYSTALS AFTER SMALL PRESTRAINS
NASA-CR-58782 N64-32885 24-33

STRAIN MEASUREMENT BY ELECTRON MICROSCOPY AND X-RAY DIFFRACTION AND HIGH TEMPERATURE EFFECT OF ANNEALING ON AGGLOMERATION
NASA-CR-59215 N64-33122 24-18

TENSILE DEVICE TO MEASURE STRESS-STRAIN ON FREE EPITAXIAL FILMS
BMPR-5 N64-33450 24-18

CREEP RUPTURE ANALYSIS OF DUCTILE MATERIALS SUBJECTED TO STRAIN HARDENING CREEP
SUDAER-196 N64-33982 24-33

STRAIN GAUGE
ELECTRICAL RESISTANCE STRAIN GAUGES - BIBLIOGRAPHY
ARL/SM-4 N64-11407 02-15

PROPAGATION OF WAVES OF PLASTIC DEFORMATION IN RODS UNDERGOING FREE FLIGHT IMPACT WITH DIFFRACTION GRATING STRAIN GAGES
N64-13438 05-23

SEMIAUTOMATIC WINDING JIG FOR ELECTRIC RESISTANCE STRAIN GAUGES
ARL/SM-119 N64-14444 06-17

EXAMINATION OF CONSTANT STRESS CANTILEVER TO LOCATE AREAS OF CONSTANT STRAIN FOR USE IN GAUGE CALIBRATION
ARL/SM-281 N64-14445 06-33

SENSITIVITY OF CRYOGENIC STRAIN GAUGES
NSP-64-26 N64-19029 11-13

STRAIN GAUGES TO DETERMINE TRANSIENT LOADS ON MULTI-DEGREE-OF-FREEDOM ELASTIC STRUCTURES
N64-20242 13-30

STRAIN GAUGE MEASUREMENT ON POLYSTYRENE SWEPTBACK BOX BEAM WITH NONSWEPT CENTER PART
NLR-TR-S.597 N64-20435 13-33

WIRE RESISTANCE STRAIN GAUGE INSTRUMENT TO MEASURE MECHANICAL STRESS AND DEFORMATION
FTD-TT-63-729/1&2&4 N64-22355 15-15

STRAIN GAUGE FOR LABORATORY STUDY OF SMALL SOIL SAMPLES UNDER STATIC & DYNAMIC LOADING
WL-TDR-64-7 N64-22700 15-15

SHEAR STRAIN AND STRESS MEASUREMENT GAUGES FOR AUTOMATIC RECORDING OF PARAMETERS ON BURIED STRUCTURES DURING UNDERGROUND EXPLOSIONS
AFSWC-TDR-62-148 N64-23915 16-15

THEORY, CONSTRUCTION, AND APPLICATIONS OF ELECTRIC WIRE RESISTANCE STRAIN GAUGES
FTD-TT-63-730/1&2 N64-27088 19-15

PRESSURE GAUGES, POTENTIOMETERS, & STRAIN GAUGES FOR COMBUSTION CHAMBER ANALYSIS
N64-28585 20-26

STRAIN GAUGE TECHNIQUES FOR DETERMINING MICROSTRAIN IN METALS AND ALLOYS - PLASTIC DEFORMATION
SSD-TDR-63-113 N64-31086 22-15

CALIBRATION OF MERCURY STRAIN GAUGES FOR MEASUREMENT OF PHYSIOLOGICAL CHANGES IN BODY PARTS
AAL-TDR-64-7 N64-31937 23-15

IMPLANTED STRAIN GAUGE SENSOR SYSTEM FOR MYOCARDIOGRAPHY
NASA-CR-59058 N64-32890 24-15

STRAIN GAUGE-JIG DEVICE FOR FAST PRECISION LEVEL AND SQUARENESS DETERMINTATIONS ON MACHINED PARTS
N64-33612 24-15

STRAIN RATE
METALLURGICAL EFFECTS OF CONVENTIONAL & EXPLOSIVE STRAIN RATES ON METAL ALLOYS
NASA-CR-52875 N64-11330 02-18

PLASTIC WAVE PROPAGATION - DISLOCATION CONCEPTS OF

STRAIN RATE EFFECTS N64-13439 05-25

EFFECT OF TEMPERATURE AND STRAIN RATE ON YIELD AND FIELD STRESSES IN NIOBIUM
ATN-64/9236/-6 N64-16596 08-25

BEHAVIOR OF NICKEL AND SOLID SOLUTIONS OF TITANIUM IN NICKEL AT HIGH TEMPERATURES AND LOW STRAIN RATES N64-17048 09-18

STRAIN RATE SENSITIVITY OF HIGH PURITY POLY-CRYSTALLINE ALUMINUM
AROD-2998-2 N64-17627 09-33

HIGH STRAIN RATE DEFORMATION BEHAVIOR OF METALS OVER WIDE RANGE OF TEMPERATURES AND RATES OF DEFORMATION
AD-432669 N64-17648 09-18

METALLURGICAL EFFECTS OF EXPLOSIVE STRAIN RATES ON MECHANICAL AND PHYSICAL PROPERTIES OF METAL ALLOYS
NASA-CR-53640 N64-18513 10-18

MATERIAL TESTING - SIMULTANEOUS RECORDING OF STRESS, STRAIN, AND TIME DATA FOR 100 MICROSECOND LOADING DURATION WITH SPLIT HOPKINSON PRESSURE BAR
AD-433700 N64-18872 11-15

HIGH TEMPERATURE DEFORMATION AND FRACTURE BEHAVIOR OF METALS UNDER HIGH STRAIN RATE CONDITIONS
PR-5 N64-27680 19-18

HIGH TEMPERATURE DEFORMATION AND FRACTURE OF METALS AT HIGH STRAIN RATE
PR-2 N64-32279 23-18

MECHANICAL PROPERTIES OF SIMULATED SOLID PROPELLANTS UNDER HIGH STRAIN RATE AND LOW TEMPERATURE ENVIRONMENT
NRL-ONR-3 N64-33273 24-26

DEFORMATION BEHAVIOR, DISLOCATION VELOCITY MEASUREMENTS, STRAIN RATE SENSITIVITY, AND YIELD POINT PHENOMENA IN VARIOUS MATERIALS - FLOW STRESS OF PURE AND DOPED ALKALI HALIDES
ARL-64-135 N64-33955 24-25

STRAIN SOFTENING
STRAIN SOFTENING TO IMPROVE REFRACTORY METAL PROPERTIES
AD-425148 N64-12062 03-18

STRAIN SOFTENING TO IMPROVE PROPERTIES OF REFRACTORY METALS
AD-434207 N64-22086 15-33

STRAIN SOFTENING OF REFRACTORY METALS - FLEXURE PROCESS FOR LOWERING TRANSITION TEMPERATURE
QPR-2 N64-30876 22-18

STRATEGY
ZERO SUM GAME BETWEEN FINITE AUTOMATON AND PARTNER USING MIXED STRATEGY - APPLICATION OF VON NEUMANN THEOREM
JPRS-19243 N64-10584 01-20

GAMES SIMULATING SIMPLE COLLECTIVE BEHAVIOR WITH PAYOFF FUNCTION DETERMINED BY NEIGHBOR PLAYERS STRATEGIES
JPRS-22519 N64-12066 03-20

SOVIET MILITARY STRATEGY
FTD-TT-62-1289/1&2&3&4 N64-15589 07-01

GAME THEORY AND OPTIMAL STRATEGIES FOR MATRIX DEFINITION N64-18515 11-20

HUMAN PERFORMANCE - TROUBLESHOOTING STRATEGY
AMRL-NEMO-P-54 N64-26852 18-14

APPLICATION OF CONTINUOUS AND DISCRETE STRATEGIES OF MINIMUM EFFORT THEORY TO GUIDANCE OF INTERPLANETARY FLIGHT
AIAA PAPER-64-664 N64-27651 19-29

OPTIMAL RENDEZVOUS STRATEGIES FOR COOPERATIVE CONTROLLED SYSTEMS
R-218 N64-30626 22-09

STRATIFICATION
STRATIFICATION OF EARTH CRUST AND UPPER MANTLE
JPRS-22886 N64-14521 06-12

AIR SWIRL & FUEL SPRAY CHARACTERISTICS FOR OPTIMUM PERFORMANCE OF STRATIFIED CHARGE ENGINE
AD-435855 N64-20098 13-27

ELECTROMAGNETIC WAVE PROPAGATION IN STRATIFIED INFINITE MEDIUM
PIBMRI-1184-63 N64-21451 14-08

PERFORMANCE CHARACTERISTICS OF STRATIFIED CHARGE TWO STROKE SPARK IGNITION ENGINE
TR-S-1 N64-26660 18-27

THERMAL STRATIFICATION OF LIQUID HYDROGEN IN ROCKET PROPELLANT TANKS
ER-6759 N64-29672 21-11

EFFECTS OF THERMAL STRATIFICATION & WIND VELOCITY ON WIND PROFILE IN GROUND LAYER
E-T-CH-63-6 N64-32131 23-21

MAGNETOATMOSPHERIC WAVES IN HORIZONTALLY STRATIFIED CONDUCTING MEDIUM
AGES-64-8 N64-32469 23-28

TURBULENT WAKES IN DENSITY STRATIFIED FLUIDS - MASS AND MOMENTUM TRANSFER IN TWO-DIMENSIONAL WAKES
R64-26 N64-33475 24-11

STRATIGRAPHY
BIOLOGY AND STRATIGRAPHY OF BOTTOM SEDIMENTS IN EQUATORIAL PACIFIC
JPRS-23403 N64-15730 07-16

STRATOSPHERE
CF ATMOSPHERE
STRUCTURE & COMPOSITION OF STRATOSPHERE AND MESOSPHERE - EARTH TEMPERATURE, AVIATION EFFECT, AND INDIVIDUAL PECULIARITIES
JPRS-21978 N64-10355 01-12

TROPICAL ZONE AIR EXCHANGE AND TEMPERATURE FIELD IN WINTER STRATOSPHERE SYSTEM OF GROWING PRESSURE FORMATIONS
JPRS-18830 N64-10794 02-21

FLUCTUATION OF ATMOSPHERIC OZONE IN LOWER STRATOSPHERE N64-10819 02-12

WINTER SEASON CLIMATOLOGY OF ARCTIC STRATOSPHERE N64-11606 03-21

POSSIBLE OSCILLATION OF WINDS IN EQUATORIAL STRATOSPHERE - SOLAR ACTIVITY EFFECT N64-11721 03-21

INERTIAL OSCILLATION OF EQUATORIAL STRATOSPHERE - SOLAR ACTIVITY EFFECT N64-11722 03-21

CLIMATOLOGY OF UPPER AIR RELATED TO DESIGN AND OPERATION OF SUPERSONIC AIRCRAFT N64-11943 03-21

RUSSIAN DESYATKA BOMBER FLYING ROCKET LAUNCHING MISSION IN STRATOSPHERE
FTD-TT-63-321/1&2 N64-12085 03-12

TROPOSPHERE AND STRATOSPHERE CIRCULATION NEAR THE EQUATOR N64-16146 08-21

TURBULENCE, DIFFUSION, AND GRAVITY WAVES IN TRANSITION REGION BETWEEN STRATOSPHERE AND IONOSPHERE
P-2774 N64-16249 08-12

STRATOSPHERIC STRUCTURE DETERMINATION FROM WIND AND TEMPERATURE MEASUREMENTS BY METEOROLOGICAL ROCKETS
ERDA-130 N64-20309 13-21

STAR DUST PROJECT - DISTRIBUTION OF SHORT-LIVED FISSION PRODUCTS IN STRATOSPHERE

DASA-1308 N64-20907 14-12

THERMALLY DRIVEN SYMMETRIC CIRCULATIONS OF MESOSPHERE AND UPPER STRATOSPHERE
P-2847 N64-21113 14-21

SEASONAL TRANSPORT PROCESSES AND EFFECT ON DISTRIBUTION OF OZONE IN STRATOSPHERE
NASA-TN-D-2106 N64-22748 16-12

EXISTENCE AND IDENTITY OF VIABLE MICROORGANISMS IN STRATOSPHERE
NASA-CR-50698 N64-22769 16-16

VARIATION IN AMOUNT OF ATMOSPHERIC OZONE AND RELATIONSHIP TO TEMPERATURE CHANGES IN STRATOSPHERE
NASA-TT-F-9016 N64-22944 16-12

METEOROLOGICAL ROCKET SOUNDINGS IN STRATOSPHERE AND MESOSPHERE
NASA-SP-49 N64-23869 16-21

STRATOSPHERE-MESOSPHERE METEOROLOGICAL ROCKET
N64-23870 16-32

FREQUENCY AND INCIDENCE OF LIGHT WINDS IN STRATOSPHERE
REPT.-1064 N64-23918 16-12

SEASONAL AND LATITUDINAL VARIATION OF ZONAL WINDS AND TEMPERATURES IN STRATOSPHERE
RM-4144-PR N64-23962 16-12

SHORT-PERIOD PULSATION OF EARTH MAGNETIC FIELD DUE TO CORPUSCULAR STEAM INTRUSION ON STRATOSPHERE
N64-24435 17-12

TWENTY-SEVEN DAY VARIATIONS IN COSMIC RAYS IN STRATOSPHERE FROM JULY 1957 TO FEBRUARY 1958
N64-24438 17-28

STRATOSPHERE, MESOSPHERE & POLAR METEOROLOGY
AFCRL-64-197 N64-24451 17-21

STRATOSPHERIC CIRCULATION & RADIATION
N64-24454 17-21

SEASONAL VARIATIONS IN STRATOSPHERIC CIRCULATION PATTERNS N64-24455 17-21

STRATOSPHERIC-TROPOSPHERIC INTERACTIONS
N64-24456 17-21

ANTARCTIC STRATOSPHERIC & TROPOSPHERIC SEASONAL TEMPERATURE VARIATIONS N64-24457 17-21

MASS & HEAT TRANSPORTS OF ANTARCTIC STRATOSPHERE
N64-24458 17-21

STRATOSPHERIC ENERGY N64-24459 17-21

STRATOSPHERIC INSTABILITY STUDY USING ATMOSPHERE MODEL N64-24460 17-21

COMPUTER METHODS IN STRATOSPHERIC ANALYSIS & WEATHER FORECASTING N64-24465 17-21

TRANSPORT PROPERTIES OF ATMOSPHERIC OZONE IN STRATOSPHERE N64-24477 17-21

RADIOACTIVE TRACER RESULT ON MIXING OF POLAR & EQUATORIAL STRATOSPHERES N64-24478 17-21

EFFECTS OF FERREL DISTURBANCES & MIDDLE STRATOSPHERIC PHENOMENA ON OZONE CONCENTRATION
N64-24481 17-21

ATMOSPHERIC OZONE IN MIDDLE STRATOSPHERE
N64-24482 17-21

OBSERVATIONS & MEASUREMENTS OF ATMOSPHERIC OZONE IN ANTARCTIC STRATOSPHERE N64-24483 17-21

GROUND MEASUREMENT OF SONIC BOOM PRESSURE FOR FIGHTER AND BOMBER AIRCRAFT AT STRATOSPHERIC ALTITUDES
NASA-TR-R-198 N64-24824 17-04

SPACE SCIENCE - SOLAR RADIATION, FLAME REACTION KINETICS, STRATOSPHERIC PLANETARY OBSERVATORY, INFORMATION SYSTEMS, AND SPACE BIOLOGY
N64-25186 17-28

AUTOMATIC FROST POINT HYGROMETER FOR MEASUREMENT OF STRATOSPHERIC DISTRIBUTION OF WATER VAPOR
R-RD-6300 N64-25830 17-15

RADIOSONDE FOR MEASURING INTENSITY OF COSMIC RAYS IN STRATOSPHERE N64-25932 18-32

STRATOSPHERIC INVESTIGATION OF COSMIC RAY INTENSITY AT YAKUTSK N64-25934 18-28

COSMIC RAY INTENSITY VARIATIONS IN STRATOSPHERE CAUSED BY CHROMOSPHERIC SOLAR FLARES
JPRS-25641 N64-26085 18-28

SOLAR ECLIPSE FLIGHT EXPEDITION FOR OBSERVATIONS FROM STRATOSPHERE
G-36439 N64-26945 18-05

DATA PROCESSING OF METEOROLOGICAL ROCKET MEASUREMENTS OF WIND, TEMPERATURE, AND DENSITY IN STRATOSPHERE
ERDA-152 N64-27564 19-21

STRATOSPHERIC CIRCULATION DATA FROM ANALYSIS OF STRATOSPHERIC SOUNDINGS OBTAINED FROM METEOROLOGICAL ROCKET NETWORKS EXPLORATION
ERDA-156 N64-27865 19-21

WIND AND TEMPERATURE FIELDS OF STRATOSPHERE
FR-2581 N64-28010 20-21

COSMIC RAY INTENSITY FLUCTUATIONS IN STRATOSPHERE CAUSED BY SOLAR ACTIVITY
NASA-TT-F-9027 N64-28826 20-28

STRATOSPHERIC TEMPERATURE PROFILES BASED ON RADIOMETRIC MEASUREMENTS FROM TIROS VII SATELLITE
NASA-TM-X-55045 N64-28930 20-21

DAILY AND MONTHLY MEAN WEATHER MAPS OF UPPER ATMOSPHERIC CIRCULATION FOR OCT. - DEC. 1963
AD-442690 N64-30060 21-21

STRATOSPHERIC CIRCULATION AND DIFFERENCES IN TEMPERATURES, GEOPOTENTIALS, AND MEAN VECTOR WINDS OVER BERLIN
QTSR-2 N64-32091 23-21

CLIMATOLOGY OF WINDS AND TEMPERATURES IN TROPICAL STRATOSPHERE
NWRF-26-0564-092 N64-33062 24-21

ROCKET MEASUREMENTS OF AEROLOGICAL CONDITIONS IN STRATOSPHERE AND MESOSPHERE
AD-444803 N64-33301 24-21

TROPICAL UPPER AIR STUDIES - PERSISTENCE OF DAILY TROPICAL STRATOSPHERIC WINDS
GMI-2562 N64-33315 24-21

STRATOSPHERE RADIATION
S ATMOSPHERIC RADIATION

STREAM
SA FREE STREAM
SA JET STREAM
CF GAS STREAM
CONTINUOUS STREAM ANALYSIS OF URANIUM SOLUTIONS BY X-RAY FLUORESCENCE - SPECTROGRAPHY
MCW-1477 N64-10431 01-07

THEORIES OF STRUCTURE AND COMPOSITION OF POLAR AURORA - TRAPPED PARTICLES AND SOLAR STREAMS DETERMINING FUNDAMENTAL CONSTANTS OF ASTRONOMY
JPRS-18276 N64-10639 01-12

TURBULENT CIRCULAR AND FLAT STREAM DEVELOPMENT IN COUNTERFLOW
FTD-TT-63-372/1&2&4 N64-11154 02-03

LIFTING SURFACE THEORY FOR WINGS AT HIGH ANGLES OF ATTACK IN MULTIPLE SLIPSTREAMS

AD-423274 N64-21319 14-03

LONG-LIVED SOLAR STREAMS IN INTERPLANETARY SPACE
NASA-TM-X-55029 N64-23928 16-28

AXISYMMETRIC POTENTIAL FLOW THROUGH SHROUDED IMPULSE DISK IN STATIC CASE - SLIPSTREAM CONTRACTION
DTMB-1857 N64-28525 20-11

CALCULATION OF HEAT FLUXES IN FLOW OF SUPERSONIC STREAMS AROUND FLAT AND RING-SHAPED SHOULDER
FTD-TT-64-364/1&2 N64-31798 23-13

STREAMLINE BODY
AERODYNAMIC LOADING ON STREAMLINED DUCTED BODIES
TAR-TR-625 N64-25080 17-02

STRECKER SYNTHESIS
ASYMMETRIC SYNTHESIS OF ALPHA-AMINO ACIDS BY STRECKER SYNTHESIS, INCLUDING PRODUCTION OF OPTICALLY ACTIVE L-ANILINE N64-18321 10-07

STRENGTH
S ELASTIC STRENGTH
S FIBER STRENGTH
S FIELD STRENGTH
S NOTCH STRENGTH

STRESS
SA CRACK
SA FAILURE
SA FATIGUE
SA SHEAR STRAIN
SA SHOT PEENING
SA STRAIN
SA TENSILE STRESS
SA THERMAL STRESS
SA TORSIONAL STRESS
CF BUCKLING
CF FORCE
CF MECHANICAL PROPERTY
CF YIELD STRENGTH
BUCKLING OF PLATES TAPERED IN PLANFORM UNDER UNIFORM STRESSES AND LOADS
ARC-R&M-3324 N64-10051 01-02

NOTCH SENSITIVITY OF ALUMINUM ALLOYS COMPARED WITH STRUCTURAL STEEL - STRESS CONCENTRATION INDEX
N64-10145 01-18

DISCRETE STRUCTURE OF ELASTIC STRESSES FORMED BY A SERIES OF DISLOCATIONS IN SILICON
N64-10712 02-25

INFLUENCE OF INITIAL STRESS ON VIBRATIONS OF SIMPLY SUPPORTED CIRCULAR CYLINDRICAL SHELLS
PIBAL-673 N64-11759 03-33

X-RAY DIFFRACTION ANALYSIS OF FIRST ORDER RESIDUAL STRESSES APPEARING DURING FINE MACHINING OF STEEL
JPRS-22306 N64-11784 03-17

STRESSES ON METAL TUBES WHEN PUSHED THROUGH DIE PLATE - DEPENDENCE ON DIAMETER DEFORMATION, WALL THICKNESS, FRICTION, PLASTICITY, AND TAPER ANGLE
JPRS-22441 N64-11873 03-17

NONLINEAR STRESS RESPONSE OF WINDOW GLASS TO STATIC PRESSURE AND RANDOM NOISE
NASA-TN-D-2025 N64-11898 03-23

RECOVERY BEHAVIOR OF COLD-WORKED METALS AT VARYING TEMPERATURES AND STRESSES
ASD-TDR-62-984 N64-12182 03-18

COMPLIANCE OF CORRUGATED SHAPES AND INFLUENCE OF HOOP STRESS
RSIC-100 N64-12275 03-13

STRESS ON RECTANGULAR TENSILE BAR WEAKENED BY SURFACE CRACKS
WAL-TR-811.8/5 N64-12379 03-33

VERTICAL MOTION OF STRESS WAVE AT VARIOUS SOIL DEPTHS DUE TO VISCOSITY AND INELASTICITY
N64-12413 04-12

STRESS PROPAGATION OF COMPRESSION AND SHEAR WAVES AT DIFFERENT EARTH LEVELS N64-12415 04-23

BEHAVIOR OF STEEL PRESSURE VESSELS UNDER BIAXIAL STRESS IN PRESENCE OF SURFACE CRACKS
RRL-TM-242 N64-12609 04-33

DYNAMIC STRESS OF VISCOELASTIC POLYMERIC MATERIALS - DEVELOPMENT OF MATERIALS, METHODS AND TECHNIQUES
RTD-TDR-63-3059 N64-12638 04-33

DISLOCATIONS IN CRYSTALS OF SALTS AND METALS AND THEIR BEHAVIOR DURING STRESS, TWINNING, AND ETCHING
JPRS-22076 N64-12757 04-25

DISLOCATION STRUCTURE IN LEAD SULFIDE CRYSTALS AS REVEALED BY CONCENTRATED STRESS LOADING AND SELECTIVE ETCHING N64-12760 04-25

STRESS & BIREFRINGENCE DURING CRYSTALLIZATION OF NATURAL RUBBER IN RELAXED STATE
ONR-TR-54 N64-12853 04-23

CREEP IN LARGE PLATES WITH CONCENTRATED FORCE TAKEN AS LINE LOAD ALONG THICKNESS OF STRAIGHT BOUNDARY
AF-AFOSR-419-63 N64-12922 04-33

DATA REDUCTION METHOD FOR CORRECTING FINITE LOADING TIMES IN VISCOELASTIC STRESS & CREEP TESTS
P-63-6 N64-12994 04-33

STIFFNESS METHOD OF STRUCTURAL ANALYSIS - COMPUTER PROGRAMMING, STRESS, THERMOELASTICITY, & ELASTIC STABILITY CALCULATIONS N64-13045 04-34

STRESS IN HEMISPHERICAL CELLULAR SUPPORT STRUCTURE WITH FLEXIBLE ELASTIC SUPPORTING SHELL
UCRL-7473 N64-13193 04-34

STRESSES & DISPLACEMENTS IN ELASTIC-PLASTIC SHELLS OF REVOLUTION WITH TEMPERATURE-DEPENDENT PROPERTIES
LMSC-6-90-62-123 N64-13325 04-34

THERMODYNAMICS & FLUID DYNAMICS OF MATTER UNDER HIGH STRESS N64-13432 05-23

FRACTURE - UNSTABLE PROGRESSIVE CRACK EXTENSION AT NORMAL SPEEDS OF STRESS APPLICATION
N64-13444 05-25

SPALL THRESHOLDS IN COPPER IN RELATION TO STRESS-TIME IN FAILURE REGION & METHOD OF INDUCING SHOCK WAVES N64-13446 05-25

STRESS WAVES IN SOLIDS - CALCULATIONS FOR HYPERVELOCITY IMPACTS N64-13524 05-23

PLANE ELASTIC STRESS PROBLEM OF RECTANGULAR TENSILE SHEET WITH EDGE CRACKS
AMRA-TR-63-22 N64-14001 05-33

RESIDUAL STRESSES, INTERNAL FRICTION, AND YOUNGS MODULUS OF URANIUM
BMI-1658 N64-14160 05-18

LINEAR PHOTOVISCOELASTIC MATERIALS - STRESS OPTIC COEFFICIENT
GALCIT-SM-63-19 N64-14242 06-23

EXAMINATION OF CONSTANT STRESS CANTILEVER TO LOCATE AREAS OF CONSTANT STRAIN FOR USE IN GAUGE CALIBRATION
ARL/SM-281 N64-14445 06-33

STRESS ANALYSIS OF 37-TUBE MODULAR STEAM GENERATOR HEAD
NAA-SR-8514 N64-14517 06-06

COMPUTER PROGRAM IN FORTRAN-2 LANGUAGE FOR STRESS ANALYSIS OF THICK SHELL OF REVOLUTION WITH AXISYMMETRIC PRESSURES, TEMPERATURES, AND LOADS
WAPD-TM-398 N64-14539 06-33

PHOTOELASTIC STRESS MEASUREMENT ON STEAM GENERATOR
NAA-SR-8515 N64-14540 06-33

STRESS ANALYSIS FOR SHELLS OF REVOLUTION WITH NONSYMMETRIC LOADS
LMSC-6-90-61-58 N64-14609 06-33

APPARATUS FOR GROUP DECISION MAKING AND COMMUNICATIONS PATTERNS UNDER CONDITIONS OF STRESS AND OVERLOAD
AD-428615 N64-14624 06-33

PRESTRESSING A TWO-LAYER STRUCTURALLY DESIGNED PRESSURE VESSEL BY CONTROLLED YIELDING OF INNER LAYER
ORNL-3546 N64-14720 06-33

PROPELLER BLADE VIBRATION AND STRESS ANALYSIS - IBM 7090 PROGRAM
TECH. REPT.-283 N64-15421 07-03

PRESTRESSED CELLULAR CERAMICS - STRENGTH, UNIAXIAL AND BIAXIAL PRESTRESSING EFFECTS, LOAD DEFLECTION OF SLAB AND DOME FABRICATION
NASA-CR-55661 N64-15539 07-19

STRESS ANALYSIS OF ELASTIC-PLASTIC SHELLS OF REVOLUTION CONTAINING DISCONTINUITIES
NASA-RP-131 N64-15668 07-33

STRESS-WAVE PROPAGATION IN ALUMINUM
BALLISTICS RES. REPT.-107 N64-15820 07-33

PROPAGATION OF ELASTIC-PLASTIC WAVES IN ROD OF FINITE LENGTH
FTD-TT-63-506/1&2 N64-16373 08-23

EFFECT OF TEMPERATURE AND STRAIN RATE ON YIELD AND FIELD STRESSES IN NIOBIUM
ATN-64/9236/-6 N64-16596 08-25

STRESS EFFECTS ON INSULATOR TO METAL TRANSITIONS IN VANADIUM COMPOUNDS
HP-11 N64-16956 09-25

LAP SHEAR PROPERTIES OF LOW TEMPERATURE CURING, HIGH TEMPERATURE RESISTANT ADHESIVE AFTER EXPOSURE TO ELEVATED TEMPERATURES
A481 N64-17139 09-18

MEASURING PRESSURE PULSES AND STRESSES ON ROTATING VANES OF AXIAL COMPRESSOR N64-17175 09-03

STRESSES IN THIN SHELLS UNDER INTERNAL PRESSURE
SSD-TDR-63-367 N64-17516 09-33

STRESSED AND DEFORMED STATE OF STIFFENED CIRCULAR CYLINDRICAL SHELL ACTED UPON BY TRANSVERSE PRESSURE AND UNIFORM AXIAL LOADS
NASA-TT-F-194 N64-17830 09-33

HELICOPTER ROTOR-BLADE DIFFERENTIAL PRESSURES, STRESSES, AND MOTIONS AS MEASURED IN FLIGHT
NASA-TM-X-952 N64-17832 09-03

STRESS EFFECT ON LUDER BAND VELOCITY AT ROOM TEMPERATURE IN NIOBIUM
ATN-64/9236/-5 N64-17866 10-25

IMPROVED FILAMENT-WOUND CONSTRUCTION FOR CYLINDRICAL PRESSURE VESSELS - STRESS ANALYSIS
ML-TDR-64-43, VOL. 1 N64-18870 11-33

INFLUENCE OF VISCOELASTIC MATERIAL PROPERTIES ON STRESS DESIGN PROBLEM - MATERIALS SCIENCE
AD-436014 N64-18883 11-33

MEASUREMENT OF SHEARING STRESSES OF SOILS WITH VIBRATION TESTING MACHINE
CRREL-90 N64-18884 11-12

RESIDUAL STRESSES IN SYMMETRICAL BODIES, FORMATION OF AUSTENITIC & MARTENSITIC STEEL, AND TEMPERING OF QUENCHED STEEL
FTD-TT-62-1762/1&2 N64-19180 11-17

STRESSES IN ROCK JOINTS AND FRACTURE DIRECTION ORIENTATIONS
BM-RI-6413 N64-19284 11-12

DYNAMIC THEORY OF LINEAR VISCOELASTIC SOLIDS USING GENERALIZED LAME & SOMIGLIANA STRESS FUNCTIONS
TR-26 N64-20133 13-23

SURFACE FAILURE OF ALUMINUM OXIDE BALLS UNDER REPEATED STRESSES APPLIED IN ROLLING CONTACT
NASA-TN-D-2274 N64-20190 13-17

CHEMISTRY, PHYSICS, AND THERMODYNAMICS OF ROCKET NOZZLE FLOW, MATERIAL STRESS, & SOLID PROPELLANTS
P-64-6 N64-20307 13-26

CIRCUMFERENTIAL STRESSES IN PRESSURE VESSEL SHELLS OF REVOLUTION
ASME-PAPER-62-PET-4 N64-20675 13-33

STRESS TO STRENGTH RELATIONSHIP IN TESTS TO FAILURE FOR COMPONENT RELIABILITY ESTIMATES
N64-20972 14-33

ACCELERATED AND CONSTANT STRESS TESTING FOR FAILURE ANALYSIS OF FILM RESISTORS AND PLANAR TRANSISTORS N64-20979 14-09

COMPARISON OF ACCELERATED AND NORMAL STRESS FAILURE MODES OF GERMANIUM TRANSISTORS
N64-20980 14-09

STRESS WAVE PROPAGATION IN DYNAMIC LOADING OF SNOW
CRREL-119 N64-21025 14-19

MIXED BOUNDARY VALUE PROBLEMS - SHRINKAGE & STRESS ANALYSIS OF PROPELLANT GRAINS
AD-600546 N64-21466 14-20

ACOUSTIC EMISSION UNDER APPLIED STRESS
ASD-TR-63-509, PT. 2 N64-21502 15-23

RESPONSE OF SUBMERGED SPHERICAL SHELLS TO INTERNAL BLAST LOADING
BRL-1231 N64-21805 15-33

CREEP RECOVERY DURING STRESS LOADING CYCLE
N64-22082 15-33

STRESS TENSOR OF PARTIALLY IONIZED GAS IN ELECTRIC AND MAGNETIC FIELDS N64-22490 15-24

EFFECT OF FLEXIBLE SURFACE RESPONSE ON REYNOLDS STRESSES NEAR FLOW BOUNDARY
REPT.-1138 N64-22536 15-11

PHOTOELECTRIC ANALYSIS OF DEAD LOAD STRESSES
RSIC-176 N64-22910 16-33

STRESSED STATE OF ROUND-SECTION FUSELAGE UNDER TORSION IN WING REGION N64-23071 16-33

STRESS IN CYLINDRICAL SHELLS OF ARBITRARY CROSS-SECTION N64-23077 16-34

RESIDUAL STRESSES AND MECHANICAL PROPERTIES OF HEAT RESISTANT ALLOYS AFTER ELECTRIC DISCHARGE TREATMENT N64-23503 16-18

OPTICAL DETERMINATION OF INTERNAL STRESSES IN FLAT PLATE STRUCTURES
RSIC-189 N64-25223 17-33

STRUCTURAL TESTS AND STRESS ANALYSES OF SYSTEM FOR NUCLEAR AUXILIARY POWER-10A /SNAP-10A/
NAA-SR-9655 N64-25977 18-34

TRIAXIAL METHOD FOR DETERMINING ELASTIC CONSTANTS OF STRESS RELIEF CORES
BM-RI-6490 N64-26090 18-33

STRESS LEVEL PROPAGATION OF FATIGUE CRACK THROUGH ROTATING CANTILEVER SPECIMEN
ARL/SM-283 N64-26471 18-18

DISTORTIONS AND STRESSES OF PARABOLOIDAL SURFACE STRUCTURES
ESD-TDR-64-55 N64-26530 18-33

MATRIX THEORY FOR FORCE, DEFLECTION, AND STRESS CALCULATION FOR LINEAR-ELASTIC SKELETAL STRUCTURES
WAPD-TM-417 N64-26611 18-34

STRESS ANALYSIS OF FLYWHEEL ACCELERATOR FOR TESTING MAN-MACHINE SYSTEMS

CE-4462-106-62U N64-26658 18-15

REDUCTION OF STRESS CONCENTRATION IN SHOULDERED SHAFTS
RSIC-212 N64-26830 18-34

EFFECT OF STRESS VARIATION ON CREEP OF SUPERALLOY AT ELEVATED TEMPERATURES
ML-TDR-64-166 N64-26904 18-33

OPTICAL MEASUREMENT OF INTERNAL STRESSES
RSIC-190 N64-27048 19-33

TRANSIENT HEAT TRANSFER AND STRESS ANALYSIS OF BASE HEAT SHIELD PANEL OF SATURN IC LAUNCH VEHICLE
NASA-CR-58045 N64-27269 19-13

STRESS ANALYSIS OF EXTERNAL FRONT WINDOW OF X-20A AIRCRAFT /DYNA-SOAR SPACE GLIDER/
SEG-TDR-64-16 N64-27446 19-34

GRAPHIC ANALYSIS OF AXIAL AND TRANSVERSE FORCES IN SANDWICH CYLINDERS WITH ANNULAR WEBS LOADED UNDER EXTERNAL UNIFORM PRESSURE
DTMB-1817 N64-27449 19-33

TENSILE, STRESS RUPTURE, CREEP, SHEAR, AND FATIGUE TESTING OF REFRACTORY ELEMENTS N64-27594 19-18

EFFECT OF COMBINED PRIOR STRESS AND ATMOSPHERIC CORROSION ON FATIGUE LIFE OF ALUMINUM ALLOYS
NASA-TN-D-2359 N64-28093 20-18

BEHAVIOR OF RHEOLOGICAL SUSPENSIONS UNDER STRESS
N64-28190 20-11

STRESS ANALYSIS OF CERAMIC TO GLASS OR METAL SEAL
MATT-293 N64-28424 20-17

STRESS AND DEFORMATION OF PLATE MOUNTED ON DEFORMED FOUNDATION N64-28495 20-33

EFFECT OF RIVETED STRINGER ON STRESS CONCENTRATION IN ELASTIC SHEET WITH CRACK OR CUT-OUT
TR-20 N64-28555 20-33

FAILURE LOAD TESTING OF PRESTRESSED CONCRETE SLABS SUPPORTED ON LOW-STRENGTH SUBSTRATE
TR-4-28 N64-28627 20-19

STRESS CONCENTRATION AND FATIGUE LIFE AT ELEVATED TEMPERATURES OF STAINLESS STEEL BELLOWS FOR SODIUM COOLED REACTOR SYSTEMS
NAA-SR-9762 N64-29352 21-33

FREE VIBRATIONS OF PRESTRESSED TOROIDAL MEMBRANE
NASA-CR-58532 N64-29556 21-33

PHOTOELASTIC METHODS USED TO STUDY INTERNAL STRESS
RSIC-240 N64-29911 21-25

STRESS CONCENTRATION AROUND CURVILINEAR OPENINGS IN WALLS OF CIRCULAR CYLINDRICAL SHELLS
N64-30424 22-33

STRESS AND LOAD PRODUCED IN EARTH CRUST AND MANTLE BY DENSITY DISTRIBUTION IRREGULARITIES AND TECTONIC MOVEMENTS OF EARTH
NASA-CR-56228 N64-30520 22-12

STRESS WAVE PROPAGATION IN FINITE VISCOELASTIC THIN ROD
AGES-64-2 N64-30562 22-33

EFFECT OF COUPLE-STRESSES ON FORCE TRANSFER COMPOSITE MATERIAL FORMED BY EMBEDDED MICROFIBERS
WVT-RR-6407 N64-30693 22-33

MECHANICAL REACTION OF PLAIN WEAVE FABRIC TO UNIFORM BIAXIAL STRESS
ML-TDR-64-239 N64-30990 22-33

HOOP AND SHEAR STRESS IN NONSYMMETRIC BALLOON SHAPES
AD-419722 N64-31174 22-04

RESIDUAL STRESSES IN THICK-WALLED CYLINDERS RESULTING FROM MECHANICALLY INDUCED OVERSTRAIN
WVT-RI-6319 N64-31227 22-33

SAINT VENANT PRINCIPLE OF STRESS TENSOR IN BEAM OR CYLINDER POINTS
MRC-472 N64-31898 23-33

EXPERIMENTAL STUDY OF TWO-DIMENSIONAL ELASTICITY USING BIREFRIGENCE OF GLASS SUBJECTED TO STRESSES
RSIC-262 N64-31930 23-33

PRESTRESSED MONOLITHIC AND SEGMENTED BRITTLE STRUCTURES - MATHEMATICAL MODELS FOR LOAD DEFLECTION CHARACTERISTICS
NASA-CR-113 N64-32431 23-33

REACTION OF OSCILLATING QUARTZ PLATES TO STEADY TENSION OR FLEXURE STRESS
REPT.-12 N64-32870 24-23

NONELASTIC STRAIN RECOVERY OF COPPER SINGLE CRYSTALS AFTER SMALL PRESTRAINS
NASA-CR-58782 N64-32885 24-33

TESTING PHYSICAL PROPERTIES OF METALS - STRESS AND STRAIN WITH HIGH RATE OF DEFORMATION
AD-448241 N64-32953 24-33

STRESS CONCENTRATION IN NONLINEAR CREEP OF CIRCULAR CYLINDRICAL SHELL
NONR-562/20//36 N64-33022 24-33

X-RAY DIFFRACTION METHOD OF RESIDUAL STRESS MEASUREMENTS ON SILICON BRONZE AND ALPHA BRASS SAMPLES SUBJECTED TO TENSILE DEFORMATION
OA-2067 N64-33075 24-33

MAGNETOSPHERE TAIL MEASUREMENTS - TANGENTIAL BOUNDARY STRESSES
NASA-CR-58845 N64-33183 24-28

DISLOCATION SUBSTRUCTURE IN HIGH PURITY BERYLLIUM DURING CYCLIC STRESSING
NASA-CR-58979 N64-33191 24-18

TURBULENT SHEAR IN JET-DRIVEN VORTEX CHAMBERS
ATN-64/9227/-5 N64-33358 24-02

PROPAGATION OF ULTRASONIC STRESS WAVES IN STRUCTURAL METALS
NOTS-TP-3622 N64-33585 24-18

DETERMINATION OF STRESS FIELD IN VISCOELASTIC MODEL BY FRINGE ORDER AND ISOCLINIC ANGLE OBSERVATION N64-33607 24-33

ALTERATIONS IN MECHANICAL PROPERTIES OF NICKEL & NICKEL, COBALT & FERROUS ALLOYS DUE TO EXPLOSIVE STRESS WAVE
NWL-1930 N64-33861 24-18

STRESS /BIOL/
STRESSES ON FLIGHT CREW IN SPACE FLIGHT
N64-11649 03-14

FLIGHT MEDICINE - VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN, HYPOXIA & METABOLISM, FAT EMBOLISM DURING DECOMPRESSION
DVL-273 N64-12751 04-16

VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN FOLLOWING STRESS ADAPTATION - EOSINOPHILE COUNT IN BLOOD & ADRENO-CORTICAL HORMONE LEVEL IN PLASMA
N64-12753 04-16

ERROR ANALYSIS OF HUMAN PERFORMANCE ON TRACKING TASKS UNDER STRESS
AD-428112 N64-14160 05-14

STIMULATION OF ORGANISM METABOLIC PROCESSES UNDER OXYGEN DEFICIENCY, MUSCULAR WORK, HEAT, COLD, OR ACCELERATION STRESS N64-15045 07-16

HUMAN INFORMATION PROCESSING UNDER TASK STRESS
ESD-TDR-63-657 N64-16088 07-14

MACHINE DISCRIMINATION OF SPEECH AND CARDIAC SOUNDS TO MEASURE PILOT STRESS BY CHANGES IN VOICE AND HEART FUNCTION SOUND
NASA-CR-53501 N64-20597 13-14

STRESS AND FATIGUE IN HUMAN BEHAVIOR DURING ISOLATION FROM EXTERNAL STIMULI
JPRS-24961 N64-21288 14-16

CARDIOVASCULAR EFFECTS OF REFEEDING STRESS FOLLOWING STARVATION
TM-62-6 N64-21553 15-16

STRESS AND FATIGUE UNDER ISOLATED CONDITIONS
FTD-TT-63-1015/1&2&4 N64-21938 15-14

YOUNGS MODULUS & BREAKING STRENGTH OF BODY TISSUES
AMRL-TDR-64-23 N64-22317 15-16

INFORMATION PROCESSING IN COMPLEX TASK UNDER SPEED STRESS
REPT.-1129 N64-22557 15-14

STRESS EFFECT ON RADIOSENSITIVITY OF RATS AND EFFECTIVENESS OF RADIOPROTECTIVE ACTION OF MERCAMINE
JPRS-25130 N64-23255 16-16

LANDING IMPACT STRESS ON ANIMALS IMMERSED IN WATER
N64-23763 16-16

ASCORBIC ACID PROPHYLAXIS AND TREATMENT FOR ILLNESS, TRAUMA, EXPOSURE TO COLD WEATHER, AND EXTREME PHYSICAL EXERCISE
AD-429526 N64-25323 17-16

EFFECT OF ANESTHESIA ON STRESS REACTION OF RAT PITUITARY AND ADRENAL GLANDS N64-31344 23-16

EFFECT OF STRONG STRESS AND HIGH DOSES OF ADRENOCORTICOTROPIN HORMONE ON MORPHOPHYSIOLOGICAL REORGANIZATION OF RAT ADRENAL GLAND
N64-31345 23-16

KETONE PRODUCTION AS HUMAN REACTION TO BIOLOGICAL STRESSES - COLD, EXERCISE, AND STARVATION
APR-2 N64-32144 23-16

CHANGE IN FUNCTION OF THYROID GLAND DURING STRESS
JPRS-26911 N64-32748 24-16

HUMAN ADAPTATION TO ALTITUDE, HEAT, COLD, PHYSICAL EXERTION, ACCELERATION, RADIATION, IN SPACE FLIGHT
NASA-TT-F-9158 N64-33410 24-14

STRESS ANALYSIS

GENERAL APPROXIMATE NUMERICAL METHOD FOR STRESS ANALYSIS OF THIN SHELLS
GD/A-63-0761 N64-10076 01-23

LAGRANGE EQUATION OF DISLOCATION MOTION IN EXTERNAL STRESS FIELD OF ELASTIC MEDIUM
JPRS-17473 N64-10680 02-23

STRESS ANALYSIS OF STRAIGHT-LINE DISLOCATION NEAR PLANE OF DISCONTINUITY OF ELASTIC CONSTANTS IN UNLIMITED ANISOTROPIC MEDIUM N64-10734 02-25

STRESSES IN SEGMENT OF ISOTROPIC TRUNCATED CONICAL SHELL WITH LINEARLY VARYING THICKNESS SUBJECTED TO LATERAL NORMAL LOAD
NASA-CR-52882 N64-11336 02-33

STRESS OF SHOCK AND VIBRATION WAVES ON STRUCTURES ABOVE AND BELOW GROUND
AD-422046 N64-12407 04-01

APPROXIMATE METHODS FOR INVERTING LAPLACE TRANSFORMS IN VISCOELASTIC STRESS ANALYSIS
N64-13256 04-33

FAILURE MECHANISMS OF THIN FILM PLATES DUE TO TEMPERATURE, HUMIDITY, AND ELECTRICAL STRESSES
RADC-TDR-63-474 N64-13785 05-25

MATHEMATICAL ANALYSIS OF STRESSES IN COMPOSITE MATERIALS - BIBLIOGRAPHY
S-42 N64-14023 05-34

COMPUTER PROGRAM IN FORTRAN-2 LANGUAGE FOR STRESS ANALYSIS OF THICK SHELL OF REVOLUTION WITH AXISYMMETRIC PRESSURES, TEMPERATURES, AND LOADS
WAPD-TM-398 N64-14539 06-33

STRESSES IN MITRED PIPE JOINT DUE TO INTERNAL PRESSURE OR PURE BENDING
NAL-TN-SA-4-63 N64-18393 10-33

STRESS ANALYSIS OF RECTANGULAR GRID OF PERPENDICULAR STRUCTURAL BEAMS SIMPLY SUPPORTED AT ENDS UNDER BENDING, SHEARING, AND TORSION
ORNL-3535 N64-18415 10-33

LINEAR STRESS ANALYSIS OF HOMOGENEOUS, ISOTROPIC, THERMORHEOLOGICALLY SIMPLE VISCOELASTIC MATERIALS
TR-24 N64-28564 20-13

STATIC AND DYNAMIC PROPERTIES OF PHOTOELASTIC MATERIALS AND POTENTIAL USE IN DYNAMIC STRESS ANALYSIS
NRL-5940 N64-28873 20-11

PLASTIC THERMAL STRESSES AND STRAINS IN FINITE THIN PLATE OF STRAIN-HARDENING MATERIAL
NASA-TN-D-2206 N64-32429 23-31

STRESS CALCULATION

APPROXIMATIONS DETERMINATION OF BENDING MOMENTS, STRESSES AND STRAINS IN THIN RECTANGULAR PLATE
DVL-262 N64-10974 02-33

SHEAR LAG ANALYSIS USING MAXWELL-MOHR ANALYSIS ADAPTED BY MATRIX METHOD FOR DIGITAL COMPUTER SOLUTION
NASA-CR-52884 N64-11332 02-20

THIN FLEXIBLE PRESSURE VESSELS - STRESS EQUATIONS FOR AXISYMMETRIC BALLOON AND DETERMINATION OF SHAPE OF FREE BALLOON
AFCRL-63-951 N64-20122 13-04

STRESS CALCULATION FOR OPEN CYLINDRICAL SHELL UNDER CENTRIFUGAL FORCES
RSIC-155 N64-20458 13-33

VARIATIONAL THEOREM FOR STRESSES AND MERIDIONAL SLOPES IN AXISYMMETRIC SHELLS WITH LARGE DEFORMATIONS
ME-836-6310 N64-20774 14-31

IDEALIZING COMPLEX AIRCRAFT STRUCTURES INTO DISCRETE ELEMENTS FOR MATRIX STRESS ANALYSIS
N64-20941 14-31

FORMULAS FOR STRESS CALCULATION FOR ELLIPTICAL REINFORCEMENT RING
PIBAL-684 N64-22048 15-33

DETERMINATION OF PLANAR STRESS BY AXIAL PATTERN METHOD OF CRYSTAL OPTICS
RSIC-180 N64-25219 17-33

STRESS CALCULATION FROM DEFORMATION OF PRISMATIC BAR SUBJECTED TO TWISTING N64-28484 20-33

CALCULATION OF STATIC STRESS IN GEAR TEETH
N64-28485 20-33

STRESS CORROSION

STRESS CORROSION CRACKING OF HIGH STRENGTH ALLOYS
REPT.-0414-01-9 N64-10542 01-33

STRESS-CORROSION CRACKING OF TITANIUM ALLOY AND NICKEL MARAGING STEELS WITH COATINGS EVALUATION
LO414-01-22 N64-10543 01-33

SALT STRESS CORROSION SUSCEPTIBILITY OF COMMERCIAL TITANIUM ALLOY SHEETS
NASA-TN-D-2011 N64-11245 02-11

STRESS CORROSION CRACKING IN HIGH STRENGTH FERROUS ALLOYS
FZM-2690 N64-12665 04-11

STRESS-CORROSION CRACKING OF METAL ALLOYS IN ANNEALED, QUENCHED, AND AGED CONDITIONS
LO414-01-23 N64-12815 04-11

STRESS-CORROSION CRACKING TESTS AND RESULTS OF VACUUM CAST NICKEL-COBALT-STEEL WITH LOW CARBON
L0414-01-24 N64-13121 04-18

STRESS-CORROSION CRACKING OF HIGH STRENGTH ALLOYS - TITANIUM AND NICKEL ALLOYS
L0414-01-21 N64-13591 05-18

STRESS CORROSION CHARACTERISTICS OF HIGH STRENGTH NICKEL MARAGING STEELS
REPT.-0414-02-1 N64-13867 05-18

STRESS-CORROSION CRACKING OF HIGH STRENGTH NICKEL ALLOY STEELS
FZM-2951 N64-14617 06-18

STRESS-CORROSION IN 18-PERCENT NICKEL MARAGING STEEL OF VARYING COMPOSITION IN DIFFERENT ENVIRONMENTS AND WITH THREE TYPES OF COATING
REPT.-0414-02-2 N64-15376 07-18

STRESS-CORROSION CRACKING OF HIGH STRENGTH ALUMINUM ALLOYS
NASA-CR-55857 N64-16734 08-18

CONTROL OF STRESS CORROSION CRACKING OF STEELS BY APPLYING PROTECTIVE COATINGS
RIA-63-3890 N64-17317 09-18

STRESS CORROSION CRACKING OF HIGH STRENGTH STEELS
L0414-02-6 N64-18622 11-18

STRESS CORROSION OF TITANIUM ALLOYS IN ACID MEDIA
FTD-MT-63-123 N64-18678 11-18

STRESS CORROSION CRACKING OF NICKEL MARAGING HIGH STRENGTH STEELS
L0414-02-5 N64-19138 11-18

STRESS CORROSION & EFFECTS OF BANDING - LITERATURE SURVEY & TESTS FOR B-58 AIRCRAFT LANDING GEAR
FGT-2957, PT. 2 N64-20039 13-18

STRESS CORROSION CRACKING OF HIGH STRENGTH NICKEL ALLOYS & STEELS
REPT.-0414-02-3 N64-20572 13-18

MECHANISM OF STRESS CORROSION OF ALUMINUM ALLOY
REPT.-5-0E-33 N64-21498 15-18

EFFECT OF CHEMICAL COMPOSITION ON ARTIFICIAL AGE HARDENING & STRESS CORROSION CRACKING OF HIGH STRENGTH ALUMINUM-ZINC-MAGNESIUM-COPPER ALLOYS
RSIC-177 N64-21912 15-18

STRESS CORROSION CRACKING OF HIGH STRENGTH STEEL
L0414-02-7 N64-22532 15-18

STRESS-CORROSION CRACKING IN IRON & STEEL
R/D-2721-4 N64-23966 16-33

STRESS-CORROSION CRACKING OF AUSTENITIC STAINLESS STEELS IN ACID CHLORIDE MEDIA
AROD-2721-3 N64-23967 16-18

FRACTURE TOUGHNESS AND STRESS CORROSION OF 9 PERCENT AND 18 PERCENT NICKEL MARAGING STEELS AND OTHER HIGH STRENGTH STEELS N64-24367 17-33

TENSILE STRENGTH AND FATIGUE TESTS AND STRESS CORROSION TESTS OF BOLTS AND OTHER SAMPLES OF 18 PERCENT NICKEL MARAGING STEEL N64-24371 17-18

STRESS CORROSION REACTION EFFECTS ON STRENGTH OF GLASS FIBER
AD-601344 N64-25685 17-19

STRESS CORROSION OF ALUMINUM ALLOYS
ADN-02-16-63.1 N64-26040 18-18

STRESS CORROSION CRACKING OF NICKEL MARAGING AND MARTENSITIC HIGH STRENGTH STEELS
L0414-02-8 N64-26873 18-33

RELATION OF DISSOLUTION KINETICS AND RESISTANCE TO PITTING CORROSION USING ELECTROCHEMISTRY
TR-4 N64-28160 20-18

STRESS CORROSION OF ALUMINUM ALLOYS
QR-2 N64-28541 20-33

STRESS CORROSION TESTS OF WROUGHT MAGNESIUM-LITHIUM ALLOY
N65-1-1 N64-31292 22-18

STRESS-CORROSION CRACKING OF MARAGING, LOW ALLOY MARTENSITIC, AND HOT WORKED DIE STEELS
REPT.-2914 N64-32933 23-18

HOT-SALT STRESS-CORROSION CRACKING OF TITANIUM ALLOYS - SUPERSONIC TRANSPORT APPLICATION
NASA-CR-117 N64-32829 24-18

STRESS CORROSION CRACKING OF STAINLESS STEEL EXPOSED IN DILUTE CHLORIDE SOLUTIONS
DP-907 N64-33241 24-18

STRESS CORROSION CRACKING IN FACE CENTERED CUBIC METALS
AFOSR-J1128 N64-33893 24-18

STRESS DISTRIBUTION
STRESS DISTRIBUTION IN COMPRESSOR BLADES DURING VIBRATION
FTD-TT-62-740/162 N64-11151 02-33

REJECTION OF STRESS DIFFERENCES AS CAUSE OF EARTH FLATTENING
NASA RP-88 N64-11378 02-12

STRESS DISTRIBUTION IN VICINITY OF CRACK IN CENTER OF PLATE MATERIALS
DMIC-MEMO-178 N64-11761 03-33

STRESS DISTRIBUTION OF DYNAMIC LOAD ON UNDERGROUND SHELTER AND TUNNEL N64-12410 04-10

ELASTIC STRESS DISTRIBUTION IN THIN, FINITE-WIDTH ORTHOTROPIC PLATES WITH CENTRAL CRACKS - SOLUTION BY USE OF FINITE FOURIER TRANSFORMS
NASA-TN-D-2260 N64-17161 09-33

DETERMINING STRESS DISTRIBUTION IN THIN WALLED CYLINDRICAL AND SPHERICAL PRESSURE VESSELS WITH CIRCULAR NOZZLES
NASA-CR-53580 N64-18445 10-33

NUMERICAL INTEGRATION OF INTEGRAL EQUATION IN MIXED-BOUNDARY ELASTICITY PROBLEM - STRESS FIELD IN CYLINDER WITH PENNY-SHAPED CRACK
AD-437920 N64-20305 13-20

STRESS DISTRIBUTION IN SWEPTBACK WINGS
NRL-TM-S.600 N64-20434 13-33

STRESS AROUND UNREINFORCED HOLES IN INFINITE ELASTIC SHEETS
ARC-R&M-3354 N64-25202 17-33

STRESS DISTRIBUTION IN VICINITY OF CRACK IN CENTER OF PLATE
DMIC-MEMO-190 N64-26912 18-33

ADHESIVES IN CONSTRUCTION AND AIRCRAFT STRUCTURES, AGE HARDENING, STRESS DISTRIBUTION, CORROSION, AND NONDESTRUCTIVE TESTING
WGLR-1/1964 N64-27228 19-20

INTERIOR STRESS DISTRIBUTION IN EDGE-LOADED, ELASTIC, THIN WALLED SHELLS WITH LOAD WAVELENGTH LESS THAN RADIUS OF CURVATURE
REPT.-6-90-63-84 N64-29680 21-33

PHOTOELASTIC STRESS DISTRIBUTION MEASUREMENTS IN STRUCTURAL ELEMENTS
RSIC-244 N64-29980 21-18

PLANE STRESS DISTRIBUTION IN VARIABLE THICKNESS PLATES BY ELASTICITY THEORY N64-30425 22-33

STRESS DISTRIBUTION IN THICK WALLED CYLINDRICAL SHELLS - THREE DIMENSIONAL PHOTOELASTICITY
AFWL-TDR-64-65 N64-32143 23-33

STRESS FUNCTION
DEFECTS IN SILICIDE COATING ON MOLYBDENUM AS FUNCTION OF STRESS CHANGE WITH TEMPERATURE VARIATION

JPRS-21758 N64-10122 01-33

ROLE OF FUNCTIONAL STRESS IN LOCALIZATION OF RADIATION SICKNESS
JPRS-22586 N64-12576 04-16

STRESS-INTENSITY FACTORS FOR SINGLE-EDGE-NOTCH TENSION SPECIMEN BY BOUNDARY COLLOCATION OF STRESS FUNCTION
NASA-TN-D-2395 N64-26418 18-33

EVALUATION OF ENERGY METHOD USING FINITE DIFFERENCES FOR DETERMINING THERMAL MIDPLANE STRESSES IN PLATES
NASA-TN-D-2439 N64-28331 20-33

EQUATIONS FOR CALCULATING DENSITY OF ICE AS FUNCTION OF TEMPERATURE AND STRESS
SR-64 N64-32519 23-25

STRESS MEASUREMENT
SA PHOTOELASTIC STRESS MEASUREMENT
APPARATUS FOR STRESS-RUPTURE TESTING OF FILAMENTS UNDER CONTROLLED CONDITIONS OF ATMOSPHERE, STRESS, AND TEMPERATURE
NASA-RP-165 N64-20019 13-15

SHEAR STRAIN AND STRESS MEASUREMENT GAUGES FOR AUTOMATIC RECORDING OF PARAMETERS ON BURIED STRUCTURES DURING UNDERGROUND EXPLOSIONS
AFSWC-TDR-62-148 N64-23915 16-15

STRESSES IN DIE CAST ALUMINUM BLADES OPERATING IN AXIAL FLOW COMPRESSOR ENVIRONMENT OF URANIUM HEXAFLUORIDE
GAT-432 N64-24217 16-06

MEASUREMENT OF STRESS IN MACHINERY COMPONENTS USING BASELESS WIRE PICKUP
FTD-TT-63-731/1&2 N64-24243 17-33

DETERMINATION OF PLANAR STRESS BY AXIAL PATTERN METHOD OF CRYSTAL OPTICS
RSIC-180 N64-25219 17-33

ULTRASONIC WAVES FOR INTERNAL STRESS MEASUREMENT IN METAL STRUCTURES
AD-438449 N64-25839 18-33

COMPUTER PROGRAM FOR PIPING FLEXIBILITY ANALYSIS - EFFECTS OF PRESSURE, THERMAL EXPANSION, UNIFORM LOADING, AND CONCENTRATED LOADING
LA-2929 N64-28720 20-17

STRESS ANALYSIS OF EXPLOSIVE FORMING TANK BY IMPULSE METHOD
NASA-CR-58365 N64-29224 21-33

PEAK LOAD SELF-RECORDING ON-STRUCTURE STRESS GAUGE
WL-TDR-64-11 N64-30827 22-15

STRESS ANALYSIS IN STRUCTURES SUBJECT TO CREEP
TR-35 N64-30917 22-33

ROCK STRESS MEASUREMENT WITH HYDRAULIC EQUIPMENT AND FLAT SLOTS
BM-RI-6537 N64-31254 22-15

TENSILE DEVICE TO MEASURE STRESS-STRAIN ON FREE EPITAXIAL FILMS
BMPR-5 N64-33450 24-18

STRESS RATIO
BIAXIAL STRESS AND STRAIN DATA FOR TEN STRESS RATIOS OF POLYAMIDE NYLON
RR-TR-64-11 N64-29303 21-19

STRESS RELAXATION
MEASUREMENT OF RANDOM BOND SCISSION IN RUBBER NETWORKS BY MEASUREMENT OF STRESS RELAXATION AT CONSTANT EXTENSION
ONR-TR-RLT-71 N64-16965 09-19

METAL FATIGUE AND PLASTIC DEFORMATION - HARDENING AND STRESS RELAXATION HYPOTHESES
ONERA-TM-27/1963/ N64-19546 12-25

RANDOM SCISSION BY STRESS RELAXATION IN POLYSULFIDE & OTHER POLYNETWORKS
ONR-TR-RLT-74 N64-20466 13-19

TENSILE STRESS RELAXATION TEST FOR MECHANICAL PROPERTIES OF VISCOELASTIC MATERIALS
ABL/X-106 N64-21115 14-34

STRESS RELAXATION BEHAVIOR OF NONLINEAR VISCOELASTIC SOLIDS
AD-434682 N64-23141 16-25

STRESS RELAXATION IN CAST ALLOYS
JPRS-25391 N64-25197 17-18

MECHANICAL PROPERTIES OF STRESS-RELIEVED ALUMINUM ALLOY
QR-4 N64-31321 22-18

DEFORMATION OF IRON AND HIGH PURITY CUBIC CRYSTALS, STRESS RELAXATION OF ZONE REFINED IRON, AND BAUSCHINGER EFFECT PHENOMENON
AD-447829 N64-33670 24-25

STRESS RUPTURE
EFFECTS OF TWO NICKEL ALLOY BRAZE COATINGS, HEAT TREATMENTS, AND PROCESSING VARIABLES ON RUPTURE STRENGTH OF SHEET METALS
NASA-TN-D-1880 N64-10334 01-18

STRESS-RUPTURE AND CREEP PROPERTIES OF REFRACTORY METALS TO 2800-DEG C AND IN PREPARED ATMOSPHERES
TM-63-4-12 N64-11984 03-18

HIGH TEMPERATURE REACTOR MATERIAL STRESS RUPTURE CREEP TESTING, AND EFFECT OF RADIATION ON CREEP-RUPTURE PROPERTIES OF HIGH TEMPERATURE ALLOYS
GEMP-31A N64-14420 06-18

APPARATUS FOR STRESS-RUPTURE TESTING OF FILAMENTS UNDER CONTROLLED CONDITIONS OF ATMOSPHERE, STRESS, AND TEMPERATURE
NASA-RP-165 N64-20019 13-15

VANADIUM ALLOY STUDIES TO IMPROVE CREEP AND STRESS RUPTURE PROPERTIES
IITRI-B6021-1 N64-20565 13-18

STRESS-RUPTURE AND CREEP ANALYSIS OF RHENIUM, TUNGSTEN, & ARC CAST MOLYBDENUM
GEMP-35A N64-22208 15-33

HIGH TEMPERATURE TENSILE AND STRESS-RUPTURE PROPERTIES OF INCO 713C SHEET - NICKEL-BASE ALLOY
ASD-TDR-62-869, PT. II N64-22284 15-18

CRITICAL STRESS INTENSITY PARAMETER OF 300-GRADE 18-NICKEL MARAGING STEEL AS INFLUENCED BY SPECIMEN TYPE AND THERMAL AND MECHANICAL TREATMENT
TR-3 N64-25396 17-18

TENSILE, STRESS RUPTURE, CREEP, SHEAR, AND FATIGUE TESTING OF REFRACTORY ELEMENTS N64-27594 19-18

EQUIPMENT FOR CYCLIC HEATING OF STRESS RUPTURE SPECIMENS
NLR-TM-M.2102 N64-28117 20-17

LONG TERM TENSILE STRESS RUPTURE STRENGTH OF ALLOYS CALCULATED FROM RESULTS OF STATIC TENSILE STRENGTH TESTS AT ELEVATED TEMPERATURES
TR-1773 N64-28628 20-18

TENSILE & STRESS-RUPTURE DATA ON HIGH TEMPERATURE NICKEL ALLOY
REPT.-2-53431/3R-478 N64-31708 23-18

STRESS-STRAIN DISTRIBUTION
ELASTIC STRESSES & STRAINS FROM PRESSURE LOADING AND RADIAL TEMPERATURE GRADIENT FOR CIRCULAR DISK, CYLINDER, AND SPHERE
SSD-TDR-63-227 N64-12268 03-33

STRESS-STRAIN DISTRIBUTION IN SOLID PROPELLANT BONDED TO RIGID PLATE AND VISCOELASTIC STRESS ANALYSIS WITH LAPLACE TRANSFORMS
P-63-13 N64-13254 04-33

STRESSES, STRAINS, AND DISPLACEMENTS IN MULTIAXIAL TEST OF CIRCULAR DISK OF SOLID PROPELLANT BONDED TO RIGID PLATES N64-13255 04-24

STRESS-STRAIN BEHAVIOR OF AROMATIC POLYAMIDE/HT-1/ AND POLYESTER/DACRON/ - ORGANIC FIBERS
SR-44641 N64-19007 11-19

STRESS-STRAIN DISTRIBUTION ON THIN WALLED CONICAL WING SHELLS USING VLASOV EQUATION
N64-23072 16-33

TENSILE AND COMPRESSIVE STRESS-STRAIN PROPERTIES OF STRETCHED ALUMINUM ALLOY PLATES
ML-TDR-64-105 N64-25241 17-18

STRESS-STRAIN BEHAVIOR OF STRONTIUM ZIRCONATE SINGLE CRYSTALS
BMPR-3 N64-26268 18-19

EDDY CURRENTS, ULTRASONIC, THERMOCONDUCTIVITY, ETCHING, AND STRESS-STRAIN DISTRIBUTION METHODS FOR MATERIAL SORTING
AD-439601 N64-26426 18-10

DYNAMIC STRESS-STRAIN BEHAVIOR OF PLASTICS AND ENGINEERING MATERIALS
AROD-3263-8 N64-31655 23-19

STRETCH FORMING
FLIGHT-WEIGHT ROCKET MOTOR CASES PRODUCED BY CRYOGENIC STRETCH-FORMING
AD-409155 N64-12991 04-26

CRYOGENIC STRETCH-FORMING OF HIGH STRENGTH ALLOYS
QTR-2 N64-13894 05-18

CRYOGENIC STRETCH-FORMING OF SOLID PROPELLANT ROCKET MOTOR CASES
AD-420080 N64-14042 05-17

CRYOGENIC STRETCH-FORMING OF SOLID PROPELLANT ROCKET MOTOR CASES
AD-430537 N64-16475 08-17

MANUFACTURE OF SPARROW ROCKET MOTOR CASE BY CRYOGENIC STRETCH-FORMING TECHNIQUE
AD-430358 N64-17310 09-17

COMPOSITIONS OF AUSTENITIC STAINLESS STEELS FOR ACHIEVEMENT OF ULTRAHIGH STRENGTH BY CRYOGENIC STRETCH-FORMING
QTR-3 N64-17372 09-18

STRETCH-FORMED ALUMINUM SOLAR CONCENTRATOR FOR SPACE POWER CONVERSION SYSTEMS
NASA-CR-47 N64-21420 14-06

CRYOGENIC STRETCH-FORMING OF SOLID PROPELLANT ROCKET MOTOR CASES
QR-7 N64-21675 15-17

STRETCH-FORMED ALUMINUM SOLAR CONCENTRATOR FOR THERMIONIC CONVERSION SYSTEMS
NASA-CR-56469 N64-22424 15-06

PARAMETERS OF BENDING-AND-STRETCH PROCESSES FOR PROFILES WITH TWO AXES OF SYMMETRY
N64-23074 16-17

CRYOGENIC STRETCH FORMING OF FLIGHT-WEIGHT ROCKET MOTOR CASES SIMILAR TO PERSHING MISSILE
QR-8 N64-29714 21-17

LARGE ROCKET MOTOR CASES OF HEAVY WALL THICKNESS - FABRICATION BY CRYOGENIC STRETCH-FORMING
TPR-4 N64-31133 22-17

MECHANICAL PROPERTIES OF CRYOGENIC-STRETCH-FORMED STAINLESS STEELS AT CRYOGENIC TEMPERATURES - HIGH STRENGTH PRESSURE VESSEL MATERIALS
NASA-TN-D-2202 N64-32403 23-18

STRIP
ROLLING COBALT POWDER INTO STRIP
N64-17022 09-17

ROLLING TITANIUM INTO HIGHLY POROUS STRIP FOR FILTERS
N64-17023 09-17

SUPERCONDUCTING-TO-NORMAL CONDUCTING TRANSITIONS IN STRIP TRANSMISSION LINES
NASA-RP-244 N64-26073 18-23

BENDING OF ROUND PLATE AND INFINITE STRIP ON COMBINED BASE
N64-28496 20-33

STRONTIUM
RUBIDIUM, STRONTIUM, & STRONTIUM ISOTOPIC COMPOSITION OF TEKTITES
NASA-TM-X-51168 N64-11339 02-05

EXTRACTION OF HAFNIUM, THORIUM, URANIUM, CALCIUM, MAGNESIUM, BARIUM, AND STRONTIUM FROM PERCHLORIC ACID SOLUTIONS
IS-777 N64-15337 07-07

X-RAY FLUORESCENCE ANALYSIS OF POTASSIUM, BARIUM, RUBIDIUM, STRONTIUM, TITANIUM, ZIRCONIUM, AND PHOSPHORUS
RSIC-137 N64-17656 09-07

SOLVENT EXTRACTION OF RARE EARTHS, CERIUM, AND STRONTIUM USING 2-DIETHYLHEXYL PHOSPHORIC ACID
HW-79762, PT. 2 N64-21736 15-07

SOLVENT EXTRACTION OF STRONTIUM, CERIUM AND RARE EARTHS FROM PUREX ACID WASTE BY DIETHYLHEXYL PHOSPHORIC ACID
HW-79762, PT. 1 N64-25978 18-07

VARIATION OF STRONTIUM ISOTOPIC COMPOSITION IN TEKTITES
NASA-RP-292 N64-28353 20-07

DESORPTION & MIGRATION OF STRONTIUM ON TUNGSTEN BY PULSED FIELD EMISSION MICROSCOPY
AD-421552 N64-31698 23-07

EXAMINATION OF DECAY CHARACTERISTICS OF STRONTIUM BY GAMMA RAY SCINTILLATION SPECTROMETRY AND BETA RAY PROPORTIONAL COUNTING
USNRDL-TR-733 N64-33523 24-23

STRONTIUM COMPOUND
CRYSTAL STRUCTURE ANALYSIS OF STRONTIUM BROMIDE, DETERMINING BROMINE ATOM POSITIONS
N64-16685 08-25

MASS SPECTROMETRIC STUDIES OF VAPORIZATION OF SULFIDES OF CALCIUM, BARIUM, AND STRONTIUM
WADD-TR-60-782, PT. 21 N64-17970 10-07

STRONTIUM ZIRCONATE
STRESS-STRAIN BEHAVIOR OF STRONTIUM ZIRCONATE SINGLE CRYSTALS
BMPR-3 N64-26268 18-19

GROWTH OF LARGE CUBIC CRYSTALS FOR LASERS FROM STANNATES, TITANATES, AND ZIRCONATES OF BARIUM AND STRONTIUM
AD-442555 N64-29681 21-25

STRONTIUM 90
SOME DISTRIBUTION CHARACTERISTICS OF STRONTIUM 90 IN SKELETONS OF DOGS AFTER SINGLE AND LONG-TERM DOSES
JPRS-21997 N64-10389 01-16

TRANSFER OF STRONTIUM 90 THROUGH MILK IN LACTATING MONKEYS AND RATS
UR-635 N64-10616 01-16

ALGAE FOR HUMAN NUTRITION AND CALCIUM & PHOSPHORUS USED TO REDUCE STRONTIUM-90 CONTENT OF RAT SKELETON
JPRS-22295 N64-12442 04-16

CALCIUM AND PHOSPHORUS DIETARY SUPPLEMENT AS MEANS OF REDUCING STRONTIUM-90 ACCUMULATION IN SKELETAL BONES OF RATS
N64-12444 04-16

FALLOUT - RADIONUCLIDE LEVELS IN MILK, TAP WATER, & UPPER AIR - STRONTIUM-90 FALLOUT & LEVELS IN HUMAN DIET & BONE
HASL-135 N64-12909 04-16

HOT SEMIWORKS FOR RECOVERY OF STRONTIUM-90 - SOLVENT EXTRACTION, ION EXCHANGE, & PRECIPITATION PROCESSES
HW-72666 N64-13018 04-07

PASSAGE OF STRONTIUM 90 INTO BROTH FORMED DURING

COOKING OF BONES, MEAT, POTATOES, AND CABBAGE
JPRS-24139 N64-18114 10-16

STRONTIUM 90 TOXICITY IN RAT EMBRYO
UR-639 N64-18348 10-16

RETENTION OF STRONIUM 90 IN RATS AS FUNCTION OF DOSE, AGE, & ADMINISTRATION RATE
UR-642 N64-20715 13-16

EFFECT OF STRONTIUM 90 AND RADIUM 226 ON BEAGLE
UCD-472-110 N64-26043 18-16

FALLOUT DATA - RADIONUCLIDE LEVEL IN SOILS, MILK, TAP WATER, & AIR SAMPLES - STRONTIUM 90 LEVEL IN DIETS & BONES OF CHILDREN, AND PLUTONIUM 238 CONCENTRATION IN AIR
HASL-149 N64-31624 23-12

INTENSITY OF STRONTIUM-90, CESIUM 137, & RADIOACTIVE RARE EARTH PARTICLES IN RAIN AND AIR
LAMS-2878 N64-33469 24-21

STRUCTURAL BEAM
SPECIFIC CRACK STRENGTH OF BONDED BEAM BY JOINT PEELING TEST
DFL-196 N64-10232 01-34

HOLLOW AND SOLID BEAM INTERACTION STRUCTURE FOR TRAVELING WAVE TUBES
ASD-TDR-63-569 N64-13769 05-09

EFFECT OF LONGITUDINAL INERTIA FORCES ON NATURAL TRANSVERSE VIBRATIONAL FREQUENCIES OF BEAM WITH CONSTANT ACCELERATION BY FORCE AT ONE END
TDR-169/3560-30/TN-6 N64-14994 06-33

STRESS ANALYSIS OF RECTANGULAR GRID OF PERPENDICULAR STRUCTURAL BEAMS SIMPLY SUPPORTED AT ENDS UNDER BENDING, SHEARING, AND TORSION
ORNL-3535 N64-18415 10-33

NONLINEAR STRUCTURAL VIBRATION OF BEAMS, ROTOR BLADES, AND COMPOSITE SYSTEMS
FTD-TT-62-1197/1&2 N64-22039 15-34

RESPONSE OF NONLINEAR BEAM TO RANDOM EXCITATION
AFOSR-64-0886 N64-28912 20-33

ROTATING BEAM FATIGUE TESTS FOR TITANIUM-ALUMINUM-VANADIUM ALLOY AT NORMAL & ELEVATED TEMPERATURES
ICAF-251 N64-29362 21-33

THREE-DIMENSIONAL MULTIPLE BEAM ANALYSIS OF SATURN I VEHICLE
NASA-TM-X-53098 N64-30027 21-20

STRUCTURAL DESIGN
STRUCTURAL DESIGN METHODS FOR GLASS FIBER PRESSURE VESSELS
ENG. PAPER-1415 N64-10004 01-34

TELSTAR SATELLITE GENERAL STRUCTURE AND THERMAL DESIGN CONSIDERATIONS N64-10877 02-30

UNPUBLISHED PAPERS ON MATERIAL TESTING AND STRUCTURAL DESIGN
FPR-009, ISSUE 2 N64-12081 03-01

REFRACTORY-CERAMIC PROPERTY DATA FOR DESIGNERS OF AEROSPACE STRUCTURES
RTD-TDR-63-4102 N64-12269 03-19

THERMAL ANALYSIS AND STRUCTURAL DESIGN OF PROPELLANT TANK FOR SPACE STORAGE
AD-425957 N64-12862 04-26

PRESTRESSING A TWO-LAYER STRUCTURALLY DESIGNED PRESSURE VESSEL BY CONTROLLED YIELDING OF INNER LAYER
ORNL-3546 N64-14720 06-33

MATERIAL SELECTION IN MINIMUM WEIGHT DESIGN OF STRUCTURAL COMPONENTS
P-2729 N64-16246 08-34

STRUCTURAL DESIGNS OF FOAM PLASTIC FILLERS
FTD-TT-63-61/1&2 N64-16412 08-34

RELATIVE STRENGTH OF DOUBLE REVERSED CORRUGATED ALUMINUM CORES AND ALUMINUM HONEYCOMBS
ERR-FW-197 N64-16629 08-31

STRUCTURAL DESIGN CRITERIA FOR NONRECOVERABLE ROCKET LAUNCH VEHICLES
SSD-TDR-63-88 N64-18277 10-31

SONIC FATIGUE PREVENTION BY USE OF DESIGN CHARTS, ADJUSTING STRUCTURAL FREQUENCIES, SIREN TESTS, SCALE MODELS, AND RANDOM FATIGUE CURVES
ASD-TDR-63-704 N64-18694 11-33

STRUCTURAL DESIGN TECHNIQUES FOR BRITTLE MATERIALS UNDER STATIC LOADS
ARF-8259 N64-18879 11-33

SPACECRAFT STRUCTURAL DESIGN AND MATERIALS RESEARCH
AIAA-CP-8 N64-19359 12-01

INTEGRATED APPROACH TO STRUCTURAL SYNTHESIS AND ANALYSIS FOR OPTIMUM DESIGN N64-19369 12-33

STRUCTURAL DESIGN FOR LIFTING REENTRY VEHICLES
NASA-TN-D-2186 N64-19878 12-34

DESIGN TECHNIQUES FOR STRUCTURALLY SUPPORTED CERAMIC RADOMES - PRESSURE DRAG, ELECTRIC, AND PHYSICAL PROPERTIES
IER-1 N64-20165 13-01

EFFECTS OF ATMOSPHERIC DATA ERRORS ON STRUCTURAL DESIGN LOADS OF LAUNCH VEHICLES
SSD-TDR-63-383 N64-20463 13-31

DIRECTIONAL WIND COMPONENT PROFILES FOR USE IN AEROSPACE VEHICLE STRUCTURE AND CONTROL DESIGN
NASA-TM-X-53021 N64-20592 13-21

STRUCTURAL DESIGN OF LIQUID PROPELLANT ROCKET ENGINES
FTD-TT-63-346/1&2&3&4 N64-22348 15-27

STRUCTURAL SYNTHESIS - AUTOMATED OPTIMUM DESIGN USING LOGICAL DECISIONS BASED ON STORED TECHNOLOGY DATA
NASA-CR-56480 N64-22422 15-34

SPACE VEHICLE STRUCTURES FOR VIBRATION AND ACOUSTIC ENVIRONMENT N64-23163 16-33

STRUCTURAL DESIGN OF ARTIFICIAL EARTH SATELLITE - SPUTNIK II SATELLITE N64-23635 16-31

DESIGNING STRUCTURALLY ORTHOTROPIC SHELLS OF REVOLUTION N64-23692 16-34

ION-ENGINE DESIGN PROBLEMS OF HIGH CONTACT PRESSURE, THRUST MEASUREMENT, AND CYLINDRICAL BODY DESIGN
NASA-RP-200 N64-24529 17-27

MATHEMATICAL MODELS OF SHIP HULLS - STRUCTURAL DESIGN N64-26479 18-30

STRUCTURAL DESIGN CRITERIA, SYSTEM BASIC LOADS, AND STRESS AND VIBRATION ANALYSIS OF SYSTEM FOR NUCLEAR AUXILIARY POWER-2 /SNAP-2/ UNIT
NAA-SR-9054 N64-26519 18-34

FORMING OF REFRACTORY METAL AND ALLOY SHEET FOR HIGH TEMPERATURE STRUCTURAL DESIGNS
N64-27600 19-11

STRUCTURALLY SUPPORTED RADOME STUDIES - PREDICTION OF PLANE WAVE TRANSMISSION PERFORMANCE OF SPACE FRAME AND DEFINITION OF AERODYNAMIC LOAD LIMITS
IER-2 N64-28200 20-34

STRUCTURAL DESIGN OF HIGH TEMPERATURE INSULATING MATERIAL SYSTEMS FOR REENTRY VEHICLES
N64-30911 22-34

DESIGN CRITERIA FOR STRUCTURAL SANDWICH CONSTRUCTIONS UNDER VARIOUS LOADS
FPL-2161 N64-33858 24-34

STRUCTURAL DYNAMICS
DETERMINATION OF SOUND PROPAGATION RATE IN LIQUIDS FLUID DYNAMICS, FLIGHT MECHANICS, THERMODYNAMICS AND STRUCTURAL DYNAMICS
S.M.F. FUND PAPER-FF-34 N64-10080 01-01

STRUCTURES AND MATERIAL FATIGUE, STRUCTURAL DYNAMICS, & HIGH STRENGTH MATERIALS - AERONAUTICS
N64-11880 03-34

BOUNDARY LAYER, FLIGHT CONTROL, AND STRUCTURAL DYNAMICS RESEARCH FOR X-15A AIRCRAFT
N64-12910 04-04

STRUCTURAL DYNAMICS OF NONLINEAR FLUTTER AND VIBRATIONAL PROBLEMS N64-13563 05-33

AEROTHERMODYNAMIC AND STRUCTURAL CHARACTERISTICS FOR PARAGLIDER BOOSTER RECOVERY SYSTEMS
N64-15263 07-30

RADIOTELESCOPE IN ORBIT - STRUCTURAL DYNAMICS, THERMAL STRESS, AND RADIATION PATTERN IN FAR FIELD
NASA-CR-55669 N64-15547 07-09

VIBRATION STUDY OF HEATED STRUCTURE BY TRANSIENT EXCITATION AND WAVE ANALYSIS
NAEC-ASL-1068 N64-15568 07-33

DYNAMIC ANALYSIS OF STRUCTURAL SYSTEMS BY COMPONENT MODE SYNTHESIS
NASA-CR-53057 N64-15787 07-33

ATMOSPHERIC TURBULENCE EFFECT ON PILOTS AND AIRCRAFT AT LOW ALTITUDE
AGARD-441 N64-17541 09-11

PREDICTION OF ACOUSTIC VIBRATION RESPONSE OF ROCKET VEHICLE STRUCTURES N64-18538 11-33

MATRIX METHODS FOR STRUCTURAL ANALYSIS
AGARDOGRAPH-72 N64-20938 14-33

MATRIX METHODS OF STRUCTURAL ANALYSIS
N64-20939 14-20

UPPER AND LOWER BOUNDS IN MATRIX STRUCTURAL ANALYSIS N64-20940 14-20

DYNAMIC RESPONSE OF LARGE LOGISTIC V/STOL AIRCRAFT STRUCTURES
FDL-TDR-64-44 N64-22295 15-04

STRUCTURAL STATE AND HEAT RESISTANCE OF ALLOYS
FTD-TT-62-1756/1&2 N64-22634 15-18

MICROSCOPIC INSPECTION OF BRAZING AND WELDING JOINTS, AND STRUCTURAL DYNAMICS OF TRAVELING WAVE TUBE
AD-601466 N64-22703 15-17

BLAST LOADING AND STRUCTURAL RESPONSE OF LIFTING SURFACES
ER-2983 N64-23210 16-33

STRUCTURAL BEHAVIOR OF INFLATED FABRIC CYLINDERS UNDER VARIOUS LOADING CONDITIONS
N64-23732 16-33

DYNAMICS OF COMPOSITE STRUCTURES AND MATERIALS
NASA-CR-71 N64-24073 16-33

EXACT SOLUTION FOR THREE-DIMENSIONAL STATIONARY DYNAMIC ELASTICITY OF ISOTROPIC CYLINDER
N64-30421 22-33

STRESS ANALYSIS IN STRUCTURES SUBJECT TO CREEP
TR-35 N64-30917 22-33

LARGE DYNAMIC PLASTIC DEFORMATIONS OF SIMPLE STRUCTURES SUBJECTED TO IMPULSE LOADING
ASRL-110-2 N64-30927 22-33

STRUCTURAL DYNAMICS OF ROTOR AND BEARINGS IN HELICOPTER WITH BLADE MOUNTED TURBOJET ENGINES
FTD-MT-63-264 N64-32397 23-27

STRUCTURAL FAILURE
STRUCTURAL FAILURE OF DISTORTED TUNNEL BY DYNAMIC BLAST LOADS N64-12412 04-12

LIQUID & SOLID PROPELLANT SIMULANTS FOR STATIC STRUCTURAL TESTS
ASD-TDR-63-405 N64-14136 05-26

HARDNESS OF NONMETALLIC SOLIDS FOR RESISTANCE TO STRUCTURAL BREAKDOWN
AFCRL-63-26 N64-15583 07-23

PROBABILITY OF COLLAPSE OF FAIL-SAFE AIRCRAFT STRUCTURES OF 6 PARALLEL ELEMENTS - FUNCTION OF SERVICE LIFE FOR VARIOUS INSPECTION INTERVALS
HU-961 N64-17150 09-09

STRUCTURAL FATIGUE, CRACK PROPAGATION, AND FRACTURE STUDIES
PUBL.-141 N64-17547 09-02

STATISTICAL PROBABILITY OF FATIGUE FAILURE THROUGH CRACK PROPAGATION
NASA-CR-53516 N64-19257 11-33

ULTRASONIC INSPECTION OF STRUCTURAL FLAWS IN SHEET STEEL N64-19266 11-17

PROBABILITY OF FAILURE OF SIMPLE STRUCTURES UNDER RANDOM EXCITATION
TR-1 N64-22901 16-33

STRUCTURAL DAMAGE IN METAL FORMING PROCESSES
REPT.-64-GC-0272M N64-24238 17-18

STRUCTURAL FAILURES OF AIRCRAFT CAUSED BY FATIGUE, CORROSION, AND ABRASION
TRECOM-TR-64-36 N64-30118 21-04

STRUCTURAL FATIGUE
CONTROL OF ACOUSTICALLY INDUCED STRUCTURAL FATIGUE
EWR-73-63 N64-10159 01-33

STRUCTURAL FAILURE OF DISTORTED TUNNEL BY DYNAMIC BLAST LOADS N64-12412 04-12

LIQUID & SOLID PROPELLANT SIMULANTS FOR STATIC STRUCTURAL TESTS
ASD-TDR-63-405 N64-14136 05-26

LINEAR STRAIN THEORY AND SMITH METHOD FOR PREDICTING FATIGUE LIFE OF STRUCTURES FOR SPECTRUM TYPE LOADING
ARL-64-55 N64-22279 15-33

STRUCTURAL MATERIAL
SA PANEL
SA SKIN
HEMISPHERICAL EMITTANCE OF STRUCTURAL MATERIALS & COATINGS UNDER SIMULATED SPACECRAFT CONDITIONS OVER WIDE TEMPERATURE RANGE N64-10962 02-13

TENSILE AND IMPACT PROPERTIES OF STRUCTURAL MATERIALS FROM 20- TO 300-DEG K
NBS-MONOGRAPH-63 N64-12003 03-18

COMPOSITE BEHAVIOR OF FILAMENT-WOUND STRUCTURAL MATERIALS
IAC PAPER-139 N64-12005 03-19

INSTRUMENT FOR MEASURING THERMAL CONDUCTANCE OF HONEYCOMB STRUCTURAL MATERIALS AT HIGH TEMPERATURE
ASD-TDR-63-359 N64-12869 04-13

DELAYED FAILURE IN STRUCTURAL MATERIALS WETTED BY LIQUID METALS AND UNDER STATIC LOADING CONDITIONS
IITRI-B183-14 N64-12872 04-18

RAMJET STRUCTURAL ELEMENTS, NONREGENERATIVELY COOLED COMBUSTION CHAMBERS & NOZZLES, AND HIGH TEMPERATURE COATED TUNGSTEN STRUCTURES
REPT.-25109 N64-13596 05-27

REACTOR ENVIRONMENT AND IRRADIATION EFFECT ON STRUCTURAL MATERIALS - ZIRCALOY-2, HASTELLOY X-280, AND NICKEL BASE ALLOYS N64-14232 06-23

RADIATION HEATING OF STRUCTURAL MATERIALS
NARF-63-8T N64-15366 07-23

MATERIAL SELECTION IN MINIMUM WEIGHT DESIGN OF

STRUCTURAL COMPONENTS
P-2729 N64-16246 08-34

FRACTURE CHARACTERISTICS OF STRUCTURAL METALS
ER-5426 N64-17303 09-18

OUTGASSING OF STRUCTURAL MATERIALS AND SMALL TEST SAMPLES INSTALLED IN GLASS VACUUM SYSTEM
AEDC-TDR-64-53 N64-17959 10-19

STRUCTURAL MATERIAL WITH HIGH ENERGY ABSORPTION CAPABILITY AND TRANSPARENCY TO RADIO FREQUENCY TRANSMISSION
NASA-CR-53479 N64-18098 10-09

PHENYL SILANE PREIMPREGNATED GLASS FABRIC LAMINATES TESTED FOR HIGH TEMPERATURE STRUCTURAL PROPERTIES
ERR-FW-126 N64-18922 11-19

MATERIALS FOR AEROSPACE VEHICLES - PRIMARY AND SECONDARY STRUCTURE, ENVIRONMENTAL PROTECTION, ENERGY, ELECTRONICS, & SEALING SYSTEMS
ASD-TDR-63-688 N64-19972 12-19

FRACTURE TOUGHNESS OF STRUCTURAL STEEL IN LARGE SECTIONS
FGT-3064 N64-20042 13-18

SHEAR MODULUS AND SHEAR STRENGTH OF STRUCTURAL MATERIAL FOR CENTAUR VEHICLE THERMAL SHIELDING
FTDM-3048 N64-20048 13-18

COMPOSITE SYSTEMS FOR THERMAL-STRUCTURAL APPLICATIONS IN ABLATION SYSTEMS, COOLING SYSTEMS, AND ENVIRONMENTAL CONTROL SYSTEMS
FZM-4037 N64-20071 13-19

TENSILE PROPERTIES OF BERYLLIUM FOR STRUCTURAL MATERIAL
AD-435098 N64-20288 13-18

NONDESTRUCTIVE INSPECTION & TESTING OF FIBERGLASS REINFORCED PLASTIC MISSILE CASES & STRUCTURAL MATERIALS BY USE OF X-RAY TELEVISION EQUIPMENT
WAL-TR-142.5/2-8 N64-20319 13-17

PRINCIPLE OF STATIONARY COMPLEMENTARY ENERGY FOR STRUCTURES WITH FINITE DEFORMATIONS
ME-836-624 N64-20638 13-33

RAMJET STRUCTURAL ELEMENTS, NONREGENERATIVELY COOLED COMBUSTION CHAMBERS AND NOZZLES, AND HIGH TEMPERATURE COATED TUNGSTEN STRUCTURES
REPT.-25092 N64-20857 14-26

ACOUSTIC AND RANDOM VIBRATION FATIGUE TEST OF STRUCTURAL SKIN PANELS FOR TITAN III ICBM
SSD-CR-64-95 N64-21110 14-33

COMPOSITE STRUCTURAL MATERIALS WITH HIGH STRENGTH-TO-WEIGHT RATIOS AT ELEVATED TEMPERATURES
AD-439813 N64-21182 14-18

METALLURGICAL PROPERTIES OF HIGH STRENGTH STRUCTURAL MATERIALS FOR SHIP HULLS
NRL-6086 N64-21226 14-18

CERAMIC SYSTEMS FOR MISSILE STRUCTURAL APPLICATION
AD-431544 N64-21787 15-19

POWDER METALLURGY AND STRENGTH OF MATERIALS
FTD-TT-62-506/1 N64-22171 15-18

CORROSION FATIGUE PROPERTIES OF STRUCTURAL MATERIALS
ADR-02-09-64.1 N64-22415 15-18

STRUCTURAL MATERIAL FOR SUPERSONIC TRANSPORT
AIAA PAPER-64-354 N64-23353 16-18

SPACECRAFT COMMUNICATION, GUIDANCE AND CONTROL, MARS TRAJECTORY, POWER SYSTEM, AND STRUCTURAL MATERIALS N64-24230 16-01

NONMETALLIC STRUCTURAL MATERIALS FOR PROTECTION AGAINST CORROSION BY HYDROCHLORIC ACID N64-24276 17-19

PHYSICAL AND MECHANICAL PROPERTIES OF CRYOGENIC MATERIALS - HANDBOOK
PB-171809-4 N64-25042 17-18

ARC PLASMA SPRAYED TUNGSTEN AS ENGINEERING MATERIAL N64-25411 17-18

COMPOSITE MATERIAL FOR HIGH TEMPERATURE STRUCTURAL APPLICATION N64-25413 17-17

NIOBIUM-HAFNIUM ALLOYS FOR USE AS HIGH TEMPERATURE STRUCTURAL MATERIALS
BM-RI-6492 N64-25834 17-18

GRAPHITE MATERIALS - FINE-GRAIN ISOTROPIC GRAPHITE FOR STRUCTURAL AND SUBSTRATE APPLICATIONS
WADD-TR-61-72, VOL. XIII, SUPP N64-26233 18-18

MATERIALS FOR LAMINATED PHOTOELASTIC MODELS
RAE-TRANS-1064 N64-26545 18-19

INFLUENCE OF CONSTITUENT PROPERTIES ON COMPOSITE MATERIAL PERFORMANCE - STRUCTURAL EFFICIENCY OF CYLINDRICAL SANDWICH SHELLS IN AXIAL COMPRESSION
NASA-CR-58182 N64-26577 18-34

PHYSICAL PROPERTIES OF NIOBIUM ALLOY EVALUATION AS STRUCTURAL MATERIAL FOR REENTRY VEHICLE
D2-20239-1 N64-27084 19-18

PHYSICAL PROPERTIES OF NIOBIUM ALLOY - EVALUATION AS STRUCTURAL MATERIAL FOR REENTRY VEHICLE
D2-20275-1 N64-27085 19-18

CORROSION AND PROTECTION OF METALLIC STRUCTURAL MATERIALS
FTD-TT-63-672/1&2 N64-27087 19-18

SPACE ENVIRONMENTAL EFFECTS ON MATERIALS AND COMPONENTS - ELASTOMERIC AND PLASTIC MATERIALS - STRUCTURAL ADHESIVES
RSIC-150, VOL. I, APPEND. D N64-27483 19-19

NONMETALLIC MATERIALS FOR HIGH TEMPERATURE STRUCTURAL APPLICATIONS
SSD-TDR-64-10 N64-27541 19-18

FIBERGLASS USED AS STRUCTURAL MATERIAL IN SHIP BUILDING
JPRS-25575 N64-28105 20-19

NOTCHED FLAT PANEL TEST FOR COMPRESSIVE STRENGTH OF FILAMENT WOUND PLASTIC STRUCTURAL MATERIALS
PR-5 N64-29373 21-33

GRAPHITE FOR STRUCTURAL AND SUBSTRATE MATERIAL
WADD-TR-61-72, VOL. XIII N64-29426 21-19

HYPERVELOCITY IMPACT ON STRUCTURAL MATERIAL USING EXPLODING CONDUCTOR CIRCUIT - MEASUREMENT OF MASS, VELOCITY, AND CRATERING OF PARTICLES
ML-TDR-64-161 N64-29427 21-33

NEUTRON IRRADIATION EFFECTS ON PROPERTIES OF STRUCTURAL MATERIALS
NRL-MR-1393 N64-29660 21-18

PHOTOELASTIC STRESS DISTRIBUTION MEASUREMENTS IN STRUCTURAL ELEMENTS
RSIC-244 N64-29980 21-18

NONFERROUS ALLOYS FOR AEROSPACE STRUCTURAL APPLICATION
ASD-TDR-63-741, VOL. II, SUPPL N64-30058 21-18

METALLURGIC CHARACTERISTICS OF HIGH STRENGTH STRUCTURAL MATERIALS
NRL-6137 N64-30573 22-18

METAL-CERAMIC COMPOSITE MATERIALS FOR HIGH TEMPERATURE STRUCTURAL APPLICATION TO REENTRY VEHICLES
ML-TDR-64-583 N64-30929 22-18

MATERIALS HANDBOOK FOR STRUCTURAL PLASTICS IN AEROSPACE VEHICLES
ML-TDR-64-141 N64-30930 22-19

WELDING PROCEDURES AND FILLER MATERIALS FOR

JOINING MARTENSITIC AND BAINITIC STEEL
ML-TDR-64-255 N64-30933 22-17

NASA TESTS ON MECHANICAL PROPERTIES OF MATERIALS APPLICABLE FOR SUPERSONIC TRANSPORTS
NASA-TM-X-1013 N64-31220 22-18

LARGE LOW DENSITY METALLIC AIRMAT FABRICS FOR REENTRY VEHICLES
ASD-TR-7-904/IX/ N64-31248 22-34

CHARACTERISTICS OF PRINCIPAL STRUCTURAL ELEMENTS OF VISIBLE AND FAR SIDES OF MOON
NASA-TT-F-8835 N64-31449 23-29

SHAPE AND INTERNAL STRUCTURE OF MOON - LUNAR PARAMETERS AND DENSITY DISTRIBUTION - RIGID AND THERMAL CONVECTION MODELS
RM-3964-PR N64-31972 23-29

CONSTRUCTION MATERIALS FOR REENTRY GLIDER COMPONENTS
SGC-335-2 N64-32424 23-17

PROPELLANT ACTUATED DEVICES /PAD/ INCLUDING THRUSTERS, CATAPULTS, INITIATORS, AND STRUCTURAL MATERIAL
PAD-93-1 N64-32596 23-27

PROPELLANT ACTUATED DEVICES - THRUSTERS, CATAPULTS, INITIATORS, AND STRUCTURAL MATERIALS
PAD-94-1 N64-32597 23-06

COMPATIBLE MATERIALS FOR VAPOR-PRESSURE-OPERATED HIGH-TEMPERATURE SENSOR DEVICE
NASA-CR-50001 N64-32631 23-15

REVISION, EXPANSION, AND IMPROVEMENT OF AEROSPACE STRUCTURAL METALS HANDBOOK
MET.E-1161-0764-QP2 N64-32659 23-18

GRAPHITE AS HIGH TEMPERATURE STRUCTURAL MATERIAL
AGARDOGRAPH-51 N64-33057 24-19

EXTENSION OF METHODS OF CLASSICAL CONTINUUM MECHANICS - STRUCTURAL MATERIALS
C11-94 N64-33883 24-23

STRUCTURAL STABILITY
FILAMENT WOUND PRESSURE VESSEL STRUCTURAL PERFORMANCE AND RELIABILITY - POLARIS PROGRAM
REPT.-0627-1-3 N64-12334 03-33

HYDROSTATIC TESTING OF STRUCTURAL STABILITY OF FILAMENT WOUND SPHERICAL CHAMBERS - POLARIS MISSILE PROJECT
AD-424062 N64-12339 03-33

ANNOTATED BIBLIOGRAPHY ON STRUCTURAL STABILITY OF TOROIDAL SHELLS
SB-63-50 N64-12382 03-23

STRENGTH OF THIN WALL STRUCTURES
FTD-TT-62-1624/1 N64-21654 15-34

STRUCTURAL STRENGTH OF GAS TURBINE PLATES UNDER UNSTEADY OPERATING CONDITIONS
FTD-TT-62-1798/1&2&4 N64-22144 15-33

VERTICAL VARIATION OF STRENGTH OF SEA & SALT ICE
RR-113 N64-29867 21-12

STRUCTURAL VIBRATION
RIGID BODY VIBRATIONS OF ROCKET SLEDS AND SHAKE TEST METHOD OF OBTAINING INERTIA AND ELASTIC CONSTANTS
MDC-TDR-63-1 N64-12938 04-33

VIBRATION PREDICTION FOR JET POWERED VEHICLES AND APPLICATION TO F-111 AIRCRAFT N64-18539 11-33

PRELAUNCH & FLIGHT VIBRATION MEASUREMENTS ON THOR VEHICLES N64-18540 11-30

VIBRATION AND DYNAMIC RESPONSE OF SCALE MODEL OF NIMBUS SPACECRAFT SATELLITE N64-18541 11-30

DYNAMIC ENVIRONMENT, ROCKET EXHAUST NOISE, BOUNDARY LAYER NOISE, AND RANDOM & SINUSOIDAL VIBRATION OF S- IV AND S- IVB VEHICLES N64-18542 11-30

VIBRATION ENVIRONMENT OF SATURN LAUNCH VEHICLE FLIGHTS N64-18544 11-30

FLIGHT EVALUATION OF VEHICLE BENDING DATA FOR SATURN I LAUNCH VEHICLE - STRUCTURAL VIBRATION, DYNAMIC RESPONSE N64-18545 11-30

ANALOG COMPUTER SOLUTION TO ELECTRONIC PACKAGES AND AIRCRAFT STRUCTURAL PROBLEMS N64-18552 11-23

STRUCTURAL VIBRATION DUE TO SOUND AND ENERGY TRANSFER
NASA-TN-D-2266 N64-18959 11-33

TURBULENT MOTION & BOUNDARY LAYER NOISE GENERATED BY VIBRATIONS OF STEEL STRUCTURES
AGARD-465 N64-18992 11-11

SPACE VEHICLE CONTROL - STRUCTURAL VIBRATIONS, PROPELLANT SLOSHING, & VEHICLE STABILITY N64-20710 13-30

DYNAMIC MODEL MISSILE SIMULATOR FOR PREDICTION OF STRUCTURAL VIBRATION
NOR-63-139 N64-21438 14-33

NONLINEAR STRUCTURAL VIBRATION OF BEAMS, ROTOR BLADES, AND COMPOSITE SYSTEMS
FTD-TT-62-1197/1&2 N64-22039 15-34

VIBRATION & RESPONSE OF CURVED PANELS - DYNAMIC NONLINEAR SHALLOW SHELL EQUATIONS
IDA/HQ-63-1346 N64-22202 15-33

STRUCTURAL VIBRATION CHARACTERISTICS AND RESONANT FREQUENCIES FOR HYDROFOIL CONFIGURATIONS
AD-602544 N64-28286 20-33

NATURAL VIBRATION MODES FOR LARGE COMPLEX STRUCTURES
NASA-CR-58540 N64-28747 20-33

STRUCTURAL WEIGHT
PARAMETERS AFFECTING STRUCTURAL WEIGHT OF ROCKET VEHICLE NOSE CONE
NASA-TM-X-50988 N64-12161 03-30

STRUCTURE
SA AIRCRAFT STRUCTURE
SA COMPOSITE STRUCTURE
SA CRYSTAL STRUCTURE
SA ELECTRONIC STRUCTURE
SA EXPANDABLE STRUCTURE
SA INFLATABLE STRUCTURE
SA MICROSTRUCTURE
SA MOLECULAR STRUCTURE
SA NUCLEAR STRUCTURE
SA RIGID STRUCTURE
SA SPACE ERECTABLE STRUCTURE
SA SPACECRAFT STRUCTURE
STRUCTURE & COMPOSITION OF STRATOSPHERE AND MESOSPHERE - EARTH TEMPERATURE, AVIATION EFFECT, AND INDIVIDUAL PECULIARITIES
JPRS-21978 N64-10355 01-12

TRANSMISSION ELECTRON MICROSCOPY OF SUBSTRUCTURES OF PLASTICALLY DEFORMED COPPER UNDER STATIC AND SHOCK LOADING
UCRL-10932 N64-10396 01-18

STRUCTURAL METHODS IN THEORY OF CONTROL AND ELECTRIC AUTONATION
JPRS-19084 N64-10508 01-09

STRUCTURAL & OPTICAL PERFORMANCE ANALYSES OF BRAYTON CYCLE SOLAR COLLECTOR
NASA-CR-52861 N64-11106 02-06

STRUCTURAL PROPERTIES OF FIBERGLAS FILAMENT WOUND PRESSURE VESSELS AT CRYOGENIC TEMPERATURES
NASA-CR-55023 N64-11810 03-19

STRUCTURAL ANALYSIS OF BRAZED AIRFRAME TESTS - METALLURGY
A245 N64-11925 03-34

HYPERFINE STRUCTURES OF STABLE LITHIUM ISOTOPES, & RADIOACTIVE ISOTOPES OF RHENIUM
UCRL-11047 N64-11988 03-23

BUILDUP FACTOR FOR GAMMA RAYS PENETRATING COMPARTMENTED STRUCTURES
USNRDL-TR-681 N64-12644 04-23

X-RAY DIFFRACTION METHODS APPLIED TO SUBSTRUCTURE AND DISLOCATION DISTRIBUTION OF SINGLE CRYSTAL AND POLYCRYSTALLINE ALUMINUM N64-12763 04-25

STIFFNESS METHOD OF STRUCTURAL ANALYSIS - COMPUTER PROGRAMMING, STRESS, THERMOELASTICITY, & ELASTIC STABILITY CALCULATIONS N64-13045 04-34

INSTALLATION FOR X-RAY STRUCTURAL ANALYSIS OF RADIOACTIVE MATERIALS AND RADIATION DISRUPTION IN ALLOY AND METAL CRYSTAL LATTICES N64-13739 05-23

FORMULA FOR DETERMINING EFFECT OF MODIFYING STIFFNESS OF MEMBERS IN STRUCTURES ON EXISTING LOAD DISTRIBUTION - MATRIX ANALYSIS
ARL/SM-280 N64-14053 05-33

STRUCTURAL ANALYSIS OF SILICON P-N JUNCTIONS USING UNIFORM AVALANCHE JUNCTIONS
AFCRL-63-538 N64-14138 05-25

STRUCTURES, MATERIALS SCIENCE, RELIABILITY, AND METEOROID HAZARDS N64-16004 07-34

MATRIX ANALYSIS METHODS FOR INELASTIC STRUCTURES
RTD-TDR-63-4032 N64-16829 08-33

STRUCTURAL ANALYSIS OF GRAPHITIC MATERIALS
AD-432138 N64-16832 08-19

INTERNAL STRUCTURE AND STRENGTH OF MOON, MARS, VENUS, AND MERCURY
NASA-TR-R-173 N64-17518 09-05

ANALYTICAL TECHNIQUES TO DETERMINE OPTIMUM WEIGHT AND PERFORMANCE OF IDEAL SPACECRAFT LANDING SYSTEM USING SOLID STRUCTURAL MATERIALS TO ABSORB ENERGY
NASA-CR-53320 N64-17764 09-30

AERODYNAMICS, STRUCTURES, PROPERTIES OF METALS AND ALLOYS, MECHANICAL ENGINEERING, GUIDED WEAPONS, AND AIRCRAFT OPERATION RESEARCH N64-18420 10-01

STIFFNESS CHARACTERISTICS OF SANDWICH-TYPE FLUTTER MODEL CONSTRUCTION
ERR-FW-167 N64-19137 11-33

HARTREE-FOCK WAVE FUNCTIONS IN CALCULATIONS OF FINE STRUCTURE SEPARATIONS IN ATOMIC SYSTEMS
AFCRL-64-112 N64-19634 12-23

FLUTTER ANALYSIS OF CORRUGATION-STIFFENED PANELS AT SUPERSONIC SPEED - MACH NUMBER 3
NASA-TN-D-2293 N64-19725 12-33

MEASUREMENT OF HYPERFINE INTERACTIONS IN SOLIDS USING RADIOACTIVE NUCLEI
AROD-3006-6 N64-20302 13-23

COMPLEMENTARY ENERGY METHOD FOR STATICALLY LOADED STRUCTURES WITH FINITE DEFORMATIONS
ME-836-639 N64-20773 14-33

CELLULAR STRUCTURE OF THICK OXIDE FILMS OF ANODIZED ALUMINUM AND ALUMINUM ALLOYS N64-20920 14-18

DIGITAL COMPUTER PROGRAM FOR MATRIX ANALYSIS OF AEROSPACE STRUCTURES
FDL-TDR-64-18 N64-21439 14-20

LOGIC SYSTEMS - THEORY OF STRUCTURES AND FUNCTION IN SCIENCE OF BEHAVIOR
ESD-TDR-64-193 N64-21533 15-16

STRENGTH OF THIN WALL STRUCTURES
FTD-TT-62-1624/1 N64-21654 15-34

OCEANOGRAPHIC FACTORS - THERMAL STRUCTURE OF UPPER SEA LAYERS BY THERMISTOR CHAIN
NEL-1210 N64-21809 15-12

TECHNOLOGY OF LIGHTWEIGHT AEROSPACE STRUCTURES
AIAA PAPER-64-531 N64-23614 16-02

STIFFENED AND UNSTIFFENED CYLINDERS TESTED IN BIAXIAL HYDROSTATIC COMPRESSION
QPR-7 N64-24894 17-23

MECHANICAL STRUCTURE OF RADIO TELESCOPE
PR-19 N64-24978 17-05

STRUCTURAL DAMPING OF PERMANENT JOINTS
FTD-TT-63-755/1&2 N64-25443 17-33

NONLINEAR DYNAMIC RESPONSE OF REINFORCED CONCRETE CIRCULAR ARCHES
R64-6 N64-25584 17-33

STRUCTURAL TESTS AND STRESS ANALYSES OF SYSTEM FOR NUCLEAR AUXILIARY POWER-10A /SNAP-10A/
NAA-SR-9655 N64-25977 18-34

FREE OSCILLATIONS OF CYLINDRICAL SHELL REINFORCED WITH STIFFENED RIBS
FTD-TT-64-72/1 N64-26112 18-33

STRUCTURAL DIAGRAM OF VANADIUM-CERIUM SYSTEM
FTD-TT-62-1761/1 N64-26210 18-18

COMPARISON OF MATRIX METHODS FOR INELASTIC STRUCTURAL ANALYSIS
ADR-02-11-64.1 N64-26304 18-34

STRUCTURAL FLIGHT LOAD TEST DATA FOR C-130 AIRCRAFT
ASD-TDR-64-78 N64-26321 18-04

VIBRATION STUDIES OF COMPRESSOR FOUNDATION STRUCTURE
NAL-TN-AE-19-63 N64-26536 18-33

MATRIX THEORY FOR FORCE, DEFLECTION, AND STRESS CALCULATION FOR LINEAR-ELASTIC SKELETAL STRUCTURES
WAPD-TM-417 N64-26611 18-34

PROPULSION SYSTEM, GROUND RESONANCE AND STRUCTURE STATIC TESTING FOR XV-5A AIRCRAFT
QTPR-8 N64-26656 18-04

STRUCTURAL TESTS ON SYSTEM FOR NUCLEAR AUXILIARY POWER-10A /SNAP-10A/ PROTOTYPE
NAA-SR-9820 N64-26796 18-06

PHENOMENOLOGICAL THEORY OF MULTI-MODE SURFACE WAVE EXCITATION PROPAGATION, AND DIFFRACTION - PLANE STRUCTURES
EM-198 N64-26881 18-01

LINE SPECTRUM IN MAGNETIC-DIPOLE TRANSITION IN HYPERFINE STRUCTURE OF ATOM N64-27169 19-05

INTERSTELLAR MATERIAL AND STRUCTURE OF GALAXIES N64-27198 19-05

VIBRATION STUDY OF TWO RING-STIFFENED CYLINDRICAL SHELLS FOR NOISE FACILITY TEST CHAMBER
NASA-TN-D-2398 N64-27201 19-33

LAYOUTS AND VIRTUAL DISPLACEMENT FIELDS IN MICHELL THEORY OF OPTIMUM STRUCTURES
COA-N-AERO-161 N64-27410 19-33

OVERALL STRUCTURE, AND STRUCTURE OF BOOSTER STAGE, SECOND STAGE, PROPULSION SYSTEM, AND EQUIPMENT PODS OF SATURN I /SA-3/ LAUNCH VEHICLE
GD/A-63-0187 N64-27653 19-31

STRUCTURAL ANALYSIS OF CRASH IMPACT CONFIGURATIONS IN STEEL TUBE AND FABRIC AIRCRAFT
AVSER-63-9 N64-27845 19-33

INTERNAL STRUCTURE AND CHARACTERISTICS OF HYDROGEN PLANETS - EQUATIONS OF STATE OF HYDROGEN AT HIGH PRESSURES N64-28377 20-21

EFFECTS OF MATERIALS AND PROCESSING VARIABLES ON FILAMENT WOUND STRUCTURES

QPR-0827-02-2 N64-28507 20-17

DYNAMIC BUCKLING OF IMPERFECTION-SENSITIVE STRUCTURES
TR-18 N64-28556 20-33

DYNAMIC STRUCTURAL MODELING USING MATERIALS DIFFERENT FROM FULL SCALE DESIGN
N64-29254 21-33

SUPPORT SYSTEMS AND EXCITATION TECHNIQUES FOR DYNAMIC MODELS OF SPACE VEHICLE STRUCTURES
N64-29259 21-33

STRUCTURE, SYMMETRY, AND SPACE TIME OF ELEMENTARY PARTICLES
RIFP-39 N64-29615 21-23

ELASTIC CONSTANTS FOR BENDING AND TWISTING OF CORRUGATION STIFFENED PANELS
NASA-TR-R-166 N64-30104 21-33

THERMAL PROTECTION SYSTEMS AND THERMOSTRUCTURES TO WITHSTAND EXTENDED HIGH TEMPERATURES, INTENSE NOISE, AND DYNAMIC LOADS
AD-439449 N64-30537 22-34

HIGH TEMPERATURE RESISTANT METAL REINFORCED REFRACTORY CERAMIC COATING FOR INSULATION OF SUBSTRUCTURES
ML-TDR-64-81 N64-30928 22-17

EFFECT OF TURBULENT INNER SCALE ON PHASE STRUCTURE FUNCTION
TR-120 N64-32761 24-08

DISLOCATION SUBSTRUCTURE IN HIGH PURITY BERYLLIUM DURING CYCLIC STRESSING
NASA-CR-58979 N64-33191 24-18

X-RAY DIFFRACTION OF NONPLANAR CARBANION CRYSTAL STRUCTURES N64-33201 24-07

RESEARCH PROGRAMS ON NUCLEAR MAGNETIC RESONANCE, ATOMIC SPECTROSCOPY, LOW TEMPERATURE PHENOMENA, AND NUCLEAR STRUCTURE
AD-600874 N64-33265 24-23

EQUILIBRIUM STRUCTURES IN URANIUM ALLOYS CONTAINING SILICON
MCW-1486 N64-33461 24-18

BAND STRUCTURE STUDY IN IRON SERIES OF TRANSITION ELEMENTS
PR-4 N64-33666 24-25

STRUT
EROSION INSPECTION OF FOIL AND STRUT ASSEMBLIES
USNASL-9110-P-IJ N64-23000 16-18

HYDRODYNAMIC CHARACTERISTICS OF BASE-VENTED AND SUPERCAVITATING STRUTS FOR HYDROFOIL SHIPS - PHOTOGRAPHS AND GRAPHS
REPT.-2796, VOL. II N64-30593 22-11

HYDRODYNAMIC CHARACTERISTICS OF BASE-VENTED AND SUPERCAVITATING STRUTS FOR HYDROFOIL BOATS
REPT.-2796, VOL. I N64-30597 22-11

STURM-LIOUVILLE OPERATOR
TRACE FORMULAS FOR STURM-LIOUVILLE OPERATOR - PERTURBATION THEORY
NRC-417 N64-12333 03-20

STYRENE
PREPARATION OF VINYL, STYRENE, BUTADIENE, ACRYLATE, AND POLYESTER FLUORINE MONOMERS
JPRS-22383 N64-11983 03-07

VISCOELASTIC PROPERTIES OF STYRENE-ACENAPHTHYLENE COPOLYMERS IN TRANSITION REGION
ONR-TR-RLT-66 N64-12817 04-23

BALL INDENTATION TECHNIQUE FOR SHEAR COMPLIANCE VARIATION MEASUREMENT IN POLYSTYRENE
ONR-TR-RLT-69 N64-16889 08-19

MOLECULAR RELAXATION IN POLY-2-FLUORO-5-METHYL-STYRENE STUDIES USING DIELECTRIC CONSTANT AND LOSS MEASUREMENTS
RAE-TRANS-1057 N64-17251 09-09

TENSILE STRENGTH AND RELAXATION TIME OF STYRENE COPOLYMERS
PIBAL-687 N64-20331 13-07

STRAIN GAUGE MEASUREMENT ON POLYSTYRENE SWEPTBACK BOX BEAM WITH NONSWEPT CENTER PART
NLR-TR-S.597 N64-20435 13-33

GRAFT COPOLYMER OF POLYSTYRENE AND CELLULOSE ACETATE
AROD-3630-6 N64-21467 14-07

INFLUENCE OF DISTRIBUTION OF COMPOSITION ON LIGHT SCATTERING OF STYRENE-ACRYLONITRILE COPOLYMER
REPT.-381 N64-24958 17-23

VISCOELASTIC PROPERTIES OF MONODISPERSE POLYSTYRENE
ONR-TR-RLT-81 N64-25784 17-19

EFFECTS OF COMPOSITION AND IRRADIATION ON GLASS TRANSITION TEMPERATURE OF METHYL METHACRYLATE-STYRENE COPOLYMERS N64-28290 20-19

CROSS CHECK STUDY OF VACUUM COMPATIBILITY OF POLYSTYRENE AND POLYMETHYLMETHACRYLATE - WEIGHT LOSS DETERMINATION
NASA-TM-X-53106 N64-33868 24-19

STYROFOAM
VOLUME EFFECTS ON RADAR REFLECTION PROPERTIES OF STYROFOAM N64-24321 17-08

RADAR REFLECTION DETECTION AND MEASUREMENT OF NEAR FIELD OF STYROFOAM CYLINDER N64-24322 17-08

SUBHARMONIC OSCILLATOR
THREE-DIMENSIONAL GRAVITY WAVES, SEICHES GENERATION IN RECTANGULAR TANK, AND SUBHARMONIC PROPAGATION N64-26572 18-11

SUBHARMONIC OSCILLATIONS IN PARAMETRIC DIODES
TN-7 N64-29600 21-09

SUBLIMATION
CF ABLATION
VAPOR PRESSURE, HEAT OF FORMATION, & SUBLIMATION OF NITROGEN & FLUORINE
MR-15 N64-14404 06-19

HEAT OF SUBLIMATION AND HIGH TEMPERATURE YIELD STRENGTH OF ALLOYS N64-17031 09-18

VAPOR PRESSURE AND HEAT OF SUBLIMATION OF BARIUM FLUORIDE
UCRL-11124 N64-17263 09-19

MASS SPECTROMETRIC DETERMINATION OF HEAT OF SUBLIMATION OF LITHIUM FLUORIDES
N64-18814 11-13

SUBLIMATION AND VAPORIZATION BEHAVIOR OF MIXED ALUMINUM-BORON-LITHIUM COMPOUNDS
N64-18819 11-13

PURIFICATION BY SUBLIMATION OF CADMIUM SELENIDE POWDER CONTAINING ZINC IMPURITY
MTER-9 N64-28198 20-25

SUBLIMATION OF GRAPHITE AT HYPERSONIC SPEEDS
R64SD55 N64-31036 22-19

SPACECRAFT APPLICATIONS OF SUBLIMING MATERIALS - BIPHENYL, CAMPHOR, AND NAPHTHALENE
TG-593 N64-33016 24-25

PARAMETERS TO BE SIMULATED IN DYNAMIC TESTING OF SUBLIMING BODIES IN HYPERSONIC FLOW
TR-453 N64-33586 24-02

SUBMARINE
SA ANTISUBMARINE WARFARE
SA NUCLEAR SUBMARINE
SOUND SCATTERING OF STEADY STATE PLANE WAVE BY HOLLOW CYLINDER OF ARBITRARY THICKNESS - SUBMARINE DETECTION

RM-223 N64-10538 01-23

ACCELERATION-OF-GRAVITY MEASUREMENTS BY SUBMARINE GRAVIMETERS
JPRS-17587 N64-10700 02-23

VIBRATION DATA ON SHIPS AND SUBMARINES N64-18554 11-10

ORGANIC CONTAMINANTS - ATMOSPHERE ABOARD SUBMARINE
NRL-6074 N64-19393 12-16

ANALYZER FOR DETECTION OF ORGANIC COMPOUNDS IN ATMOSPHERE OF NUCLEAR SUBMARINE
NRL-6064 N64-19407 12-16

EFFECTS OF ATMOSPHERIC CONTAMINANTS ON SUBMARINE AND SPACECRAFT EQUIPMENT N64-24613 17-16

LOW CYCLE FLEXURAL FATIGUE OF BOTH FERROUS AND NONFERROUS ALLOYS FOR SUBMARINES
NAVENGRXSTA-91-197D N64-24987 17-18

METAL LAMINATES WITH HIGH VIBRATION DAMPING FOR FAIRWATER AND SUPERSTRUCTURE PLATES ON SUBMARINES
REPT.-94-53 N64-28810 20-17

SYNTHESIS AND SELECTION OF PROPULSION SYSTEMS FOR SUBMARINES
MEL-67-64 N64-29238 21-27

IGNITION AND COMBUSTION PROPERTIES OF ACTIVATED CARBON CONTAINING ADSORBED HYDROCARBONS FOR SUBMARINE AIR FILTERS
NRL-6090 N64-29955 21-26

ESTIMATION PARAMETERS TO PREDICT ERRORS IN TRAJECTORY OF SUBMARINE-LAUNCHED BALLISTIC MISSILE
RM-3848-ARPA N64-32598 23-22

SUBMARINE CABLE
DESIGN, PERFORMANCE, AND RELIABILITY OF COMPONENTS FOR TELSTAR SATELLITE FROM SUBMARINE CABLE PROGRAM N64-11080 02-32

SUBMERGED BODY
RESPONSE OF SUBMERGED SPHERICAL SHELLS TO INTERNAL BLAST LOADING
BRL-1231 N64-21805 15-33

COMPLETE EXPRESSIONS FOR GRAVITATIONAL AND BUOYANCY FORCE TERMS IN MOTION EQUATIONS OF SUBMERGED BODY
DTMB-1845 N64-31832 23-11

SUBMERSION
CF IMMERSION
CHANGES IN MORPHOLOGY OF BLOOD IN ATHLETES AFTER UNDERWATER SUBMERSION - RESUSCITATION OF DOGS AFTER DEATH BY ELECTRIC TRAUMA
JPRS-18855 N64-10867 02-16

HIGH PRESSURE NONWELDED HULLS FOR DEPTH SUBMERSION
DTMB-1762 N64-25529 17-17

SUBMILLIMETER WAVE
MILLIMETER & SUBMILLIMETER RECEIVER & DETECTOR TECHNIQUES
NASA-CR-52685 N64-11104 02-23

CORRELATION RADIOMETER FOR MILLIMETER & SUBMILLIMETER WAVELENGTHS
NASA-CR-52684 N64-11230 02-08

ELECTROMAGNETIC RADIATION DETECTION AND STUDY OF TRANSMISSION LINES AT MILLIMETER AND SUBMILLIMETER WAVELENGTHS
RADC-TDR-63-458 N64-12591 04-08

DESIGN AND CONSTRUCTION OF CARCINOTRONS FOR GENERATING SUBMILLIMETER WAVES BY ELECTRON BEAMS
RADC-TDR-64-44 N64-15059 07-09

PRODUCTION OF RADIATION OF SUBMILLIMETER WAVE-LENGTH FROM RELATIVISTIC ELECTRON BEAM
AD-432143 N64-16845 08-23

VIDEO DETECTION TECHNIQUES FOR MILLIMETER AND SUBMILLIMETER WAVES
RADC-TDR-64-28 N64-17962 10-08

RADIOMETRY IN SUBMILLIMETER REGION USING INTERFEROMETRIC MODULATOR N64-19254 11-15

MILLIMETER AND SUBMILLIMETER WAVELENGTH DETECTOR INSTRUMENTS - SUBMILLIMETER RADIOMETER AND CARBON BOLOMETER
NASA-CR-53871 N64-19958 12-08

PRODUCTION OF ELECTRON BEAMS AND DESIGN OF ASSOCIATED BEAM COUPLING STRUCTURES FOR USE IN GENERATING COHERENT POWER IN SUBMILLIMETER REGION
RTD-TDR-63-4212 N64-20404 13-09

ATMOSPHERE TRANSPARENCY MEASUREMENTS IN SUBMILLIMETER WAVE BAND
NASA-TT-F-8931 N64-27134 19-21

GENERATION OF SUBMILLIMETER WAVES BY MEANS OF ELECTRON BEAMS - CARCINOTRON OSCILLATORS
WR-1213 N64-30814 22-09

MASER DEVICES TO GENERATE MILLIMETER AND SUBMILLIMETER WAVES
ITR-2 N64-31191 22-23

FERROELECTRIC BOLOMETER, SEMICONDUCTOR DIODES, AND FERRITE MODULATAOR FOR SUBMILLIMETER WAVE RECEIVER
NASA-CR-58947 N64-33206 24-08

DETECTION, GENERATION, MEASUREMENT, AND RECEIVER TECHNIQUES IN MILLIMETER AND SUBMILLIMETER WAVELENGTH REGIONS
NASA-CR-59335 N64-33775 24-15

SUBSONIC AIRCRAFT
DYNAMICS OF GASES & PLASMAS, AERODYNAMICS OF SUBSONIC VEHICLES, FATIGUE IN METALS AND METAL STRUCTURES, BLAST WAVE PHENOMENA
AD-423576 N64-12972 04-23

PITOT-STATIC PROBE FOR MEASURING STAGNATION PRESSURE AND UNDISTURBED STATIC PRESSURE ON SUBSONIC AND SUPERSONIC AIRCRAFT
RAE-TRANS-1032 N64-16318 08-11

THEORETICAL PERFORMANCE OF SUBSONIC COMBUSTION RAMJET
AFOSR-63-5351-1 N64-22206 15-27

GUST ALLEVIATION FOR SUBSONIC AIRCRAFT
TRECOM-TR-64-1 N64-31951 23-04

SUBSONIC FLOW
EXHAUST NOZZLE RECOMBINATION OF HYDROGEN FUEL IN SUBSONIC RAMJET ENGINES AT HYPERSONIC SPEEDS
NASA-RP-56 N64-10291 01-02

DC ARC DISCHARGE IN PARALLEL SUBSONIC FLOW OF ARGON
NASA-CR-50818 N64-12947 04-24

WALL PRESSURE FLUCTUATIONS IN SUBSONIC TURBULENT BOUNDARY LAYER FLOW N64-13070 04-02

MEASUREMENTS OF FLUCTUATING STATIC AND STAGNATION POINT PRESSURES IN SUBSONIC TURBULENT WAKES
DTMB-1779 N64-19203 11-15

APPLICATION OF FINITE DIFFERENCE METHOD TO NONLINEAR BOUNDARY VALUE PROBLEMS IN MINIMAL SURFACES, GEODESICS, AND SUBSONIC FLOWS
NRC-466 N64-20340 13-20

AERODYNAMIC FORCES ON COMBINATION OF WING AND FIN OSCILLATING IN SUBSONIC FLOW
SAAB-TN-54 N64-20427 13-03

SHOCK TUBE FOR PRODUCING SUBSONIC, TRANSONIC AND SUPERSONIC FLOWS FOR AERODYNAMIC TESTING
SSD-TDR-63-32 N64-22620 15-10

FLOW AROUND PROFILE IN SUBSONIC STREAM WITH LOCAL SUPERSONIC REGION TERMINATED BY COMPRESSION SHOCK N64-23078 16-11

CASCADE FLOW CALCULATIONS FOR SUBSONIC AND SUPERSONIC VELOCITIES AND FOR FLOW CHOKING
N64-23498 16-11

AXISYMMETRIC SUBSONIC AND SUPERSONIC FLOW ON AND NEAR SEGMENTED ROCKETS WITH FINITE CROSS SECTION AT TAIL
DLR-FB-64-10 N64-30829 22-02

SUBSONIC SPEED
THERMODYNAMIC COMPARISON BETWEEN SUBSONIC AND SUPERSONIC FUEL COMBUSTION N64-10135 01-27

LOW-SUBSONIC FLIGHT CHARACTERISTICS OF MODEL SUPERSONIC AIRCRAFT CONFIGURATION WITH PARAWING AS A LANDING AID
NASA-TN-D-2031 N64-10399 01-04

LATERAL CONTROL & HINGE MOMENT OF SPOILER-SLOT-DEFLECTOR ON SWEPTBACK WING AT SUBSONIC SPEED
NASA-TN-D-2037 N64-10617 01-02

HEAT TRANSFER TO SURFACE RECESSED WITHIN FORWARD STAGNATION REGION SLIT UNDER SUBSONIC ARC JET CONDITIONS
NASA-TN-D-2034 N64-11899 03-13

DISLOCATIONS AT SUBSONIC & SUPERSONIC VELOCITIES
N64-13434 05-25

ESTIMATION OF LIFT CHARACTERISTICS OF VERY LOW ASPECT RATIO WINGS AT SUBSONIC SPEEDS
N64-15628 07-03

RELATIONSHIP BETWEEN SUBSONIC AND SUPERSONIC SPEEDS OF FLIGHT AND SAFETY IN CIVIL AVIATION
FFA-96 N64-18149 10-10

BEHAVIOR OF GEMINI SPACECRAFT IN VERTICAL DESCENT AT LOW SUBSONIC SPEEDS - CORRECTIVE EFFECT OF DROGUE PARACHUTE
NASA-TN-D-2191 N64-20282 13-02

DIRECT OSCILLATORY DERIVATIVE MEASUREMENTS FOR LINEAR BENDING MODE ON RIGID HALF-SPAN MODELS AT SUBSONIC AND TRANSONIC SPEEDS IN CLOSED AND SLOTTED WIND TUNNEL
ARC-R&M-3376 N64-33255 24-02

SUBSONIC WIND TUNNEL
SUBSONIC WIND TUNNEL TEST OF JET STREAM SPOILER TO IMPROVE SEPARATION CHARACTERISTICS OF STORE CARRIED BENEATH WING OF HIGH SPEED AIRCRAFT
DTMB-AERO-1059 N64-12057 03-02

SUBSONIC WIND-TUNNEL FACILITY
DVL-344 N64-18488 10-10

SUBSTRATE
EFFECTIVE ELECTRIC POLARIZABILITIES OF METASTABLE ARGON IN SELECTED MAGNETIC SUBSTATES
AD-424934 N64-12831 04-23

DEFLECTRON ENGINEERING - REDESIGN OF NARROW-ANGLE DEFLECTRON, PROCESSING CERAMIC SUBSTRATE CONES, & VACUUM-METALLIZING TECHNIQUES
AD-403324 N64-15369 07-09

PREPARATION OF SILICON SUBSTRATES PRIOR TO EPITAXIAL DEPOSITION
AD-429921 N64-15858 07-17

DEPOSITION OF SILICON OR GERMANIUM FILMS ON POLYCRYSTALLINE INSULATING SUBSTRATES BY VACUUM EVAPORATION
AD-431749 N64-16990 09-25

EPITAXIAL DEPOSITION OF SILICON FILMS ON FOREIGN AND SINGLE CRYSTAL SILICON SUBSTRATES FOR MICROELECTRONICS APPLICATIONS
AD-431993 N64-21370 14-25

CHARACTERISTICS OF ARTIFICIAL SUBSTRATES FOR USE IN CLOSED ECOLOGICAL SYSTEMS N64-23753 16-16

HIGH TEMPERATURE HEATERS FORMED BY VACUUM DEPOSITION ON PLASMA-FLAME SPRAYED DIELECTRIC SUBSTRATES OF ALUMINUM OXIDE
ASD-TDR-62-662 N64-24097 16-13

GRAPHITE MATERIALS - FINE-GRAIN ISOTROPIC GRAPHITE FOR STRUCTURAL AND SUBSTRATE APPLICATIONS
WADD-TR-61-72, VOL. XIII, SUPP N64-26233 18-18

ABSORPTANCE AND EMITTANCE CHARACTERISTICS OF AMORPHOUS PHOSPHATE COATINGS APPLIED TO ALUMINUM FOIL SUBSTRATE - THERMAL CONTROL OF ECHO II SATELLITE
NASA-RP-303 N64-28752 20-19

BONDING MECHANISM BETWEEN PLASMA-SPRAYED TUNGSTEN AND STAINLESS STEEL SUBSTRATE
NASA-TN-D-2461 N64-29336 21-18

GRAPHITE FOR STRUCTURAL AND SUBSTRATE MATERIAL
WADD-TR-61-72, VOL. XIII N64-29426 21-19

WEAR LIFE AND CORROSION PROTECTIVE ABILITY OF SOLID FILM LUBRICANT SUBSTRATES
RIA-64-1377 N64-31310 22-17

SUBSYSTEM
SCIENCE SUBSYSTEM OPERATION FOR RANGER PROJECT FOLLOW-ON SPACECRAFT
NASA-CR-53022 N64-13264 04-28

MICROPOWER MICROELECTRONIC SUBSYSTEMS
N64-26443 18-09

SUCTION
COMPRESSIBLE LAMINAR BOUNDARY LAYER IN PRESSURE GRADIENT WITH SUCTION
PIBAL-807 N64-19141 11-11

LAW OF WALL FLOW FOR TURBULENT BOUNDARY LAYERS WITH SUCTION OR INJECTION
COA-AERO-166 N64-19323 12-11

REDUCTION OF BOUNDARY LAYER THICKNESS IN LOW DENSITY NOZZLES BY WALL SUCTION AND COOLING
NASA-TM-X-53008 N64-20728 13-02

SUDDEN IONOSPHERIC DISTURBANCE /SID/
ANNOTATED BIBLIOGRAPHY ON GEOMAGNETIC STORMS, SUDDEN DISTURBANCES, AND MAGNETOSPHERIC COMPOSITION
NASA-RP-47 N64-10132 01-12

SUDDEN IONOSPHERIC DISTURBANCES AND THEIR EFFECT ON RADIO COMMUNICATION N64-15427 07-12

INFLUENCE OF SUDDEN IONOSPHERIC DISTURBANCES ON BACKSCATTER SOUNDING N64-15439 07-12

SUIT
S PRESSURIZED SUIT
S SPACE SUIT

SULFATE
SULFATE REDUCTION BY BACTERIA
UCRL-10966 N64-11987 03-16

SINGLE CRYSTAL NICKEL OXIDE FROM NICKEL SULFATE BY VERNEUIL METHOD
E-T-J-63-3 N64-12276 03-25

SYNTHESIS OF CRYSTALLIZED GEMS BY FUSING AMMONIA AND ALUM
E-T-F-63-5 N64-13987 05-25

EFFECT OF FLUORIDE, SULFATE, & CHLORIDE IONS ON ADSORPTION OF OLEATE ON FLUORITE AND BARITE
BM-RI-6412 N64-17983 10-25

PHOSPHOR PREPARATION USING CALCIUM SULFATE AND METALLIC ACTIVATORS N64-24566 17-07

PRODUCTION OF TRITIUM BY CONTAINED NUCLEAR EXPLOSIONS IN SALT - REDUCTION OF ALKALINE EARTH SULFATES BY HYDROGEN
ORNL-3334, PT. II N64-27041 19-07

NAPHTHENIC ACID SOLVENT EXTRACTION OF RARE EARTH SULFATES
BM-RI-6396 N64-28456 20-07

PYROELECTRIC CURRENT SENSITIVITY OF TRIGLYCINE SULFATE IN RESPONSE TO ELECTROMAGNETIC RADIATION
NOLC-601 N64-29856 21-25

CHEMICAL REACTIONS OF OXIDES WITH HALIDES, CARBONATES, SULFATES, AND NITRATES
FTR-1964 N64-30665 22-07

SULFATE CYCLE
CF AIR PURIFICATION
SULFATE CYCLE FOR CARBON DIOXIDE REMOVAL AND OXYGEN GENERATION
NRL-6033 N64-21059 14-06

DIAPHRAGMS FOR SULFATE CYCLE ELECTROLYTIC CELL
NRL-5995 N64-23978 16-06

SULFATION
S CHEMICAL REACTION

SULFIDE
SA CADMIUM SULFIDE
SURFACE ENERGY OF OXIDES, SULFIDES, AND SELENIDES
NASA-TT-F-167 N64-11563 03-25

CREATION OF PHOTOACTIVE SURFACE ON LEAD SULFIDE CRYSTALS WITH ELECTRON CONDUCTION AND WITHOUT PHOTOCONDUCTIVE PROPERTIES
FTD-TT-62-1517 N64-11588 03-25

DISLOCATION STRUCTURE IN LEAD SULFIDE CRYSTALS AS REVEALED BY CONCENTRATED STRESS LOADING AND SELECTIVE ETCHING N64-12760 04-25

BIOGEOCHEMISTRY OF SULFUR IN LITHOSPHERE AND BIOGENIC OXIDATION OF HYDROGEN SULFIDE TO SULFUR & SULFATES
JPRS-22672 N64-13007 04-16

CONDUCTION OF HALIDES, SULFIDES, ARSENIDES, AND SOLID ORGANIC COMPOUNDS - DIELECTRIC CONSTANT
N64-14186 06-25

POTASSIUM CHLORIDE CRYSTAL PURIFICATION AND GROWTH IN LIQUID HYDROGEN SULFIDE
AD-407600 N64-14506 06-25

EPITAXIAL DEPOSITION OF THIN FILMS OF LEAD SULFIDE AND TELLURIDE AND TIN TELLURIDE
N64-15116 07-25

PHOTOELECTRIC PROPERTIES OF LEAD SULFIDE IN NEAR AND VACUUM ULTRAVIOLET N64-15302 07-15

HEAT TRANSFER TO ZINC-AIR AND FERROUS SULFIDE-AIR SYSTEMS
NASA-CR-55518 N64-16106 07-13

MASS SPECTROMETRIC STUDIES OF VAPORIZATION OF SULFIDES OF CALCIUM, BARIUM, AND STRONTIUM
WADD-TR-60-782, PT. 21 N64-17970 10-07

POLYSULFIDE GEL COATING MATERIALS FOR RIGID SOLAR ENERGY COLLECTORS
NASA-CR-53355 N64-18105 10-06

RANDOM SCISSION BY STRESS RELAXATION IN POLYSULFIDE & OTHER POLYNETWORKS
ONR-TR-RLT-74 N64-20466 13-19

SULFUR AS PLASTICIZER FOR DISULFIDE POLYMERS
ONR-TR-RLT-78 N64-21163 14-19

FORMATION HEATS AND FREE ENERGIES OF SULFIDES OF MANGANESE, IRON, ZINC, AND CADMIUM
BM-RI-6495 N64-25841 18-07

ELECTRIC RESONANCE OF HYDROGEN SULFIDE AT MICROWAVE FREQUENCIES
OR-3959 N64-30014 21-25

ONE-CENTER SELF-CONSISTENT FIELD MOLECULAR ORBITAL WAVE FUNCTIONS FOR GROUND STATES OF WATER, HYDROGEN SULFIDE, AND HYDROGEN CHLORIDE MOLECULES
N64-30317 22-23

MOLECULAR BEAM APPARATUS, HYDROGEN SULFIDE SPECTROSCOPY, AND MILLIMETER WAVE STUDIES
OR-3408 N64-32140 23-23

SULFITE
RECOVERY OF MOUSE TISSUE FROM RADIATION INJURY BY SODIUM SULFITE OR THIAZOLIDINE TREATMENT
N64-13506 04-16

SULFONE
SOLUBILITY OF ALKALI METAL DINONYLNAPHTHALENE SULFONATES IN SOLVENTS OF VARYING POLARITY AND SOLUBILITY THEORY OF OIL-SOLUBLE SOAPS
NRL-6010 N64-12832 04-07

SOLUBILIZATION OF POLAR COMPOUNDS IN TOLUENE SOLVENT BY SULFONES - ANALYZED BY GAS-LIQUID CHROMATOGRAPHY
NRL-6122 N64-29843 21-07

SULFUR
BIOGEOCHEMISTRY OF SULFUR IN LITHOSPHERE AND BIOGENIC OXIDATION OF HYDROGEN SULFIDE TO SULFUR & SULFATES
JPRS-22672 N64-13007 04-16

DETECTING ELEMENTAL SULFUR IN JET FUELS
FTD-TT-62-1451/1&2&4 N64-16348 08-07

GAS CHROMATOGRAPH FOR DETERMINATION OF GASES IN SUPERHEATED STEAM FROM CALCINATION OF RADIOACTIVE WASTE IN SULFUR
DP-880 N64-20678 13-07

SULFUR AS PLASTICIZER FOR DISULFIDE POLYMERS
ONR-TR-RLT-78 N64-21163 14-19

SULFUR EFFECT ON HOT GAS CORROSION OF SUPERALLOYS IN MARINE ENVIRONMENT
REPT.-3824-64R N64-31631 23-18

ELECTRON EMITTING PROPERTIES OF SMALL CESIUM ANTIMONIDE, ALUMINUM, AND SULFUR PARTICLES
AFCRL-64-689 N64-33531 24-25

INCLUSION COMPLEXES FORMED BY SULFUR, PHOSPHORUS AND MERCURY IN ZEOLITES - SORPTION AND ADSORPTION
AD-447257 N64-33981 24-07

SULFUR CHLORIDE
CHEMICAL REACTIONS OF GASEOUS AMMONIA WITH SULFUR CHLORIDES
UCRL-11081 N64-13219 04-07

SULFUR COMPOUND
MATRIX ELEMENTS IN OCTET OPERATOR OF SULFUR URANIDE ION
URPA-13 N64-10194 01-19

PROTEIN SULFUR COMPOUNDS AND SPIN-LATTICE INTERACTION WITH FREE RADICALS
JPRS-21992 N64-10853 02-01

INTERACTION OF FREE RADICAL FROM INHIBITORS OF ENZYMES WITH PROTEIN SULFUR COMPOUNDS
N64-10854 02-16

ANTIRADIATION ACTIVITY OF SULFUR AMINO ACID COMPOUNDS ON ANIMAL TISSUE N64-12797 04-16

ORAL ADMINISTRATION OF SEROTONIN AND SULFUR DRUGS AND EFFECT ON RADIATION CHANGES OF SPLEEN, THYMUS GLAND, AND INTESTINE ENZYME ACTIVITIES
N64-13504 05-16

DIELECTRIC BREAKDOWN OF LIQUID SULFUR HEXAFLUORIDE AND VARIOUS GASES UNDER HIGH PRESSURE
N64-14187 06-23

SILICON CRYSTALS, NITROGEN-SULFUR SYSTEMS, PHOTOCHEMISTRY, PLASMAS, AND CHELATES USED IN ENERGY CONVERSION SYSTEMS
AFCRL-63-940 N64-15489 07-01

PROPERTIES OF NITROGEN-SULFUR SYSTEMS
N64-15491 07-23

PHOTOCHEMISTRY OF SOME ORGANIC SULFUR COMPOUNDS AND KETONES N64-15492 07-07

PURPLE SULFUR, PURPLE NONSULFUR, AND GREEN SULFUR PHOTOSYNTHESIZING BACTERIA
JPRS-24319 N64-18975 11-16

IMPROVING EASE OF MACHINING OF STEEL CASTINGS BY INTRODUCING SODIUM SULFUR COMPOUNDS INTO MOLTEN

STEEL BEFORE CASTING
FTD-TT-63-352/1&2&4 N64-19216 11-17

OXIDATION OF FERROUS ION IN SOLUTIONS OF SULFAMIC AND NITRIC ACIDS
DP-871 N64-20489 13-07

MASS AND MICROWAVE SPECTRA, STRUCTURES AND DIPOLE MOMENTS OF ISOMERS OF SULFURMONOFLUORIDE
AD-434344 N64-26861 18-07

SYNTHESIS & POLYMERIZATION OF FLUORINATED SULFUR MODIFIED NITROSO RUBBER
QR-2 N64-30560 22-07

CONDUCTANCE OF ALKALI METAL SULFONATES IN POLAR ORGANIC SOLVENTS
NRL-6116 N64-30681 22-07

NAPHTHAZOLETHIONES - COLLECTORS IN FLOTATION OF SULFIDE AND OXIDE ORE OF NONFERROUS METALS
N64-31408 23-07

SULFUR DIOXIDE
SULFUR DIOXIDE ADSORPTION USING MOLECULAR SIEVES - RECOVERY AND REGENERATION OF SIEVES
BM-RI-6321 N64-10254 01-19

SULFURIC ACID
SOLUBILITY, AMINE EXTRACTION, & ION EXCHANGE OF PROTACTINIUM IN SULFATE & SULFURIC ACID
N64-15659 07-07

EFFECT OF DEFORMATION ON ANODIC DISSOLUTION OF PURE POLYCRYSTALLINE MAGNESIUM IN DILUTE SULFURIC ACID
TR-7 N64-23603 16-07

FORMATION HEATS OF HYDROBROMIC & SULFURIC ACIDS AND EFFECTS OF REACTION MEDIA IN BIOCHEMISTRY AND BIOENERGETICS N64-30462 22-07

ARSENIC BEHAVIOR IN PROCESS OF LEACHING ZINC CINDERS IN SULFURIC ACID SOLUTION
N64-31414 23-07

SUN
SA HELIOGRAPHY
SA SOLAR CORPUSCULAR STREAM
PROGRAM FOR COMPUTING STANDARD COORDINATES OF SUN
BRL-MEMO-1517 N64-13322 04-05

INTERFERENCE POLARIZATION FILTER FOR INVESTIGATION OF SUN IN K-LINE OF IONIZED CALCIUM
N64-13691 05-23

EFFECT OF REFRACTION OF SETTING SUN IN SPACE - THEORY & EXPERIMENT
NASA-RP-58 N64-14869 06-12

PHYSICAL PROPERTIES OF SUN - OBSERVED PHENOMENA AND SOLAR RADIATION N64-15287 07-05

EFFECT OF MOON TRIAXIAL POTENTIAL & ATTRACTION OF EARTH, SUN, AND PLANTETS ON STABILITY OF LUNAR SATELLITES
NASA-CR-55973 N64-17680 09-29

HALPHEN METHOD USED TO DETERMINE LONG RANGE EFFECTS OF SUN AND MOON ON SATELLITE ORBITS
NASA-TR-R-176 N64-17826 09-05

DIFFUSION OF PARTICLES FROM SOURCES OF AIR POLLUTION AND CRITERIA FOR LIMITS OF POLLUTION IN TERMS OF SKY BRIGHTNESS NEAR SUN
AFCRL-63-240 N64-18402 10-28

ANGULAR MOMENTUM OF SOLAR INTERNAL & SURFACE LAYERS FOR DENSITY DISTRIBUTION CALCULATIONS
N64-23178 16-29

SUN & SOLAR SYSTEM N64-24493 17-05

LIFE ON PLANETS OF OTHER SUNS N64-24503 17-05

STUDIES OF SUN IN USSR N64-24656 17-05

ECLIPSE FRACTIONS FOR SUN-SYNCHRONOUS ORBITS
SSD-TDR-64-100 N64-26200 18-29

PRECISION MEASUREMENTS OF RADIO EMISSION FROM SUN AND MOON IN 4MM WAVELENGTH BAND
N64-27153 19-05

EFFECTS OF ERRORS IN FACULA-PHOTOSPHERE CONTRAST OBSERVATIONS ON ACCURACY OF FACULA SOURCE FUNCTION DETERMINATIONS
NASA-TT-F-235 N64-29512 21-05

HAYSTACK POINTING COMPUTER PROGRAM FOR OBTAINING CELESTIAL COORDINATES OF SUN
ESD-TDR-64-355 N64-30663 22-05

COMPUTER PROGRAM TO FIND PROJECTION OF SATELLITE ON SURFACE OF ROTATING EARTH AND VEHICLE-SUN ORIENTATION
R64SD42 N64-32851 24-29

SUNFLOWER POWER SYSTEM
PERMEABILITY OF HYDROGEN THROUGH VARIOUS METALS & PERFORMANCE OF SOLAR POWERED CONVERSION SYSTEM - SUNFLOWER
NASA-CR-52962 N64-11800 03-06

PERFORMANCE AND ENDURANCE TESTING OF SUNFLOWER TURBOALTERNATOR COMBINED SHAFT UNIT
NASA-CR-53528 N64-18213 10-06

SUNFLOWER SOLAR RANKINE SYSTEM DEVELOPMENTAL TEST RIGS, MERCURY COMPATABILITY, AND CORROSION PRODUCT TRAPPING EXPERIENCE
ER-5302 N64-18337 10-06

MERCURY HEAT TRANSFER LOOP IN SOLAR POWERED ENGINE - SUNFLOWER POWER SYSTEM
NASA-CR-46 N64-20889 14-06

PERMEATION OF HYDROGEN THROUGH MATERIALS FOR SUNFLOWER POWER SYSTEM
NASA-CR-54004 N64-23206 16-18

PERFORMANCE TESTING OF TURBOALTERNATOR UNIT, SOLAR COLLECTOR, AND LITHIUM HYDRIDE CONTAINMENT CAPSULE FOR SUNFLOWER POWER CONVERSION SYSTEM
NASA-CR-58234 N64-27389 19-06

SOLAR COLLECTOR, TURBO-ALTERNATOR, TEST RIG DESIGN, AND LITHIUM HYDRIDE CONTAINMENT STUDIES FOR SUNFLOWER POWER CONVERSION SYSTEM
NASA-CR-56206 N64-27828 19-06

FLUID DYNAMIC DESIGN CRITERIA FOR MERCURY CONDENSOR-SUBCOOLER COMPONENT FOR SUNFLOWER POWER CONVERSION SYSTEM
NASA-CR-54013 N64-33999 24-06

SUNRISE
SOLAR ACTIVITY AS FUNCTION OF TIME OF RISE
N64-20769 14-28

SUNRISE EFFECTS ON EAST-WEST IONOSPHERIC PROPAGATION PATHS
AFCRL-64-346 N64-24198 16-12

ELECTRON DENSITY IN LOWER IONOSPHERE AT SUNRISE
NASA-TT-F-8695 N64-27276 19-12

SUNSET
ATMOSPHERIC SCINTILLATION OBSERVED AT SUNSET AT 3 CM WAVELENGTH
E-T-F-63-8 N64-25321 17-28

SUNSPOT
CF SOLAR FLARE
HIGH RESOLUTION PHOTOGRAPHY OF SUNSPOT UMBRAS WITH STRATOSCOPE I TELESCOPE N64-16677 08-28

CLASSIFICATION OF SOLAR PROMINENCES OBSERVED FROM SACRAMENTO PEAK OBSERVATORY DURING SUNSPOT CYCLE NUMBER 19, IN 1960
AFCRL-64-93 N64-18262 10-28

CLASSIFICATION OF SOLAR PROMINENCES OBSERVED FROM SACRAMENTO PEAK OBSERVATORY DURING SUNSPOT CYCLE NUMBER 19, IN 1961
AFCRL-64-119 N64-18263 10-28

INSTRUMENTATION FOR STUDY OF SUNSPOTS AND GENERAL SOLAR MAGNETIC FIELDS AT ROME ASTRONOMICAL

OBSERVATORY - SPECTROGRAPHS AND MAGNETOGRAPH
AFCRL-64-114 N64-18584 11-28

SUNSPOT FORECASTING
REPT.-6 N64-21229 14-28

SOLAR RADIO NOISE AND SUNSPOT STRUCTURE
AFCRL-64-335 N64-22299 15-28

DETERMINING THREE COMPONENTS OF MAGNETIC FIELD IN SUNSPOTS
NASA-TT-F-8932 N64-26787 18-29

SECULAR VARIATIONS IN RELATION BETWEEN MAGNETIC FIELD STRENGTH AND AREA OF SHORT-LIVED SUNSPOTS
AFCRL-63-770 N64-26812 18-28

MORPHOLOGICAL PROPERTY OF SUNSPOT GROUPS RELATED TO FLARES INVOLVING RADIO EMISSION
NASA-TT-F-8925 N64-26928 18-05

SECULAR VARIATIONS OF INTERMITTENT AND REVIVAL SUNSPOT GROUPS
AFCRL-64-618 N64-29290 21-28

SECULAR VARIATIONS OF SUNSPOT GROUPS WITH LIFETIMES FROM TWO TO EIGHT DAYS
AFCRL-64-620 N64-29291 21-28

MAGNITUDE AND DIRECTION OF MAGNETIC FIELD IN SUNSPOT REGION
NASA-TT-F-8850 N64-31447 23-28

SUPERALLOY
STAINLESS STEEL, STEEL ALLOYS, & SUPERALLOYS FOR AIRCRAFT & MISSILES
DMIC-MEMO-177 N64-12046 03-18

RESIDUAL STATIC STRENGTH OF TITANIUM & STAINLESS STEEL ALLOYS AND ONE SUPERALLOY AT VARIOUS TEMPERATURES
NASA-TN-D-2045 N64-12104 03-18

NICKEL-BASE AND COBALT-BASE SUPERALLOYS
AD-432123 N64-16838 08-18

ELECTROCHEMICAL RECOVERY OF COBALT-NICKEL ALLOY FROM SUPERALLOY SCRAP
BM-RI-6445 N64-21800 15-07

EFFECT OF STRESS VARIATION ON CREEP OF SUPERALLOY AT ELEVATED TEMPERATURES
ML-TDR-64-166 N64-26904 18-33

MECHANICAL PROPERTIES OF NICKEL-BASE SUPERALLOYS FOR USE IN SUPERSONIC TRANSPORT AIRCRAFT AT HIGH TEMPERATURES
NASA-CR-92 N64-28312 20-18

ULTRASONIC WELDING EQUIPMENT FOR JOINING REFRACTORY METALS AND SUPERALLOYS
RR-64-53 N64-29298 21-17

POWDER METALLURGY OF SUPERALLOY BILLETS - BLEND OF MOLYBDENUM POWDER WITH TITANIUM AND ZIRCONIUM CARBIDE
ASD-7-911/VII/ N64-30902 22-18

STRENGTH AND WORKABILITY OF HIGH TEMPERATURE NICKEL-BASE, COBALT-BASE, AND COBALT-REFRACTORY METAL SUPERALLOYS
NASA-TN-D-2495 N64-31001 22-18

MECHANICAL AND PHYSICAL PROPERTIES OF THREE SUPERALLOYS
DMIC-MEMO-193 N64-32179 23-18

ANNOTATED BIBLIOGRAPHY ON HIGH TEMPERATURE SUPERALLOYS AND PROTECTIVE COATINGS
PDC-SEARCH-63-050 N64-32409 23-18

SPECIMEN CONFIGURATION EFFECTS ON MECHANICAL PROPERTY VALUES FOR SUPERALLOY AND COATED REFRACTORY ALLOYS
SM-44631 N64-32820 24-18

EFFECT OF AVIATION TURBINE HYDROCARBON FUEL PROPERTIES ON CORROSION OF SUPERALLOYS AND ON FLAME RADIATION IN COMBUSTOR
RDR-3753-64R N64-33849 24-26

SUPERCAVITATING FLOW
EFFECTS OF TRANSVERSE GRAVITY FIELD IN SUPERCAVITATING FLOW PAST SLENDER WEDGE
TR-32 N64-27765 19-11

SUPERCAVITATING HYDROFOILS - CASCADE FLOW, CONVECTIVE HEAT TRANSFER, WALL EFFECTS, AND PRESSURE DISTRIBUTION N64-31429 23-11

SUPERCAVITATING HYDROFOILS AT ARBITRARY CAVITATION COEFFICIENT AND LIFT-DRAG RATIOS
REPT.-141 N64-31430 23-11

TWO-DIMENSIONAL THEORY OF WALL AND BOUNDARY EFFECTS ON SUPERCAVITATING HYDROFOIL PERFORMANCE
REPT.-145 N64-31434 23-11

SUPERCAVITATING FLOW THROUGH ARBITRARY FORM HYDROFOIL
REPT.-146 N64-31435 23-11

EXPERIMENTS ON JET FLAP IN SUPERCAVITATING FLOW N64-31589 23-03

ANALYSIS OF TWO-DIMENSIONAL SUPERCAVITATING FLAT PLATE OSCILLATING UNDER FREE SURFACE BY LINEAR ACCELERATION POTENTIAL
AD-603160 N64-31830 23-03

LINEARIZED THEORY FOR SUPERCAVITATING HYDROFOIL OPERATION IN FLUID OF FINITE DEPTH
TR-119-7 N64-33651 24-11

SUPERCAVITATION
NONLINEAR THEORY FOR SUPERCAVITATING FLOW PAST WEDGE IN LONGITUDINAL GRAVITY FIELD
AD-430045 N64-15945 07-02

EXPERIMENTAL DATA OF SUPERCAVITATING HYDROFOILS WITH FLAPS
GD/C-63-210, APP. A N64-17338 09-03

PERFORMANCE CHARACTERISTICS OF THREE TYPES OF SUPERCAVITATING HYDROFOILS WITH AND WITHOUT FORCED VENTILATION
DTMB-1828 N64-21103 14-03

LIFT AND DRAG MEASUREMENTS ON SUPERCAVITATING HYDROFOIL
TR-343-1 N64-21357 14-03

WATER TUNNEL PERFORMANCE OF SUPERCAVITATING PROPELLER
DTMB-1432 N64-24850 17-03

NONSTEADY HYDRODYNAMIC CHARACTERISTICS OF SUPERCAVITATING HYDROFOIL UNDER FREE SURFACE
TR-463-2 N64-25703 17-04

SYMMETRIC WEDGE FLOW, PARTIALLY CAVITATING HYDROFOILS, UNSTEADY CAVITY FLOW, AND SUPERCAVITATING HYDROFOILS
AD-600144 N64-28026 20-11

HYDRODYNAMIC CHARACTERISTICS OF BASE-VENTED AND SUPERCAVITATING STRUTS FOR HYDROFOIL SHIPS - PHOTOGRAPHS AND GRAPHS
REPT.-2796, VOL. II N64-30593 22-11

HYDRODYNAMIC CHARACTERISTICS OF BASE-VENTED AND SUPERCAVITATING STRUTS FOR HYDROFOIL BOATS
REPT.-2796, VOL. I N64-30597 22-11

SUPERCONDUCTIVITY
CF ELECTRIC CONDUCTIVITY
SUPERCONDUCTIVITY - BIBLIOGRAPHY
LMSC-6-90-63-43 N64-10405 01-25

FLUX QUANTIZATION IN SUPERCONDUCTORS - THIN SUPERCONDUCTING CYLINDRICAL TUBE N64-13140 04-23

CRITICAL CURRENT, TEMPERATURE, & FIELD OF COMPOSITE NIOBIUM-TIN SUPERCONDUCTING SYSTEMS
SR-7 N64-13595 05-23

ELECTRON-PHONON INTERACTION SUPERCONDUCTIVITY

IN TRANSITION METALS N64-15274 07-23

ISOTOPE EFFECT IN SUPERCONDUCTIVITY
N64-15309 07-23

MAGNETORESISTANCE AND SUPERCONDUCTIVITY FOR APPLICATION TO DC TO AC CONVERSION
NASA-CR-53083 N64-16750 08-06

SUPERCONDUCTIVE EFFECTS IN THIN FILMS
C-64380 N64-20400 13-25

OPTICAL IMAGE CONVERTERS - BIBLIOGRAPHY
SB-64-5 N64-20498 13-15

BIBLIOGRAPHY ON SUPERCONDUCTIVITY
SB-63-33 N64-20500 13-23

ROTATING MACHINERY USING SUPERCONDUCTORS
AVCO-EVERETT RES. REPT.-181 N64-21154 14-06

USE OF GREEN FUNCTION TO DETERMINE ELECTRIC FIELD DISTRIBUTION OF CONDUCTOR ABOVE SUPERCONDUCTING GROUND PLANE
NASA-RP-187 N64-22067 15-25

KINETICS OF DISRUPTING SUPERCONDUCTIVITY BY VARIABLE FIELD
FTD-TT-62-1716/1&2 N64-22147 15-25

SUPERCONDUCTIVITY - ELECTROSTATIC REPULSION OF ELECTRONS
FTD-TT-62-1714/1&2 N64-22393 15-25

SUPERCONDUCTIVE INTERMETALLIC COMPOUNDS
REPT.-64-RL-3540M N64-23017 16-18

EQUIVALENT CIRCUIT FOR DISTRIBUTED ENERGY CONVERTERS
NASA-RP-202 N64-23913 16-06

STRUCTURE OF FERMION DENSITY MATRICES - WAVE FUNCTIONS OF BARDEEN-COOPER-SCHIEFFER TYPE & SUPERCONDUCTIVITY
TN-103 N64-24757 17-23

PLASMA PHYSICS, ELECTRON-CYCLOTRON HEATING, CROSS-SECTION MEASUREMENTS, ION AND ATOMIC BEAMS, MAGNETICS AND SUPERCONDUCTIVITY, & VACUUM SYSTEMS
ORNL-3652 N64-25293 17-23

MAGNETIC FIELD PRODUCTION - PULSED AND CONTINUOUS COIL STRESSES, SUPERCONDUCTIVITY, PLASMA AND FUSION PHYSICS, AND PARTICLE PHYSICS
ATD-P-64-46 N64-26298 18-23

EFFECTS OF LIQUID-HELIUM-TEMPERATURE PLASTIC DEFORMATION ON SUPERCONDUCTIVITY TRANSITIONS IN LEAD-INDIUM ALLOYS
NASA-CR-58135 N64-26594 18-23

DESIGN OF TRAPPED-FLUX SUPERCONDUCTIVE MEMORIES FOR ELECTRONIC COMPUTERS
JPRS-25634 N64-27320 19-09

SUPERCONDUCTIVE MEMORY ELEMENTS FOR COMPUTER TECHNOLOGY
JPRS-25648 N64-27321 19-09

THEORY OF SUPERCONDUCTIVITY AND BEHAVIOR OF SUPERCONDUCTORS IN HIGH FREQUENCY ELECTROMAGNETIC FIELDS
N64-29068 21-23

SUPERCONDUCTING, MAGNETICALLY SUPPORTED, SPINNING ROTOR
NASA-CR-108 N64-31204 22-25

MAGNETOHYDRODYNAMICS AND SUPERCONDUCTIVITY - INTERACTIONS OF PLASMA FLOWS IN MAGNETIC FIELDS
UAPL-15 N64-31619 23-24

THERMAL TEST MODEL AND REFRIGERATION SYSTEM FOR SUPERCONDUCTING ROTATING ELECTRIC GENERATOR
REPT.-428 N64-31709 23-06

EFFECT OF TEMPERATURE VARIATIONS, THICKNESS OF SUPERCONDUCTING LAYERS, AND LEAD, TIN, & INDIUM ON FLUX DECAY DUE TO ALPHA PARTICLE IRRADIATION
LNF-64/35 N64-32004 23-25

CRYOGENIC AND SUPERCONDUCTING DEVICES
N64-32773 24-25

SUPERCONDUCTIVITY OF INDIUM AND TIN UNDER UNIFORM COMPRESSION
NASA-TT-F-9152 N64-33409 24-25

MAGNETORESISTANCE, SUPERCONDUCTIVITY, AND HALL EFFECT FOR INVERTER APPLICATION
NASA-CR-59188 N64-33676 24-25

SUPERCONDUCTOR
X-RAY ABSORPTION & EMISSION SPECTRA AND ELECTRONIC STRUCTURE OF ATOMS OF SUPERCONDUCTING COMPOUNDS
JPRS-22588 N64-12148 03-23

WEAK UNIFORM MAGNETIC FIELD POLARIZING ELECTRON SPINS OF SUPERCONDUCTOR - NONVANISHING PARAMAGNETIC SUSCEPTIBILITY
LNF-63/71 N64-13024 04-23

MAGNETIC FIELD PRODUCTION BY SUPERCONDUCTORS
AERE-M-1207 N64-13944 05-23

SUPERCONDUCTIVE EFFECTS IN ALUMINUM AND TIN THIN FILMS
C-64380 N64-13955 05-23

SUPERCONDUCTOR PROPERTIES, NEUTRINO TWO-DIMENSIONAL FIELD THEORY MODELS, NUCLEON CALCULATIONS
AROD-280012 N64-13992 05-23

PERFORMANCE PREDICTION FOR SUPERCONDUCTING COIL IN SOLENOIDS
LNF-63/67 N64-14448 06-23

SUPERCONDUCTING NIOBIUM-TIN SOLENOID
REPT.-63-RL-3397/M/ N64-14917 06-23

PROPERTIES OF SUPERCONDUCTING ALLOYS CONTAINING PARAMAGNETIC IMPURITIES
AD-437194 N64-20155 13-25

ULTRASONIC ATTENUATION IN SUPERCONDUCTING LEAD
N64-20694 13-25

HOLLOW SPHERE OR CYLINDER SUPERCONDUCTORS IN MAGNETIC FIELD N64-20720 13-23

MEASURING EXPERIMENTS ON SUPERCONDUCTORS USING MEISSNER EFFECT
ONERA-TP-112 N64-23499 16-24

LOW TEMPERATURE, SUPERCONDUCTING COMPUTING ELEMENTS
REPT.-8971-6009-RU-000 N64-24001 16-13

APPARATUS FOR MEASURING VARIATION WITH TEMPERATURE OF CURRENT CARRYING CAPACITY OF SUPERCONDUCTING MATERIAL AS FUNCTION OF EXTERNALLY APPLIED MAGNETIC FIELD
AMP-141 N64-25758 17-09

SURFACE AND ATOMIC PHYSICS, COMPUTER DESIGNS, PLASMA PHYSICS, SYSTEM DESIGNS, MAGNETIC SUPERCONDUCTORS, VOLTAGE BREAKDOWN, AND THIN FILMS RESEARCH
AD-438840 N64-25885 18-01

SUPERCONDUCTING SYSTEM FOR TRAPPING AND DETECTING QUANTUM VALUES OF FLUX - QUANTIZER
SEL-63-128 N64-25990 18-09

SUPERCONDUCTING-TO-NORMAL CONDUCTING TRANSITIONS IN STRIP TRANSMISSION LINES
NASA-RP-244 N64-26073 18-23

ELECTRON TUNNELING BETWEEN SUPERCONDUCTORS THROUGH THIN FILM DIELECTRIC STRUCTURES
AL-TDR-64-46 N64-26292 18-25

HIGH FIELD MAGNET USED TO STUDY PROPERTIES OF SUPERCONDUCTORS
CERN-64-23 N64-26528 18-23

X-RAY SPECTRA OF SUPERCONDUCTORS
JPRS-25289 N64-27176 19-25

ELECTRON X-RAY SPECTRA OF SUPERCONDUCTORS
N64-27177 19-25

X-RAY SPECTRUM OF SUPERCONDUCTOR COMPOUND COPPER SULFIDE
N64-27178 19-25

ELECTRICAL, THERMAL, AND MAGNETIC EFFECTS IN SUPERCONDUCTORS - DESIGN OF EXPERIMENTS AND TEST APPARATUS
DYNATECH-485 N64-29625 21-25

SUPERCONDUCTING NIOBIUM-THORIUM AND NIOBIUM-TITANIUM EUTECTIC ALLOYS
NASA-CR-54103 N64-29709 21-18

ELECTRICAL AND MAGNETIC PROPERTIES OF ALLOYS FOR FERROMAGNETIC SUPERCONDUCTORS
RADC-TDR-64-188 N64-30938 22-25

FACTORS AFFECTING LOSSES IN ALTERNATING CURRENT SUPERCONDUCTIVITY OF MATERIALS
PR-2 N64-32558 23-25

POTENTIAL ADVANTAGES OF ANISOTROPIC SUPERCONDUCTOR IN FORCE-FREE SOLENOID
NASA-TN-D-2156 N64-32636 23-23

NIOBIUM-TIN ALLOY SUPERCONDUCTOR
JPRS-26862 N64-32746 24-25

CURRENT DEGRADATION PHENOMENON IN SUPERCONDUCTING SOLENOIDS
NASA-CR-59369 N64-33921 24-25

SUPERHEATING
ALLOY MATERIALS FOR SUPERHEAT FUEL SHEATHS
GEAP-4351 N64-16550 08-18

SUPERNOVA
SHOCK RELATIONS AND HEATING EFFECTS IN VERY DENSE, VERY-HIGH-TEMPERATURE GAS AND SIGNIFICANCE IN SUPERNOVA PHENOMENON AND WHITE DWARF STARS
AFCRL-63-898 N64-12298 03-23

COSMIC RAYS FROM SUPERNOVA STARS
UCRL-7551 N64-14061 05-28

CORRELATION OF FREQUENCY OF OCCURENCE OF SUPER-NOVAE WITH THEORIES OF MASS LOSS AND NEUTRINO EMISSION FROM RED GIANTS N64-15310 07-05

X-RAY PRODUCTION IN SUPERNOVA REMNANTS - HYPOTHESES FOR EXISTENCE OF X-RAY SOURCE IN CONSTELLATION SCORPIO
NASA-CR-53591 N64-18431 10-05

SUPERNOVAE, NEUTRINOS, AND NEUTRON STARS - FINAL STAGE OF STELLAR EVOLUTION N64-22079 15-29

SUPERNOVAE, NEUTRINOS & NEUTRON STARS
NASA-TN-D-2112 N64-22572 15-05

ORIGIN OF COSMIC RAYS IN SUPERNOVAE
NRL-5951 N64-25333 17-28

MAGNETIC FIELDS OF COLLAPSING MASSES AND NATURE OF SUPERNOVAE
NASA-TT-F-8910 N64-25615 17-05

GRAVITATIONAL WAVES & SUPERSTARS
NASA-TT-F-8913 N64-25620 17-05

THEORY OF RELATIVITY APPLIED TO SUPERSTARS AND GRAVITATIONAL WAVE COLLAPSE
JPRS-25399 N64-25787 17-29

SUPERSONIC AIRCRAFT
LOW-SUBSONIC FLIGHT CHARACTERISTICS OF MODEL SUPERSONIC AIRCRAFT CONFIGURATION WITH PARAWING AS A LANDING AID
NASA-TN-D-2031 N64-10399 01-04

MEASUREMENTS OF SHOCK WAVE OVERPRESSURES FROM AIRPLANES AT ALTITUDES TO 75,000 FEET & SUPERSONIC SPEED
NASA-TN-D-2021 N64-10451 01-04

ANALOG SIMULATION OF ATTACK WARNING SYSTEM FOR SUPERSONIC AIRCRAFT
ASD-TDR-63-850 N64-11456 03-20

FUTURE SUPERSONIC TRANSPORT AIRCRAFT AND AIRPORTS
JPRS-22142 N64-11786 03-18

CLIMATOLOGY OF UPPER AIR RELATED TO DESIGN AND OPERATION OF SUPERSONIC AIRCRAFT
N64-11943 03-21

ANALYTICAL EXAMINATION OF DYNAMIC STABILITY OF SUPERSONIC TRANSPORT AIR INLET AND THRUSTOR
LR-16261-3 N64-14808 06-27

PROBLEMS OF VISUAL PERCEPTION AND REACTION TIME FOR PREVENTION OF SUPERSONIC AIRCRAFT COLLISIONS
N64-15047 07-16

FLIGHT PATH AND ATMOSPHERIC VARIATION EFFECTS ON BOOM PROPAGATED FROM SUPERSONIC AIRCRAFT
NASA-TR-R-191 N64-15406 07-23

PITOT-STATIC PROBE FOR MEASURING STAGNATION PRESSURE AND UNDISTURBED STATIC PRESSURE ON SUBSONIC AND SUPERSONIC AIRCRAFT
RAE-TRANS-1032 N64-16318 08-11

DEVELOPMENT OF AEROTHERMODYNAMIC PROCEDURES FOR DESIGNING HIGH SPEED VEHICLE LEADING EDGES
NA63H-982 N64-17123 09-13

FIXED-GEOMETRY TWO-DIMENSIONAL SUPERSONIC COMBUSTION RAMJETS
NASA-TM-X-52032 N64-20578 13-27

TURBULENT BASE FLOW BEHIND SLENDER SUPERSONIC REENTRY VEHICLES
DOC.-63SD849 N64-21566 15-02

SUPERSONIC AIRCRAFT, MANNED SPACE FLIGHT SIMULATION, ELECTRONIC COMPUTERS, AND MAGNETOPLASMADYNAMICS RESEARCH N64-22417 15-29

LOW-SPEED LONGITUDINAL AERODYNAMIC INVESTIGATION OF PARAWINGS AS AUXILIARY LIFTING DEVICES FOR SUPERSONIC AIRCRAFT CONFIGURATION
NASA-TN-D-2346 N64-24589 17-03

NOISE AND SONIC BOOM IN OPERATION OF SUPERSONIC AIRCRAFT
AIAA PAPER-64-548 N64-25361 17-04

WIND TUNNEL STUDY OF FAVORABLE INTERFERENCE TO INCREASE LIFT-DRAG RATIOS OF SUPERSONIC AIRCRAFT - OPTIMIZED WING-BODY-INLET CONFIGURATION
DTMB-AERO-1063, PT. II N64-28911 20-02

TECHNOLOGICAL FORECAST OF PASSENGER-CARRYING SUPERSONIC AIRCRAFT
FTD-TT-64-575/1&2&3&4 N64-30133 21-04

FUEL CONSUMPTION FOR TURBINE JET ENGINES - FUEL COMPONENTS
FTD-TT-64-349/1&2 N64-30544 22-24

AIR INTAKE DIFFUSERS FOR SUPERSONIC AIRCRAFT
FTD-MT-64-301 N64-32243 23-27

SUPERSONIC COMBUSTION RAMJET MISSILE /SCRAM/
PERFORMANCE OF SUPERSONIC COMBUSTION RAMJETS AT HYPERSONIC FLIGHT SPEED
AIAA PAPER-64-248 N64-23346 14-17

INTAKE EFFICIENCY PARAMETERS FOR SUPERSONIC COMBUSTION RAMJET ENGINE
ASRPR-TM-62-68 N64-24215 16-27

SUPERSONIC FLIGHT
SHOCK WAVE PROPAGATION IN SUPERSONIC FLIGHT - SONIC BOOM
TP-118 N64-23150 14-01

NOISE PROBLEMS OF SUPERSONIC FLIGHT AND AIRCRAFT STRUCTURE N64-24960 17-29

LOW DRAG BOUNDARY LAYER CONTROL AND LAMINAR FLOW CONTROL FOR OPTIMUM SUPERSONIC FLIGHT
NOR-64-142 N64-32656 23-15

SUPERSONIC FLOW
BOUNDARY LAYER DRAG OF BODIES WITH SWEPT TRAILING EDGES IN SUPERSONIC FLOW
ARC-CP-699 N64-10241 01-11

FLUCTUATING WALL PRESSURE UNDER SEPARATED, SUPERSONIC, TURBULENT BOUNDARY LAYER
NASA-CR-52528 N64-10441 01-11

CAMBER FLUTTER CHARACTERISTICS OF MONOCOQUE AND MULTIWEB WINGS SUBJECTED TO SUPERSONIC FLOW
NASA-TR-R-150 N64-10468 01-03

SUPERSONIC FLOW OF IDEAL GAS PAST PLANE TRIANGULAR WING WITH POSITIVE ANGLE OF ATTACK
N64-12485 04-03

VIBRATIONS OF ELASTIC STRUCTURES OF CIRCULAR CYLINDRICAL FORM IN SUPERSONIC FLUID FLOW
FTD-TT-63-744/1&2&3 N64-12631 04-33

AXISYMMETRIC SUPERSONIC FLOW AROUND BODIES OF REVOLUTION, WITH COMPRESSION SHOCKS AND ANGULAR EXPANSION CONSIDERATIONS
OVL-275 N64-13347 04-11

HEAT EXCHANGE IN RAREFIED GAS AT SUPERSONIC SPEEDS
RR-3016-PR N64-14296 06-13

PRANDTL NUMBER DISTRIBUTION IN TURBULENT BOUNDARY LAYERS WITH HEAT TRANSFER AT SUPERSONIC SPEEDS
DRL-508 N64-14303 06-11

PRESSURE DISTRIBUTION IN WAKE OF TWO BODIES OF REVOLUTION AT TRANSONIC AND SUPERSONIC SPEEDS
ASD-TDR-62-1104 N64-14364 06-02

SIDE FORCES GENERATED BY LATERAL INJECTION OF SONIC GAS JETS AND PROBE IMMERSION INTO CONSTANT AREA SUPERSONIC DUCT FLOW - THRUST VECTOR CONTROL
N64-15633 07-11

TURBULENT WAKE FLOW AT SUPERSONIC SPEED
NASA-CR-55718 N64-15888 07-11

HYPERSONIC AND SUPERSONIC FLOW WITH SEPARATION ZONES
AD-430303 N64-16388 08-02

FORWARD SEPARATION ZONES - CONFIGURATION DURING SUPERSONIC GAS FLOW AROUND SYMMETRICAL BODIES AT ZERO ANGLE OF ATTACK N64-16389 08-02

IDEAL-GAS TABLES FOR OBLIQUE-SHOCK FLOW PARAMETERS IN AIR AT MACH NUMBERS FROM 1.05 TO 12.0
NASA-TN-D-2221 N64-17160 09-11

LEAKAGE OF SUPERSONIC AIR FLOW INTO WATER THROUGH LAVAL NOZZLE N64-17178 09-02

PRESSURE AND TEMPERATURE MEASUREMENT FOR SUDDEN EXPANSION OF PLANE OR AXISYMMETRIC, SONIC OR SUPERSONIC FLOW N64-17185 09-11

FLUTTER OF THIN WALLED CIRCULAR CYLINDER OF FINITE LENGTH IN SUPERSONIC FLOW N64-17551 09-33

DIGITAL COMPUTER PROGRAM FOR ANALYZING SUPERSONIC POTENTIAL FLOW IN DUCTS WITH UNIFORM INLET CONDITIONS
ARC-CP-649 N64-18155 10-20

WIND-TUNNEL STUDY ON DRAG OF PARALLEL CIRCULAR CYLINDERS IN SUPERSONIC FLOW N64-18482 10-02

SUPERSONIC EXPIRATION OF IDEAL ADIABATIC COMPRESSIBLE GAS FROM ASYMMETRIC VESSELS WITH FLAT PARALLEL WALLS WITH MAXIMUM EXPENDITURE
FTD-MT-63-32/1&2 N64-18667 11-02

OSCILLATION OF ELASTIC SOLID PANEL BORDERING SUPERSONIC FLOW OF GAS
FTD-MT-63-143 N64-18685 11-11

ITERATIVE SOLUTION OF INVISCID FLOW FIELD ABOUT SUPERSONIC AXISYMMETRIC BLUNT BODY - FLOW EQUATIONS
R-72 N64-18699 11-02

ENERGY, ENTROPY, AND GAS EXPENDITURE IN NONUNIFORM SUPERSONIC GAS FLOW
FTD-MT-63-91/1&2 N64-18759 11-11

TABLES FOR SUPERSONIC FLOW AROUND RIGHT CIRCULAR CONES AT ZERO ANGLE OF ATTACK
NASA-SP-3004 N64-18949 11-02

SUPERSONIC AND HYPERSONIC FLOW BEHIND CURVED SHOCK WAVES
REPT.-64-2 N64-19027 11-02

STEPWISE DISTRIBUTION EFFECT OF HEAT TRANSFER ON SUPERSONIC FLOW OVER FLAT PLATE
TCEA-TN-13 N64-19039 11-13

AERODYNAMIC FORCE AND KINETIC ENERGY OF PARTICLES IMPINGING ON BODY IN SUPERSONIC FLIGHT
FTD-TT-63-361/1&2&4 N64-19217 11-11

FLUTTER CHARACTERISTICS OF CURVED AND FLAT SANDWICH PANELS SUBJECTED TO SUPERSONIC FLOW
NASA-TN-D-2192 N64-19722 12-33

HIGH ENTHALPY SHOCK TUNNEL FOR PRODUCING HIGH ELECTRON DENSITY PLASMA - ELECTRON RECOMBINATION STUDIES N64-19831 12-24

SUPERSONIC FLOW PAST WEDGE, HYDRODYNAMIC EQUATIONS WITH RADIATION, AND PROTON SYNCHROTRON THEORY
FTD-TT-62-958/1&2 N64-20363 13-01

SUPERSONIC GAS FLOW PAST WEDGE N64-20364 13-02

NONSTEADY FLUTTER OF PLATES AND SLANTED SHELLS IN SUPERSONIC GAS FLOW N64-20369 13-33

OPTICAL TECHNIQUES FOR TEMPERATURE AND CONCENTRATION MEASUREMENTS OF COMBUSTION PRODUCTS IN SUPERSONIC STREAMS
AIAA PAPER-64-536 N64-20472 13-26

DUAL DUCT SYSTEMS IN SUPERSONIC FLOW
TP-32/1963/ N64-21001 14-02

HEAT TRANSFER ON MELTING SURFACE OF BODY IN SUPERSONIC FLOW - EFFECT OF FEEDING MOLTEN METAL THROUGH POROUS WALL
FTD-TT-62-1328/1&2&4 N64-21225 14-13

SUPERSONIC TWO-DIMENSIONAL AND AXISYMMETRIC NONEQUILIBRIUM FLOW THEORY AND CALCULATIONS FOR AXISYMMETRIC FLOW THROUGH NOZZLES
NASA-TR-R-164 N64-21257 14-11

MODIFICATION OF SUPERSONIC FLOW FIELDS UNDER NEAR SPACE CONDITIONS BY CRYOPUMPING
AEDC-TDR-64-66 N64-21717 15-13

BASE PRESSURE BEHIND TWO-DIMENSIONAL AND AXIALLY SYMMETRIC BACKWARD FACING STEPS IN TURBULENT SUPERSONIC FLOW
TAE-31 N64-21789 15-11

SURFACE PRESSURE MEASUREMENTS FOR SEPARATION OF SUPERSONIC TURBULENT BOUNDARY LAYER FLOW
SM-43062 N64-22007 15-11

CHANGES IN STAGNATION CONDITIONS OF CONDENSING FLUID AT SUBSONIC AND SUPERSONIC VELOCITIES
UNC-5047 N64-22285 15-11

SHOCK TUBE FOR PRODUCING SUBSONIC, TRANSONIC AND SUPERSONIC FLOWS FOR AERODYNAMIC TESTING
SSD-TDR-63-32 N64-22620 15-10

LINEAR EQUATIONS FOR CALCULATION OF AXISYMMETRICAL SUPERSONIC GAS FLOWS
FTD-TT-62-1802/1&2&4 N64-22636 15-11

CORRELATION GRAPHS FOR SUPERSONIC FLOW OVER RIGHT CIRCULAR CONES
NASA-TN-D-2339 N64-22673 15-02

INVISCID SUPERSONIC FLOW FIELDS AROUND TWO-DIMENSIONAL AND AXISYMMETRIC BODIES AT ZERO ANGLE OF ATTACK
D2-10598 N64-23382 16-11

CASCADE FLOW CALCULATIONS FOR SUBSONIC AND SUPERSONIC VELOCITIES AND FOR FLOW CHOKING
N64-23498 16-11

SUPERSONIC FLOW PAST BLUNT BODIES AND THERMODYNAMICS OF IONIZED GASES
FTD-TT-63-211/1&2 N64-23598 16-01

SUPERSONIC FLOW OF NONVISCOUS PERFECT GAS PAST BLUNT BODIES N64-23599 16-02

HYPERSONIC & SUPERSONIC FLOWS, BOUNDARY LAYERS, STAGNATION REGIONS, PLASMA ACCELERATION, AND SHOCK TUNNEL EQUATION
FTD-TT-63-79/1&2 N64-23676 16-01

BEHAVIOR OF AERODYNAMICALLY HEATED PLATES AND SHELLS IN SUPERSONIC GAS FLOW N64-23682 16-11

WALL PRESSURE FLUCTUATIONS UNDER TURBULENT SEPARATED SUPERSONIC FLOW
NASA-CR-56564 N64-23988 16-11

MICROWAVE BACKSCATTERING FROM SUPERSONIC PLASMA FLOWS N64-24311 17-08

SUPERSONIC FLOW AROUND RIGHT CIRCULAR CONES AT SMALL ANGLES OF ATTACK
NASA-SP-3007 N64-25017 17-02

NUMERICAL CALCULATION OF SUPERSONIC FLOW OF PERFECT GAS OVER BODY OF REVOLUTION AT SMALL ANGLE OF REVOLUTION
NASA-TN-D-2390 N64-25809 17-02

HEAT TRANSFER AND PRESSURES ON CIRCULAR CYLINDER SWEPT BY SUPERSONIC FLOW NEAR INTERSECTION WITH WEDGE AND FLAT PLATE
NASA-TN-D-2020 N64-25910 18-13

SPECTROSCOPY OF SUPERSONIC PLASMA - EXCITATION MECHANISM
AEDC-TDR-64-151 N64-26217 18-24

SUPERSONIC FLOW, CHEMICAL PROCESSES, AND RADIATIVE TRANSFER N64-26326 18-11

STABLE COMBUSTION IN WAKES FORMED IN SUPERSONIC STREAM N64-26331 18-11

DECELERATION OF SUPERSONIC AIRSTREAMS IN STRAIGHT PASSAGES OF CONSTANT CROSS SECTIONAL AREA
ARL-64-81 N64-26952 18-02

THEORY & TECHNIQUES FOR CALCULATING SUPERSONIC NONVISCOUS FLOW N64-27210 19-11

INTEGRAL RELATIONS METHOD APPLIED TO SUPERSONIC NONEQUILIBRIUM FLOW PAST WEDGES AND CONES
NASA-TR-R-205 N64-28011 20-11

ATOMIZATION OF LIQUID IN SUPERSONIC FLOW
FTD-MT-63-186 N64-28170 20-26

AXISYMMETRIC OSCILLATIONS OF CYLINDRICAL SHELLS IN SUPERSONIC GAS FLOW N64-28173 20-02

FLUID DYNAMICS, SUPERSONIC FLOW, GAS FLOW, METALLURGY, ELASTICITY, SHOCK WAVES, STRESS, DEFORMATION, AND SPACE VEHICLE REENTRY
JPRS-26019 N64-28469 20-01

SUPERSONIC GAS FLOW OVER THIN PLATE WITH DETACHED SHOCK WAVE N64-28471 20-11

AXIALLY SYMMETRIC OSCILLATIONS OF CYLINDRICAL SHELLS IN SUPERSONIC GAS FLOW N64-28482 20-33

PRESSURE BEHIND WEDGE IN SUPERSONIC FLOW WITH LAMINAR MIXING N64-28487 20-11

COMPUTATION OF SUPERSONIC FLOW PAST YAWED CONES BY METHOD OF INTEGRAL RELATIONS
AS-64-7 N64-28559 20-11

SUPERSONIC FLOW PAST BODIES OF REVOLUTION SUBJECT TO ELASTIC HARMONIC VIBRATIONS
NASA-TT-F-9024 N64-29009 20-02

DYNAMIC STABILITY OF SHORT CYLINDRICAL SHELLS & CURVILINEAR PANELS IN SUPERSONIC GAS FLOW
FTD-TT-63-1227/1&2 N64-29028 21-03

CALCULATION OF NONLINEAR SUPERSONIC CONICAL FLOWS USING INTEGRAL RELATIONS METHOD
FDL-TDR-64-7 N64-30125 21-11

SUPERSONIC FLOW CAPABILITY OF ALTITUDE TEST FACILITY FOR AERODYNAMIC RESEARCH AND FREE JET AIR BREATHING ENGINE TESTING
NATTS-ATL-92 N64-30184 21-10

FLOW CHARACTERISTICS AND DRAG DUE TO SUPERSONIC JETS DISCHARGING UPSTREAM INTO SUPERSONIC FLOW
AD-603354 N64-30661 22-11

AXISYMMETRIC SUBSONIC AND SUPERSONIC FLOW ON AND NEAR SEGMENTED ROCKETS WITH FINITE CROSS SECTION AT TAIL
DLR-FB-64-10 N64-30829 22-02

LATERAL PARTICLE INJECTION THROUGH JET NOZZLE INTO SUPERSONIC AIRSTREAM
AEDC-TDR-64-181 N64-31067 22-11

SUPERSONIC FLOW PAST BODY OF REVOLUTION N64-31751 23-11

CALCULATION OF HEAT FLUXES IN FLOW OF SUPERSONIC STREAMS AROUND FLAT AND RING-SHAPED SHOULDER
FTD-TT-64-364/1&2 N64-31798 23-13

AERODYNAMIC CHARACTERISTICS OF WEDGE-SHAPED TWO-DIMENSIONAL AIRFOILS IN SUPERSONIC VISCOUS FLOW
AS-64-8 N64-32218 23-03

TURBULENT FLOW AND HEAT TRANSFER IN INTERACTION OF SUPERSONIC STREAM AND SURFACE PROTUBERANCE
CR-3 N64-32458 23-11

RIEMANN SOLUTION TO PROBLEM OF FLOW AROUND THIN BODIES
FTD-MT-63-288 N64-32599 23-11

FLUTTER OF CYLINDRICAL SHELL MOVING IN SUPERSONIC GAS FLOW - GALERKIN METHOD N64-33032 24-33

STABILITY OF FASTENED PANEL IN SUPERSONIC FLOW - GALERKIN METHOD N64-33033 24-33

AERODYNAMIC DERIVATIVE MEASUREMENT OF OSCILLATING BICONVEX-FLAT AIRFOIL IN SUPERSONIC FLOW
NAL-TR-57T N64-33449 24-03

NOSE CONE SHAPE, AFTERBODY LENGTH, & SUPERSONIC SPEED VARIATION EFFECT ON AERODYNAMIC CHARACTERISTICS OF AXISYMMETRIC BODY
RF-TR-64-13 N64-33646 24-02

SUPERSONIC HEAT TRANSFER
HEAT TRANSFER AND PRESSURE DISTRIBUTION ON FIN PLATE INTERFERENCE MODEL AT MACH 6
NASA-TN-D-2028 N64-25806 17-13

HEAT TRANSFER AND PRESSURE MEASUREMENTS ON FIRE PROJECT REENTRY MODEL IN SUPERSONIC WIND TUNNEL
NASA-TN-D-2000 N64-34017 24-13

SUPERSONIC NOZZLE
ENGINE INTAKE AND NOZZLE STUDIES FOR SUPERSONIC TRANSPORT APPLICATION
RAE-TRANS-1043 N64-13232 04-02

CHEMICAL REACTION OF NITRIC OXIDE AND OZONE IN SUPERSONIC NOZZLE
NASA-CR-53532 N64-18215 10-07

NUMERICAL PROCEDURE FOR SOLVING NAVIER-STOKES EQUATION AND APPLICATION TO ONE-DIMENSIONAL FLOW FIELD IN SUPERSONIC NOZZLE WITH NORMAL SHOCK WAVE
REPT.-63SD891 N64-21567 15-20

DIGITAL COMPUTER METHOD FOR DESIGNING INVISCID WALL CONTOUR OF SUPERSONIC AXISYMMETRIC NOZZLE WITH UNIFORM PARALLEL FLOW AT EXIT
AEDC-TDR-64-110 N64-22570 15-02

NOZZLE CASCADES FOR SUPERSONIC VELOCITY

FTD-TT-63-99/1&2&4 N64-23420 16-02

ELECTRON-ION RECOMBINATION IN ARGON FLOWING THROUGH SUPERSONIC NOZZLE N64-26130 18-24

INTERNAL AIR-FILM COOLING OF MACH 2.4 AXISYMMETRIC SUPERSONIC NOZZLE
NOLTR-64-65 N64-31672 23-13

SUPERSONIC SPEED
FLUTTER OF FLAT RECTANGULAR PANELS BASED ON THREE-DIMENSIONAL SUPERSONIC POTENTIAL FLOW
NASA-RP-44 N64-10131 01-02

TURBULENT BOUNDARY LAYER, PRESSURE DRAG, AND SKIN DRAG OF DELTA WINGS AT ZERO LIFT & SUPERSONIC VELOCITY
ARC-CP-696 N64-10240 01-03

EMPIRICAL PREDICTION METHOD FOR NONLINEAR NORMAL FORCE ON THIN WINGS AT SUPERSONIC SPEEDS
ARC-CP-662 N64-10401 01-03

FLUID MECHANICS RESEARCH - BASE PRESSURE THEORY FOR SUPERSONIC BODIES
ONERA-TP-18 N64-11886 03-02

FLUTTER OF TWO-DIMENSIONAL PANELS AT SUPERSONIC SPEEDS
AFOSR-5327 N64-12711 04-33

SPARK SCHLIEREN PHOTOGRAPHS OF FREE & SUPPORTED CONE AND SPHERE MODEL SUPERSONIC & HYPERSONIC WAKES
NASA-CR-53014 N64-13270 04-02

PRESSURE DISTRIBUTIONS & FLOW PATTERNS ON CONES WITH SHARP EDGES AT MACH 4
ARC-R&M-3340 N64-13359 04-02

LONGITUDINAL CHARACTERISTICS AT SUPERSONIC SPEEDS OF PLANE AND CAMBERED OGEE WINGS
ARC-R&M-3328 N64-13377 04-03

DISLOCATIONS AT SUBSONIC & SUPERSONIC VELOCITIES
N64-13434 05-25

LOW FREQUENCY OSCILLATIONS OF TAPERED WINGS AT SUPERSONIC SPEEDS
NPL-AERO-1063 N64-14131 05-03

LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF BLUNTED CONES AT HYPERSONIC AND SUPERSONIC SPEEDS
NASA-TN-D-2201 N64-15404 07-02

THEORETICAL AND EXPERIMENTAL HEAT TRANSFER TO YAWED SPHERE-CONE MODEL AT SUPERSONIC SPEEDS
N64-15639 07-13

WIDTH MEASUREMENTS OF TURBULENT INNER WAKE BEHIND 3-INCH DIAMETER ALUMINUM SPHERES AT SUPERSONIC SPEED
CARDE-TR-488/64 N64-15732 07-02

TURBULENT WAKE FLOW AT SUPERSONIC SPEED
NASA-CR-55718 N64-15888 07-11

SURFACE PRESSURE VARIATIONS FROM ATTACHED AND SEPARATED BOUNDARY LAYERS AT SUPERSONIC SPEED
AGARD-458 N64-16663 08-02

PANEL FLUTTER OF RING AND LONGERON STIFFENED CIRCULAR CYLINDRICAL SHELL AT HIGH SUPERSONIC SPEEDS
AFOSR-64-0074 N64-17452 09-33

RELATIONSHIP BETWEEN SUBSONIC AND SUPERSONIC SPEEDS OF FLIGHT AND SAFETY IN CIVIL AVIATION
FFA-96 N64-18149 10-10

SURFACE PITOT TUBE AS SKIN FRICTION METERS IN SUPERSONIC TURBULENT BOUNDARY LAYERS
ARC-R&M-3351 N64-18153 10-15

SKIN FRICTION MEASUREMENTS USING SURFACE PITOT TUBES IN FREE FLIGHT AT SUPERSONIC SPEEDS
ARC-CP-711 N64-18327 10-11

FLUTTER ANALYSIS OF CORRUGATION-STIFFENED PANELS AT SUPERSONIC SPEED - MACH NUMBER 3
NASA-TN-D-2293 N64-19725 12-33

WALL PRESSURE FLUCTUATIONS UNDER TURBULENT BOUNDARY LAYERS AT SUBSONIC AND SUPERSONIC SPEEDS
AGARD-454 N64-19937 12-11

AIRCRAFT CONFIGURATIONS FOR SUPERSONIC & HYPERSONIC FLIGHT N64-20292 13-04

AERODYNAMIC CHARACTERISTICS OF AIRCRAFT CONFIGURATIONS WITH HIGHLY SWEPT TWISTED AND CAMBERED ARROW WINGS AT HYPERSONIC SPEEDS
N64-20294 13-04

TURBULENT BOUNDARY LAYER ON AXISYMMETRIC BODIES AT SUPERSONIC SPEEDS
LB-31425 N64-21417 14-02

SUPERSONIC AERODYNAMIC HEATING OF BODIES IN MOTION
FTD-TT-63-816/1&2 N64-21936 15-13

CAUSES, EFFECTS, AND PROTECTION AGAINST AERODYNAMIC HEATING AT SUPERSONIC SPEEDS
FTD-TT-63-976/1&2 N64-21960 15-13

HEAT TRANSFER MEASUREMENTS ON FLAT PLATE AND ATTACHED FINS AT SUPERSONIC SPEEDS
NASA-TN-D-2340 N64-22674 15-13

FREE FLIGHT MEASUREMENTS OF ZERO LIFT DRAG OF SLENDER OGEE WING AT TRANSONIC & SUPERSONIC SPEEDS
ARC-CP-670 N64-24924 17-03

LIFT AND PITCHING MOMENT ON FOUR OGEE WINGS AT SUPERSONIC SPEED
ARC-CP-673 N64-24926 17-03

TWO-DIMENSIONAL BASE FLOW AT SUBSONIC AND TRANSONIC SPEEDS
NPL-AERO-1070 N64-24955 17-11

VELOCITY DISTRIBUTION DUE TO THICKNESS OF SWEPT WINGS WITH SUBSONIC EDGES AT SUPERSONIC SPEEDS
ARC-CP-654 N64-25074 17-02

SUPERSONIC FLOW AROUND BLUNT BODIES IN GAS IN THERMODYNAMIC EQUILIBRIUM
NASA-TR-R-204 N64-25812 17-02

AERODYNAMIC CHARACTERISTICS OF SATURN V LAUNCH VEHICLE AT SUPERSONIC SPEEDS
NASA-TN-D-2352 N64-25912 18-02

LATERAL INTERACTION OF JET AND FREE STREAM AT SUPERSONIC SPEEDS AND USE IN REACTION CONTROL
ADR-01-07-63.2 N64-25919 18-02

DIFFUSION AND COMBUSTION OF HYDROGEN IN AIR AT SUPERSONIC SPEEDS N64-26328 18-11

HYDRAULIC COMPRESSOR APPARATUS FOR FREE LIQUID JET BLOWOUT AT SUPERSONIC VELOCITY
FTD-TT-64-252/1&2&4 N64-27843 19-11

CALIBRATION OF CONE TO MEASURE MACH NUMBER, TOTAL PRESSURE, AND FLOW ANGLES AT SUPERSONIC SPEEDS
ARC-CP-628 N64-28070 20-02

HEAT TRANSFER AND PRESSURE MEASUREMENTS DETERMINED ON DELTA WINGS WITH SHARP AND BLUNT NOSES AT SUPERSONIC SPEEDS
NASA-TN-D-2387 N64-28324 20-03

EFFECT OF AIR INJECTION THROUGH POROUS SURFACE AND SLOTS ON TURBULENT SKIN FRICTION AT MACH 3
NASA-TN-D-2427 N64-28327 20-11

TURBULENT BOUNDARY LAYER WITH FLUID INJECTION AT HIGH SUPERSONIC SPEEDS
ARC-CP-740 N64-28769 20-11

CONICAL AFTERBODY EFFECT ON REARWARD STATIC STABILITY OF BLUNT NOSED ENTRY VEHICLE AT SUPERSONIC SPEED
NASA-CR-58614 N64-28834 20-02

RAIN EROSION EFFECTS ON RADOMES TRAVELING AT SUPERSONIC SPEEDS

NOTS-TP-3232 N64-28909 20-10

STATIC AERODYNAMIC CHARACTERISTICS OF BLUNTED CONES AND ROUNDED CYLINDERS AT SUPERSONIC AND HYPERSONIC SPEEDS
NASA-CR-58666 N64-29212 21-02

LOCAL PRESSURE COEFFICIENT DISTRIBUTIONS ON SATURN IB AND SATURN S-IB TAIL SHROUDS AT SUPERSONIC SPEEDS
TB-AE-64-10 N64-29595 21-31

COMPARISON OF THEORETICAL LAMINAR HEAT TRANSFER RATES TO YAWED SPHERE-CONE MODEL AT SUPERSONIC SPEEDS
NOLTR-63-208 N64-31669 23-13

FLUTTER STUDY OF TWO-BAY FLAT PANELS AT SUPERSONIC SPEED TO DETERMINE INFLUENCE OF STRUCTURAL AND AERODYNAMIC COUPLING
SSD-TDR-64-164 N64-31983 23-33

AERODYNAMIC CHARACTERISTICS OF SLENDER CONICAL AND FLAT PLATE BODIES AT HIGH SUPERSONIC SPEEDS
RAC-2451 N64-32470 23-02

SURFACE PRESSURES ON BLUNT PLATE WING AT SUPERSONIC AND HYPERSONIC SPEEDS
FDL-TDR-/4/-102 N64-32481 23-03

PANEL FLUTTER MOTION IN GAS WITH SUPERSONIC SPEED - GALERKIN METHOD
FTD-MT-63-136 N64-33031 24-33

CALCULATION OF AERODYNAMIC COEFFICIENTS OF ROTATING BODIES AT GREATER SUPERSONIC SPEEDS USING FORMULAS DERIVED FROM NEWTON RESISTANCE LAW
FTD-TT-64-561/1 N64-33942 24-02

SUPERSONIC TRANSPORT

SUPERSONIC AIR TRANSPORT FLIGHT PROFILE SIMULATION FOR AIR TRAFFIC CONTROL DEVELOPMENT AND FLIGHT PLANNING N64-10349 01-04

EVALUATION OF UNITED STATES SUPERSONIC TRANSPORTATION PROGRAM N64-10413 01-04

PILOTED SIMULATOR STUDIES OF LOW-SPEED LONGITUDINAL HANDLING QUALITIES OF SUPERSONIC TRANSPORT AIRCRAFT N64-10909 02-14

SELECTION OF OPTIMUM TYPE & CONFIGURATION OF PROPULSION SYSTEM FOR SUPERSONIC TRANSPORT
SAE-PAPER-586A N64-11434 02-27

SIMULATION SYSTEMS FOR SUPERSONIC TRANSPORT PROGRAM AND MANNED SPACE FLIGHT N64-12879 04-10

SUPERSONIC TRANSPORT PROGRAM - GENERAL PURPOSE AIRBORNE SIMULATOR N64-12880 04-10

EXISTING HIGH PERFORMANCE AIRCRAFT / . AIRBORNE SIMULATORS FOR SUPERSONIC TRANSPORT PROGRAM N64-12881 04-10

ENGINE INTAKE AND NOZZLE STUDIES FOR SUPERSONIC TRANSPORT APPLICATION
RAE-TRANS-1043 N64-13232 04-02

TEMPERATURE EFFECT ON FATIGUE BEHAVIOR OF MATERIAL FOR SUPERSONIC TRANSPORT
LR-17129 N64-14009 05-33

PILOTED SIMULATOR STUDY OF HANDLING QUALITIES OF SUPERSONIC TRANSPORTS IN LANDING MANEUVERS
NASA-TN-D-2251 N64-17993 10-14

CYCLING FATIGUE BEHAVIOR OF STAINLESS STEEL AND TITANIUM ALLOY FOR SUPERSONIC TRANSPORT
NASA-CR-28 N64-18726 11-18

SHEET MATERIALS FOR WING AND FUSELAGE OF SUPERSONIC TRANSPORTS
NASA-RP-183 N64-21279 14-04

TURBOJET & TURBOFAN ENGINES FOR SUPERSONIC TRANSPORTS
AIAA PAPER-64-244 N64-21540 15-27

TAKEOFF PERFORMANCE OF SUPERSONIC TRANSPORT CONFIGURATIONS
NASA-TN-D-2308 N64-23024 16-04

STRUCTURAL MATERIAL FOR SUPERSONIC TRANSPORT
AIAA PAPER-64-354 N64-23353 16-18

THRUST REQUIREMENTS VTOL SUPERSONIC MILITARY AND TRANSPORT JET AIRCRAFT
DFL-233 N64-27227 19-04

MECHANICAL PROPERTIES OF NICKEL-BASE SUPERALLOYS FOR USE IN SUPERSONIC TRANSPORT AIRCRAFT AT HIGH TEMPERATURES
NASA-CR-92 N64-28312 20-18

PILOT EVALUATION OF DYNAMIC STABILITY CHARACTERISTICS OF SUPERSONIC TRANSPORT IN CRUISING FLIGHT USING FIXED-BASE SIMULATOR
NASA-TN-D-2436 N64-28328 20-04

WIND TUNNEL USED TO DETERMINE PERFORMANCE OF SLENDER WINGS SUITABLE FOR SUPERSONIC TRANSPORT AIRCRAFT
ARC-CP-742 N64-28770 20-03

SONIC BOOM THEORY, TEST DATA COMPILATION, AND SHOCK WAVE NOISE PROBLEMS OF SUPERSONIC TRANSPORTS
AD-602173 N64-28984 20-11

SUPERSONIC TRANSPORT OPERATIONAL AND ECONOMIC CHARACTERISTICS
S-8118 N64-29530 21-04

DYNAMIC LATERAL STABILITY AND CONTROL FOR SUPERSONIC TRANSPORT
NASA-TN-D-2483 N64-31000 22-04

COMPUTER SIMULATION STUDY OF TURN PROCEDURE FOR REDUCING AIRSPACE REQUIREMENTS FOR SUPERSONIC TRANSPORTS
NASA-RP-323 N64-31006 22-22

NASA TESTS ON MECHANICAL PROPERTIES OF MATERIALS APPLICABLE FOR SUPERSONIC TRANSPORTS
NASA-TM-X-1013 N64-31220 22-18

LANDING IMPACT AND MANEUVERING LOADS ON SIMULATED SUPERSONIC TRANSPORT CONFIGURATIONS
BNJV-A-Q3 N64-31285 22-10

SONIC BOOM ANALYSIS DURING SUPERSONIC TRANSPORT TESTING
LR-18084 N64-31618 23-11

PERFORMANCE OF JET ENGINE FUELS FOR SUPERSONIC TRANSPORT AIRCRAFT
LD-121 N64-32284 23-26

APPLICATION OF SELF-ADAPTIVE CONTROL TECHNIQUES TO FLEXIBLE SUPERSONIC TRANSPORT
CHL-IH-1696-F-2 N64-32285 23-06

WELDING CHARACTERISTICS OF SKIN MATERIALS FOR SUPERSONIC TRANSPORTS
BNJV-D-Q-1 N64-32286 23-18

SELF-ADAPTIVE CONTROL TECHNIQUES APPLICATION TO FLEXIBLE SUPERSONIC TRANSPORT
CAL-IH-1696-F-3 N64-32323 23-06

EXHAUST NOZZLE NOISE STUDIES FOR PROPULSION SYSTEM OF SUPERSONIC TRANSPORT
QPR-4 N64-32465 23-27

HOT-SALT STRESS-CORROSION CRACKING OF TITANIUM ALLOYS - SUPERSONIC TRANSPORT APPLICATION
NASA-CR-117 N64-32829 24-18

RUNWAY UNEVENNESS EFFECT ON DYNAMIC RESPONSE OF SUPERSONIC TRANSPORT - DIGITAL COMPUTER PROGRAM
NASA-CR-119 N64-32830 24-04

INTRODUCING SUPERSONIC TRANSPORTS INTO AIR TRAFFIC CONTROL SYSTEMS - FLIGHT TESTS
NASA-TN-D-2219 N64-33082 24-22

SUPERSONIC WIND TUNNEL

MACH NUMBER DISTRIBUTION AND FLOW ANGLE VARIATION

IN WORKING SECTION OF S1 SUPERSONIC WIND TUNNEL
HSA-75 N64-11283 02-02

AERODYNAMIC PERFORMANCE OF SUPERSONIC WIND-TUNNEL COMPRESSOR WITH FIRST CYLINDER REMOVED
AEDC-TDR-64-16 N64-14975 06-10

AERODYNAMIC CALIBRATION DATA OF MACH NUMBER, FLOW DISTRIBUTION, AND NOZZLE PRESSURE OF 16-FOOT PROPULSION SUPERSONIC WIND TUNNEL
AEDC-TDR-64-76 N64-18646 11-10

SUPERSONIC WIND TUNNEL TESTING OF PRESSURE FIELD AROUND AIRCRAFT
DTMB-AERO-1063 N64-22922 16-02

DRIVE UNIT OF CONTINUOUS SUPERSONIC WIND TUNNEL
ONERA-TP-122 N64-25556 17-11

SUPERSONIC WIND TUNNEL INVESTIGATION OF TURBULENT BOUNDARY LAYER ON AXISYMMETRIC BODIES
USCEC-65-52 N64-25694 17-11

COMPUTER PROGRAM TO DETERMINE NOZZLE GEOMETRY FOR SUPERSONIC WIND TUNNEL
NOLTR-64-81 N64-26954 18-20

SUPERSONIC WIND TUNNEL TESTING OF ANTENNAS
N64-27333 19-08

SUPERSONIC WIND TUNNEL TESTING OF NIKE-IROQUOIS MODEL - INDUCED VEHICLE ROLLING MOMENTS
NASA-CR-58997 N64-33215 24-02

SUPERSONIC WIND TUNNEL TEST TO DETERMINE EFFECTIVENESS OF BOUNDARY LAYER SUCTION FOR LAMINAR FLOW CONTROL ON SWEPT WING
AEDC-TDR-64-221 N64-33951 24-03

ENERGY EXCHANGE IN HYPERTHERMAL SUPERSONIC WIND TUNNEL
NASA-RP-360 N64-33990 24-10

SUPERSONIC WIND TUNNEL APPARATUS
QUANTITATIVE STRIOSCOPY FOR SUPERSONIC WIND TUNNEL DATA USING COLORED GRIDS AND MULTIPLE ENTRANCE SLIT N64-18210 10-15

SUPPLY
S POWER SUPPLY

SUPPORT
HUMAN REACTION TO TORQUE REQUIRED FOR SUPPORT OF MASS ON ROD WITH EXTENDED ARM AND HAND
TR-20 N64-27098 19-14

FRICTION REDUCTION IN SUPPORTS FOR GYROSCOPES
N64-29151 21-15

HIGH FORWARD SPEED EFFECTS ON TWO-DIMENSIONAL GROUND EFFECT SUPPORT MODEL - AIR CUSHION VEHICLE
N64-30403 22-10

PRECISE LATERAL-ADJUSTMENT INSTRUMENT SUPPORT
N64-33609 24-17

SUPPORT SYSTEM
SA GROUND SUPPORT SYSTEM
SA LIFE SUPPORT SYSTEM
TEST PROGRAMS & SUPPORT SYSTEMS FOR ORBITING GEOPHYSICAL OBSERVATORY
AIAA PAPER-63-065 N64-10077 01-12

LOAD ANALYSIS OF BLADE SUPPORT STRAPS FOR X258 ROCKET CASE
SSE-5-164 N64-12034 03-30

OPERATIONS RESEARCH APPLICATIONS IN SUPPORT PLANNING FOR MANNED SPACE FLIGHT
NASA-CR-55284 N64-14155 05-30

SPACE FLIGHT PROGRAM OF OPERATIONAL FACILITES AND SUPPORT EQUIPMENT FOR RANGER BLOCK III MISSION
NASA-CR-53038 N64-14744 06-32

SYSTEM COMPONENTS FOR HIGH CHAMBER PRESSURE ENGINES
NASA-CR-56308 N64-22463 15-17

EARTH-MOON TRANSIT TRAJECTORY FOR APOLLO AND SUPPORT VEHICLE FLIGHTS
NASA-TM-X-51693 N64-22474 15-29

AUTOMATIC CONTROL OF WATER LEVEL SUPPORTING STRUCTURES IN IRRIGATION CHANNELS
N64-23084 16-09

MECHANICAL SUPPORT SYSTEM FOR INNER LIQUID HYDROGEN TANK OF ARC JET FEED SYSTEM
N64-25025 17-26

MATHEMATICAL MODEL FOR COMPUTER SIMULATION OF REENTRY VEHICLE TRAJECTORIES TO DETERMINE REQUIREMENTS OF GROUND ELECTRONIC SUPPORT SYSTEMS
ESD-TDR-64-135 N64-28580 20-30

SUPPORT SYSTEMS AND EXCITATION TECHNIQUES FOR DYNAMIC MODELS OF SPACE VEHICLE STRUCTURES
N64-29259 21-33

FLIGHT CONTROL, VEHICLE STRUCTURES, DESIGN, SYSTEMS SUPPORT, AND WIND TUNNEL TEST PROGRAM OF X-22A TRI-SERVICE V/STOL AIRCRAFT
REPT.-2127-933006 N64-29718 21-04

MAGNETIC AND ELECTRIC FORCE STUDIES FOR ROTATING SHAFT SUSPENSION - ACTIVE-RADIAL SUPPORT AND MAGNETIC RESONANT SUPPORT SYSTEMS
EMI-3421-107-64U N64-31149 22-10

APOLLO LOGISTICS SUPPORT SYSTEM - TELEMETRY EQUIPMENT AND TECHNIQUES FOR LUNAR MOBILE LABORATORY
NASA-CR-61018 N64-33867 24-08

APOLLO LOGISTICS SUPPORT SYSTEM - MOLAB STUDIES - COMPARISON BETWEEN OPTIMUM ANTENNA GAIN AND TRANSMITTER POWER FOR LOW MASS SYSTEM
NASA-CR-61010 N64-33880 24-08

SUPPRESSOR
CRITERIA FOR ACOUSTICAL PERFORMANCE OF NOISE SUPPRESSORS
AMRL-MEMO-M-16 N64-11753 03-15

TRYPTOPHAN SYNTHETASE MUTANTS OF YEAST - SUPER-SUPPRESSOR ACTION IN RELATION TO ALLELIC MAPPING & COMPLEMENTATION
UCRL-11191 N64-17707 09-16

REUTER-STOKES HIGH TEMPERATURE ION CHAMBER AND FISSION COUNTER
PWAC-424 N64-17720 09-15

NOISE SUPPRESSOR FOR REDUCING CONTINUOUS WAVE AND PULSED RADIO INTERFERENCE
RADC-TDR-64-80 N64-20030 13-08

TECHNIQUES AND DEVICES FOR SUPPRESSING RADIO INTERFERENCE
RADC-TDR-62-631 N64-21088 14-08

NOISE SUPPRESSION IN PULSE WIDTH MODULATION SYSTEM FOR DESIGNING FEEDBACK CONTROL SYSTEM
R-190 N64-23607 16-08

ZEOLITE TRAP IN SPUTTER-ION PUMP AS NOISE SUPPRESSOR IN MULTIPLIER OF MASS ANALYZER
NASA-CR-58538 N64-29700 21-15

JET NOISE GENERATION AND SUPPRESSION RELATING TO MEAN FLOW VELOCITY DISTRIBUTION IN JET WAKE
AD-446344 N64-33593 24-23

SURFACE
SA CONTROL SURFACE
SA CURVED SURFACE
SA FERMI SURFACE
SA INTERFACE
SA LAMBERT SURFACE
SA METAL SURFACE
SA PLANE
SA PLANETARY SURFACE
SA RIEMANN SURFACE
MOLECULAR DISTRIBUTION UNDER FREE MOLECULAR FLOW CONDITIONS WITHIN SURFACES OF SIMPLE GEOMETRIES
NASA-TM-X-51032 N64-10107 01-23

EFFECT OF THERMAL RADIATION & SURFACING ON NUCLEAR ELECTRIC POWER SUPPLY PERFORMANCE
N64-10956 02-06

CALCULATION OF VOLUME AND SURFACE AREA FOR VARIOUS PARTICLES
IDO-14617 N64-11277 02-15

MEASUREMENT OF HEAT RESISTANCE BETWEEN FLAT SURFACES OF URANIUM & ALUMINUM IN CONTACT
RSIC-99 N64-11538 03-18

VENTILATION INCEPTION ON SURFACE-PIERCING DIHEDRAL HYDROFOIL WITH PLANE-FACE WEDGE SECTION
AD-423951 N64-12239 03-11

STRESS ON RECTANGULAR TENSILE BAR WEAKENED BY SURFACE CRACKS
WAL-TR-811.8/5 N64-12379 03-33

BEHAVIOR OF STEEL PRESSURE VESSELS UNDER BIAXIAL STRESS IN PRESENCE OF SURFACE CRACKS
RRL-TM-242 N64-12609 04-33

PRESSURE DISTRIBUTION OF TURBULENT JET FLOW ON FLAT SURFACE
REPT. 63-12 N64-13046 04-02

CORROSION FATIGUE TEST OF SURFACE-TREATED HIGH STRENGTH STEELS
NEL-102 N64-13342 04-18

TERRAIN QUANTIFICATION - SURFACE GEOMETRY MEASUREMENTS
AFCRL-63-793 N64-13623 05-12

METHODS FOR DISPLAY OF EMISSION FROM SURFACES IN CESIUM VAPOR N64-14209 06-06

ALPHA DECAY SCINTILLATION COUNTER FOR URANIUM SURFACE CONTAMINATION MEASUREMENT OF NUCLEAR REACTOR FUEL
HW-78268 N64-15998 07-23

LIFTING SURFACE THEORY FOR WINGS AT HIGH ANGLES OF ATTACK
VRC-9A N64-17121 09-03

SURFACE CRACK TOUGHNESS OF TWO HIGH STRENGTH SHEET STEELS
NRL-5895 N64-17373 09-19

SURFACE DAMAGE AS RESULT OF HIGH SPEED SLIDING CONTACTS - FLUID LUBRICANTS
MTI-63TR41 N64-18068 10-17

CRITICAL ANALYSIS OF CRACK PROPAGATION LAWS
N64-18168 10-33

ADSORPTION OF GASES ON SOLID SURFACES IN HIGH VACUUM
AFCRL-64-113 N64-18187 10-23

GAS MOVEMENT UNDER ACTION OF CONCENTRATED IMPACT ON ITS SURFACE
FTD-MT-63-80/1&2&3&4 N64-18525 11-23

VENTILATION STATE AND CAVITY FORMATION BEHIND SURFACE-PIERCING ROD IN FREE SURFACE WATER TUNNEL AND TOWING TANK
E-110.1 N64-18582 11-11

EFFECT OF SURFACE DEFORMATION IN ROTATING OBLIQUE SCANNING MIRRORS ON IMAGE QUALITY IN FLYING-SPOT SCANNERS
REPT.-2900-469-T N64-20081 13-23

HEAT TRANSFER ON MELTING SURFACE OF BODY IN SUPERSONIC FLOW - EFFECT OF FEEDING MOLTEN METAL THROUGH POROUS WALL
FTD-TT-62-1328/1&2&4 N64-21225 14-13

LIFTING SURFACE THEORY FOR WINGS AT HIGH ANGLES OF ATTACK IN MULTIPLE SLIPSTREAMS
AD-423274 N64-21319 14-03

EVALUATING THERMAL RADIATIVE PROPERTIES OF SURFACES - SPECTROPHOTOMETER WITH INTEGRATING SPHERE REFLECTANCE ATTACHMENT
RAE-TM-SPACE-28 N64-21738 15-13

DISPERSE ATOMIZATION IN NOZZLES OPERATING ON PRINCIPLE OF BILATERAL WASHING OF LIQUID SURFACE WITH GAS
FTD-TT-63-290/1&2&4 N64-22346 15-11

EFFECT OF FLEXIBLE SURFACE RESPONSE ON REYNOLDS STRESSES NEAR FLOW BOUNDARY
REPT.-1138 N64-22536 15-11

EQUILIBRIUM AND KINETIC MORPHOLOGY OF SOLID STRUCTURE SURFACES
AROD-2781-8 N64-22908 16-25

MEASURING CHANGING TEMPERATURES OF NONMETALLIC SURFACES N64-23201 16-13

WETTING OF SOLID SURFACES BY LIQUID METALS
N64-23317 16-13

HIGHLY UNDEREXPANDED FREE JETS IMPINGING ON FLAT SURFACE
NASA-TN-D-2326 N64-23374 16-11

HEAT TRANSFER ON SURFACE OF CYLINDER WITH AXIAL FLOW OF HIGHLY VISCOUS FLUID
FTD-TT-62-1333/1&2 N64-23404 16-11

METAL BONDING ADHESIVES - SURFACE TREATMENT AND QUALITY CONTROL OF BONDS N64-23453 16-18

SURFACE CURRENTS IN THIN CONDUCTING SHEETS FOR CALCULATION OF RADAR REFLECTION AND SCATTERING
N64-24293 17-08

APPLICATION OF SURFACE FIELD STRENGTH MEASUREMENTS TO RADAR CROSS SECTION PREDICTION - RADAR REFLECTION PROPERTIES N64-24295 17-08

INTERFEROMETER FOR CONTROLLING ASPHERIC SURFACES OF ROTATION N64-24551 17-15

DISTORTIONS AND STRESSES OF PARABOLOIDAL SURFACE STRUCTURES
ESD-TDR-64-55 N64-26530 18-33

COMPUTER METHOD FOR REPRESENTATION OF THREE DIMENSIONAL SURFACE
SC-RR-64-546 N64-26539 18-20

SURFACE PREPARATION AND ELEVATED TEMPERATURE STORAGE EFFECTS ON ADHESIVE BONDS TO ALUMINUM
PA-TM-1255 N64-26755 18-19

CONTACT HEAT TRANSFER BETWEEN PLANE METAL SURFACES
TIL/T-5407 N64-27040 19-13

OPTICAL METHOD FOR DETERMINING ACTUAL CONTACT AREAS ON FRICTION PLANE
RSIC-192 N64-27489 19-19

ERRORS IN USE OF AIRBORNE INFRARED RADIATION THERMOMETER FOR OCEAN SURFACE TEMPERATURE MEASUREMENT
AD-601473 N64-27622 19-19

RADIOLOGICAL DECONTAMINATION OF SPECIFIC SURFACES UNDER COLD WEATHER AND THAWING CONDITIONS
NDL-TR-58 N64-27931 20-21

BERYLLIUM - SURFACE TREATMENT AND COATINGS
BBC-TR-329 N64-28000 20-18

EFFECT OF SURFACE STATES AND PHOTOVOLTAIC EFFECT ON OXIDE-SEMICONDUCTOR INTERFACE
N64-29165 21-06

SEMICONDUCTOR SURFACE CONTROL AND STABILIZATION
AFCRL-64-581 N64-30123 21-25

EFFECTS OF PHYSICAL AND GEOMETRIC PARAMETERS AND HUMAN VISUAL LIMITATIONS ON VISIBILITY DURING LOW ALTITUDE HIGH SPEED FLIGHT N64-31511 23-14

WETTING BEHAVIOR DIFFERENCES OF INDIVIDUAL LIQUIDS REGARDING VARIOUS SOLID SURFACES
NRL-5985 N64-31925 23-07

EXPERIMENTAL INVESTIGATION OF SPATIAL DISTRIBUTION OF RADIATION DOSE IN AIR-OVER-GROUND GEOMETRY
CEX-62.14 N64-32082 23-23

PROFILE AND HEAT BALANCE AT BOTTOM SURFACE OF ICE SHEET FRINGED BY MOUNTAIN RANGE
CRREL-RES. REPT.-134 N64-32520 23-12

MINIMAL SURFACES AND TOPOLOGICAL STRUCTURES
AROD-1323-34 N64-32970 24-20

DETERMINING TRANSIENT HEAT FLUX TO PLANE OR CYLINDRICAL SURFACE OF ISOTROPIC MATERIAL FROM TRANSIENT TEMPERATURE MEASUREMENTS
NASA-CR-59208 N64-32994 24-13

KINETICS OF REDUCTION OF SURFACE OXIDES FORMED ON GOLD ELECTRODES
TM-6 N64-33756 24-06

SURFACE CHEMISTRY
CATALYTIC RECOMBINATION OF ATOMS ON SURFACE OF BODY IN GAS FLOW
SSD-TDR-63-345 N64-14958 06-24

SURFACE CHEMISTRY OF GLASS FIBER REINFORCED PLASTICS
NRL-6083 N64-31426 23-19

FIRE ENGINEERING RESEARCH IN PHYSICAL CHEMISTRY OF FOAMS, QUENCHING ACTION OF CATIONS, AND SURFACE CHEMISTRY OF PERFLUOROCARBONS
WSS/CI PAPER-64-2 N64-32512 23-13

SURFACE CHEMISTRY AND CORROSION WITH GASEOUS, LIQUID, AND SOLID PHASES - RADIOACTIVE DATING
N64-33892 24-07

SURFACE FINISH
METALLOGRAPHIC EVALUATION OF TUNGSTEN SURFACE FINISH AND CONDITION PRODUCED BY ELOX AND ANOCUT MACHINING TECHNIQUES
A477 N64-17135 09-17

ADHESION OF SCOTCHCAL TO UNPAINTED, PRIMED, AND LACQUERED ALUMINUM ALLOY PANELS
T5R-1 N64-17142 09-17

HEAT TRANSFER - ENTROPY OF ALKALI METALS AND HEAT FLOW DEPENDENCE ON SURFACE FINISH
FTD-TT-63-452/1&2&4 N64-17189 09-13

DEPENDENCE OF CRITICAL HEAT FLOW ON MACHINING OF HEATING SURFACE WITH BULK BOILING
N64-17191 09-13

TITANIUM SURFACE STRENGTHENING BY NITRATION, OXIDATION, AND METAL PLATING - TITANIUM PLATING OF STEEL
JPRS-23913 N64-17736 09-18

MECHANISMS FOR BURNISHING OF AERODYNAMIC SURFACES
JPRS-24052 N64-17834 09-17

HIGH TEMPERATURE NONREFLECTIVE EROSION RESISTANT FINISH FOR ALUMINUM ALLOYS USING SOLUBLE INORGANIC COMPOUNDS & ANODIZING PROCESS
AD-432321 N64-18770 11-19

GALLING RESISTANCE OF SKEWED AXIS WING-FOLD FITTINGS & THRUST SURFACES - LUBRICATION & SURFACE FINISH EFFECTS
ADR-05-06-64.1 N64-27191 19-17

SURFACE FINISH OF SPHERES AND PRODUCTION OF SPHERES AND LIMITERS OF YTTRIUM-IRON GARNET /YIG/ CRYSTAL
SJ222-0045-3 N64-28502 20-09

HARD ANODIZED ALUMINUM LAPS FOR PREPARATION OF HIGHLY POLISHED SURFACES N64-33610 24-17

SURFACE INTERACTION
METAL-POLYMERIC FILMS ON FRICTION SURFACE
FTD-TT-63-564/1&2 N64-21932 15-17

CONTROL SURFACE INTERACTION EFFECTS ON DELTA WING WINDWARD PRESSURES AT HYPERSONIC SPEEDS AND HIGH ANGLES OF ATTACK
NASA-TN-D-2332 N64-23028 16-03

INTERACTION BETWEEN GASES & SOLIDS AT ELECTRODE SURFACES
GA-4719 N64-30550 22-07

FACTORS AFFECTING FRICTION COEFFICIENT BETWEEN TIRES AND PAVEMENT SURFACES, AND PROBLEM OF SKID LANDINGS
R-303 N64-30675 22-04

WATER DROP COALESCENCE - GAS-LIQUID INTERACTION & SURFACE INTERACTION
REPT.-0817-01/01/SP N64-33762 24-11

SURFACE LAYER
EFFECT OF SURFACE LAYER OF STAR UPON BLACK BODY RADIATION FROM INTERIOR
AFCRL-63-419 N64-12285 03-05

TURBULENT DIFFUSION IN SURFACE LAYER OF EARTH ATMOSPHERE
JPRS-24490 N64-20201 13-21

TURBULENT DIFFUSION FROM POINT SOURCES IN SURFACE LAYER OF ATMOSPHERE N64-20202 13-21

DISPERSION OF PASSIVE PARTICLES FROM POINT SOURCE IN SURFACE LAYER OF ATMOSPHERE N64-20211 13-21

UNBALANCED AUTOMATIC TEMPERATURE GRADIENT METER FOR MEASUREMENTS IN ATMOSPHERE SURFACE LAYER
N64-20217 13-15

FLAME STABILIZATION IN BOUNDARY SURFACE LAYER
FTD-TT-62-1021/1&2 N64-22638 15-26

MEASUREMENT OF ELECTROSTATIC FIELD INTENSITY AT ROCKET SURFACE IN ATMOSPHERIC FLIGHT
NASA-TT-F-8527 N64-23113 16-12

SURFACE LAYER STRUCTURE CHANGES IN STEELS & OTHER ALLOYS AFTER ELECTRIC DISCHARGE CUTTING
N64-23504 16-18

X-RAY INVESTIGATION OF SURFACE LAYERS OF METAL DURING ROLLING FRICTION N64-23837 16-33

X-RAY ANALYSIS OF WEAR OF METALS WITH PREHARDENED SURFACE N64-23840 16-33

X-RAY ANALYSIS OF DISTORTIONS OF CRYSTALLINE STRUCTURES IN SURFACE LAYERS OF METAL SUBJECTED TO POWER CUTTING N64-23842 16-33

SURFACE PRESSURE
SURFACE PRESSURE MEASUREMENT ON SCOUT LAUNCH VEHICLE
NASA-RP-87 N64-11256 02-32

MODEL ATMOSPHERES FOR THERMODYNAMIC PROPERTIES AND SURFACE PRESSURE, TEMPERATURE, AND DENSITY STUDIES OF PLANET MARS
SM-44552 N64-11942 03-29

SHOCK-TUNNEL MEASUREMENTS OF UNDERSURFACE PRESSURE AND SHOCK ANGLE ON NONWEILER WING COMPARED WITH TWO-DIMENSIONAL FLOW ABOUT WEDGE
ARC-CP-684 N64-13391 04-03

SPACE-TIME CORRELATION OF SURFACE PRESSURE FIELD OF TURBULENT BOUNDARY LAYERS IN NARROW FREQUENCY BANDS
AASU-200 N64-14320 06-11

SURFACE PRESSURE AND HEAT TRANSFER DISTRIBUTION ON BLUNT DELTA WINGS OF ELLIPTIC CROSS SECTION AT HYPERSONIC SPEED
ARL-63-231 N64-16061 07-03

SURFACE PRESSURE VARIATIONS FROM ATTACHED AND SEPARATED BOUNDARY LAYERS AT SUPERSONIC SPEED
AGARD-458 N64-16663 08-02

INDUCED PRESSURES AND SHOCK SHAPES ON BLUNT CONES IN HYPERSONIC FLOW - EXTENSION OF BLAST-WAVE PARAMETERS
NASA-TN-D-2182 N64-17158 09-02

PRESSURE PROBES, DRAG MEASUREMENT DEVICES, AND DUST COLLECTORS TO MEASURE DYNAMIC AND SURFACE PRESSURE ON CYLINDRICAL BODIES
DASA-1433 N64-18846 11-15

SURFACE PRESSURE MEASUREMENTS FOR SEPARATION OF SUPERSONIC TURBULENT BOUNDARY LAYER FLOW
SM-43062 N64-22007 15-11

AIR DENSITY CHANGE AT SEA LEVEL COMPUTED FROM ISOBARIC LEVELS OF ATMOSPHERE N64-27940 20-21

PRESSURE DISTRIBUTION AROUND CYLINDER SIMULATING HIGH SPEED VEHICLE WITHIN TUBE
TR-AE-6402 N64-30404 22-02

BONDING FLUORINATED POLYMERS TO UNIMPROVED SURFACE USING PRESSURE SENSITIVE BONDING MATERIALS
NASA-TT-F-9070 N64-31334 22-07

TROPOPAUSE PRESSURES AND HOURLY FLUCTUATIONS THROUGH RAWINSONDE OBSERVATIONS
AFCRL-64-660 N64-31812 23-21

SURFACE PRESSURES ON BLUNT PLATE WING AT SUPERSONIC AND HYPERSONIC SPEEDS
FDL-TDR-/4/-102 N64-32481 23-03

SURFACE PRESSURE AND TURBULENT AIRFLOW IN TRANSVERSE RECTANGULAR NOTCHES
NASA-TN-D-2501 N64-33602 24-11

SURFACE PROPERTY
SA HARDNESS
MARINER II OBSERVATION OF VENUS SURFACE PROPERTIES BY RADIATION MEASUREMENTS N64-10343 01-32

SURFACE PROPERTIES OF IRON-CARBON ALLOYS
NASA-TT-F-149 N64-11562 03-18

SURFACE IMPEDANCE OF THIN PLASMA SHEETS
TDR-269/4280-10/-1 N64-12580 04-24

SURFACE PROTECTION FOR SILICON SEMICONDUCTOR DEVICES
AFCRL-63-536 N64-13640 05-17

SLOW & FAST SURFACE STATES IN SEMICONDUCTORS OF GERMANIUM AND SILICON
RADC-TDR-63-464 N64-13784 05-25

METHODS FOR REDUCING SURFACE FRICTION OF ELASTOMERIC VULCANIZATES, AND FRICTIONAL DATA FOR POLYTETRAFLUOROETHYLENE COATINGS
NRL-5911 N64-14678 06-19

DENSITY, PARTICLE SIZE, AND SURFACE AREA OF CERIA POWDERS DERIVED FROM SALTS
BM-RI-6375 N64-15991 07-19

SURFACE RADIATION FROM REENTRY VEHICLES
PA-38 N64-17436 09-30

HEAT TRANSFER IN SPACECRAFT RADIATORS, AND SURFACE RADIATION PROPERTIES
NASA-CR-53289 N64-17600 09-13

SURFACE CONTROL AND SURFACE PASSIVATION STUDIES FOR IMPROVING PERFORMANCE OF SEMICONDUCTOR DEVICES
AFCRL-64-188 N64-19666 12-17

SURFACE FINISH, APPLIED TORQUE, AND SURFACE FLATNESS OF TRANSDUCER AND MOUNTING BASE EFFECT ON VIBRATION TRANSDUCER SENSITIVITY
N64-20237 13-15

CIRCULAR FILLET EFFECT ON RADIATIVE HEAT TRANSFER BETWEEN PLANAR SURFACES OF ZERO CONDUCTIVITY INTERSECTING AT SHARP ANGLE
NASA-TR-R-157 N64-21255 14-13

SURFACE FLEXIBILITY EFFECT ON STABILITY OF LAMINAR FLOW
ARC-CP-602 N64-21699 15-11

DELETERIOUS SURFACE PHENOMENA ON SILICON TRANSISTORS
RADC-TDR-64-111 N64-22278 15-09

FREE LIQUID SURFACE DYNAMICS IN CYLINDRICAL TANKS UNDER STRONG CAPILLARY AND WEAK GRAVITY CONDITIONS
LG-2 N64-23893 16-23

EXTREMELY HIGH VACUUM TECHNOLOGY AND STUDY OF CLEAN SURFACES
NASA-CR-84 N64-24831 17-23

RUNWAY SURFACE WAVINESS
MP-218 N64-25538 17-10

DISTORTIONS AND STRESSES OF PARABOLOIDAL SURFACE STRUCTURES
ESD-TDR-64-55 N64-26530 18-33

SURFACE EFFECTS OF RADIATION ON TRANSISTORS
R64MCD500 N64-26803 18-09

SURFACE STATES OF GALLIUM ARSENIDE SEMICONDUCTORS
RADC-TDR-64-168 N64-26919 18-25

EFFECT OF NUCLEATION OF SLIP SURFACE ON FLOW AND FRACTURE OF BERYLLIUM
NASA-CR-56314 N64-27393 19-18

EFFECTS OF SURFACE PERTURBATIONS ON PRESSURE DISTRIBUTIONS ABOUT BLUNT TWO-DIMENSIONAL BODIES AT HYPERSONIC SPEEDS
FDL-TDR-64-17 N64-28549 20-02

INVESTIGATIONS OF MARS - ATMOSPHERE, SURFACE PROPERTY, AND POLAR CAPS
T-R-424 N64-29375 21-05

PHOTOMETRY OF SURFACE PROPERTIES OF ECHO I
NASA-CR-58290 N64-29572 21-08

OXIDATION AND SURFACE ACTIVITY OF PLATINUM MONOCRYSTALLINE SPHERICAL ELECTRODES
FTD-TT-64-156/1&2 N64-30132 21-25

CRACK INITIATION IN METALLIC MATERIALS - ANALYSIS OF HOLE AND NOTCH STRESS FIELDS, AND EXPERIMENTAL STUDIES OF SURFACE DEFECT EFFECTS
MET-E-1040-6308Q3 N64-31164 22-18

ADSORPTIVITY CHANGE OF SEMICONDUCTOR SURFACE INFLUENCED BY ILLUMINATION
FTD-MT-64-205 N64-32611 23-23

CONTACT HEAT EXCHANGE BETWEEN FLAT METAL PLATES AS FUNCTION OF PRESSURE, SURFACE PROPERTIES, AND HEAT CONDUCTIVITY COEFFICIENT
RSIC-272 N64-33421 24-13

SURFACE REACTION
SURFACE TRANSFORMATIONS IN IMPACTED STEEL RODS
ERR-FW-213 N64-16631 08-18

SURFACE ROUGHNESS
BOUNDARY-LAYER VELOCITY PROFILES AND SKIN FRICTION OF OGIVE CYLINDER AT SUPERSONIC SPEED - SURFACE ROUGHNESS EFFECT
NASA-TN-D-2048 N64-11555 03-11

EVALUATION OF TEMPERATURE, HUMIDITY, AND SURFACE ROUGHNESS ON ALUMINUM-EPOXY-ALUMINUM JOINTS
N64-11805 03-13

ALOUETTE SATELLITE DATA OF EARTH RADAR - THEORY OF ELECTROMAGNETIC SCATTER FROM ROUGH SURFACES AND SURFACE HEIGHTS
NASA-CR-52985 N64-12029 03-32

SURFACE ROUGHNESS AND PURITY EFFECTS
FTD-MT-63-63/1&2 N64-18758 11-25

EFFECTS OF CONTROLLED SURFACE ROUGHNESS ON BOUNDARY LAYER TRANSITION AND HEAT TRANSFER AT HYPERSONIC SPEEDS
NASA-TN-D-2054 N64-18953 11-11

RADAR SCATTER FROM ROUGH SURFACES WITH APPLICATION TO LUNAR RADAR BACKSCATTER N64-19499 12-09

EFFECTS OF CONTROLLED SURFACE ROUGHNESS AND FREE STREAM TURBULENCE ON BOUNDARY LAYER TRANSITION
SID-64-546 N64-21250 14-11

MEASUREMENT OF SURFACE ROUGHNESS OF WORKED SURFACES
FTD-TT-62-1757/1&2 N64-22396 15-15

MEASUREMENTS OF RUNWAY SURFACE ROUGHNESS
AGARDOGRAPH-80 N64-23375 16-15

EXPRESSIONS FOR COEFFICIENT OF SPATIAL AUTOCORRELATION OF AMPLITUDE AND PHASE FROM STATISTICALLY ROUGH SURFACE N64-23791 16-08

SURFACE ROUGHNESS AND TOLERANCES IN MODELS FOR RADAR SCATTERING MEASUREMENTS N64-24320 17-08

EFFECTS OF SURFACE ROUGHNESS OF SOLID ELECTRODES ON ELECTROCHEMICAL MEASUREMENTS
TR-54 N64-26619 18-07

REFLECTION OF SOUND WAVES FROM STATISTICALLY UNEVEN SURFACE IN PRESENCE OF SHADOWS
N64-27159 19-08

TEMPERATURE SPECTRA MEASUREMENTS OF AIRFLOW OVER ARTIFICIALLY CONTROLLED AND UNMODIFIED SURFACE ROUGHNESS N64-29534 21-21

EVALUATION OF ROUGH TERRAIN SURFACES
TRECOM-TR-64-19 N64-30166 21-12

SURFACE ROUGHNESS EFFECT ON HEMISPHERICAL AND SPECULAR REFLECTANCE OF METALLIC SURFACES IRRADIATED BY BLACK BODY IRRADIATION
ASME PAPER-63-HT-6 N64-30787 22-18

THEORETICAL ANALYSIS OF FORCED VIBRATION RESPONSE OF ROCKET SLED TO RANDOM EXCITATION DUE TO RAIL ROUGHNESS
NAVWEPS-8546 N64-32538 23-10

SURFACE TEMPERATURE
MODEL ATMOSPHERES FOR THERMODYNAMIC PROPERTIES AND SURFACE PRESSURE, TEMPERATURE, AND DENSITY STUDIES OF PLANET MARS
SM-44552 N64-11942 03-29

AVERAGE SURFACE TEMPERATURE OF PLANET MARS COMPUTED FROM RADIATION EQUILIBRIUM
N64-14929 06-29

SURFACE TEMPERATURE MEASUREMENTS OF SELF-LUMINOUS BODIES AND OTHER BRIGHTNESS PARAMETERS USING COLOR DENSITOMETRY N64-15464 07-23

NONLINEAR ANALOG NETWORK FOR CONVERTING SURFACE TEMPERATURE TO HEAT FLUX - USE WITH THIN FILM RESISTANCE THERMOMETERS
CAL-130 N64-18176 10-15

ESTIMATION OF SURFACE TEMPERATURES AT STAGNATION POINT OF SPHERICAL SHELLS
CARDE-TN-1607/64 N64-18637 11-13

TEMPERATURES ON SURFACES AT SLIDING CONTACT - FRICTION HEATING
RSIC-142 N64-18645 11-17

METHOD FOR CALCULATING SURFACE TEMPERATURE OF WALLS UNDER AERODYNAMIC HEATING WITH GIVEN HEAT TRANSFER COEFFICIENT AND WALL TEMPERATURE
WRE-TN-HSA-95 N64-19072 11-13

METEOROLOGY - INFRARED RADIOMETER FOR SURFACE AND CLOUD TEMPERATURE MEASUREMENTS
USAELRDL-TR-2373 N64-19406 12-15

METHODS OF MEASURING SURFACE TEMPERATURE BY PHOTOLUMINESCENCE N64-20424 13-33

NUCLEAR BOILING OF WATER AT ATMOSPHERIC PRESSURE AND MEASUREMENT OF SURFACE TEMPERATURE VARIATIONS
EUR-1622.F N64-20881 14-13

STOCHASTIC MODEL FOR DETERMINING INTERFACE TEMPERATURES OF SOLIDS IN SLIDING CONTACT
RTD-TDR-63-4184 N64-21179 14-13

PROBE SYSTEM FOR MEASUREMENT OF INSTANTANEOUS TEMPERATURES OF RADIATION HEATED SURFACES
RTD-TDR-63-4015 N64-21489 14-06

SURFACE TEMPERATURE AT NOSE OF PROJECTILE
CARDE-TR-481/64 N64-26097 18-13

ERRORS IN USE OF AIRBORNE INFRARED RADIATION THERMOMETER FOR OCEAN SURFACE TEMPERATURE MEASUREMENT
AD-601473 N64-27622 19-15

ESTIMATES OF AVERAGE MARS SURFACE TEMPERATURE
GCA-TR-62-3-N N64-27815 19-05

COMPUTER PROGRAM TO PREDICT SURFACE TEMPERATURES OF ORBITING SATELLITE
NASA-CR-56277 N64-27901 20-29

ELASTOHYDRODYNAMICS - PRESSURE AND SURFACE TEMPERATURE DISTRIBUTION AND DEFORMATION PROFILE IN CONCENTRATED LUBRICATED ROLLING-SLIDING CONTACT
MTI-64TR37 N64-29349 21-17

AIRBORNE RADIOMETRY TO MEASURE SURFACE TEMPERATURE OF TROPICAL ISLAND
NASA-CR-58529 N64-29547 21-12

CALCULATING INSIDE WALL SURFACE TRANSIENT TEMPERATURES FOR SOLID PROPELLANT ROCKET NOZZLES
ABL/Z-73 N64-29896 21-13

SINGLE-PULSE INSTANTANEOUS SURFACE TEMPERATURE OF METALS SUBJECTED TO HIGH-INTENSITY PULSED ELECTRON BEAM BOMBARDMENT
TR-351 N64-30206 21-13

SURFACE TEMPERATURE MEASUREMENT BY RADIATION
N64-32340 23-12

SURFACE TENSION
SA LIQUID-LIQUID INTERFACE
SURFACE TENSION DETERMINATIONS OF LIQUID METALS, SOLIDS, AND LIQUIDS
JPRS-17447 N64-10677 02-23

SOLID AND LIQUID STATE DIFFERENCES - THERMAL ENERGY, BOUNDARY LAYERS, VISCOSITY, SURFACE TENSION, SINGLE-BOND ENERGY N64-10678 02-23

SURFACE TENSION MEASUREMENT OF LIQUID METALS BY SESSILE-DROP METHOD IN PROTECTIVE ATMOSPHERES
N64-10679 02-23

LAWS OF DEFORMATION APPLIED TO SINTERING AS DEFORMING DUE TO SURFACE TENSION
N64-10687 02-18

SURFACE TENSION, BONDING, & OTHER CHARACTERISTICS OF SOLIDS & LIQUIDS
FTD-TT-62-1831/1&2&4 N64-12360 03-23

AERODYNAMIC SPATTERING IN ABLATION OF LIQUID FILMS AS RELATED TO SURFACE TENSION
RR-TR-63-24 N64-16471 08-13

INTERACTION BETWEEN LOWER ATMOSPHERE AND SEA SURFACE - HEAT FLUX & SURFACE STRESS
REPT.-63-46 N64-16502 08-21

GAS-BUBBLE PRESSURE METHOD FOR DETERMINING SURFACE TEMPERATURE OF METALS OF IRON FAMILY
N64-23318 16-18

SURFACE TENSION OF PURE LIQUIDS FROM WATER BELL EXPERIMENTS
REPT.-3 N64-29916 21-11

SURFACE-TO-AIR MISSILE
GUIDED MISSILES - AIR TO AIR, AIR TO SURFACE, SURFACE TO AIR, AND SURFACE TO SURFACE
N64-14936 06-30

DIGITAL SIMULATION OF SURFACE-TO-AIR GUIDED MISSILE
SAD-126 N64-20270 13-20

FORTRAN COMPUTER PROGRAM FOR CALCULATION OF SURFACE-TO-AIR MISSILE TRAJECTORIES
TN-R-104 N64-30584 22-20

SURFACE-TO-SURFACE MISSILE
GUIDED MISSILES - AIR TO AIR, AIR TO SURFACE,

SURFACE TO AIR, AND SURFACE TO SURFACE
N64-14936 06-30

SURFACE VEHICLE
ECONOMIC AND LOGISTIC IMPACT OF HYDROCARBON-AIR OXIDATION FUEL CELLS ON TRACTION VEHICLE OPERATION
N64-17404 09-06

FUEL CELL APPLICABILITY TO GROUND VEHICLES
N64-17406 09-06

SURFACE WAVE
MULTILOBE DIRECTIVITY PATTERN IN SURFACE-WAVE ANTENNA BY MODULATION OF IMPEDANCE PLANE
N64-12744 04-08

DEVICE FOR MEASURING LAG COEFFICIENT OF SURFACE WAVE FROM MOVING LOAD
N64-13566 05-23

EQUATIONS OF EQUAL PLANET SYSTEM VIEWED FROM SURFACE WAVE
N64-13575 05-16

SURFACE WAVE DIFFRACTION BY SYMMETRIC CRUSTAL DISCONTINUITIES - SEISMOLOGY
AFCRL-63-719 N64-13836 05-12

SURFACE WAVES ON METAL ROD SHEATHED WITH ISOTROPIC CONCENTRIC PLASMA - PRINCIPAL AND HIGHER MODES
PIBMRI-1197-63 N64-14691 06-24

ISOLATION OF RAYLEIGH AND LOVE SURFACE WAVES ON SEISMOGRAPHS FOR DETERMINATION OF AZIMUTHS TO EPICENTERS
JPRS-23115 N64-14876 06-12

WRINKLING AS FUNCTION OF SURFACE WAVINESS IN ALUMINUM HONEYCOMB CORE PANELS
ERR-FW-196 N64-16628 08-34

USING SURFACE WAVES FOR ULTRASONIC NONDESTRUCTIVE TESTING OF METALS
HW-79928 N64-18249 10-23

SURFACE-WAVE TRANSMISSION LINES USING THIN DIELECTRIC SHEET
T-85-J N64-18512 10-08

MATHEMATICAL ANALYSIS OF SURFACE WAVE ANTENNAS
SCI. REPT.-798312 N64-20147 13-30

LAUNCHING SURFACE WAVES - THEORY AND APPLICATION OF ANTENNAS
AFCRL-63-63 N64-22302 15-08

SURFACE WAVE PROPAGATION ALONG FERRITE ROD
AFCRL-63-569 N64-23143 16-23

PHENOMENOLOGICAL THEORY OF MULTI-MODE SURFACE WAVE EXCITATION PROPAGATION, AND DIFFRACTION - PLANE STRUCTURES
EM-198 N64-26881 18-08

USE OF BODY AND SURFACE WAVES TO DETERMINE ENERGY IN SEISMIC WAVES
N64-30381 22-12

SURFACE WAVE PROPAGATION ALONG INTERFACE BETWEEN FLUID AND ELASTIC SOLID - TRANSMISSION AND RADIATION OF SURFACE WAVE ENERGY BY WEDGE-SHAPED DISCONTINUITY
TR-5 N64-30738 22-23

RADIO ELECTRONICS - TRAVELING WAVE TUBES, RADIO WAVES, EXCITATION OF SURFACE ELECTROMAGNETIC WAVES, FERRITE PHASE SHIFTERS FOR CENTIMETER BAND, AND PARAMETRIC AMPLIFIERS
JPRS-26492 N64-31351 23-09

EXCITATION OF SURFACE ELECTROMAGNETIC WAVES BY DISCRETELY DISTRIBUTED NONPROJECTING SOURCE
N64-31357 23-09

CONTINUOUS RECORDING INSTRUMENT FOR WAVE PATTERNS ON WIND-AGITATED WATER SURFACE
AECL-2051 N64-32660 23-15

DIFFRACTION OF OBLIQUE ELECTROMAGNETIC SURFACE WAVE BY RIGHT ANGLE BEND
EM-190 N64-33307 24-08

SURFACTANT
EFFECT OF SURFACTANTS IN ELECTROLYTE ON SILVER OXIDE-ZINC BATTERY CYCLE LIFE
QTPR-2 N64-27712 19-09

DETERGENCY STUDY - LIGHT SCATTERING MEASUREMENTS OF MICELLAR CHARACTERISTICS OF ANIONIC AND NONIONIC SURFACTANT MIXTURES
CCL-163 N64-32446 23-07

SURGERY
SOVIET MEDICINE - VASCULAR SURGERY, METABOLISM, HYPERTENSION, AND THERAPEUTIC UNDERWEAR
JPRS-17498 N64-10683 02-16

EFFECT OF IONIZING RADIATION ON WOUNDS - SURGERY TEXTBOOK
JPRS-19278 N64-11066 02-16

HYDROXYCORTICOSTEROID LEVEL OF PATIENTS SCHEDULED FOR DENTAL SURGERY
SAM-TDR-63-11 N64-12366 03-16

CLINICAL RADIOLOGY RELATION TO SURGERY AND STUDIES OF ORGANS AND TISSUES
JPRS-23317 N64-15336 07-14

SURGICAL TREATMENT OF BURN INJURIES
JPRS-23933 N64-18398 10-16

SURVEILLANCE
SA SPACE SURVEILLANCE SYSTEM
CF RECONNAISSANCE
SURVEILLANCE TECHNIQUES, RADIO PROPAGATION, AND PLASMA PHYSICS
ESD-TDR-64-574 N64-17629 09-01

SOLID STATE DEVICES FOR SURVEILLANCE RADAR RECEIVERS AND TRANSPONDERS
WP-2785-7 N64-23907 16-09

INSTRUMENTATION, OPERATION, AND PERFORMANCE OF ACTIVE SEISMIC SYSTEMS FOR COMMUNICATION OR SURVEILLANCE
USAELRDL-TR-2446 N64-26585 18-15

SIMULTANEOUS RADAR OBSERVATION OF MULTIPLE TARGETS WITHIN BROAD SURVEILLANCE REGION
AFCRL-64-696 N64-30976 22-08

COMPUTER PROGRAM TO CALCULATE ACQUISITION COORDINATES OF EARTH SATELLITES FOR TRACKING AND FIXED BEAM SURVEILLANCE SENSORS
U-1854 N64-32389 23-20

MICHIGAN PROJECT COMBAT SURVEILLANCE AND TARGET ACQUISITION RADAR - GEOMETRIC DISTORTIONS IN FIELD OF VIEW OF ROTATING-OBLIQUE MIRROR SCANNING SYSTEM
REPT.-6400-10-T N64-33956 24-15

SURVEYING
SA GEODETIC SURVEYING
WORLD MAGNETIC SURVEY DATA
NASA-TM-X-51255 N64-11797 03-12

WORLD MAGNETIC SURVEY BY SATELLITE - POLAR ORBITING GEOPHYSICAL OBSERVATORY
NASA-TN-D-2109 N64-14984 06-12

MAGNETIC SURVEYING OF EARTH CRUST
AID-P-64-38 N64-23018 16-12

HIGH PRECISION DEVICE FOR LENGTH MEASUREMENTS IN LARGE ACCELERATOR SURVEYING
CERN-64-39 N64-31273 22-10

SURVEY DATA OF RANGE INSTRUMENTATION STATIONS
AD-442881 N64-32291 23-12

PROTOTYPE ALL-MECHANICAL PORTABLE FIELD CALIBRATOR FOR RADIOLOGICAL SURVEY INSTRUMENTS
AD-446447 N64-32578 23-15

SURVEYOR PROJECT
SURFACE GEOPHYSICAL INSTRUMENT FOR SURVEYOR SPACECRAFT PROJECT
NASA-CR-52133 N64-10097 01-15

TOUCHDOWN DYNAMICS STUDY FOR LUNAR LANDING PHASE

OF SURVEYOR PROJECT
NASA-CR-52080 N64-13014 04-29

RANGER & SURVEYOR PROJECTS, DEEP SPACE INSTRUMENTATION FACILITY, AND MARINER C & II
NASA-CR-53058 N64-15793 07-29

INTERPRETATION OF RESULTS FROM PROPOSED SURVEYOR SATELLITE ALPHA-SCATTERING EXPERIMENT - LUNAR SURFACE COMPOSITION DETERMINATION
NASA-CR-53876 N64-19790 12-05

MIDCOURSE GUIDANCE EQUATIONS FOR SURVEYOR PROJECT LUNAR SOFT LANDING SPACECRAFT
AIAA PAPER-64-654 N64-27755 19-22

SYSTEMS DESIGN AND MISSION PLANNING FOR SURVEYOR SOFT LANDING PROJECT
NASA-CR-58247 N64-28969 20-32

SPACE PROGRAM SUMMARIES - RANGER PROJECT, SURVEYOR PROJECT, MARINER PROJECT, DEEP SPACE COMMUNICATION SYSTEM, AND SPACE INSTRUMENT DEVELOPMENT
NASA-CR-59340 N64-33813 24-32

SURVIVAL
SA LIFE SUPPORT SYSTEM
CF SHELTER
DIURNAL FREEZE-THAWING AND SURVIVAL OF SELECTED BACTERIA N64-10989 02-16

HUMAN SURVIVABILITY OF EXTREME IMPACTS IN FREE FALL
CARI-63-15 N64-11995 03-16

SURVIVAL OF MODEL GENERATOR UNDER SUSTAINED TEST IN VACUUM WITHOUT DEGRADATION OF POWER OUTPUT
ASD-TDR-62-896, PT. 2 N64-12224 03-06

AEROSPACE MEDICINE - ESCAPE FROM HIGH SPEED AIRCRAFT AND SURVIVAL UNDER ENVIRONMENTAL STRESS
AGARDOGRAPH-52 N64-13493 04-16

SURVIVAL TIME OF MICE PROTECTED WITH NITRO-SUBSTITUTED HYDROCARBONS AFTER LETHAL DOSE OF X-RAYS N64-13507 05-16

BACTERIAL SURVIVAL IN SIMULATED EXTRATERRESTRIAL ENVIRONMENT
NASA-CR-53106 N64-16745 08-16

SURVIVAL OF MICE IN ABSENCE OF INERT GAS N64-17953 10-16

BACTERIAL SURVIVAL IN SIMULATED MARTIAN ENVIRONMENT
NASA-CR-50516 N64-22759 16-16

SURVIVAL OF MICROORGANISMS IN SIMULATED ENVIRONMENT OF MARS SURFACE N64-25115 17-16

SURVIVAL OF BACILLUS SUBTILIS IN SIMULATED MARTIAN ENVIRONMENT N64-29559 21-16

EFFECT OF VIBRATION AND RESTRAINT ON BODY WEIGHT AND SURVIVAL OF ALBINO RAT
REPT.-5 N64-29583 21-16

SUSCEPTIBILITY
S MAGNETIC SUSCEPTIBILITY

SUSPENSION
COAXIAL CYLINDRICAL RHEOMETER FOR MEASURING FLOW & VISCOELASTIC PROPERTIES OF POLYMERS & SUSPENSIONS BY OSCILLATORY AND STATIONARY METHODS N64-11376 02-15

FLUID FLOW OF SUSPENDED PARTICLES - SQUID PROJECT N64-13483 05-24

PERFORMANCE CHARACTERISTICS OF TAUT BAND SUSPENSION PANEL METERS FOR MILITARY APPLICATIONS
AD-440166 N64-21246 14-15

OPTICAL PROPERTIES OF MONOMODAL AND BIMODAL DISPERSIONS OF SILVER BROMIDE IN LIQUID AND GELATIN SUSPENSIONS
NASA-CR-56307 N64-23987 16-19

ACOUSTICAL AND CINEMATIC APPLICATIONS OF OPTICAL AND ELECTRICAL PROPERTIES OF PARTICLES IN SUSPENSION N64-24131 16-23

MAGNETIC AND ELECTRIC FORCES FOR ROTATING SHAFT SUSPENSION
EMI-3421-108-64U N64-27824 19-17

BEHAVIOR OF RHEOLOGICAL SUSPENSIONS UNDER STRESS N64-28190 20-11

OPTIMUM SUSPENDED PARTICLE SIZE FOR ACOUSTIC ATTENUATION IN ROCKET PROPELLANT COMBUSTION
ABL/X-115 N64-31030 22-23

MAGNETIC AND ELECTRIC FORCE STUDIES FOR ROTATING SHAFT SUSPENSION - ACTIVE-RADIAL SUPPORT AND MAGNETIC RESONANT SUPPORT SYSTEMS
EMI-3421-107-64U N64-31149 22-10

VISCOELASTIC BEHAVIOR OF HETEROGENEOUS SUSPENSIONS
TR-4 N64-32270 23-25

SUSPENSION SYSTEM
SA SPRING
AIRCRAFT SUSPENSION - METHODS & PROBLEMS OF INVESTIGATING AIRCRAFT PERFORMANCE N64-13560 05-23

DESIGN AND PRODUCTION OF RUGGEDIZED TAUT BAND SUSPENSION PANEL METER
AD-491325 N64-31596 23-15

SUSTAINER ENGINE
BOOST AND SUSTAINER ROCKET NOZZLES TO DETERMINE EFFECTS OF BASE BLEED, SUSTAINER NOZZLE DIAMETER, AND LONGITUDINAL POSITION ON BASE DRAG OF BODY
RF-TR-63-23 N64-12707 04-02

SWAGING
SWAGING OF VARIOUS URANIUM DIOXIDE POWDERS FOR USE IN FABRICATION OF FUEL ELEMENTS
EUR-353.D N64-12000 03-17

COLD SWAGING CAPABILITY AND HARDNESS OF DISPERSION STRENGTHENED, EXTRUDED NICHROME-THORIUM OXIDE ALLOYS
PR-4 N64-14632 06-19

EXTRUSION, FORGING, ROLLING, AND SWAGING OF TUNGSTEN-BASE ALLOYS
ASD-TDR-62-670, PT. 2 N64-18577 11-18

METAL FORMING BY CAPACITOR BANK DISCHARGES - SWAGING AND ELECTROHYDRAULIC FORMING
RN-175 N64-23225 16-09

SWEATING
EXCRETION OF LIPIDS & LIPIDIC SUBSTANCES IN HUMAN SWEAT
REPT.-280 N64-23896 16-16

MEASUREMENT OF PHYSIOLOGIC EVAPORATIVE WATER LOSS
CARI-63-25 N64-29846 21-16

SWELLING
SWELLING OF ALUMINUM-CLAD ALUMINUM-PLUTONIUM ALLOYS ON POSTIRRADIATION ANNEALING
ANL-6651 N64-12697 04-18

SWEPT WING
BOUNDARY LAYER CHARACTERISTICS ALONG UNDERSURFACES OF CARET WINGS
ARC-CP-694 N64-10055 01-03

TRANSONIC STUDY OF SWEPT WING PANEL OF PYRAMIDAL BODY
NASA-TN-D-2033 N64-11554 03-30

ROTATION-BALANCE AERODYNAMIC WIND TUNNEL DATA AND DIGITAL COMPUTER STUDY OF DEVELOPED SPINS AND RECOVERY OF SWEPTBACK-WING AIRCRAFT CONFIGURATION
NASA-TN-D-2181 N64-15330 07-04

COMPARISON OF KERNEL FUNCTION AND STRIP METHODS OF SUBSONIC FLUTTER CALCULATIONS FOR SWEPT AND UNSWEPT WINGS
NASA-TN-D-2297 N64-20289 13-33

AERODYNAMIC CHARACTERISTICS OF AIRCRAFT CONFIGURATIONS WITH HIGHLY SWEPT TWISTED AND CAMBERED ARROW WINGS AT HYPERSONIC SPEEDS
N64-20294 13-04

LOW SPEED AERODYNAMICS OF STRAIGHT AND SWEPT WINGS WITH FLOW SEPARATION
VIDYA-91 N64-21152 14-03

STALL CHARACTERISTICS OF SWEPT WING CONFIGURATIONS
NASA-TN-D-2373 N64-24822 17-03

VELOCITY DISTRIBUTION DUE TO THICKNESS OF SWEPT WINGS WITH SUBSONIC EDGES AT SUPERSONIC SPEEDS
ARC-CP-654 N64-25074 17-02

PURE BENDING FLUTTER OF SWEPT WING IN HIGH DENSITY AND LOW SPEED FLOW
REPT.-64-1 N64-30187 21-03

EFFECT OF SKEWED WING-TIP CONTROLS ON HIGHLY SWEPT ARROW WING AT SUPERSONIC SPEEDS
NASA-TN-D-1867 N64-31224 22-03

HEAT TRANSFER DISTRIBUTION ON SWEPT DELTA WINGS WITH SHARP OR BLAND NOSES AND CYCLINDRICAL LEADING EDGE AT MACH 9.86 UP TO 90-DEG ANGLE OF ATTACK
NASA-TN-D-2302 N64-31731 23-13

SUPERSONIC WIND TUNNEL TEST TO DETERMINE EFFECTIVENESS OF BOUNDARY LAYER SUCTION FOR LAMINAR FLOW CONTROL ON SWEPT WING
AEDC-TDR-64-221 N64-33951 24-03

SWEPTBACK TAIL SURFACE
WIND-TUNNEL FLUTTER STUDIES OF SWEPTBACK T-TAIL FOR LARGE MULTIJET CARGO AIRCRAFT AT MACH NUMBERS TO 0.90
NASA-TN-D-2179 N64-17725 09-04

SWEPTBACK WING
LATERAL CONTROL & HINGE MOMENT OF SPOILER-SLOT-DEFLECTOR ON SWEPTBACK WING AT SUBSONIC SPEED
NASA-TN-D-2037 N64-10617 01-02

STRESS DISTRIBUTION IN SWEPTBACK WINGS
NRL-TM-S.600 N64-20434 13-33

ASYMPTOTIC METHOD FOR LIFT DISTRIBUTION DETERMINATION OF SWEPTBACK WING OF FINITE SPAN
AGM-114 N64-26758 18-03

SWITCH
SA ELECTRONIC SWITCH
SA SWITCHING CIRCUIT
FERRITE SWITCH CONSISTING OF POWER DIVIDER, TWO FERRITE PHASE SHIFTERS, AND SLOT BRIDGE
N64-12731 04-09

AUTOMATIC TUNING SYSTEM - OPTIMIZATION OF FERRITE SWITCH BY VARYING FERRITE PARAMETERS
N64-12741 04-09

SPARK GAP FOR CAPACITOR BANK SWITCHING
ARL-63-219 N64-14365 06-09

GAS-TRIGGERED INVERSE PINCH SWITCH
N64-15308 07-09

RELIABILITY ENGINEERING FOR PRODUCTION OF DIFFUSED SILICON CONTROLLED SWITCH
AD-434272 N64-18316 10-17

ELECTRICAL RELIABILITY REQUIREMENTS FOR SEALED SWITCHING DEVICES FOR NUCLEAR WEAPONS
N64-19517 12-17

SILICON CONTROLLED RECTIFIER FOR ELECTRIC CURRENT SWITCHING - SOLID STATE DEVICE N64-19526 12-09

OPERATION AND BIASING OF PERMANENT MAGNET DRY REED SWITCHES N64-19532 12-09

ELECTROMECHANICAL SWITCHING ELEMENT - GLASS ENCAPSULATED REED RELAYS N64-19534 12-09

DRY REED RELAY SWITCHING DEVICES - CHARACTERISTICS AND APPLICATIONS N64-19538 12-09

PRODUCTION STEPS FOR FAST SWITCHING SILICON TRANSISTOR FOR MILITARY AND SPACE APPLICATION
NASA-CR-53841 N64-19591 12-09

HIGH POWER FERRITE SWITCH
SJ-222-0047-2 N64-22099 15-09

PERFORMANCE RELIABILITY OF ALL-DIFFUSED SILICON CONTROLLED SWITCH
QPR-3 N64-25318 17-17

OPTIMUM SETTING OF RATE SWITCH - STRUCTURAL LOADING AND INADVERTENT SWITCHOVER CONSIDERATIONS
LV-351 N64-25955 18-33

SYNTHESIS OF MULTICHANNEL DISCRETE-CONTINUOUS FILTER IN INPUT SWITCHES N64-26385 18-09

INDUCTIVE ENERGY STORAGE SYSTEM USING IGNITION SWITCHES
MATT-264 N64-26455 18-09

POWER SILICON GATE CONTROLLED SWITCH FOR HIGH VOLTAGE AND HIGH CURRENT SWITCHING
NASA-CR-94 N64-28314 20-09

THEORY AND OPERATION PRINCIPLE OF LIQUID METAL SWITCH
NASA-CR-58339 N64-28992 20-06

PRODUCTION ENGINEERING TECHNIQUES FOR IMPROVED RELIABILITY OF DIFFUSED SILICON CONTROLLED SWITCH
QPR-4 N64-29844 21-17

LIFE TESTS ON COMBINATION DEVICES INCORPORATING GAS PRETRANSMITTER-RECEIVER ELECTRON TUBE, GAS CRYSTAL PROTECTOR, AND SOLID STATE P-I-N SWITCH
QPR-5 N64-30457 22-09

TEN NANOSECOND SEMICONDUCTOR SWITCH
NASA-CR-58794 N64-30522 22-09

APPROXIMATE GAMMA TRANSMISSION AND DOSE BUILDUP FOR THIN SHIELDS FROM SCATTERED RADIATION
TO-B-64-44 N64-30684 22-23

DEVELOPMENT OF HIGH POWER FAST FERRITE SWITCHES IN C- AND S-BAND
IDR-3 N64-30867 22-09

DIGITAL SELECTOR SWITCH TESTING AND PACKAGING
MPR-6 N64-31617 23-09

DIGITAL SELECTOR SWITCH MODULES FOR VIBRATION ENVIRONMENTAL TESTING
AD-447841 N64-32169 23-09

SWITCHING
WIRING AND SWITCHING MECHANISMS OF MACHINES IN SELF-REPAIRING SYSTEM
R-172 N64-19399 12-20

OPERATION AND BIASING OF PERMANENT MAGNET DRY REED SWITCHES N64-19532 12-09

ELECTRON BEAM MULTIPLIER TUBE FOR HIGH SPEED POWER AMPLIFIER USING BEAM SWITCHED P-N JUNCTIONS
AD-428020 N64-19970 12-09

OPTIMAL LINEAR SWITCHING FOR SINGULAR LINEAR SYSTEMS
R-196 N64-23924 16-09

GEOMETRY EFFECTS ON SWITCHING POINT OF BISTABLE FLUID AMPLIFIER MODEL N64-25271 17-11

TRAINING PLAN FOR PERSONNEL TO MONITOR FLIGHT CONTROL SYSTEM FOR DETECTING SLOW MALFUNCTION PROBLEMS N64-25355 17-14

SWITCHING CONDITIONS IN COMBINED TRACKING SYSTEMS WITH VARIABLE STRUCTURE N64-26392 18-09

SEMICONDUCTOR SWITCHING AND LIMITING USING 3 DB SHORT SLOT /HYBRID/ COUPLERS
USAELRDL-TR-2409 N64-26557 18-09

SWITCHING MAGNET WITH LAMINATED H-TYPE MULTISTRANDED WATER-COOLED COIL FOR ELECTRON BEAM

SLAC-28 N64-26607 18-09

LINEAR GRAPH ANALYSIS OF ACTIVE AND PASSIVE NETWORKS - APPLICATION TO SWITCHING AND COMMUNICATION NETWORKS
R-203 N64-28006 20-09

DERIVING THEORY OF RETICULAR FORMATION FROM SWITCHING THEORY, MATHEMATICAL LOGIC, AND NONLINEAR CONTROL THEORY CONSIDERATIONS
ERL-8-0009-622 N64-28916 20-16

COMPUTER PROGRAM FOR GAIN AND LOSS CHARACTERISTICS OF LASERS, GALLIUM ARSENIDE LASER DIODES, AND SWITCHING IN INJECTION LASERS
QPR-4 N64-30534 22-25

THREE-PHASE SYNCHRONOUS GENERATOR WITH MAGNETIC FLUX THROWOVER AS SOURCE OF HIGH FREQUENCY ELECTRIC ENERGY
FTD-TT-64-486/162 N64-30878 22-06

DIGITAL DATA COMMUNICATIONS SYSTEM BASED ON DISTRIBUTED NETWORK - HIGH DATA RATE SWITCHING NODE DESIGN - RAND PROJECT
RM-3763-PR N64-33230 24-08

MAGNETIC FLUX SWITCHING IN FERRITES - APPLICATION OF PARABOLIC SWITCHING MODELS TO SOLUTIONS OF MAGNETIC CIRCUITS
NASA-CR-59245 N64-33290 24-09

SWITCHING CIRCUIT
SWITCHING CIRCUIT TEST DESIGN AND APPLICATION OF NUMBER THEORY TO CIRCUIT TRANSFORMING SEQUENCES
JPRS-17504 N64-10477 01-09

ELECTROMAGNETIC RELAY SWITCHING CIRCUIT FOR MULTIPOINT REGULATION - POTENTIOMETER
FTD-TT-63-431/162 N64-11163 02-06

COMPUTER PROGRAM FOR SWITCHING CIRCUIT ANALYSIS - FUNCTIONAL ANALYSIS OF HYDRAULIC & ELECTRIC CONTROL CIRCUITS
LAMS-2986 N64-12114 03-20

BIBLIOGRAPHY ON AUTOMATA, LOGIC & COMPUTATION, NEUROPHYSIOLOGY, AND SWITCHING IN THEORETICAL DEVICES
AFCRL-63-515 N64-13622 05-20

GAS DISCHARGE CONFINEMENT MECHANISMS FOR IMPROVED PERFORMANCE OF GAS DISCHARGE DUPLEXERS
RADC-TDR-63-500 N64-13788 05-24

FERRITE MATERIAL FOR ELASTIC SWITCHING IN ASSOCIATIVE MEMORY SYSTEMS
RADC-TDR-63-483 N64-17151 09-20

THRESHOLD LOGIC AND RELIABILITY OF ADJUSTABLE SWITCHING NETWORKS
AFCRL-64-66 N64-18914 11-09

MULTIPLE-OUTPUT BINARY COMBINATIONAL SWITCHING NETWORKS
AFCRL-64-7 N64-19144 11-09

AUTOMATA THEORY APPLIED TO SEQUENTIAL MACHINES - SWITCHING CIRCUITS
R-168 N64-19397 12-17

ALGORITHM FOR SYNTHESIZING ASYNCHRONOUS SEQUENTIAL SWITCHING CIRCUITS FOR LARGE DIGITAL COMPUTERS
R-169 N64-19398 12-20

POWER SWITCHING WITH SUBMINIATURE SEALED RELAYS IN MANNED SPACECRAFT SYSTEMS N64-19502 12-09

MAGNETIC DRUM MEMORY AS LOW COST STORAGE DEVICE FOR COMPUTER AND SWITCHING CONTROL SYSTEMS N64-19503 12-09

DIGITAL COMPUTER DESIGN TECHNIQUES, HEURISTIC PROGRAMMING AND CODING STATES OF SWITCHING CIRCUITS
RTD-TDR-63-4173, VOL. 3 N64-19657 12-20

DESIGN & TESTING OF PHASE BIT AND TRANSFORMED SWITCH CIRCUIT
FR-64-14-17 N64-19868 12-09

TRANSISTOR SWITCHING CIRCUIT N64-26974 19-09

SURVEY OF SOVIET SWITCHING THEORY AND LOGICAL DESIGN OF DIGITAL SYSTEMS - BIBLIOGRAPHY
AFCRL-64-452 N64-27079 19-09

SPEED INDEPENDENCE OF ELEMENTS IN LOGIC SWITCHING CIRCUITS
R-205 N64-27573 19-09

RATIO DETECTOR ARRAY SYSTEM - SWITCHING CIRCUITS OPERATING AT LOW SIGNAL TO NOISE RATIO
NASA-CR-56840 N64-27973 20-09

PROBABILITY DISTRIBUTION OF ANTENNA GAIN FOR SATELLITES WITH SWITCHED ANTENNA SYSTEMS
ESD-TDR-64-28 N64-29609 21-08

HIGH CURRENT, MULTIPLE CIRCUIT SWITCHING TECHNIQUES NEAR REACTOR OF NUCLEAR POWER CARRIER
RTD-TDR-63-3062 N64-32280 23-09

INTERFERENCE IMMUNITY OF DIVERSITY-RECEPTION SYSTEM WITH ANTENNA SWITCHING N64-32919 24-08

SWITCHING ELEMENT
MATHEMATICAL MODEL FOR INPUT-OUTPUT DEVICES AND THEIR CONNECTIONS
AFCRL-64-4 N64-16818 08-20

MERCURY POOL CATHODE AS ELECTRON SOURCE FOR HIGH POWER SWITCHING ELEMENT
RADC-TDR-64-97 N64-20031 13-09

MICROWAVE DUPLEXER SWITCHING MECHANISM
REPT.-2 N64-22494 15-09

ELECTRICAL SWITCHGEAR FOR SPACE NUCLEAR ELECTRICAL SYSTEMS
NASA-CR-54059 N64-24054 16-09

SEVERE TEMPERATURE AND NUCLEAR ENVIRONMENTAL EFFECTS ON SILICON INTEGRATED CIRCUITS FOR SWITCHING AND MULTIPLEXING EQUIPMENT
USAELRDL-TR-2447 N64-25298 17-09

HIGH CURRENT, HIGH VOLTAGE SILICON FOUR-LAYER DIODE WITH AVALANCHE DIODE CHARACTERISTICS FOR USE AS HIGH POWER SWITCHING DEVICE
RADC-TDR-230 N64-29969 21-09

ORGANIC DYE MATERIALS FOR USE WITH PASSIVE RUBY LASER Q-SWITCHING ELEMENTS
TO-B-64-54 N64-30685 22-25

EFFICIENT MULTICHANNEL AIR GAP SWITCHES
USAEL-TR-2484 N64-32499 23-09

SILICON CONTROL RECTIFIERS FOR SWITCHING DEVICES
AD-448624 N64-32542 23-17

TESTING DISCRETE ACTION ELEMENTS AT HIGH SWITCHING FREQUENCIES N64-32904 24-09

HIGH CURRENT SWITCHING DEVICES - DEVELOPMENT OF MATHEMATICAL MODELS REPRESENTING ENERGY CONVERSION SYSTEMS IN POWER RELAY
NASA-CR-59002 N64-33207 24-09

SWITCHING FUNCTION
SENSITIVITY AND SWITCHING DELAY IN TRIGGER CIRCUIT
EUR-403.1 N64-16203 08-09

PIECEWISE LINEAR SWITCHING FUNCTIONS FOR MINIMUM-TIME FEEDBACK CONTROL SYSTEM
NASA-CR-53101 N64-16738 08-06

MATHEMATICAL LOGIC OF MULTIPLE TRUTH MODES FOR SWITCHING FUNCTION AND GATE CIRCUIT APPLICATIONS
USAELRDL-TR-2435 N64-20382 13-20

AUTOMATIC CONTROL SYSTEMS WITH VARIABLE STRUCTURE HAVING DISCONTINUOUS SWITCHING FUNCTION N64-24706 17-16

SWITCHING TIMES OF BISTABLE FLUID AMPLIFIERS AT VARIOUS POWER AND CONTROL JET PRESSURES

N64-25270 17-11

SYNTHESIS OF SWITCHING FUNCTION BY LINEAR GRAPH THEORY
AD-601155 N64-25407 17-09

SWITZERLAND
VERTICAL DISTRIBUTION OF OZONE OVER SWITZERLAND
AFCRL-64-303 N64-21235 14-12

SYMBOL
PATTERN RECOGNITION SYSTEMS - RECEPTOR EFFECTIVENESS AND SYMBOL RECOGNITION
REPT.-1070 N64-19418 12-23

SYSTEM THAT RECOGNIZES ALPHABETIC AND NUMERICAL SYMBOLS, DISCRIMINATES FROM BACKGROUND, AND CAN EXPAND ITS REPERTOIRE N64-19420 12-23

DESIGN MECHANIZATION OF PROBLEM-ORIENTED SYMBOL PROCESSOR - LOGIC, DIAGNOSTIC PROGRAMS, READ-ONLY MEMORY LAYOUT PROGRAM, AND ALGOL ARITHMETIC COMPILER
AFCRL-64-454/2/ N64-26897 18-20

SYMMETRICAL BODY
FORWARD SEPARATION ZONES - CONFIGURATION DURING SUPERSONIC GAS FLOW AROUND SYMMETRICAL BODIES AT ZERO ANGLE OF ATTACK N64-16389 08-02

RESIDUAL STRESSES IN SYMMETRICAL BODIES, FORMATION OF AUSTENITIC & MARTENSITIC STEEL, AND TEMPERING OF QUENCHED STEEL
FTD-TT-62-1762/1&2 N64-19180 11-17

AERODYNAMIC STABILITY OF BILATERALLY SYMMETRICAL TOWED BODY
NOLTR-64-116 N64-30595 22-03

SYMMETRY
SA AXISYMMETRY
CENTERING CORRECTION FOR INSPECTION OF OFF-CENTER PART HAVING ROTATIONAL SYMMETRY - HARMONIC ANALYSIS
Y-1445 N64-10665 01-20

FORTRAN PROGRAMS FOR ELECTRON DENSITY AND SYMMETRY PROJECTION - MATRIX CALCULATION
E-359-P N64-14362 06-23

WEAK MESON-NUCLEON INTERACTION THEORY AND UNITARY SYMMETRY MODEL
UR-875-19 N64-16560 08-23

QUARKS, TRIALITY, AND NEEMAN GELLMANN THEORY OF UNITARY SYMMETRY
UR-875-22 N64-16670 08-23

OPERATOR STRUCTURE IN SYSTEMATIC UNITARY SYMMETRY WITH APPLICATION TO TRIPLETS N64-17025 09-23

CRYSTAL STRUCTURE - ENERGY BAND EVALUATION, SYMMETRY PROPERTIES, AND POTENTIALS
AD-429325 N64-18657 11-25

NEW SPACE GROUP TECHNIQUE FOR OBTAINING IRREDUCIBLE REPRESENTATIONS RELATED TO STANDARD TECHNIQUE N64-18659 11-25

SYMMETRY OF ALGEBRAIC CLOSURE IN GRADUATED FIELDS OF MEROMORPHIC FUNCTIONS
MRC-468 N64-21156 14-20

SYMMETRICALLY LOADED ANISOTROPIC SHELLS OF REVOLUTION N64-22805 16-23

PARAMETERS OF BENDING-AND-STRETCH PROCESSES FOR PROFILES WITH TWO AXES OF SYMMETRY N64-23074 16-17

CRYSTAL SYMMETRY ANALYSIS OF STRUCTURAL SPACE GROUP
TR-3 N64-24881 17-25

TRIALITY QUANTUM NUMBER IN SU/3/ AND U/3/ SYMMETRY AND ITS APPLICATION TO WEAK INTERACTIONS
UR-875-37 N64-25825 17-29

QUANTUM MECHANICS - SYMPLECTIC SYMMETRY IN F-SHELL NUCLEI
UR-875-43 N64-25827 17-23

UNITARY SYMMETRY AND WEAK INTERACTIONS N64-26098 18-23

TRILINEAR COUPLINGS FORBIDDEN BY NONET SYMMETRY FOR VECTOR MESONS - HIGH ENERGY INELASTIC PROCESS
TH-60 N64-26265 18-23

TWO VERSIONS OF WEAK INTERMEDIATE VECTOR BOSON THEORY WITHIN UNITARY SYMMETRY
UR-875-36 N64-26449 18-23

COUPLING CONSTANTS IN BROKEN UNITARY SYMMETRY
TH-61 N64-26601 18-23

TRIPLET REPRESENTATIONS IN UNITARY SYMMETRY THEORIES
UR-875-27 N64-26685 18-23

INFLUENCE OF SYMMETRY ON OPTICAL SELECTION AND LINE INTENSITY CHANGE BY ELECTRIC FIELD TO REDUCE SYMMETRY
ML-973 N64-27234 19-23

QUANTUM CORRECTION TO PHASE SHIFT IN COLLISION OF PARTICLES WITH SPHERICALLY SYMMETRIC POTENTIAL
WIS-TCI-34A N64-27418 19-23

AXIALLY SYMMETRIC OSCILLATIONS OF CYLINDRICAL SHELLS IN SUPERSONIC GAS FLOW N64-28482 20-33

STRUCTURE, SYMMETRY, AND SPACE TIME OF ELEMENTARY PARTICLES
RIFP-39 N64-29615 21-23

PHOTOPRODUCTION OF BARYONS & MESONS AND UNITARY SYMMETRY
UR-875-52 N64-33006 24-23

ALGEBRAIC TABULATION OF CLEBSCH-GORDAN COEFFICIENTS OF UNITARY SYMMETRY
UR-875-56 N64-33070 24-23

MATRIX ELEMENTS OF DECUPLET OPERATOR OF UNITARY SYMMETRY - TENSOR METHOD
UR-875-53 N64-33141 24-23

PARITY INTERCHANGE OF STRONGLY INTERACTING PARTICLES BASED ON HIGHER SYMMETRY GROUP
UR-875-55 N64-33142 24-23

SYNAPSE
DEVELOPMENT OF SYNAPSES AND CONNECTIONS OF NERVOUS SYSTEM WITH SOMATIC MUSCULAR SYSTEM
JPRS-21415 N64-10595 01-16

SYNCHRO
HIGH TEMPERATURE SYNCHROS - ORGANIC AND INORGANIC INSULATING MATERIALS N64-31477 23-17

QUIET SYNCHROS - MATHEMATICAL COMPUTATIONS AND EXPERIMENTAL INVESTIGATIONS IN ACOUSTICAL NOISE REDUCTION N64-31478 23-17

SYNCHRO RECEIVER AND APPLICATION TO NUCLEAR REACTOR AND WIND DIRECTION INDICATORS N64-31479 23-17

OBTAINING DIGITAL SHAFT ANGLE DATA FROM RESOLVERS AND SYNCHROS N64-31489 23-17

HIGH ACCURACY SINGLE SPEED RESOLVERS & SYNCHROS - ACCURATE DATA TRANSMISSION N64-31505 23-17

SYNCHROCYCLOTRON
REDUCTION OF ENERGY SPREAD OF SYNCHROCYCLOTRON BEAMS DUE TO RADIAL OSCILLATIONS AND TARGET THICKNESS
UR-875-17 N64-12387 03-23

SPACE, TIME, AND ENERGY DISTRIBUTIONS OF PROTON BEAM FROM SYNCHROCYCLOTRON N64-12550 04-23

SYNCHROCYCLOTRON PROTON BEAM INTENSITY MONITORING FOR ENERGY SPECTRUM MEASUREMENTS OF NUCLEAR SECONDARIES N64-12551 04-23

HIGH INTENSITY MUON BEAM WITH LOW PION CONTAMINATION AT THE CERN SYNCHROCYCLOTRON
CERN-63-35 N64-15616 07-23

ALARM SYSTEM FOR SURVEILLANCE OF SYNCHROCYCLOTRON
CERN-64-7 N64-18343 10-09

INTENSITY MEASUREMENT OF PROTON BEAM OF SYNCHROCYCLOTRON WITH THIN HELIUM PLATE IONIZATION CHAMBERS
NASA-CR-53566 N64-18427 10-23

IBM 7090 COMPUTER PROGRAM FOR BEAM OPTICS PROBLEMS ON SYNCHROCYCLOTRON
CERN-64-15 N64-19493 12-20

DESIGN AND OPERATION OF CYCLOTRONS AND SYNCHROCYCLOTRONS AND AUXILIARY EQUIPMENT
NASA-CR-56934 N64-28163 20-10

BEAM TRANSPORT SYSTEM FOR 600-MEV SYNCHROCYCLOTRON
N64-28166 20-10

BEAM EXTRACTION SYSTEM FOR SYNCHROCYCLOTRON
N64-28167 20-10

EFFECTIVE SECTION BETWEEN COMPETING DISINTEGRATION SCHEMES FOR RADIOACTIVE ISOTOPE OF BARIUM PRODUCED BY SYNCHROCYCLOTRON BOMBARDMENT OF CESIUM
N64-32012 23-23

RADIATION HAZARDS IN SYNCHROCYCLOTRON BEAMS AND NEAR BEAM ZONES
NASA-TT-F-9136 N64-33402 24-16

SYNCHRONIZATION
DEFINITION AND CLASSIFICATION FOR SYNCHRONIZING CODING SYSTEMS OF AUTOMATIC CONTROL SYSTEMS
N64-10829 02-20

MUTUAL SYNCHRONIZATION OF COUPLED SELF-OSCILLATORS WITH NATURAL FREQUENCIES IN APPROXIMATE MULTIPLE RATIO
N64-12734 04-09

CODE SYNCHRONIZATION TECHNIQUES FOR COMMUNICATION SYSTEMS
TDR-269/4111/-9 N64-13890 05-08

SYNCHRONIZATION FOR DIGITAL COMMUNICATION VIA SATELLITE
N64-16161 08-08

FRAME SYNCHRONIZATION AND ERROR CORRECTION BY PULSE-CODE MODULATED SYSTEMS N64-16180 08-08

VERY LOW FREQUENCY RADIO PROPAGATION AND CLOCK SYNCHRONIZATION
N64-19698 12-08

HUMAN MUSCLE SYNCHRONIZATION WHILE MAINTAINING FIXED POSITION
JPRS-24606 N64-21826 15-16

EFFICIENT PULSE CODE MODULATION ERROR CORRECTION AND SYNCHRONIZATION CODE
NASA-TN-D-2317 N64-22671 15-08

SYNCHRONIZATION OF INTEGRAL REGULATOR FOR ROTATION SPEED OF DIRECT CURRENT MOTORS N64-23574 16-09

RELATIONSHIP OF PROBABILITY OF BIT ERROR IN PHASE MODULATION SYSTEM TO RECEIVED SIGNAL POWER, NOISE INTENSITY, AND BIT RATE OF SOURCE
NASA-CR-56621 N64-24034 16-20

SYNCHRONIZATION AND TIME MAINTENANCE BETWEEN SYNCOM SATELLITE AND SYNCOM STATIONS
NASA-TM-X-55016 N64-27252 19-08

TRANSISTORIZED CONVERTER FOR SYNCHRONIZATION OF INDUCTION MOTORS
LFEN.13 /ALPHA, ZETA/ N64-29886 21-09

STROBOSCOPE WITH SYNCHRONIZING FEEDBACK FOR STUDY OF VOCAL CORDS N64-30394 22-16

THREE-PHASE SYNCHRONOUS GENERATOR WITH MAGNETIC FLUX THROWOVER AS SOURCE OF HIGH FREQUENCY ELECTRIC ENERGY
FTD-TT-64-486/1&2 N64-30878 22-06

COMPOSITE CODES FOR SYNCHRONIZATION OF CODED AND COHERENT COMMUNICATION SYSTEMS
SSD-TDR-64-102 N64-30985 22-08

SYNCHRONOUS COMMUNICATIONS /SYNCOM/ SATELLITE
RANGE AND RANGE RATE SYSTEM AND DATA ANALYSIS FOR SYNCOM I SATELLITE
NASA-TN-D-2139 N64-21264 14-08

ELECTRONIC PARTS AND COMPONENT RELIABILITY FOR SYNCOM I SATELLITE
NASA-TM-X-55012 N64-27249 19-09

SYNCHRONIZATION AND TIME MAINTENANCE BETWEEN SYNCOM SATELLITE AND SYNCOM STATIONS
NASA-TM-X-55016 N64-27252 19-08

SYNCOM C SATELLITE AND THRUST AUGMENTED DELTA /TAD/ LAUNCH VEHICLE N64-27757 19-32

MOMENTUM BIAS ATTITUDE CONTROL FOR SYNCHRONOUS COMMUNICATIONS /SYNCOM/ SATELLITE
TOR-269/4540-70/-1 N64-28670 20-32

SYNCHRONOUS COMMUNICATIONS /SYNCOM-II/ SATELLITE
SUBSATELLITE PATH FOR 24-HOUR ORBITS AFFECTED BY CHANGES IN ECCENTRICITY, INCLINATION, AND ARGUMENT OF PERIGEE - ORBITAL PATH OF SYNCOM II
NASA-TM-X-54564 N64-15864 07-29

TRIAXIALITY OF EARTH FROM OBSERVATIONS ON DRIFT OF SYNCOM II SATELLITE - LONGITUDINAL DEPENDENCE OF EARTH GRAVITATIONAL FIELD
NASA-TM-X-55003 N64-23935 16-08

SYNCOM II ELECTRICAL POWER SYSTEM
AIAA PAPER-64-456 N64-25047 17-09

EFFECT OF SHIELDING ON SOLAR ENERGY CONVERSION EFFICIENCY OF SYNCOM II SOLAR CELL ASSEMBLY
N64-29161 21-06

SYNCHRONOUS COMMUNICATIONS SATELLITE PROJECT
TRANSMITTING AND RECEIVING EQUIPMENT FOR SYNCOM GROUND STATION
SYN-52-07-01, VOL. 1 N64-33073 24-08

SYNCHRONOUS SATELLITE
OPTIMIZATION OF 24-HOUR COMMUNICATION SATELLITE ORBITAL CONTROL PROCESS
RM-3255-NASA N64-12953 04-30

LUNISOLAR EFFECT ON PERTURBATIONS OF NOMINALLY GEOSTATIONARY SATELLITES
RAE-TN-SPACE-47 N64-13339 04-29

SYNCHRONOUS SATELLITE SYSTEM
S SATELLITE

SYNCHROTRON
CF PARTICLE ACCELERATOR
ARTIFICIAL RADIATION BELT SYNCHROTRON RADIATION CALCULATION
NASA-RP-67 N64-10359 01-28

RADIATION THERAPY, SYNCHROTRON OPERATION, RADIOBIOLOGY, & RADIATION GENETICS STUDIES
UCSF-23 N64-13133 04-16

MUON PAIR PHOTOPRODUCTION IN SYNCHROTRON
RT/F1/63/37 N64-13207 04-23

FAST PROTON BEAM EXTRACTION FROM SYNCHROTRONS
N64-15507 07-23

CALCULATION OF SYNCHROTRON RADIATION FROM ARTIFICIAL RADIATION BELT
NASA-TN-D-2097 N64-16117 08-12

USE OF TRAVELING WAVEGUIDE IN PASS-BAND REGION AS WIDEBAND ACCELERATING STRUCTURE FOR PROTON SYNCHROTRON
CERN-64-10 N64-18122 10-23

SUPERSONIC FLOW PAST WEDGE, HYDRODYNAMIC EQUATIONS WITH RADIATION, AND PROTON SYNCHROTRON THEORY
FTD-TT-62-958/1&2 N64-20363 13-01

PRINCIPLES OF PROTON SYNCHROTRON THEORY

N64-20366 13-23

BEAM INJECTION TO LARGE RADIO FREQUENCY SYNCHROTRON - PARTICLE ACCELERATION
CERN-64-20 N64-21775 15-24

ELECTROMAGNETIC INTERACTION OF ELECTRON CLUSTERS DURING COHERENT RADIATION IN SYNCHROTRON
FTD-TT-62-1747/1&2&4 N64-21925 15-23

RADIATION THERAPY OF BRAIN TUMOR WITH HIGH ENERGY ALPHA PARTICLE BEAM FROM LARGE SYNCHROCYCLOTRON
N64-22865 16-16

MEASUREMENTS ON SLOW PROTON-BEAM-EJECTION FROM PROTON SYNCHROTRON
CERN-64-25 N64-26558 18-23

PULSED BEAM TRANSPORT EQUIPMENT FOR EXTERNAL PROTON BEAM OF SYNCHROTRON
CERN-64-35 N64-32671 23-10

SYNOPTIC METEOROLOGY
SYNOPTIC INTERPRETATIONS OF CLOUD VORTEX PATTERNS OBSERVED BY METEOROLOGICAL SATELLITES
ARA-F-8243-2 N64-11744 03-21

PROBLEMS OF LONG-RANGE WEATHER FORECASTING AND INFLUENCE OF SOLAR ACTIVITY ON SYNOPTIC PROCESSES
JPRS-23237 N64-15152 07-21

SYNOPTIC OSCILLATIONS OF HIGH PRESSURE AREAS OVER INDIA DURING TRANSITION SEASON N64-16306 08-21

MECHANISM OF HOOK ECHO CLOUD FORMATION - PRELIMINARY MESOSYNOPTIC ANALYSIS OF TORNADO CYCLONE OF MAY 26, 1963 N64-18392 10-21

SYNOPTIC METHOD OF LONG RANGE WEATHER FORECASTING
N64-19436 12-21

SYNOPTIC METEOROLOGY - WIND CIRCULATION AND ATMOSPHERIC PRESSURE IN UPPER ATMOSPHERE
NASA-TM-X-51597 N64-19610 12-21

IGY UPPER AIR CHARTS FOR CONSTANT PRESSURE SURFACES AT STRATOSPHERIC LEVELS FOR NORTHERN HEMISPHERE - SYNOPTIC WEATHER MAPS
N64-19896 12-21

SYNOPTIC CLIMATOLOGY & TROPICAL METEOROLOGY
AD-435579 N64-24062 16-21

SYNOPTIC WEATHER FORECASTING N64-24406 17-21

SYNOPTIC METEOROLOGY - MACHINE ANALOGS FOR WEATHER FORECASTING N64-24803 17-21

CLASSIFICATION OF MACRO-SYNOPTIC METEOROLOGICAL PROCESSES N64-24804 17-21

MEDIUM RANGE WEATHER FORECASTING METHOD EMPLOYING SYNOPTIC CHARTS
JPRS-25509 N64-25535 17-21

PROBLEMS OF SYNOPTIC METHOD OF LONG RANGE WEATHER FORECASTING N64-26438 18-21

DIABATIC HEATING AND COOLING IN SYNOPTIC SCALE WEATHER SYSTEMS
CIR-4042 N64-26694 18-21

INDICATIONS OF SYNODICAL PERIOD IN SUNSHINE OBSERVATIONS FOR BOSTON, MASSACHUSETTS, AND COLUMBIA, MISSOURI - SYNOPTIC METEOROLOGY
AFCRL-64-150 N64-27744 19-21

DAILY AND MONTHLY NORTHERN HEMISPHERE 10-MILLIBAR SYNOPTIC WEATHER MAPS FOR 1964
AD-421059 N64-28467 20-21

TURBULENCE IN UPPER TROPOSPHERE OVER TRANSCAUCASIA IN RELATION TO TYPES OF SYNOPTIC PROCESSES
JPRS-26523 N64-30373 22-21

RADAR PRECIPITATION PROFILES OF RAINSTORMS AND APPLICATIONS IN SYNOPTIC METEOROLOGY
MW-37 N64-32478 23-21

DAILY AND MONTHLY NORTHERN HEMISPHERE 30-MILLIBAR SYNOPTIC WEATHER MAPS, APR. - JUN. 1963
QTSR-2 N64-33091 24-21

CUMULUS CONVECTION AND OROGRAPHIC CONVECTION CELLS - SYNOPTIC STUDY OF MONSOON RAINFALL IN SOUTHEAST ASIA
REPT.-4 N64-33707 24-21

SYNOPTIC PERIOD
FLUCTUATIONS OF HIGH-ALTITUDE PLANETARY FRONTAL ZONES DURING NATURAL SYNOPTIC PERIODS - WEATHER FORECASTING N64-13468 05-21

FORECASTING DEFORMATION OF HIGH-ALTITUDE PLANETARY FRONTAL ZONE DURING NATURAL SYNOPTIC PERIODS
N64-13470 05-21

CALCULATING MEAN VALUE OF HIGH ALTITUDE HYDROGEN IN NATIONAL SYNOPTIC PERIOD N64-19432 12-21

COMPILING OBJECTIVE FORECASTS FOR MAPS OF MEAN VALUE OF HIGH ALTITUDE HYDROGEN IN SYNOPTIC PERIOD
N64-19434 12-21

BARIE FIELD CALCULATION OF SYNOPTIC PERIOD FROM FIRST-DAY DATA - WEATHER FORECASTING
N64-26437 18-21

SYNOPTIC SYSTEM
SYNOPTIC SITUATIONS ASSOCIATED WITH CYCLONES IN UNITED STATES
AFCRL-63-716 N64-11181 02-21

SYNOPTICAL MEASUREMENT
SYNOPTIC CHARTS OF MAGNETIC DISTURBANCE IN ARCTIC REGION N64-11660 03-12

SYNOPTIC CHARTS OF SOLAR CHROMOSPHERE
N64-25519 17-29

HYDROMETEOROLOGICAL STATIONS FOR OCEANOGRAPHIC SYNOPTIC SURVEYS
JPRS-26999 N64-33958 24-12

SYNTHESIS
SA PHOTOSYNTHESIS
CF CHEMICAL REACTION
ULTRAVIOLET SYNTHESIS OF ADENOSINE TRIPHOSPHATE UNDER POSSIBLE PRIMITIVE EARTH CONDITIONS
NASA-CR-52132 N64-10092 01-12

SYNTHESIS OF NEW COMPOUNDS FOR SILANES
NASA-CR-52483 N64-10363 01-07

SYNTHESIS OF TITANIUM NITRIDE FROM PELLETS OF SPONGE TITANIUM N64-11011 02-19

THEORETICAL BASIS FOR SYNTHESIS OF GLASS-CERAMIC MATERIALS FROM METALLURGICAL SLAG
FTD-TT-63-753/1&2 N64-11544 03-19

ORGANIC SYNTHESIS BY GREEN, HIGH TEMPERATURE ALGAE IN VARIOUS DEVELOPMENTAL STAGES
N64-12001 03-16

ANTIHYPERTENSIVE DRUG SYNTHESIS
JPRS-22524 N64-12146 03-16

SYNTHESIS OF CONTROL EQUIPMENT FOR DIGITAL COMPUTERS - CYBERNETICS N64-12453 04-20

SYNTHESIS OF MULTIVARIATE AUTOMATIC SYSTEMS FROM EQUIVALENT INITIAL CONDITIONS AND PRINCIPLE OF INVARIANCE - CYBERNETICS N64-12470 04-20

SYNTHESIS AND EXPERIMENTAL INVESTIGATION OF HYDRAZOIC ACID
RSIC-94 N64-12603 04-07

HYDROLYSIS & SYNTHESIS OF TETRAZINEDICARBOXYLIC ACID AND BENZALHYDRAZINOOXALIC ACID
RSIC-95 N64-12604 04-07

SEMI-OXAMAZIDE PREPARED BY REACTION OF HYDRAZINE &

OXAMIC ACID
RSIC-96 N64-12605 04-07

FREQUENCY & TRANSFER CHARACTERISTICS OF TWO-PORT NETWORK N64-12733 04-09

SYNTHESIS OF ADENOSINE TRIPHOSPHATE UNDER POSSIBLE PRIMITIVE EARTH CONDITIONS
NASA-RP-94 N64-13168 04-16

SYNTHESIS OF ANTIGENS CONTAINING KNOWN SUGARS
AD-430401 N64-16098 07-16

MECHANISM OF ELEMENTARY BIOSYNTHESIS - ENERGY-TRANSFORMING PROCESSES IN NITROBACTER
NASA-CR-55562 N64-16322 08-16

HYDROTHERMAL SYNTHESIS OF OLIVINE-TYPE SILICATES
ERR-FW-221 N64-16630 08-12

SYNTHESIS OF ELASTOMERS CONTAINING BORON
RIA-64-230 N64-16987 09-07

SYNTHESIS OF HIGH TEMPERATURE MATERIALS WITH PLASMA JET USING POWDERED SOLIDS
NRL-1490 N64-17445 09-24

SENSITIVITY AND STABILITY IN ACTIVE NETWORK SYNTHESIS
SURI-EE975-6401FR N64-17507 09-09

INVESTIGATION OF SYNCHRONOUS METEOROLOGICAL SATELLITE SUBSYSTEMS
NASA-CR-55927 N64-17700 09-30

RIBONUCLEIC ACID IN PROTEIN SYNTHESIS
N64-18330 10-16

EFFECT OF RADIATION INJURY OF NUCLEI ON SYNTHESIS OF INFORMATIONAL RIBONUCLEIC ACID IN FISH EMBRYO
JPRS-23944 N64-18334 10-16

SYNTHESIS OF BORON CARBIDE FILAMENTS
NASA-CR-53750 N64-19175 11-19

ELECTROSYNTHESIS OF OZONE - STEADY STATE CONCENTRATIONS AND MECHANISM OF OZONE FORMATION
FTD-TT-62-1536/1&2&4 N64-19191 11-07

SYNTHESIS OF OPTICALLY ACTIVE ALANINE - AMINO ACID
N64-19589 12-07

ION EXCHANGE MEMBRANE SYNTHESIS FOR USE IN STORAGE BATTERIES
NASA-CR-53713 N64-19611 12-06

SYNTHESIS OF ELASTOMERS CONTAINING SILICON-NITROGEN BONDS IN MAIN CHAIN
QPR-8 N64-20145 13-07

SHOCK TUBE SYNTHESIS OF NITROGEN FLUORIDES FOR USE AS OXIDIZERS
S-13913 N64-20328 13-07

IMPERFECTIONS OF 2319 ALUMINUM ALLOY WELD WIRE
NASA-CR-56100 N64-20687 13-18

ZIRCONIUM ABUNDANCES IN METEORITES & IMPLICATIONS TO NUCLEOSYNTHESIS
NASA-CR-56189 N64-20825 14-05

SYNTHESIS AND PROPERTIES OF FLUORIDES AND PLASMA REACTIONS OF FLUOROCARBONS
AD-439596 N64-20855 14-07

SYNTHESIS AND EVALUATION OF HIGH ENERGY POLYMERS
ASD-TDR-62-115 N64-21295 14-26

SYNTHESIS AND THERMAL STABILITY OF COORDINATION POLYMERS
RSIC-175 N64-21458 14-07

SYNTHESIS AND MOLECULAR STRUCTURE OF ZEOLITES
FTD-TT-63-979/1&2 N64-21937 15-07

SYNTHESIS AND PROPERTIES OF FIBROUS SILICON NITRIDE
BM-RI-6467 N64-22101 15-07

SYNTHESIS OF RADIATION PATTERNS OF LINEAR ANTENNA ARRAYS
FTD-TT-62-1141/1&2&3&4 N64-22151 15-09

ELECTROLYTIC PRECIPITATION OF SUBSTANCES AND MIXES FOR SYNTHESIS OF HIGH QUALITY FERRITES
FTD-TT-63-348/1&2&3&4 N64-22349 15-07

HUMAN BODY TEMPERATURE CONTROL AND MECHANISM OF BIOLOGICAL SYNTHESIS OF CHEMICAL COMPOUNDS
NASA-CR-56293 N64-22470 15-14

ELECTROSYNTHESIS OF OZONE FROM OXYGEN AT HIGH PRESSURES
FTD-TT-64-195/1&2&4 N64-22668 15-07

BIOLOGICAL SYNTHESIS OF NUCLEIC ACID CONSTITUENTS
NASA-TM-X-54021 N64-22771 16-16

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS - CATALYSTS AND CATALYTIC ACTIVITY IN INTERMEDIATE SYSTEMS FORMED DURING SYNTHESIS OF LOW MOLECULAR WEIGHT ORGANIC COMPOUNDS
BL-86 N64-22781 16-16

SPECTRUM SIGNATURE SYNTHESIS - SPURIOUS RESPONSES IN SINGLE & DOUBLE CONVERSION RECEIVERS & GAIN CHARACTERISITCS OF HIGH GAIN REFLECTOR ANTENNAS
N64-22838 16-09

SYNTHESIS AND REACTIONS OF SILYL NEOCARBORANES
TR-22 N64-23245 16-07

NUCLEIC ACIDS AND CHLOROPHYLL BIOSYNTHESIS AND ELECTROMYOGRAMS UNDER ACCELERATION STRESSES
FTD-TT-63-1052/1&2 N64-23659 16-16

ROLE OF NUCLEIC ACIDS AND ALBUMIN IN BIOSYNTHESIS OF CHLOROPHYLL N64-23660 16-16

INORGANIC BINARY COMPOUND SYNTHESIS BY EXPLODING WIRE TECHNIQUE N64-24128 16-06

SYNTHESIS OF NONCOMMERCIALLY AVAILABLE ORGANIC COMPOUNDS
AD-439402 N64-25541 17-07

SYNTHESIS OF FLUORINE-CONTAINING COMPOUNDS
AD-602290 N64-25752 17-19

CHEMICAL SYNTHESIS AT CRYOGENIC TEMPERATURES
N64-26325 18-07

PROCESS OPTIMIZATION WHEN SOLVING PROBLEMS OF SYNTHESIS OF DISCRETE AUTOMATA N64-27165 19-20

SYNTHESIS AND ELECTRICAL PROPERTIES OF BENZIMIDAZOLES AND HETEROCYCLIC QUINONOID COMPOUNDS
AFCRL-64-359 N64-27530 19-07

ORGANIC CHEMISTRY AND SYNTHESIS OF BIOCHEMICAL COMPOUNDS FOUND IN UNIVERSE N64-27820 19-07

SYNTHESIS OF ALPHA AMINO ACID METHYL ESTERS
N64-27970 20-07

CONTROL THEORY AND CYBERNETICS - SYNTHESIS OF OPTIMAL LINEAR SYSTEMS AND OF LOGIC NETWORKS
JPRS-25291 N64-28440 20-20

SYNTHESIS OF OPTIMAL LINEAR SYSTEMS
N64-28441 20-20

SYNTHESIS OF LOGIC NETWORKS N64-28442 20-20

SYNTHESIS OF COMPLEXES OF QUATERNARY ARSENIC ATOMS LINKED TO SAME CARBON ATOM
TR-1 N64-28685 20-07

SYNTHESIS OF DIMETHYL-BIS-PERFLUOROPROPYL-SILANE AND STUDY OF PYROLYTIC AND HYDROLYTIC STABILITY
N64-29173 21-07

SYNTHESIS OF RADIOPROTECTIVE STEREOSPECIFIC AMINOTHIOLS
AD-601839 N64-29332 21-07

SYNTHESIS OF STEREOSPECIFIC AMINOTHIOLS AS

RADIOPROTECTIVE AGENTS
AD-601838 N64-29333 21-07

SYNTHESIS OF CRYSTALLINE SOLIDS BY VARYING PROPORTIONS OF ANTIMONY PENTAFLUORIDE AND XENON HEXAFLUORIDE
TR-49 N64-29346 21-07

VEHICLE MASTER OSCILLATOR & FREQUENCY SYNTHESIZER FOR AIRBORNE RANGE & ORBIT DETERMINATION SYSTEM
NASA-CR-58698 N64-29505 21-08

VEHICLE TRACKING TRANSMITTER USED WITH VEHICLE MASTER OSCILLATOR AND FREQUENCY SYNTHESIZER
NASA-CR-58699 N64-29506 21-08

SYNTHESIS OF HIGH TEMPERATURE RESISTANT POLYMERS - CHLORALUMINUM PHTHALOCYANINE
QPR-2 N64-29637 21-07

NONENZYMATIC SYNTHESIS OF NUCLEIC ACID COMPONENTS AND ABIOGENESIS OF NEURINES, PYRIMIDINES, PENTOSRIBOSE AND DEOXYRIBOSE N64-29699 21-16

CONTROL SYSTEM SYNTHESIS USING ALGEBRAIC LOGIC - FUNCTIONAL ELEMENTS, LOGIC CIRCUITS, & SHANNON FUNCTION N64-29735 21-09

ELECTRODE FOR ELECTROCHEMICAL FLUORINATION - SYNTHESIS OF NITROGEN-FLUORINE COMPOUNDS IN ANHYDROUS HYDROGEN FLUORIDE
TRACOR-64-228-U N64-29897 21-07

SYNTHESIS OF ALUMINUM FLUORIDE BY REACTING ALUMINA HYDRATE WITH DILUTE AQUEOUS FLUORIDE SOLUTIONS
BM-RI-6524 N64-29946 21-07

SYNTHETIC REACTIONS FOR PRODUCING ORGANIC SILICON COMPOUNDS
FTD-TT-64-165/1&2 N64-30106 21-07

SYNTHESIS AND POLYMERIZATION OF FLUORINATED SULFUR MODIFIED NITROSO RUBBER
QR-1 N64-30494 22-07

SYNTHESIS OF POLYETHER URETHANE ELASTOMERS & THEIR OIL RESISTANCE AND LOW TEMPERATURE FLEXIBILITY
AD-421811 N64-31249 22-19

SYNTHESIS, FABRICATION, AND CHEMICAL REACTIONS OF PLUTONIUM MONONITRIDE
BMI-1693 N64-31271 22-07

SYNTHESIS OF POLYMERS WITH SPECIAL PROPERTIES
QR-1 N64-31710 23-07

SYNTHESIS OF AUTOMATIC CONTROL SYSTEMS WITH VARIABLE PARAMETERS BY FROZEN WEIGHTING FUNCTION N64-31857 23-09

SYNTHESIS OF ORGANOMETALLIC COMPOUNDS OF TRANSITION ELEMENTS
AD-449203 N64-32453 23-07

SYNTHESIS AND CHEMICAL REACTIONS OF NEW FLUORINE CONTAINING COMPOUNDS
AD-449477 N64-32861 24-07

POSSIBLE SYNTHESIS OF ARTIFICIAL FOODS FROM ALGAE
NASA-TT-F-9146 N64-33407 24-16

SYNTHESIS OF THERMALLY AND HYDROLYTICALLY STABLE ELASTOMERS CONTAINING SILICON-NITROGEN BONDS IN MAIN CHAIN
QPR-10 N64-33420 24-07

UNIFORM MAGNETIC FIELD SYNTHESIS ALONG AXIS OF COAXIAL COIL & SOLENOID SYSTEM
GSP/PHYS-64-10 N64-33884 24-23

SYNTHETIC ARRAY
ROLE OF SIZE AND RESOLUTION OF DESIRED MAP IN RECORDING REQUIREMENT OF SYNTHETIC ARRAY DATA
SSD-TDR-63-224 N64-12271 03-15

SYNTHETIC RESIN
S PHENOL RESIN
S PLASTIC
S POLYCARBONATE
S POLYESTER
S POLYETHYLENE
S POLYMETHYL METHACRYLATE
S POLYPROPYLENE
S POLYSTYRENE
S POLYURETHANE
S POLYVINYL ALCOHOL
S POLYVINYL CHLORIDE
S TEFLON

SYSTEM
S ADAPTIVE CONTROL SYSTEM
S AEROSPACE SYSTEM
S AIRCRAFT HYDRAULIC SYSTEM
S CARDIOVASCULAR SYSTEM
S CARRIER SYSTEM
S CIRCULATORY SYSTEM
S CLOSED LOOP SYSTEM
S CODING SYSTEM
S COMMUNICATION SYSTEM
S CONJUGATED SYSTEM
S CONTINUOUS FLOW SYSTEM
S COOLING SYSTEM
S COORDINATE SYSTEM
S DATA READOUT SYSTEM
S DISPLAY SYSTEM
S EARTH MOON SYSTEM
S ECOLOGICAL SYSTEM
S ELASTIC SYSTEM
S FEED SYSTEM
S HOT GAS SYSTEM
S HYPERBOLIC SYSTEM
S IGNITION SYSTEM
S INDUCTION SYSTEM
S LINEAR SYSTEM
S LUBRICATION SYSTEM
S MAN-MACHINE SYSTEM
S MECHANICAL SYSTEM
S MISSILE SYSTEM
S NAVIGATION SYSTEM
S NERVOUS SYSTEM
S PROPULSION SYSTEM
S RADAR SYSTEM
S RECEIVING SYSTEM
S REDUNDANT SYSTEM
S REPRODUCTIVE SYSTEM
S RESPIRATORY SYSTEM
S SELF-ADAPTIVE SYSTEM
S SELF-REPAIRING SYSTEM
S SOLAR SYSTEM
S SUPPORT SYSTEM
S SYNOPTIC SYSTEM
S THERMIONIC CONVERSION SYSTEM
S TRAJECTORY MEASURING SYSTEM
S TWO PHASE SYSTEM

SYSTEM FOR NUCLEAR AUXILIARY POWER /SNAP/ PROGRAM
DESIGN & SAFETY OPTIMIZATION OF HYDRIDE FUEL SNAP REACTORS N64-14558 06-06

SNAP REACTOR TRANSIENT TESTS FOR NUCLEAR RADIATION SAFETY N64-14559 06-06

NUCLEAR RADIATION SAFETY OF ISOTOPIC SNAP GENERATORS N64-14561 06-06

SNAP PROGRAM - SPACE APPLICATIONS
TID-20103 N64-17533 09-06

RADIOISOTOPE GENERATORS IN SYSTEMS FOR NUCLEAR AUXILIARY POWER - SNAP
TID-20079 N64-18414 10-06

DYNAMIC ZERO LEAKAGE SEAL, WATER SEAL, AND LIQUID METAL SEAL TECHNOLOGY FOR SNAP-8 GENERATOR SYSTEM
AD-432064 N64-21990 15-18

STUDY OF SNAP POWER SYSTEMS IN LUNAR ENVIRONMENT
AI-8576 N64-22002 15-27

SNAP REACTOR POWER SYSTEMS - APPLICATION TO MANNED SPACE STATIONS
NAA-SR-9715 N64-22949 16-27

SYSTEM FOR NUCLEAR AUXILIARY POWER /SNAP/ PROGRAM FUELS USING ZIRCONIUM AND URANIUM SYSTEMS - BIBLIOGRAPHY
NAA-SR-9525, VOL. I N64-25866 18-18

UNCONTROLLED POWER TRANSIENTS IN SYSTEM FOR NUCLEAR AUXILIARY POWER /SNAP/ REACTORS
NAA-SR-9368 N64-26484 18-23

SPECTROGRAPHS, PHOTOMETERS, AND EVENT CAMERAS FOR SNAP REENTRY STUDIES
SC-RR-64-968 N64-27038 19-15

SYSTEM FOR NUCLEAR AUXILIARY POWER AND RELATED NUCLEAR POWERED GENERATORS
UC-33 N64-27408 19-06

OPERATING CHARACTERISTICS OF MERCURY CONDENSERS FOR SPACE APPLICATION - SYSTEM FOR NUCLEAR AUXILIARY POWER
NAA-SR-9801 N64-28054 20-06

CONTROL OF GAS PRESSURE BUILDUP IN THERMOELECTRIC SNAP GENERATORS
NMD-3143-1 N64-32932 24-06

SYSTEM FOR NUCLEAR AUXILIARY POWER- 2 /SNAP-2/
SNAP 2 POWER SYSTEM - TWO-PHASE FLIGHT PACKAGE SPEED CONTROL
ER-5908 N64-21855 15-06

STRUCTURAL DESIGN CRITERIA, SYSTEM BASIC LOADS, AND STRESS AND VIBRATION ANALYSIS OF SYSTEM FOR NUCLEAR AUXILIARY POWER-2 /SNAP-2/ UNIT
NAA-SR-9054 N64-26519 18-34

RADIATION FLUXES IN SNAP-10A/AGENA-D AND SNAP-2/ AGENA FLIGHT TEST VEHICLE
FZK-177 N64-30062 21-06

VARIATIONS OF NEUTRON FLUX LEVEL AND GAMMA RADIATION DOSE BETWEEN AXIS AND SKIN OF AGENA D WITH SNAP-10 A AND SNAP-2 POWER SYSTEMS
QPR-3 N64-30539 22-06

SYSTEM FOR NUCLEAR AUXILIARY POWER- 7B /SNAP-7B/
STRONTIUM TITANATE RADIOISOTOPE HEAT SOURCE FOR SNAP-7B THERMOELECTRIC GENERATOR
NMD-P-2977 N64-12390 03-06

SYSTEM FOR NUCLEAR AUXILIARY POWER- 8 /SNAP-8/
SNAP 8 REACTOR CORE TRANSIENT HEAT TRANSFER MODEL
NAA-SR-7938 N64-16861 08-06

SNAP-8 MATERIALS SCREENING PROGRAM
NASA-RP-148 N64-17566 09-18

PERFORMANCE POTENTIAL OF ELECTRIC PROPULSION SYSTEMS USING SNAP-8 & SNAP-50 POWER SUPPLIES FOR SPACE MISSIONS
NASA-CR-53472 N64-18173 10-27

CORROSION OF BERYLLIUM BY HIGH TEMPERATURE AIR - SYSTEM FOR NUCLEAR AUXILIARY POWER-8 /SNAP-8/ GROUND TEST
NAA-SR-9672 N64-26799 18-18

PROTOTYPE ALTERNATORS FOR SYSTEM FOR NUCLEAR AUXILIARY POWER /SNAP-8/ ELECTRIC GENERATOR SYSTEM
ER-5301 N64-28291 20-06

AUXILIARY POWER GENERATING SYSTEM FOR LARGE SPACE LABORATORY - SOLAR DYNAMIC SYSTEMS, SOLAR CELLS AND BATTERIES, AND SYSTEM FOR NUCLEAR AUXILIARY POWER-8 /SNAP-8/
AIAA PAPER-64-719 N64-28373 20-06

NUCLEAR ELECTRIC POWER APPLIED TO MANNED ORBITAL SPACE STATION - SNAP-8 EVALUATION AND GROWTH POTENTIAL
NASA-CR-54160 N64-29727 21-06

SYSTEM FOR NUCLEAR AUXILIARY POWER-10A /SNAP-10A/
DIGITAL PROGRAM FOR EVALUATION OF THERMAL, KINETIC, AND HYDROGEN DIFFUSION RESPONSES IN CORE OF SNAP 2/10A REACTOR
NAA-SR-84.4 N64-21790 15-23

STRUCTURAL TESTS AND STRESS ANALYSES OF SYSTEM FOR NUCLEAR AUXILIARY POWER-10A /SNAP-10A/
NAA-SR-9655 N64-25977 18-34

THERMAL TESTING OF NONNUCLEAR SYSTEM PROTOTYPE OF SNAP 10A - SYSTEM FOR NUCLEAR AUXILIARY POWER
NAA-SR-9280 N64-26522 18-06

FISSION PRODUCT RELEASE FROM SYSTEM FOR NUCLEAR AUXILIARY POWER 10A/2 /SNAP-10A/ URANIUM-ZIRCONIUM HYDRIDE FUEL
NAA-SR-9673 N64-26691 18-23

STRUCTURAL TESTS ON SYSTEM FOR NUCLEAR AUXILIARY POWER-10A /SNAP-10A/ PROTOTYPE
NAA-SR-9820 N64-26796 18-06

SYSTEM FOR NUCLEAR AUXILIARY POWER 10A /SNAP-10A/ ENVIRONMENTAL TESTING RESULTS
NAA-SR-8399 N64-26833 18-06

REENTRY HEATING AND MODE OF DISINTEGRATION OF MODEL SNAP 10A REACTOR LAUNCHED INTO SUBORBITAL TRAJECTORY
NAA-SR-9479 N64-27139 19-06

SYSTEM FOR NUCLEAR AUXILIARY POWER-10A /SNAP-10A/ DURING ORBITAL REENTRY - DETERMINATION OF REACTOR COMPONENT ABLATION
NAA-SR-9723 N64-27330 19-06

STRUCTURAL ANALYSIS AND TESTS OF SNAP 10A REACTOR
NAA-SR-9899 N64-27422 19-06

VARIATIONS OF NEUTRON FLUX LEVEL AND GAMMA RADIATION DOSE BETWEEN AXIS AND SKIN OF AGENA D WITH SNAP-10 A AND SNAP-2 POWER SYSTEMS
QPR-3 N64-30539 22-06

REENTRY FLIGHT DEMONSTRATION OF SYSTEM FOR NUCLEAR AUXILIARY POWER-10A - DISASSEMBLY, PREFLIGHT AND POSTFLIGHT TEST ANALYSIS
SC-RR-64-515 N64-33746 24-06

SYSTEM FOR NUCLEAR AUXILIARY POWER-50 /SNAP-50/
PERFORMANCE POTENTIAL OF ELECTRIC PROPULSION SYSTEMS USING SNAP-8 & SNAP-50 POWER SUPPLIES FOR SPACE MISSIONS
NASA-CR-53472 N64-18173 10-27

SYSTEM FOR NUCLEAR AUXILIARY POWER-50 /SNAP-50/ AND SPACE POWER UNIT REACTOR /SPUR/ NUCLEAR MECHANICAL POWER UNIT PROGRAM
APS-5090-R1 N64-23875 16-27

COMPUTER PROGRAM FOR ANALYSIS OF SYSTEM FOR NUCLEAR AUXILIARY POWER-50 /SNAP-50/ SPACE POWER UNIT REACTOR /SPUR/ BOILER
L-9390 N64-32680 Z3-13

UNMANNED ELECTRICAL PROPULSION MISSIONS OF SYSTEM FOR NUCLEAR AUXILIARY POWER-50 /SNAP-50/ SPACE POWER UNIT REACTOR /SPUR/ POWER PLANT
PWAC-447 N64-33074 24-27

EFFECTS OF POTASSIUM VAPOR ON CREEP-RUPTURE PROPERTIES OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOYS FOR SNAP 50/SPACE POWER UNIT REACTOR /SPUR/ PROGRAM
APS-5092-R N64-33532 24-18

SYSTEM STABILITY
QUALITATIVE THEORY OF DIFFERENTIAL EQUATIONS - SYSTEM STABILITY N64-16211 08-20

STABILITY IN NONLINEAR CONTROL SYSTEMS WITH ONE OR TWO REGULATORS
FTD-TT-63-399/1&2 N64-16419 08-06

SYSTEMS ANALYSIS
THEORY AND APPLICATION OF DISCRETE AUTOMATIC SYSTEMS N64-11616 03-20

MULTI-OPERATION SYSTEMS AND TERMINAL AUTOMATONS
CYBERNETICS N64-12455 04-20

AUTOMATION OF CONTROL PROCESSES FOR LARGE COMPLICATED SYSTEMS - CYBERNETICS N64-12456 04-06

OPERATIONAL AND SYSTEM ANALYSIS OF VARIOUS V/STOL AIRCRAFT N64-13500 04-04

PROCEEDINGS OF OPERATIONS RESEARCH SYMPOSIUM

AD-424634 N64-15800 07-10

POLARIZATION SYSTEMS ANALYSIS
RADC-TDR-63-396, VOL. 2 N64-15818 07-08

SIMULATION METHODS IN SYSTEMS ANALYSIS AS TOOL IN MANAGEMENT PLANNING
TM-765/000/00 N64-19087 11-10

ALGORITHM FOR SOLVING PROBLEM OF MAXIMIZING SYSTEM RELIABILITY UNDER MULTIPLE LINEAR CONSTRAINTS
D1-82-0253 N64-19092 11-20

MATHEMATICAL MODELING AND DIGITAL SIMULATION FOR SYSTEMS ANALYSIS IN OPERATIONS RESEARCH
RADC-TDC-63-407 N64-19115 11-20

COMPARISON OF OPTIMIZATION TECHNIQUES AS APPLIED TO SYSTEM ANALYSIS OF SINGLE AXIS SATELLITE ATTITUDE CONTROL
FDL-TDR-64-21 N64-19655 12-30

LAND TRANSPORTATION SYSTEMS ANALYSIS - DERIVATION OF EQUATIONS OF MOTION FOR VEHICLE-PROPULSION SYSTEM COMBINATIONS
RM-3966-RC N64-20410 13-10

SPACE PROGRAM SUMMARY - SYSTEMS, GUIDANCE AND CONTROL, ENGINEERING, PROPULSION, SPACE SCIENCES, AND TELECOMMUNICATIONS RESEARCH
NASA-CR-56175 N64-20816 14-01

AUTOSATE - AUTOMATIC DATA SYSTEMS ANALYSIS TECHNIQUE
P-2646-1 N64-21479 14-20

QUASI-LINEARIZATION, SYSTEM IDENTIFICATION, AND PREDICTION
RM-3812-PR N64-22613 15-20

VOLTERRA DYNAMIC EQUATION APPLICATION TO NON-HOLONOMIC SYSTEMS N64-23559 16-23

STABILITY OF SYSTEMS OF EXTREMAL REGULATION WITH CONSTANT SEARCH SPEED N64-23802 16-09

USE OF RADAR CROSS SECTION DATA IN MILITARY SYSTEMS ANALYSIS N64-24721 17-08

SYSTEMS ANALYSIS AND TRAINING METHODS FOR MAINTENANCE OF ELECTRONIC WEAPON SYSTEM
RR-13 N64-25800 17-09

SYSTEMS ANALYSIS, MECHANICS, GUIDANCE AND CONTROL, PROPULSION, AND COMMUNICATION SYSTEM STUDIES
NASA-CR-58131 N64-26369 18-29

ALGEBRAIC OPERATION ON UNITS IN COMPLEX SYSTEMS N64-26377 18-20

RELIABILITY AND MALFUNCTION DETECTION IN SYSTEMS CONTAINING OPERATING AND STANDBY MODULES
NASA-TT-F-9007 N64-27366 19-20

COVARIANCE MATRIX FOR SYSTEM PERFORMANCE EVALUATION
SSD-TDR-64-143 N64-27472 19-20

SIMULATION AND CONTROL OF PHYSICAL AND CHEMICAL SYSTEMS
JPRS-26028 N64-28346 20-09

DIAGNOSING SYSTEMS BY CONSTRUCTING SCALE MODELS USING MULTIPARAMETER OPTIMIZATION N64-28348 20-09

ORGANIZATION MODELS FOR MILITARY COMMAND POST INFORMATION SYSTEMS
ESD-TDR-64-438 N64-28572 20-10

BRAYTON CYCLE SPACE POWER SYSTEMS ANALYSIS
NASA-TN-D-2487 N64-30101 21-06

FAULT ISOLATION PRESENTATION
AMRL-TDR-64-57 N64-31944 23-14

PERFORMANCE MEASUREMENTS IN FLIGHT SIMULATION
NASA-CR-59063 N64-32491 23-10

SYSTEM FUNCTIONS IN REPRESENTATION AND ANALYSIS OF LINEAR DIFFERENTIAL SYSTEMS
TR-64-4 N64-32976 24-09

SPACE PROGRAM - SYSTEMS ANALYSIS, GUIDANCE AND CONTROL, ENGINEERING FACILITIES, PROPULSION, AND COMMUNICATIONS
NASA-CR-58944 N64-32992 24-10

MISSION ANALYSIS FOR SOLAR HEATED HYDROGEN PROPULSION SYSTEM - SYSTEM WEIGHT ANALYSIS
NASA-CR-59332 N64-33809 24-27

LIAPUNOV FUNCTIONS FOR ANALYSIS AND DESIGN OF NONLINEAR & ADAPTIVE CONTROL SYSTEMS
RTD-TDR-63-4076 N64-33915 24-09

SYSTEMS DESIGN
RELIABILITY THEORY - MACHINE AND SYSTEMS OPTIMIZATION APPLICATION
JPRS-21923 N64-10353 01-17

SELF-ORGANIZING SYSTEMS AND PRINCIPLES OF THEIR DESIGN - OPEN CONTROL BY PERTURBATIONS AND FEEDBACK ACCORDING TO OUTPUT CHARACTERISTICS N64-11530 03-09

AUTOMATED VERSION OF AS-11A ANALYTICAL STEREOPLOTTER - SYSTEM DESIGN AND ANALYSIS
RADC-TDR-63-539 N64-16972 09-13

SYNCHRONOUS METEOROLOGICAL SATELLITE STUDY - OBJECTIVES, CONCLUSIONS, AND SUMMARIES OF SYSTEM & SUBSYSTEM STUDIES
NASA-CR-55926 N64-17695 09-30

DESIGN, COMPATIBILITY, AND SYSTEM INTEGRATION OF REACTION CONTROL SYSTEM CONFIGURATION OF X-15A AIRCRAFT
NASA-TM-X-56002 N64-20683 13-04

ANNOTATED BIBLIOGRAPHY ON DIGITAL COMPUTER METHODS OF ELECTRICAL AND ELECTRONIC SYSTEMS DESIGN
SB-63-65 N64-20895 14-09

ANTENNA SYSTEMS DESIGN FOR MICROWAVE POWER TRANSMISSION N64-21016 14-09

SURFACE AND ATOMIC PHYSICS, COMPUTER DESIGNS, PLASMA PHYSICS, SYSTEM DESIGNS, MAGNETIC SUPERCONDUCTORS, VOLTAGE BREAKDOWN, AND THIN FILMS RESEARCH
AD-438840 N64-25885 18-01

DATA ACQUISITION FOR CRYOGENIC SYSTEMS - COMPILATION OF THERMODYNAMIC PROPERTY AS EXAMPLE N64-26015 18-13

SYSTEMS DESIGN AND MISSION PLANNING FOR SURVEYOR SOFT LANDING PROJECT
NASA-CR-58247 N64-28969 20-32

METHODS OF INFORMATION SYSTEM DESIGN
RADC-TDR-63-486 N64-30471 22-20

COMPUTER PROGRAMS FOR SYSTEMS DESIGN, FILE ORGANIZATION, DOCUMENT ACTIVITY SIMULATION, AND WORD ASSOCIATION FOR INFORMATION RETRIEVAL
RADC-TDR-63-486, APPEND. N64-30553 22-20

VEHICLE SYSTEMS OPERATIONAL TEST OF STATIC ORBITAL FUEL CELL AND DESIGN OF PROTOTYPE FUEL CELL POWER SYSTEM BASED ON MULTICELL MODULE
QTPR-3 N64-32197 23-04

POWER ELEMENTS & SYSTEM DESIGN OF SERVOMECHANISMS FOR AUTOMATIC CONTROL SYSTEMS
AMCP-706-139 N64-33128 24-09

LANGUAGE AND ALGORITHM FOR ABSTRACT SYNTHESIS OF SEQUENTIAL MACHINE - SYSTEMS DESIGN
NASA-TT-F-260 N64-33481 24-20

ERROR CONTROL SYSTEMS DESIGN
RADC-TDR-64-149, VOL. VI N64-33542 24-08

SYSTEM DESIGN OF NUCLEAR ROCKET
NASA-CR-52948 N64-33784 24-27

T

T TAIL SURFACE
WIND-TUNNEL FLUTTER STUDIES OF SWEPTBACK T-TAIL FOR LARGE MULTIJET CARGO AIRCRAFT AT MACH NUMBERS TO 0.90
NASA-TN-D-2179 N64-17725 09-04

T-33 AIRCRAFT
VARIABLE-DRAG DEVICE ON VARIABLE STABILITY T-33 AIRCRAFT - DEVELOPMENT AND FLIGHT CALIBRATION
CAL-TE-1462-F-3 N64-13627 05-04

HARMONIC ANALYSIS OF HUMAN PERFORMANCE OF TRACKING IN T-33 AIRCRAFT, IN CENTRIFUGE SIMULATION, AND IN STATIONARY SIMULATION
NADC-AC-6406 N64-28696 20-14

TAB EFFECT
TRANSONIC WIND TUNNEL TESTS TO DETERMINE NOSE CONE AND FIN TAB EFFECT ON ZERO LIFT DRAG OF PRACTICE BOMB
DTMB-AERO-1078 N64-32040 23-02

TABLE
SA MATHEMATICAL TABLE
IDEAL-GAS TABLES FOR OBLIQUE-SHOCK FLOW PARAMETERS IN AIR AT MACH NUMBERS FROM 1.05 TO 12.0
NASA-TN-D-2221 N64-17160 09-11

DECIMAL TO OCTAL CONVERSION TABLE
NASA-TM-X-55030 N64-25069 17-20

ADVANCED COMPONENT AND SYSTEM TEST TABLE AND ASSOCIATED ELECTRONICS
MPR-30 N64-25171 17-15

TABULATION OF OPTICAL PATH DATA FOR FOLLOWING RAY THROUGH EARTH ATMOSPHERE - DIOPTRIC TABLES
NAVWEPS-8504 N64-29306 21-12

PHYSICAL CONSTANTS AND CONVERSION FACTORS FOR INTERNATIONAL SYSTEM OF UNITS
NASA-SP-7012 N64-30087 21-23

TABLES OF BINARY DECOMPOSITIONS OF EVEN NUMBERS INTO PRIME AND LUCKY NUMBERS - BINARY ADDITIVE NUMBER THEORY
LA-3106, VOL. 1 N64-32863 24-20

TABLES FOR EXPERIMENTAL STATISTICS
ANCP-706-114 N64-33127 24-20

TACHOMETER
ELECTRICAL PRESSURE PICKUP USED IN TACHOMETER TO MEASURE GYROSCOPIC SPEED AND ACCELERATION CHANGES
N64-13572 05-15

IMPROVING LINEARITY OF GYROSCOPIC TACHOMETERS AND TACHOACCELEROMETERS N64-24545 17-15

PRECISION ALTERNATING CURRENT DRAG CUP TACHOMETERS - PHASE SHIFT AND LINEARITY
N64-31485 23-15

TACTILE SENSATION
THEORETICAL ANALYSIS OF STRUCTURE OF TACTILE SENSATION USING CYBERNETICAL CONCEPTS
JPRS-19565 N64-10658 01-16

ENGINEERING PSYCHOLOGY - INVESTIGATION OF TACTILE SENSATION, GRAPHIC ACTIVITY, & SPATIAL PERCEPTION OF MAN-MACHINE SYSTEMS
JPRS-22300 N64-11872 03-14

ELECTROSLEEP INFLUENCE ON THERMOREGULATION REFLEX AND ELECTRIC RESISTANCE OF SKIN IN PATIENTS WITH PRURITIC DERMATOSIS
RSIC-105 N64-13812 05-16

DERMO-OPTICAL SENSE IN MAN
JPRS-23068 N64-14542 06-16

PSYCHOPHYSICAL EXPERIMENTS ON TACTILE STIMULATION BY SMALL AIR JETS TO DETERMINE PARAMETERS FOR DESIGN OF TACTILE COMMUNICATION DEVICE
ASD-TDR-63-732 N64-14689 06-16

SKIN VISION - TACTILE, VIBRATIONAL, THERMAL, AND COLOR SENSITIVITY OF SKIN OF FINGERS
N64-32778 24-16

UNCONVENTIONAL TRANSDUCTION OF SPEECH TO TACTILE SENSATION BY TACTIPHON SIGNAL GENERATOR
AL-TDR-64-243 N64-33533 24-08

TAIL
CF AIRFRAME
AFTERBODY PRESSURES ON TWO-DIMENSIONAL BOATTAILED BODIES HAVING TURBULENT BOUNDARY LAYERS
NASA-TN-D-2350 N64-25604 17-03

FLIGHT CHARACTERISTICS OF BOMB WITH CRUCIFORM TAIL
WRE-TN-SAD-102 N64-28732 20-07

MAGNETOSPHERE TAIL MEASUREMENTS - TANGENTIAL BOUNDARY STRESSES
NASA-CR-58845 N64-33183 24-28

TAIL PLANE
LOADING FORMULAS FOR TAILED AIRPLANE IN PULLOUT MANEUVERS
ARC-R&M-3327 N64-13355 04-04

COMPUTATION OF SHEARING STRESSES AND STRAINS FOR FUSELAGE, WINGS, AND TAIL PLANES
N64-21697 15-33

TAKEOFF
CF LANDING
RUNWAY ROLLING COEFFICIENT OF FRICTION FOR PREDICTION OF TAKEOFF RUNS
AGARD-418 N64-13877 05-10

MONITORING AIRCRAFT TAKEOFF GROUND RUN PERFORMANCE BY DIGITAL COMPUTER PREDICTOR
AGARD-422 N64-13879 05-04

EFFECT OF SLUSH IN LENGTHENING TAKEOFF RUNS OF AIRCRAFT
TIL/T-5428 N64-14739 06-10

TAKEOFF PERFORMANCE OF SUPERSONIC TRANSPORT CONFIGURATIONS
NASA-TN-D-2308 N64-23024 16-04

COMPUTATION OF TAKEOFF TRAJECTORIES FOR COMBATING JET NOISE USING SONIC BOOM CALCULATIONS
ONERA-TP-119 N64-23500 16-04

STOL AIRCRAFT TAKEOFF DISTANCE PREDICTION
R-5-64-17 N64-30828 22-04

TAKEOFF AND LANDING
TAKEOFF & LANDING CHARACTERISTICS OF TRANSPORT AIRCRAFT
AGARD-417 N64-11806 03-04

PILOTED FLIGHT SIMULATORS FOR TAKEOFF AND LANDING RESEARCH
AGARD-430 N64-11910 03-10

DESIGN PROBLEMS OF TAKEOFF & LANDING OF HIGH-SPEED AIRCRAFT
AGARD-413 N64-13151 04-04

SIMULATOR ASSESSMENTS OF TAKEOFF AND LANDING IN AIRCRAFT DESIGN
AGARD-432 N64-13884 05-10

TAKEOFF AND LANDING FACILITY EVALUATION
FTFF-TM-58-12 N64-14467 06-10

MOVEMENT AND STRENGTH TESTS OF WING TRAILING VORTICES OF DOUGLAS DC-8 JET TRANSPORT AIRCRAFT DURING TAKEOFF AND LANDING
RD-64-3 N64-14797 06-04

APPROACH, LANDING, AND TAKEOFF INTERVALS AS DICTATED BY WAKES, VORTICES, AND WEATHER PHENOMENA
RD-64-4 N64-19020 11-10

AIRLINE PILOT EYE MOVEMENTS DURING TAKEOFF AND LANDING IN VISUAL METEOROLOGICAL CONDITIONS
ARL/ME-15 N64-22133 15-16

TAKEOFF SYSTEM
S CATAPULT

TALC
SA MAGNESIUM COMPOUND
TENSILE STRENGTH IMPROVEMENT OF SILICONE RUBBER BY USING CERTAIN FIBROUS TALCS
QPR-3 N64-14471 06-13

TALOS MISSILE
TRANSIENT RESPONSE OF TALOS AIRFRAME WHEN SUBJECTED TO UNDERWATER EXPLOSION - MATHEMATICAL MODEL N64-18546 11-30

TANDEM
TANDEM FLIGHT OF VOSTOK V AND VI SPACECRAFT
JPRS-21613 N64-10068 01-16

TANK
SA FUEL TANK
SA PROPELLANT TANK
CF CONTAINER
OIL ADDITIVES AS CORROSION INHIBITORS FOR INSIDE SURFACE PROTECTION OF OIL TANKS
JPRS-17719 N64-10631 01-07

ANTICORROSION COATINGS FOR PETROLEUM STORAGE TANKS
JPRS-17742 N64-10716 02-26

VENTILATION STATE AND CAVITY FORMATION BEHIND SURFACE-PIERCING ROD IN FREE SURFACE WATER TUNNEL AND TOWING TANK
E-110.1 N64-18582 11-11

SIMULATED SPACE ENVIRONMENTAL TESTING OF TANKAGE SYSTEMS FOR LONG TERM PROPELLANT STORAGE IN SPACE
RPL-TDR-64-56 N64-19669 12-10

LEAKAGE OF NITROGEN TETROXIDE OXIDIZER FROM MISSILE TANKS DUE TO CORROSION CRACKS
ME-531 N64-21815 15-26

CRYOGENIC FUEL STORAGE AND DISTRIBUTION SYSTEM - EXPERIMENTAL STUDY OF 50 GALLON LIGHTWEIGHT VESSEL
APCI-541301 N64-27519 19-06

OBSERVATIONS DURING WEIGHTLESSNESS SIMULATION WITH SUBJECT IMMERSED IN ROTATING WATER TANK
NASA-TN-D-2195 N64-30094 21-14

SATURN V LAUNCH VEHICLE HIGH PRESSURE LIQUID HELIUM STORAGE BOTTLE
NASA-CR-58784 N64-30517 22-10

BREATHING VIBRATIONS OF PRESSURIZED PARTIALLY FILLED TANKS
NASA-CR-58943 N64-33192 24-33

QUALITATIVE ANALYSIS OF BUBBLE BEHAVIOR IN VERTICALLY VIBRATING LIQUID TANK
NASA-CR-59234 N64-33511 24-11

TANTALUM
ABSORPTION OF NITROGEN, HYDROGEN, AND CARBON GASES BY NIOBIUM TANTALUM
FTD-TT-62-1764/1&2 N64-12313 03-23

TANTALUM CRYSTAL SURFACE STRUCTURE AS FUNCTION OF HEAT TREATMENT AND ION BOMBARDMENT
NASA-CR-52930 N64-12398 03-23

PARALLEL PLANE CESIUM THERMIONIC CONVERTER WITH OXYGEN-TREATED TANTALUM EMITTER & MOLYBDENUM COLLECTOR
QPR-3 N64-13590 05-09

STRUCTURAL ENGINEERING PROPERTIES OF TANTALUM AND TANTALUM ALLOY
DMIC-189 N64-13832 05-18

ATOMIZATION OF STAINLESS STEEL AND TANTALUM BY IONS OF DEUTERIUM AND KRYPTON
FTD-MT-63-6/1&2&3&4 N64-14373 06-23

DIFFUSION COEFFICIENT OF TANTALUM IN SINGLE CRYSTAL GERMANIUM
FTD-MT-63-107 N64-14386 06-25

CHANGE OF ELECTRON WORK FUNCTION DURING COLD WORKING OF MOLYBDENUM & TANTALUM AND HIGH TEMPERATURE DEFORMATION OF REFRACTORY METALS
JPRS-23121 N64-14878 06-17

TRILAURYLAMINE EXTRACTION - SPECTROGRAPHIC DETERMINATION OF TANTALUM IN PLUTONIUM
HW-79738 N64-15835 07-07

REDUCTION OF OXYGEN IN TANTALUM BY REACTIVE METALS
LAMS-3022 N64-15911 07-17

SOLID ELECTROLYTE TANTALUM FOIL CAPACITOR
AD-428360 N64-16512 08-09

LB-2 DIFFUSION COATING OF TANTALUM
A476 N64-17134 09-17

NIOBIUM AND TANTALUM AND THEIR ALLOYS - PROCESS DEVELOPMENT N64-17215 09-18

DIFFUSION OF SILICON IN TITANIUM, TANTALUM, IRON, AND MOLYBDENUM
FTD-MT-63-39/1&2 N64-18669 11-25

ATTRITION OF TANTALUM FILAMENTS OPERATING WITH ELECTRON-BOMBARDMENT ION SOURCES USING MERCURY PROPELLANT
NASA-TN-D-2173 N64-19483 12-27

FABRICATION OF SOLID ELECTROLYTE /MANGANESE OXIDE/ TANTALUM FOIL CAPACITOR
AD-436726 N64-20138 13-09

DIFFUSION FAILURE MODES IN STRESSED TANTALUM AND TANTALUM OXIDE THIN FILM CAPACITORS N64-20973 14-25

FAILURE MECHANISMS AT INSULATOR-CONDUCTOR JUNCTION OF ANODIZED TANTALUM AND CERAMIC BARIUM TITANATE CAPACITORS N64-20976 14-09

FAILURE MODES IN SOLID TANTALUM CAPACITORS N64-20996 14-09

HERMETICALLY SEALED TANTALUM FOIL ELECTROLYTIC CAPACITORS FOR OPERATION IN SPACE ENVIRONMENT
AD-430355 N64-21325 14-09

PRODUCTION ENGINEERING MEASURE FOR IMPROVED RELIABILITY OF SOLID ELECTROLYTE TANTALUM CAPACITATORS
QR-2 N64-22210 15-09

DIFFUSION IN BODY-CENTERED CUBIC METALS - ZIRCONIUM, VANADIUM, NIOBIUM AND TANTALUM
ORNL-3617 N64-22948 16-18

SOLID ELECTROLYTE TANTALUM CAPACITORS AND HEAT TREATMENT EFFECTS ON THIN OXIDE FILMS
QR-1 N64-24076 16-09

PRODUCTION ENGINEERING MEASURE FOR IMPROVED RELIABILITY OF SOLID TANTALUM CAPACITORS
PR-2 N64-25497 17-09

TANTALUM OXIDATION DURING SIMULATED REENTRY
SC-RR-64-575 N64-25609 17-13

X-RAY SPECTROGRAPHIC ANALYSIS FOR TRACE AMOUNTS OF TANTALUM IN NIOBIUM
BM-RI-6483 N64-26515 18-07

SPECTOPHOTOMETRIC METHODS FOR TANTALUM AND NIOBIUM IDENTIFICATION
FTD-TT-64-370/1&2&4 N64-26720 18-07

SCIENCE AND TECHNOLOGY OF TUNGSTEN, TANTALUM, MOLYBDENUM, NIOBIUM, AND THEIR ALLOYS - REFRACTORY ALLOY CONFERENCE
AGARDOGRAPH-82 N64-27576 19-18

STRENGTH AND HARDNESS OF REFRACTORY ALLOYS OF NIOBIUM, TANTALUM, MOLYBDENUM, AND TUNGSTEN METALS N64-27578 19-18

THERMOPHYSICAL PROPERTIES OF TUNGSTEN, NIOBIUM, MOLYBDENUM, AND TANTALUM - REFRACTORY ELEMENTS N64-27585 19-18

OXIDATION BEHAVIOR OF MOLYBDENUM, TUNGSTEN, NIOBIUM, AND TANTALUM IN GASEOUS ATMOSPHERES OF OXYGEN-NITROGEN, CARBON MONOXIDE-CARBON DIOXIDE, AND HYDROGEN-WATER MIXTURES N64-27588 19-18

FABRICATION TESTS OF MOLYBDENUM, NIOBIUM, TUNGSTEN, TANTALUM - REFRACTORY ALLOYS N64-27593 19-18

PRODUCTION ENGINEERING MEASURE FOR IMPROVED RELIABILITY OF SOLID TANTALUM ELECTROLYTIC CAPACITORS
AD-425246 N64-27725 19-09

PRODUCTION ENGINEERING MEASURE FOR IMPROVED RELIABILITY OF SOLID TANTALUM ELECTROLYTIC CAPACITORS
QPR-3 N64-27726 19-17

TANTALUM USED AS CARBON DIFFUSION BARRIER BETWEEN TUNGSTEN AND GRAPHITE
NRE-TN-CPD-54 N64-28061 20-18

ANNEALING OF ETCHED TANTALUM FOIL AND OPTIMUM ELECTROLYTE COMPOSITION FOR SOLID ELECTROLYTE TANTALUM FOIL CAPACITOR
AD-603305 N64-28607 20-09

HAFNIUM-TANTALUM EQUILIBRIUM DIAGRAM OBTAINED BY OPTICAL PYROMETRY, METALLOGRAPHY, DIFFERENTIAL THERMAL ANALYSIS, AND X-RAY DIFFRACTION
BM-RI-6521 N64-28624 20-18

PRODUCTION ENGINEERING MEASURE FOR IMPROVED RELIABILITY OF SOLID ELECTROLYTE TANTALUM CAPACITORS
QR-2 N64-29345 21-17

PRODUCTION ENGINEERING MEASURE FOR IMPROVED RELIABILITY OF SOLID TANTALUM ELECTROLYTIC CAPACITORS - YIELD, D-C LEAKAGE, AND FAILURE RATES
QPR-4 N64-29845 21-17

IMPROVED RELIABILITY OF SOLID TANTALUM ELECTROLYTE CAPACITORS
QR-3 N64-30793 22-17

EFFECTS OF TANTALUM ON URANIUM CARBIDE CASTINGS AT LIQUIDUS TEMPERATURES
BMI-1673 N64-31593 23-18

CREEP PROPERTIES OF VANADIUM ALLOYS AT HIGH TEMPERATURES - EFFECTS OF TANTALUM ADDITIONS
IITRI-86021-2 N64-32098 23-18

COMPARISON OF SPECTROPHOTOMETRIC METHODS FOR IDENTIFYING TANTALUM AND NIOBIUM WITH ORGANIC REAGENTS
FTD-TT-64-455/1&2 N64-32484 23-07

ROCKET NOZZLE MATERIAL DEVELOPMENT - VAPOR DEPOSITION OF TUNGSTEN AND TANTALUM, AND TUNGSTEN CASTING N64-32696 24-17

SPECTROPHOTOMETRIC METHOD FOR DETERMINATION OF TRACE AMOUNTS OF COBALT IN TANTALUM AND PLUTONIUM
LA-3124 N64-33468 24-07

ELECTRON BEAM WELDING OF ANNEALED TANTALUM SHEET
MLM-1193 N64-33844 24-17

CARBON ION MOBILITY CHANGE IN TITANIUM, TANTALUM, & TUNGSTEN
NASA-TT-F-263 N64-34021 24-18

TANTALUM ALLOY

THERMAL PROPERTIES OF REFRACTORY MATERIALS - BORON CARBIDE, NIOBIUM, TANTALUM, AND MOLYBDENUM ALLOYS, AND ZIRCONIUM NITRIDE
ASD-TDR-63-597 N64-11471 03-13

ENGINEERING PROPERTIES OF NIOBIUM, MOLYBDENUM, TANTALUM, AND TUNGSTEN ALLOYS
DMIC-188 N64-13301 04-18

STRUCTURAL ENGINEERING PROPERTIES OF TANTALUM AND TANTALUM ALLOY
DMIC-189 N64-13832 05-18

TENSILE STRENGTH AT HIGH TEMPERATURE AND PHASE IDENTIFICATION FOR TANTALUM-TUNGSTEN-HAFNIUM-CARBON ALLOY SHEETS
WANL-PR-M-007 N64-14639 06-18

PROTECTIVE COATINGS FOR TANTALUM-TUNGSTEN BASE ALLOYS
RDR-1360-2 N64-14776 06-18

LATTICE MEASUREMENTS BY VEGARD LAW PLOTS OF RUTHENIUM-MOLYBDENUM, RUTHENIUM-TUNGSTEN, AND RUTHENIUM-TANTALUM ALLOYS
AD-429068 N64-15884 07-25

NIOBIUM AND TANTALUM ALLOYS FOR USE AT HIGH TEMPERATURES
BM-RI-6390 N64-16258 08-18

NIOBIUM AND TANTALUM AND THEIR ALLOYS - PROCESS DEVELOPMENT N64-17215 09-18

COLD-ROLLING UNDER TENSION FROM 0.1 TO .015 INCH - NIOBIUM AND TANTALUM ALLOYS
AD-422001 N64-17616 09-17

PROCESSING OF NIOBIUM AND TANTALUM BASE ALLOYS FROM INGOT TO SHEET, ROLLING OF PURE TUNGSTEN SHEET
AD-418544 N64-17617 09-17

MELTING OF COLUMBIUM-BASE AND TANTALUM-BASE ALLOY INGOTS BY ARC CASTING
AD-297246 N64-17660 09-17

MIXED METAL DIBORIDES OF TITANIUM-VANADIUM, TITANIUM-NIOBIUM, AND TITANIUM-TANTALUM
BM-RI-6407 N64-17715 09-19

METALLURGICAL PROCESSING OF TANTALUM-TUNGSTEN ALLOY EXTRUSION SURFACES
ASD-IR-7-783/3/ N64-18576 11-17

MECHANICAL PROPERTIES OF TANTALUM-HYDROGEN AND TANTALUM-MOLYBDENUM ALLOYS - DUCTILE-BRITTLE TRANSITION N64-19927 12-18

TENSILE STRENGTH OF TANTALUM ALLOY SHEET
WANL-PR-M-008 N64-20405 13-18

RESISTANCE WELD EVALUATION OF TANTALUM ALLOY
A749 N64-22591 15-17

TANTALUM ALLOY TUBING WITH INCREASED STRENGTH AND CORROSION RESISTANCE
RTD-8-109/II/ N64-24876 17-17

METALLURGY, COMPOSITION, AND MECHANICAL PROPERTIES OF DISPERSION STRENGTHENED TANTALUM BASE ALLOYS
NASA-CR-54105 N64-25949 18-18

SILICIDE PROTECTIVE COATING FOR TANTALUM ALLOYS N64-27008 19-17

MOLYBDENUM, NIOBIUM, TANTALUM, AND TUNGSTEN BASE ALLOYS AT ELEVATED TEMPERATURE - REFRACTORY ALLOY N64-27580 19-18

POWDER METALLURGY CONSOLIDATION OF TUNGSTEN, MOLYBDENUM, NIOBIUM, AND TANTALUM ALLOYS-REFRACTORY ALLOYS N64-27595 19-18

BINARY HAFNIUM-TANTALUM ALLOY FOR OXIDATION-PROTECTIVE COATING OF TUNGSTEN & TUNGSTEN-ALLOY SUBSTRATES AT VERY HIGH TEMPERATURES
REPT.-25116, VOL. 10 N64-29233 21-18

SINTERED AND INFILTRATED PSEUDO-ALLOYS OF NIOBIUM AND TANTALUM
AD-442530 N64-29639 21-18

MANUFACTURING TANTALUM ALLOY TUBING
RTD-8-109-/III/ N64-30146 21-17

STRONG, DUCTILE TANTALUM ALLOYS FOR HIGH TEMPERATURE SERVICE
QPR-1 N64-32378 23-18

PRODUCTION AND EVALUATION OF TANTALUM ALLOY SHEET
AD-604173 N64-32582 23-18

DETERMINATION OF YTTRIUM IN TANTALUM-YTTRIUM ALLOYS - ADDITION OF HYDROFLUORIC ACID TO ALLOY SAMPLES TO DISSOLVE TANTALUM AND CONVERT YTTRIUM TO INSOLUBLE FLUORIDE
LA-3123 N64-33467 24-07

TANTALUM COMPOUND
COBALT BONDED CARBIDES OF TUNGSTEN, TITANIUM, AND TANTALUM - STRUCTURE AND PROPERTIES
JPRS-18637 N64-10642 01-18

PRODUCING NITRIDES OF REFRACTORY METALS - NIOBIUM, TITANIUM, TANTALUM, AND CHROMIUM
N64-11013 02-17

COMPUTED CHEMICAL EQUILIBRIA OVER LONG RANGE OF HIGH TEMPERATURES BETWEEN ROCKET EXHAUST GASES AND COMPOUNDS OF TANTALUM, TUNGSTEN, AND HAFNIUM
U-2384/2 N64-12866 04-07

HIGH TEMPERATURE THERMAL EXPANSION OF HAFNIUM CARBIDE, NIOBIUM CARBIDE AND TANTALUM CARBIDE
C-18 N64-14017 05-19

VARIATION IN TENSILE STRENGTH, BENDING, COLOR, AND DIAMAGNETIC PROPERTIES OF TANTALUM CARBIDE WITH CARBON CONTENT
NASA-RP-122 N64-14746 06-19

PREPARATION OF ZIRCONIUM & HAFNIUM ALDEHYDIC POLYMERS AND TANTALUM CARBIDE-HAFNIUM CARBIDE ALLOYS N64-15109 07-19

MIXED METAL DIBORIDES OF TITANIUM-VANADIUM, TITANIUM-NIOBIUM, AND TITANIUM-TANTALUM
BM-RI-6407 N64-17715 09-19

CHARACTERISTICS OF ZIRCONIUM, NIOBIUM, & TANTALUM BERYLIDES AS THERMIONIC EMITTERS
DRI-2137 N64-19975 12-06

EFFECT OF VARIATIONS IN TIME, TEMPERATURE, AND PRESSURE ON DENSITY & GRAIN SIZE IN HOT PRESSING OF HAFNIUM-TANTALUM-ZIRCONIUM CARBIDES
NASA-RP-162 N64-19993 12-17

INORGANIC RARE EARTH OXIDES, RADIATION EMANATION OF NEODYMIUM IONS, TANTALUM CALCITE, & LEAD OXIDE-BISMUTH OXIDE
JPRS-24372 N64-21857 15-07

CRYSTAL DATA ON TANTALUM CALCITE
N64-21860 15-07

PHYSICAL PROPERTIES AND MAGNETIC SUSCEPTIBILITIES OF TANTALUM COMPOUNDS /ORTHOTANTALATES/ OF LANTHANUM, SAMARIUM, AND EUROPIUM
FTD-TT-64-321/1&4 N64-25471 17-19

MICROSTRUCTURES IN TANTALUM-CARBON SYSTEM
NASA-RP-319 N64-31004 22-18

PHASES OF TANTALUM CARBIDE SYSTEMS
NASA-TT-F-9068 N64-31335 22-18

ELECTROCHEMICAL ANALYSIS OF TANTALITE AND CONCOMITANT MINERALS DURING FLOTATION
N64-31407 23-07

TAPE
SA MAGNETIC TAPE
CF FASTENER
PHOTOELECTRIC INFORMATION STORAGE - COMPONENTS FOR TAPE CAMERA STORAGE TUBE
RTD-TDR-63-4134 N64-12188 03-09

SHOCK AND VIBRATION ISOLATION FOR SATELLITE TAPE RECORDERS
NASA-TM-X-942 N64-15921 07-15

PHOTOELECTRIC APPARATUS FOR STORING INFORMATION ON NICKEL AND COPPER TAPES
A-51035ARID N64-22495 15-09

LOW POWER, TWO SPEED TAPE RECORDER WITH ENDLESS LOOP CARTRIDGE
NASA-TN-D-2316 N64-22670 15-08

HANDBOOK FOR RELIABLE OPERATION OF ANTENNAS, RECEIVERS AND TAPE RECORDERS
EDL-G169 N64-24914 17-09

MATHEMATICAL MODEL OF SINE WAVE PLUS NOISE FOR PARAMETRIC ANALYSIS OF TAPE RECORDER PERTURBATIONS
NASA-CR-58127 N64-26374 18-09

DRY TAPE BATTERY - ORGANIC NITRO COMPOUND DEPOLARIZERS, ELECTROLYTE ENCAPSULATION, & TAPE MANUFACTURING METHODS
NASA-CR-54165 N64-29417 21-06

SIMPLE PHASE EQUILIZER TO CORRECT PHASE OF DELAY DISTORTION FROM INSTRUMENTATION AND AUDIO TAPE RECORDERS
SU-SEL-63-129 N64-30397 22-08

ANALYZER FOR ERROR DETECTION AND ANALYSIS OF SPACEBORNE DIGITAL TAPE RECORDERS
NASA-TN-D-1863 N64-32834 24-15

TAPE RECORDER
ENCODING AND DECODING EQUIPMENT FOR MAGNETIC TAPE RECORDING OF SLOWLY VARYING METEOROLOGICAL PARAMETERS N64-26975 19-15

INTEGRATED STANDARDS FOR TELEMETRY - REFERENCE SIGNAL GENERATORS, MULTIPLEXERS, TRANSMITTERS, RECEIVERS, AND MAGNETIC TAPE RECORDERS
ARTC-40 N64-28067 20-08

TAPERED WING
LOW FREQUENCY OSCILLATIONS OF TAPERED WINGS AT SUPERSONIC SPEEDS
NPL-AERO-1063 N64-14131 05-03

TAR
CF ASPHALT
SEPARATION OF COAL TAR PITCH INTO LESS COMPLEX FRACTIONS AND INVESTIGATION BY STRUCTURAL ANALYSIS
WADD-TR-61-72, VOL. 11 SUPPL. N64-20170 13-19

TARGET
RADIOMETRIC MEASUREMENT OF TARGETS INCLUDING TRUCKS, TANKS, BRIDGES, & RAILROADS IN DIFFERENT ENVIRONMENTS - MILITARY USE N64-10927 02-01

FIBERBOARD TARGETS FOR M31A1 TRAINFIRE MECHANISM
RIA-TR-63-2879 N64-11541 03-19

GENERATING POSITRONS IN TARGETS BOMBARDED BY ELECTRON BEAM USING ELECTRON-PHOTON CASCADE CALCULATIONS N64-12533 04-23

NEUTRON AND PROTON SPECTRA FROM TARGETS BOMBARDED BY 160-MEV PROTONS N64-12548 04-23

OBSERVING PROPERTIES OF OBJECTS IN RADAR ASTRONOMY - DETECTION OF SPREAD RADAR TARGET
MIT-TR-282 N64-13035 04-05

HYPERVELOCITY ACCELERATORS - SHAPED CHARGE & TARGET PLATE ACCELERATORS N64-13520 04-23

HYPERVELOCITY IMPACT AND PENETRATION OF METAL TARGETS N64-13548 05-23

RADIATION MEASUREMENT TECHNIQUES FOR LOW ALTITUDE AIRBORNE TARGETS - RADIOMETRY
RE-TR-63-26 N64-13743 05-23

HYPERVELOCITY IMPACT OF COPPER FILAMENTS INTO ALUMINUM TARGETS
NASA-TN-D-1981 N64-14726 06-02

RADAR DETECTION OF TARGET COORDINATES WITH BEAMED PULSES AND CONTINUOUS WAVE SIGNALS
N64-15132 07-08

MOTION OF RADAR TARGET AND MINIMUM ATTAINABLE RECEIVER BANDWIDTH N64-15134 07-08

RADAR LOCATION OF SINGLE TARGET USING FREQUENCY MODULATION N64-15139 07-08

INFLUENCE OF VESTIBULAR ORGANS ON ABILITY TO ALIGN VISUAL TARGET WITH HORIZONTAL
NASA-CR-55616 N64-15354 07-14

IMPACT RADIATION ON COLLISION BETWEEN PROJECTILE & TARGET
NASA-CR-55783 N64-15876 07-23

DAMAGE CAUSED BY BOMB ATTACKS REPRESENTED AS DOUBLE INTEGRAL FOR ANY GEOMETRICAL SHAPE AND SIZE OF TARGET
ORA-63-16 N64-16654 08-01

COMPUTER PROGRAMMING OF OPTIMUM VEHICLE TRAJECTORY FOR INTERCEPTION OF ORBITING TARGET
SSD-TDR-63-402, VOL. 2 N64-17336 09-20

DIGITAL SIMULATION PROGRAM FOR STUDYING BOOST, MIDCOURSE, & HOMING PHASE OF TARGET INTERCEPTION BY INTERCEPTOR USING PROPORTIONAL NAVIGATION
SSD-TDR-64-7 N64-17615 09-01

SHOCK, PARTICLE VELOCITIES, AND BLAST WAVE EFFECTS OF PELLET IMPACT ON WAX TARGETS
BRL-1226 N64-17842 10-23

EFFECT OF TARGET REDUNDANCY ON KILL PROBABILITY OF FRAGMENTATION WARHEADS N64-20699 13-01

BLAST LOADING AND TARGET RESPONSE OF BALLISTIC MISSILE REENTRY VEHICLES
TM-1152 N64-21032 14-30

CONDENSER PROBE FOR MEASURING PENETRATION DEPTH OF ABLATIVE PLASMA INCIDENT ON SOLID TARGET
GAMD-4255 N64-21168 14-15

FABRICATION AND PERFORMANCE OF VIDICON TARGET WITH THIN INSULATOR LAYER
AL-TDR-64-93 N64-21414 14-25

FORMULA FOR RADIUS OF SPHERE CENTERED ABOUT POINT TARGET AND HAVING 50 PERCENT PROBABILITY OF IMPACT
GN-00-6437-00161 N64-21621 15-22

FREQUENCY STEPPING METHOD FOR RADAR SCATTERING MEASUREMENT - ROTATION OF COMPLEX TARGET TO OBTAIN RADAR CROSS-SECTION PATTERN
FZE-222-3 N64-22555 15-08

TARGETING TECHNIQUES - SEQUENTIAL DETECTION AND STATISTICAL PROBABILITY OF STRIKES & FAILURE
REPT.-33 N64-23921 16-20

PULSED BACKSCATTER RANGE RADAR AND INSTRUMENTATION FOR MEASUREMENT OF TARGET CROSS SECTIONS
N64-24302 17-08

METAL SPRAYING OF GLASS FIBER RADAR TARGET MODELS
N64-24315 17-08

PULSE RADAR SCATTERING FROM LINEAR TARGETS USING X-BAND RADAR WITH NANOSECOND PULSE WIDTH
N64-24319 17-08

TRACKING TARGET SEEKERS & HOMING DEVICE
N64-24600 17-22

OPTICAL SYSTEMS OF TARGET SEEKERS & HOMING DEVICES
N64-24602 17-15

EFFECTIVE SCATTERING CROSS SECTIONS OF TARGETS, HALF-WAVE DIPOLES, FLAT SURFACES, TARGET GROUPS, AIRCRAFT, AND SHIPS N64-24636 17-09

EFFECTS OF REDUCTION OF ANTENNA-TO-TARGET DISTANCE
N64-24714 17-08

TARGET CALIBRATION REFERENCES AND PROCEDURES FOR RADAR MEASUREMENT PURPOSES N64-24719 17-08

HIGH POWER PULSED RADAR SYSTEM DESIGNED FOR CROSS SECTION MEASUREMENT OF FULL-SIZE TARGETS
N64-24726 17-08

MAGNETIC FIELD EFFECTS ON MOLECULAR BEAM SCATTERING FROM TARGET ROTOR
AST-3530-102-64U N64-27232 19-11

TRANSIENT HYPERVELOCITY IMPACT PHENOMENA IN TRANSPARENT TARGET
BRL-MEMO-1567 N64-28157 20-33

RADAR SIGNATURES OF INTERFERING TARGETS AND TWO CIRCUITS TO COMBAT INTERFERENCE
ESD-TDR-64-252 N64-30178 21-15

EXACT MATHEMATICAL DERIVATION OF EXPECTED DAMAGE TO CIRCULAR TARGET BY MULTIPLE WARHEAD
NWL-1936 N64-31661 23-20

THERMAL CONTRASTS OF TACTICAL MILITARY TARGETS
USAELRDL-TR-2353 N64-32092 23-15

MODULATION AND DETECTION PROCESSES FOR VENUS UNCOOPERATIVE RADAR TARGET ANALYSIS
NASA-CR-58777 N64-32998 24-05

ELASTIC COLLISION STOPPING OF PARTICLES FROM PLANE UNIDIRECTIONAL SOURCE IN INFINITE MEDIUM OF RANDOMLY LOCATED TARGET ATOMS
ARL-64-129 N64-33954 24-23

AUTOMATIC TARGET DATA PROCESSOR - RADAR VIDEO DIGITIZER AND AZIMUTH DIGITIZER
RD-64-124 N64-33994 24-08

TARGET ACQUISITION
COMPUTER PROGRAM TO CALCULATE ACQUISITION COORDINATES OF EARTH SATELLITES FOR TRACKING AND FIXED BEAM SURVEILLANCE SENSORS
U-1854 N64-32389 23-20

MICHIGAN PROJECT COMBAT SURVEILLANCE AND TARGET ACQUISITION RADAR - GEOMETRIC DISTORTIONS IN FIELD OF VIEW OF ROTATING-OBLIQUE MIRROR SCANNING SYSTEM
REPT.-6400-10-T N64-33956 24-15

TARGET PENETRATION
ANALYSIS OF IMPACT ON QUASI-INFINITE, FINITE, THIN PLATE, AND SHIELDED TARGETS
ASRL-99-2 N64-19126 11-23

INTERACTION OF HIGH-SPEED PARTICLES WITH GASEOUS TARGETS - IMPACT LIGHT FLASH & IONIZATION EFFECTS
NASA-CR-56620 N64-23994 16-23

EFFECT OF SPRAY PARTICLES FROM PENETRATION OF THIN TARGETS BY HYPERVELOCITY PARTICLES
APL-TDR-64-60 N64-29943 21-33

HYPERVELOCITY IMPACT OF ALUMINUM PROJECTILES ON VARIOUS METAL TARGETS
ATL-TDR-64-51 N64-30707 22-33

PLATE PELLET METHOD OF SHOCK WAVE ATTENUATION AND TARGET DAMAGE BY EXPLOSIVE GENERATED SHOCK WAVES
AD-293457 N64-32189 23-33

TARGET RECOGNITION
IMAGE QUALITY AND MILITARY TARGET RECOGNITION PERFORMANCE N64-10532 01-14

FLASH AND REAL-TIME IDENTIFICATION OF HIGH PRIORITY TARGETS - PHOTO INTERPRETATION
N64-10535 01-14

AUTOMATIC RADAR GROUND STATION FOR MEASURING COORDINATES OF GROUND TARGETS
JPRS-22384 N64-11919 03-06

OBSERVING PROPERTIES OF OBJECTS IN RADAR ASTRONOMY - DETECTION OF SPREAD RADAR TARGET
MIT-TR-282 N64-13035 04-05

COLOR FILTERING AND DISPLAY TECHNIQUE EFFECTS ON VISUAL PERCEPTION - SPECTRA ZONAL PHOTOGRAPHY AND TARGET DETECTION
FR-63-11-287 N64-13846 04-14

RAPID PRESENTATION TECHNIQUE FOR IMPROVING TARGET RECOGNITION PERFORMANCE OF PHOTOINTERPRETERS
RADC-TDR-63-421 N64-14108 05-01

MULTIPLE HETERODYNE CIRCUITS OF FREQUENCY-MODULATED RADARS FOR SINGLE TARGET DETECTION
N64-15142 07-08

LIMITATIONS ON ABILITY TO POSITION AND LOCATE OBJECTS IN SPACE DUE TO DISTORTION BY EARTH ATMOSPHERE - TARGET ACQUISITION

SRA-356 N64-17361 09-12

PASSIVE OPTICAL SPACE SURVEILLANCE SYSTEM - TARGET DISCRIMINATION IN CELESTIAL ENVIRONMENT AND ORBIT PREDICTION
RADC-TDR-63-415 N64-21070 14-23

PREDICTING DIFFICULTY ENCOUNTERED IN LOCATING TARGETS USING AERIAL PHOTOGRAPHY
AMRL-TDR-64-19 N64-22566 15-14

INTERFEROMETRY FOR AEROSPACE VEHICLE DETECTION AND SATELLITE RECOGNITION N64-23011 16-15

TARGET SEEKERS & HOMING DEVICES FOR GUIDED MISSILES N64-24599 17-22

TARGET RECOGNITION AND DISCRIMINATION N64-24722 17-08

SIMULATED AIRCRAFT SPEED EFFECT ON DETECTING AND IDENTIFYING TARGETS FROM SIDE-LOOKING RADAR IMAGERY
AMRL-TDR-64-40 N64-26874 18-14

EFFECT OF DIRECTION AND SPEED OF IMAGE MOTION ON TARGET RECOGNITION BY OBSERVER OF SIDE-LOOKING RADAR
AMRL-TDR-64-45 N64-28604 20-14

RADAR MAPPING OF DISTRIBUTED TARGETS
SSD-TDR-64-105 N64-29831 21-08

TARGET SIGNAL REALISM IN SIMULATOR TRAINING OF SONAR OPERATORS
NAVTRADEVCEN-1320-1 N64-30895 22-10

SIMULTANEOUS RADAR OBSERVATION OF MULTIPLE TARGETS WITHIN BROAD SURVEILLANCE REGION
AFCRL-64-696 N64-30976 22-08

RADAR SYSTEMS & TARGET RESOLUTION
SSD-TDR-64-107 N64-30986 22-08

SEQUENTIAL DETECTION OF EMERGING TARGETS IN RADAR SEARCH SYSTEM
USCEE-109 N64-31083 22-08

TELEVISION BANDWIDTH EFFECTS ON TARGET IDENTIFICATION
NMC-TM-64-2 N64-31640 23-08

APPLICATION OF STATISTICAL DECISION THEORY TO AUTOMATIC RADAR DETECTION SYSTEMS
NEL-1202 N64-32577 23-20

ACCURACY OF TARGET RECOGNITION BY VISUAL PHOTOGRAPH INTERPRETATION OF OBLIQUE FORMS
RADC-TDR-64-144 N64-33536 24-14

TARGET THICKNESS
REDUCTION OF ENERGY SPREAD OF SYNCHROCYCLOTRON BEAMS DUE TO RADIAL OSCILLATIONS AND TARGET THICKNESS
UR-875-17 N64-12387 03-23

PENETRATION, PERFORATION, & SPALLING OF THIN TARGETS BY HYPERVELOCITY PROJECTILES
DRL-TR63-208 N64-13304 04-23

X-RAYS PRODUCED BY BREMSSTRAHLUNG ON THICK TARGET WITH 1.2 MEV ELECTRONS - INTENSITY DISTRIBUTION AROUND VAN DE GRAAFF ACCELERATOR
LFEN.7 /GAMMA, DELTA/ N64-31032 22-23

TASK
EFFECTS OF MODIFIED TASK FEEDBACK DURING TRAINING ON PERFORMANCE OF SIMULATED ATTITUDE CONTROL TASK AFTER THIRTY DAYS
AMRL-TDR-63-125 N64-16811 08-14

DEVELOPMENT OF TASK ANALYSIS METHOD AS PART OF TRAINING PROGRAM
NAVTRADEVCEN-1218-1 N64-29247 21-14

TAXIING
TAXIWAY CENTERLINE LIGHTING FOR IMPROVING AIRPORT RUNWAY VISIBILITY
RD-64-46 N64-21013 14-10

TAYLOR THEOREM
TAYLOR AND LAGRANGE THEOREMS AND DIFFERENTIAL OPERATORS IN N-DIMENSIONS
SLAC-22 N64-13366 04-20

TAYLOR SERIES IN DIGITAL ADAPTIVE CONTROL SYSTEM RESEARCH
NASA-CR-53610 N64-18476 10-20

CONVERGENCE OF GALERKIN METHOD FOR TAYLOR-DEAN FLOW STABILITY AND VISCOUS FLUID PROBLEMS
RPI-63 N64-33023 24-11

CONVERGENCE OF GALERKIN METHOD FOR TAYLOR-DEAN FLOW STABILITY PROBLEMS N64-33024 24-11

TEACHING MACHINE
LEARNING SYSTEM - TAUGHT BY HUMANS, AUTOMATICALLY TAUGHT, & SELF-TAUGHT
JPRS-21770 N64-10204 01-16

TEACHING MACHINES WITH SEMICONDUCTOR DEVICES AND RELAYS DESIGNED FOR SELF-EXAMINATION, TESTING AND COUNSELLING
JPRS-19506 N64-10822 02-01

AUTOMATIC TEACHING MACHINE FOR VISUAL PERCEPTION - CYBERNETICS N64-12524 04-16

OPTICAL PREPROCESSOR WITH INPUT FROM TELEVISION CAMERA APPLICABLE TO MINOS II LEARNING MACHINE FOR GRAPHICAL DATA PROCESSING
REPT.-13 N64-13614 05-23

TEACHING MACHINES AND PROGRAMMED LEARNING IN THE SOVIET - LITERATURE SURVEY
JPRS-23280 N64-15333 07-20

PROGRAMMED INSTRUCTION AND CYBERNETIC TEACHING MACHINES
JPRS-24933 N64-21694 15-08

DESIGNS AND FUNCTIONS OF TEACHING MACHINES - CYBERNETICS
JPRS-25893 N64-27042 19-08

SELF TEACHING SYSTEMS WITH POSITIVE FEEDBACK
JPRS-25603 N64-28443 20-09

TECHNETIUM
BORON PARTICLE SIZE, SPECTROCHEMICAL ANALYSIS, PYROHYDROLYSIS, MOLYBDENUM AND TECHNETIUM HYDROLYSIS
NBL-210 N64-23061 16-23

RECOVERY AND ISOLATION OF TECHNETIUM FROM FISSION PRODUCT WASTES
NASA-CR-58966 N64-33157 24-18

TECHNETIUM FLUORIDE
REDUCTION OF URANIUM HEXAFLUORIDE RETENTION ON MAGNESIUM FLUORIDE ABSORBERS USED IN REMOVAL OF TECHNETIUM HEXAFLUORIDE
ORNL-3544 N64-14888 06-07

TECHNIQUE
S DIGITAL TECHNIQUE
S IMAGING TECHNIQUE
S INDUCTION LOOP TECHNIQUE
S PARTICLE IN CELL TECHNIQUE
S SCREENING TECHNIQUE

TECHNOLOGY /GEN/
SA MILITARY TECHNOLOGY
SA REACTOR TECHNOLOGY
IMPACT OF SPACE TECHNOLOGY - PLANS FOR LUNAR EXPLORATION AND SPACE RESEARCH N64-10348 01-01

REPORT OF RUSSIAN SCIENCE & TECHNOLOGY
JPRS-19016 N64-10507 01-01

TECHNICAL RESOURCES DIRECTORY IN PLASTICS - DIRECTORY OF KNOWLEDGEABLE GOVERNMENT PERSONNEL
PLASTEC-5A N64-10626 01-19

SIGNIFICANCE OF CYBERNETICS IN SCIENCE, ECONOMY, & TECHNOLOGY
JPRS-18033 N64-11024 02-09

USE OF SPACE AGE SCIENCE AND TECHNOLOGY TO SOLVE SOCIOECONOMIC PROBLEMS OF METROPOLITAN AREAS RESULTING FROM INDUSTRIAL GROWTH
NASA-SP-37 N64-11502 03-01

SPACE AGE TECHNIQUES AND SCIENCE FOR METROPOLITAN AREA SOCIOECONOMIC PROBLEMS N64-11503 03-01

SPACE TECHNOLOGY, THE SPACE PROGRAM, AND SOCIO-ECONOMIC PROBLEMS OF METROPOLITAN AREAS N64-11504 03-01

SPACE SCIENCE AND TECHNOLOGY AND SOCIOECONOMIC PROBLEMS N64-11507 03-01

SCIENCE, TECHNOLOGY, GROWTH OF INDUSTRY, AND SOCIOECONOMIC PROBLEMS N64-11509 03-01

FACTORS LIMITING TRANSFER OF TECHNOLOGY IN SECTORS OF THE ECONOMY N64-11510 03-01

SOCIOECONOMIC PROBLEMS ARISING FROM ADVANCES IN SCIENCE & TECHNOLOGY AND THE SPACE PROGRAM N64-11513 03-01

EFFECT OF SCIENTIFIC DEVELOPMENTS ON TRANSPORTATION, COMMUNICATION, POWER RESOURCES, AND CONSTRUCTION INDUSTRIES N64-11514 03-01

EXPANDING TECHNOLOGY AND IMPLICATIONS OF SOCIO-ECONOMIC PROBLEMS OF METROPOLITAN AREAS N64-11518 03-01

SPACE TECHNOLOGY AND SCIENTIFIC TECHNIQUES IN THE SOLUTION OF SOCIOECONOMIC PROBLEMS OF INDUSTRIAL METROPOLITAN AREAS N64-11520 03-01

HISTORY OF SCIENCE AND TECHNOLOGY - AIRCRAFT, ROCKETS, AND SPACE FLIGHT
NASA-TM-X-51269 N64-11896 03-01

TECHNICAL-ECONOMICAL APPROACH TO SELECTION OF BASIC PARAMETERS FOR NEW TECHNICAL MEANS OF AUTOMATIC CONTROL - CYBERNETICS N64-12454 04-20

CYBERNETICS AND PROGRESS IN SCIENCE & TECHNOLOGY N64-12508 04-16

SOVIET ADVANCEMENTS IN SCIENCE & TECHNOLOGY
JPRS-21990 N64-14342 06-01

ACTIVITIES OF INSTITUTE OF BASIC TECHNICAL PROBLEMS OF POLISH ACADEMY OF SCIENCES N64-14413 06-10

ADVANCED ELECTRON DEVICE TECHNOLOGY
REPT.-77 N64-14481 06-09

UNITED STATES NAVY RESEARCH PROJECTS AND TECHNOLOGICAL ADVANCES
ONR-16, VOL. 1 N64-15101 07-01

SOVIET SCIENCE & TECHNOLOGY - LITERATURE SURVEY
AID-P-63-2 N64-16994 09-01

FUTURE TRENDS IN SOVIET SCIENCE AND TECHNOLOGY
AID-P-64-6 N64-19961 12-01

LIQUID METAL TECHNOLOGY N64-20784 14-06

SCIENCE AND TECHNOLOGY IN COMMUNIST CHINA
JPRS-24593 N64-20924 14-01

BIBLIOGRAPHY ON ETHICAL AND SOCIAL PROBLEMS OF SCIENCE AND TECHNOLOGY
LAMS-3028 N64-22060 15-01

PRESSABILITY OF IRON POWDERS - INFLUENCE OF TECHNOLOGICAL FACTORS N64-22175 15-18

SCIENCE AND TECHNOLOGY IN CHINA
JPRS-24758 N64-22876 16-01

COMMERCIAL APPLICATION OF MISSILE/SPACE TECHNOLOGY
NASA-CR-56719 N64-24335 17-01

VARIOUS SCIENCE AND TECHNOLOGICAL ACTIVITIES IN COMMUNIST CHINA
JPRS-25656 N64-28041 20-07

WRITING TECHNICAL REPORTS
NASA-RP-301 N64-28707 20-08

SCIENCE AND TECHNOLOGY IN COMMUNIST CHINA
JPRS-25267 N64-28728 20-01

AGRICULTURAL METEOROLOGY, METEORITES, AND USE OF SPECTROPHOTOMETRIC DATA IN COMMUNIST CHINA
JPRS-27009 N64-34006 24-07

TECTONIC MOVEMENT
INTERNATIONAL GEOPHYSICAL YEAR PAPERS ON SEISMOLOGY, TECTONIC MOVEMENTS, AND GRAVITY
AID-T-64-8 N64-16451 08-12

CRIMEAN GEOPHYSICAL POLYGON FOR STUDYING ABYSSAL STRUCTURE OF EARTH CRUST AND RECENT TECTONIC MOVEMENTS N64-16458 08-12

RECENT TECTONIC MOVEMENTS OF EARTH CRUST N64-16459 08-12

FORMATION AND DEVELOPMENT OF EARTH CRUST, EVOLUTION OF EARTH ATMOSPHERE, & TECTONIC MOVEMENT N64-24772 17-29

STRESS AND LOAD PRODUCED IN EARTH CRUST AND MANTLE BY DENSITY DISTRIBUTION IRREGULARITIES AND TECTONIC MOVEMENTS OF EARTH
NASA-CR-56228 N64-30520 22-12

RECENT VERTICAL MOVEMENTS ON FAR EASTERN SEA FLOORS
T-407-R N64-32864 24-12

TEFLON
QUANTITY PRODUCTION OF METALIZED-TEFLON CAPACITORS WITH SELF-REPAIRING CHARACTERISTICS FOR EXTREME-SERVICE APPLICATION
PB-181-537 N64-13319 04-09

COMBUSTION OF TEFLON MONOMER AND MECHANICAL & ELECTRICAL PROPERTIES OF POLYMERS
TDR-169/3240-22/TR-1 N64-13761 05-26

SEALING BETWEEN GIMBALS FOR REDUCED TORQUE AND LEAKAGE OF LOW PRESSURE GAS - TEFLON SEALS
NASA-CR-56645 N64-24125 16-17

VAPORIZED TEFLON CAPACITORS - METALLIZED MYLAR COATED WITH THIN FILM TEFLON DIELECTRIC BY GLOW DISCHARGE
QR-5 N64-24979 17-09

ABLATION PROPERTIES OF TEFLON ON BLUNTED CYLINDER FLARE CONFIGURATION DURING HYPERSONIC FLIGHT
NASA-TN-D-2354 N64-25189 17-30

FABRICATION OF VERTICAL-ORIFICE TEFLON CAPILLARY OF TEFLON DROPPING-MERCURY ELECTRODE
ORNL-3654 N64-26797 18-17

TEKTITE
RUBIDIUM, STRONTIUM, & STRONTIUM ISOTOPIC COMPOSITION OF TEKTITES
NASA-TM-X-51168 N64-11339 02-05

HYPOTHESIS ON TEKTITE ORIGIN BY COMET IMPACT WITH EARTH N64-14934 06-05

CHARACTERISTICS, PROPERTIES, AND ORIGIN OF TEKTITES IN RELATION TO MOON N64-15284 07-05

BIBLIOGRAPHY ON TEKTITES
RSIC-107 N64-15809 07-05

METEORITES AND TEKTITES
NASA-CR-55360 N64-16215 08-05

SOUTHEAST ASIA TEKTITE FIELDS N64-16772 08-05

ORIGIN OF TEKTITES
NASA-RP-150 N64-17711 09-05

TEKTITES AND SILICA GLASSES - HISTORY, CHEMICAL COMPOSITION, GEOMETRY, NOMENCLATURE, DISTRIBUTION, LOCALIZATION, AND LOCAL GEOLOGY AT DISCOVERY SITES

N64-25059 17-05

VARIATION OF STRONTIUM ISOTOPIC COMPOSITION IN TEKTITES
NASA-RP-292 N64-28353 20-07

CHEMICAL ANALYSIS OF ELEMENT ABUNDANCES IN TEKTITES
NASA-RP-291 N64-28414 20-12

VAPOR PRESSURE AND VAPOR FRACTIONATION OF SILICATE MELTS OF TEKTITE COMPOSITION
NASA-RP-298 N64-28705 20-07

CRITIQUE OF PAPER ON ORIGIN AND ATMOSPHERIC ENTRY TRAJECTORY OF TEKTITES
NASA-RP-235 N64-29282 21-12

VAPOR PRESSURE & FRACTIONATION OF TEKTITE MELTS
NASA-TN-D-1084 N64-30091 21-12

METAL SPHERULES SYNTHESIZED BY MELTING PHILIPPINE TEKTITES N64-30454 22-18

COMPARISON OF SPECIFIC GRAVITY OF TEKTITES FROM AUSTRALIA, ASIA, TEXAS, AND CZECHOSLOVAKIA
NASA-RP-299 N64-31002 22-12

THEORY OF TEKTITE ORIGIN ON MOON AS IMPACT FRAGMENTS
NASA-RP-335 N64-31213 22-12

UNITY AND ORIGIN OF AUSTRALASIAN TEKTITES
NASA-RP-343 N64-31571 23-12

TEKTITE ORIGIN - DATING FROM NUMBER OF URANIUM FISSION TRACKS
NASA-TT-F-8944 N64-33064 24-29

TELECHIRICS
S COMMAND CONTROL

TELECOMMUNICATION
MEETING OF UNITED NATIONS COMMITTEE ON PEACEFUL USES OF OUTER SPACE - SPACE LAW, METEOROLOGY, AND TELECOMMUNICATION
A/AC.105/PV-22 N64-10435 01-01

VOICE TELEGRAPHY SYSTEMS - CIRCUIT FEATURES, EQUIPMENT LAYOUT, AND SYSTEM DESIGN
OTS-63-31001 N64-10510 01-08

COMPILATION OF REPORTS ON SYSTEMS, GUIDANCE, CONTROL, ENGINEERING AND MATERIALS, FACILITIES, PROPULSION, TELECOMMUNICATIONS, AND SPACE SCIENCE
NASA-CR-53001 N64-13262 04-01

TELECOMMUNICATIONS SYSTEM FOR MANNED MARS SPACE FLIGHT
NASA-CR-53047 N64-14845 06-29

SPACE FLIGHT SUPPORTING PROGRAMS - GUIDANCE & CONTROL, PROPULSION, POLYMER PHYSICS, TELECOMMUNICATIONS, AND AERODYNAMICS
NASA-CR-53054 N64-14896 06-01

RELIABILITY OF MARINER B TELECOMMUNICATIONS
NASA-CR-53056 N64-15780 07-32

APOLLO SPACECRAFT TELECOMMUNICATIONS SYSTEM
N64-16177 08-08

SPACE PROGRAM SUMMARY - SYSTEMS, GUIDANCE AND CONTROL, ENGINEERING, PROPULSION, SPACE SCIENCES, AND TELECOMMUNICATIONS RESEARCH
NASA-CR-56175 N64-20816 14-01

COMMUNICATION SATELLITES FOR TELECOMMUNICATIONS - ECONOMIC FEASIBILITY
NASA-CR-58031 N64-29553 21-32

TELEMETRY
AUTOMATIC TELEMETERING HYDROMETEOROLOGICAL SYSTEM TO INCREASE ACCURACY IN WEATHER FORECASTING
N64-10283 01-12

TELEMETRY PROBLEMS IN MEDICAL AND BIOLOGICAL RESEARCH
JPRS-17672 N64-10629 01-16

TELSTAR SATELLITE COMMAND AND TELEMETRY SYSTEMS
N64-10879 02-08

UTILIZATION OF COMMUNICATION SYSTEMS AND TELEMETRY IN HOSPITALS
JPRS-17534 N64-11004 02-16

ANIMAL BEHAVIOR STUDIES WITH MULTI-ENCLOSURE, PROGRAMMED ENVIRONMENT, AND TELEMETRY SYSTEMS
N64-11258 02-16

TELEMETRY SYSTEM FOR TRANSMISSION OF BIOLOGICAL DATA FROM SPACE FLIGHTS N64-11669 03-16

PULSE CODE MODULATION TELEMETRY DATA PROCESSING FOR ECCENTRIC ORBITING GEOPHYSICAL OBSERVATORY
NASA-TM-X-51259 N64-11812 03-08

FILTERING, ENCODING SYSTEM, TELEMETRY, AND DECODING OF SATELLITE MEASUREMENTS - DATA PROCESSING
NASA-CR-55017 N64-12026 03-08

TELEMETRY-TRAJECTORY SYSTEM - ALTITUDE VERSUS TIME DATA FROM UPPER-AIR SOUNDING ROCKETS
AFCRL-63-778 N64-12613 04-30

PULSE FREQUENCY MODULATION TELEMETRY - CODING, NOISE ANALYSIS, FILTERS, SIGNAL-TO-NOISE RATIOS
NASA-TR-R-189 N64-12695 04-08

TELEMETRY TRANSDUCER HANDBOOK WITH BIBLIOGRAPHY
WADD-TR-61-67, VOL. 1, REV. 1 N64-12704 04-15

PULSE FREQUENCY MODULATION SIMULATOR FOR DESIGN AND TESTING OF TELEMETRY EQUIPMENT FOR SATELLITE SYSTEMS
NASA-TM-X-51336 N64-12946 04-08

TELEMETRIC COMMUNICATION WITH AND CONDITIONS IN MARS-I SPACECRAFT, AND SPACECRAFT TRAJECTORY CONSIDERATIONS
FTD-TT-63-94/1&2&4 N64-13158 04-29

SMALL MULTICHANNEL ELECTROENCEPHALOGRAPHIC TELEMETERING SYSTEM
RLE-TR-413 N64-13243 04-08

SYSTEMATIC STATISTICS USED FOR DATA COMPRESSION IN SPACE VEHICLE TELEMETRY SYSTEM
NASA-CR-53031 N64-13279 04-08

SPACE EXPLORATION - BALLOONS, SOUNDING ROCKETS, SATELLITES, TRACKING & TELEMETRY STATIONS, & SUPPORTING ACTIVITIES N64-13450 05-01

PULSE-POSITION AND PULSE-DURATION MODULATION IN PERSONAL TELEMETRY SYSTEMS
AMRL-TDR-63-96 N64-13804 05-08

TELEMETRY, COMMUNICATIONS, GUIDANCE, TRACKING, AND ELECTRONICS FOR SPACE APPLICATIONS
N64-16151 08-08

X-BAND REENTRY TELEMETRY SYSTEM
N64-16152 08-08

HIGH RESOLUTION TELEMETRY SYSTEM FOR DIAGNOSTIC ROCKETS N64-16153 08-08

MEDIUM DATA RATE DIGITAL TELEMETRY SYSTEM
N64-16154 08-08

C-BAND TELEMETRY SYSTEM FOR POLARIS MISSILE RANGE MEASUREMENT N64-16155 08-08

TELSTAR SATELLITE TELEMETRY AND COMMAND SYSTEMS
N64-16156 08-08

PACKAGING OF AIRBORNE MULTIPLEXER-ENCODER PULSE CODE MODULATION TELEMETRY SYSTEM
N64-16160 08-09

PERFORMANCE CHARACTERISTICS OF ERROR LOCATION CODES FOR SPACE PROBE TELEMETRY SYSTEMS
N64-16178 08-08

SATELLITE TELEMETRY OF OCEANOGRAPHIC OBSERVATIONS
N64-16942 09-08

CAPABILITY OF PLASMA GENERATORS TO PROVIDE DATA FOR DETERMINING TELEMETRY-PLASMA SHEATH INTERACTIONS
A-220 N64-20274 13-24

DISTRIBUTED MULTICHANNEL COMMUNICATIONS SYSTEM FOR REMOTE CONTROL AND TELEMETRY
CERN-64-21 N64-20443 13-08

TRANSDUCERS, TELEMETRY SYSTEMS, AND POWER SOURCES USED IN PROPULSION TEST VEHICLES
CARDE-TN-1518/63 N64-20625 13-15

ANNOTATED BIBLIOGRAPHY ON PULSE CODE MODULATED TELEMETRY
SB-64-6 N64-20897 14-08

APPLICATION OF SWEPT FREQUENCY MODULATION TECHNIQUES TO PCM TELEMETRY
RTD-TDR-63-4126 N64-21066 14-08

TELEMETRY PERFORMANCE TEST FOR MISSILE TECHNICIANS MAINTAINING GROUND STATION EQUIPMENT
ND-64-36 N64-21220 14-14

SYNTHESIS AND MECHANIZATION OF ENCODING TECHNIQUES FOR USE IN PULSE FREQUENCY MODULATION TELEMETRY SYSTEM FOR SATELLITES
NASA-TN-D-1672 N64-21263 14-08

PROFICIENCY TEST FOR TECHNICIANS MAINTAINING TELEMETERING GROUND STATION EQUIPMENT - OPERATOR PERFORMANCE
ND-64-37 N64-21373 14-14

NUCLEAR RADIATION EFFECTS ON TELEMETRY
RTD-TDR-63-4287 N64-21529 15-08

NUCLEAR RADIATION ENVIRONMENT EFFECTS ON TELEMETRY MODELS
RTD-TDR-63-4287, VOL. 1 N64-21536 15-08

MULTICHANNEL PHASE TELEMETRY SYSTEM
FTD-TT-62-1636/1&2&4 N64-21655 15-08

EXPLORER XVII REAL TIME PCM TELEMETRY DATA PROCESSING AND DISPLAY TEST STAND
NASA-TN-D-2318 N64-23026 16-22

FREQUENCY-COMBINATION CODE SYSTEM FOR TELEMETRY
N64-23088 16-08

NIMBUS SATELLITE SYSTEMS CONTAINING MICROELECTRONIC CIRCUITS - TELEMETRY SYSTEM
NASA-TN-D-2311 N64-23221 16-09

TELEMETRY PREDETECTION RECEIVER RECORDER-REPRODUCER SYSTEM
NTC-TDR-63-11 N64-23358 16-08

MULTICHANNEL TELEMETRY DEVICE USING ERROR SIGNAL GENERATING COMPARATOR AND MEMORY CIRCUIT
FTD-TT-63-95/1&2&4 N64-23419 16-08

TRIGGERING CODE FOR PROTECTION FROM RANDOM PULSE INTERFERENCE IN TELEMETRY SYSTEMS
N64-23550 16-09

DATA TRANSMISSION FROM MOON TO EARTH - SPACE TELEMETRY
N64-23643 16-29

METEOROLOGICAL INSTRUMENTATION AND TELEMETRY SYSTEMS SUITABLE FOR 70- TO 150-KM ALTITUDE
EOS-3800, PT. 1 N64-23886 16-15

TELEMETRIC BIOMETRY OF ASTRONAUTS DURING SPACE FLIGHT
N64-25166 17-14

TELEMETRY DIGITAL OUTPUT TERMINAL FOR DATA PROCESSING, PREPARATORY TO REAL TIME ANALYSIS
ERDA-117 N64-25208 17-08

ROCKET RADIOSONDE PROVIDING FOUR SIMULTANEOUS CHANNELS OF TELEMETRY
USAELRDL-TR-2382 N64-25297 17-32

BINARY-DECIMAL CODE FOR TRANSMITTING TELEMETRY SIGNALS
FTD-TT-64-302/1&2 N64-25452 17-08

ANTENNA DESIGN - ANTENNAS FOR TELEMETRY, COMMAND CONTROL, AND BEACON TRANSPONDER SYSTEMS
AFCRL-63-594 N64-25723 17-09

APPLICATION OF INTEGRATED CIRCUITS TO TELEMETRY SYSTEMS
NASA-TN-D-1905 N64-25909 18-09

MEDIUM-DATA-RATE DIGITAL TELEMETRY SYSTEM FOR SATELLITES
NASA-TN-D-2315 N64-26542 18-06

SEMICONDUCTOR COMMUTATOR FOR TELEMETRY SYSTEMS
TR-1149 N64-26651 18-09

TECHNIQUES FOR REDUCTION OF REDUNDANCY IN PULSE CODE MODULATED /PCM/ TELEMETRY DATA
AL-TDR-64-10 N64-26763 18-08

PASSIVE TELEMETRY OF PHYSIOLOGICAL PHENOMENA
NASA-CR-56942 N64-27314 19-16

INTEGRATED STANDARDS FOR TELEMETRY - REFERENCE SIGNAL GENERATORS, MULTIPLEXERS, TRANSMITTERS, RECEIVERS, AND MAGNETIC TAPE RECORDERS
ARTC-40 N64-28067 20-08

RADIOMETRY AND TELEMETRY TECHNIQUES AND APPARATUS FOR GEOPHYSICAL INVESTIGATIONS OF DEEP OIL AND GAS WELLS
JPRS-26100 N64-28398 20-15

MINIATURIZED TELEMETERING PACKAGE FOR DATA ACQUISITION AT HIGH SPEED WATER ENTRY
GD/C-64-108 N64-28455 20-08

TRANSMISSION OF SEISMOGRAPHIC SIGNALS OVER WIDE FREQUENCY RANGE - MULTICHANNEL TELEMETRY SYSTEM
N64-28510 20-08

MULTICHANNEL TELEMETRY SYSTEM N64-28523 20-08

CONSTANT BANDWIDTH FREQUENCY MODULATION /FM/ STANDARD - TELEMETRY SYSTEM
ARTC-39 N64-28783 20-08

LIGHTWEIGHT PORTABLE LOG PERIODIC ANTENNA ARRAY
ESD-TDR-64-35 N64-28824 20-08

POWER ALLOCATION IMPROVEMENT IN MULTIPLEX TELEMETRY SYSTEMS BY MODULATING HIGH POWER-CONSUMING FUNCTION ON SEPARATE RADIO FREQUENCY CARRIER
ESD-TDR-64-104 N64-30456 22-08

COMPARISON OF CONTINUOUS WAVE RANGING SYSTEMS FOR SATELLITE TRACKING, TELEMETRY, AND COMMAND SYSTEMS
SSD-TDR-63-334, VOL. 2 N64-30530 22-08

BEACON TRACK & PERFORMANCE PAYLOAD TELEMETRY SYSTEM FOR WEST FORD PROJECT
ESD-TDR-64-21 N64-30773 22-08

REVIEW AND ANALYSIS OF TELEMETRY LINK DATA BY TYPE AND OCCURRENCE OF DEVIATIONS FROM STANDARDS
ESD-TDR-64-131 N64-31890 23-08

CONTINUOUS WAVE RADAR TRANSMITTER FOR SPACECRAFT TRACKING AND COMMANDING, AND RECEPTION OF TELEMETRY AND TELEVISION SIGNALS
NASA-CR-58801 N64-32997 24-08

DOCUMENTATION OF SATURN PROJECT RADIO FREQUENCY & TELEMETRY CHECKOUT PROCEDURES FOR TRACKING FACILITY
NASA-CR-58964 N64-33193 24-08

GEMINI AND AGENA TELEMETRY FORMATS AND NETWORK STATION SYSTEMS FOR MANNED SPACE FLIGHT NETWORK
NASA TM-X-55099 N64-33567 24-08

ULTRA LONG-RANGE TELEMETRY - SIGNAL TRANSMISSION AND DETECTION, AND INFORMATION PROCESSING
AL-TDR-64-87, VOL. I N64-33790 24-08

ULTRA LONG RANGE TELEMETRY STUDY - ANALOG VERSUS DISCRETE SYSTEMS
AL-TDR-64-87, VOL. II N64-33791 24-08

TELEPHONE
LIFE OF UNSEALED GENERAL PURPOSE TELEPHONE RELAYS
N64-19521 12-09

ENGINEERING TEST AND STANDARDIZATION OF TELEPHONE TELEGRAPH CARRIER
AD-431668 N64-21841 15-09

ERROR STATISTICS ON DATA TRANSMISSION OVER TELEPHONE CIRCUITS WITH RANDOM LINE NOISE INTERFERENCE
AD-603461 N64-30883 22-08

TELEPHONE CHANNEL MONITOR - TEST PROGRAM
SDL-1195 N64-31946 23-08

TELEPHONY
DATA TRANSMISSION - INTERROGATION SYSTEMS AND RADIOTELEPHONY
JPRS-26269 N64-28447 20-08

TELESCOPE
SA RADIO TELESCOPE
SATELLITE TRACKING INSTRUMENTS, LUN-3 AND SEMIAUTOMATIC TELESCOPE
JPRS-17775 N64-10719 02-08

SEMIAUTOMATIC TELESCOPE FOR SATELLITE TRACKING WITH PRECISE GUIDANCE UNDER MANUAL CONTROL
N64-10721 02-08

LASER RANGING SYSTEM - SIGHTING TELESCOPE, TRANSMITTER, RECEIVER OPTICS N64-12564 04-25

INTERFERENTIAL CALCULATION OF STABILIZED OBJECTIVE FOR TELESCOPIC PLANETARY EXPLORATION
N64-13449 05-23

METHODS, TELESCOPES, AND INSTRUMENTS FOR ASTRONOMY
JPRS-22696 N64-13676 04-01

ASTRONOMICAL TELESCOPE N64-13677 05-10

MIRROR REFLECTOR FOR TELESCOPE N64-13678 04-23

CONTROL SYSTEM FOR 2.6-METER TELESCOPE
N64-13679 05-06

PROCESSING OF MAIN MIRROR FOR TELESCOPE
N64-13680 05-17

CONTROL SYSTEM OF RM-700 TELESCOPE
N64-13681 05-06

AUTOMATIC CONTROL AND POINTING SYSTEM FOR AZIMUTHAL TELESCOPE N64-13682 05-06

AUTOMATIC COMPENSATION FOR DEFORMATION OF STELLAR TELESCOPES N64-13683 05-06

PHOTOELECTRIC METHOD STUDYING INSTABILITY OF STELLAR IMAGES N64-13684 05-23

AUTOMATIC CONTROL SYSTEM FOR TELESCOPES
N64-13685 05-20

CAMERA WITH OPTICAL COMPENSATOR FOR OBSERVING ARTIFICIAL EARTH SATELLITES N64-13686 05-23

AUTOMATIC ELECTRON POLARIMETER AND OTHER DEVICES
N64-13687 05-15

STELLAR PHOTOMETER AND SPECTROMETER FOR INFRARED REGION N64-13688 05-15

FABRY-PEROT STANDARD WITH IMAGE AMPLIFIER FOR OBSERVATION OF LOW EMISSION OBJECTS
N64-13689 05-15

TESTING PRECISE MIRRORS OF ASTRONOMICAL INSTRUMENTS WITH VACUUM CHAMBER
N64-13690 05-10

INTERFERENCE POLARIZATION FILTER FOR INVESTIGATION OF SUN IN K-LINE OF IONIZED CALCIUM
N64-13691 05-23

OBSERVATIONS OF STAR DECLINATIONS AND LATITUDE CHANGES USING LARGE ZENITH TELESCOPE
N64-16209 08-05

MARS OBSERVATION WITH STRATOSCOPE II TELESCOPE
N64-16675 08-13

HIGH RESOLUTION PHOTOGRAPHY OF SUNSPOT UMBRAS WITH STRATOSCOPE I TELESCOPE N64-16677 08-20

COMPOSITION OF MARS ATMOSPHERE, OBSERVED IN FIRST FLIGHT OF STRATOSCOPE II TELESCOPE
N64-16678 08-05

OPTICS - 43-INCH PRIMARY MIRROR AND TELESCOPE TESTING FOR LUNAR AND PLANETARY PHOTOGRAPHY
AFCRL-63-949 N64-18648 11-15

PERFORMANCE OF TELESCOPES, REMOTELY CONTROLLED TELESCOPE SYSTEM /RCTS/, SOLAR FLARE STUDIES AND CONSTRUCTION OF NEW OBSERVATORY FACILITIES
N64-19047 11-10

OPERATION OF STRATOSCOPE II BALLOON
NASA-CR-56309 N64-22468 15-32

OPTICAL PROPERTIES OF RITCHEY-CHRETIEN TELESCOPES
N64-23060 16-05

DIURNAL VARIATION OF COSMIC RAYS USING CROSSED TELESCOPE OBSERVATIONS N64-24442 17-20

OPTICAL EFFECTS OF HEAT TRANSFER BETWEEN TELESCOPE TUBES & AIR IN TUBE
LA-64-I N64-25587 17-05

STANDARD CUBICAL TELESCOPE FOR REGISTERING COSMIC RAYS N64-25929 18-15

AZIMUTHAL TELESCOPE FOR INVESTIGATION OF VARIATIONS OF COSMIC RAYS DEPENDENT ON DIRECTION OF PRIMARY RADIATION N64-25930 18-15

REFLECTING TELESCOPE AND PHOTOELECTRIC SPECTROPHOTOMETER FOR STUDY OF PLANETARY OPTICAL EMISSION AND FLARE ACTIVITY OF NEARBY STARS
ONR-14-63 N64-26488 18-20

FLAT FIELD, WIDE ANGLE, REFLECTING TELESCOPE FOR USE IN 8-14 MICRON WAVELENGTH RANGE OF INFRARED SPECTRUM
WRE-TN-CPD-79 N64-28127 20-15

SOLAR TELESCOPE OBSERVATIONS AND AEROBEE ROCKET STUDIES OF PLANETARY ATMOSPHERE
N64-28862 20-10

RADIO ASTRONOMICAL OBSERVATIONS OF VENUS USING TELESCOPE WITH VARIABLE PROFILE ANTENNA AND HIGH RESOLVING POWER
NRL-TRANS-936 N64-29560 21-05

TELESCOPIC OBSERVATIONS BY KITT PEAK NATIONAL OBSERVATORY N64-30808 22-10

RADIO ASTRONOMY - TELESCOPE POLAR AXIS, POLARIMETER, LUNAR EXPERIMENTS, AND RADIOMETER
RR-RS53 N64-32216 23-00

FULL-APERTURE PARABOLOID LUNAR AND PLANETARY TELESCOPE
NASA-CR-59164 N64-33678 24-15

TELETYPING
MINIMUM SIGNAL-TO-NOISE DENSITY RATIOS FOR TRANSMISSION OF TELETYPE AND SPEECH
SSD-TDR-63-215 N64-15825 07-01

DRIVING MECHANISM AND TRANSMITTING & RECEIVING SETS OF 60-PAGE TELETYPE - COMMUNICATION DEVICE
JPRS-23836 N64-18317 10-01

TELEVISION
LITERATURE REVIEW OF TELEVISION MICROSCOPY IN BIOLOGY AND MEDICINE
JPRS-18229 N64-10501 01-11

ATTACHMENT OF IMAGES AND ELIMINATION OF DISTORTION OF ARTIFICIAL EARTH SATELLITE TELEVISION TRANSMISSION N64-10995 02-21

OPTICAL PREPROCESSOR WITH INPUT FROM TELEVISION CAMERA APPLICABLE TO MINOS II LEARNING MACHINE FOR GRAPHICAL DATA PROCESSING
REPT.-13 N64-13614 05-23

RANGER BLOCK III SPACE FLIGHT OPERATIONS PLAN - TELEVISION PICTURES OF LUNAR SURFACE
NASA-CR-53036 N64-14745 06-32

TELEVISION, PHOTOGRAMMETRY, PHOTOMETRY, AND RADIOMETRY ADAPTABLE TO SPACE RECONNAISSANCE - LITERATURE SURVEY
NASA-CR-53045 N64-14890 06-08

CLOSED-CIRCUIT TELEVISION FOR AIRCRAFT LANDING
NASA-TN-D-2185 N64-15223 07-10

AUTOMATIC PICTURE TRANSMISSION GROUND STATION FOR REPRODUCTION OF TELEVISION PICTURES FROM METEOROLOGICAL SATELLITE
NASA-CR-53594 N64-18508 10-10

X-RAY TELEVISION IMAGING SYSTEM FOR INSPECTION OF FIBERGLASS REINFORCED PLASTIC MISSILE CASES
WAL-TR-142.5/2-3 N64-18611 11-11

X-RAY TELEVISION AND SCAN-CONVERSION IMAGE STORAGE SYSTEMS FOR STORAGE OF VIDEO SIGNALS ON MAGNETIC TAPES - TESTING ROCKET MOTOR CASES
WAL-TR-142.5/2-4 N64-18612 11-17

X-RAY SCAN TELEVISION SYSTEM FOR INSPECTION OF FIBERGLASS REINFORCED PLASTIC ROCKET MOTOR CASES
WAL-TR-142.5/2-6 N64-18613 11-17

TELEVISION X-RAY SYSTEM FOR INSPECTION OF FIBER-GLASS REINFORCED PLASTIC ROCKET MOTOR CASES
WAL-TR-142.5/2-7 N64-18614 11-17

TELEVISION X-RAY SYSTEM FOR INSPECTION OF FIBER-GLASS REINFORCED PLASTIC ROCKET MOTOR CASES
WAL-TR-142.5/2-7A N64-18615 11-17

EFFECTS OF TELEVISION AND DIRECT VIEWING ON REMOTE CONTROL OF MECHANICAL MANIPULATOR
AMRL-TDR-64-15 N64-18934 11-06

PATTERN RECOGNITION & DETECTION OF BANDWIDTH COMPRESSION OF LUNAR AND PLANETARY TELEVISION TRANSMISSION - MATHEMATICAL IMAGE ANALYSIS
NASA-CR-53738 N64-19353 12-08

CLOSED CIRCUIT TELEVISION INSTALLATIONS AND USE AT PARIS-ORLY AIRPORT N64-20722 13-08

PILOT PERFORMANCE DURING AIRCRAFT BLIND LANDINGS USING CLOSED CIRCUIT TELEVISION DISPLAY AS CONTROL DEVICE
NASA-TN-D-2252 N64-21267 14-08

TELEVISION PICTURES OF LUNAR SURFACE TAKEN DURING BLOCK III RANGER FLIGHTS
NASA-CR-56289 N64-22461 15-32

INDIRECT AURORAL PHOTOGRAPHY USING IMAGE ORTHICON CLOSED CIRCUIT TELEVISION SYSTEM
NASA-RP-255 N64-26076 18-12

CONVERTER TO TEST TELEVISION INTERMEDIATE FREQUENCY SOUND AMPLIFIER
BI-031 N64-26564 18-09

LUNAR TELEVISION CAMERA MANIPULATOR - ENVIRONMENT, DESIGN, SPECIFICATIONS, TESTS, AND THERMAL ANALYSIS
NASA-CR-56790 N64-27378 19-15

HIGH RESOLUTION SCANNING DEVICE FOR PHOTOGRAPHS TO GIVE TELEVISION SIGNALS
RB-64-33 N64-28465 20-08

TELEVISION CAMERA TUBE FOR ASTRONOMICAL IMAGE INTEGRATION SYSTEM N64-30064 21-15

TELEVISION EQUIPMENT DESIGNED TO OPERATE UNDER SPACE ENVIRONMENTAL CONDITIONS
FTD-TT-64-10/1 N64-30812 22-08

IMAGE ORTHICON AND VIDICON TELEVISION CAMERA TUBES
NASA-TT-F-9103 N64-31330 22-15

AREA SIZE DISTRIBUTIONS OF TELEVISION STILL PICTURES BY ELEMENTS LINEARLY QUANTIZED TO 8 AMPLITUDE LEVELS
AFCRL-64-478 N64-31428 23-15

TELEVISION BANDWIDTH EFFECTS ON TARGET IDENTIFICATION
NMC-TM-64-2 N64-31640 23-08

RANGER VII LUNAR PHOTOGRAPHS, CAMERA A SERIES - LUNAR SURFACE CLOSEUP PICTURES
NASA-SP-61 N64-31723 23-29

RANDOM NOISE OCCURRENCE AND PASSAGE THROUGH AMPLIFICATION CHANNEL IN TELEVISION SYSTEMS
FTD-TT-62-1661/1&2&4 N64-32233 23-08

CONTINUOUS WAVE RADAR TRANSMITTER FOR SPACECRAFT TRACKING AND COMMANDING, AND RECEPTION OF TELEMETRY AND TELEVISION SIGNALS
NASA-CR-58801 N64-32997 24-08

PASSIVE SATELLITE FOR EUROPEAN TELEVISION
NASA-TT-F-9138 N64-33403 24-32

TELEVISION EQUIPMENT
FLIGHT TESTS OF REMOTE AIRBORNE TELEVISION DISPLAY OF GROUND RADAR COVERAGE VIA TACAN - RATAC
ASD-TDR-63-730 N64-12174 03-08

USSR UNDERWATER TELEVISION EQUIPMENT AND COSMIC RAY STUDY
JPRS-23392 N64-15713 07-01

UNDERWATER TELEVISION MOUNT WITH REMOTE CONTROL MANIPULATOR N64-15714 07-15

SPACE TELEVISION - AN ANNOTATED BIBLIOGRAPHY
LMSC-3-79-61-1 N64-15758 07-08

TRACKING, TELEVISION, AND INFRARED RADIOMETER SUB-SYSTEMS OF TIROS SATELLITES
NASA-TM-X-54565 N64-15859 07-32

NONDESTRUCTIVE INSPECTION & TESTING OF FIBERGLASS REINFORCED PLASTIC MISSILE CASES & STRUCTURAL MATERIALS BY USE OF X-RAY TELEVISION EQUIPMENT
WAL-TR-142.5/2-8 N64-20319 13-17

TELEVISION UNIT WITH MEMORY TUBE FOR REPRODUCING PRINTED MATERIAL N64-23549 16-15

TELLURIC FIELD
BAY-FORM DISTURBANCES AND STORMS IN TELLURIC FIELD
JPRS-24049 N64-17833 09-12

TELLURIC LINE
TELLUROMETRIC MEASUREMENTS FOR GEODETIC REFERENCE SYSTEM, AT MEPPEN AND GOETTINGEN, WEST GERMANY N64-16207 08-15

TELLURIDE
S CADMIUM TELLURIDE

TELLURIUM
NONFERROUS METALLURGY - TELLURIUM AND POWDERED ALUMINUM
JPRS-17727 N64-11826 03-18

QUALITY IMPROVEMENT OF INDUSTRIAL-GRADE TELLURIUM N64-11827 03-18

PHASE RELATIONS AND ELECTRICAL & THERMAL PROPERTIES IN TIN-TELLURIUM-ANTIMONY AND TIN-TELLURIUM-BISMUTH PSEUDOBINARY SYSTEMS
DMS MASTER*S 63-2 N64-13395 04-19

TECHNIQUES FOR PREPARATION OF SINGLE CRYSTAL TELLURIUM
MEMO-2900 N64-14482 06-25

POLYVINYL ALCOHOL, SELENIUM AND TELLURIUM PAPER ELECTROCHROMATOGRAPHY, AND XYLENE SEPARATION
JPRS-25070 N64-22734 16-01

EMISSION PROCESS IN II-VI COMPOUND - CADMIUM TELLURIDE

AD-601674 N64-24940 17-25

DISTRIBUTION CHARACTERISTICS OF SELENIUM AND TELLURIUM IN PURE PYRITE ORE DEPOSITS N64-28044 20-07

ELECTRICAL AND INFRARED PROPERTIES OF GLASS IN BISMUTH OXIDE-TELLURIUM OXIDE SYSTEM NASA-TM-X-53110 N64-33869 24-25

TELSTAR SATELLITE
TELSTAR SATELLITE DESIGN, CONSTRUCTION, GROUND FACILITIES, AND USES NASA-SP-32, VOL. 1 N64-10868 02-01

TELSTAR SATELLITE EXPERIMENT N64-10869 02-32

RESEARCH BACKGROUND OF TELSTAR EXPERIMENT N64-10870 02-32

TELSTAR SYSTEM - AN ACTIVE COMMUNICATIONS SATELLITE AND ITS GROUND FACILITIES N64-10871 02-32

GENERAL DESCRIPTION OF TELSTAR SATELLITE N64-10872 02-32

MICROWAVE COMMUNICATIONS REPEATER OF TELSTAR N64-10873 02-32

TELSTAR SATELLITE ANTENNA SYSTEM FOR MICROWAVE AND BEACON N64-10874 02-30

RADIATION EXPERIMENTS OF TELSTAR SATELLITE N64-10875 02-28

POWER SUPPLY SYSTEM OF TELSTAR SATELLITE N64-10876 02-06

TELSTAR SATELLITE GENERAL STRUCTURE AND THERMAL DESIGN CONSIDERATIONS N64-10877 02-30

TELSTAR SATELLITE TEST AND EVALUATION PROGRAM N64-10878 02-30

TELSTAR SATELLITE COMMAND AND TELEMETRY SYSTEMS N64-10879 02-08

TELSTAR SATELLITE GROUND TRANSMITTER AND RECEIVER N64-10880 02-10

DESIGN OF WIDEBAND FREQUENCY MODULATED DEMODULATOR USED AT ANDOVER FOR TELSTAR SATELLITE COMMUNICATIONS TESTS N64-10881 02-08

TELSTAR SATELLITE
NASA-SP-32, VOL. 2 N64-10882 02-01

HOLMDEL GROUND STATION PARTICIPATION IN TELSTAR SATELLITE PROJECT N64-10892 02-10

PRELAUNCH TESTING AND TEST FACILITIES AT CAPE CANAVERAL FOR LAUNCHING OF TELSTAR SATELLITE N64-10893 02-31

ORBITAL ELEMENT, POWER LEVEL OF SATELLITE SIGNAL, & ELECTRICAL CIRCUIT BEHAVIOR OF TELSTAR SATELLITE IN SPACE ENVIRONMENT N64-10894 02-29

ELECTRON AND PROTON DISTRIBUTION MAP FROM TELSTAR SATELLITE RADIATION EXPERIMENT DATA N64-10895 02-28

COMMUNICATIONS TESTING OF TELSTAR SATELLITE AT ANDOVER GROUND STATION N64-10896 02-08

COMMAND SYSTEM MALFUNCTION OF TELSTAR SATELLITE DUE TO TRANSISTOR SURFACE DAMAGE IN REDUNDANT COMMAND DECODER N64-10897 02-08

DISCUSSION OF TELSTAR SATELLITE COMMUNICATION COMPONENTS AND SYSTEMS NASA-SP-32, VOL. 3 N64-11079 02-01

DESIGN, PERFORMANCE, AND RELIABILITY OF COMPONENTS FOR TELSTAR SATELLITE FROM SUBMARINE CABLE PROGRAM N64-11080 02-32

DESIGN, CONSTRUCTION, AND EVALUATION OF RELIABLE COMPONENTS FOR ELECTRONIC EQUIPMENT IN SATELLITE LAUNCHING AND ORBITAL ENVIRONMENT - TELSTAR N64-11081 02-06

NICKEL-CADMIUM CELLS FOR SPACECRAFT BATTERY - TELSTAR SATELLITE N64-11082 02-06

AMPLIFIER DESIGN OF TRAVELING-WAVE TUBE FOR TELSTAR SATELLITE N64-11083 02-09

DESIGN AND CONSTRUCTION OF TELSTAR SATELLITE ELECTRONICS PACKAGE FOR RELIABILITY N64-11084 02-09

POWER SOURCE FOR TELSTAR SATELLITE FROM SOLAR GENERATING PLANT N64-11085 02-06

YTTRIUM-IRON GARNET CRYSTAL POWER LIMITER FOR TELSTAR SATELLITE COMMUNICATIONS REPEATER N64-11086 02-06

GROUND STATION HIGH-POWER TRAVELING-WAVE TUBE - TELSTAR SATELLITE COMMUNICATIONS N64-11087 02-09

RUBY TRAVELING-WAVE MASERS FOR TELSTAR SATELLITE COMMUNICATION SYSTEMS N64-11088 02-09

TRAVELING WAVE MASER FOR SATELLITE COMMUNICATION GROUND STATION RECEIVER - TELSTAR SATELLITE N64-11089 02-09

TELSTAR SATELLITE TELEMETRY AND COMMAND SYSTEMS N64-16156 08-08

TEMPERATURE
SA ATMOSPHERIC TEMPERATURE
SA CRYOGENIC TEMPERATURE
SA ELECTRON TEMPERATURE
SA SURFACE TEMPERATURE
EMANATION OF THORON FROM SINTERED URANIUM DIOXIDE POWDER AND PLATE AS FUNCTION OF TEMPERATURE WAPD-276 N64-10365 01-23

TEMPERATURE DEPENDENCE OF HEMISPHERICAL EMITTANCE OF METAL AND ALLOY STRIPS IN 100- TO 1200-DEG C RANGE USING BLACKBODY VACUUM CHAMBER N64-10961 02-13

WELDING TESTS OF INCONEL AT ROOM TEMPERATURE BY AGE CONDITION METHOD A249 N64-11927 03-18

EVALUATION OF INCONEL WELDING OF AGE HARDENABLE NICKEL-CHROMIUM ALLOY AT ROOM TEMPERATURE A250 N64-11928 03-18

INFLUENCE OF END GROUPS ON GLASS TEMPERATURE & FLOW TEMPERATURE OF MACROMOLECULAR GLASSES RAE TRANS-1045 N64-12905 04-19

TEMPERATURE REACTION OF SKIN DURING LOW INTENSITY MICROWAVE IRRADIATION JPRS-23287 N64-15335 07-16

DOUBLE SHOCK TUBE METHOD FOR SIMULTANEOUS DETERMINATION OF HIGH PRESSURE AND TEMPERATURE OF ENCLOSED GAS SSD-TDR-63-368 N64-16129 08-11

EFFECT OF TEMPERATURE RATIO ON HEAT TRANSFER TIL/T-5476 N64-16251 08-13

EQUATIONS AND TABLES OF ELECTROMOTIVE FORCE VERSUS TEMPERATURE FOR THERMOCOUPLE REFERENCE JUNCTION AEDC-TDR-64-55 N64-17456 09-13

DETERMINATION OF TEMPERATURE OF PULMONARY CAPILLARY BLOOD N64-17932 10-14

LOCALIZED THERMAL EFFECTS IN SILICON POWER TRANSISTORS FOR FAILURE MODE STUDY N64-20984 14-09

EFFECT OF EARTH SHADOW ON TEMPERATURE OF IRON METEOROID BEFORE ENTERING EARTH ATMOSPHERE NASA-RP-258 N64-26078 18-05

EXTENSION OF OPERATING TEMPERATURE CAPABILITY OF

FISSION COUNTERS AND DIRECT CURRENT IONIZATION CHAMBERS - METAL-TO-CERAMIC VACUUM SEALS
GEMP-298 N64-26841 18-15

TEMPERATURE OF INTERSTELLAR MATERIAL USING SPECTROSCOPIC METHOD N64-28389 20-28

CREEP ANALYSIS OF NONFERROUS METALS AT ROOM TEMPERATURE N64-28498 20-33

TEMPERATURE RATIOS FOR AIRCRAFT NUCLEAR PROPULSION REACTORS AND POSTULATED TEMPERATURES FOR NUCLEAR REACTOR IN ROCKET ENGINE - REACTOR THERMAL DESIGN PROBLEMS
NASA-CR-52956 N64-29789 21-27

ELECTROMOTIVE FORCE IN EXPLODING CONDUCTOR DUE TO SUDDEN FAST TEMPERATURE INCREASE
AD-602913 N64-30142 21-13

FUNCTION RELATING ABSOLUTE TEMPERATURE TO DC BRIDGE RESISTANCE RATIO, & THERMISTOR TEMPERATURE COEFFICIENT OF RESISTANCE
PIBAL-696 N64-30589 22-15

IONOSPHERIC TEMPERATURE FROM FIREFLY PROJECT PHOTOGRAPHY OF UPPER ATMOSPHERE EXPLOSIONS N64-31396 23-12

ALLOY EFFECTS ON ROOM TEMPERATURE TENSILE PROPERTIES AND MICROSTRUCTURE OF TUNGSTEN-FIBER REINFORCED COPPER ALLOY COMPOSITES
NASA-RP-311 N64-31442 23-17

SOLID ROCKET MOTOR NOZZLE ENVIRONMENT IN COLD FLOW MODELING AND MOTOR FIRINGS
U-2709 N64-31926 23-26

RELATIVE POPULATIONS OF VIBRATION LEVEL AND ROTATIONAL TEMPERATURE OF NITROGEN RADICAL SYSTEM N64-32715 24-12

INFLUENCE OF RESIDUAL GAS ATMOSPHERE IN SPACE CHAMBERS ON NEUTRAL EFFLUX AND CRITICAL TEMPERATURE OF TUNGSTEN IONIZERS
AIAA PAPER 64-693 N64-32724 24-27

ALUMINUM AND SODIUM NITRATE EMITTER USED WITH MONOCHROMATOR-PHOTOMETER FOR MEASURING IONOSPHERIC TEMPERATURE
NASA-TT-F-8977 N64-33384 24-12

TEMPERATURE COMPENSATION
TEMPERATURE COMPENSATION TECHNIQUES FOR QUARTZ CRYSTAL OSCILLATORS
AD-417697 N64-14092 05-09

LOW INERTIA HOT-WIRE RESISTANCE ANEMOMETER WITH TEMPERATURE COMPENSATION N64-20224 13-15

FREQUENCY TEMPERATURE COMPENSATION TECHNIQUES FOR QUARTZ CRYSTAL OSCILLATOR
QPR-2 N64-24929 17-25

TIGHTER TOLERANCE CRYSTAL UNITS HAVING TEMPERATURE COMPENSATION AND FREQUENCY ADJUSTMENT FEATURES
REPT.-3 N64-29679 21-09

FREQUENCY TEMPERATURE COMPENSATION IN SMALL QUARTZ CRYSTAL OSCILLATOR
PUBL.-3032-64 N64-30552 22-09

SOLID STATE LOW-VOLTAGE REGULATOR WITH TEMPERATURE STABILITY USING THERMISTOR COMPENSATION, FORWARD-BIASED DIODES, AND MATCHED SILICON TRANSISTORS
HDL-TR-1222 N64-30619 22-15

TEMPERATURE CONTROL
SA CRYOSTAT
CF INSULATION
TEMPERATURE CONTROL OF MARINER II SPACECRAFT WITH DATA FOR MONITORED COMPONENTS
NASA-CR-52463 N64-10338 01-32

EMITTANCE MEASUREMENT TECHNIQUES AND REQUIRED PROPERTIES FOR SPACECRAFT THERMAL CONTROL SURFACES N64-10943 02-13

APPARATUS FOR MEASURING EMITTANCE AND ABSORPTIVITY OF SATELLITE TEMPERATURE CONTROL SURFACES N64-10944 02-13

DEVICE FOR MEASURING TOTAL HEMISPHERICAL EMITTANCE OF MATERIALS FOR ORBITING ASTRONOMICAL OBSERVATORY SATELLITE THERMAL CONTROL SURFACE N64-10950 02-15

SOLAR ABSORPTANCE, EMITTANCE, & TRANSMITTANCE OF THERMAL CONTROL COATING FOR SPACECRAFT N64-10953 02-13

EMITTANCE OF CALORIMETER DISC SURFACES COATED WITH PLATINUM BLACK UNDER CONTROL TEMPERATURE CYCLING
NASA-CR-55073 N64-12156 03-13

THERMAL CONTROL IN SPACE ENVIRONMENT - DESIGN AND RELIABILITY CONSIDERATIONS
NASA-CR-55279 N64-14180 06-16

MOVABLE SHUTTERS FOR TEMPERATURE CONTROL ON SPACECRAFT
NASA-CR-53046 N64-14847 06-13

AUTOMATIC ELECTRONIC MULTIPOINT INSTRUMENT FOR CONTROLLING AND REGULATING TEMPERATURE
FTD-TT-63-430/1&2 N64-16420 08-15

LOW POWER TEMPERATURE CONTROL OF QUARTZ CRYSTALS
QR-1 N64-16955 09-06

APPLICATION OF THERMOELECTRIC SYSTEM FOR HEATING, REFRIGERATION, TEMPERATURE CONTROL, AND DISTILLATION N64-19382 12-06

OVENS FOR MAINTAINING QUARTZ CRYSTAL TEMPERATURE DURING ENVIRONMENTAL TEMPERATURE EXTREMES
QR-3 N64-20131 13-13

THERMAL CONTROL COATINGS WITH VARIABLE REFLECTIVITIES
REPT.-63-114CX N64-20575 13-13

CALORIMETRIC TEMPERATURE MEASUREMENT OF HEMISPHERICAL THERMAL EMISSION OF SPACECRAFT TEMPERATURE CONTROL SURFACES AT ROOM TEMPERATURE
NASA-CR-56037 N64-20604 13-13

TEMPERATURE CONTROL SYSTEM FOR MARS ATMOSPHERE ENTRY VEHICLE
NASA-CR-56178 N64-20743 13-13

THERMODYNAMIC SYSTEM FOR TEMPERATURE CONTROL OF HEAT SINKS IN SPACE SIMULATION CHAMBERS
AEDC-TDR-64-121 N64-21718 15-13

RADIATION THERMOMETER FOR CONTROLLING AND REGULATING FURNACE TEMPERATURE DURING METAL ANNEALING
FTD-TT-63-64/1&2 N64-21943 15-15

VENTILATION OF AIRCRAFT CREW FLIGHT CLOTHING - TEMPERATURE REGULATION
FTD-TT-63-774/1&2 N64-22180 15-16

TEMPERATURE CONTROL ENGINEERING OF NUCLEAR-ELECTRIC SPACECRAFT
ARS PAPER-2392-62 N64-22465 15-27

HUMAN BODY TEMPERATURE CONTROL AND MECHANISM OF BIOLOGICAL SYNTHESIS OF CHEMICAL COMPOUNDS
NASA-CR-56293 N64-22470 15-14

BODY TEMPERATURE REGULATORY SYSTEM OF WHITE RATS BEFORE AND AFTER COLD ADAPTATION N64-22879 16-16

HYBRID MODULE - THERMOELECTRIC TEMPERATURE CONTROL FOR QUARTZ CRYSTALS AND CRYSTAL OSCILLATORS
REPT.-6 N64-23167 16-25

AUTOMATIC CONTROL OF NONSTEADY ENGINE WITH ASTATIC TEMPERATURE REGULATOR N64-23593 16-04

NITROGEN-FIXATION, CHLOROPHYLL, AND TEMPERATURE CONTROL STUDIES IN ALGAE AND MICROORGANISMS
FTD-TT-63-1016/1&2 N64-23655 16-16

AUTOMATIC TEMPERATURE CONTROL SYSTEM FOR

MICROORGANISM CULTURES N64-23658 16-16

TEMPERATURE CONTROL SYSTEMS FOR IRRADIATION EXPERIMENTS IN TEST REACTORS
NRL-1486 N64-25088 17-23

TEMPERATURE CONTROL AND INORGANIC OPTICAL COATINGS
N64-27019 19-17

FEASIBILITY OF BARIUM TITANATE IN SATELLITE TEMPERATURE CONTROL SYSTEMS
NASA-CR-56412 N64-27387 19-19

SPACECRAFT TEMPERATURE CONTROL SYSTEM WITH THERMOSTATIC FINS - SPACECRAFT ELECTRONIC EQUIPMENT
NASA-CR-91 N64-27758 19-30

SPACE-STABLE THERMAL CONTROL COATINGS WITH LOW SOLAR ABSORPTANCE-EMITTANCE RATIOS
NASA-CR-58706 N64-29507 21-19

THERMAL CONTROL COATINGS FOR SPACE ENVIRONMENT
NASA-CR-58814 N64-30524 22-17

SOLID STATE LOW-VOLTAGE REGULATOR WITH TEMPERATURE STABILITY USING THERMISTOR COMPENSATION, FORWARD-BIASED DIODES, AND MATCHED SILICON TRANSISTORS
HDL-TR-1222 N64-30619 22-15

TEMPERATURE DETERMINATION

LUNAR TEMPERATURE DETERMINATIONS, HIGH LATITUDE NEUTRON SPECTRUM, GEOMAGNETIC MICROPULSATIONS, AND GEOPHYSICAL EFFECTS OF NUCLEAR TESTS
N64-20503 13-12

SURFACE TEMPERATURE VARIATIONS DURING LUNAR NIGHT MEASURED WITH PHOTOMETER INCORPORATING MERCURY-DOPED GERMANIUM PHOTOCONDUCTOR N64-20608 13-05

LUNAR SURFACE TEMPERATURE DUE TO REFLECTION OF COSMIC RADIO EMISSION
NASA-TT-F-8964 N64-30857 22-28

TEMPERATURE DIFFERENCE

HEAT TRANSFER AT HIGH TEMPERATURE DIFFERENCE IN TURBULENT AIRFLOW BETWEEN ROTATING CYLINDER AND STATIONARY OUTER CYLINDER
AFOSR-3207 N64-12847 04-13

TEMPERATURE DISTRIBUTION

TEMPERATURE DISTRIBUTION IN PERFORATED CIRCLE FOR HEAT FLOW DETERMINATION OF TUBE-IN-SHELL FUEL ELEMENT
AECL-1835 N64-10379 01-13

WATER TEMPERATURE DISTRIBUTION, TEMPERATURE ANOMALY EFFECT ON ARCTIC ICE COVER, BAROCLINIC DEPTH, METEOROLOGY & HYDROLOGY BIBLIOGRAPHY
JPRS-20398 N64-10843 02-21

HEAT EXCHANGE BETWEEN GAS-TURBINE DISK AND COOLING SCREEN WITH ARBITRARY TEMPERATURE DISTRIBUTION
N64-11970 03-13

BOUNDARY LAYER WIND VELOCITY AND ASSOCIATED TEMPERATURE DISTRIBUTIONS TO 1400-FEET IN TEXAS
AFCRL-63-738 N64-12608 04-09

THEORETICAL COMPUTATION OF AVERAGE VERTICAL TEMPERATURE DISTRIBUTION IN MARS ATMOSPHERE
NASA-CR-52414 N64-12950 04-28

INFLUENCE OF NONUNIFORM TEMPERATURE DISTRIBUTION IN DOPPLER EFFECT CALCULATIONS
EUR-401.E N64-14163 04-23

NUCLEAR HEATED THERMIONIC CONVERTER TEST TEMPERATURE DISTRIBUTION STUDY
EUR-485.E N64-14738 06-06

SPACE SUIT DESIGN FACTORS OF TEMPERATURE VARIATION WITH TIME, TEMPERATURE DISTRIBUTION, AND FLUID CIRCULATION FOR TEMPERATURE EQUALIZATION
AMRL-TDR-63-102 N64-15093 07-16

CALCULATION OF TEMPERATURE DISTRIBUTION AND THERMAL STRESS IN AIR COOLED STEAM TURBINE ROTOR
FTD-TT-62-766/1&2&4 N64-16342 08-27

HISTORIES OF PROPELLANT DROPLET TEMPERATURE, EVAPORATION RATE, AND TRAJECTORY UNDER HIGH PRESSURE AND HIGH TEMPERATURE
NASA-RP-138 N64-16688 08-23

WIND AND TEMPERATURE DISTRIBUTIONS OBSERVED AT 62 METERS ABOVE EARTH
ERDA-113 N64-17469 09-21

RADIATIVE EQUILIBRIUM DISTRIBUTION OF TEMPERATURE IN VENUS ATMOSPHERE AND AVERAGE ANNUAL RADIATION BUDGET AT TOP OF MARTIAN ATMOSPHERE
NASA-CR-53285 N64-17593 09-29

TEMPERATURE DISTRIBUTION IN UPPER ATMOSPHERE OF VENUS
NASA-TM-X-51525 N64-17795 09-29

THEORY OF OPTIMUM CONTROL IN THERMAL DISTRIBUTION PROCESSES
JPRS-24072 N64-17974 10-20

SOLUTIONS OF NAVIER-STOKES EQUATIONS FOR TEMPERATURE DISTRIBUTIONS IN STEADILY ROTATED CYLINDRICAL VORTEX TUBE
AFOSR-TN-60-1227 N64-18049 10-11

TEMPERATURE DISTRIBUTION IN AMMONIUM PERCHLORATE WHEN BURNING
TIL/T-5475 N64-18141 10-26

LAMINAR HEAT TRANSFER OVER MELTING PLATE - MODIFIED LEVEQUE PROBLEM
CRREL-125 N64-18849 11-13

TEMPERATURE DISTRIBUTION IN SYSTEM OF SOLID BODIES IN CONTACT THROUGH THIN LAYER
RSIC-148 N64-19121 11-28

DENSITY, TEMPERATURE, AND PRESSURE DISTRIBUTION OF WIND FROM METEOROLOGICAL ROCKET MEASUREMENTS
AFCRL-64-124 N64-19671 12-21

COMPARISON BETWEEN CODES FOR CALCULATION OF THERMAL SPECTRA IN HOMOGENEOUS MEDIA
EUR-1605.E N64-20869 14-13

TIME RATE OF TEMPERATURE CHANGE IN GLASS DEWAR SYSTEM - FERROMAGNETIC RESONANCE IN IRON GARNETS
AFCRL-64-17 N64-22565 15-13

DISTRIBUTION OF TEMPERATURE FLUCTUATION WITH HEIGHT IN ATMOSPHERIC GROUND LAYER
N64-23169 16-12

TEMPERATURE DISTRIBUTION AND THERMAL STRESSES IN SHIP STRUCTURES
SSC-152 N64-24935 17-13

TEMPERATURE FIELD IN UPPER ATMOSPHERIC LAYERS OVER USSR
RR-TR-64-3 N64-25216 17-12

BASE PRESSURE AND AXIAL DISTRIBUTIONS OF DENSITY AND TEMPERATURE IN LAMINAR HYPERSONIC NEAR WAKES
R64SD35 N64-25532 17-11

TEMPORAL DISTRIBUTION OF EXTENSIVE AIR SHOWERS OF COSMIC RAYS N64-25944 18-20

TEMPERATURE DISTRIBUTION ON CONDUCTING CYLINDRICAL SHELLS INCLUDING EFFECTS OF THERMAL RADIATION
NASA-RP-264 N64-26080 18-13

CALCULATIONS OF TEMPERATURE DISTRIBUTION & HEAT TRANSFER IN NUCLEAR ROCKET ENGINE
NSP-63-76 N64-26469 18-13

TEMPERATURE AND ELECTRON DENSITY COMPUTATIONS FOR UPPER ATMOSPHERE OF JUPITER USING TWO EXTREME ATMOSPHERE MODELS
NASA-TM-X-51917 N64-28762 20-29

TEMPERATURE DISTRIBUTION IN HOLLOW CYLINDRICAL MANOMETER COLUMN WITH HEAT SOURCE AT LOWER END - MATHEMATICAL MODEL
IS-805 N64-28781 20-13

SOLUTION OF HEAT DISTRIBUTION EQUATIONS BY METHOD OF ZONE
NASA-CR-56800 N64-29551 21-13

MONTE CARLO SOLUTION OF RADIANT ENERGY TRANSFER AND TEMPERATURE IN NONGREY NONISOTHERMAL GAS BETWEEN PARALLEL BLACK WALLS
NASA-RP-317 N64-31208 22-13

WALL TEMPERATURE DISTRIBUTION FOR LAMINAR FORCED CONVECTION IN RECTANGULAR CHANNELS WITH UNEQUAL HEATING ON ADJACENT SIDES
NASA-RP-316 N64-31444 23-13

EFFECT OF TEMPERATURE VARIATIONS, THICKNESS OF SUPERCONDUCTING LAYERS, AND LEAD, TIN, & INDIUM ON FLUX DECAY DUE TO ALPHA PARTICLE IRRADIATION
LNF-64/35 N64-32004 23-25

TEMPERATURE STRATIFICATION IN LIQUIDS CONTAINED IN HEATED VESSELS - STRATIFIED LAYER FLOW MODEL
N64-32882 24-13

SHOCK WAVE DISTURBANCES BY SOUND WAVES AND TEMPERATURE FLUCTUATIONS
ARC-CP-194 N64-32944 24-23

TEMPERATURE EFFECT
SA HEAT EFFECT
DEFECTS IN SILICIDE COATING ON MOLYBDENUM AS FUNCTION OF STRESS CHANGE WITH TEMPERATURE VARIATION
JPRS-21758 N64-10122 01-33

STRUCTURE & COMPOSITION OF STRATOSPHERE AND MESOSPHERE - EARTH TEMPERATURE, AVIATION EFFECT, AND INDIVIDUAL PECULIARITIES
JPRS-21978 N64-10355 01-12

MIGRATION OF BOTH COMPONENTS OF TUNGSTEN-MOLYBDENUM ALLOYS WITH TEMPERATURE
N64-11018 02-18

TEMPERATURE DEPENDENCE OF CIRCUITS USING TWO EMITTER-COUPLED TRANSISTORS
EUR-370.E N64-11367 02-09

SECOND-ORDER TRANSITIONS IN SOLID POLYMERS, AND TEMPERATURE EFFECT ON TRANSITION PHENOMENA
RAE-TRANS-1046 N64-11413 02-28

TENSILE AND IMPACT PROPERTIES OF STRUCTURAL MATERIALS FROM 20- TO 300-DEG K
NBS-MONOGRAPH-63 N64-12003 03-18

HIGH TEMPERATURE OXIDATIVE DEGRADATION OF PHENOL-FORMALDEHYDE POLYCONDENSATES
RR-46 N64-12122 03-07

RECOVERY BEHAVIOR OF COLD-WORKED METALS AT VARYING TEMPERATURES AND STRESSES
ASD-TDR-62-984 N64-12182 03-18

TEMPERATURE & MAGNETIZATION INFLUENCE IN SELECTIVE ABSORPTION AND FLUORESCENCE SPECTRA
E-T-G-63-6 N64-12199 03-23

TEMPERATURE AND PRESSURE EFFECT ON CHROMIUM IONS IN RUBY AND ALEXANDRITE AND NEODYMIUM IONS IN HYDRATE OF PRASEODYMIUM NEODYMIUM NITRATE
E-T-G-63-9 N64-12200 03-25

PHYSICAL MECHANISMS CAUSING RESISTANCE TO CHANGE WITH TIME AND TEMPERATURE - FAILURE THEORY
RADC-TDR-63-449 N64-12212 03-18

TEMPERATURE EFFECT ON DELAYED FRACTURE OF ALUMINUM ALLOY IN PRESENCE OF LIQUID ZINC AMALGAM
FA-R-1695 N64-12652 04-18

STRESSES & DISPLACEMENTS IN ELASTIC-PLASTIC SHELLS OF REVOLUTION WITH TEMPERATURE-DEPENDENT PROPERTIES
LMSC-6-90-62-123 N64-13325 04-34

THERMOCONDUCTIVITY OF GASES & LIQUIDS OVER RANGE OF TEMPERATURES AND PRESSURES - SQUID PROJECT
N64-13482 05-24

EFFECT OF EXPOSURE TO LOW TEMPERATURE ON BLOOD CLEARANCE OF CARBON & BACTERIA IN MICE
AAL-TDR-63-1 N64-13629 04-16

LOW TEMPERATURE EFFECT ON ISOLATED HEARTS OF GROUND SQUIRRELS
AAL-TDR-63-4 N64-13630 05-16

TEMPERATURE DEPENDENCE OF BACTERIOVIRIDIN LUMINESCENT INTENSITY IN PHOTOSYNTHETIC BACTERIA
JPRS-23054 N64-14529 04-16

GAS & CRYOSURFACE TEMPERATURE EFFECTS ON CAPTURE COEFFICIENTS IN CARBON DIOXIDE
AEDC-TDR-63-251 N64-15066 07-23

TEMPERATURE DEPENDENCE OF SPECTRAL LINE ABSORPTION OF CHROMIUM IONS IN RUBIES
SSD-TDR-63-417 N64-15121 07-23

THERMAL EFFECTS OF SHOCKWAVE TURBULENT BOUNDARY LAYER INTERACTION N64-15641 07-13

EFFECT OF WATER TEMPERATURES OVER ARABIAN SEA ON ONSET AND PROPERTIES OF MONSOON CURRENT
N64-16309 08-21

BIBLIOGRAPHY ON HIGH TEMPERATURE CHEMICAL REACTIONS
REPT.-10 N64-16555 08-07

EFFECT OF TEMPERATURE AND STRAIN RATE ON YIELD AND FIELD STRESSES IN NIOBIUM
ATN-64/9236/-6 N64-16596 08-25

INFLUENCE OF ALLOYING ADDITIONS ON TEMPERATURE DEPENDENCE OF ELASTIC MODULUS IN NICKEL & NICHROME ALLOYS N64-17059 09-18

HIGH TEMPERATURE MECHANICAL PROPERTIES OF FOAM-IN-PLACE SANDWICH CONSTRUCTION
A485 N64-17143 09-19

TEMPERATURE EFFECT ON VISCOSITY AND FILM THICKNESS OF EC776SR DIP APPLIED TO ALUMINUM PANELS
A486 N64-17144 09-19

HIGH TEMPERATURE VAPOR PHASE THERMODYNAMICS OF LIGHT METAL COMPOUNDS
C-64362, NO. 8 N64-17459 09-13

TEMPERATURE EFFECTS ON REMANENCE OF COMMERCIALLY PRODUCED PERMANENT MAGNETS
ASD-TDR-63-500 N64-17463 09-23

VIBRATING SAMPLE MAGNETOMETER CAPABLE OF MEASURING SMALL SAMPLE MAGNETIZATION AS FUNCTION OF TEMPERATURE
AFCRL-64-13 N64-19139 11-15

DIFFUSER CONFIGURATION FOR HIGH TEMPERATURE HYPERSONIC WIND TUNNEL
FDL-TDR-64-4 N64-19632 12-02

HIGH TEMPERATURE THERMOPHYSICS - LIQUID METALS, GASEOUS HEAT TRANSFER, AND PLASMA GENERATORS
FTD-TT-63-1090/1 N64-19755 12-23

EFFECTS OF RADIATION & HIGH TEMPERATURE ON CERAMIC BONDED FILM LUBRICANT MATERIALS
FTDM-3053 N64-20049 13-17

COMPRESSIVE YIELD OF ALUMINUM ALLOY PLATE SUBJECTED TO DUPLEX THERMAL EXPOSURE
FTDM-3152 N64-20055 13-18

THERMAL TRANSIENTS RESULTING FROM INSTANTANEOUS HEAT SOURCES IN SOLIDS WITH TEMPERATURE DEPENDENT THERMAL PROPERTIES
D1-82-0310 N64-20624 13-13

TEMPERATURE SENSITIVITY OF SEMICONDUCTOR FAILURE RATES N64-20970 14-20

FREQUENCY AND TEMPERATURE RESPONSE OF POLARIZATION OF THIN SINGLE CRYSTAL BARIUM TITANATE
TR-188 N64-22005 15-23

TEMPERATURE EFFECT ON FRACTURE STRENGTH OF

TITANIUM-ALUMINUM-VANADIUM ALLOY SHEET
SM-44640 N64-22973 16-18

TRUE-STRESS CURVES APPLIED TO VARIOUS TEMPERATURE CONDITIONS OF DEFORMATION
FTD-TT-63-768/1&2&4 N64-23310 16-33

MATHEMATICAL ANALYSIS OF THERMODYNAMIC EQUATIONS FOR IONIZED GAS TEMPERATURE EFFECT ON ATOMIC ELECTRONIC STRUCTURE N64-23600 16-11

TEMPERATURE LAPSE RATE EFFECT ON BALLOON ASCENT RATE
ERDA-140 N64-25594 17-04

TEMPERATURE EFFECT ON NOISE OF BYPASS JET
NASA-TN-D-2378 N64-26451 18-27

EFFECTS OF LIQUID-HELIUM-TEMPERATURE PLASTIC DEFORMATION ON SUPERCONDUCTIVITY TRANSITIONS IN LEAD-INDIUM ALLOYS
NASA-CR-58135 N64-26594 18-23

COMPRESSION TEMPERATURE EFFECT ON COMBUSTION IN DIESEL ENGINES
VR-4174 N64-26662 18-27

EXTENSION OF OPERATING TEMPERATURE CAPABILITY OF FISSION COUNTERS AND DIRECT CURRENT IONIZATION CHAMBERS - METAL-TO-CERAMIC VACUUM SEALS
GEMP-298 N64-26841 18-15

USE OF TEMPERATURE-SENSITIVE COATINGS TO OBTAIN QUANTITATIVE AERODYNAMIC HEAT TRANSFER DATA
NASA-CR-278 N64-27356 19-13

TEMPERATURE EFFECTS ON IRRADIATED SOLAR CELLS
N64-28222 20-06

TEMPERATURE EFFECT ON PROTECTION BALLISTIC LIMIT FOR PROJECTILE PENETRATION OF ALUMINUM ALLOY ARMOR PLATE
M64-3-1 N64-28870 20-18

TEMPERATURE EFFECTS ON STABILITY OF TRANSISTORTUBE RC NETWORK OSCILLATOR N64-29128 21-15

ELECTRICAL CHARACTERISTICS OF IRRADIATED SILICON SOLAR CELLS AS FUNCTION OF TEMPERATURE
NASA-TM-X-55049 N64-29182 21-06

EXPERIMENTAL GYROSCOPE - INDUCTION MOTORS, MAGNETIC SHIELDING, TEMPERATURE EFFECTS, FABRICATION OF PROTOTYPE, AND ELECTRON BEAM WELDING
NASA-CR-58499 N64-29201 21-15

RADIATION & TEMPERATURE RESISTANCE OF O-RING COMPOUNDS
NARF-63-15T N64-29281 21-19

TEMPERATURE EFFECT ON MICROSTRAIN POINTS IN PRESTRAINED MAGNESIUM SINGLE CRYSTALS
N64-29537 21-18

ELECTRON PARAMAGETIC RESONANCE SPECTRUM OF IRRADIATED SINGLE CRYSTALS OF ICE AT CRYOGENIC TEMPERATURES N64-30784 22-07

MATERIAL CAVITATION BY CONTINUOUS OSCILLATION WITH MAGNETOSTRICTIVE TRANSDUCER IN CAVITATING LIQUID OF VARIOUS TEMPERATURES
REPT.-85-27 N64-30915 22-18

OXIDATION RATE OF CESIUM AT REDUCED PRESSURE AND TEMPERATURE
AEDC-TDR-64-195 N64-31042 22-07

METALLURGICAL STUDIES - SINTERING OF METAL POWDERS AND RELATION BETWEEN TEMPERATURE AND DEFORMATION IN METALS
JPRS-26543 N64-31467 23-18

TEMPERATURE DEPENDENCE OF DEFORMATION RESISTANCE OF SUBSTITUTIONAL SOLID SOLUTIONS - MECHANICAL PROPERTIES OF ALLOYS N64-31469 23-18

INFLUENCE OF TEMPERATURE AND MAGNETIZATION IN SELECTIVE ABSORPTION AND FLUORESCENCE SPECTRA
E-T-G-63-7 N64-32132 23-25

EQUATIONS FOR CALCULATING DENSITY OF ICE AS FUNCTION OF TEMPERATURE AND STRESS
SR-64 N64-32519 23-25

LOW AND HIGH TEMPERATURE STRUCTURES OF SODIUM NIOBATE CRYSTALS
AD-442752 N64-33664 24-25

FISSION PRODUCT GAMMA RADIATION AND TEMPERATURE EFFECTS ON TRANSISTOR CIRCUITS
BSC-39655 N64-33735 24-09

ELECTRON COUPLING OF NUCLEAR SPIN - TEMPERATURE DEPENDENCE OF COUPLING CONSTANT IN 2-FLUOROBENZOTRIFLUORIDES
TR-73 N64-33843 24-07

TEMPERATURE FIELD
TROPICAL ZONE AIR EXCHANGE AND TEMPERATURE FIELD IN WINTER STRATOSPHERE SYSTEM OF GROWING PRESSURE FORMATIONS
JPRS-18830 N64-10794 02-21

ELECTROSLAG MELTING - PROBLEMS ON TEMPERATURE FIELDS IN ELECTROSLAG INGOT AND THERMAL ENGINEERING OF INGOT SOLIDIFICATION
JPRS-23089 N64-15049 07-17

TEMPERATURE FIELDS AND THERMOCONDUCTIVITY IN WORKPIECES & TOOLS IN MACHINING HEAT-RESISTANT STEEL ALLOYS N64-17097 09-17

SOLUTION TO PROBLEM OF TEMPERATURE FIELD IN TWO LAYER SYSTEM WITH DIFFERENT BOUNDARY CONDITIONS
FTD-TT-63-1135/1 N64-19761 12-13

TEMPERATURE FIELD AND GRADIENTS IN ELEMENTS OF WELDED DISK TYPE TURBINE ROTOR UNDER STARTING CONDITIONS
FTD-TT-62-1363/1&2 N64-22165 15-13

ULTRALOW DRAIN LOCAL OSCILLATORS AND MIXERS - ELECTRONIC EQUIPMENT
USAELRDL-TR-2438 N64-24216 16-09

TEMPERATURE FIELD IN UPPER ATMOSPHERIC LAYERS OVER USSR
RR-TR-64-3 N64-25216 17-12

TEMPERATURE FIELDS IN GAS TURBINE COMPONENTS AND ELECTRIC CONDUCTIVITY OF FLAME
FTD-TT-62-1568/1&2&4 N64-26733 18-13

HEAT TRANSFER AND TEMPERATURE FIELDS OF GAS TURBINE VANES N64-27128 19-13

WIND AND TEMPERATURE FIELDS OF STRATOSPHERE
FR-2581 N64-28010 20-21

TEMPERATURE FIELD INDUCED BY HEAT ENERGY RELEASED THROUGH TANGENTIAL BREAK IN MAGNETOHYDRODYNAMICS
N64-28488 20-13

TEMPERATURE FIELD OF CYCLICLY DEFORMED ELASTO-PLASTIC MEDIUM N64-28493 20-13

TEMPERATURE FIELDS IN RADIO-ELECTRONIC DEVICES
N64-31869 23-09

TEMPERATURE GRADIENT
SEPARATION OF GASEOUS HYDROGEN-ARGON, HYDROGEN-KRYPTON AND HELIUM-KRYPTON IN POROUS BARIUM FERRITE WITHIN PRESSURE AND TEMPERATURE GRADIENT
JPRS-18180 N64-10571 01-23

ELASTIC STRESSES & STRAINS FROM PRESSURE LOADING AND RADIAL TEMPERATURE GRADIENT FOR CIRCULAR DISK, CYLINDER, AND SPHERE
SSD-TDR-63-227 N64-12268 03-13

ATTENUATION OF EQUILIBRIUM TEMPERATURE GRADIENTS IN SPACE SUITS USING WATER
AMRL-TDR-63-80 N64-13653 04-13

RATE OF DETECTING TEMPERATURE GRADIENT CHANGES BY MEASURING APPARATUS
FTD-TT-63-540/1&2 N64-16483 08-15

COEFFICIENT OF TURBULENT EXCHANGE IN ATMOSPHERIC BOUNDARY LAYER TO DETERMINE VERTICAL PROFILE AT VARIOUS TEMPERATURE STRATIFICATIONS
N64-20206 13-21

STATIONARY AUTOMATICALLY-BALANCING RECORDING TEMPERATURE-GRADIENT METER FOR RECORDING VERTICAL DISTRIBUTION OF TEMPERATURE AT VARYING ALTITUDES
N64-20216 13-15

UNBALANCED AUTOMATIC TEMPERATURE GRADIENT METER FOR MEASUREMENTS IN ATMOSPHERE SURFACE LAYER
N64-20217 13-15

AUTOMATICALLY BALANCING RECORDING TEMPERATURE GRADIENT METER
N64-20225 13-15

VARIATION IN AMOUNT OF ATMOSPHERIC OZONE AND RELATIONSHIP TO TEMPERATURE CHANGES IN STRATOSPHERE
NASA-TT-F-9016 N64-22944 16-12

HEATING RATE EFFECTS ON TEMPERATURE RANGES IN ELECTROANNEALING OF STEEL
N64-25429 17-18

ELASTIC STABILITY IN NON-LINEAR SNAP BUCKLING - SNAP BUCKLING OF CIRCULAR PLATES DUE TO RAPID HEATING OR COOLING
N64-28097 20-33

SLIP FLOW AND TEMPERATURE JUMP BOUNDARY CONDITIONS FOR RAREFIED GASES
NASA-RP-294 N64-28230 20-13

HIGH PERFORMANCE LIGHTWEIGHT FUEL CELL ELECTRODE DEVELOPMENT - ANALYSIS OF ELECTROLYTE CONCENTRATION AND TEMPERATURE GRADIENTS
NASA-CR-54171 N64-31456 23-06

CONVECTIVE INSTABILITY OF HORIZONTAL FLUID LAYER WITH CONSTANT TEMPERATURE GRADIENTS AND DIFFUSIVE SUBSTANCE CONCENTRATION AT BOUNDARIES
MD-63-6 N64-31841 23-11

TEMPERATURE MEASUREMENT
CF CALORIMETRY
TEMPERATURE MEASUREMENT OF MOLTEN URANIUM USING INFRARED RADIATION PYROMETER
NLCO-890 N64-10134 01-01

TEMPERATURE MEASUREMENT OF EQUILIBRIUM, NONRADIANT HOT GAS STREAMS
NASA-RP-75 N64-10523 01-13

INVERSION PROCESS BASED ON THERMAL RADIATION SENSING IN OXYGEN ABSORPTION BAND FOR TEMPERATURE MEASUREMENT
N64-10913 02-12

INTERNATIONAL PRACTICAL TEMPERATURE SCALE FOR TEMPERATURE MEASUREMENTS BELOW 1000-DEG K USING PLATINUM RESISTANCE THERMOMETERS
N64-10939 02-13

CALORIMETRIC TEMPERATURE MEASUREMENT OF BATHS FOR ELECTROSLAG WELDING
JPRS-22386 N64-11920 03-17

EXTREMELY HOT ENVIRONMENT EXPOSURE EFFECT ON THE TYMPANIC, ESOPHAGEAL, AND RECTAL TEMPERATURE OF MAN
AMRL-TDR-63-85 N64-12215 03-16

ATMOSPHERIC REFRACTIVITY COMPUTATION USING SKEW TEMPERATURE-LOG PRESSURE DIAGRAM
AD-422637 N64-12244 03-21

EFFECT OF LAMINAR BOUNDARY LAYER DEVELOPMENT IN SHOCK TUBE ON SPECTRUM-LINE REVERSAL TEMPERATURE MEASUREMENTS
NPL-AERO-1018 N64-14237 06-23

ELECTRIC ARCS, HIGH SPEED PHOTOGRAPHY, ACOUSTIC NOISE SPECTROMETRY, TEMPERATURE MEASUREMENTS, AND SPECTROMETER CONSTRUCTION - PLASMA PHYSICS
LAS-SR-239-3 N64-14777 06-24

COMPUTATION OF MAXIMUM WIND VELOCITIES AND MINIMUM TEMPERATURES - METEOROLOGY
N64-15619 07-21

EQUILIBRIUM COMPOSITION & TEMPERATURES CALCULATED IN WAKE OF SLENDER ABLATING BODY
EOS-RN-22 N64-15811 07-13

MEASUREMENT OF METAL TEMPERATURE BY ELECTRO-MAGNETIC INDUCTION
HW-79621 N64-15834 07-15

REACTOR CONTROL DEVICES & SYSTEMS, CAPACITANCE TEMPERATURE SENSOR, FISSION COUNTERS, IONIZATION CHAMBERS, AND NEUTRON DETECTORS
GEMP-270C N64-16001 07-23

GRENADE-EXPLODING ROCKET SONDE FOR MEASURING TEMPERATURE AND WIND UP TO 90 KILOMETERS ALTITUDE
NASA-TN-D-2107 N64-16317 08-23

CALCULATING RETARDATION TEMPERATURE IN HYPERSONIC WIND TUNNEL WITH MOVABLE PISTONS
FTD-TT-63-312/1&2 N64-16364 08-10

AIR TEMPERATURE MEASUREMENT WITH VARIOUS TYPES OF RADIATION SHIELDING
TG-193 N64-16484 08-15

PRESSURE AND TEMPERATURE MEASUREMENT FOR SUDDEN EXPANSION OF PLANE OR AXISYMMETRIC, SONIC OR SUPERSONIC FLOW
N64-17185 09-11

CHARACTERISTICS OF TWO-WAY SOUND PROPAGATION AND APPLICATION TO ACOUSTIC DETERMINATION OF MEAN TEMPERATURE
ERDA-112 N64-17438 09-21

UPPER AIR DENSITY AND TEMPERATURE MEASURED BY RADAR-TRACKED FALLING SPHERES
NASA-CR-29 N64-17831 09-12

WALL TEMPERATURE MEASUREMENTS MADE ON 15-DEG CONE AT HYPERSONIC SPEEDS - AERODYNAMIC HEATING
ARC-R&M-3357 N64-18154 10-02

SODIUM-LINE METHOD FOR MEASURING TEMPERATURE DISCREPANCY BEHIND SHOCK WAVES
ARC-CP-712 N64-18156 10-24

FAST RESPONSE PLATINUM FILM, SILICON OXIDE TEMPERATURE PROBES FOR SHOCK TUBE STUDY
N64-18209 10-15

ENGINEERING AND TESTING OF TEMPERATURE-HUMIDITY MEASURING SET AN/TMQ-11-A
AFCRL-63-595 N64-18607 11-15

METEOROLOGY - INFRARED RADIOMETER FOR SURFACE AND CLOUD TEMPERATURE MEASUREMENTS
USAELRDL-TR-2373 N64-19406 12-15

THERMOCOMPENSATION OF THERMISTOR POWER MEASURING DEVICES WITH THERMISTOR IN FEEDBACK CIRCUIT
JPRS-24477 N64-19492 12-09

RADIOMETRIC TEMPERATURE DETERMINATIONS OF TERRESTRIAL MATERIALS AT L BAND FREQUENCY
MED-64-30 N64-19629 12-08

DIRECT MEASUREMENT OF HYDROGEN AND HELIUM ION DISTRIBUTION IN UPPER ATMOSPHERE
NASA-RP-168 N64-19994 12-12

HYPERSONIC WAKE BRIGHTNESS TEMPERATURE MEASUREMENT FOR BLUNT BODIES
GDA63-0506 N64-20139 13-24

STATIONARY AUTOMATICALLY-BALANCING RECORDING TEMPERATURE-GRADIENT METER FOR RECORDING VERTICAL DISTRIBUTION OF TEMPERATURE AT VARYING ALTITUDES
N64-20216 13-15

UNBALANCED AUTOMATIC TEMPERATURE GRADIENT METER FOR MEASUREMENTS IN ATMOSPHERE SURFACE LAYER
N64-20217 13-15

STRATOSPHERIC STRUCTURE DETERMINATION FROM WIND AND TEMPERATURE MEASUREMENTS BY METEOROLOGICAL ROCKETS
ERDA-130 N64-20309 13-21

OPTICAL TECHNIQUES FOR TEMPERATURE AND CONCENTRATION MEASUREMENTS OF COMBUSTION PRODUCTS

IN SUPERSONIC STREAMS
AIAA PAPER-64-536 N64-20472 13-26

ARGUS FORTRAN II COMPUTER PROGRAM FOR CALCULATING TRANSIENT TEMPERATURES IN CONCENTRIC CYLINDRICAL CONFIGURATION
ANL-6654 N64-20473 13-20

CALORIMETRIC TEMPERATURE MEASUREMENT OF HEMISPHERICAL THERMAL EMISSION OF SPACECRAFT TEMPERATURE CONTROL SURFACES AT ROOM TEMPERATURE
NASA-CR-56037 N64-20604 13-13

SURFACE TEMPERATURE VARIATIONS DURING LUNAR NIGHT MEASURED WITH PHOTOMETER INCORPORATING MERCURY-DOPED GERMANIUM PHOTOCONDUCTOR N64-20608 13-05

METHOD FOR COMPUTING EXOSPHERIC TEMPERATURES AS FUNCTION OF GEOGRAPHIC, SOLAR, & GEOMAGNETIC PARAMETERS
NASA-CR-56102 N64-20689 13-21

ATMOSPHERIC TEMPERATURE MEASUREMENT
USAELRDL-TR-2405 N64-20854 14-15

TEMPERATURE REACTION TO GAMMA RADIATION IN MONKEYS
N64-20945 14-16

PROBE SYSTEM FOR MEASUREMENT OF INSTANTANEOUS TEMPERATURES OF RADIATION HEATED SURFACES
RTD-TDR-63-4015 N64-21489 14-06

MEASUREMENTS OF ATMOSPHERIC TEMPERATURE BY INSTRUMENTED SATELLITE N64-21638 15-12

MEASUREMENT OF PERPENDICULAR TEMPERATURE OF C-STELLARATOR PLASMA BY DIAMAGNETIC COIL
MATT-255 N64-21735 15-24

PRECISE TEMPERATURE MEASUREMENT OF DEBYE-SCHERRER SPECIMENS IN HIGH TEMPERATURE X-RAY DIFFRACTION MEASUREMENT OF THERMAL EXPANSION
LA-2687 N64-21873 15-13

SHOCK TUBE MEASUREMENT OF TEMPERATURES AND OSCILLATOR STRENGTHS
AD-433547 N64-22226 15-24

DEVICE FOR MEASURING TEMPERATURE COEFFICIENTS OF SMALL MAGNETS
FTD-TT-63-423/1&2&4 N64-22351 15-15

COMPUTER PROGRAM FOR DETERMINING IMPINGING RADIATION HEAT LOADS AND TRANSIENT TEMPERATURES OF ORBITING SATELLITES
NASA-CR-56278 N64-22466 15-13

RESPONSE AND CORRECTIONS TO THERMISTOR AND PLATINUM WIRE RESISTANCE THERMOMETER FOR TEMPERATURE MEASUREMENTS IN UPPER ATMOSPHERE
PAD-83 N64-22493 15-25

TEMPERATURE AND EFFICIENCY DETERMINATION OF LIGHT SOURCE BY CHANGE IN ABSORPTION CAPACITY OR LUMINESCENCE OF SUBSTANCE
FTD-TT-64-153/1&2 N64-22667 15-23

TEMPERATURE MEASUREMENT OF THERMALLY IRRADIATED SURFACE OF ALPHA CELLULOSE
DASA-1467 N64-22966 16-26

TEMPERATURE MEASUREMENT OF ATMOSPHERE WITH SATELLITE-BORNE INSTRUMENTS
NASA-TT-F-8569 N64-23121 16-12

MEASURING CHANGING TEMPERATURES OF NONMETALLIC SURFACES N64-23201 16-13

DYNAMIC CHARACTERISTICS OF TEMPERATURE SENSORS FOR RETARDED AIR FLOW N64-23590 16-11

ATMOSPHERIC COMPOSITION INSTRUMENTATION FOR TEMPERATURE DETERMINATION OF MARS ATMOSPHERE
NASA-CR-56453 N64-24043 16-15

TEMPERATURE MEASUREMENT OF ROTOR DISK OF AIR COOLED GAS TURBINE N64-24250 17-11

TEMPERATURE MEASUREMENT AND REFLECTION COEFFICIENT OF LUNAR SURFACE
FTD-TT-62-1514/1&2 N64-24260 17-29

LUNAR SURFACE TEMPERATURE DETERMINATION
N64-24261 17-29

MATHEMATICAL PREDICTION OF TEMPERATURE RISE WITHIN SEMI-INFINITE WOOD SLAB SUBJECTED TO HIGH TEMPERATURE CONDITIONS
WSS/CI PAPER-64-5 N64-24374 17-26

STATIC TEMPERATURES IN SHOCK TUNNEL FLOWS
R64SD25 N64-24586 17-13

TEMPERATURE MEASUREMENT OF FREE ATMOSPHERE CONSIDERING ATOMIC RECOMBINATION
NASA-TT-F-215 N64-24591 17-12

TECHNIQUES FOR MEASURING TEMPERATURE, PRESSURE, DENSITY, AND WIND VELOCITY ONBOARD LARGE LAUNCH VEHICLE IN SPACE ENVIRONMENT N64-24906 17-21

MEASUREMENT OF EARTH SURFACE TEMPERATURE FROM AIRCRAFT
E-T-G-63-34 N64-24953 17-12

MEASURING APPARATUS FOR TEMPERATURE CHANGES
FTD-TT-64-82/1&2&4 N64-25445 17-15

TEMPERATURE MEASUREMENT WITH PLATINUM RESISTANCE THERMOMETER
FTD-TT-64-83/1&4 N64-25461 17-13

TRANSIENT TEMPERATURE CALCULATION FOR MULTILAYER SLAB WITH TIME DEPENDENT CONVECTION HEATING
TN-R-97 N64-25551 17-13

WELDABILITY AND TEMPERATURE STABILITY STUDIES OF REFRACTORY METAL ALLOYS FOR ALKALI-METAL SPACE ELECTRIC POWER SYSTEMS
NASA-CR-54088 N64-25764 17-10

CALORIMETRIC PROBE WITH MAXIMUM INTERVAL OF LINEAR TEMPERATURE-TIME RESPONSE FOR HIGH HEATING RATE ENVIRONMENTS
NASA-RP-238 N64-25971 18-13

TEMPERATURE MEASUREMENTS IN HYPERSONIC SHOCK TUNNEL N64-26138 18-13

IMPROVEMENT OF SENSOR RESPONSE BY ANALOG TECHNIQUE AND APPLICATION TO THERMOCOUPLE MEASUREMENT OF TEMPERATURE
USAELRDL-TR-2445 N64-26507 18-15

TEMPERATURE MEASUREMENT AND CONTROL IN ELECTRON BEAM FURNACE USING OPTICAL AND TWO-COLOR PYROMETERS
NRL-6062 N64-26914 18-15

OPTICAL TECHNIQUES FOR TEMPERATURE AND CONCENTRATION MEASUREMENTS OF COMBUSTION IN SUPERSONIC STREAMS
NASA-TN-D-2441 N64-27203 19-15

SHOCK FRONT RADIATION IN SHOCK TUBE AND SPECTROSCOPIC TEMPERATURE MEASUREMENT IN RELAXATION ZONE
NASA-CR-58036 N64-27292 19-07

DATA PROCESSING OF METEOROLOGICAL ROCKET MEASUREMENTS OF WIND, TEMPERATURE, AND DENSITY IN STRATOSPHERE
ERDA-152 N64-27564 19-21

ERRORS IN USE OF AIRBORNE INFRARED RADIATION THERMOMETER FOR OCEAN SURFACE TEMPERATURE MEASUREMENT
AD-601473 N64-27622 19-15

TEMPERATURE MEASUREMENTS OF BLACK BODY MOST CLOSELY FITTING SOLAR EXTRATERRESTRIAL SPECTRUM
NASA-TN-D-1845 N64-27661 19-20

EQUILIBRIUM OF HYDROCARBONS IN HIGH TEMPERATURE ENVIRONMENT AND TEMPERATURE MEASUREMENT IN ELECTRIC ARCS N64-28178 20-13

DIAMAGNETIC PERPENDICULAR TEMPERATURE MEASUREMENT

OF HELIUM DISCHARGE IN STELLARATOR
MATT-278 N64-28420 20-24

SPECTROSCOPIC TECHNIQUE FOR MEASURING ROTATION, VIBRATION, AND ELECTRONIC TEMPERATURES OF NONEQUILIBRIUM SHOCK FRONT
NASA-CR-58673 N64-28885 20-11

VARIATIONS IN UPPER ATMOSPHERIC TEMPERATURE MEASUREMENTS DURING GEOMAGNETIC STORMS AND QUIET INTERVALS
NASA-CR-56882 N64-28974 20-12

TRANSVERSE SHEAR EFFECTS ON TEMPERATURE CALCULATION OF ORTHOTROPIC PLATE
FTD-TT-63-529/1&2&4 N64-29024 21-33

HIGH SPEED RECORDING OF SMALL TEMPERATURE DROPS
N64-29149 21-15

TEMPERATURE MEASUREMENTS OF NEAR WAKE GENERATED BY HYPERVELOCITY PROJECTILE
CARDE-TR-502/64 N64-29423 21-13

TEMPERATURE SPECTRA MEASUREMENTS OF AIRFLOW OVER ARTIFICIALLY CONTROLLED AND UNMODIFIED SURFACE ROUGHNESS N64-29534 21-21

HIGH TEMPERATURE THERMOCOUPLE FOR ROCKET EXHAUST TEMPERATURE MEASUREMENT
NASA-CR-58569 N64-29568 21-15

SURFACE TEMPERATURE OF LUNAR SEAS AND CONTINENTS BY RADIATION FLOW VALUES IN TWO SPECTRAL REGIONS
JPRS-26521 N64-30575 22-28

INSTRUMENT TO PREDICT PHYSIOLOGICAL & SUBJECTIVE RESPONSE OF HUMANS TO TEMPERATURE DIFFERENCES
REPT.-6 N64-30629 22-15

PRESSURE-TEMPERATURE DIAGRAM OF SOLID THALLIUM
N64-30799 22-25

SPECTROSCOPIC MEASUREMENT OF EXCITATION TEMPERATURE OF LOW DENSITY, SUPERSONIC, ARGON PLASMA STREAM PRODUCED BY PLASMA JET
AEDC-TDR-64-196 N64-31069 22-24

TEMPERATURE, PRESSURE, DENSITY, AND WIND MEASUREMENTS FROM RECORDED EXPLOSION TIMES AND SOUND ARRIVALS DURING ROCKET GRENADE EXPERIMENTS
NASA-TR-R-211 N64-31451 23-21

EQUATIONS FOR PREDICTING KINETIC TEMPERATURE OF AEROSPACE ENVIRONMENT FROM 100 TO 60,000 KILOMETERS ABOVE EARTH SURFACE
NASA-TM-X-53104 N64-31550 23-12

WIND & TEMPERATURE MEASUREMENTS OBTAINED FROM ROCKETSONDES IN UPPER ATMOSPHERE DURING JANUARY 1964
IRIG-MWG-29-64 N64-31620 23-32

WIND AND TEMPERATURE MEASUREMENTS DERIVED FROM ROCKET PROBES OF UPPER ATMOSPHERE DURING FEBRUARY 1964
IRIG-MWG-30-64 N64-31621 23-32

TEMPERATURE LIMITATIONS AND ELECTRONIC EQUIPMENT PACKAGING FOR LUNAR MOBILE LABORATORY
NASA-CR-61019 N64-31719 23-09

APPARENT SKY TEMPERATURE MEASUREMENTS AT MILLIMETER-WAVE FREQUENCIES
AFCRL-64-590 N64-31809 23-21

SOUND PROPAGATION IN SHADOW ZONE AND MEASUREMENTS OF SOUND ADSORPTION & VELOCITY AND HIGH ATMOSPHERE TEMPERATURE
AD-447807 N64-32120 23-23

LATTICE VIBRATIONS STUDY THROUGH MEASUREMENTS OF TEMPERATURE DEPENDENCES OF X-RAY BRAGG INTENSITIES
TR-3 N64-32212 23-25

ERROR ESTIMATION IN TEMPERATURE AND THERMAL STRESS CALCULATIONS - BOUNDS FOR THREE-DIMENSIONAL HEAT CONDUCTION PROBLEMS
CU-1-64-ONR-4259/07/CE N64-32588 23-13

FABRICATION, RANGES, AND TEMPERATURE COEFFICIENTS OF RESISTORS USING PALLADIUM AND SILVER DISPERSED IN CERAMIC MATRIX
IDR-5 N64-32618 23-17

DETERMINING TRANSIENT HEAT FLUX TO PLANE OR CYLINDRICAL SURFACE OF ISOTROPIC MATERIAL FROM TRANSIENT TEMPERATURE MEASUREMENTS
NASA-CR-59208 N64-32994 24-13

SPECTROSCOPIC METHOD FOR TEMPERATURE OR PRESSURE MEASUREMENT IN LOW TEMPERATURE PLASMAS
NASA-CR-58969 N64-33202 24-24

ALUMINUM AND SODIUM NITRATE EMITTER USED WITH MONOCHROMATOR-PHOTOMETER FOR MEASURING IONOSPHERIC TEMPERATURE
NASA-TT-F-8977 N64-33384 24-12

MEASUREMENTS AT 8 MILLIMETERS OF BRIGHTNESS TEMPERATURE OF ILLUMINATED SIDE OF VENUS
NASA-TT-F-8978 N64-33385 24-29

PLASMA TEMPERATURE MEASUREMENT DEVICE
FTD-TT-64-604/1&2 N64-33528 24-15

TEMPERATURE PROBE
PROBE-TYPE CAPACITANCE TEMPERATURE SENSOR FOR HIGH TEMPERATURE USE
GEMP-80 N64-11948 03-15

TEMPERATURE PROFILE
INVERSION TECHNIQUES FOR DERIVING TEMPERATURE PROFILES, WITH ACCURACY & ERROR PROPAGATION CONSIDERATIONS N64-10924 02-21

TEMPERATURE PROFILE & HEAT TRANSFER IN RADIATION-ABSORBING GRAY GAS ENCLOSED BETWEEN PARALLEL FLAT PLATES WITH FLOW AND CONDUCTION
NASA-TR-R-154 N64-11558 03-13

MEASUREMENT OF TEMPERATURE PROFILES OF BURNING SOLID PROPELLANTS BY MICROTHERMOCOUPLES
AERONAUTICAL ENG. REPT.-664 N64-11763 03-26

VERTICAL ATMOSPHERIC TEMPERATURE AND PRESSURE PROFILES FOR FLIGHT PATH AND SPACING OPTIMIZATION
N64-12789 04-21

TEMPERATURE PROFILES IN PREHEAT ZONE & GASEOUS COMBUSTION ZONE OF BURNING SOLID PROPELLANT
AIAA PAPER-64-106 N64-14547 06-26

TEMPERATURE PROFILE SOUNDING FOR IDENTIFICATION OF GLACIATED ZONES ON ELBRUS N64-16456 08-12

NEW DUAL-GAS EQUATION INVOLVING NUMBER DENSITIES FOR ATMOSPHERIC TEMPERATURE - MASS SPECTROMETRY
GCA-TR-63-9-A N64-17854 10-12

TEMPERATURE AND DENSITY PROFILES OF UPPER ATMOSPHERE FROM METEOROLOGICAL ROCKET MEASUREMENTS
AWS-TR-175 N64-18697 11-21

ATMOSPHERIC OZONE PROFILES, ASSOCIATED TEMPERATURE AND DEW POINT PROFILES, AND TABULATED OZONE AND RADIOSONDE DATA
AFCRL-64-30/1/ N64-20094 13-12

METEOROLOGICAL ROCKET SITE AT MCMURDO, ANTARCTICA AND TEMPERATURE AND WIND PROFILES OBTAINED DURING FIRST ROCKET FIRINGS N64-20775 14-10

TEMPERATURE PROFILES FOR BURNING AMMONIUM PERCHLORATE
FTD-TT-64-327/1&2&4 N64-21976 15-07

SEASONAL AND LATITUDINAL VARIATION OF ZONAL WINDS AND TEMPERATURES IN STRATOSPHERE
RM-4144-PR N64-23962 16-12

SOUTH POLE WEATHER DATA & ANALYSIS OF CURVATURE CHARCTERISTICS OF MICROMETEOROLOGICAL WIND & POTENTIAL TEMPERATURE PROFILE N64-24485 17-21

MAGNETIC PROPERTIES VS TEMPERATURE PROFILES FOR FERRIMAGNETIC MATERIALS
NRL-5935 N64-28872 20-25

STRATOSPHERIC TEMPERATURE PROFILES BASED ON RADIOMETRIC MEASUREMENTS FROM TIROS VII SATELLITE
NASA-TM-X-55045 N64-28930 20-21

ELECTRICAL PROPERTIES OF IRRADIATED SILICON SOLAR CELLS MEASURED FROM TEMPERATURE PROFILE
N64-29159 21-06

COMPUTER PROGRAMMING FOR METEOROLOGY - GEOSTROPHIC WIND MODELING AND PREDICTION OF WIND & TEMPERATURE PROFILES
JPRS-26693 N64-31022 22-21

WIND AND TEMPERATURE DATA FROM ROCKET SOUNDINGS
IRIG-MWG-27-63 N64-32366 23-32

VELOCITY AND TEMPERATURE PROFILES FOR NONNEWTONIAN FLUIDS IN CIRCULAR TUBES
REPT.-22 N64-32589 23-11

RADIAL DENSITY AND TEMPERATURE PROFILE IN HIGH PRESSURE XENON DISCHARGE
FTP-TT-64-375/1&2 N64-33103 24-23

OPTIMUM INVERSION TECHNIQUE FOR INFERRING VERTICAL TEMPERATURE PROFILES FROM REMOTE RADIOMETRIC OBSERVATIONS
NASA-CR-60022 N64-33618 24-28

TEMPERING
PLANE STRAIN FRACTURE TOUGHNESS OF QUENCHED AND TEMPERED STEEL
WAL-TR-310.24/5-4 N64-10245 01-18

BRITTLENESS IN STEEL IN LOW-TEMPERATURE TEMPERING
N64-11146 02-18

EFFECT OF TEMPERING ON NOTCH PROPERTIES OF STEEL SHEET
AMRA-TR-63-35 N64-18199 10-18

RESIDUAL STRESSES IN SYMMETRICAL BODIES, FORMATION OF AUSTENITIC & MARTENSITIC STEEL, AND TEMPERING OF QUENCHED STEEL
FTD-TT-62-1762/1&2 N64-19180 11-17

RELATION BETWEEN SOLUBILITY OF CARBON IN FERRITE AND TYPE OF CARBIDES FORMED ON TEMPERING
FTD-TT-63-349/1&2&4 N64-22186 15-18

TENSILE STRENGTH
CRYSTAL TENSILE STRENGTH AND ANNEALING EFFECT ON GERMANIUM CRYSTALS - EDGE DISLOCATIONS AND ELASTIC STRESSES IN SILICON
JPRS-17689 N64-10708 02-25

TENSILE TESTING OF THREADLIKE CRYSTALS OF COPPER, NICKEL, AND COBALT N64-10709 02-25

STRENGTH PROPERTIES OF TUNGSTEN AND TUNGSTEN BASE ALLOYS
WADD-TR-60-37, PT. 4 N64-11748 03-18

TENSILE AND IMPACT PROPERTIES OF STRUCTURAL MATERIALS FROM 20- TO 300-DEG K
NBS-MONOGRAPH-63 N64-12003 03-18

TENSILE, RUPTURE, CREEP, & FATIGUE TESTS OF NICKEL ALLOYS
AD-422498 N64-12039 03-18

HIGH STRENGTH AND FRACTURE TOUGHNESS IN STEELS DEVELOPED THROUGH STRAIN-INDUCED TRANSFORMATIONS
WAL-TR-323.4/2-1 N64-12363 03-18

TENSILE STRENGTH OF REINFORCED HIGH TEMPERATURE ELASTOMERS IMPROVED BY USE OF CHEMICALLY MODIFIED FILLERS
AD-405893 N64-12816 04-07

STRINGER EFFECT ON TENSILE STRENGTH IN CRACKED SHEET
AD-425873 N64-12818 04-33

EFFECTS OF ULTRASONIC TREATMENT ON TEMPERATURE, TENSILE STRENGTH, AND PLASTICITY OF BRASS
FTD-TT-63-898/1&2 N64-12841 04-18

TENSILE AND YIELD STRENGTH OF POWDERED ALUMINUM ALLOYS
REPT.-7-63-AP59-S N64-12867 04-18

EFFECTIVE GAUGE LENGTH OF BONDED-END TENSILE SPECIMEN AND HEAT CONDUCTION IN STAR-PERFORATED SOLID PROPELLANT GRAINS
P-63-20 N64-12984 04-20

TEMPERATURE & STRAIN RATE EFFECT ON TENSILITY OF POWDER METALLURGY TUNGSTEN ROD
NASA-CR-53018 N64-13269 04-18

TENSILE STRENGTH PROPERTY OF CHROMIUM-MAGNESIUM OXIDE ALLOY WITH TITANIUM
AD-424854 N64-13600 04-19

GLASS FIBER STRENGTH ENHANCEMENT THROUGH BUNDLE DRAWING OPERATIONS
ARF-K263 N64-13607 05-19

SHORT TIME TENSILE PROPERTIES OF COBALT-BASE ALLOY
DMIC-MEMO-179 N64-13648 05-18

FLEXIBILITY & TENSILE STRENGTH OF COMMERCIAL TUNGSTEN SHEET
ASD-TDR-63-585, VOL. 1 N64-13767 05-18

TENSILE, RUPTURE, CREEP, FATIGUE, AND OTHER MECHANICAL PROPERTIES OF INCONEL X
QR-7 N64-13895 05-20

BIAXIAL TENSILE STRENGTH OF ANISOTROPIC SHEET MATERIALS
AMRA-TR-63-11 N64-14000 05-18

TENSILE STRENGTH IMPROVEMENT OF SILICONE RUBBER BY USING CERTAIN FIBROUS TALCS
QPR-3 N64-14471 06-13

TENSILE STRENGTH AT HIGH TEMPERATURE AND PHASE IDENTIFICATION FOR TANTALUM-TUNGSTEN-HAFNIUM-CARBON ALLOY SHEETS
WANL-PR-M-007 N64-14639 06-18

ELASTIC MODULI AND TENSILE STRENGTH OF GLASSES AND CERAMIC MATERIALS N64-14734 06-19

VARIATION IN TENSILE STRENGTH, BENDING, COLOR, AND DIAMAGNETIC PROPERTIES OF TANTALUM CARBIDE WITH CARBON CONTENT
NASA-RP-122 N64-14746 06-19

HYDROGEN CONCENTRATION AND HYDRIDE MORPHOLOGY EFFECTS ON TENSILE PROPERTIES OF ANNEALED AND QUENCHED ZIRCALOY
WAPD-TM-275 N64-15392 07-18

STRENGTH OF REINFORCED PLASTIC LAMINATES AT ELEVATED TEMPERATURES
RTD-TDR-63-4091 N64-16470 08-19

STATIC AND VIBRATIONAL TENSILE PROPERTIES OF NYLON AND MYLAR ROPE
FTDM-3159 N64-16638 08-19

TENSILE BEHAVIOR OF COPPER FOILS PREPARED FROM ROLLED BULK MATERIAL N64-17447 09-25

GLASS FIBER TENSILE STRENGTH IMPROVEMENT BY BUNDLE DRAWING
IITRI-8263-4 N64-18765 11-19

EFFECTS OF SUBSTITUTING COBALT FOR NICKEL ON TENSILE PROPERTIES AND HARDNESS OF AUSTENITIC STAINLESS STEEL
BM-RI-6427 N64-19239 11-18

TENSILE STRENGTH AND DUCTILITY OF BERYLLIUM ABOVE ROOM TEMPERATURE
AD-432452 N64-19627 12-18

THERMAL-MECHANICAL PROCESSING EFFECT ON TENSILE STRENGTH OF TUNGSTEN-NIOBIUM ALLOY
ASD-TDR-63-782 N64-19654 12-18

TENSILE, IMPACT, AND AXIAL FATIGUE PROPERTIES OF STEEL B-58 WING PYLON BOXES AFTER REPAIR WELDING
FGT-2956 N64-20038 13-18

HIGH CYCLE AND LOW CYCLE FATIGUE TESTS AND TENSILE TESTS OF 4330-V STEEL ALLOY FORGINGS
FTDR-3157 N64-20056 13-18

TENSILE PROPERTIES OF BERYLLIUM FOR STRUCTURAL MATERIAL
AD-435098 N64-20288 13-18

TENSILE STRENGTH AND RELAXATION TIME OF STYRENE COPOLYMERS
PIBAL-687 N64-20331 13-07

TENSILE STRENGTH OF TANTALUM ALLOY SHEET
WANL-PR-M-008 N64-20405 13-18

TENSILE PROPERTIES OF PYROLYTIC TUNGSTEN FROM 1370 TO 2980 DEG IN VACUUM
NASA-CR-53992 N64-20610 13-18

HIGH TEMPERATURE TENSILE AND STRESS-RUPTURE PROPERTIES OF INCO 713C SHEET - NICKEL-BASE ALLOY
ASD-TDR-62-869, PT. II N64-22284 15-18

TENSILE PROPERTIES OF SILICIDE COATED TITANIUM-ZIRCONIUM-MOLYBDENUM SHEET ALLOY AT ROOM AND ELEVATED TEMPERATURES
A748 N64-22590 15-18

EFFECTS OF INTERSTITIAL IMPURITIES ON LOW TEMPERATURE TENSILE PROPERTIES OF TUNGSTEN
NASA-TN-D-2287 N64-22750 16-18

BENDING AND TENSILE STRENGTHS OF VARIOUS TITANIUM ALLOYS
WAL-TR-405/2-4 N64-22921 16-18

MOLECULAR STRUCTURE AND TENSILE PROPERTIES OF FILAMENT WOUND PLASTICS
NRL-6047 N64-23247 16-19

TENSILE PROPERTIES OF TUNGSTEN-RHENIUM AT HIGH TEMPERATURES IN VACUUM
NASA-CR-56462 N64-23945 16-18

TENSILE & YIELD STRENGTH OF MARAGING STEELS
N64-24354 17-34

TENSILE STRENGTH AND FRACTURE TOUGHNESS TESTS OF 18 PERCENT NICKEL MARAGING STEEL
N64-24359 17-18

ORIENTATION DEPENDENCE OF TENSILE STRENGTH AND FRACTURE TOUGHNESS OF 25 PERCENT NICKEL MARAGING STEEL PREPARED BY UNIDIRECTIONAL SOLIDIFICATION
N64-24364 17-18

TENSILE STRENGTH AND FATIGUE TESTS OF 18 PERCENT NICKEL MARAGING STEEL AND 9 PERCENT NICKEL STEEL
N64-24365 17-18

MECHANICAL PROPERTIES AND TENSILE STRENGTH OF 18 PERCENT NICKEL MARAGING STEEL PRODUCED BY INVESTMENT CASTING N64-24366 17-17

EFFECTS OF RESIDUAL ELEMENTS ON DUCTILITY AND TENSILE STRENGTH OF MARAGING STEELS
N64-24370 17-18

TENSILE STRENGTH AND FATIGUE TESTS AND STRESS CORROSION TESTS OF BOLTS AND OTHER SAMPLES OF 18 PERCENT NICKEL MARAGING STEEL N64-24371 17-18

TENSILE AND COMPRESSIVE STRESS-STRAIN PROPERTIES OF STRETCHED ALUMINUM ALLOY PLATES
ML-TDR-64-105 N64-25241 17-18

TENSILE STRENGTH OF BRITTLE MATERIALS - ALUMINUM OXIDE CERAMICS
ML-TDR-64-49 N64-25341 17-19

ELASTIC MODULI AND TENSILE STRENGTH OF SILICATE GLASSES AND OTHER CERAMIC MATERIALS
PR-4 N64-26691 18-19

INFLUENCE OF METALLURGICAL VARIABLES ON TENSILE PROPERTIES OF HASTELLOY N
ORNL-3661 N64-26790 18-18

TENSILE PROPERTIES AND NOTCH SENSITIVITY OF ALUMINUM ALLOYS AT CRYOGENIC TEMPERATURES
N64-28693 20-18

TENSILE STRENGTH AND DUCTILITY OF TUNGSTEN IN VACUUM - EFFECT OF GRAIN SIZE AND IMPURITIES
NASA-CR-58237 N64-29005 20-18

TENSILE STRENGTH AND FATIGUE TESTS TO DETERMINE ENDURANCE LIMIT OF STEEL
IS-929 N64-29760 21-18

TENSILE AND COMPRESSIVE PROPERTIES OF PLASTIC LAMINATES REINFORCED WITH UNWOVEN GLASS FIBERS
FPL-052 N64-30686 22-19

IMPROVED STRENGTH AND DUCTILITY OF RECRYSTALLIZED NIOBIUM ALLOY SHEET
AD-600403 N64-30864 22-18

AMBIENT PRESSURE SHEET DRAWING DEVICE FOR EXPERIMENTS IN TENSILE TESTING MACHINE
REPT.-63-GC-0252M N64-31192 22-17

ELEVATED TEMPERATURE, TENSILE, AND CREEP PROPERTIES OF INCONEL AND OTHER NICKEL BASE ALLOYS
ML-TDR-64-79 N64-31968 23-18

TENSILE, AXIAL FATIGUE, AND CRACK PROPAGATION PROPERTIES OF ALUMINUM ALLOY, NICKEL MARAGING STEEL, HASTELLOY, AND NICKEL BASE ALLOY
GD/A-63-0818-3 N64-32819 24-18

TENSILE DEVICE TO MEASURE STRESS-STRAIN ON FREE EPITAXIAL FILMS
BMPR-5 N64-33450 24-18

TENSILE STRESS
ASPECTS OF CRYSTAL TENSION ENERGY - TENSILE STRESS EFFECT UPON MAGNETIZING CURVE
E-T-G-63-12 N64-12203 03-23

STRESS ON RECTANGULAR TENSILE BAR WEAKENED BY SURFACE CRACKS
WAL-TR-811.8/5 N64-12379 03-33

TENSILE STRESS ON ELASTIC SHEET WITH CRACKS IN EDGES AND LATERAL END CONSTRAINT
AMRA-TR-63-26 N64-16490 08-33

MOVING GRIFFITH CRACK OF UNVARYING SHAPE - PROPAGATING TENSILE FRACTURE AS STEADY STATE DYNAMIC MIXED BOUNDARY VALUE PROBLEM
NASA-CR-53181 N64-17583 09-33

TENSILE STRESS RELAXATION TEST FOR MECHANICAL PROPERTIES OF VISCOELASTIC MATERIALS
ABL/X-106 N64-21115 14-34

TENSILE FRACTURE STRESS OF TUNGSTEN-URANIUM OXIDE CERMETS FABRICATED BY PNEUMATIC IMPACTION
HW-79676 N64-25964 18-19

SHAPE FACTORS FOR TENSILE, BENDING, AND TORSIONAL STRESS COMPILED FOR SEVERAL SIMPLE NOTCH SHAPES
RSIC-213 N64-27049 19-33

TENSILE, STRESS RUPTURE, CREEP, SHEAR, AND FATIGUE TESTING OF REFRACTORY ELEMENTS N64-27594 19-18

CREEP IN METAL AT HIGH TEMPERATURES UNDER COMBINED TENSILE AND TORSIONAL STRESS N64-28499 20-33

TENSILE STRESS FIELDS DUE TO HOLES SUPERIMPOSED BY EXTERNAL NOTCHES, AND INVESTIGATED BY PHOTOELASTIC AND TENSILE FRACTURE TESTS
ML-TDR-64-144 N64-28543 20-33

LONG TERM TENSILE STRESS RUPTURE STRENGTH OF ALLOYS CALCULATED FROM RESULTS OF STATIC TENSILE STRENGTH TESTS AT ELEVATED TEMPERATURES
TR-1773 N64-28628 20-18

TENSILE & STRESS-RUPTURE DATA ON HIGH TEMPERATURE NICKEL ALLOY
REPT.-2-53431/3R-478 N64-31708 23-18

TENSILE MEAN STRESSES EFFECT ON FATIGUE PROPERTIES OF PLASTIC LAMINATES REINFORCED WITH UNWOVEN GLASS FIBERS

ML-TDR-64-86 N64-32250 23-19

TENSION
SA OXYGEN TENSION
SA SURFACE TENSION
SOVIET MEDICINE - VASCULAR SURGERY, METABOLISM, HYPERTENSION, AND THERAPEUTIC UNDERWEAR
JPRS-17498 N64-10683 02-16

ELECTRIC SLEEP - NEUROTROPIC TREATMENT OF ESSENTIAL HYPERTENSION N64-10684 02-16

TENSION FATIGUE TESTING OF HIGH STRENGTH STEEL
ASD-TDR-63-645 N64-11442 03-18

INDUCED SLEEP FOR CURE OF CHRONIC INSOMNIA, BRONCHIAL ASTHMA, ULCERS, AND HYPERTENSION
JPRS-18021 N64-11621 03-16

FRACTURE DUE TO TENSION FIELD N64-13443 05-25

TENSION AND RATIO OF WIDTH-TO-THICKNESS STRAIN DETERMINATIONS OF MAGNESIUM ALLOYS
WAL-TR-834.12/2-3 N64-13724 05-18

CAVITATION AND EFFECTIVE LIQUID TENSION OF NITROGEN IN A TUNNEL VENTURI
NASA-TN-D-2088 N64-15160 07-11

TENSION AND COMPRESSION TESTING OF ALUMINUM ALLOY AFTER MULTIPLE TEMPERATURE EXPOSURE - STRESS-STRAIN DIAGRAMS
FZM-12-249 N64-20075 13-18

STRESS-INTENSITY FACTORS FOR SINGLE-EDGE-NOTCH TENSION SPECIMEN BY BOUNDARY COLLOCATION OF STRESS FUNCTION
NASA-TN-D-2395 N64-26418 18-33

TENSIONS IN LIQUID ON VERGE OF CAVITATION IN FLOW AND NONFLOW SYSTEMS N64-26468 18-11

HYDRAULIC TENSION-COMPRESSION FATIGUE TESTING MACHINE
D1-82-0268 N64-28712 20-10

FLOW STRESS-STRAIN RELATIONSHIPS IN TENSION TESTS OF STEEL USING BRIDGMAN METHOD
WAL-TR-834.2/10 N64-29448 21-33

PLANE PLASTIC STRAINING OF NOTCHED STEEL AND ALUMINUM TENSION BARS
EMRL-23 N64-30621 22-33

SELF-CONTAINED TENSION CASTING DEVICE FOR REPRODUCIBLE FIBER STRAND TESTS
TM-230 N64-30894 22-10

FIBER PATTERNS FOR UNIFORM TENSION IN SPINNING FILAMENTARY DISK
NASA-CR-106 N64-31203 22-33

TENSILE TESTING, FLUID-TO-FLUID EXTRUSION, AND COLD DEFORMATION OF BERYLLIUM AND TUNGSTEN
EPR-1 N64-32652 23-18

REACTION OF OSCILLATING QUARTZ PLATES TO STEADY TENSION OR FLEXURE STRESS
REPT.-12 N64-32870 24-23

X-RAY DIFFRACTION METHOD OF RESIDUAL STRESS MEASUREMENTS ON SILICON BRONZE AND ALPHA BRASS SAMPLES SUBJECTED TO TENSILE DEFORMATION
OA-2067 N64-33075 24-33

TENSOMETER
UTILIZING A TRANSDUCER & TENSOMETER TO MEASURE PRESSURES OF JETSTREAMS
JPRS-23920 N64-17713 09-15

TENSOR
ELECTRIC FIELD GRADIENT TENSOR AT IRON NUCLEUS IN FERROUS COMPOUNDS
AD-425685 N64-12990 04-09

MATERIAL MOMENTUM-ENERGY TENSORS AND CALCULUS OF VARIATIONS
RM-3993-PR N64-21916 15-20

TENSOR METHODS AND UNIFIED REPRESENATION THEORY OF SYSTEMATIC UNITARY SYMMETRY
UR-875-38 N64-25826 17-23

TENSOR GREEN FUNCTION OF RECTANGULAR WAVEGUIDE AND CAVITY N64-29459 21-09

COMMUTATION RELATIONS FOR ENERGY-MOMENTUM TENSOR
ARL-64-165 N64-30952 22-23

GENERAL THEOREM FOR TENSOR PHYSICAL PROPERTIES OF GRAIN ORIENTED METALS
DP-927 N64-33603 24-18

TEPHIGRAM
S ATMOSPHERIC PRESSURE

TERBIUM
ENERGY TRANSFER BETWEEN RARE EARTH IONS IN TERBIUM-EUROPIUM TUNGSTATES N64-27991 20-25

ENERGY TRANSFER BETWEEN SAMARIUM, EUROPIUM, TERBIUM, AND DYSPROSIUM IONS IN SODIUM RARE EARTH TUNGSTATES N64-27992 20-25

TERMINAL
PERFORMANCE OF TRANSPORTABLE PASSIVE SATELLITE COMMUNICATIONS TERMINAL
RADC-TDR-62-502 N64-21412 14-10

TELEMETRY DIGITAL OUTPUT TERMINAL FOR DATA PROCESSING, PREPARATORY TO REAL TIME ANALYSIS
ERDA-117 N64-25208 17-08

MICROWAVE TRANSPORTABLE SATELLITE COMMUNICATION LINK TERMINAL
FR-64-19-87 N64-27421 19-10

TERNARY ALLOY
MELTING OF BINARY AND TERNARY ALLOYS OF TUNGSTEN, MOLYBDENUM, AND RHENIUM N64-12448 04-18

THERMAL, X-RAY, AND MICROSCOPIC ANALYSIS OF PHASE DIAGRAM FOR TERNARY ALLOYS OF IRON, ALUMINUM, AND URANIUM
MCW-TR-1 N64-12907 04-18

SINTERING AND FABRICATION IMPROVEMENTS FOR TERNARY ALLOYS - TUNGSTEN BASE SHEET ALLOY
QPR-3 N64-19626 12-18

PHASE DIAGRAM OF URANIUM-PLUTONIUM AT TEMPERATURES BELOW 635-DEG C WITH LESS THAN 50 ATOMIC PERCENT CARBON
ANL-6435 N64-28110 20-18

TERRAIN
SA TOPOGRAPHY
TERRAIN ANALYSIS AND GEOGRAPHIC STUDY BY AERIAL PHOTOGRAPHS
JPRS-19424 N64-11350 02-12

TERRAIN QUANTIFICATION - SURFACE GEOMETRY MEASUREMENTS
AFCRL-63-793 N64-13623 05-12

AIRCRAFT LANDING LOADS AND TERRAIN ROUGHNESS EFFECTS ON PERFORMANCE
TRECOM-TR-63-68 N64-15596 07-04

TOPOGRAPHIC LUNAR MAP WITH LISTING OF NAMED FEATURES N64-16443 08-05

RANDOM PHASE ERRORS ON RESPONSE OF IDEALIZED SYNTHETIC-APERTURE MAPPING RADAR WITH HOMOGENEOUS ROUGH TERRAIN TARGET
TDR-269/9990/-4 N64-17360 09-08

IMAGE DESIGN FOR TERRAIN-MAPPING RADAR SYSTEMS
SSD-TDR-64-94 N64-20859 14-08

AUTOMATIC TERRAIN INFORMATION PROCESSING SYSTEM N64-22836 16-21

EFFECTS OF TERRAIN AND WEATHER CONDITIONS ON AIRBORNE DOPPLER RADAR NAVIGATION SYSTEM
RD-64-15 N64-23238 16-22

RADAR REFLECTION PROPERTIES OF TERRAIN - RADAR

CROSS SECTION PER UNIT AREA N64-24296 17-08

BEVERAGE ANTENNA PERFORMANCE AS FUNCTION OF ELEVATION ANGLE, FREQUENCY, ARRAY RADII, AND GROUND CONSTANTS
REPT.-3 N64-27525 19-08

EVALUATION OF ROUGH TERRAIN SURFACES
TRECOM-TR-64-19 N64-30166 21-12

ATMOSPHERIC AND TERRAIN EFFECTS ON ACOUSTIC PROPAGATION N64-32263 23-23

TERRAIN FOLLOWING AIRCRAFT
INFORMATION REQUIREMENTS AND PERFORMANCE CAPABILITES OF HUMAN OPERATOR FOR CONTROLLING AIRCRAFT IN LOW ALTITUDE TERRAIN FOLLOWING FLIGHT
CAL-IH-1715-E-5 N64-16489 08-14

SIMULATION OF NEW CONTROL CONCEPT FOR AUTOMATIC TERRAIN FOLLOWING IN HIGH SPEED, LOW ALTITUDE AIRCRAFT PENETRATION
FDL-TDR-64-104 N64-29975 21-06

TERRESTRIAL DUST BELT
S DUST

TERRESTRIAL MAGNETISM
SA GEOMAGNETISM
NEW METHOD OF SOLVING RADIO WAVE PROPAGATION PROBLEMS IN MAGNETOIONIC MEDIA - IONOSPHERIC FOCUSING IN TERRESTRIAL MAGNETIC FIELD
AFCRL-63-945 N64-17861 10-12

TERRESTRIAL RADIATION
TIROS III SATELLITE DATA ON TERRESTRIAL RADIATION AND REFLECTED AND SCATTERED SOLAR RADIATION
NASA-CR-56033 N64-20606 13-21

MODEL FOR DETERMINING RADIATION BALANCE OF EARTH N64-23861 16-12

TERRESTRIAL RADIATION BELT IN REGION OF BRAZILIAN MAGNETIC ANOMALY N64-31534 23-12

TESSERAL HARMONICS
COMPUTATION OF TESSERAL HARMONICS IN GEOPOTENTIAL FIELD N64-14850 06-12

EFFECTS OF TESSERAL HARMONICS OF EARTH GRAVITY POTENTIAL ON CIRCULAR POLAR AND EQUATORIAL SATELLITE ORBITS
SSD-TDR-63-284 N64-15593 07-29

NOMENCLATURE AND FORMS OF EARTH GRAVITY POTENTIAL
TDR-269/4550-10/-5 N64-16875 08-12

REDUCED CAMERA OBSERVATIONS OF ARTIFICAL SATELLITES FOR OBTAINING COEFFICIENTS OF TESSERAL AND SECTORIAL HARMONICS OF GEOPOTENTIAL AND FOR CORRECTIONS TO TRACKING STATION COORDINATES N64-28121 20-05

TEST
S ALTITUDE TEST
S COLD WEATHER TESTING
S COMPRESSION TESTING
S DESTRUCTIVE TESTING
S DROP TEST
S ELECTRONIC EQUIPMENT TESTING
S FATIGUE TEST
S FLIGHT TEST
S FUEL TESTING
S FUNCTION TEST
S GROUND TEST
S IMPACT TEST
S LOAD TEST
S MATERIAL TESTING
S MISSILE TEST
S NONDESTRUCTIVE TESTING
S PROPELLANT TESTING
S STATIC TESTING

TEST EQUIPMENT
SEMIAUTOMATIC RUPTURE MODULUS TESTER FOR VACUUM OR INERT ATMOSPHERE
NASA-RP-50 N64-10075 01-23

MULTISYSTEM TEST EQUIPMENT - EVALUATION, DESIGN, & DEVELOPMENT
ATE-MTE-5 N64-13898 05-06

CHAMBER FOR TESTING PUMPING SPEEDS OF VARIOUS COMBINATIONS OF PUMPING SYSTEMS
AEDC-TDR-63-260 N64-14973 06-17

TEST APPARATUS FOR DEVELOPMENT OF OSMOTIC STILL TO REMOVE POTABLE WATER FROM ELECTROLYTES IN DUAL MEMBRANE FUEL CELLS
NASA-CR-55699 N64-16276 08-06

CONSTRUCTION AND PERFORMANCE OF STANDARD AND SINTERED ELECTRODES, DESIGN OF IMMERSION BATH TEST APPARATUS FOR DUAL MEMBRANE FUEL CELL IMPROVEMENT
NASA-CR-55700 N64-16277 08-06

MATERIALS AND SINTERED ELECTRODE TESTING, FUEL CELL DESIGN, AND CHECKOUT OF TEST RIG FOR OSMOTIC STILL AND DUAL MEMBRANE FUEL CELL
NASA-CR-55702 N64-16278 08-06

DESIGN SPECIFICATIONS, TEST RIG, AND MEMBRANE PERFORMANCE FOR OSMOTIC STILL - CELL TESTING AND ASSEMBLY FOR DUAL MEMBRANE FUEL CELL
NASA-CR-55696 N64-16319 08-06

EXPERIMENT DESIGN AND APPARATUS FOR TORSIONAL SHEAR TEST OF ADHESIVES
ERR-FW-134 N64-16627 08-33

GENERAL PURPOSE TEST RIG FOR ALKALI METAL LUBRICATED BEARINGS AND DESIGN AND FABRICATION OF JOURNAL BEARINGS
R-5438, PT. 1 N64-17653 09-17

SUNFLOWER SOLAR RANKINE SYSTEM DEVELOPMENTAL TEST RIGS, MERCURY COMPATABILITY, AND CORROSION PRODUCT TRAPPING EXPERIENCE
ER-5302 N64-18337 10-06

AUTOMATIC TEST SYSTEM FOR RELAYS N64-19528 12-17

INSTRUMENTATION FOR MASS RELAY LIFE TESTING N64-19537 12-17

TEST EQUIPMENT TO MEASURE DEGRADATION OF ELECTRONIC DEVICES FOR LIFE PREDICTION
WP-2643-7 N64-19856 12-15

APPARATUS FOR STRESS-RUPTURE TESTING OF FILAMENTS UNDER CONTROLLED CONDITIONS OF ATMOSPHERE, STRESS, AND TEMPERATURE
NASA-RP-165 N64-20019 13-15

PROTECTION OF TEST EQUIPMENT CIRCUITS FROM EXCESSIVE LOADS N64-20245 13-09

OPERATION AND CALIBRATION MANUAL FOR LUNAR SOIL PROPERTIES MEASURING DEVICE /LSPMD/ TEST CONSOLE
NASA-CR-56174 N64-20812 14-29

TEST EQUIPMENT FOR TESTING FLOATED GYROSCOPE
FTD-TT-62-1230/1&2 N64-22167 15-15

BENCH-MAINTENANCE TEST SET FOR SPACECRAFT INSTRUMENTATION SYSTEM
AIAA PAPER-64-331 N64-23228 16-30

ACOUSTIC ENVIRONMENT OF SONIC FATIGUE MAIN TEST CHAMBER
FDL-TDR-64-26 N64-24945 17-23

CORROSION TEST LOOP FOR EVALUATION OF REFRACTORY ALLOYS IN BOILING POTASSIUM ENVIRONMENT
NASA-CR-54081 N64-25005 17-18

LOW TEMPERATURE CENTRIFUGAL COMPRESSOR TEST RIG
NRC-7776 N64-25199 17-15

TEST EQUIPMENT FOR ELECTRICALLY SUSPENDED GYROSCOPES IN GIMBALED AND STRAPDOWN MODES
MH-2941-FRI N64-25359 17-15

IMPROVEMENT OF SHORT-ARC WIND TUNNEL BY ROTATING ARC IN HIGH COMPRESSION CHAMBER N64-26142 18-11

PORTABLE BATTERY POWERED TEST EQUIPMENT FOR MEASUREMENT OF ELECTRONIC PROPERTIES OF SEMICONDUCTOR DEVICES
REPT.-3 N64-28740 20-09

INTERNATIONAL COOPERATION ON TEST EQUIPMENT, INSTRUMENTATION, POWER SUPPLY, AND ANALYSIS FOR PROGRAM ON TWO-PHASE FLOW
GEAP-4367 N64-29622 21-11

ELECTRICAL, THERMAL, AND MAGNETIC EFFECTS IN SUPERCONDUCTORS - DESIGN OF EXPERIMENTS AND TEST APPARATUS
DYNATECH-485 N64-29625 21-25

TESTING SYSTEM STIFFNESS EFFECTS ON FRACTURE OF CRACKED SHEET SPECIMENS
ML-TDR-64-150 N64-29937 21-18

ULTRASONIC TEST METHOD AND EQUIPMENT FOR THIN WALL TUBING - ZIRCALOY SHEATH TUBING
HW-81957 N64-30801 22-17

IMPROVED ULTRASONIC BOND INSPECTION EQUIPMENT
AMRA-TR-63-16 N64-31184 22-17

MULTISYSTEM TEST EQUIPMENT FOR FIELD MAINTENANCE SUPPORT OF MISSILE SYSTEMS
ATE-MTE-23 N64-31257 22-10

TEST EQUIPMENT FOR RUST INHIBITORS
REPT.-64-2039 N64-32444 23-17

ELECTRONIC DESIGN & OPERATIONAL CHARACTERISTICS OF TESTING MACHINE FOR LIQUID AMMONIA RESERVE BATTERY
NAVWEPS-8195 N64-33862 24-06

TEST FACILITY
SA LABORATORY
SA SIMULATOR
SA WIND TUNNEL
FACILITIES, PROCEDURES, & EARLY ROCKET LAUNCHES AT ROCKET TEST AND LAUNCH STATION - ANDOYA, NORWAY
FFIT-E-13 N64-12251 03-10

FACILITY FOR TESTING SINGLE-STAGE AXIAL COMPRESSOR BLADES
K-1568 N64-13222 04-10

HIGH SPEED AXIAL COMPRESSOR TEST FACILITY
VKI-TM-17 N64-16947 09-10

CONSTRUCTION OF SNOW GROUND FACILITIES IN GREENLAND
TR-121 N64-16954 09-10

NEW CONTROL AND DATA ACQUISITION INSTRUMENTATION FOR VESTIBULAR RESEARCH IN CENTRIFUGE-SLOW ROTATION ROOM FACILITY
NASA-CR-53341 N64-17788 09-10

MISSION AND OPERATION OF AIR FORCE FLIGHT TEST CENTER GROUND SUPPORT AND TEST FACILITY SYSTEMS
FTC-TIH-63-2003 N64-20151 13-10

FACILITY FOR TESTING ROCKET ENGINE PERFORMANCE AT HIGH ALTITUDE SIMULATED CONDITIONS
NASA-TM-X-969 N64-23329 16-30

SUPERSONIC COMPRESSOR FOR HIGH ENTHALPY TEST FACILITY
ARL-64-64 N64-24933 17-10

LABORATORY FOR TESTING ENGINES AND ENGINE COMPONENTS N64-25390 17-10

TEST FACILITIES FOR AIRCRAFT ENGINES UNDER GROUND CONDITIONS N64-25391 17-10

TEST FACILITY FOR INVESTIGATING BOILING OF SODIUM AND POTASSIUM
NASA-CR-54050 N64-28744 20-13

HIGH VOLTAGE HIGH POWER RESEARCH FACILITY FOR ELECTRONIC COMPONENT EXPERIMENTATION AND TESTING
E8-5296-0359-3 N64-30059 21-10

FACILITY FOR TESTING ROCKET PROPULSION SYSTEMS USING HIGH ENERGY, TOXIC, HYPERGOLIC PROPELLANTS UNDER SIMULATED SPACE ENVIRONMENT
RTD-TDR-63-1083 N64-31171 22-10

HIGH TEMPERATURE LABORATORY FOR CREEP TESTING AND STRAIN MEASURING AND RECORDING
AD-602230 N64-32067 23-10

SPACECRAFT ENVIRONMENTAL ACOUSTIC TEST FACILITY - LISTENING FATIGUE AND COMFORT
AD-442827 N64-32376 23-16

TEST FACILITY FOR SIMULATION OF LIQUID IMPACT IN SPACE VEHICLE AND BOOSTER TANK
NASA-CR-59016 N64-32897 24-11

PARACHUTE DESIGN AND PERFORMANCE DATA ON ROCKET-POWERED SLED TESTS - HIGH DYNAMIC PRESSURE OPERATION
FDL-TDR-64-66 N64-33270 24-04

TEST METHOD
CODE FOR ROUTINE TESTING OF AXIAL FLOW, MULTISTAGE COMPRESSORS
ARC-R&M-3337 N64-13357 04-15

METHODS OF TESTING & MEASUREMENT OF NONORGANIC HEARING IMPAIRMENT
AD-425085 N64-13615 05-16

ACCELERATED AND CONSTANT STRESS TESTING FOR FAILURE ANALYSIS OF FILM RESISTORS AND PLANAR TRANSISTORS N64-20979 14-09

TEST METHODS FOR INDICATING SOURCES OF FAILURE IN MICROELECTRONIC DEVICES N64-20981 14-09

STANDARD TESTS FOR LAMINAR FLOW DEVICES
SC-TM-64-637 N64-25291 17-11

TEST METHODS FOR NOTCH STRENGTH AND FRACTURE TOUGHNESS OF SHEET METALS AND ALLOYS
AMRA-TR-64-04 N64-25329 17-10

TESTING AIR BREATHING ENGINES
FTD-TT-63-233/1&2 N64-25386 17-27

TEST METHODS FOR AIR BREATHING ENGINES N64-25392 17-10

METHOD OF TEST AND RESULTS FOR PITCH AND YAW ON CAMBERED OGEE WING AT SUPERSONIC SPEEDS
ARC-R&M-3355 N64-25495 17-03

CRYOGENIC TEST-MASS SUSPENSION FOR SENSITIVE ACCELEROMETER
NASA-CR-56887 N64-27883 20-15

LUBRICATION RESEARCH AND TESTING METHODS FOR AEROSPACE PROPULSION SYSTEM
APL-TDR-64-50 N64-28276 20-17

ITERATIVE METHOD FOR DETERMINING VALUE OF CARRYING OUT A PARTICULAR TEST
EUR-1824.I N64-28676 20-01

WIND TUNNEL TEST METHODS FOR DYNAMIC MODEL N64-29256 21-33

NUCLEAR ROCKET TESTING
NASA-CR-52945 N64-29784 21-27

LIQUID SCINTILLATION COUNTING APPLIED TO RADIOMETRIC TOOL TESTING
RIA-64-729 N64-32251 23-17

FIELD TESTS TO REDUCE VIBRATION EFFECTS IN JET ENGINES
AD-603141 N64-33795 24-33

TEST PROCEDURES FOR MULTIPLE COMPARISONS OF MEAN VECTORS WITH MULTIVARIATE NORMAL PARENT POPULATIONS OF KNOWN OR UNKNOWN COVARIANCE MATRIX
ARL-64-124 N64-33953 24-33

TEST PROGRAM
TEST PROGRAMS & SUPPORT SYSTEMS FOR ORBITING GEOPHYSICAL OBSERVATORY
AIAA PAPER-63-065 N64-10077 01-17

TELSTAR SATELLITE TEST AND EVALUATION PROGRAM
N64-10878 02-30

ARTIC LOW TEMPERATURE TEST OF YUH-1D HELICOPTER
ASD-TDR-63-564 N64-12680 04-06

ACCEPTANCE TESTING FOR RELIABILITY ANALYSIS OF RELAYS N64-19512 12-17

PROGRAM TO DETERMINE CHARACTERISTIC LIFE PROFILES OF ELECTROMAGNETIC AND THERMAL TIME DELAY RELAYS
N64-19516 12-09

TEST CRITERIA FOR RELIABILITY EVALUATION OF RELAYS
N64-19519 12-09

AUTOMATIC TESTING OF RELAYS FOR IMPROVED QUALITY CONTROL N64-19522 12-17

TEST PROGRAM FOR PERFORMANCE CHARACTERISTICS OF MINIATURE DOUBLE-POLE DOUBLE-THROW POWER RELAYS
REPT.-2551-A N64-20142 13-09

FAST REACTOR TEST /FARET/ PROGRAM
ANL-6708 N64-20667 13-23

STRATEGIC AIR COMMAND DATA PROCESSING AND CONTROL SYSTEM TEST PLAN
ESD-TDR-64-197 N64-21216 14-10

TEST PROGRAM FOR AIR BREATHING JET ENGINES
N64-25387 17-27

LIFE CYCLE TESTING OF 5 AND 10 CELL BATTERIES
NASA-CR-56475 N64-27887 20-06

BATTERY LIFE CYCLE TEST RESULTS
NASA-CR-56416 N64-27913 20-06

TEST PROGRAM FOR MINUTEMAN ICBM MAINTENANCE GROUND EQUIPMENT - ELECTRONIC EQUIPMENT TESTING
REPT.-00-264997 N64-27916 20-10

SCALE MODEL TEST PROGRAM FOR HAYSTACK PROJECT ANTENNA N64-29267 21-33

DYNAMIC MODEL TESTING OF XC-142A AIRCRAFT
N64-29273 21-33

AIRFRAME STRUCTURAL TESTING N64-29274 21-33

TEST PLAN FOR X-22A AIRCRAFT - DESCRIPTIONS AND SPECIFICATIONS FOR PROPULSION SYSTEM, FLIGHT CONTROL, HYDRAULIC SYSTEM, ELECTRIC SYSTEM, AND INSTRUMENTATION
REPT.-2127-931001 N64-31306 22-04

TELEPHONE CHANNEL MONITOR - TEST PROGRAM
SDL-1195 N64-31946 23-08

VEHICLE CORROSION PREVENTIVES FIELD TEST IN DETROIT AREA - AIRLESS SPRAY UNIT
RIA-64-661 N64-32167 23-17

WIND TUNNEL TEST PROGRAM FOR GLIDING PARACHUTE MODELS
PTM-754 N64-32423 23-04

ION ROCKET SYSTEM - ENGINES AND ELECTRODE MATERIAL TEST PROGRAM
NASA-CR-59020 N64-33285 24-27

TEST REACTOR
TEST REACTOR OPERATION AND SAFETY EXPERIENCE
HW-172/VOLS. 1&2/ N64-13906 05-10

TEMPERATURE CONTROL SYSTEMS FOR IRRADIATION EXPERIMENTS IN TEST REACTORS
NRL-1486 N64-25088 17-23

REACTIVITY TEST ASSEMBLY - HETEROGENEOUS LIGHT-WATER UNPRESSURIZED ENRICHED SYSTEM OPERATING AS ZERO POWER REACTOR
NARF-62-14T N64-28908 20-10

TEST VEHICLE
SA DRONE
TEST VEHICLE FOR STUDY OF INTERACTION OF HIGH POWER ELECTRON BEAM WITH PLASMA COMPOSITION
N64-13792 04-24

PROPULSION OF TEST VEHICLE IN TUBE - FLOW DISTURBANCES & ENERGY TRANSFORMATIONS
TR-AE-6404 N64-22895 16-27

THERMAL TESTING OF NONNUCLEAR SYSTEM PROTOTYPE OF SNAP 10A - SYSTEM FOR NUCLEAR AUXILIARY POWER
NAA-SR-9280 N64-26522 18-06

TESTING
S PSYCHOLOGICAL TESTING

TETHERLINE
DYNAMICS OF RETRIEVAL OF ASTRONAUT ON TETHERLINE
AIAA PAPER-64-393 N64-21372 14-29

SIMULATION OF CONTROLLED TETHERLINE OPERATIONS IN SPACE
MP-1266 N64-23650 16-14

TETRACYCLINE
TETRACYCLINE AND RARE EARTH METAL CHEMISTRY
JPRS-22766 N64-13585 05-01

TETRAFLUOROHYDRAZINE
ANALYSIS OF TETRAFLUOROHYDRAZINE BY GAS CHROMATOGRAPHY AND INFRARED SPECTROPHOTOMETRY
REPT.-144-QR N64-33971 24-26

TETRAHEDRON
INFLUENCE OF LIGAND ON STEREOCHEMISTRY OF BIVALENT NICKEL AND OTHER FIRST-ROW TRANSITION METAL COMPLEXES WITH SCHIFF BASES
FTR-1 N64-30884 22-07

THALLIUM
REACTION KINETICS OF OXIDATION OF URANIUM IV BY THALLIUM III IN AQUEOUS PERCHLORIC ACID SOLUTIONS
SC-4972/RR/ N64-16697 08-07

THERMAL AND OPTICAL EXTERNAL QUENCHING OF PHOTOLUMINESCENCE IN POTASSIUM IODIDE-THALLIUM SYSTEMS
FTD-MT-63-29/1&2 N64-18666 11-25

ASEPTIC INFLAMMATION OF CORNEA UNDER INFLUENCE OF BETA RADIATION FROM RADIOACTIVE THALLIUM
JPRS-24936 N64-21285 14-16

INDUSTRIAL SAFETY IN PRODUCTION OF METALLIC THALLIUM AND ITS SALTS
JPRS-25206 N64-23257 16-16

SPECTRA OF GALLIUM-THALLIUM IODIDE FLASH LAMP
AD-437572 N64-24231 16-09

OXIDATION OF URANIUM B THALLIUM IN AQUEOUS CHLORIDE SOLUTION
SC-RR-64-552 N64-26639 18-07

PRESSURE EFFECT ON METALLURGICAL PHENOMENA - TRANSFORMATIONS IN THALLIUM ALLOY SYSTEMS
NASA-CR-58492 N64-28829 20-18

PRESSURE-TEMPERATURE DIAGRAM OF SOLID THALLIUM
N64-30799 22-25

THEODOLITE
DIGITAL RECORDING AND PROCESSING OF FLIGHT PATH DATA FROM THEODOLITE AND RADAR MEASUREMENT VALUES
N64-10235 01-22

SATELLITE OBSERVATIONS WITH CINETHEODOLITE, OF MIDAS III, EXPLORER XVI, AND EXPLORER XVII SATELLITES N64-17273 09-08

KINETHEODOLITE SATELLITE OBSERVATIONS
N64-19287 11-32

SATELLITE OBSERVATIONS FROM TRACKING STATION THEODOLITE FILMS N64-21197 14-08

SATURN LAUNCH VEHICLE LONG RANGE AZIMUTH ALIGNMENT THEODOLITE
NASA-CR-58047 N64-27268 19-15

EPHEMERIS CONTAINING OBSERVATIONS OF SATELLITES & LAUNCH VEHICLES N64-30860 22-08

EPHEMERIS CONTAINING OBSERVATIONS OF VARIOUS ORBITING OBJECTS N64-30862 22-08

EPHEMERIS OF THEODOLITIC SATELLITE OBSERVATIONS N64-30869 22-08

THEODOLITE OBSERVATIONS OF MIDAS III AND V, ALOUETTE, ANNA, AND STARAD SATELLITES - JUNE 1964 N64-33251 24-08

KINETHEODOLITE OBSERVATIONS OF MIDAS VI AND VII, EXPLORER XVII AND XIX, ATLAS AGENA B, ECHO II, AND POLJET I SATELLITES N64-33252 24-08

KINETHEODOLITE OBSERVATIONS OF EXPLORER XVI, AGENA, AND MIDAS V, VI, VII SATELLITES - DECEMBER 1963 N64-33253 24-08

THEODORSEN TRANSFORMATION
NUMERICAL INTEGRATION OF THEODORSEN TRANSFORMATION BY COMPUTER PROGRAM
ARC-CP-691 N64-25169 17-20

THEOREM
S ADDITION THEOREM
S FOULIS THEOREM
S MICHELL THEOREM
S TAYLOR THEOREM
S UNIQUENESS THEOREM

THEOREM PROVING
VARIATIONAL TECHNIQUES TO OBTAIN SHORT PROOF OF RIESZ THEOREM OF LINEAR INEQUALITIES
RM-4149-PR N64-29665 21-20

THEOREM PROVING IN COMMUTATIVE ALGEBRAS - HOPF ALGEBRA
AROD-1913-6 N64-31654 23-20

THEOREM ON DISTRIBUTION OF INTERNAL FORCES OF MAXWELL GAS BASED ON GAUSS-HERTZ PRINCIPLES OF MECHANICS
MD-63-8 N64-33313 24-23

THEORETICAL PHYSICS
INCOMPATIBILITY OF EXACT & APPROXIMATE SOLUTIONS TO BOOTSTRAP THEORY USING SOLVABLE MODEL - THEORETICAL PHYSICS OF HIGH ENERGY INTERACTIONS N64-13044 04-23

BOOTSTRAP EQUATIONS FOR P1-N SYSTEM EVALUATION OF N & N33 N64-13290 04-23

TEXTBOOK FOR COURSE IN THEORETICAL MECHANICS
NASA-TT-F-8015 N64-15931 07-23

NUCLEAR PHYSICS RESEARCH, SOLID STATE STUDIES, AND THEORETICAL PHYSICS
PR-P-60 N64-16190 08-23

THEORETICAL AND EXPERIMENTAL STUDIES ON ATOMIC AND MOLECULAR SPECIES AND THEIR REACTION & EXCITATION MECHANISMS
NASA-CR-53100 N64-16737 08-23

PHONON-ELECTRON INTERACTION AND CONDUCTIVITY OF IMPURITY BANDS - THEORETICAL PHYSICS
TSR-3 N64-22228 15-23

THEORETICAL ANALYSIS OF UTILIZING OXYGEN HORIZON FOR VERTICAL SENSING
AFCRL-64-141 N64-25598 17-30

GENERATION OF BARYONS & RESONANCES IN BROKEN UNITARY SYMMETRY
TH-62 N64-26565 18-23

EXACT SOLUTION OF SCHROEDINGER EQUATION FOR INVERSE FOURTH POWER POTENTIAL
UR-875-23 N64-26683 18-20

ELECTROMAGNETIC MASS DIFFERENCES IN UNITARY SYMMETRY MODEL
UR-875-26 N64-26684 18-23

THEORY
S COMMUNICATION THEORY
S CONVOLUTION THEORY
S DISTURBANCE THEORY
S DYNAMO THEORY
S FIELD THEORY
S FLOW THEORY
S GAME THEORY
S GRAVITATION THEORY
S GROUP THEORY
S HANSEN LUNAR THEORY
S INFORMATION THEORY
S KARMAN THEORY
S KINETIC THEORY
S MANY-PARTICLE THEORY
S MEMBRANE THEORY
S MINKOWSKI THEORY
S MOLECULAR THEORY
S NEWCOMB DERIVATIVE
S NUMBER THEORY
S PARTICLE THEORY
S PERTURBATION THEORY
S PISTON THEORY
S PLASMA THEORY
S POTENTIAL THEORY
S PREDICTION THEORY
S PROBABILITY THEORY
S QUANTUM THEORY
S RELATIVITY THEORY
S RELIABILITY THEORY
S SET THEORY
S SPECTRAL THEORY
S STATISTICAL DECISION THEORY
S THOMAS-FERMI THEORY
S TRANSPORT THEORY

THERAPY
SA CHEMOTHERAPY
SA ELECTRONARCOSIS
SA RADIATION THERAPY
TECHNIQUES AND METHODS OF CONDUCTING PHYSIOTHERAPEUTIC PROCEDURES
JPRS-21725 N64-10050 01-16

SOVIET MEDICINE - VASCULAR SURGERY, METABOLISM, HYPERTENSION, AND THERAPEUTIC UNDERWEAR
JPRS-17498 N64-10683 02-16

PATHOLOGICAL PHYSIOLOGY AND EXPERIMENTAL THERAPY - RADIATION SICKNESS, CONGENITAL DISEASE, AND HETEROHEMOTRANSFUSION REACTIONS
JPRS-17819 N64-10723 02-16

ELECTRICAL STIMULATION AS THERAPEUTIC APPARATUS FOR ULTRASONIC PHYSIOTHERAPY
JPRS-22280 N64-11871 03-16

PROBLEMS OF PATHOGENESIS, DISEASE PREVENTION, & THERAPY OF RADIATION INJURY N64-12804 04-16

ANTIBIOTIC THERAPY OF RADIATION SICKNESS IN MICE - STREPTOMYCIN EFFECTIVENESS, TREATMENT TIMING, HINDERING FACTORS, AND DETOXICATING MIXTURE
JPRS-22625 N64-13161 04-16

RADIATION MEDICINE - THERAPEUTIC PASTE FOR TREATMENT OF RADIATION LESIONS N64-15678 07-16

CARDIORESPIRATORY RESPONSES OF ANESTHETIZED DOGS TO COMPRESSION THERAPY FOLLOWING EXPERIMENTAL DECOMPRESSION SICKNESS
SAM-TDR-63-94 N64-15744 07-16

FOUR EXPERIMENTAL STUDIES ON RADIATION SICKNESS THERAPY FOR ANIMALS
JPRS-23678 N64-16694 08-16

RADIATION PROTECTION AND THERAPY FOR RADIATION SICKNESS - GALLATE THERAPY
JPRS-23834 N64-17555 09-16

BENEFICIAL USES OF RADIATION EFFECTS - POWER, ILLUMINATION, RADIOGRAPHY, TELETHERAPY, AND TRACER TECHNOLOGY
REIC MEMO-25 N64-24967 17-16

FAST NEUTRON SPECTRUM AND DOSIMETRY OF REACTOR MEDICAL THERAPY FACILITY BEAM
MITNE-47 N64-25472 17-16

MICROWAVE TREATMENT OF DISEASES
JPRS-26038 N64-27670 19-16

DERMATOLOGICAL EFFECTS OF AIRCRAFT FUEL AND THERAPY
JPRS-16055 N64-28631 20-16

APPARATUS FOR SYNCHRONIZED TREATMENT OF BIOLOGICAL ORGANISMS WITH PULSE MODULATED MICROWAVES
N64-30396 22-16

NEUTRON CAPTURE THERAPY - MEDICAL APPLICATION
ANL-6910 N64-33962 24-23

THERMAL ACCOMMODATION COEFFICIENT
THERMAL ACCOMMODATION COEFFICIENTS OF DIATOMIC GASES - CALCULATIONS FOR SOME SPECIAL CASES
A&ES-63-2 N64-16287 08-23

THERMAL DECOMPOSITION
SEPARATION OF GASEOUS MIXTURES OF URANIUM AND PLUTONIUM HEXAFLUORIDES BY THERMAL DECOMPOSITION
ANL-6762 N64-10219 01-19

THERMAL DECOMPOSITION OF SINGLE CRYSTALS OF GALLIUM ARSENIDE
TDR-269/4250-11/-1 N64-12051 03-25

THERMAL DECOMPOSITION OF CYCLOHEXADIENEONE PEROXIDE PRODUCING RADICALS N64-12495 04-07

THERMAL DECOMPOSITION AND BURNING OF AMMONIUM PERCHLORATE
FTD-TT-62-1902/1&2&4 N64-15423 07-26

THERMAL DECOMPOSITION PRESSURE OF BORON PHOSPHIDE USING HYDROGEN AS CARRYING GAS N64-17345 09-07

KINETIC EQUATIONS DESCRIBING THERMAL EXPLOSION OF SELF-HEATING COMPOUNDS DUE TO DECOMPOSITION
NOLTR-63-251 N64-17437 09-26

CHEMICAL CHANGES OF HUMAN WASTE UNDERGOING THERMAL DECOMPOSITION AND GROWTH OF CHLORELLA ON ASH FROM VOLATILIZATION PROCESS
TN-62-13 N64-19556 12-16

KINETICS OF THERMAL DECOMPOSITION OF BIPHENYL IN LIQUID PHASE
ORNL-3602 N64-20494 13-07

EXPLOSIVE REACTIONS IN CONDENSED SYSTEMS - KINETICS OF THE THERMAL DECOMPOSITION OF TRINITROTOLUENE
TIL/T-5435 N64-21400 14-07

KINETICS OF THERMAL & PHOTOCHEMICAL DECOMPOSITION OF SOME ALKALI METAL AZIDES
AD-432035 N64-22207 15-19

PERCHLORIC ACID CONCENTRATION & THERMAL DECOMPOSITION
FTD-TT-63-832/1&2 N64-22662 15-07

THERMAL DECOMPOSITION OF NITROSYL PERCHLORATE
FTD-TT-63-116/1&2&4 N64-23422 16-26

KINETICS OF THERMAL DECOMPOSITION OF SOLID CARBONYL COMPOUNDS OF METALS
FTD-TT-64-220/1&2&4 N64-25468 17-19

THERMAL DECOMPOSITION OF NITROUS OXIDE IN FLOWING SYSTEM - EFFECT OF NITROGEN AND AIR ADDITIVES
ARL-64-107 N64-28574 20-11

DECOMPOSITION KINETICS OF HYDRAZINE USING SINGLE-PULSE SHOCK TUBE
PSU-12-P N64-29799 21-26

THERMAL DECOMPOSITION AND PARTICLE FORMATION OF HYDROCARBON FUELS
ASD-TDR-63-102, PT. II N64-31820 23-26

CATALYSIS OF REACTIONS IN SOLID PHASE - THERMAL DECOMPOSITION OF AMMONIUM PERCHLORATE IN PRESENCE OF FERRIC OXIDE
FTD-MT-63-244 N64-33026 24-07

THERMAL DECOMPOSITION OF HYDRAZINE USING SHOCK TUBE COUPLED TO MASS SPECTROMETER
AR-35-63 N64-33413 24-26

THERMAL DECOMPOSITION OF NITROGEN FLUORINE RADICAL IN SHOCK TUBE COUPLED TO TIME-OF-FLIGHT MASS SPECTROMETER
AR-IS-64 N64-33494 24-07

THERMAL DEGRADATION
TEMPERATURE EFFECT ON FATIGUE BEHAVIOR OF MATERIAL FOR SUPERSONIC TRANSPORT
LR-17129 N64-14009 05-33

BIBLIOGRAPHY - THERMAL DEGRADATION, OXIDATION, & ANALYSIS OF POLYMERS
PLASTEC NOTE 7 N64-14313 06-19

THERMAL DEGRADATION AND BURST PRESSURE OF B-58 AIRCRAFT WINDSHIELDS
FTDM-2861 N64-16634 08-19

THERMAL DEGRADATION OF POLYMERIC MATERIALS IN SPACE ENVIRONMENT
NASA-CR-55846 N64-16769 08-19

VACUUM SYSTEM AND DISTILLATION APPARATUS TO CONCENTRATE SOLUTIONS OF THERMAL DEGRADATION PRODUCTS RESULTING FROM GAMMA RADIATION IN RESINS
K-1594 N64-20481 13-07

COLUMN ELUTION FRACTIONATION & THERMAL DEGRADATION OF POLYOXYPROPYLENE GLYCOL-TOLUENE DIISOCYANATE POLYMERS
NASA-CR-53993 N64-20609 13-07

GAS FLOW DIFFERENTIAL THERMAL ANALYZER FOR STUDY OF THERMAL DEGRADATION OF HIGH POLYMERS
REPT.-379 N64-24957 17-13

CARBON AS TRACER FOR THERMAL DEGRADATION STUDIES OF POLYURETHANS
NASA-CR-58348 N64-28968 20-07

THERMAL DEGRADATION OF PYROMELLITIMIDE POLYMER IN AIR AND VACUUM BY THERMOGRAVIMETRY - RATES AND ACTIVATION ENERGIES
TG-529 N64-32099 23-07

THERMAL DIFFUSION
CF HEAT TRANSFER
ANISOTROPY OF THERMAL NEUTRON DIFFUSION CONSTANT IN POLYMETHYL METHACRYLATE WITH EMPTY CHANNELS
NIJS-R-413 N64-11398 02-23

UNSTEADY STATE ANALYSIS IN THERMAL DIFFUSION CELL AND DETERMINATION OF DIFFUSION COEFFICIENT AND SORET COEFFICIENT
MLM-1167 N64-13343 04-13

GEOMETRICAL ASPECTS OF DIFFUSION PROPAGATION WHICH GOVERN ACOUSTIC BEHAVIOR OF GAS-FILLED CHAMBERS AT INFRASONIC FREQUENCIES
NOLTR-63-139 N64-16882 08-20

TRANSIENT AND SINUSOIDAL THERMAL DIFFUSION, CONVECTION, AND RELATED INFRASONIC PRESSURE CHANGES IN ENCLOSED FLUIDS
NOLTR-62-94 N64-18360 10-11

METHOD FOR DETERMINING THERMAL DIFFUSIVITY OF SOLID PROPELLANTS
P-63-27 N64-18905 11-26

FORTRAN PROGRAMS FOR THERMAL DIFFUSIVITY CALCULATIONS
IS-833 N64-19099 11-20

SEMICONDUCTOR DEVICE DEGRADATION BY SOLID STATE THERMAL DIFFUSION N64-20974 14-25

THERMAL CHARACTERISTICS OF UNSTEADY FLOW THROUGH CIRCULAR PIPE WHOSE TEMPERATURE DEPENDS ON TIME AND FLOW-DIRECTIONAL DISTANCE ONLY
NAL-TR-53 N64-22135 15-13

DIFFUSIVE-THERMAL STABILITY OF LAMINAR FLAME
N64-23685 16-11

HEAT DIFFUSION RATE IN INSULATING MATERIALS USING VERY SHORT IMPULSES
EUR-1822.F N64-28253 20-13

CHEMICAL AND THERMAL DIFFUSION OF URANIUM CARBIDES
BMI-1686 N64-29887 21-18

THERMAL DIFFUSION, ABSORPTION, AND TRANSPORT NEUTRON CROSS SECTIONS FOR WATER, HEAVY WATER, AND BORON
AECL-2072 N64-33266 24-23

THERMAL EFFECT
CROSS CHECK STUDY OF VACUUM COMPATIBILITY OF POLYSTYRENE AND POLYMETHYLMETHACRYLATE - WEIGHT LOSS DETERMINATION
NASA-TM-X-53106 N64-33868 24-19

THERMAL EFFICIENCY
THERMAL EFFICIENCY AND TRANSMISSIVITY OF ABLATING HEAT SHIELD MATERIALS
NASA-TN-D-1896 N64-33601 24-13

THERMAL EMISSION
CALORIMETRIC TEMPERATURE MEASUREMENT OF HEMISPHERICAL THERMAL EMISSION OF SPACECRAFT TEMPERATURE CONTROL SURFACES AT ROOM TEMPERATURE
NASA-CR-56037 N64-20604 13-13

THERMAL ENERGY
SOLID AND LIQUID STATE DIFFERENCES - THERMAL ENERGY, BOUNDARY LAYERS, VISCOSITY, SURFACE TENSION, SINGLE-BOND ENERGY N64-10678 02-23

HYPERSONIC PLASMA GENERATOR FOR THERMAL-TO-ELECTRICAL ENERGY CONVERSION
SC-4960/RR/ N64-13901 05-24

CHARCOAL, WOOD, AND COW DUNG FOR FUEL IN THERMAL ENERGY CONVERSION SYSTEMS
QPR-5 N64-13958 05-06

COMPONENTS OF PORTABLE THERMOPHOTOVOLTAIC ENERGY CONVERTER
TR-64-16, FINAL N64-16789 08-06

THERMOPHOTOVOLTAIC ENERGY CONVERSION SYSTEM USING P-N JUNCTIONS N64-17383 09-06

MULTISOLID FUEL BURNER FOR THERMAL ENERGY CONVERSION TO GENERATE 150 WATTS OF POWER N64-17384 09-06

SYNTHESIS OF NATURAL AMINO ACIDS WITH THERMAL ENERGY FOR BIOCHEMICAL ORIGIN STUDY N64-19588 12-07

THERMAL ENERGY EMISSION MEASUREMENTS IN PLASTIC TENSILE DEFORMATION OF METAL AT LOW TEMPERATURES
D1-82-0311 N64-20637 13-13

SMALL STEAM BOILERS OF MINIMUM SIZE AND WEIGHT FOR SOLID-FUEL-FIRED POWER SOURCE - MULTIFUELED THERMAL-ENERGY-CONVERSION SYSTEM
REPT.-7 N64-22975 16-13

LIGHTWEIGHT SOLAR COLLECTORS FOR CONVERSION OF THERMAL ENERGY TO ELECTRICITY
NASA-RP-223 N64-24556 17-05

HYDROGEN GENERATION BY THERMAL ENERGY
EDR-3714, VOL. II, SUPPL. A N64-24895 17-09

GERMANIUM BOLOMETER DETECTOR OF MILLIMETER WAVELENGTH THERMAL ENERGY N64-25626 17-15

CATALYTIC COMBUSTION HEAT SOURCES FOR THERMAL ENERGY CONVERTERS
F-82088 N64-29914 21-06

THERMAL ENERGY CONVERSION TO ELECTRICITY - ELECTROTHERMALLY REGENERATIVE TRANSDUCER DEVICE
AD-403290 N64-30900 22-06

CATALYTIC COMBUSTION HEAT SOURCES USING LEADED GASOLINE BURNER FOR THERMAL ENERGY CONVERTERS
REPT.-3 N64-32601 23-06

THERMAL EXPANSION
HIGH TEMPERATURE THERMAL EXPANSION OF HAFNIUM CARBIDE, NIOBIUM CARBIDE AND TANTALUM CARBIDE
C-18 N64-14017 05-19

THERMAL EXPANSION MEASUREMENT OF PURE SINTERED CARBIDE SPECIMENS
NASA-CR-55272 N64-14271 06-23

THERMAL EXPANSION OF GRAPHITE
WADD-TR-61-72, VOL. 24 N64-15070 07-19

APPLICATION OF DOUBLE CLAMSHELL ARC IMAGING SYSTEM TO THERMAL EXPANSION & OTHER PHYSICAL PROPERTY MEASUREMENTS OF ALUMINA AND ZIRCON
AFCRL-63-591 N64-15571 07-15

TEMPERATURE DEPENDENCE OF MAGNETOSTRICTION AND COEFFICIENT OF LINEAR EXPANSION OF NICKEL-IRON-CHROMIUM ALLOY
FTD-TT-63-7/1&2&4 N64-19740 12-25

STATIC ATOMIC DISPLACEMENT AND THERMAL EXPANSION MEASUREMENTS OF TITANIUM-NITROGEN COMPOSITE STRUCTURES
C-22 N64-20574 13-25

PRECISE TEMPERATURE MEASUREMENT OF DEBYE-SCHERRER SPECIMENS IN HIGH TEMPERATURE X-RAY DIFFRACTION MEASUREMENT OF THERMAL EXPANSION
LA-2687 N64-21873 15-13

THERMAL EXPANSION AND ELECTRIC RESISTANCE MEASUREMENTS ON CERIUM METAL
BM-RI-6480 N64-23699 16-09

THERMAL EXPANSION OF ZIRCONIUM OXIDE STABILIZED WITH YTTRIUM OXIDE
NASA-CR-56458 N64-24037 16-18

AXIAL THERMAL EXPANSION OF TETRAGONAL ZIRCONIUM DIOXIDE
ARL-64-63 N64-24156 16-13

CANDIDATE MATERIALS ANALYZED FOR AVAILABILITY, BONDABILITY, & THERMAL EXPANSION, AND STRENGTH TO WEIGHT RATIO OF WHISKER COMPOSITES
WVT-RR-6411 N64-28825 20-17

THERMAL EXPANSION OF YTTRIUM OXIDE AND OF MAGNESIUM OXIDE WITH YTTRIUM OXIDE
NASA-CR-58310 N64-28995 20-19

CRYOGENIC TEMPERATURE SYSTEM FOR MEASURING THERMAL EXPANSION OF METALLIC AND NONMETALLIC MATERIALS USED IN LARGE SPACE VEHICLES
NASA-TM-X-53090 N64-33184 24-15

THERMAL INSTABILITY
THERMAL STABILITY OF EXPLOSIVES AT HIGH TEMPERATURES - WENOGRAD TECHNIQUE
S-44 N64-19728 12-26

THERMOACOUSTICAL INSTABILITY OF HETEROGENEOUS GAS FLOW AND NONSTEADY FLUTTER OF PLATES AND SLANTED SHELLS IN GAS FLOWS
FTD-TT-63-204/1&2&4 N64-20367 13-01

THERMOACOUSTICAL INSTABILITY OF HETEROGENEOUS GAS FLOW N64-20368 13-11

RECLAMATION OF THERMALLY UNSTABLE JET FUELS
APL-TDR-64-74 N64-25483 17-26

THERMAL STABILITY OF REFRACTORY AND CERAMIC MATERIALS IN ATOMIC REACTORS, ROCKETS, AND JET ENGINES
NASA-TT-F-9065 N64-31336 22-19

CONVECTIVE INSTABILITY OF HORIZONTAL FLUID LAYER WITH CONSTANT TEMPERATURE GRADIENTS AND DIFFUSIVE SUBSTANCE CONCENTRATION AT BOUNDARIES
MD-63-6 N64-31841 23-11

THERMAL NEUTRON
MANGANESE 56 GAMMA-GAMMA COINCIDENCE COUNTING FACILITY FOR NEUTRON SOURCE ASSAY
ANL-6760 N64-10130 01-19

ANGULAR DISTRIBUTION OF PROMPT FISSION GAMMA RAYS WITH RESPECT TO SELECTED FISSION FRAGMENTS IN THERMAL NEUTRON FISSION OF URANIUM 235
AEET/NP/7 N64-10231 01-23

TWIN ISOTHERMAL RESISTANCE BRIDGE CALORIMETER DETERMINATIONS OF URANIUM-235 AND THERMAL NEUTRON FLUX
UCRL-7489 N64-11304 02-23

HEAVY MASS YIELDS FROM THERMAL NEUTRON FISSION OF URANIUM-233
USNRDL-TR-679 N64-13309 04-23

THERMAL NEUTRON FLUX DISTRIBUTIONS IN CONCRETE-WALLED DUCTS CALCULATED FROM ALBEDO MODEL USING MONTE CARLO TECHNIQUE
ORNL-3507 N64-14246 06-23

DIGITAL COMPUTER CODING METHODS FOR THERMAL NEUTRON SPECTRA
BNL-821/T-319/ N64-14721 06-23

MEASURING GAMMA-RAY SPECTRA FROM THERMAL-NEUTRON CAPTURE
AFCRL-63-341 N64-17856 10-23

DIFFUSION OF THERMAL NEUTRONS AND PHOTONS
MATT-231 N64-18340 10-24

SILICON DETECTOR OF THERMAL NEUTRONS
FTD-TT-64-95/1&2 N64-21970 15-25

RATE AND ENERGY RESPONSE OF RADIATION DOSIMETRY SYSTEMS TO GAMMA RAYS, ELECTRONS, AND FAST AND THERMAL NEUTRONS
S-237-R N64-22507 15-15

USING POLARIZED THERMAL NEUTRONS AND PARITY NONCONSERVATION OF BETA DECAY TO DETERMINE SPIN LEVELS OF COMPOUND NUCLEUS N64-29056 21-23

REGULARITIES IN THERMAL NEUTRON ABSORPTION CROSS SECTIONS
NRL-6124 N64-29958 21-23

PORTABLE NEUTRON GENERATORS IN NUCLEAR GEOPHYSICS - RADIATION DETECTOR, INELASTIC NEUTRON SCATTERING, NUCLEAR RADIATION, AND THERMAL NEUTRONS
FTD-MT-63-283 N64-31776 23-12

PNNL METHOD USED IN OIL FIELDS TO DISTINGUISH CROSS SECTIONS OF GAS AND WATER BEARING BEDS BASED ON LIFETIME OF THERMAL NEUTRONS
N64-31789 23-12

SPACE-TIME DISTRIBUTION OF THERMAL NEUTRONS IN MODEL SAND LAYERS N64-31793 23-12

APPLICATION OF PULSE NEUTRON GENERATOR TO DETERMINE WATER-OIL CONTACT - DENSITY OF THERMAL NEUTRONS N64-31794 23-12

INTERPRETATION OF PULSE NEUTRON-NEUTRON LOGGING - ROCK PARAMETERS AND LIFETIME OF THERMAL NEUTRONS
N64-31795 23-12

THERMAL NEUTRON SPECTRUM EFFECTS ON CALCULATIONS FOR GRAPHITE MODERATED LATTICES
NAA-SR-7892 N64-33588 24-23

THERMAL NOISE
MODEL FOR BANDLIMITED QUANTUM COMMUNICATIONS CHANNEL AND INVESTIGATION OF ITS CAPACITY IN ABSENCE OF EXTERNAL THERMAL NOISE
AFCRL-64-3 N64-15808 07-08

POST-AMPLIFIER NOISE TEMPERATURE CONTRIBUTION IN LOW NOISE RECEIVING SYSTEM
NASA-CR-53203 N64-17203 09-09

MULTIPLE ACCESS CAPABILITY OF HARD-LIMITING COMMUNICATION SATELLITE REPEATER WITH SPREAD-SPECTRUM SIGNALS
IDA/HQ-64-2498 N64-30797 22-08

THERMAL PLASMA
COLLISION-INDUCED DISSOCIATION RATES IN THERMAL PLASMAS
AIAA PAPER-64-55 N64-14064 05-24

PLASMA DENSITY FALL-OFF WITH PASSAGE OF CURRENT IN THERMALLY IONIZED ALKALI PLASMAS - PLASMA LOSSES IN Q-DEVICE
MATT-284 N64-26700 18-24

ELECTRONIC TRACKING ERRORS GENERATED BY REENTRY AND FLAME PLASMA EFFECTS
TM-3865 N64-31891 23-08

THERMAL PROPERTY
ELASTIC AND THERMAL PROPERTIES OF CARBON COMPOUNDS
WADC-TR-58-360, PT. 5 N64-15068 07-19

DEVELOPMENT OF SPACE-STABLE THERMAL CONTROL COATINGS WITH LOW SOLAR ABSORPTANCE-EMITTANCE RATIOS
NASA-CR-55826 N64-16715 08-19

THERMAL AND OPTICAL PROPERTIES OF PLASMAS
FTD-MT-63-188 N64-18691 11-24

EXPERIMENTAL THERMAL SCALING LAWS APPLIED TO SPACECRAFT
NASA-CR-56624 N64-27394 19-13

DETERMINATION OF MASS OF SATELLITE FROM MEASUREMENT OF THERMAL BEHAVIOR
TOR-269/4540-80/-1 N64-27624 19-13

SINGLE CRYSTAL GROWTH, AND DETERMINATION OF THERMAL AND DIELECTRIC PROPERTIES OF BERYLLIUM OXIDE FOR USE IN MICROELECTRONICS
NASA-CR-58527 N64-28843 20-25

THERMAL ANALYSIS OF HERMETICALLY SEALED NICKEL CADMIUM CELLS FOR SPACE APPLICATION
AIAA PAPER-64-751 N64-28849 20-06

OPTICAL, ELECTRICAL, AND THERMAL PROPERTIES OF SOLAR CELLS FABRICATED FROM EPITAXIALLY GROWN SINGLE CRYSTAL GALLIUM PHOSPHIDE
N64-29166 21-06

THERMAL REACTIVITY OF AROMATIC HYDROCARBONS
WADD-TR-61-72, VOL. X, SUPPL. N64-29807 21-07

THERMAL PROPERTIES OF IMPERFECT NITROGEN AT CONSTANT PRESSURE
AEDC-TDR-64-213 N64-32575 23-13

PHOTOVOLTAIC, OPTICAL, THERMAL, AND ELECTRICAL PROPERTIES OF MATERIALS AND MATERIAL STRUCTURES FOR SOLID STATE DEVICES
NASA-CR-58763 N64-33281 24-25

ANALYTICAL MODEL FOR THERMAL RESPONSE PREDICTION IN HONEYCOMB SANDWICH PANELS
OR-6037 N64-33551 24-13

LATTICE AND THERMAL PROPERTIES OF SOLIDIFIED INERT GASES
AD-448620 N64-33661 24-25

THERMAL PROTECTION
ABLATIVE COATING FOR SHORT TERM THERMAL PROTECTION
CPD-57 N64-10316 01-17

TELSTAR SATELLITE GENERAL STRUCTURE AND THERMAL DESIGN CONSIDERATIONS N64-10877 02-30

DESIGN, EXPERIMENTAL MEASUREMENT, & ANALYSIS OF THERMAL PROTECTION SYSTEMS FOR LIQUID HYDROGEN TANKS
NASA-CR-55252 N64-13403 04-13

THERMAL & METABOLIC RESPONSE OF MEN TO MODERATE COLD EXPOSURE AT NIGHT
AAL-TDR-62-44 N64-13645 05-16

METALLIC & CERAMIC REFRACTORY COATING FOR THERMAL PROTECTION OF TITANIUM
AMRA-TR-63-12 N64-13850 05-19

MECHANICAL SPALLATION OF PLASTIC CHARRING ABLATORS - THERMAL PROTECTION FOR REENTRY VEHICLES
R63SD53 N64-14679 06-13

FREE FLIGHT TESTS OF SUBLIMING ABLATORS AND TRANSPIRATION COOLING AS THERMAL PROTECTION AT HYPERSONIC SPEEDS N64-20295 13-13

CAUSES, EFFECTS, AND PROTECTION AGAINST AERODYNAMIC HEATING AT SUPERSONIC SPEEDS
FTD-TT-63-976/1&2 N64-21960 15-13

THERMIONIC CONVERTERS - SHELL FOR PROTECTION OF EMITTER TO BE HEATED BY FOSSIL FUEL
REPT.-2 N64-22201 15-06

THERMAL PROTECTION SYSTEM FOR LIQUID HYDROGEN STORAGE VESSEL N64-25028 17-26

FLUORO COMPOUNDS FOR THERMAL PROTECTION OF POLYMERS
AD-438520 N64-25835 18-07

ABLATING CORK AS THERMAL PROTECTION MATERIAL
NASA-TN-D-2438 N64-28330 20-19

REFRACTORY METALS FOR THERMAL PROTECTION SYSTEMS
NASA-RP-302 N64-28854 20-18

THERMAL PROTECTION SYSTEMS AND THERMOSTRUCTURES TO WITHSTAND EXTENDED HIGH TEMPERATURES, INTENSE NOISE, AND DYNAMIC LOADS
AD-439449 N64-30537 22-34

POWDER OR GAS CEMENTATION PROCESS FOR COATING MOLYBDENUM ALLOYS FOR TEMPERATURE PROTECTION
ML-TDR-64-74 N64-30628 22-17

FILM PROTECTED CONVECTIVELY COOLED NOZZLE FOR ADVANCED SOLID ROCKET
RPL-TDR-64-124 N64-30965 22-27

THERMAL ENVIRONMENT AND PROTECTION OF STRUCTURES BY ABLATIVE TECHNIQUES - ANNOTATED BIBLIOGRAPHY
PIBAL-686 N64-33318 24-13

THERMAL RADIATION
SA INFRARED RADIATION
CF HEAT TRANSFER
REMOVAL OF LARGE AREA OF SKIN DUE TO THERMAL RADIATION INJURY N64-10008 01-16

INFRARED RADIATION AND THERMAL RADIATION RESULTS OF ROCKET MEASUREMENTS OF EARTH RADIATION
JPRS-17588 N64-10701 02-23

INVERSION PROCESS BASED ON THERMAL RADIATION SENSING IN OXYGEN ABSORPTION BAND FOR TEMPERATURE MEASUREMENT N64-10913 02-12

EFFECT OF RADIATIVE ATMOSPHERIC TEMPERATURE ON RADIOMETRIC DETERMINATION OF APPARENT TEMPERATURE OF MATERIALS N64-10922 02-12

MEASUREMENT OF THERMAL RADIATION PROPERTIES OF SOLIDS OVER WIDE RANGE OF TEMPERATURES - EMITTANCE STUDIES
NASA-SP-31 N64-10937 02-01

PITFALLS IN THERMAL EMISSION STUDIES - TERMINOLOGY, EXPERIMENTAL PROCEDURE, AND PHYSICAL STANDARDS N64-10938 02-13

THERMAL RADIATION PROPERTIES OF SOLIDS AT CRYOGENIC TEMPERATURES N64-10941 02-13

HEATED CAVITY REFLECTOMETER FOR THERMAL REFLECTANCE MEASUREMENTS OF OPAQUE SURFACE N64-10947 02-13

EFFECT OF THERMAL RADIATION & SURFACING ON NUCLEAR ELECTRIC POWER SUPPLY PERFORMANCE N64-10956 02-06

THERMAL RADIATION PROPERTIES FOR SOLIDS & COATINGS AT HIGH TEMPERATURES N64-10963 02-23

EMITTANCE MEASUREMENT FOR TEMPERATURES TO 3000-DEG F TO PROVIDE DATA ON THERMAL RADIATION OF CERAMICS FOR REENTRY VEHICLE USE
ASD-TR-61-706, VOL. 2 N64-10965 02-13

EMITTANCE MEASURING APPARATUS FOR TEMPERATURES UP TO 4000-DEG F N64-10966 02-13

THERMAL RADIATION AND FIRE EFFECTS OF NUCLEAR WEAPONS
DASA-1376 N64-12262 03-23

THERMAL RADIATION FIELDS ILLUMINATING A VEHICLE IN SPACE COMPUTED FROM SPACE FLIGHT SIMULATION
AEDC-TDR-63-206 N64-15089 07-18

RADIATIVE EQUILIBRIUM DISTRIBUTION OF TEMPERATURE IN VENUS ATMOSPHERE AND AVERAGE ANNUAL RADIATION BUDGET AT TOP OF MARTIAN ATMOSPHERE
NASA-CR-53285 N64-17593 09-29

THERMAL RADIATION INCIDENT UPON FLAT PLATE ROTATING AROUND ARBITRARY AXIS IN ELLIPTICAL EARTH ORBIT
NASA-TN-D-2147 N64-17745 09-13

THERMAL RADIATION ABSORPTION IN RECTANGULAR GROOVE CAVITIES
ASME PAPER-62-WA-52 N64-19255 11-23

HIGH SPEED THERMAL RADIATION AND CONVECTIVE HEAT TRANSFER FOR SPACECRAFT REENTRY AND ENTRY STUDIES
NASA-CR-53665 N64-19609 12-13

FLASH VAPORIZATION OF SOLID MATERIALS FOR MASS SPECTROMETRY BY THERMAL RADIATION
USNRDL-TR-736 N64-21080 14-23

MEASUREMENTS OF THERMAL RADIATION PARAMETERS OF SURFACE COATING MATERIALS
AIAA PAPER-64-256 N64-21542 15-13

MOLECULAR CHANGES IN POLYAMIDE AND ELASTOMERIC POLYMERS DUE TO NUCLEAR, ULTRAVIOLET, AND THERMAL RADIATION
AD-434216 N64-21593 15-19

THERMAL RADIATION FROM EXHAUST PLUME OF ALUMINIZED COMPOSITE PROPELLANT ROCKET
BSD-TDR-64-16 N64-21687 15-13

EVALUATING THERMAL RADIATIVE PROPERTIES OF SURFACES - SPECTROPHOTOMETER WITH INTEGRATING-SPHERE REFLECTANCE ATTACHMENT
RAE-TM-SPACE-28 N64-21738 15-13

DIGITAL PROGRAM FOR EVALUATION OF THERMAL, KINETIC, AND HYDROGEN DIFFUSION RESPONSES IN CORE OF SNAP 2/10A REACTOR
NAA-SR-84.4 N64-21790 15-23

BLANKET FOR EXTINGUISHING FIRE AND FOR PROTECTION AGAINST THERMAL AND RADIOACTIVE RADIATION
FTD-TT-63-369/1 N64-21947 15-19

STRATOSPHERIC AND TROPOSPHERIC THERMAL RADIATION FIELDS IN INFRARED REGION OF SPECTRUM
NASA-TT-F-8815 N64-22933 16-12

TEMPERATURE MEASUREMENT OF THERMALLY IRRADIATED SURFACE OF ALPHA CELLULOSE
DASA-1467 N64-22986 16-24

ABSORPTION OF ATMOSPHERIC THERMAL RADIATION IN OZONE BAND REGION
NASA-TT-F-207 N64-23029 16-12

THERMAL RADIATION EFFECTS ON ACOUSTIC RESPONSE OF SOLID PROPELLANTS
TG-335-18 N64-23280 16-24

THERMAL AND GAMMA RADIATION BEHAVIOR OF HEAT RESISTANT DYED FIBER
ML-TDR-64-77 N64-23964 16-23

THERMAL RADIATION CHARACTERISTICS OF REFRACTORY OXIDES UNDER NONISOTHERMAL CONDITIONS
ASD-TDR-62-719 N64-24182 16-13

THERMAL RADIATION OF CARBON DIOXIDE IN ATMOSPHERE
NASA-TT-F-208 N64-24833 17-21

THERMAL RADIATION INCIDENT ON LIQUID HYDROGEN TANK DURING TRANSFER ORBIT N64-25027 17-24

THERMAL RADIATION FROM HIGH TEMPERATURE AIR
TR-1225 N64-25342 17-13

TEMPERATURE DISTRIBUTION ON CONDUCTING

CYLINDRICAL SHELLS INCLUDING EFFECTS OF THERMAL RADIATION
NASA-RP-264 N64-26080 18-13

THERMAL RADIATION OF FLAME WITH CONDENSED MAGNESIUM OXIDE PARTICLES IN REFERENCE TO SOLID ROCKET PROPELLANTS AND EXPLOSIVES
N64-26340 18-26

HIGH TEMPERATURE OXIDATION RESISTANT PROTECTIVE COATINGS FOR REFRACTORY ALLOYS, COMPOSITE MATERIAL DEVELOPMENT, AND THERMAL RADIATION MEASUREMENT
N64-27025 19-18

OPTICAL PERFORMANCE OF TWIN ASPHERIC MIRROR SYSTEM FOR THERMAL IMAGE CONVERTER
WRE-TN-CPD-78 N64-27676 19-23

THERMAL RADIATION TESTS ON STRETCHED ACRYLIC PLASTIC
NAEC-AML-1954 N64-28281 20-19

DIFFUSION APPROXIMATION FOR THERMAL RADIATION IN GASES WITH JUMP BOUNDARY CONDITION
NASA-RP-282 N64-28351 20-13

MICROWAVE CAVITY TECHNIQUES FOR SPATIAL DISTRIBUTION OF ELECTRONS IN PLASMA COLUMNS AND MEASUREMENT OF THERMAL RADIATION FROM HIGHLY IONIZED CURRENT CARRYING PLASMA
USCEC-103-101 N64-28617 20-24

THERMAL SCALE MODELING FOR SPACE VEHICLES - THERMALLY SIMILAR MODEL DERIVED FROM MATHEMATICAL MODEL OF PROTOTYPE
NASA-RP-300 N64-28706 20-13

APPLIED MECHANICS - HYPERVELOCITY IMPACT AND THERMAL RADIATION IN TURBULENT BOUNDARY LAYER
FTD-MT-63-262 N64-30361 22-11

THERMAL RADIATION EFFECTS ON HEAT EXCHANGE PROCESSES IN TURBULENT BOUNDARY LAYER
N64-30363 22-13

ANNOTATED BIBLIOGRAPHY ON PHYSICAL CHARACTERISTICS OF THERMAL RADIATION AND RADIATION SOURCES, AND PROTECTION AGAINST BIOLOGICAL EFFECTS
TDCX-33500 N64-32018 23-16

RADIATION-INDUCED INCREASE IN DUCTILE-BRITTLE TRANSITION TEMPERATURE OF SIMULATED PRESSURE VESSEL WALL OF STEEL REACTORS
NRL-6151 N64-32670 23-18

FLASH PYROLYSIS OF SOLID FUEL MATERIALS BY THERMAL RADIATION
WSS/CI PAPER-64-6 N64-33500 24-26

THERMAL SHIELDING
SPACE SUIT DESIGN FACTORS OF TEMPERATURE VARIATION WITH TIME, TEMPERATURE DISTRIBUTION, AND FLUID CIRCULATION FOR TEMPERATURE EQUALIZATION
ANRL-TDR-63-102 N64-15093 07-16

SHEAR MODULUS AND SHEAR STRENGTH OF STRUCTURAL MATERIAL FOR CENTAUR VEHICLE THERMAL SHIELDING
FTDM-3048 N64-20048 13-18

THERMAL SHOCK
EROSION AND THERMAL SHOCK CHARACTERISTICS OF TUNGSTEN UNDER CONDITIONS OF SIMULATED ALUMINIZED ROCKET PROPELLANT EXHAUST N64-15821 07-18

THERMAL SHOCK EVALUATION OF REFRACTORY MATERIALS AS ROCKET NOZZLE INSERTS
NRL-6005 N64-16589 08-27

THERMAL SHOCK EVALUATION OF REFRACTORY MATERIALS AS ROCKET NOZZLE INSERTS N64-16590 08-27

WORK HARDENING OF HEAT RESISTANT AND THERMAL-SHOCK RESISTANT STEEL N64-17082 09-17

THERMAL SHOCK WAVE INTERACTION IN EQUILIBRIUM AIR
KN-689-64-5 N64-21409 14-27

THERMAL SHOCK STUDIES OF CERAMIC MATERIALS
NRL-6029 N64-21683 15-19

THERMAL SHOCK RESISTANCE OF ZIRCONIUM OXIDE WITH METAL ADDITIONS
NASA-TN-D-2464 N64-29510 21-18

THERMAL SHOCK CRACKING OF GLASS DIODES ON CIRCUIT BOARDS DUE TO CONTRACTION AND EXPANSION OF CONFORMAL COATINGS
RG-TN-63-6 N64-32421 23-09

THERMAL SIMULATION
THERMAL TESTING OF NONNUCLEAR SYSTEM PROTOTYPE OF SNAP 10A - SYSTEM FOR NUCLEAR AUXILIARY POWER
NAA-SR-9280 N64-26522 18-06

THERMAL SCALE MODELING FOR SPACE VEHICLES - THERMALLY SIMILAR MODEL DERIVED FROM MATHEMATICAL MODEL OF PROTOTYPE
NASA-RP-300 N64-28706 20-13

THERMAL VACUUM TEST OF ORBITAL STATIC MOISTURE-REMOVAL FUEL CELL
APL-TDR-64-72 N64-30921 22-06

THERMAL STRESS
EFFECT OF ASCORBIC ACID ON FUNCTION OF STRESSED SUPRARENAL GLANDS OF RATS IN HIGH TEMPERATURE ENVIRONMENT
JPRS-20011 N64-11319 02-16

EFFECT OF DIFFERENTIAL PRESSURE, THERMAL STRESS, & BUCKLING ON FLUTTER OF PANELS WITH LENGTH-WIDTH RATIO OF TWO
NASA-TN-D-2047 N64-11901 03-33

DIFFERENTIAL EQUATIONS AND ASYMPTOTIC INTEGRATION FOR SOLUTION OF THERMAL STRESS ON THIN PARABOLIC SHELL OF REVOLUTION
NASA-CR-53007 N64-13276 04-34

THERMAL STRESS ANALYSIS OF SOLID ELASTIC BODY BOUNDED BY ONE OR TWO CONES
MRC-418 N64-13821 05-13

RADIOTELESCOPE IN ORBIT - STRUCTURAL DYNAMICS, THERMAL STRESS, AND RADIATION PATTERN IN FAR FIELD
NASA-CR-55669 N64-15547 07-09

THERMAL STRESSES IN ANISTROPIC HOLLOW CYLINDERS AND APPLICATION TO PYROLYTIC GRAPHITE CYLINDERS
WADD-TR-61-72, VOL. 19 N64-15576 07-19

CALCULATION OF TEMPERATURE DISTRIBUTION AND THERMAL STRESS IN AIR COOLED STEAM TURBINE ROTOR
FTD-TT-62-766/1&2&4 N64-16342 08-27

THERMAL STRESS REQUIREMENTS OF MISSILE AND SPACECRAFT INDUSTRIES OF REFRACTORY METALS - TUNGSTEN SHEET
AMC-TR-8-107/1/ N64-18093 11-18

THEORY OF ELASTICITY AND THERMAL STRESSES - SOLID AND HOLLOW SPHERE DEFORMATION - NONUNIFORM CIRCULAR HEATING - FLATTENING FORCE OF SOLID BEAMS
TN-132 N64-20423 13-20

THERMAL STRESSES IN AIR COOLED DISKS OF ROTARY GAS TURBINES
FTD-TT-64-145/162 N64-21974 15-13

TEMPERATURE DISTRIBUTION AND THERMAL STRESSES IN SHIP STRUCTURES
SSC-152 N64-24935 17-13

GAMMA RADIATION EFFECT ON THERMAL STRESS RESISTANCE AND REPRODUCTIVE SYSTEM IN RATS AND MAMMALS
AD-600960 N64-25308 17-16

EFFECTS OF CONTINUOUS AND FRACTIONATED LOW-INTENSITY GAMMA RADIATION ON ALBINO RAT ABILITY TO WITHSTAND ENVIRONMENTAL THERMAL STRESSES
N64-25311 17-16

EFFECT OF CONTINUOUS OR FRACTIONATED LOW INTENSITY GAMMA RADIATION ON RESISTANCE TO THERMAL STRESS IN ALBINO RAT N64-25312 17-16

EVALUATION OF ENERGY METHOD USING FINITE DIFFERENCES FOR DETERMINING THERMAL MIDPLANE

STRESSES IN PLATES
NASA-TN-D-2439 N64-28331 20-33

THERMAL STRESS IN TWO-PHASE ALUMINUM-SILICON ALLOYS
TR-5 N64-28458 20-13

THERMAL STRAIN ANALYSIS OF HEAT SHIELDS FOR MANNED SPACECRAFT - EQUATION DERIVATION AND FINITE DIFFERENCE FORMULATION
NASA-CR-54717 N64-30351 22-13

THERMAL STRESS OF HEAT SHIELD FOR MANNED SPACECRAFT WITH DERIVATION OF BASIC EQUILIBRIUM AND STRESS EQUATIONS
NASA-CR-54718 N64-30352 22-13

THERMAL STRAIN ANALYSIS OF HEAT SHIELDS FOR MANNED SPACECRAFT - EQUATION DERIVATION AND ENGINEERING MODEL
NASA-CR-54721 N64-30353 22-13

THERMAL STRAIN ANALYSIS OF HEAT SHIELDS FOR MANNED SPACECRAFT - BOUNDARY CONDITIONS AND ANALYSIS
NASA-CR-54120 N64-30354 22-13

MECHANICAL AND MICROMECHANICAL PROPERTIES OF BORON - THERMAL STRESS AND FRACTURE STRENGTH MEASUREMENTS
IR-3 N64-30601 22-25

DYNAMIC THERMAL AND PRESSURE STRESSES IN THIN SPHERICAL SHELLS
PWA-2386 N64-31119 22-33

THERMAL STABILITY OF REFRACTORY AND CERAMIC MATERIALS IN ATOMIC REACTORS, ROCKETS, AND JET ENGINES
NASA-TT-F-9065 N64-31336 22-19

THERMAL RESISTANCES IN CONTACT AREAS OF HEATING ELEMENTS
NASA-TT-F-8839 N64-31448 23-13

THREE DIMENSIONAL PHOTOELASTIC MEASUREMENT OF THERMAL STRESSES IN MODELS OF PRESSURE VESSEL
AD-447818 N64-32123 23-33

PLASTIC THERMAL STRESSES AND STRAINS IN FINITE THIN PLATE OF STRAIN-HARDENING MATERIAL
NASA-TN-D-2206 N64-32429 23-33

ERROR ESTIMATION IN TEMPERATURE AND THERMAL STRESS CALCULATIONS - BOUNDS FOR THREE-DIMENSIONAL HEAT CONDUCTION PROBLEMS
CU-1-64-ONR-4259/07/CE N64-32588 23-13

THERMIONIC CONVERSION SYSTEM
CURRENT-VOLTAGE TEST OF COAXIAL-CYLINDRICAL AND PLANE-PARALLEL ELECTRODES FOR THERMIONIC CONVERTER
TE-5-64 N64-12654 04-06

THERMIONIC-NUCLEAR SPACE POWER SYSTEMS FOR ELECTRIC PROPULSION N64-31612 23-06

EVALUATION OF LIFT ENGINES IN TACTICAL VTOL AIRCRAFT AND THERMIONIC ENERGY CONVERSION RESEARCH N64-31876 23-23

THERMIONIC ENERGY CONVERSION RESEARCH N64-31878 23-06

THERMIONIC CONVERTER
FABRICATION OF HIGH TEMPERATURE SOLAR THERMIONIC CONVERTERS
TRW-ER-5632 N64-12380 03-06

CURRENT-VOLTAGE TEST OF COAXIAL-CYLINDRICAL AND PLANE-PARALLEL ELECTRODES FOR THERMIONIC CONVERTER
TE-5-64 N64-12654 04-06

CERAMIC TO METAL SEALS FOR HIGH-TEMPERATURE THERMIONIC CONVERTERS
RTD-TDR-63-4109 N64-12672 04-19

FAILURE TESTING OF THERMIONIC POWER CONVERTER
NASA-CR-55211 N64-13197 04-06

MAGNETIC FIELD TRIODE FOR THERMIONIC CONVERTERS
DVL-289 N64-13348 04-23

PARALLEL PLANE CESIUM THERMIONIC CONVERTER WITH OXYGEN-TREATED TANTALUM EMITTER & MOLYBDENUM COLLECTOR
QPR-3 N64-13590 05-09

EMITTER MATERIALS FOR USE IN LOW TEMPERATURE THERMIONIC ENERGY CONVERTERS
AD-403362 N64-13599 05-06

FAILURE DETERMINATION OF VAPOR-FILLED THERMIONIC CONVERTER WITH URANIUM-ZIRCONIUM CARBIDE EMITTING SURFACE
RTD-TDR-63-4190 N64-13755 05-06

CAPILLARY EMITTER THERMIONIC CONVERTER
ASD-TDR-63-865 N64-13766 05-06

PULSED DISCHARGE MEASUREMENT OF CURRENT-VOLTAGE CHARACTERISTICS OF CESIUM THERMIONIC CONVERTER
REPT.-25114 N64-13993 05-06

CESIUM AND SOLAR ENERGY THERMIONIC CONVERTERS AND GENERATORS N64-14204 06-01

INTERACTION BETWEEN ELECTRODES AND PLASMA IN THERMIONIC CONVERTER INTERELECTRODE SPACE N64-14207 06-06

POLYCRYSTALLINE MOLYBDENUM AS ELECTRODE MATERIAL FOR CESIUM VAPOR THERMIONIC CONVERTERS N64-14210 06-06

ELECTRICAL TESTING OF GENERATOR FOR SOLAR THERMIONIC CONVERTERS N64-14213 06-06

VAPOR THERMIONIC CONVERTERS
NASA-CR-52815 N64-14266 06-06

THERMIONIC CONVERTER - CESIUM WITH CESIUM FLUORIDE ADDITIVE FOR LOWER WORK FUNCTION
TE-11-64 N64-14652 06-06

NUCLEAR HEATED THERMIONIC CONVERTER TEST TEMPERATURE DISTRIBUTION STUDY
EUR-485.E N64-14738 06-06

HIGH TEMPERATURE EFFECT ON POLYCRYSTALLINE MOLYBDENUM SUBSTRATES USED IN CESIUM VAPOR THERMIONIC CONVERTERS
NASA-CR-55387 N64-14863 06-06

CESIUM HALIDE ADDITIVES FOR THERMIONIC CONVERTERS
REPT. 35-64 N64-15697 07-06

THERMIONIC CONVERTER DEVELOPMENT - SPACING, CERAMICS, AND LEAKAGE
GEST-2029 N64-16793 08-06

THERMAL & THERMIONIC CHARACTERISTICS OF LARGE-SCALE EXPERIMENTAL THERMIONIC CONVERTERS
NASA-TR-R-192 N64-17163 09-06

PLASMA GENERATION, ELECTRON TRANSPORT, AND CESIUM INTERACTION WITH METAL SURFACE AND INSULATORS IN VAPOR-FILLED THERMIONIC CONVERTER
NASA-CR-54009 N64-17222 09-23

LOW TEMPERATURE AND LOW CESIUM PRESSURE THERMIONIC CONVERTER N64-17388 09-06

ALTERNATING CURRENT CESIUM THERMIONIC CONVERTER WITH SINGLE DIODE N64-17389 09-06

HEATED THERMIONIC CONVERTER WITH HOT SHELL TO PROTECT MOLYBDENUM REFRACTORY METAL EMITTER FROM OXIDATION N64-17390 09-06

LIFE TEST OF PLANAR MOLYBDENUM-EMITTER CESIUM VAPOR THERMIONIC CONVERTER OPERATING UNDER STEADY-STATE CONDITIONS
ASD-TDR-63-183 N64-18567 11-06

LIQUID-METAL-COOLED AND WATER-COOLED THERMIONIC REACTOR COLLECTOR SURFACE - CESIUM HYDRIDE COATING
GA-4804 N64-18707 11-06

CYCLE LIFE TESTS OF THERMIONIC CONVERTERS FOR SOLAR POWER SYSTEMS
ASD-TDR-62-1069 N64-19206 11-06

REFRACTORY METALS, INSULATING MATERIALS, AND CESIUM RESISTANT SEALS FOR THERMIONIC CONVERTER
AD-430112 N64-19245 11-06

THERMIONIC CONVERTER FOR STEADY STATE ELECTRO-MAGNETIC COAXIAL PLASMA ACCELERATOR
LAMS-3041 N64-19304 12-24

THERMIONIC ENERGY CONVERTER - ELECTRON DEVICE CONVERTING HEAT DIRECTLY INTO ELECTRICITY
N64-19387 12-06

CURRENT-VOLTAGE CHARACTERISTICS OF CESIUM THERMIONIC CONVERTER WITH SINGLE CRYSTAL MOLYBDENUM EMITTER
ASD-TDR-63-748 N64-19641 12-06

THERMIONIC CONVERTER MODULE FOR LIQUID METAL HEATING
APL-TDR-64-36 N64-19667 12-06

EXPERIMENTAL DATA FOR ANALYSIS OF THERMIONIC CONVERTER - TANTALUM EMITTER N64-19843 12-06

INCREASED OUTPUT OBTAINED BY INCREASING ELECTRODE SIZE IN THERMIONIC CONVERTER SYSTEM
N64-19844 12-06

THERMIONIC ENERGY CONVERSION FOR DIRECT CURRENT & HIGH FREQUENCY POWER OUTPUT N64-19845 12-06

ENERGY CONVERSION BY LIQUID METALS & ALKALI METALS IN MAGNETOHYDRODYNAMIC GENERATORS AND THERMIONIC ENERGY CONVERSION
AD-436857 N64-20159 13-06

LOW TEMPERATURE CYLINDRICAL THERMIONIC CONVERTER AND MULTIPLE COLLECTOR DEVICE FOR DIODE MATERIAL TESTING
AD-429133 N64-20408 13-24

LIFE AND PERFORMANCE OF THERMIONIC CONVERTER
TE-60-64 N64-20561 13-06

PLASMA THERMIONIC ENERGY CONVERTERS USING BARIUM AS VAPOR MATERIAL
MND-2933-2 N64-21345 14-06

LOW-TEMPERATURE VAPOR-FILLED THERMIONIC CONVERTER FOR NUCLEAR APPLICATION
AD-435885 N64-21690 15-06

PERMEATION OF HYDROGEN THROUGH EMITTER SURFACE OF THERMIONIC CONVERTER
USAELRDL-2431 N64-22098 15-06

THERMIONIC CONVERTERS - SHELL FOR PROTECTION OF EMITTER TO BE HEATED BY FOSSIL FUEL
REPT.-2 N64-22201 15-06

TESTING THERMIONIC CONVERTERS WITH DIFFERENT EMITTERS AND COLLECTORS
APL-TDR-64-63 N64-22384 15-06

THERMIONIC CONVERSION SYSTEMS
TID-7687 N64-22976 16-09

THERMIONIC CONVERTERS FOR SPACE POWER
N64-22977 16-09

ADSORPTION IN THERMIONIC CONVERSION SYSTEMS
N64-22978 16-09

HIGH TEMPERATURE PROPERTIES OF NUCLEAR MATERIALS FOR THERMIONIC CONVERSION SYSTEMS
N64-22979 16-09

NOBLE GAS PLASMAS & EMITTER MATERIALS FOR NUCLEAR THERMIONIC CONVERTERS N64-22980 16-09

COLLECTOR ELECTRODES IN THERMIONIC CONVERTERS
N64-22982 16-09

DOUBLE-DIODE THERMIONIC ENERGY CONVERTER
N64-22983 16-09

FISSION HEATED THERMIONIC CONVERTERS
N64-22984 16-09

CESIUM PLASMA CELL WITH URANIUM CARBIDE EMITTER SURFACE N64-22986 16-09

THERMIONIC CONVERSION USING CESIUM, POTASSIUM, AND SODIUM VAPORS N64-22987 16-09

INTERNAL VOLTAGE LOSS IN OPTIMIZED THERMIONIC CONVERTER N64-22989 16-09

BARIUM VAPOR FILLED THERMIONIC ENERGY CONVERTERS
N64-22991 16-09

SOLAR ENERGY THERMIONIC CONVERTER DESIGN
N64-22992 16-09

SPECTROSCOPIC ANALYSIS OF ARC-MODE CESIUM THERMIONIC CONVERTERS N64-22993 16-09

THERMIONIC CONVERTER BACKPACK MOBILE POWER SUPPLY FOR MILITARY APPLICATION N64-22994 16-09

FUELED DOUBLE MODULE THERMIONIC CONVERTERS
N64-22995 16-09

NUCLEAR THERMIONIC CONVERTERS N64-22996 16-09

THERMIONIC CONVERTER OPERATING WITH HIGH TEMPERATURE COLLECTOR
GEST-2034 N64-23874 16-09

HIGH TEMPERATURE EFFECTS ON CRYSTAL SURFACE STRUCTURE OF CESIATED MOLYBDENUM EMITTERS FOR THERMIONIC CONVERTERS
NASA-CR-77 N64-24828 17-13

EFFECTS OF ADDING HELIUM AND ARGON TO CESIUM VAPOR THERMIONIC CONVERTERS
AD-425081 N64-25193 17-13

LOW TEMPERATURE CYLINDRICAL THERMIONIC GENERATOR DEVELOPMENT
QTR-1 N64-25373 17-06

LOW WORK FUNCTION COLLECTOR FOR THERMIONIC ENERGY CONVERTERS
ATSR-1 N64-25686 17-13

LITHIUM ALUMINOSILICATE AS ION EMITTING SOURCE FOR THERMIONIC CONVERTER
USAELRDL-TR-2479 N64-26176 18-23

THERMIONIC AND THERMOELECTRIC ENERGY CONVERSION
NASA-CR-58125 N64-26371 18-06

THERMIONIC TRANSDUCER, CONVERTER, DIODES, SINGLE CRYSTAL ELECTRON WORK FUNCTION, TUNGSTEN ELECTRON EMISSION, AND SURFACE DIFFUSION FROM CALCIUM TO TUNGSTEN
WGLR-2/1964 N64-26756 18-06

RADIATOR AREA POTENTIAL OF OUT-OF-PILE THERMIONIC SPACE POWER SYSTEM USING INERT GAS AS HEAT TRANSFER MEDIUM
NASA-TN-D-2429 N64-26781 18-06

ABSORPTION SPECTRUM OF CESIUM VAPOR FOR PRESSURE RANGE OF THERMIONIC CONVERTER
EOS-3130, FINAL N64-27547 19-24

NEW CONCEPTS OF ENERGY CONVERSION - THERMIONIC ENERGY CONVERTERS AND MAGNETOHYDRODYNAMIC POWER GENERATION
QTPR-3 N64-27736 19-24

THERMIONIC CONVERTER FABRICATION
TE-4-65 N64-27790 19-06

PERMEATION OF FOSSIL FUEL COMBUSTION GAS DETERMINED FOR ALUMINUM OXIDE, BERYLLIUM OXIDE, AND SILICON CARBIDE SAMPLES USING PROTOTYPE BURNER - THERMIONIC CONVERTERS
QTR-3 N64-28078 20-06

EVALUATION OF 100 WATT SOLAR THERMIONIC GENERATOR
TRW-ER-6044 N64-28773 20-06

CESIUM NEUTRAL AND IONIC SPECIES IN THERMIONIC ENERGY CONVERTERS
GA-5401 N64-29299 21-24

URANIUM AND ZIRCONIUM CARBIDES AS CATHODES FOR THERMIONIC SPACE REACTORS
NASA-CR-56280 N64-29371 21-19

THERMIONIC CONVERTER FOR LIQUID METAL HEATING IN SPACE RADIATOR
PWA-2275 N64-30701 22-06

ALTERNATING CURRENT CHARACTERISTICS OF AEROSPACE STATIC INVERTER AND CONVERTER CAPACITORS
NASA-CR-54185 N64-31013 22-09

CESIUM VAPOR-FILLED THERMIONIC CONVERTERS FOR HIGH VACUUM WORK FUNCTION EMITTER MATERIALS
MND-3100 N64-31198 22-06

THERMIONIC ENERGY CONVERTERS AND INVESTIGATION OF HIGH-EFFICIENCY PROCESS OF HOLLOW-CATHODE DISCHARGE
AFCRL-64-560 N64-31402 23-06

LIFE TESTING AND PERFORMANCE OF THERMIONIC CONVERTERS
TE-28-65 N64-32560 23-06

THERMIONIC GENERATOR DEVELOPING POTENTIAL VOLTAGE FROM LIQUID METAL HEAT SOURCE
QTR-7 N64-32605 23-06

ELECTRIC POWER GENERATION FOR SPACE VEHICLES - BATTERIES, SOLAR CELLS, THERMOELECTRIC CONVERTERS, MAGNETOHYDRODYNAMIC CONVERTERS, FUEL CELLS, AND THERMIONIC CONVERTERS N64-32770 24-06

DIRECT ENERGY CONVERSION SYSTEMS - FUEL CELLS, MAGNETOGASDYNAMICS, THERMOELECTRICITY
AD-406355 N64-32867 24-24

VAPOR-FILLED THERMIONIC CONVERTERS - CESIUM SURFACE ADSORPTION AND PLASMA PHENOMENA
NASA-CR-54194 N64-33100 24-06

THERMIONIC DIODE
NONEQUILIBRIUM EXPANSION OF ALKALI-METAL PLASMAS PASSED THROUGH THERMIONIC DIODE
NASA-TN-D-2086 N64-11791 03-24

DESIGN OF FUELED, DOUBLE-DIODE THERMIONIC MODULE FOR OUT-OF-PILE TESTING
MND-2945-4 N64-15961 07-06

UNSYMMETRICAL CONVERTER CIRCUIT FOR SWITCHING THERMIONIC DIODE BETWEEN CONDUCTING AND NON-CONDUCTING STATES N64-17429 09-06

RADIATION EFFECTS ON INERT GAS FILLED THERMIONIC DIODES FROM NUCLEAR REACTOR AND SELF-CONTAINED RADIATION SOURCE - RADIOACTIVE KRYPTON
APL-TDR-64-28 N64-19415 12-06

PLASMA THERMIONIC DIODES FOR CONVERSION OF NUCLEAR REACTOR POWER
GEST-2031 N64-22513 15-06

COLLECTOR ELECTRODES IN THERMIONIC CONVERTERS
N64-22982 16-09

DOUBLE-DIODE THERMIONIC ENERGY CONVERTER
N64-22983 16-09

ELECTRON WORK FUNCTION OF METAL IMMERSED IN GAS FOR CESIUM THERMIONIC DIODE APPLICATION
NASA-TN-D-2357 N64-24817 17-09

FABRICATION OF THERMIONIC DOUBLE DIODE MODULES
MND-3149-1 N64-25581 17-09

RADIOISOTOPE FUELED THERMIONIC DIODE POWER SYSTEM
NASA-TM-X-55064 N64-28899 20-06

THERMIONIC EMISSION
CF FIELD EMISSION
CRYSTALLOCHEMICAL STRUCTURE OF RARE EARTH BORIDES RELATED TO THERMIONIC EMISSION AND MAGNETIC, ELECTRIC, AND THERMOELECTRIC PROPERTIES
N64-10675 02-19

SPUTTER-ION PUMPS WITH THERMIONIC ELECTRON INJECTION
CPD-74 N64-11788 03-17

THERMIONIC EMISSION OF ELECTRONS FROM HOT BODIES SURROUNDED BY PLASMA - ELECTRIC POTENTIAL FIELD & ELECTRON DENSITY DISTRIBUTION AROUND BODY
NASA-RP-124 N64-14930 06-29

THERMIONIC EMISSION ION SOURCES FOR ISOTROPIC ANALYSIS OF LITHIUM
NBL-205 N64-15564 07-07

DEPENDENCE OF THERMIONIC EMISSION OF TUNGSTEN ALLOYED WITH TITANIUM & HAFNIUM ON COMPOSITION AND ON OXYGEN PRESSURE
FTD-MT-63-37/1&2&4 N64-16410 08-25

ELECTRON PROJECTION DIODE FOR STUDYING THERMIONIC EMISSION FROM SINGLE CRYSTAL REFRACTORY METAL FILAMENTS - RECRYSTALLIZED MOLYBDENUM DATA
AFCRL-64-234 N64-17449 09-25

EXPERIMENTAL DATA FOR ANALYSIS OF THERMIONIC CONVERTER - TANTALUM EMITTER N64-19843 12-06

CHARACTERISTICS OF ZIRCONIUM, NIOBIUM, & TANTALUM BERYLIDES AS THERMIONIC EMITTERS
DRI-2137 N64-19975 12-06

THERMIONIC BEHAVIOR OF NONMETALLIC SOLIDS IN CONTACT WITH VAPOR N64-22988 16-19

PRODUCTION AND THERMIONIC EMISSION DATA OF TUNGSTEN AND MOLYBDENUM SINGLE CRYSTALS
AFCRL-64-410 N64-26895 18-25

COMPUTATIONS OF ELECTRON DISTRIBUTIONS ABOUT THERMIONICALLY EMITTING PARTICLES, & ION SAMPLING FROM CHEMICAL PLASMAS
QSR-7 N64-28644 20-24

THERMIONIC AND NONTHERMIONIC EMISSION CATHODES WITH LOW NOISE TEMPERATURE
S-660 N64-30021 21-09

THERMIONIC ENERGY CONVERSION RESEARCH
N64-31878 23-06

CHARGING OF CONDUCTING SPHERE IN CONCENTRIC VACUUM BY THERMIONIC EMISSION - SQUID PROJECT
ILL-15-P N64-33946 24-23

THERMIONICS
SA THERMIONIC EMISSION
CLAD CARBIDE EMITTER THERMIONIC POWER MODULE FOR SIMULATING NUCLEAR REACTOR INSTALLATION, DESIGN, & PERFORMANCE
AI-9050 N64-13237 04-06

ENCAPSULATED THERMIONIC POWER GENERATOR
MND-2945-1 N64-16566 08-06

BIOCHEMICAL FUEL CELLS, PLASMA PHYSICS - MHD AND THERMIONICS, THERMAL ENERGY STORAGE, THERMAL TRANSPORT, AND SOLAR REFLECTOR RESEARCH
NASA-CR-53557 N64-18304 10-23

METHODS & INSTRUMENTATION FOR DIRECT ENERGY CONVERSION - THERMIONICS, MAGNETOHYDRODYNAMICS, AND THERMOELECTRICITY N64-19376 12-06

DIRECT ENERGY CONVERSION TECHNOLOGY - SOLAR CELLS, MAGNETOHYDRODYNAMICS, BATTERIES, AND THERMIONICS
N64-19377 12-06

THERMIONIC GENERATOR EVALUATED FOR SUITABILITY FOR LIQUID METAL HEATING IN SPACE RADIATOR CONFIGURATION
PWA-2337 N64-21358 14-06

WICK-FED BURNER WITH SIMULATED FLAT DIODE AS HEAT SOURCE FOR THERMIONIC POWER GENERATORS
REPT.-1 N64-25316 17-06

THERMIONIC WORK FUNCTIONS OF CHEMICAL COMPOUNDS AND RELATION TO ELECTRONIC AND CRYSTAL STRUCTURES

NASA-CR-56907 N64-25574 17-18

ENGINEERING EVALUATION OF ADVANCED NUCLEAR THERMIONIC SPACE POWERPLANTS
AIAA PAPER-64-766 N64-28412 20-06

RADIATION RESISTANCE OF THERMIONIC INTEGRATED MICROMODULES N64-28680 20-09

THERMIONIC INTEGRATED MICROMODULE /TIMM/ - MATERIALS EVALUATED FOR OPERATION IN SEVERE MECHANICAL, THERMAL, AND RADIATION ENVIRONMENTS
AL-TDR-64-187 N64-29964 21-09

THERMISTOR
THERMOCOMPENSATION OF THERMISTOR POWER MEASURING DEVICES WITH THERMISTOR IN FEEDBACK CIRCUIT
JPRS-24477 N64-19492 12-09

OCEANOGRAPHIC FACTORS - THERMAL STRUCTURE OF UPPER SEA LAYERS BY THERMISTOR CHAIN
NEL-1210 N64-21809 15-12

RESPONSE AND CORRECTIONS TO THERMISTOR AND PLATINUM WIRE RESISTANCE THERMOMETER FOR TEMPERATURE MEASUREMENTS IN UPPER ATMOSPHERE
PAD-83 N64-22493 15-25

CONTINUOUS REGISTRATION OF LOCAL CEREBRAL BLOOD FLOW USING THERMISTOR
FTD-TT-63-1175/1&2&4 N64-27840 19-16

AUTOMATIC THERMISTOR BRIDGE AND ERRORS OF MICROCALORIMETER WITH CIRCULATING LIQUID
JPRS-25358 N64-29209 21-15

AUTOMATIC DC THERMISTOR BRIDGE FOR ACCURATE CURRENT MEASUREMENT N64-29210 21-15

FUNCTION RELATING ABSOLUTE TEMPERATURE TO DC BRIDGE RESISTANCE RATIO, & THERMISTOR TEMPERATURE COEFFICIENT OF RESISTANCE
PIBAL-696 N64-30589 22-15

SOLID STATE THERMOSTAT USING THERMISTOR SENSOR AND TRANSISTOR CIRCUITS
NASA-CR-58858 N64-33038 24-09

THERMOCHEMISTRY
BIBLIOGRAPHY ON HIGH TEMPERATURE CHEMISTRY AND PHYSICS OF GASES AND GAS-CONDENSED PHASE REACTIONS N64-10319 01-07

THERMOCHEMISTRY OF ALLOYS & COMPOUNDS BY MASS SPECTROMETRY - VAPORIZATION STUDIES
WADD-TR-60-782 N64-11372 02-18

REFRACTORY ROCKET LINER MATERIALS - SUMMARY OF THEORETICAL THERMOCHEMICAL CORROSION STUDIES
U-2384 N64-12812 04-19

THERMOCHEMISTRY OF BORON, TIN, AND GERMANIUM ALKYLATES
FTR-2 N64-14361 06-07

OXIDIZER RESEARCH - THERMOCHEMICAL DATA, INTRAMOLECULAR INTERACTION, AND REPULSIVE ENERGY IN ALKALI HALIDES
S-13907 N64-17783 09-26

THERMOCHEMICALLY SELF-PROPAGATING OXYGEN-GENERATING COMPOSITION USING LITHIUM PERCHLORATE, MANGANESE POWDER, & LITHIUM PEROXIDE
AMRL-TDR-64-1 N64-18600 11-16

THERMOCHEMICAL PROPERTIES OF NOBLE GAS FLUORIDES N64-18809 11-13

THERMOCHEMICAL PERFORMANCE OF ORGANIC POLYMERIC COMPOSITES
LMSC-803099 N64-19028 11-13

THERMOCHEMICAL INVESTIGATION OF COMPLEX FORMED BY CYCLOTETRAMETHYLENE TETRANITRAMINE /HMX/ AND DIMETHYLFORMAMIDE /DMF/
AD-435690 N64-19132 11-07

THERMOCHEMICAL GAS ANALYZER FOR CONTINUOUS DETECTION OF OXYGEN
FTD-TT-62-1554/1&2&4 N64-23445 16-15

THERMOCHEMISTRY OF REFRACTORY ELEMENTS - CHEMICAL REACTIONS APPLIED TO ENGINEERING STRUCTURES N64-27584 19-18

PROPERTIES OF ALKALI AZIDES AND BARIUM AZIDES AND EFFECTS ON THERMODYNAMIC AND THERMOCHEMICAL DATA
MTSR-1 N64-28149 20-02

THERMOCHEMISTRY OF ALKYLS OF TIN AND GERMANIUM
AD-448759 N64-32459 23-07

THERMOCHEMISTRY OF ALKYLS OF TIN AND GERMANIUM
OTSR-3 N64-32506 23-07

THERMOCONDUCTIVITY
CF CONDUCTIVE HEAT TRANSFER
THERMOCONDUCTIVITY OF SINGLE-CRYSTAL COLUMNAR GRAINS IN IRRADIATED URANIUM DIOXIDE FUEL ELEMENTS
AECL-1822 N64-10376 01-13

THERMOCONDUCTIVITY OF METALS AT CRYOGENIC TEMPERATURES
ASD-TDR-63-291 N64-10546 01-18

OXYGEN-URANIUM RATIO EFFECT ON THERMAL CONDUCTION OF URANIUM OXIDE
CRDC-1153 N64-10615 01-13

LONGITUDINAL HEAT CONDUCTION AND RADIANT INTERCHANGE BETWEEN NONISOTHERMAL FINITE SURFACES IN FIN-TUBE RADIATORS
NASA-TN-D-2077 N64-11193 02-13

THERMOCONDUCTIVITY IN HOLLOW CYLINDER - FOURIER DIFFERENTIAL EQUATION
EUR-377.D N64-11261 02-13

EDDY THERMAL DIFFUSIVITY FOR TURBULENT FLOW OF WATER IN PIPES
IS-734 N64-12014 03-11

HIGH ORDER CORRECTIONS TO LATTICE THERMO-CONDUCTIVITY
USNRDL-TR-675 N64-12598 04-13

ABSOLUTE THERMOCONDUCTIVITY MEASUREMENTS AT CRYOGENIC TEMPERATURES - CALORIMETER DESIGN, CONSTRUCTION, AND CALIBRATION
ASD-TDR-63-756 N64-12636 04-13

INSTRUMENT FOR MEASURING THERMAL CONDUCTANCE OF HONEYCOMB STRUCTURAL MATERIALS AT HIGH TEMPERATURE
ASD-TDR-63-359 N64-12869 04-13

THERMOCONDUCTIVITY OF GASES & LIQUIDS OVER RANGE OF TEMPERATURES AND PRESSURES - SQUID PROJECT N64-13482 05-24

THERMAL DIFFUSIVITY OF SOLIDS USING LASER AS PULSE HEAT SOURCE
ASD-TDR-63-882 N64-14116 05-13

AXIAL HEAT-FLOW APPARATUS FOR DETERMINING THERMO-CONDUCTIVITY OF MOLTEN SAMPLE OF LITHIUM METAL
ORNL-3390 N64-14058 05-13

TWO-DIMENSIONAL ANALYSIS OF TRANSIENT HEAT CONDUCTION IN SEGMENT OF HOLLOW CIRCULAR CYLINDER
OR-3351 N64-14817 06-13

SHOCK-TUBE HEAT TRANSFER EXPERIMENTS TO MEASURE THERMOCONDUCTIVITY OF ARGON FROM 700-8600 DEG K.
NASA-TN-D-2117 N64-14985 06-13

NEW TECHNIQUES FOR MEASUREMENT OF THERMAL DIFFUSIVITY & THERMOCONDUCTIVITY OF REFRACTORY MATERIALS AT HIGH TEMPERATURE
WADD-TR-60-581, PT. 4 N64-14992 06-13

CORRELATION FUNCTION CALCULATION OF LATTICE THERMOCONDUCTIVITY BY LIOUVILLE OPERATOR METHOD
USNRDL-TR-694 N64-15076 07-13

THERMOCONDUCTIVITY OF GRANITE, BASALT, TUFF, DOLOMITE, LIMESTONE, AND GNOME SALT MEASURED TO 1000-DEG. C.
UCRL-7605 N64-15399 07-13

EXPERIMENTAL DETERMINATION OF THERMAL CONTACT RESISTANCE VALUES
RSIC-128 N64-15740 07-13

THERMOCONDUCTIVITY & AEROTHERMOCHEMISTRY OF PYROLYTIC GRAPHITE
R63SD84 N64-15760 07-19

TRANSIENT THERMOCONDUCTIVITY OF POLYETHYLENE, POLYTETRAFLUOROETHYLENE, & POLYMETHYLMETHACRYLATE AT ELEVATED TEMPERATURES
NASA-CR-53071 N64-15789 07-13

RELATION BETWEEN THERMOCONDUCTIVITY AND VISCOSITY FOR NONPOLAR GASES - COLLISION NUMBERS FOR ROTATIONAL RELAXATION
NASA-RP-134 N64-15842 07-23

APPARATUS FOR MEASUREMENT OF THERMAL CONDUCTIVITY OF POWDERS IN VACUUM FROM 120 TO 350 DEG. K.
N64-15912 07-13

TEMPERATURE FIELDS AND THERMOCONDUCTIVITY IN WORKPIECES & TOOLS IN MACHINING HEAT-RESISTANT STEEL ALLOYS N64-17097 09-17

THERMOCONDUCTIVITY OF SILICON BASED WITH POTASSIUM TITANATE FIBERS - COATING MATERIAL
NASA-CR-56007 N64-17688 09-13

SPECIFIC HEAT, THERMAL CONDUCTIVITY, AND VISCOSITY OF LIQUID CESIUM
NASA-CR-54018 N64-18294 10-18

THERMAL CONDUCTIVITY OF POLYPHENYLS USED AS REACTOR COOLANTS
EUR-582.D N64-19006 11-13

TENSILE AND FATIGUE PROPERTIES OF FORGINGS, ROLLED PLATE, & WELDMENTS OF HEAT-TREATED H-11 STEEL FOR F-111 AIRCRAFT STRUCTURES
FTDM-3177 N64-20060 13-18

REENTRY HEAT CONDUCTION OF SPACE VEHICLE SKIN WITH VARIABLE THERMOCONDUCTIVITY
NASA-RP-167 N64-20200 13-13

THERMOCONDUCTIVITY OF SOLID ARGON
AD-437659 N64-20291 13-25

SHOCK TUBE THERMAL CONDUCTIVITY
NASA-RP-191 N64-21280 14-13

THERMAL CONDUCTIVITIES OF WATER VAPOR, DEUTERIUM OXIDE VAPOR AND EQUIMOLAR MIXTURE OF WATER AND DEUTERIUM OXIDE
NASA-RP-176 N64-21302 14-13

EFFECT OF THERMOCONDUCTIVITY OF TURBINE BLADE MATERIAL ON TEMPERATURE IN BLADE
FTD-TT-64-146/1&2 N64-22163 15-13

THERMOCONDUCTIVITY EFFECTS ON SURFACE FLATNESS, ROUGHNESS, AND TENSION IN BOLTED JOINT BETWEEN ALUMINUM ALLOYS
RAE-TN-WE-46 N64-22371 15-13

THERMOCONDUCTIVITY OF GRAPHITE AT HIGH TEMPERATURES AND TOTAL EMISSIVITY OF REFRACTORY METALS
ML-TDR-64-59 N64-22553 15-19

THERMOCONDUCTIVITY AND THERMAL EXPANSION MEASUREMENTS OF PLASTICS AND COMPOSITES FOR CRYOGENIC APPLICATIONS
ML-TDR-64-33, PT. I N64-22554 15-19

LAP SHEAR STRENGTH AND THERMAL CONDUCTIVITY STUDY OF ADHESIVES
A750 N64-22592 15-19

APPROXIMATE SOLUTION TO TWO-DIMENSIONAL STATIONARY HEAT CONDUCTION PROBLEM AND DETERMINING EFFECT OF ARTIFICIAL COOLING ON TURBINE COMPONENTS
N64-23488 16-13

THERMOCONDUCTIVITY OF TRANSFORMER WINDINGS
N64-23547 16-09

APPROXIMATION METHODS FOR SOLUTION OF LINEAR AND INTEGRAL EQUATIONS FOR THERMOCONDUCTIVITY AND DIRICHLET PROBLEMS
FTD-TT-63-808/1&2 N64-23688 16-23

NUMERICAL SOLUTION OF LINEAR EQUATION OF HEAT CONDUCTION WITH SEVERAL SPATIAL VARIABLES
N64-23689 16-13

PRANDTL NUMBER MEASUREMENTS AND THERMOCONDUCTIVITY AND VISCOSITY PREDICTIONS FOR AIR, HELIUM, AND AIR-HELIUM MIXTURES
NASA-CR-55273 N64-25659 17-13

THERMAL AND ELECTRICAL CONDUCTIVITIES OF BIOLOGICAL FLUIDS AND TISSUES
GLR-24 N64-25892 18-16

EDDY CURRENTS, ULTRASONIC, THERMOCONDUCTIVITY, ETCHING, AND STRESS-STRAIN DISTRIBUTION METHODS FOR MATERIAL SORTING
AD-439601 N64-26426 18-10

LATTICE THERMAL CONDUCTIVITY OF COPPER-NICKEL ALLOYS
DI-82-0333 N64-26512 18-18

AMBIPOLAR DIFFUSION CONTRIBUTION TO SEMICONDUCTOR THERMAL CONDUCTIVITY
NASA-RP-243 N64-26573 18-25

THERMOCONDUCTIVITY OF THERMOCOUPLE GRADE CONSTANTAN ROD
NASA-CR-56932 N64-27298 19-18

STRESS-STRAIN AND THERMOCONDUCTIVITY MEASUREMENTS ON GRAPHITE CYLINDERS IN TENSION AND COMPRESSION
AD-441918 N64-27339 19-17

THERMOCONDUCTIVITY TENSORS FOR FULLY IONIZED LORENTZ-TYPE HYDROGEN GAS
AFCRL-64-615 N64-29289 21-13

RADIAL HEAT FLOW APPARATUS FOR HIGH TEMPERATURE THERMOCONDUCTIVITY MEASUREMENTS
GEMP-296 N64-29391 21-15

THERMAL CONDUCTIVITY, THERMOELECTRIC POWER, AND ELECTRICAL RESISTIVITY OF STOICHIOMETRIC TITANIUM-NICKEL ALLOY
NOLTR-64-76 N64-31085 22-25

TRANSFORMATION OF EULERIAN FORM OF NAVIER STOKES EQUATION INTO LINEAR LAGRANGIAN MODEL OF TURBULENT HEAT CONDUCTION AND CONVECTION
GEOPHYS. SCI. LAB. REPT.-63-8 N64-31242 22-13

PULSE COMPRESSION THERMAL CONDUCTANCE VACUUM GAUGE FOR LOW PRESSURE USE
FTD-TT-63-151/1&2 N64-32510 23-15

APPROXIMATE FORMULAS FOR VISCOSITY AND THERMAL CONDUCTIVITY OF MONATOMIC GAS MIXTURE
NASA-TN-D-2502 N64-33084 24-11

CONTACT HEAT EXCHANGE BETWEEN FLAT METAL PLATES AS FUNCTION OF PRESSURE, SURFACE PROPERTIES, AND HEAT CONDUCTIVITY COEFFICIENT
RSIC-272 N64-33421 24-13

THERMOCOUPLE
SA SEEBECK EFFECT
CF PYROMETER
CF TEMPERATURE MEASUREMENT
CF THERMOELECTRICITY
THERMOCOUPLE AND RADIATION THERMOMETRY ABOVE 900 DEG K
N64-10940 02-13

MEASUREMENT OF TEMPERATURE PROFILES OF BURNING SOLID PROPELLANTS BY MICROTHERMOCOUPLES
AERONAUTICAL ENG. REPT.-664 N64-11763 03-21

ERROR DUE TO HEAT TRANSFER TO GASEOUS MEDIUM IN READING OF THERMOCOUPLE PASSING THROUGH FLAME

AMC-TRANS-42-62 N64-11914 03-15

MULTIRANGE AUTOMATIC BRIDGE AND POTENTIOMETER WITH MEASURING SYSTEM FOR RESISTANCE THERMOMETER AND THERMOCOUPLE GROUPS N64-13581 05-15

PLASMA THERMOCOUPLES AND PULSED MAGNETIC FIELD EFFECTS N64-15493 07-24

REFRACTORY METAL THERMOCOUPLE FOR LITHIUM COOLED REACTOR
PWAC-422 N64-16000 07-15

PERFORMANCE OF TUNGSTEN-TUNGSTEN 26 RHENIUM THERMOCOUPLES TO ABOUT 5000 DEGREES FAHRENHEIT
NASA-CR-55626 N64-16269 08-23

HARDNESS OF TUNGSTEN IN 200-2000 DEG RANGE USING THERMOCOUPLE AND OPTICAL PYROMETER MEASUREMENTS
FTD-TT-63-101/1&2 N64-16414 08-18

ULTRAHIGH TEMPERATURE PYROLYTIC GRAPHITE THERMOCOUPLE
ASD-TDR-63-844 N64-16594 08-25

SILICON-GERMANIUM ALLOYS FOR THERMOCOUPLE APPLICATIONS N64-17386 09-06

EQUATIONS AND TABLES OF ELECTROMOTIVE FORCE VERSUS TEMPERATURE FOR THERMOCOUPLE REFERENCE JUNCTION
AEDC-TDR-64-55 N64-17456 09-15

HEAT FLUX MEASUREMENTS IN NUCLEATE BOILING HEAT TRANSFER USING SURFACE THERMOCOUPLES
IS-810 N64-17740 09-13

RADIATION BALANCE AND THERMOCOUPLE FOR MEASUREMENT OF RADIATION
NASA-TN-D-2246 N64-17749 09-13

EMF OF THERMOCOUPLES COMPRESSED BY SHOCK WAVE
FTD-TT-63-1057/1&2 N64-23314 16-11

RESPONSE OF THERMOCOUPLE JUNCTION TO SHOCK WAVES IN COPPER N64-25348 17-23

IMPROVEMENT OF SENSOR RESPONSE BY ANALOG TECHNIQUE AND APPLICATION TO THERMOCOUPLE MEASUREMENT OF TEMPERATURE
USAELRDL-TR-2445 N64-26507 18-15

THERMOCONDUCTIVITY OF THERMOCOUPLE GRADE CONSTANTAN ROD
NASA-CR-56932 N64-27298 19-18

HIGH TEMPERATURE THERMOCOUPLE DEVELOPMENT TO MEASURE ROCKET ENGINE EXHAUST DURING OXIDATION, EROSION, VIBRATION, AND SHOCK
NASA-CR-58568 N64-29548 21-15

HIGH TEMPERATURE THERMOCOUPLE FOR ROCKET EXHAUST TEMPERATURE MEASUREMENT
NASA-CR-58569 N64-29568 21-15

MECHANICAL RELIABILITY AND THERMOELECTRIC STABILITY OF NOBLE METAL THERMOCOUPLES AT VERY HIGH TEMPERATURES & UNDER INTENSE NUCLEAR RADIATION
SEC-TDR-64-7 N64-29651 21-15

NEUTRON FLUX MONITORS AND THERMOCOUPLES FOR IN-CORE REACTOR MEASUREMENTS
AECL-2033 N64-30641 22-15

HIGH TEMPERATURE MATERIALS - REACTOR MATERIALS FABRICATION, THERMOCOUPLE, AND ELECTRICAL MATERIALS
GEMP-39A N64-31374 23-25

THERMODYNAMIC EQUILIBRIUM
REAL GAS HYPERSONIC NOZZLE FLOW PARAMETERS FOR NITROGEN IN THERMODYNAMIC EQUILIBRIUM
NASA-TN-D-2019 N64-10057 01-02

REVERSE MARTENSITIC TRANSFORMATION AND THERMODYNAMIC EQUILIBRIUM N64-11149 02-18

APPROXIMATE CALCULATION OF HYPERSONIC CONICAL FLOW PARAMETERS FOR AIR IN THERMODYNAMIC EQUILIBRIUM
NASA-TN-D-2058 N64-12716 04-11

DEPARTURES FROM LOCAL THERMODYNAMIC EQUILIBRIUM IN AD STAR ATMOSPHERE
NASA-TN-D-2110 N64-15971 07-05

THERMODYNAMIC EQUILIBRIUM IN GRAVITATIONAL FIELD
MATT-221 N64-18339 10-23

FLOW RELAXATION IN GASES & DEVIATION IN THERMODYNAMIC EQUILIBRIUM IN FLOW AROUND CONES
FTD-TT-63-655/1&2 N64-21934 15-11

THERMODYNAMIC EQUILIBRIUM ON LIQUID ROCKET ENGINE COMBUSTION CHAMBER WALLS
FTD-TT-63-571/1&2&4 N64-23629 16-01

DISTRIBUTION OF ELECTRIC AND MAGNETIC FIELDS IN ROTATING PLASMA IN THERMODYNAMIC EQUILIBRIUM
NASA-TT-F-8690 N64-25070 17-24

SUPERSONIC FLOW AROUND BLUNT BODIES IN GAS IN THERMODYNAMIC EQUILIBRIUM
NASA-TR-R-204 N64-25812 17-02

ORDINARY DIFFERENTIAL EQUATIONS FOR AXISYMMETRIC FLOWS OVER CONES OF LIGHTHILL DISSOCIATING GAS UNDER THERMODYNAMIC EQUILIBRIUM
DI-82-0350 N64-30044 21-11

THERMODYNAMIC EQUILIBRIUM OF CRYSTAL SURFACES - LOW ENERGY ELECTRON DIFFRACTION TECHNIQUES AND FIELD ION EMISSION MICROSCOPY
AD-602105 N64-30770 22-25

NUMERICAL CALCULATIONS OF HEAT TRANSFER RATES ON SPHERES AND CONES IN AIR AT THERMODYNAMIC EQUILIBRIUM
CARDE-TR-479/64 N64-31018 22-13

LOCAL AND NONLOCAL THERMODYNAMIC EQUILIBRIUM OF GAS FOR COLLISIONALLY AND RADIATIVELY CONTROLLED TRANSITION PROCESSES
R64SD41 N64-32372 23-11

THERMODYNAMIC PROPERTY
MECHANICAL & THERMODYNAMIC PROPERTIES OF HOT PRESSED ZIRCONIUM CARBIDE
NASA-CR-52455 N64-10339 01-18

THERMAL PROPERTIES OF REFRACTORY MATERIALS - BORON CARBIDE, NIOBIUM, TANTALUM, AND MOLYBDENUM ALLOYS, AND ZIRCONIUM NITRIDE
ASD-TDR-63-597 N64-11471 03-13

CORRELATION OF PRESSURE-DENSITY-TEMPERATURE AND SPECIFIC HEAT DATA FOR PARAHYDROGEN
NBS-R-45 N64-11637 03-19

DESIGN CRITERIA FOR GRADE CFZ GRAPHITE AND PREPARATION FOR THERMOPHYSICAL PROPERTY DETERMINATION AT HIGH TEMPERATURES
AD-523744 N64-11929 03-19

MODEL ATMOSPHERES FOR THERMODYNAMIC PROPERTIES AND SURFACE PRESSURE, TEMPERATURE, AND DENSITY STUDIES OF PLANET MARS
SM-44552 N64-11942 03-29

STATE EQUATION FOR MOLECULAR OXYGEN & THERMODYNAMIC PROPERTIES N64-11972 03-23

THERMODYNAMIC PROPERTIES OF BERYLLIUM CHLORIDE ROCKET COMBUSTION PRODUCTS
U-2352 N64-12240 03-26

ORIGIN & DEVELOPMENT OF RADIATION LESIONS IN BLOOD PROTEIN - INVESTIGATION USING THERMAL PROPERTIES OF BLOOD SOLUTIONS N64-12777 04-16

RHEOLOGIC & THERMODYNAMIC PROPERTIES OF SOLID AND SLUSH HYDROGEN
AD-423643 N64-13081 04-11

LATTICE HEAT CAPACITY AND THERMODYNAMIC PROPERTIES OF SOLID HYDROGEN AT SMALL MOLAR VOLUME
UCRL-10757 N64-13212 04-19

THERMODYNAMIC PROPERTIES OF BERYLLIUM COMPOUNDS

AD-427694 N64-13886 05-27

THERMODYNAMIC PROPERTIES OF CRYOGENIC FLUIDS - EVALUATION OF EXPERIMENTAL DATA
NASA-CR-55330 N64-13927 05-19

HIGH TEMPERATURE THERMODYNAMICS OF LIGHT METAL COMPOUNDS
C-64362 N64-14038 05-13

THERMODYNAMIC PROPERTIES OF ARGON, NITROGEN AND OXYGEN PLASMAS
AEDC-TDR-64-12 N64-14139 05-24

THERMODYNAMIC PROPERTIES OF NEON
NASA-CR-55326 N64-14273 06-23

THERMODYNAMIC PROPERTIES OF LIQUID & GASEOUS OXYGEN
NASA-CR-55332 N64-14290 06-19

PARTITION FUNCTIONS AND THERMODYNAMIC PROPERTIES OF HIGH TEMPERATURE GASES AT EQUILIBRIUM
AEDC-TDR-64-22 N64-14370 06-13

THERMODYNAMIC PROPERTIES OF NITROGEN BETWEEN 114 AND 540-DEGREES R.
NBS-TN-129-A N64-14516 06-19

THERMODYNAMIC PROPERTIES OF HEXAFLUOROBENZENE AND TRIETHYLALUMINUM
AD-429092 N64-14814 06-19

THERMODYNAMIC PROPERTIES OF PHENOL FORMALDEHYDE RESIN AT TEMPERATURES TO 6000 DEGREES KELVIN AND PRESSURES TO 100,000 ATMOSPHERES
RM-3988-PR N64-14979 06-13

EQUATIONS FOR EQUILIBRIUM CONCENTRATION IN DISSOCIATED REAL GASES WITH TERMS FOR THERMODYNAMIC FUNCTIONS
DVL-299 N64-15030 07-13

THERMAL AND THERMOELECTRIC PROPERTIES OF FERROMAGNETIC METALS
NASA-CR-53070 N64-15779 07-23

THERMODYNAMICS OF INTERSTITIAL SOLID SOLUTIONS AND REFRACTIVE COMPOUNDS - CARBIDES, OXIDES, AND NITRATES
ASD-TR-61-445, PT. 3 N64-16801 08-25

MEASUREMENT OF SATURATED VAPOR PRESSURE OF CHROMIUM TO DETERMINE THERMODYNAMIC PROPERTIES OF CHROMIUM AND COBALT N64-17032 09-13

KINETIC & THERMODYNAMIC PROPERTIES OF REFRACTORY METAL BORIDES & NITRIDES
UCRL-7559 N64-17073 09-19

THERMODYNAMIC PROPERTIES OF NITROGEN IN CHEMICAL EQUILIBRIUM INCLUDING SECOND VIRIAL CORRECTIONS AT VERY HIGH TEMPERATURES
AEDC-TDR-63-162 N64-17127 09-23

CALCULATING THERMODYNAMIC PROPERTIES OF REAL GASES AT HIGH TEMPERATURE N64-17177 09-13

FORTRAN SUBROUTINE FOR CALCULATING THERMODYNAMIC PROPERTIES OF EQUILIBRIUM AIR AND ELECTRON CONCENTRATIONS AT VARIED DENSITY RANGES
AD-432286 N64-17512 09-20

THERMODYNAMIC PROPERTIES OF METAL BROMIDES, IODIDES, SULFIDES, SULFATES, PHOSPHATES, BORATES, TUNGSTATES, MOLYBDATES, & HYDROXIDES
SC-RR-64-67 N64-17537 09-13

THERMODYNAMIC PROPERTIES AND FORMATION HEATS OF BERYLLIUM COMPOUNDS FOUND IN ROCKET EXHAUST
U-2485 N64-18177 10-26

THERMODYNAMIC PROPERTIES OF ARGON IN TEMPERATURE RANGE 100- TO 3000-DEG K
AEDC-TDR-64-68 N64-18264 10-19

THERMODYNAMIC AND TRANSPORT PROPERTIES OF LIQUID AND VAPOROUS POTASSIUM
NASA-CR-54017 N64-18293 10-18

OPTIMIZATION OF THERMODYNAMIC PROPERTIES AND WORKING CONDITIONS OF ENERGY TURBOCONVERTER
N64-18485 10-04

THERMODYNAMIC PROPERTIES AND MOLLIER DIAGRAM FOR HYDROGEN AT HIGH TEMPERATURES
NASA-SP-3002 N64-18507 10-19

MEASURING THERMODYNAMIC PROPERTIES, THERMOELECTRIC POWER, AND ELECTRICAL CONDUCTIVITY OF METAL OXIDES
RTD-TDR-63-4196 N64-18590 11-25

THERMODYNAMIC PROPERTIES OF PROPELLANT COMBUSTION PRODUCTS - VAPORIZATION OF BORON AND ENTROPIES OF GASEOUS METAL HALIDES
U-2403/2 N64-18742 11-24

THERMODYNAMIC PROPERTIES OF ROCKET SOLID PROPULSION SYSTEMS
CPIA-44, VOL. 1 N64-18801 11-13

THERMODYNAMIC PROPERTIES OF VARIOUS OXIDES AND CARBIDE VAPORIZATION N64-18806 11-13

THERMODYNAMIC PROPERTIES OF BERYLLIUM COMPOUNDS
N64-18811 11-13

TRANSPIRATION, EFFUSION, AND MOLECULAR FLOW STUDIES OF THERMODYNAMIC PROPERTIES OF BERYLLIUM COMPOUNDS N64-18813 11-13

ENTROPY AND HEAT CAPACITY CALCULATIONS OF CHEMICAL COMPOUNDS AT LOW AND HIGH TEMPERATURES - THERMODYNAMIC PROPERTIES N64-18824 11-13

THERMODYNAMIC AND TRANSPORT PROPERTIES OF GASES AT HIGH TEMPERATURES AND PRESSURES - SQUID PROJECT
N64-18856 11-24

HEAT CAPACITY OF SODIUM BROMIDE AND SODIUM IODIDE AT LOW TEMPERATURES - THERMODYNAMIC PROPERTIES
BM-RI-6435 N64-18989 11-19

MOLLIER DIAGRAM SHOWING THERMODYNAMIC PROPERTIES OF AIR IN CHEMICAL EQUILIBRIUM N64-19079 11-23

THERMODYNAMIC PROPERTIES OF DISSOCIATED AND IONIZED ARGON, NITROGEN, & OXYGEN GASES FOR TEMPERATURES TO 35,000 DEG K N64-19828 12-23

THERMODYNAMIC PROPERTIES OF NIOBIUM CARBIDE
BM-RI-6446 N64-20516 13-13

DERIVATION OF SECOND AND THIRD VIRIAL COEFFICIENTS FOR COMPUTATION OF THERMODYNAMIC AND TRANSPORT PROPERTIES OF HYDROGEN N64-20595 13-23

THERMAL TRANSIENTS RESULTING FROM INSTANTANEOUS HEAT SOURCES IN SOLIDS WITH TEMPERATURE DEPENDENT THERMAL PROPERTIES
D1-82-0310 N64-20624 13-13

MATERIALS SCIENCE - THERMAL AND MECHANICAL PROPERTIES, MORPHOLOGY, & INFRARED SPECTROSCOPY
NASA-CR-56129 N64-20709 13-19

SYNTHESIS AND PROPERTIES OF FLUORIDES AND PLASMA REACTIONS OF FLUOROCARBONS
AD-439596 N64-20855 14-07

EQUILIBRIUM CONCENTRATIONS, THERMODYNAMIC, AND NORMAL SHOCK PROPERTIES FOR PURE AND IMPURE AIR
GD/A-63-0174 N64-21167 14-24

COMPILATION OF THERMODYNAMIC PROPERTIES AND FUNCTIONS OF PARA HYDROGEN AT LOW TEMPERATURE AND HIGH PRESSURE
R-315 N64-21843 15-19

GRAPHIC STUDY OF PHYSICAL, THERMODYNAMIC AND QUANTUM MECHANICAL PROPERTIES OF HELIUM-3 AND HELIUM-4
MLM-1161 N64-22103 15-07

THERMODYNAMICS, HEAT TRANSFER, AND COMBUSTION CHARACTERISTICS OF GASES
FTD-TT-63-922/1&4 N64-22357 15-13

THERMAL VALUES AND EQUATION OF STATE FOR HYDROGEN
FTD-TT-62-1569/1&2&4 N64-22625 15-13

IBM 7090 COMPUTER CALCULATION OF PROPELLANT THERMODYNAMIC PROPERTIES
NOLTR-63-202 N64-22706 15-20

THERMODYNAMIC PROPERTIES OF ALUMINUM-BORON-OXYGEN AND BERYLLIUM-BORON-OXYGEN SYSTEMS
QR-7 N64-22708 15-07

THERMODYNAMIC PROPERTIES OF NEON
N64-22950 16-13

THERMODYNAMIC PROPERTIES OF GASEOUS AND LIQUID CARBON MONOXIDE AT LOW TEMPERATURES AND HIGH PRESSURES
NBS-TN-202 N64-23165 16-13

PERFLUOROCYCLOBUTANE - THERMODYNAMIC PROPERTIES OF REAL GAS
BM-RI-6475 N64-23249 16-26

THERMODYNAMIC ANALYSIS & HEAT CALCULATION IN HIGH VELOCITY COMBUSTION CHAMBER OF LIQUID PROPELLANT ROCKET ENGINE N64-23633 16-13

THERMODYNAMICS OF NONEQUILIBRIUM FLOW, WATER FLOW BREAKUP, AND FLAME FRONT STRUCTURES
FTD-TT-63-839/1&2&4 N64-23651 16-11

HYDRODYNAMICS OF RELAXING MEDIA & THERMODYNAMICS OF NONEQUILIBRIUM FLOW N64-23652 16-11

THERMODYNAMIC PROPERTIES OF ROCKET ENGINE COMBUSTION PRODUCTS
U-2666 N64-25343 17-13

HARDENABILITY OF TITANIUM BASE ALLOYS OBSERVED BY METALLOGRAPHIC EXAMINATION
ILL-13-P N64-25793 17-11

DATA ACQUISITION FOR CRYOGENIC SYSTEMS - COMPILATION OF THERMODYNAMIC PROPERTY AS EXAMPLE
N64-26015 18-13

THERMODYNAMIC AND TRANSPORT PROPERTIES FOR HYDROGEN-OXYGEN SYSTEM
NASA-SP-3011 N64-26785 18-26

THERMODYNAMIC PROPERTIES OF HIGH TEMPERATURE HELIUM
REPT.-0-71000/3R-11 N64-26802 18-13

THERMODYNAMIC AND MECHANICAL PROPERTIES OF NIOBIUM-NITROGEN AND NIOBIUM-ZIRCONIUM-NITROGEN ALLOYS
ML-TDR-64-134 N64-27461 19-18

APPROXIMATE THERMODYNAMIC FUNCTIONS OF IONIC SPECIES IN HYDROCARBON FLAME SYSTEMS
TRG4-02D N64-27570 19-26

PHYSICAL AND THERMODYNAMIC PROPERTIES OF MATERIALS AT HIGH TEMPERATURES
JPRS-26065 N64-27762 19-18

EQUILIBRIUM COMPOSITION AND THERMODYNAMIC PROPERTIES OF CYANOGEN-OXYGEN COMBUSTION PRODUCTS
NASA-TN-D-2422 N64-27924 20-26

THERMODYNAMIC PROPERTIES OF CUPROUS AND CUPRIC FERRITES
BM-RI-6513 N64-28107 20-07

HIGH TEMPERATURE EQUILIBRIUM THERMODYNAMIC PROPERTIES OF AIR N64-28177 20-13

THERMAL AND PHYSICAL PROPERTIES OF CERAMIC MATRICES
IER-5 N64-28569 20-17

THERMODYNAMIC, MECHANICAL, MAGNETIC, AND TRANSPORT PROPERTIES OF GROUP V AND VI ANIONS
ANL-6856 N64-28727 20-25

THERMODYNAMIC PROPERTIES OF BIMETALLIC COMPOUNDS
AD-442550 N64-28819 20-13

DIFFERENCES IN THERMODYNAMIC AND TRANSPORT PROPERTIES BETWEEN CARBON DIOXIDE AND NITROGEN - LOW DENSITY WIND TUNNEL NOZZLE DESIGN
NASA-CR-58314 N64-29359 21-34

THERMODYNAMIC PROPERTIES OF NATURAL RUBBER AND -ISOPRENE
NOLTR-64-79 N64-29792 21-19

THERMODYNAMIC FUNCTIONS OF HAFNIUM HALIDES
FTD-TT-64-457/1 N64-29894 21-13

THERMOPHYSICAL PROPERTIES OF SODIUM AND POTASSIUM AND THEIR VAPORS
NRL-6128 N64-29959 21-18

PHYSICAL AND THERMODYNAMIC PROPERTIES OF ROCKET EXHAUST PRODUCTS
QR-7414-11 N64-30140 21-07

THERMODYNAMIC PROPERTIES OF COMPOUNDS OF HYDROGEN, CARBON, NITROGEN, OXYGEN, PHOSPHORUS, AND SULFUR
NASA-CR-58786 N64-30515 22-07

ELECTRICAL AND THERMAL PROPERTIES AND APPLICATIONS OF OXIDE SEMICONDUCTOR MATERIALS
REPT.-10 N64-31131 22-25

THERMODYNAMIC PROPERTIES OF MOLTEN LEAD SILICATES
N64-31411 23-07

THERMODYNAMIC PROPERTIES OF ARGON AT HIGH TEMPERATURES
FTD-TT-64-461/1 N64-31800 23-24

THERMODYNAMIC PROPERTIES OF PROPELLANT COMBUSTION PRODUCTS - PERFORMANCE PARAMETERS FOR COMPUTER PROGRAM
U-2289 N64-32125 23-26

THERMODYNAMIC PROPERTIES OF WATER VAPOR UNDER LOW ATMOSPHERIC TEMPERATURES AND PRESSURES - HYGROMETRIC TABLES
RM-4244-PR N64-32177 23-21

THERMODYNAMIC PROPERTIES OF SOLID SOLUTIONS OF SELENIDES & TELLURIDES OF BISMUTH & ANTIMONY AND COMPOUNDS OF MAGNESIUM & INDIUM
AFCRL-64-623 N64-32301 23-07

THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM HALIDES
QPR-2 N64-32678 23-10

THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM HALIDES
QPR-1 N64-33030 24-07

INTERPOLATIONS OF IMPERFECT NITROGEN THERMODYNAMIC DATA AT CONSTANT ENTROPY
AEDC-TDR-64-212 N64-33114 24-13

THERMODYNAMIC PROPERTIES OF CRYOGENIC FLUIDS
N64-33747 24-13

THERMODYNAMIC PROPERTIES OF HIGH PURITY THORIUM DICARBIDE
UCRL-12003 N64-33851 24-07

THERMODYNAMICS
SA ENTHALPY
SA ENTROPY
SA HEAT TRANSFER
CF FLUID MECHANICS
CF PLASMA PHYSICS
DETERMINATION OF SOUND PROPAGATION RATE IN LIQUIDS
FLUID DYNAMICS, FLIGHT MECHANICS, THERMODYNAMICS AND STRUCTURAL DYNAMICS
S.M.F. FUND PAPER-FF-34 N64-10080 01-01

THERMODYNAMIC COMPARISON BETWEEN SUBSONIC AND SUPERSONIC FUEL COMBUSTION N64-10135 01-27

THERMODYNAMICS OF IRREVERSIBLE PROCESSES APPLIED TO FLOW OF MULTICOMPONENT LIQUID THROUGH POROUS MEDIA N64-11967 03-11

THERMODYNAMICS & FLUID DYNAMICS OF MATTER UNDER HIGH STRESS N64-13432 05-23

THERMODYNAMIC & TRANSPORT PROPERTIES OF GASES AT HIGH TEMPERATURES AND PRESSURES - SQUID PROJECT
N64-13480 05-24

TRANSIENT AEROTHERMODYNAMIC PROCESSES IN GAS COOLED REACTORS
UCRL-7606 N64-15328 07-23

BIBLIOGRAPHY OF AERODYNAMICS, INSTALLATIONS, HEAT TRANSFER, THERMODYNAMICS, AND ELECTRONICS RESEARCH FOR WEAPONS SYSTEM 107A-1
GDA-ACW64-002 N64-16985 09-30

DEVELOPMENT OF AEROTHERMODYNAMIC PROCEDURES FOR DESIGNING HIGH SPEED VEHICLE LEADING EDGES
NA63H-982 N64-17123 09-13

HIGH TEMPERATURE VAPOR PHASE THERMODYNAMICS OF LIGHT METAL COMPOUNDS
C-64362, NO. 8 N64-17459 09-13

THERMODYNAMICS OF SPACE FLIGHT
NASA-TM-X-51282 N64-17672 09-13

GAS-LIQUID CHROMATOGRAPHIC INVESTIGATION OF THERMODYNAMICS OF NONELECTROLYTE SOLUTIONS
NASA-CR-53391 N64-18175 10-07

CRITICAL TABLES CONCEPT IN RELATION TO CHEMICAL THERMODYNAMICS
N64-18274 10-13

HEATS OF FORMATION AND THERMODYNAMICS OF ORGANIC DERIVATIVES OF LIGHTER ELEMENTS FOR CHEMICAL PROPULSION
N64-19031 11-07

QUANTUM STATISTICAL MECHANICS - MICROCANONICAL ENSEMBLE FOR STUDY OF THERMODYNAMICS OF MONATOMIC CRYSTALS
ONR-TR-RLT-70 N64-19731 12-23

STATE EQUATION DESCRIBING THERMODYNAMIC BEHAVIOR OF METALS OVER WIDE RANGE OF TEMPERATURE AND COMPRESSION
RM-3905-PR N64-20280 13-20

CHEMISTRY, PHYSICS, AND THERMODYNAMICS OF ROCKET NOZZLE FLOW, MATERIAL STRESS, & SOLID PROPELLANTS
P-64-6 N64-20307 13-26

COMPUTER PROGRAM FOR THERMODYNAMIC ANALYSIS OF CHEMICAL REACTIONS IN TUNGSTEN AND RHENIUM VAPOR PLATING
UCRL-7667 N64-20430 13-20

ANNOTATED BIBLIOGRAPHY ON THERMODYNAMICS OF BERYLLIUM AND ITS REFRACTORY COMPOUNDS - OXIDES, CARBIDES, & NITRIDES
SB-63-16 N64-20893 14-13

THERMODYNAMICS OF FAILURE AND AGING
N64-20989 14-13

THERMODYNAMIC & STATISTICAL APPROACH TO NUCLEAR DYNAMIC POLARIZATION
LNF-63/15 N64-21771 15-23

COMPONENT RELIABILITY, HARDWARE, AND THERMODYNAMIC ANALYSIS OF DYNA-SOAR SPACE GLIDER
DSR-14 N64-21996 15-30

THERMODYNAMIC ANALYSIS OF TURBOJET ENGINE OPERATION
FTD-TT-63-515/1&2 N64-22183 15-27

THERMODYNAMIC CALCULATIONS FOR LIQUID OXIDIZER AND SOLID FUEL COMBINATIONS IN HYBRID ROCKETS
FA-R-1715 N64-22274 15-27

THERMODYNAMICS - SPECIFIC HEAT AND SOUND SPEED DATA FOR INPERFECT AIR AND NITROGEN
AEDC-TDR-64-114 N64-22606 15-11

HIGH TEMPERATURE THERMODYNAMICS OF LIGHT METAL COMPOUNDS
C-64362, NO. 9 N64-22717 15-23

RELATIONSHIP OF TWO-PHASE TOXICITY AND THERMODYNAMIC ACTIVITY IN TOXICOLOGY
N64-23367 16-16

KINETICS AND THERMODYNAMICS OF CHLORINE-HYDROGEN MIXTURE COMBUSTION
FTD-TT-62-1688/1&2 N64-23476 16-2

SUPERSONIC FLOW PAST BLUNT BODIES AND THERMODYNAMICS OF IONIZED GASES
FTD-TT-63-211/1&2 N64-23598 16-9

MATHEMATICAL ANALYSIS OF THERMODYNAMIC EQUATIONS FOR IONIZED GAS TEMPERATURE EFFECT ON ATOMIC ELECTRONIC STRUCTURE
N64-23600 16-11

HYPERSONIC AEROTHERMODYNAMICS
AASU-251 N64-23908 16-8

STATISTICAL MECHANICS OF IRREVERSIBLE THERMODYNAMIC REACTIONS USING GIBBS EQUATIONS
RSIC-187 N64-24348 17-1

THERMODYNAMICS IN CONTINUUM MECHANICS
N64-25657 17-2

SHIP STABILIZING SYSTEMS, PURE FLUID SYSTEMS, AND PROJECTED DEVELOPMENTS IN MECHANICS, AERODYNAMICS, THERMODYNAMICS, AND HYDRODYNAMICS
DME/NAE-1964 /1/ N64-26284 18-6

ONSANGER PRINCIPLE OF IRREVERSIBLE THERMODYNAMICS APPLIED TO VISCOELASTIC BODIES SUBJECTED TO FINITE DEFORMATION
AES-64-1 N64-26687 18-1

DERIVATION OF EQUATIONS FOR THERMODYNAMICS OF IRREVERSIBLE PROCESSES
WIS-TCI-42 N64-27520 19-1

THERMODYNAMICS OF ALUMINUM-BORON-OXYGEN AND BERYLLIUM-BORON-OXYGEN SYSTEMS
QR-8 N64-27606 19-1

THERMODYNAMICS OF ALUMINUM-BORON-OXYGEN AND BERYLLIUM-BORON-OXYGEN SYSTEMS
QR-5 N64-27607 19-1

PROPERTIES OF ALKALI AZIDES AND BARIUM AZIDES AND EFFECTS ON THERMODYNAMIC AND THERMOCHEMICAL DATA
MTSR-1 N64-28149 20-8

KINETIC THEORY OF GASEOUS THERMODYNAMICS
N64-28179 20-1

BIOPHYSICS - THERMODYNAMICS OF PHOTOSYNTHESIS, AND TRANSITION PROBABILITIES IN MOLECULES WITH CONJUGATE SYSTEM OF PI-ELECTRONS
JPRS-25733 N64-28309 20-1

THERMODYNAMICS OF PHOTOSYNTHESIS
N64-28310 20-1

AEROTHERMAL CAPABILITY OF PLASMA HEATERS - HIGH PRESSURE AIR GENERATION
REPT.-25116 N64-28619 20-1

AERODYNAMIC AND AEROTHERMODYNAMIC STUDY ON HIGH ALTITUDE SOUNDING PROJECTILE /HASP/
NOLTR-63-210 N64-28875 20-8

THERMODYNAMICS AND HEAT TRANSFER
FTD-TT-63-17/1&2 N64-29246 21-1

INTERPOLATIONS OF INPERFECT AIR THERMODYNAMIC DATA AT CONSTANT PRESSURE
AEDC-TDR-64-184 N64-29443 21-1

THERMODYNAMIC CYCLES OF GAS LIQUIFIERS FOR SPACE OPERATION
ASD-TDR-63-775 N64-29936 21-8

RESEARCH PROJECTS IN MECHANICS, HYDRODYNAMICS, AERODYNAMICS AND THERMODYNAMICS
DME/NAE 1963/4/ N64-30369 22-1

CHEMICAL COMPOSITIONS AND THERMODYNAMIC CALCULATIONS OF FIREFLY PROJECT
N64-31377 23-1

APPLICATION OF VARIATIONAL AND LAGRANGIAN THERMODYNAMICS EXTENDED TO PROBLEMS OF HEAT CONDUCTION WITH MELTING BOUNDARIES

CAL-SA-987-S-12 N64-32293 23-13

THERMOMOLECULAR PRESSURE RISE IN GAS APPLIED TO ENERGY CONVERSION
ASD-TDR-63-776, VOL. II N64-32567 23-11

ARTIFICIAL SATELLITE PHOTOGRAPHY OF CYCLONE AND BALLOON OBSERVATIONS OF THERMODYNAMIC STABILITY OF ATMOSPHERIC BOUNDARY LAYER
JPRS-26772 N64-32783 24-21

THERMODYNAMIC STABILITY OF ATMOSPHERIC BOUNDARY LAYER FROM BALLOON OBSERVATIONS
N64-32785 24-21

ELECTRIC DEFLECTION AND MASS SPECTROMETRIC STUDY OF HIGH TEMPERATURE THERMODYNAMICS OF LIGHT METAL COMPOUNDS
C-64362 N64-32809 24-13

STRUCTURAL DESIGN, VIBRATION MEASUREMENT SYSTEM, THERMOCOUPLE, TRAJECTORY, DISPERSION, AND SAFETY DATA FOR AEROTHERMODYNAMIC AND AEROTHERMOELASTIC SPACE VEHICLE - ASSET PROGRAM
MPL-26 N64-32926 24-31

THERMAL DESIGN OF SATURN I /SA-5/ LAUNCH VEHICLE PAYLOAD
NASA-TM-X-53074 N64-34005 24-32

THERMOELASTICITY
AEROTHERMOELASTIC TESTING IN FREE JET
N64-15647 07-11

AEROTHERMOELASTIC PROBLEMS WITH SCALING LAWS IN DYNAMIC MODEL SIMULATION OF REENTRY GLIDE VEHICLES
N64-29271 21-33

STRUCTURAL DESIGN, VIBRATION MEASUREMENT SYSTEM, THERMOCOUPLE, TRAJECTORY, DISPERSION, AND SAFETY DATA FOR AEROTHERMODYNAMIC AND AEROTHERMOELASTIC SPACE VEHICLE - ASSET PROGRAM
MPL-26 N64-32926 24-31

THERMOELECTRIC CONVERSION SYSTEM
VANADIA CATALYZED BURNER USING LEADED GASOLINE AS FUEL FOR THERMOELECTRIC GENERATOR
G-82088-2 N64-13796 05-26

SKILLS AND FACILITIES FOR THERMOELECTRIC ENERGY CONVERSION SYSTEMS N64-19378 12-06

SPACECRAFT POWER SUPPLY - THERMOELECTRIC CONVERTER FOR SNAP-10A SYSTEM N64-19380 12-06

HIGH TEMPERATURE THERMOELECTRIC GENERATORS WITH NUCLEAR & SOLAR HEAT SOURCES FOR SPACECRAFT POWER SUPPLY
AD-437280 N64-20024 13-09

THERMOELECTRIC ENERGY CONVERSION AND COMPOUND SEMICONDUCTOR MATERIALS FOR CONVERTER APPLICATIONS
AD-601039 N64-21169 14-25

THERMOELECTRIC CONVERSION SYSTEM - MAGNETIC FIELD EFFECT, SPACE CHARGE EFFECT, AND ALTERNATING VOLTAGE GENERATION
FTD-TT-64-528/1&2 N64-26183 18-06

SOLAR FLAT PLATE THERMOELECTRIC CONVERTER
APL-TDR-64-87 N64-30972 22-06

ELECTRIC POWER GENERATION FOR SPACE VEHICLES - BATTERIES, SOLAR CELLS, THERMOELECTRIC CONVERTERS, MAGNETOHYDRODYNAMIC CONVERTERS, FUEL CELLS, AND THERMIONIC CONVERTERS N64-32770 24-06

DIRECT ENERGY CONVERSION SYSTEMS - FUEL CELLS, MAGNETOGASDYNAMICS, THERMOELECTRICITY
AD-406355 N64-32867 24-24

THERMOELECTRIC MATERIAL
PHYSIOCHEMICAL FACTORS CONTRIBUTING TO THERMOELECTRIC PROPERTIES OF MATERIALS
N64-10003 01-13

SOLAR FLAT PLATE THERMOELECTRIC GENERATOR
QR-3 N64-13985 05-06

POWER FLATTENING STUDY - EXPONENTIAL DECAY OF RADIOISOTOPIC HEAT SOURCE OF THERMOELECTRIC GENERATOR
NYO-9783 N64-15332 07-06

RESISTIVITY AND SEEBECK COEFFICIENT MEASUREMENTS ON LIQUID THERMOELECTRIC MATERIALS
REPT.-3 N64-26678 18-25

LIQUID THERMOELECTRIC MATERIALS APPLIED TO DIRECT ENERGY CONVERSION
QPR-4 N64-30083 21-25

THERMAL CONDUCTIVITY, THERMOELECTRIC POWER, AND ELECTRICAL RESISTIVITY OF STOICHIOMETRIC TITANIUM-NICKEL ALLOY
NOLTR-64-76 N64-31085 22-25

THERMOELECTRIC AND THERMOMAGNETIC COOLING AND MATERIAL DEVELOPMENT FOR SPACECRAFT APPLICATION
NASA-CR-59203 N64-33176 24-25

THERMOELECTRICITY
SA SEEBECK EFFECT
SA THERMOCOUPLE
CRYSTALLOCHEMICAL STRUCTURE OF RARE EARTH BORIDES RELATED TO THERMIONIC EMISSION AND MAGNETIC, ELECTRIC, AND THERMOELECTRIC PROPERTIES
N64-10675 02-19

ELECTRONIC PROPERTIES OF LEAD AND TIN TELLURIDES FOR THERMOELECTRIC CONVERTERS
AFCRL-63-633 N64-12660 04-25

THERMOELECTRIC PROPERTIES OF THERMIONIC CONVERTERS ANALYZED USING LANGMUIR PROBE ANALOGY
RR-TR-63-22 N64-12666 04-09

MODEL FOR DIFFUSIVE MAGNETOTHERMOELECTRIC GENERATOR
AD-421931 N64-12974 04-15

USE OF HIGH TEMPERATURE THERMOELECTRIC GENERATORS POWERED WITH NUCLEAR AND SOLAR HEAT SOURCES IN AEROSPACE VEHICLES
QPR-1 N64-14302 06-06

CYCLED LIFETIME OF FOUR THERMOELECTRIC POWER MODULES
QPR-2 N64-14809 06-06

THERMAL AND THERMOELECTRIC PROPERTIES OF FERROMAGNETIC METALS
NASA-CR-53070 N64-15779 07-23

THERMOELECTRIC POWER OF ANNEALED AND COLD WORKED BISMUTH N64-17967 10-23

MEASURING THERMODYNAMIC PROPERTIES, THERMOELECTRIC POWER, AND ELECTRICAL CONDUCTIVITY OF METAL OXIDES
RTD-TDR-63-4196 N64-18590 11-25

METHODS & INSTRUMENTATION FOR DIRECT ENERGY CONVERSION - THERMIONICS, MAGNETOHYDRODYNAMICS, AND THERMOELECTRICITY N64-19376 12-06

THERMIONIC ENERGY CONVERTER - ELECTRON DEVICE CONVERTING HEAT DIRECTLY INTO ELECTRICITY.
N64-19387 12-06

SEEBECK, PELTIER, AND THOMPSON EFFECTS - THERMOELECTRIC THEORY
NRL-5888 N64-20326 13-23

THERMOELECTRIC POTENTIAL OF REFRACTORY AND LIQUID METALS N64-20479 13-23

THERMOELECTRIC POWER MODULES
AD-600365 N64-21326 14-06

FEASIBILITY OF COMBINING SOLAR ENERGY, THERMAL STORAGE, AND THERMOELECTRIC GENERATOR AS POWER SUPPLY FOR SPACE APPLICATION
RTD-TDR-63-4248 N64-21568 15-06

THERMOELECTRIC AND HYDROELECTRIC POWERPLANTS AND TRANSMISSION LINE NETWORKS FOR NATIONWIDE ELECTRIC POWER SYSTEM IN RUSSIA
FTD-TT-63-820/1&2 N64-22179 15-10

NUCLEAR REACTOR POWERED THERMOELECTRONIC GENERATOR
FTD-TT-62-1024/1 N64-22639 15-06

THERMOELECTRIC GENERATOR-HEATER DESIGN
AD-438410 N64-25277 17-13

CHEMICAL ENGINEERING, NUCLEAR FUELS, NEUTRON CROSS SECTIONS, THERMOELECTRICITY, AND HIGH TEMPERATURE MATERIALS
ANL-6875 N64-25521 17-01

THERMOELECTRIC CONTROL IN FREQUENCY STANDARD
IDR-12 N64-26280 18-23

THERMIONIC AND THERMOELECTRIC ENERGY CONVERSION
NASA-CR-58125 N64-26371 18-06

MOLTEN OR FUSED SALTS EVALUATED AS THERMOELECTRIC MATERIAL FOR REGENERATIVE FUEL CELL
NASA-TN-D-2440 N64-27361 19-06

TRANSPORT PROPERTIES OF SEMICONDUCTOR COMPOUNDS FOR APPLICATIONS TO THERMOELECTRICITY
TRECOM-TR-64-35 N64-31905 23-25

TRANSIENT BEHAVIOR IN THERMOELECTRIC POWER GENERATION - ANALYTIC METHOD
AD-423163 N64-32951 24-06

MAGNETOGASDYNAMIC, FUEL CELL, AND THERMOELECTRIC ENERGY CONVERSION
AD-423164 N64-32963 24-24

THERMOMETER
SA BOLOMETER
CONVECTIVE AND RADIATIVE HEAT TRANSFER MEASUREMENT WITH THIN FILM RESISTANCE
NASA-CR-27 N64-17771 09-13

RADIATION THERMOMETER FOR CONTROLLING AND REGULATING FURNACE TEMPERATURE DURING METAL ANNEALING
FTD-TT-63-64/1&2 N64-21943 15-15

RESPONSE AND CORRECTIONS TO THERMISTOR AND PLATINUM WIRE RESISTANCE THERMOMETER FOR TEMPERATURE MEASUREMENTS IN UPPER ATMOSPHERE
PAD-83 N64-22493 15-25

ERRORS IN USE OF AIRBORNE INFRARED RADIATION THERMOMETER FOR OCEAN SURFACE TEMPERATURE MEASUREMENT
AD-601473 N64-27622 19-15

COPPER TRANSMITTING ELEMENTS OF ELECTRONIC THERMOMETERS FOR MEASURING CONVECTIVE MOTION OF CUMULUS CLOUDS
E-T-R-64-14 N64-31681 23-21

THERMOMETRY
CF CALORIMETRY
INTERNATIONAL PRACTICAL TEMPERATURE SCALE FOR TEMPERATURE MEASUREMENTS BELOW 1000-DEG K USING PLATINUM RESISTANCE THERMOMETERS
N64-10939 02-13

THERMOCOUPLE AND RADIATION THERMOMETRY ABOVE 900 DEG K
N64-10940 02-13

THERMOPHILIC PLANT
EFFICIENCY OF RESPIRATION AS ENERGY SOURCE IN THERMOPHILIC PLANT
JPRS-21501 N64-10067 01-16

THERMOPHYSICAL PROPERTY
THERMOPHYSICAL PROPERTIES OF RUBIDIUM AND CESIUM
MSAR-63-116 N64-19312 12-18

THERMOPHYSICAL PROPERTIES OF SODIUM AND POTASSIUM AT HIGH TEMPERATURES
NRL-5964 N64-20845 14-18

THERMOPHYSICAL PROPERTIES OF GRAPHITE TO HIGH TEMPERATURES - BULK DENSITY & RADIOGRAPHY, SAMPLE PREPARATION & INSTRUMENT CHECKOUT
AD-438206 N64-21322 14-19

THERMOPHYSICAL PROPERTIES OF THERMAL INSULATING MATERIALS
ML-TDR-64-5 N64-22689 15-19

MECHANICAL AND THERMOPHYSICAL PROPERTIES OF COATED NIOBIUM AND TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOYS AND SUPERALLOY THIN SHEET
SID-63-956 N64-24126 16-18

THERMOPHYSICAL PROPERTIES OF SODIUM AND POTASSIUM AT HIGH TEMPERATURES
NRL-6004 N64-25335 17-18

THERMOPHYSICAL PROPERTIES OF TUNGSTEN, NIOBIUM, MOLYBDENUM, AND TANTALUM - REFRACTORY ELEMENTS
N64-27585 19-18

THERMOPHYSICAL AND TRANSPORT PROPERTIES OF LIQUID METALS
MSAR-64-36 N64-27702 19-13

BIBLIOGRAPHY OF THERMOPHYSICAL PROPERTIES OF ARGON
NASA-CR-56793 N64-27835 19-23

HIGH TEMPERATURE THERMOPHYSICAL PROPERTIES OF SODIUM AND POTASSIUM
NRL-6094 N64-28814 20-18

THERMOPHYSICAL AND TRANSPORT PROPERTIES OF LIQUID METALS
MSAR-64-78 N64-30576 22-18

GENERATION OF TABLES OF THERMOPHYSICAL PROPERTIES OF MATERIALS
ML-TDR-64-184 N64-30932 22-13

METHODS FOR DETERMINATION OF THERMOPHYSICAL PROPERTIES OF MATERIALS N64-31870 23-13

THERMOPHYSICS
CRUCIBLE HIGH-TEMPERATURE VACUUM FURNACE WITH TUNGSTEN HEATING ELEMENT FOR THERMOPHYSICAL INVESTIGATIONS TO 2500-DEG C N64-12775 04-18

THERMONUCLEAR PHYSICS
ORNL-3564 N64-14954 06-24

HIGH TEMPERATURE THERMODYNAMICS AND THERMOPHYSICS
JPRS-24143 N64-18295 10-13

HIGH TEMPERATURE THERMOPHYSICS - LIQUID METALS, GASEOUS HEAT TRANSFER, AND PLASMA GENERATORS
FTD-TT-63-1090/1 N64-19755 12-23

THERMOSETTING
LOW PRESSURE FORMING OF THERMOSETTING PLASTICS AND GLASS FIBERS
JPRS-22184 N64-11598 03-19

THERMOPLASTIC & THERMOSETTING RESINS FROM PHOSPHONITRILIC CHLORIDE TRIMER
TR-3 N64-14626 06-19

PREPARATION OF NEW THERMOPLASTIC, THERMOSETTING POLYMERS FROM PHOSPHONITRILIC CHLORIDE TRIMER
AD-429132 N64-15695 07-07

THERMOSETTING CHARACTERISTICS OF BINDERS FOR GRAPHITE
WADD-TR-61-72, VOL. XXXII N64-24949 17-19

CAPILLARY EXTRUSION RHEOMETER TO MEASURE FLOW PROPERTIES OF THERMOSETTING PLASTIC MOLDING POWDERS
MLM-1211 N64-29608 21-19

THERMOSTABILITY
THERMAL STABILITY OF HEAT-RESISTANT ALLOYS
FTD-TT-63-147/1&2 N64-12838 04-18

SYNTHESIS OF HEAT RESISTANT ELASTOMERS AND EVALUATION FOR IMPROVED THERMAL STABILITY
RIA-63-3591 N64-12977 04-13

DETERIORATION OF JET FUEL THERMAL-STABILITY DURING NORMAL STORAGE, AND STABILITY ADDITIVES - LITERATURE REVIEW
RTD-TDR-63-4270 N64-15735 07-24

THERMOSTABILITY AND CHEMICAL REACTIONS OF OXYGEN FLUORIDES

IITRI-C227-6 N64-16509 08-07

SURFACE PHENOMENA LEADING TO SEMICONDUCTOR DEVICE FAILURE AND LATERAL THERMAL INSTABILITIES IN POWER TRANSISTORS
RADC-TDR-64-6 N64-18255 10-25

INTERMITTENT CREEP AND STABILITY TEST OF EXPOSURE TO HIGH TEMPERATURE, AND FRACTURE TOUGHNESS
FPR-007/4/ N64-19159 11-18

THERMALLY STABLE CARBORANE SILOXANE MATERIALS USED AS EMBEDDING COMPOUNDS AND ELASTOMERS - DIELECTRIC MATERIALS
RMD-5038-Q1 N64-19801 12-19

WELDABILITY AND THERMOSTABILITY OF REFRACTORY ALLOYS
NASA-CR-56136 N64-20725 13-18

SYNTHESIS AND THERMAL STABILITY OF COORDINATION POLYMERS
RSIC-175 N64-21458 14-07

DIFFUSIVE-THERMAL STABILITY OF LAMINAR FLAME N64-23685 16-11

THERMAL STABILITY OF HIGH TEMPERATURE FLUIDS AND INTERMIXTURES
RIA-64-231 N64-26198 18-17

THERMOSTABLE ORGANIC SILANE POLYMERS
NASA-TM-X-53028 N64-27245 19-07

THERMOSTABILITY OF SEALANT ELASTOMERS
WAPD-TM-432 N64-27407 19-19

SYNTHESIS OF THERMALLY STABLE POLYPHENYLETHER ELASTOMERS
AD-600121 N64-30149 21-07

PHOSPHONITRILE POLYMERS WITH HIGH TEMPERATURE STABILITY
QR-3 N64-30535 22-07

SOLID STATE LOW-VOLTAGE REGULATOR WITH TEMPERATURE STABILITY USING THERMISTOR COMPENSATION, FORWARD-BIASED DIODES, AND MATCHED SILICON TRANSISTORS
HDL-TR-1222 N64-30619 22-15

PREPARATION OF THERMALLY STABLE CARBORANE SILICONE MATERIALS FOR USE AS EMBEDDING COMPOUNDS AND ELASTOMERS
RMD-5026-F N64-31265 22-07

THERMOSTABILITY OF HYDROCARBON FUELS
APL-TDR-64-89, PT. I N64-33304 24-26

THERMOSTAT
SA CRYOSTAT
THERMOSTAT FOR MASER RESONATORS N64-23807 16-25

SPACECRAFT TEMPERATURE CONTROL SYSTEM WITH THERMOSTATIC FINS - SPACECRAFT ELECTRONIC EQUIPMENT
NASA-CR-91 N64-27758 19-30

THERMOSTATIC CONDITIONING OF RECTIFIERS FOR MEASUREMENT OF VOLTAGE N64-31871 23-15

SOLID STATE THERMOSTAT USING THERMISTOR SENSOR AND TRANSISTOR CIRCUITS
NASA-CR-58058 N64-33038 24-09

THERMOTROPISM
THERMOPHOTOTROPIC PHENOMENOLOGICAL MODEL
NASA-TR-R-184 N64-12694 04-23

THETA PINCH
AC STABILIZATION OF MAGNETIC CONFINEMENT OF PLASMA COLUMN IN THETA PINCH APPARATUS
TDR-169/3210-02/TR-1 N64-12060 03-21

THETA PLASMA PINCH NUMERICAL ANALYSIS BY COMPUTER PROGRAM
LAMS-2944 N64-20634 13-24

ACCELERATION MECHANISMS FOR HIGH ENERGY ELECTRONS IN THETA PINCH
NUP-64-8 N64-30640 22-24

THIAMINE
THIAMINE AND RIBOFLAVIN CONTENT OF TISSUES IN BURN SHOCK N64-10010 01-16

EARLY ONSET OF THIAMINELESS DEATH IN BACTERIAL STRAINS AFTER EXPOSURE TO ULTRAVIOLET LIGHT
PN-6117 N64-13204 04-16

INFLUENCE OF RADIOACTIVE THYMIDINE ON X-RADIATION EFFECTS ON DESOXYRIBONUCLEIC ACID SYNTHESIS N64-19150 11-16

THIAZOLE
DERIVATIVES OF PYRIDYLTHIAZOLYMETHANE AS PHYSIOLOGICALLY ACTIVE SUBSTANCES
E-T-R-63-2 N64-12280 03-07

RECOVERY OF MOUSE TISSUE FROM RADIATION INJURY BY SODIUM SULFITE OR THIAZOLIDINE TREATMENT N64-13506 04-16

X-RAY CRYSTAL ANALYSIS - SUBSTITUTED HETEROCYCLIC THIAZOLINE
AD-600436 N64-26538 18-07

THICK WALL
EQUATIONS FOR REVERSE YIELDED THICK WALL TUBE WITH PLASTIC FLOW DUE TO INTERNAL PRESSURE
NOLTR-63-123 N64-12306 03-33

COMPUTER PROGRAM IN FORTRAN-2 LANGUAGE FOR STRESS ANALYSIS OF THICK SHELL OF REVOLUTION WITH AXISYMMETRIC PRESSURES, TEMPERATURES, AND LOADS
WAPD-TM-398 N64-14539 06-33

STATIC AND DYNAMIC CONSIDERATIONS FOR THICK-WALLED EXTRUSION DEVICES
RAC-2288 N64-25083 17-09

RESIDUAL STRESSES IN THICK-WALLED CYLINDERS RESULTING FROM MECHANICALLY INDUCED OVERSTRAIN
WVT-RI-6319 N64-31227 22-33

STRESS DISTRIBUTION IN THICK WALLED CYLINDRICAL SHELLS - THREE DIMENSIONAL PHOTOELASTICITY
AFWL-TDR-64-65 N64-32143 23-33

TRANSIENT CREEP IN THICK WALL SPHERICAL SHELLS N64-33710 24-33

THICKNESS
S FILM THICKNESS
S OPTICAL THICKNESS
S TARGET THICKNESS

THIN BODY
GENERAL APPROXIMATE NUMERICAL METHOD FOR STRESS ANALYSIS OF THIN SHELLS
GD/A-63-0761 N64-10076 01-23

HEAT CAPACITIES OF THIN FILMS & RODS AT LOW TEMPERATURES
FTD-TT-63-517/1&2 N64-11191 02-13

MATHEMATICAL DESCRIPTION OF GAS FLOW AROUND THIN BODIES WITHOUT IONIZATION OR DISSOCIATION AT HYPERSONIC VELOCITIES
FTD-TT-63-899/1&2 N64-12850 04-02

EXTRUDING AND DRAWING MOLYBDENUM TO COMPLEX THIN H-SECTION
RTD-TR-8-112/2/ N64-16079 07-17

AERODYNAMIC CHARACTERISTICS OF THIN CURVED BODIES AND CURVED SURFACE WINGS N64-23067 16-03

RIEMANN SOLUTION TO PROBLEM OF FLOW AROUND THIN BODIES
FTD-MT-63-288 N64-32599 23-11

THIN FILM
SEMICONDUCTOR THIN FILMS - ANNEALING GALLIUM ARSENIDE
AD-423328 N64-11028 02-25

DOCUMENTATION AND QUANTITATIVE ANALYSIS OF THIN-

LAYER CHROMATOGRAMS
RSIC-53 N64-12206 03-20

CADMIUM SULFIDE THIN FILMS, PROPERTIES OF CADMIUM SULFIDE PHOTOVOLTAIC CELLS, AND MODEL OF IDEAL PHOTOVOLTAIC CELL
NASA-CR-55090 N64-12403 03-06

CONDUCTION MECHANISMS IN VERY THIN INSULATING FILMS - TUNNEL ELECTRON PRODUCTION
AD-424628 N64-13031 04-09

PROPERTIES OF THIN CADMIUM SULFIDE EVAPORATED FILMS FOR PHOTOVOLTAIC CELLS, AND FILM PREPARATION
NASA-CR-55212 N64-13185 04-25

SCATTERING OF LIGHT FROM THIN POLYMER FILMS - BIAXIALLY ORIENTED POLYETHYLENE
ONR-TR-59 N64-13306 04-23

FAILURE MECHANISMS OF THIN FILM PLATES DUE TO TEMPERATURE, HUMIDITY, AND ELECTRICAL STRESSES
RADC-TDR-63-474 N64-13785 05-25

INTRINSIC PHOTOCONDUCTIVITY IN THIN FILMS OF ALKALI HALIDES
ARDD-204-8 N64-14167 05-19

SCATTERING OF LIGHT FROM THIN ORIENTED POLYMER FILMS
ONR-TR-RLT-57 N64-14474 06-19

MINIATURE THIN-FILM INDUCTORS USING FLAT CONDUCTING SPIRALS DEPOSITED ON FERRITE SUBSTRATE
IR-2 N64-14772 06-09

THIN-FILM, LARGE AREA, PHOTOVOLTAIC SOLAR ENERGY CONVERTERS
NASA-CR-55298 N64-14849 06-06

SPECULAR REFLECTANCE ON SINGLE CRYSTALS AND ABSORPTION ON THIN FILMS OF RUTILE
N64-15012 07-23

PROPERTIES AND APPLICATIONS OF INTERMETALLIC THIN FILMS OF INDIUM ANTIMONIDE IN HALL EFFECT DEVICES
N64-15115 07-25

LOW NOISE AMPLIFICATION AT MICROWAVE FREQUENCIES UTILIZING TUNNELING THROUGH THIN FILMS
RADC-TDR-63-321 N64-15126 07-09

THIN ORGANIC ROLLED FILM CAPACITOR
AD-429916 N64-15705 07-09

PRODUCTION OF THIN FILMS OF CADMIUM SULFIDE, AND IDENTIFICATION & CONTROL OF PROCESSING PARAMETERS TO IMPROVE PHOTOVOLTAIC CONVERSION EFFICIENCY
NASA-CR-55737 N64-15861 07-06

PRODUCTION AND TESTING OF STANDARDIZED THIN FILMS OF CADMIUM SULFIDE, AND EVALUATION OF FILMS FOR PHOTOVOLTAIC CELL USE
NASA-CR-55740 N64-15866 07-06

DEPOSITION OF THIN FILMS OF CADMIUM SULFIDE FOR STUDY AS POSSIBLE PHOTOVOLTAIC CELLS
NASA-CR-55959 N64-15867 07-06

OPTIMIZATION OF THIN FILM GALLIUM ARSENIDE JUNCTIONS OF PHOTOVOLTAIC BARRIERS IN SOLAR ENERGY CONVERTERS
NASA-CR-55741 N64-15877 07-06

ELECTROLYTIC PRODUCTION OF HIGH DIELECTRIC THIN FILMS
NASA-CR-55495 N64-15897 07-23

THIN-FILM LOG INTERMEDIATE FREQUENCY AMPLIFIER
N64-16159 08-09

TRANSMISSION OF POLARIZED LIGHT THROUGH ORIENTED, ANISOTROPIC, THIN POLYMER FILM
ONR-TR-67 N64-16476 08-23

IMPROVING CHARACTERISTICS OF CHEMICALLY SPRAYED THIN FILM PHOTOVOLTAIC CONVERTERS - SOLAR CELLS
ASD-TDR-63-223, PT. 2 N64-16500 08-06

THIN FILM VACUUM DEPOSITED JUNCTION CONDUCTORS, SEMICONDUCTORS, AND INSULATORS
NASA-CR-53102 N64-16739 08-25

MATERIAL SCIENCE RESEARCH ON LATTICE DYNAMICS, NUCLEAR MAGNETIC RELAXATION, AND THIN FILM MAGNETORESISTANCE
AD-432134 N64-16842 08-23

ELECTRON DIFFRACTION STUDY OF PHASE CHANGES IN THIN METAL AND OXIDE FILMS N64-17064 09-25

THIN FILMS FORMED BY ELECTROCHEMICAL REACTIONS
AD-425358 N64-17306 09-09

THIN FILM FLEXIBLE CADMIUM SULFIDE SOLAR CELLS
AD-432192 N64-17476 09-25

PHOTOVOLTAIC EFFECTS IN ORGANIC AND INORGANIC CRYSTALS AND THIN FILMS
AFCRL-63-432 N64-17511 09-25

CADMIUM SULFIDE LARGE AREA THIN FILM PHOTOVOLTAIC SOLAR ENERGY CONVERTER
NASA-CR-55738 N64-17681 09-06

CONVECTIVE AND RADIATIVE HEAT TRANSFER MEASUREMENT WITH THIN FILM RESISTANCE
NASA-CR-27 N64-17771 09-13

HIGH TEMPERATURE, THIN FILM RESISTANCE THERMOMETER FOR HEAT TRANSFER MEASUREMENTS
NASA-CR-26 N64-17988 10-15

VOIDS IN AGED, SINGLE CRYSTAL, THIN PERMALLOY FILMS GROWN EPITAXIALLY ON SODIUM CHLORIDE
AFCRL-64-42 N64-18060 10-25

NONLINEAR ANALOG NETWORK FOR CONVERTING SURFACE TEMPERATURE TO HEAT FLUX - USE WITH THIN FILM RESISTANCE THERMOMETERS
CAL-130 N64-18176 10-15

AMBIENT AND TEMPERATURE STUDIES ON CADMIUM SULPHIDE THIN FILM DEVICES AND D-C STABILIZED WIDEBAND AMPLIFIER
AD-419917 N64-18222 10-09

OXIDE THIN FILM LAYER EFFECT ON SHEAR STRENGTH OF METAL CRYSTALS
BMPR-2 N64-18464 10-29

RADIOASSAY OF THIN LAYER CHROMATOGRAPHIC PRINTS FOR ZONAL SCRAPER
ORINS-44 N64-18501 10-07

RELIABILITY OF SEMICONDUCTOR THIN FILMS & DEVICES
RADC-TDR-64-35 N64-18592 11-25

MINIATURE THIN FILM INDUCTORS - FABRICATION TECHNIQUES
REPT.-4003-3 N64-18609 11-09

SINKAGE OF FLAT PLATES IN THIN FILMS OF VISCOUS FLUIDS OVER SMOOTH AND ROUGH SURFACES - MODEL OF RUBBER TIRE ROLLING ON WET PAVEMENT
N64-19050 11-23

LINEAR & NONLINEAR CIRCUIT APPLICATIONS OF THIN FILM TRANSISTORS
DL63-26 N64-19068 11-09

COMPATIBLE INTEGRATED CIRCUITS AND THIN FILM TECHNIQUES - APPLICATIONS TO ELECTRONIC AMPLIFIERS AND DIGITAL COMMUNICATIONS SYSTEMS
QR-10 N64-19119 11-09

PERFORMANCE OF THIN FILM IMAGE CONVERTERS
AD-435788 N64-19122 11-25

LOW DENSITY POLYURETHANE FOAM WITH MYLAR AND ALUMINUM FOIL THIN-FILM SEAL AS INSULATION SYSTEM FOR LIQUID HYDROGEN TANKS OF ROCKET VEHICLES
N64-19371 12-13

INFRARED REFLECTION BY THIN FILMS OF DIELECTRICS DEPOSITED BY EVAPORATION COATING
AD-429240 N64-19874 12-23

SUPERCONDUCTIVE EFFECTS IN THIN FILMS
C-64380 N64-20400 13-25

METHOD FOR MEASURING REFRACTIVE INDEX OF THIN ABSORBING LAYER ON ABSORBING BASE
AFCRL-63-918 N64-20449 13-23

THIN FILM LARGE AREA PHOTOVOLTAIC SOLAR ENERGY CONVERTER
NASA-CR-54065 N64-20741 13-06

DEPOSITION OF EPITAXIAL THIN FILM ON SINGLE CRYSTAL METALS
AD-600149 N64-20903 14-25

DIFFUSION FAILURE MODES IN STRESSED TANTALUM AND TANTALUM OXIDE THIN FILM CAPACITORS
N64-20973 14-25

GENERATED VOLTAGE FAILURE MODE IN CAPACITORS OF THIN FILM SANDWICH CONSTRUCTION
N64-20978 14-25

THIN ORGANIC ROLLED FILM CAPACITOR
AD-600317 N64-21296 14-09

THIN FILM PASSIVE CIRCUITS
GD/A-63-1311 N64-21611 15-09

ULTRAHIGH VACUUM SPUTTERED THIN FILMS
AFCRL-64-360 N64-21725 15-25

EPITAXIAL GROWTH OF THIN FILMS DEPOSITED BY CATHODIC SPUTTERING & VACUUM EVAPORATION
RTD-TDR-63-4264 N64-21832 15-25

THICKNESS MONITORING DEVICE FOR THIN FILMS OBTAINED BY VACUUM SPRAYING
FTD-TT-62-1863/1&2&4 N64-21967 15-15

REPETITIVE PULSED PLASMA ACCELERATOR WITH THIN METAL FILM AS PLASMA SOURCE N64-22054 15-24

DIELECTRIC THIN FILM SILICON MONOXIDE CAPACITORS WITH INCREASED BREAKDOWN STRENGTH
AD-600316 N64-22505 15-19

PERFORMANCE CHARACTERISTICS OF THIN FILM FUEL CELL ELECTRODES
QR-3 N64-22521 15-06

DEPOSITION OF SEMICONDUCTOR THIN FILMS FOR ACTIVE ELEMENTS IN MICROELECTRONIC DEVICES
Q445-7 N64-22530 15-25

SOLID ELECTROLYTE TANTALUM CAPACITORS AND HEAT TREATMENT EFFECTS ON THIN OXIDE FILMS
QR-1 N64-24076 16-09

CADMIUM TELLURIDE THIN FILM SOLAR CELL
QPR-7 N64-24391 17-06

CADMIUM SULFIDE THIN FILM PHOTOVOLTAIC CELLS
NASA-CR-54108 N64-24845 17-06

VAPORIZED TEFLON CAPACITORS - METALLIZED MYLAR COATED WITH THIN FILM TEFLON DIELECTRIC BY GLOW DISCHARGE
QR-5 N64-24979 17-09

CADMIUM TELLURIDE AND GALLIUM ARSENIDE THIN FILM PHOTOVOLTAIC CELLS
QPR-6 N64-24991 17-25

GROWTH, VACUUM DEPOSITION, AND PROTECTIVE COATING OF CADMIUM TELLURIDE THIN FILM SOLAR CELLS
REPT.-6 N64-25211 17-06

OPTICAL PROPERTIES OF THIN FILMS OF METALS, SEMICONDUCTORS, AND DIELECTRICS
SAR-8 N64-25320 17-25

DEPOSITION OF THIN DIELECTRIC FILMS ON METALLIC SURFACES BY ULTRAVIOLET PHOTOLYSIS OF ORGANIC MONOMER VAPORS
RC-900 N64-25600 17-09

FORMATION OF THIN ANODIC FILMS OF SILVER OXIDE
TR-1 N64-25631 17-09

FORMATION OF THIN DIELECTRIC FILM BY ULTRAVIOLET PHOTOLYSIS
RC-946 N64-25664 17-09

ELECTRON GUN FOR VAPORIZING MATERIAL AT HIGH MELTING POINT - PRODUCTION OF VANADIUM AND NIOBIUM THIN FILMS
LNF-64/9 N64-25669 17-15

COLLECTION OF HOT ELECTRONS AT INTERNAL POTENTIAL BARRIER - THIN FILM ACTIVE DEVICE
AD46-F N64-25751 17-23

THIN FILM COMPOUNDS FORMED FROM SIMULTANEOUSLY EVAPORATED CONSTITUENTS - LEAD TITANATE
TR-64-206.3 N64-25781 17-19

SURFACE AND ATOMIC PHYSICS, COMPUTER DESIGNS, PLASMA PHYSICS, SYSTEM DESIGNS, MAGNETIC SUPERCONDUCTORS, VOLTAGE BREAKDOWN, AND THIN FILMS RESEARCH
AD-438840 N64-25885 18-01

MANUFACTURE OF CADMIUM SULFIDE THIN FILM SOLAR CELLS
NASA-CR-54107 N64-25959 18-17

INDIUM ANTIMONIDE THIN FILM PREPARATION FOR SEMICONDUCTOR DEVICES
AFCRL-64-278 N64-25976 18-25

PHOTOCONDUCTIVITY IN THIN FILMS
AD-440163 N64-26273 18-25

ELECTRON TUNNELING BETWEEN SUPERCONDUCTORS THROUGH THIN FILM DIELECTRIC STRUCTURES
AL-TDR-64-46 N64-26292 18-25

DETECTION OF THIN FILM RADIATION EXPOSURE USING MARINER II SPACE PROBE
NASA-CR-58122 N64-26600 18-19

MANUFACTURING AND CURRENT-VOLTAGE MEASUREMENTS OF THIN-FILM ELECTROLUMINESCENT CELLS
SMIR-63-3 N64-27235 19-25

THIN FILM INTEGRATED CIRCUIT STAIRCASE GENERATORS
NASA-CR-56795 N64-27270 19-09

MINIATURE THIN-FILM INDUCTOR FABRICATION
WF4003 N64-27733 19-09

PREPARATION AND SPECTRAL RESPONSE OF THIN FILM CADMIUM SULFIDE SOLAR CELLS
AD-601459 N64-27929 20-06

RADIANT ENERGY CONVERSION USING THIN DIELECTRIC FILMS
AIAA PAPER-64-729 N64-28408 20-06

TUNNEL CATHODES FOR MICROWAVE TUBES - ELECTRON EMISSION INTO VACUUM FROM METAL-INSULATOR-METAL THIN FILM SANDWICHES
ASD-TDR-63-672 N64-28772 20-09

BRIDGING MATERIALS AND TECHNIQUES FOR RELIABLE INTERCONNECTIONS OF THIN FILM MICROCIRCUITS AND SILICON INTEGRATED CIRCUITS
REPT.-1 N64-28961 20-09

ELECTROLYTIC PREPARATION OF HIGH DIELECTRIC THIN FILMS FOR CAPACITIVE ELEMENTS IN INTEGRATED CIRCUITRY
NASA-CR-58503 N64-29186 21-07

THIN FILM SENSORS FOR DETECTION OF WATER IN LIQUID NITROGEN TETROXIDE
RTD-TDR-63-1079 N64-29311 21-15

THIN FILM DEPOSITION TECHNIQUES FOR STUDY OF GOLD-CADMIUM SULFIDE-GOLD STRUCTURES AS CAPACITOR CATHODES IN MICROWAVE TUBES
IR-3 N64-29328 21-25

THIN FERROMAGNETIC FILM FOR LOGIC CIRCUITS - FLUX TRANSFER - MEASUREMENT OF FILM THICKNESS AND PROPERTIES
NASA-CR-58559 N64-29358 21-09

PURIFICATION OF VACUUM EVAPORATED THIN FILMS OF METALS AND SEMICONDUCTORS BY SIMULTANEOUS ELECTROMAGNETIC LEVITATION AND INDUCTION HEATING
SAR-9 N64-29398 21-23

FABRICATION OF THIN FILM CADMIUM SULFIDE PHOTOVOLTAIC CELLS BY CHEMICAL SPRAY DEPOSITION
QR-1 N64-29579 21-06

EVAPORATIVE DEPOSITION OF LARGE AREA THIN FILMS FOR PHOTOVOLTAIC CONVERSION OF SOLAR ENERGY
NASA-CR-54145 N64-29708 21-06

MICROELECTRONIC SYSTEMS - TRAINABLE SELF-ADAPTIVE SYSTEMS, DEVICES, SEMICONDUCTOR FABRICATION, AND HOT ELECTRONS IN METAL FILMS
SU-SEL-64-037 N64-29748 21-09

POLYCARBONATE LACQUER FILM CAPACITORS
QPR-21 N64-29948 21-17

RELIABILITY OF THIN FILM SEMICONDUCTOR DEVICES
RADC-TDR-64-197 N64-29967 21-25

THIN FILM COLD CATHODES FOR MICROWAVE TUBES
IR-2 N64-29978 21-09

EVALUATION OF SILICON INTEGRATED CIRCUITS, THIN FILM DEVICES, AND HYBRID DEVICES FOR DIGITAL COMPUTER DESIGN
EF-3765-6 N64-30196 21-25

DIELECTRICS, MICROELECTRONICS, AND THIN FILMS OF CADMIUM SELENIDE AND ZINC TELLURIDE
QR-1 N64-30205 21-25

HIGH POWER GASEOUS ELECTRONICS - THIN METALLIC FILMS TO CONTROL GAS CLEAN-UP
REPT.-6 N64-30574 22-09

MULTIPLE BEAM INTERFEROMETER MEASUREMENT OF EVAPORATED THIN FILM THICKNESS
TR-2433 N64-30577 22-15

PHOTOVOLTAGES IN SILICON AND SILICON CARBIDE FILMS AND ORIGIN FROM TRAP-INDUCED SPACE CHARGE
NASA-RP-315 N64-30608 22-25

THIN FILM TRANSMISSION ELECTRON MICROSCOPY APPLIED TO REFRACTORY METAL PROCESSING
R-5776-1 N64-30813 22-18

SEMICONDUCTOR SUBSTRATE AND ACTIVE DEVICE FOR SILICON THIN FILM INTEGRATED CIRCUIT
ISR-1 N64-30898 22-25

BRIDGE CIRCUIT FOR CAPACITY MEASUREMENT OF EVAPORATED AND SPUTTERED THIN FILM DIODES
GE/EE/63-23 N64-31138 22-09

HALL EFFECT IN INDIUM ANTIMONIDE THIN FILMS VAPOR-DEPOSITED ON ALUMINUM OR TANTALUM SUBSTRATES
NAVWEPS-8167 N64-31166 22-25

MECHANISM OF CONDUCTION IN VERY THIN FILMS OF INSULATING MATERIAL
IER-3 N64-31229 22-25

EVALUATION OF DIELECTRIC FILMS, THIN FILM FIELD EFFECT TRANSISTORS, AND TUNGSTEN RESISTORS PRODUCED BY CATHODOLYSIS
AFSC-TR-7-857 /V/ N64-31230 22-25

THIN FILM CADMIUM TELLURIDE POLYCRYSTALLINE SOLAR CELLS
QTPR-4 N64-31252 22-06

ULTRAHIGH VACUUM DEPOSITION OF HIGH PURITY THIN EPITAXIAL FILM
BMPR-4 N64-32097 23-17

SEMICONDUCTOR THIN FILMS AND INTEGRATED CIRCUITS
AD-449605 N64-32658 23-09

THIN FILM SOLAR CELLS AND SOLAR CELL TESTING - PHOTOVOLTAIC CELLS, RADIATION DAMAGE TO CADMIUM SULFIDE SOLAR CELLS, AND AIRPLANE TESTING OF SOLAR CELLS
NASA-CR-59014 N64-32726 24-06

PHOTOVOLTAIC PROPERTIES OF VAPOR DEPOSITED POLYCRYSTALLINE GALLIUM ARSENIDE THIN FILMS
N64-32728 24-06

BACKWALL, THIN FILM, CADMIUM SULFIDE SOLAR CELL ON PLASTIC FILM SUBSTRATE N64-32730 24-06

CHEMICALLY SPRAYED THIN FILM PHOTOVOLTAIC CONVERTERS - SOLAR CELL N64-32731 24-06

COMPUTER-INDEPENDENT ABSTRACT MACHINE-LANGUAGE ENCODER AND OPERATING SYSTEM OF UNIVAC 1107 THIN-FILM COMPUTER
NASA-TM-X-55096 N64-33622 24-20

GEIGER COUNTER AND X-RAY FILM TECHNIQUES TO STUDY CRYSTALLINE STRUCTURES OF THIN TITANIUM FILMS AND COATINGS FORMED BY VACUUM DEPOSITION
REPT.-8251 N64-33792 24-17

THIN FILM CADMIUM SULFIDE PHOTOVOLTAIC CELLS
NASA-CR-54173 N64-34004 24-25

THIN PLATE
APPROXIMATIONS DETERMINATION OF BENDING MOMENTS, STRESSES AND STRAINS IN THIN RECTANGULAR PLATE
DVL-262 N64-10974 02-33

THIN PLATE PERFORATION STUDIES WITH HYPERVELOCITY PROJECTILES N64-13549 05-23

THIN PLATE PERFORATION AND PROTECTION - HYPERVELOCITY IMPACT N64-13551 05-23

ELASTIC STABILITY OF THIN RECTANGULAR PLATES REINFORCED WITH HORIZONTAL AND VERTICAL STIFFENERS AND STRESSED IN COMPOUND BENDING AND SHEAR
RSIC-86 N64-14360 06-33

DYNAMICS OF DISPLACEMENT-FORCED THIN PLATES
BSD-TDR-63-110 N64-16826 08-23

BENDING OF ELLIPTICAL THIN PLATES UNDER CONCENTRATED MOMENT AT CENTER
NRC-444 N64-17626 09-33

ANALYSIS OF IMPACT ON QUASI-INFINITE, FINITE, THIN PLATE, AND SHIELDED TARGETS
ASRL-99-2 N64-19126 11-23

SUPERSONIC GAS FLOW OVER THIN PLATE WITH DETACHED SHOCK WAVE N64-28471 20-11

OPTICAL MEASUREMENT OF MOMENTS IN THIN BENT PLATES
RSIC-237 N64-28532 20-33

THIN PLATE BATTERY BASED ON LIQUID-ACTIVATED AMMONIA
QR-1 N64-29350 21-06

BESSEL FUNCTION TABLES APPLIED TO PROBLEMS OF ANNULAR THIN PLATES AND WAVE PROPAGATION
AD-602755 N64-30824 22-20

BALLISTIC RESISTANCE OF THIN PLATES TO PENETRATION OF HIGH SPEED PROJECTILES
MR-1127 N64-31277 22-10

PLASTIC THERMAL STRESSES AND STRAINS IN FINITE THIN PLATE OF STRAIN-HARDENING MATERIAL
NASA-TN-D-2206 N64-32429 23-33

THIN WALL
APPARATUS FOR DETERMINING CREEP AND RECOVERY OF GRAPHITE BY APPLYING TORSIONAL STRESSES TO THIN WALLED TUBES
COA-NOTE-MAT-1 N64-12021 03-19

SQUEEZE CASTING OF THIN WALL PANELS
JPRS-24771 N64-20809 14-17

STRENGTH OF THIN WALL STRUCTURES
FTD-TT-62-1624/1 N64-21654 15-14

APPROXIMATION OF ENERGY REQUIRED FOR FORMING THIN WALLED AXISYMMETRIC BODIES
FTD-TT-64-249/1&2&4 N64-25450 17-21

THIN WALL TUBING TESTS USING ULTRASONIC SHEAR

WAVES - THEORY OF ULTRASONIC WAVE PROPAGATION, EXPERIMENTAL DATA, AND NOTCH FABRICATION
HW-81956 N64-27142 19-17

STRAIN FATIGUE TESTS ON THIN-WALL TUBING RELATED TO SERVICE LIFE OF NUCLEAR REACTOR FUEL ELEMENT
GEAP-4462 N64-29754 21-33

LINEAR THEORY OF THIN ELASTIC SHELLS
AM-64-8 N64-30532 22-33

ULTRASONIC TEST METHOD AND EQUIPMENT FOR THIN WALL TUBING - ZIRCALOY SHEATH TUBING
HW-81957 N64-30801 22-17

FABRICATION OF HIGH PURITY SMALL DIAMETER THIN WALL TUNGSTEN TUBING AND TUNGSTEN ALLOY
ANL-6806 N64-31270 22-17

APPROXIMATE SOLUTION FOR BURSTING STRENGTH OF THIN-WALLED CYLINDERS WITH HEMISPHERICALLY CAPPED ENDS
IITRI-528-20 N64-31595 23-34

THIN WALLED SHELL
THIN SHELL THEORY EVALUATION OF NONLINEAR SHEARS AND MOMENTS AT PRESSURIZED CYLINDRICAL SHELL JUNCTION
GD/A-62-0767 N64-14550 06-33

THEORY OF ELASTIC RESPONSE OF THIN SPHERICAL SHELL TO AXISYMMETRIC BLAST LOADING FROM DETONATION OF ECCENTRICALLY PLACED INTERNAL EXPLOSIVE CHARGES
BRL-MEMO-1520 N64-14674 06-33

BUCKLING LOADS OF LONGITUDINALLY PRESSED THIN-WALLED CIRCULAR CYLINDRICAL SHELLS
DFL-214 N64-15021 07-33

STRESSES IN THIN SHELLS UNDER INTERNAL PRESSURE
SSD-TDR-63-367 N64-17516 09-33

THIN ELASTIC SHELL THEORY - APPLICATION IN DESIGNING ARCH DAMS
TIL/T-5423 N64-18344 10-33

STRUCTURAL DAMPING OF OSCILLATIONS OF THIN WALLED SHELLS FOR HOUSING COMPONENTS OF GAS TURBINE ENGINE
FTD-MT-63-131 N64-18680 11-34

NONLINEAR MODEL OF THERMAL BUCKLING OF ELASTIC, THIN WALLED SHELLS
SUDAER-173 N64-18842 11-33

BREATHING VIBRATIONS OF THIN WALLED SHELLS APPLIED TO SOLID PROPELLANT ROCKETS N64-19155 11-33

SHEARING FORCES IN CYLINDRICAL OR SECTIONALLY VARIABLE THIN CONICAL SHELLS
OVL-274 N64-21528 15-33

ELASTIC PROPERTIES OF THIN SHELLS OF REVOLUTION
NASA-CR-37 N64-23622 16-23

FREE VIBRATIONS OF THIN ELASTIC SHELLS - BIBLIOGRAPHY
NASA-CR-58048 N64-27313 19-33

DEFORMATION OF THIN WALLED CYLINDRICAL SHELLS BY EXTERNAL BLAST LOADING
BRL-MEMO-1560, PT. 2 N64-28155 20-33

CYLINDRICAL FILAMENT WOUND PRESSURE VESSELS REDESIGNED WITH ISOTENSOID DOME ENDS TO REDUCE WEIGHT AND STRESS FAILURE
AD-600215 N64-29614 21-34

INTERIOR STRESS DISTRIBUTION IN EDGE-LOADED, ELASTIC, THIN WALLED SHELLS WITH LOAD WAVELENGTH LESS THAN RADIUS OF CURVATURE
REPT.-6-90-63-84 N64-29680 21-33

MATHEMATICS OF NONLINEAR DYNAMICS OF THIN WALLED SHELL STRUCTURES
NASA-CR-58571 N64-29687 21-20

PRESSURE AND STRAIN TIME HISTORIES OF THIN WALLED SHELLS DURING HIGH EXPLOSIVE BLAST TESTS
PA-TM-1420 N64-32215 23-33

STABILITY BEHAVIOR OF THIN WALLED CIRCULAR CYLINDRICAL SHELLS UNDER AXIAL LOAD AND INTERNAL PRESSURE BY APPLYING NONLINEAR SHELL EQUATIONS
NOR-64-80 N64-33463 24-33

THIN WING
THICKNESS CORRECTION TO SLENDER THIN-WING THEORY TESTED BY APPLICATION TO CONES AND RHOMBIC CROSS SECTIONS
ARC-CP-659 N64-10239 01-03

EMPIRICAL PREDICTION METHOD FOR NONLINEAR NORMAL FORCE ON THIN WINGS AT SUPERSONIC SPEEDS
ARC-CP-662 N64-10401 01-03

THIOCYANATE
REACTIONS OF ALIPHATIC & AROMATIC ISOTHIOCYANATES WITH DIGUANIDES
AD-429064 N64-14818 06-07

NEAR-ULTRAVIOLET, VISIBLE AND INFRARED SPECTROSCOPY OF SODIUM AND POTASSIUM THIOCYANATE N64-14912 06-07

THIOL
THIOL-ACTIVATED AMINOPEPTIDASE OF PITUITARY EXTRACT
NASA-RP-55 N64-10293 01-16

EFFECT OF PROTECTIVE SUBSTANCES ON REACTIVITY CHANGES OF THIOL GROUPS IN LIVER OF X-RAY IRRADIATED MICE
JPRS-22125 N64-11359 02-16

IONIZING RADIATION EFFECT ON THIOPHOSPHATE OXIDIZING ENZYME IN RAT LIVER - BIOCHEMISTRY N64-13503 05-16

SYNTHESIS OF THIOLS AND THEIR ACETYL DERIVATIVES FROM CHLOROESTERS
JPRS-22953 N64-14072 05-07

INHIBITION OF THIOL-ACTIVATED AMINOPEPTIDASE ENZYME BY BACTERIA-PUROMYCIN
NASA-RP-252 N64-26711 18-16

SYNTHESIS OF RADIOPROTECTIVE STEREOSPECIFIC AMINOTHIOLS
AD-601839 N64-29332 21-07

SYNTHESIS OF STEREOSPECIFIC AMINOTHIOLS AS RADIOPROTECTIVE AGENTS
AD-601838 N64-29333 21-07

UNITHIOL EFFECT UPON CASES OF ACUTE URANIUM POISONING N64-30245 22-16

HYDROGEN BONDING IN THIOL & AMINOTHIOL COMPOUNDS
AD-603220 N64-30781 22-07

RADIATION PROTECTION FOR MONKEY WITH L-CYSTEINE AND AMINOETRYLISOTHIURONIUM DIBROMIDE
SAM-TDR-64-40 N64-32031 23-16

THOMAS-FERMI THEORY
NUMERICAL INTEGRATED MODEL OF ATOM DERIVED FROM THOMAS-FERMI DIFFERENTIAL EQUATION
P-2783 N64-25648 17-23

THOMSON EFFECT
CF PELTIER EFFECT
SEEBECK, PELTIER, AND THOMPSON EFFECTS - THERMOELECTRIC THEORY
NRL-5888 N64-20326 13-23

THOMSON SCATTERING OF LASER BEAM FROM LABORATORY HYDROGEN PLASMA
RR-187 N64-32448 23-24

THOR AGENA B LAUNCH VEHICLE
EPHEMERIS CONTAINING SATELLITE OBSERVATIONS OF MIDAS, TRANSIT, AND THOR AGENA B ORBITING VEHICLES N64-30872 22-08

THOR DELTA LAUNCH VEHICLE
THOR DELTA LAUNCH VEHICLE PAYLOAD CAPABILITY FOR POLAR, CIRCULAR, AND ELLIPTICAL ORBITS

NASA-CR-56312 N64-24055 16-30

THOR LAUNCH VEHICLE
PRELAUNCH & FLIGHT VIBRATION MEASUREMENTS ON THOR VEHICLES N64-18540 11-30

THOR LAUNCH VEHICLE SYSTEMS STUDY FOR SPACE EXPLORATION
SM-41860 N64-22008 15-31

EPHEMERIS OF KINETHEODOLITE OBSERVATIONS - THOR AGENA D, MIDAS VI, BLUE SCOUT, AND GEOPHYSICAL RESEARCH SATELLITE N64-33446 24-08

THORAX
MEASURING IMPEDANCE CHANGE IN PEAK-TO-PEAK AMPLITUDE ACROSS THORAX & HEART RATE AS BEAT-TO-BEAT DIRECT CURRENT VOLTAGE
SAM-TDR-63-69 N64-11773 03-16

THORACIC RESPIRATION AND MODE OF INSPIRATION INFLUENCE ON IMPEDANCE PNEUMOGRAPH CALIBRATION
SAM-TDR-63-100 N64-17312 09-16

ABDOMINAL & THORACIC PRESSURES AT DIFFERENT LUNG VOLUMES N64-17927 10-16

IMPEDANCE MEASUREMENT OF CARDIAC OUTPUT - THORACIC CAGE IMPEDANCE MEASUREMENTS
SAM-TDR-64-15 N64-21597 15-16

TISSUE RESISTIVITY IN VIVO AND TRANSTHORACIC IMPEDANCE
SAM-TDR-64-5 N64-21803 15-16

THORIUM
EUDIOMETRIC METHOD USING FLUORIDE-CATALYZED HYDROCHLORIC ACID FOR DETERMINATION OF METALLIC THORIUM IN SLURRIES
AEET/ANAL/20 N64-10124 01-18

DENSITY DETERMINATION OF THORIUM-URANIUM, THORIUM-PLUTONIUM, CAST THORIUM, & MONOBROMOBENZENE IN GLOVEBOXES
ANL-6671 N64-10394 01-07

ELECTROLYTIC AND CALCIUM-THERMAL PROPERTIES OF THORIUM COMPRESSION POWDERS
JPRS-18920 N64-11348 02-18

ABSOLUTE GAMMA-RAY INTENSITIES FROM PHOTOFISSION OF URANIUM AND THORIUM AFTER ELECTRON BOMBARDMENT
RTD-TDR-63-3072 N64-12232 03-23

RADIOCHEMICAL MEASUREMENT OF MASS-YIELD CURVE IN PILE-NEUTRON FISSION OF THORIUM
IS-558 N64-13354 04-23

ANGULAR DISTRIBUTION OF PHOTOFISSION FRAGMENTS OF THORIUM RELATIVE TO PHOTON BEAM
N64-13396 04-23

EXTRACTION OF HAFNIUM, THORIUM, URANIUM, CALCIUM, MAGNESIUM, BARIUM, AND STRONTIUM FROM PERCHLORIC ACID SOLUTIONS
IS-777 N64-15337 07-07

PROTACTINIUM SEPARATION FROM THORIUM BY TRIBUTYL PHOSPHATE SOLVENT OR VYCOR GLASS ADSORPTION
N64-15653 07-07

PREPARING URANIUM 232 BY IRRADIATION OF RADIO-ACTIVE THORIUM ISOTOPES
MLM-1182 N64-16556 08-23

EFFECT OF NITRIC ACID, THORIUM, FLUORIDE, AND ALUMINUM ON PROTACTINIUM ADSORPTION BY UNFIRED VYCOR GLASS
ORNL-3599 N64-19237 11-07

SPECTROPHOTOMETRIC DETERMINATION OF LOW CONCENTRATIONS OF NICKEL IN THORIUM METAL
Y-1484 N64-20441 13-07

SEPARATION AND DETERMINATION OF ZIRCONIUM AND THORIUM BY ORGANIC PRECIPITATION
N64-20925 14-07

THORIUM AND THORIUM-URANIUM COMPOUNDS AS POTENTIAL THERMAL BREEDER FUELS
BMI-1680 N64-28125 20-11

HIGH PURITY THORIUM FROM SODIUM REDUCTION OF THORIUM TETRACHLORIDE
BM-RI-6527 N64-30789 22-07

SOLVENT EXTRACTION RECOVERY OF THORIUM AND YTTRIUM FROM SILICA-CONTAINING COLORADO ORES
BM-RI-6457 N64-31295 22-07

NUCLEAR RESEARCH, INCLUDING WORK ON HIGH TEMPERATURE MATERIALS, ZIRCONIUM METALLURGY, HIGH FLUX ISOTOPE REACTOR, GAS COOLED REACTOR, AND THORIUM UTILIZATION PROGRAM
ORNL-3670 N64-32700 24-23

THORIUM ALLOY
METALLURGY - RARE EARTH, HAFNIUM CARBIDE, THORIUM, URANIUM NITRIDE, & TUNGSTEN-RHENIUM ALLOYS
USBM-U-1082 N64-10253 01-11

DISPERSION STRENGTHENING IN NICKEL BASE THORIUM OXIDE ALLOY
TDR-269/4240-10/-4 N64-13763 05-11

PHASE DIAGRAM AND LATTICE STRUCTURE OF URANIUM - THORIUM ALLOYS
AEC-TR-5834 N64-13908 05-11

TECHNOLOGY OF DEUTERIUM OXIDE MODERATED POWER REACTOR WITH URANIUM-PLUTONIUM OR THORIUM-URANIUM FUEL CELL
DP-864 N64-15771 07-23

RARE EARTH ALLOYS, HAFNIUM CARBIDE, THORIUM ALLOY, MELTING & CASTING METHODS, AND TUNGSTEN-RHENIUM TUBING DEVELOPMENTS
USBM-U-1091 N64-15838 07-11

RARE EARTH ALLOY, HAFNIUM CARBIDE, THORIUM ALLOY, URANIUM-CARBON-OXYGEN SYSTEM, TUNGSTEN-RHENIUM TUBING, & COLD-MOLD MELTING RESEARCH
USBM-U-1109 N64-19030 11-11

ELECTRON MICROSCOPE STUDY OF URANIUM ALLOYS AND ALLOY OF THORIUM FUEL ELEMENT STRUCTURES
MCW-1483 N64-19249 11-11

STRUCTURE & PROPERTIES OF URANIUM, THORIUM, AND ZIRCONIUM ALLOYS
JPRS-24347 N64-19441 12-11

CORROSION RESISTANCE OF THORIUM-ZIRCONIUM-NIOBIUM ALLOYS N64-19446 12-11

FABRICATION OF ZIRCALOY-2 CLAD THORIUM-URANIUM ALLOY FUEL ELEMENTS
HW-79843 N64-22501 15-11

SUPERCONDUCTING NIOBIUM-THORIUM AND NIOBIUM-TITANIUM EUTECTIC ALLOYS
NASA-CR-54103 N64-29709 21-11

THORIUM COMPOUND
PROTACTINIUM STABILITY IN THORIUM NITRATE-NITRIC ACID SOLUTIONS N64-15654 07-07

PEROXIDE PRECIPITATION OF PROTACTINIUM AND URANIUM FROM THORIUM NITRATE-NITRIC ACID SOLUTIONS
N64-15655 07-07

HIGH PURITY THORIUM FROM SODIUM REDUCTION OF THORIUM TETRACHLORIDE
BM-RI-6527 N64-30789 22-07

THERMODYNAMIC PROPERTIES OF HIGH PURITY THORIUM DICARBIDE
UCRL-12003 N64-33851 24-07

THORIUM FLUORIDE
ELECTRICAL CONDUCTIVITY AND DENSITY OF MOLTEN-SALT ELECTROLYTES - URANIUM TETRAFLUORIDE AND THORIUM FLUORIDE WITH ALKALI FLUORIDES
BM-RI-6500 N64-26844 18-11

THORIUM OXIDE
USE OF THORIUM AND URANIUM DIOXIDES AS NUCLEAR FUELS

CRFS-1154 N64-10861 02-23

INFLUENCE OF TITANIUM, ZIRCONIUM, AND THORIUM OXIDES UPON THE RECRYSTALLIZATION OF MOLYBDENUM N64-11016 02-18

COLD SWAGING CAPABILITY AND HARDNESS OF DISPERSION STRENGTHENED, EXTRUDED NICHROME-THORIUM OXIDE ALLOYS
PR-4 N64-14632 06-19

PARABOLIC EQUATION FOR LOGARITHMIC OXIDATION RATE OF NICKEL-THORIUM DIOXIDE ALLOY
HW-79350 N64-15833 07-07

INTERNAL SILICA CONTAMINATION OF URANIUM, THORIUM, AND YTTRIUM OXIDE FUELS N64-17001 09-23

INFRARED SPECTRUM ANALYSIS OF MOLECULES VAPORIZED FROM OXIDES OF ZIRCONIUM, HAFNIUM, AND THORIUM BY MATRIX ISOLATION N64-18804 11-07

DISPERSION STRENGTHENING OF NICKEL-CHROMIUM ALLOYS USING THORIUM OXIDE
AD-432420 N64-19158 11-18

EQUILIBRIA AND KINETICS OF PHOSGENE REACTION WITH THORIUM OXIDE
IS-917 N64-32414 23-07

THORON
EMANATION OF THORON FROM SINTERED URANIUM DIOXIDE POWDER AND PLATE AS FUNCTION OF TEMPERATURE
WAPD-276 N64-10365 01-23

THREE-BODY PROBLEM
PLANAR CASE OF THREE-PARTICLE SCATTERING - ELASTIC & INELASTIC COLLISIONS
NASA-CR-52223 N64-10237 01-23

TRANSFER OF ANGULAR MOMENTUM BETWEEN EJECTED PARTICLES & BINARY SYSTEM - RESTRICTED THREE-BODY PROBLEM
NASA-RP-82 N64-11197 02-05

PERIODIC ORBITS IN RESTRICTED THREE-BODY PROBLEM OF PLANETOID PASSING CLOSE TO TWO GRAVITATING MASSES N64-13593 05-29

ESTIMATING PERTURBATION OF HYPERBOLIC MOTION IN THREE-BODY PROBLEM - CELESTIAL MECHANICS
MH-TRANS-363 N64-14440 06-05

THREE-BODY RECOMBINATION COEFFICIENT OF ATOMIC NITROGEN
AD-428624 N64-14616 06-07

ALMOST-PERIODIC SOLUTIONS AND DIVERGENCE OF LINDSTEDT SERIES IN PLANE RESTRICTED THREE-BODY PROBLEM
MH-TRANS-412, PT. 1 N64-14753 06-23

ALMOST-PERIODIC SOLUTIONS & DIVERGENCE OF LINDSTEDT SERIES IN PLANE-RESTRICTED THREE-BODY PROBLEM
MH-TRANS-412, PT. 2 N64-14834 06-23

CONSTRUCTION OF EXAMPLES FOR MOTIONS IN THREE-BODY PROBLEMS WITH CAPTURE
MH-TRANS-411 N64-14906 06-23

NUMERICAL ANALYSIS OF LIBRATIONAL MOTION OF PARTICLE AROUND LAGRANGIAN TRIANGULAR POINT IN SEMIRESTRICTED THREE-BODY PROBLEM N64-15272 07-20

RESTRICTED PROBLEM OF THREE BODIES
NASA-CR-55539 N64-15548 07-20

THREE-PARTICLE SCATTERING IN SPACE INCLUDING THREE-BODY CASE
NASA-CR-53233 N64-17577 09-23

ANGLE COORDINATES AND ACTION MOMENTS FOR PLANAR RESTRICTED PROBLEM OF THREE BODIES IN NEIGHBORHOOD OF TRIANGULAR EQUILIBRIUM
D1-82-0335 N64-24595 17-23

STABILITY OF FIVE EQUILIBRIUM SOLUTIONS OF PLANE RESTRICTED THREE BODY PROBLEM
R64SD34 N64-25630 17-23

IBM COMPUTER PROGRAM FOR CALCULATING KINEMATICS OF TWO- AND THREE-BODY PROBLEMS
LNF-64/23 N64-25671 17-23

SYMMETRIC DOUBLY ASYMPTOTIC ORBITS IN RESTRICTED THREE-BODY PROBLEM
D1-82-0337 N64-25887 18-29

CALCULATION OF TRAJECTORY OF CAPTURE IN PLANE PROBLEM OF THREE BODIES OF EQUAL MASS N64-28379 20-29

SERIES SOLUTION FOR SOME PERIODIC ORBITS IN RESTRICTED THREE BODY PROBLEM ACCORDING TO PERTURBATION METHOD
NASA-TN-D-2488 N64-29337 21-29

PERIODIC EARTH-MOON ORBITS IN RESTRICTED THREE BODY PROBLEM
NASA-TM-X-53108 N64-29729 21-29

RESTRICTED THREE BODY PROBLEM N64-29770 21-23

EQUATIONS OF MOTION FOR THREE BODY PROBLEM IN HAMILTONIAN FORM
NASA-CR-110 N64-31286 22-23

GENERALIZATION OF RESTRICTED THREE-BODY PROBLEM INCLUDING MOTION OF EARTH AND MOON ON COPLANAR KEPLERIAN ELLIPSES
NASA-TM-X-53088 N64-31725 23-05

TREATMENT AND SOLUTION OF RESTRICTED THREE-BODY PROBLEM AND SECOND-ORDER LINEAR DIFFERENTIAL EQUATION - PERTURBATION THEORY
SUDAER-193 N64-31998 23-23

COORDINATE TRANSFORMATIONS OF PLANE RESTRICTED THREE-BODY PROBLEM - CONFORMAL MAPPING
NASA-CR-59065 N64-32487 23-23

POWER SERIES INTEGRATION APPLIED TO THREE BODY PROBLEM AND ELECTRON MOTION IN MAGNETIC FIELD
NASA-TN-D-2356 N64-32638 23-20

SCHROEDINGER EQUATION ANGULAR MOMENTUM PARTIALS FOR THREE BODY PROBLEM
NASA-TM-X-55102 N64-33636 24-23

THRESHOLD
CORONA THRESHOLD DISCHARGE STUDY OF AIRCRAFT PROPELLER NOISE REDUCTION
SRI-TR-77 N64-11443 03-08

THRESHOLD SIGNAL RECEPTION IN PRESENCE OF NOISE
FTD-TT-62-1389/1&2 N64-12846 04-23

THRESHOLD FOR VISUAL PERCEPTION OF RANDOM FORMS UNDER DEGRADATION AND STEREOSCOPIC CONDITIONS
ESD-TDR-63-136 N64-13656 05-14

NEAR AND FAR FIELD BEAM DIFFRACTION PATTERNS OF RUBY LASER NEAR THRESHOLD N64-13745 05-25

AXIAL VIBRATION MODES IN RUBY LASER OUTPUT OPERATED NEAR THRESHOLD N64-13746 05-25

THRESHOLD RATE OF HYDROKINETIC RATE SENSOR WITH ELECTROSTATIC SUPPORT SYSTEM
GR-1425 N64-13773 05-15

THRESHOLD OF INSTABILITY OF RIGID ROTOR IN SELF-ACTING CYLINDRICAL JOURNAL BEARING
MTI-62TR13 N64-17514 09-17

TWO FUSION THRESHOLDS OF LIGHT STIMULI IN VISUAL ANALYZER OF MAN
JPRS-23946 N64-17806 09-16

LINEAR THRESHOLD FUNCTIONS FOR PATTERN RECOGNITION BY ADAPTIVE MECHANISMS
RADC-TDR-64-32 N64-19053 11-20

FREQUENCY, DISSOLVED GAS, AND PRESSURE DEPENDENCE OF ACOUSTIC CAVITATION THRESHOLDS IN WATER
TM-57 N64-22544 15-11

REALIZATION OF BOOLEAN FUNCTIONS IN THRESHOLD ELEMENTS N64-24691 17-20

SIGNAL DISTORTION - LOGICAL POSSIBILITIES OF ACTUAL NOISE THRESHOLD ELEMENTS N64-24692 17-20

STATISTICAL PROPERTIES OF NOISE PULSES GENERATED BY RANDOM PROCESSES CROSSING FIXED THRESHOLDS
AF-109 N64-25898 18-08

THRESHOLD SELECTION AND PERFORMANCE EVALUATION OF DETECTOR FOR WHITE, BANDLIMITED, STATIONARY, GAUSSIAN SIGNALS IN ADDITIVE, WHITE, BANDLIMITED, STATIONARY, GAUSSIAN NOISE
NASA-CR-58349 N64-28842 20-08

THRESHOLD SENSITIVITY OF GALVANOMETRIC AMPLIFIER N64-29132 21-15

THRESHOLD DETECTOR
AUTOMATED SPIN-WAVE INSTABILITY THRESHOLD MEASUREMENT AND RECORDING
AFCRL-63-505 N64-12287 03-23

THRESHOLD DETECTION TECHNIQUE FOR MEASURING NEUTRON SPECTRA TO 30-MEV
UCRL-10732 N64-13211 04-23

FAST NEUTRON SPECTROMETRY IN PILE BY THRESHOLD DETECTORS
EUR-289.E N64-13234 04-23

THRESHOLD DECODING OF CONVOLUTIONAL CODES UP TO 100 TRANSMITTED BITS
MIT-TR-410 N64-14111 05-20

SERIES EXPANSION METHODS IN THRESHOLD DETECTOR ACTIVATION DATA HANDLING
EUR-588.E N64-21209 14-23

THRESHOLD OF VISUAL DETECTION OF ACCELERATED MOTION
AFOSR-64-0189 N64-21381 14-14

THRESHOLD DETECTOR MEASUREMENT OF FISSION NEUTRON FLUXES AND SPECTRA
AECL-1994 N64-28106 20-23

NEUTRON THRESHOLD DETECTOR SYSTEM AND GAMMA DOSIMETRY TECHNIQUE TO MEASURE RADIATION ENVIRONMENT OF REACTOR
NDL-TR-59 N64-33826 24-23

THRESHOLD LOGIC
GENERAL INVARIABLE LOGIC EXPRESSIONS BY THRESHOLD LOGIC ELEMENTS
MH-TRANS-347 N64-11565 03-20

THRESHOLD LOGIC N64-15817 07-20

MATHEMATICAL MODEL OF TWO-LAYER NETWORK OF THRESHOLD ELEMENTS
RADC-TDR-63-534 N64-18784 11-20

THRESHOLD LOGIC AND RELIABILITY OF ADJUSTABLE SWITCHING NETWORKS
AFCRL-64-66 N64-18914 11-09

LOGIC DESIGN FOR COMPUTERS - TERNARY AND THRESHOLD LOGIC
RTD-TDR-63-4173, VOL. 2 N64-18940 11-20

EFFECT OF COMPONENT DEFECTS ON SELF-ADAPTIVE THRESHOLD LOGIC SYSTEM PERFORMANCE
SEL-63-078 N64-19873 12-20

SYNTHESIS OF THRESHOLD LOGIC DEVICES
TR-400-84 N64-23927 16-15

APPLICATION OF THRESHOLD LOGIC DEVICES TO PATTERN RECOGNITION
RADC-TDR-64-194 N64-25239 17-09

THROAT
HYDROTESTING OF MOTOR CASES AND STATIC TESTING OF NOZZLE THROAT INSERT
REPT.-30-64 N64-33732 24-27

THROTTLING
IMPROVEMENT OF STABILITY OF ALTERNATING CURRENT THROTTLE DRIVES WITH CURRENT & VOLTAGE REGULATORS N64-23085 16-04

AUTOMATICALLY CONTROLLED THROTTLE DRIVE N64-23086 16-09

FLOW STABILITY ON CYLINDRICAL BODY - RADIAL-AXIAL TURBINE AND TURBOJET ENGINE THROTTLING
FTD-TT-62-1644/1&2&4 N64-23470 16-01

THROTTLING CHARACTERISTICS OF SINGLE SHAFT BYPASS TURBOJET ENGINES IN DIFFERENT CONTROL PROGRAMS N64-23473 16-21

VORTEX FLUID THROTTLE PERFORMANCE CHARACTERISTICS N64-23815 16-11

THRUST
SA ROCKET THRUST
MOMENTUM AND ENERGY TRANSFER MECHANISMS, THRUST EFFICIENCY, ANNULAR GEOMETRY, AND CYLINDRICAL FORM IN HALL CURRENT ACCELERATOR
NASA CR-52448 N64-10342 01-23

JET FLAP THRUST RECOVERY VERIFICATION & MECHANISM IDENTIFICATION
SUDAER-144 N64-12115 03-09

OPTIMUM RETRO-THRUST IN GRAVITATIONAL FIELD
AIAA PAPER-64-50 N64-14851 06-29

GAS DYNAMICS - THRUST INCREASE BY JET MIXING
TIL/T-5349 N64-15556 07-27

RELATION OF FUEL PROPERTIES TO THRUST OF AIR-BREATHING RAMJET ENGINES
TIL/T-5460 N64-16262 08-24

CONTROLLABLE THRUST DEVICES FOR ESCAPING FROM MANNED SPACECRAFT
FA-R-1672 N64-18365 10-27

CONTROL OF REACTION-THRUST MISSILES
FTD-TT-62-908/1&2 N64-23390 16-30

VALVE DESIGN, BEARING DRAG, SEAL, AND THRUST STUDIES FOR HIGH CHAMBER PRESSURE ENGINES
NASA-CR-56306 N64-23943 16-27

CONTROL DYNAMICS OF TURBOPROP ENGINE WITH NEGATIVE THRUST LIMITER N64-25437 17-27

GUIDANCE ERROR FROM THRUST DECAY IN POWERED VERTICAL FLIGHT OF ROCKETS
ADN-06-06-63.2 N64-25916 18-22

THRUST VARIATION ANALYSIS OF TITAN II TRANSLATION ROCKET MOTOR
CR-64-113 N64-25989 18-27

COMPRESSIBLE FLOW FUNCTIONS AT MACH NUMBERS FROM 0 TO 20 - SPECIFIC HEAT RATIOS AND UNSTEADY FLOW AND IDEAL THRUST FUNCTIONS N64-26637 18-13

THRUST DIRECTIONAL CONTROL OF CLUSTERED NOZZLES
RN-62-24 N64-27214 19-27

THRUST REQUIREMENTS VTOL SUPERSONIC MILITARY AND TRANSPORT JET AIRCRAFT
DFL-233 N64-27227 19-04

TRAJECTORIES RESULTING FROM APPLICATION OF THRUST TO OBJECT IN INVERSE SQUARE CENTRAL FORCE FIELD - ADAPTIVE GUIDANCE
NASA-CR-58205 N64-27281 19-27

WIND TUNNEL MEASUREMENTS ON LIFTING ROTOR AT HIGH THRUST COEFFICIENTS AND HIGH TIP-SPEED RATIOS
NASA-TN-D-2462 N64-28337 20-04

ELECTRICAL AND CHEMICAL THRUST DEVICES FOR APPLICATION TO ATMOSPHERIC DRAG CANCELLATION ON SPACE STATION CONFIGURATION
NASA-TN-D-1835 N64-30093 21-27

GUIDANCE SYSTEM EQUATION FOR NEAR OPTIMUM PITCH STEERING IN FIRST AND SECOND STAGE THRUST PROPULSION BOOSTER
TOR-269/4540-70/-3 N64-30653 22-22

SOLUTIONS OF EXACT AND APPROXIMATE DYNAMIC EQUATIONS IN LOW THRUST SPACE FLIGHT MECHANICS
NASA-TT-F-9033 N64-31340 22-27

CONTROL METHODS OF HIGH FREQUENCY COMBUSTION OSCILLATIONS IN HIGH THRUST LIQUID PROPELLANT ROCKET ENGINES
AD-449764 N64-32647 23-26

THRUST AUGMENTATION
COMPUTER PROGRAM FOR THRUST AUGMENTATION BY ADDING AIR TO FUEL-RICH ROCKET EXHAUST
NASA-CR-56842 N64-27288 19-27

THRUST CHAMBER
PARTIALLY COOLED THRUST CHAMBER FOR VARIABLE THRUST OPERATION
PA-TR-3119 N64-13246 04-17

UNCOOLED THRUST CHAMBER MATERIALS FOR USE IN STORABLE LIQUID PROPELLANT ROCKET ENGINE
NASA-CR-53367 N64-17820 09-27

PLASMA ARC SPRAYED FREE STANDING SHAPES FOR RADIATION COOLED THRUST CHAMBER
N64-25409 17-18

PLASMA ARC SPRAYING FOR USE IN RADIATING ROCKET THRUST CHAMBER N64-25421 17-17

HEAT TRANSFER IN ROCKET THRUST CHAMBER
N64-28590 20-13

COOLING THRUST CHAMBER OF LIQUID PROPELLANT ROCKET ENGINE USING PYROLYTIC GRAPHITE AND HYDROCARBON FILM
NASA-CR-58249 N64-29196 21-27

EFFECTS OF HIGH CHAMBER PRESSURE, INJECTOR TYPE & SIZE, & THRUST CHAMBER LENGTH ON COMBUSTION STABILITY OF LIQUID PROPELLANT ROCKET ENGINES
NASA-CR-56672 N64-29706 21-27

INJECTOR CONFIGURATIONS AND ABLATIVE THRUST CHAMBER MATERIALS FOR USE WITH OXYGEN DIFLUORIDE-DIBORANE PROPELLANT COMBINATIONS
NASA-CR-58800 N64-30525 22-26

FILM COOLING, NOZZLE EXPANSION, COMBUSTION INSTABILITY, AND ABLATIVE COOLING IN ROCKET THRUST CHAMBERS
REPT.-212/SA3-2.2-M-3 N64-32173 23-17

THRUST MEASUREMENT
THRUST MEASUREMENT FOR ELECTRODELESS MAGNETO-HYDRODYNAMIC ACCELERATORS N64-13497 05-27

THRUST MEASUREMENTS OF COLLOIDAL PARTICLES AS INDICATION OF PARTICLE SIZE & THRUSTOR OPERATION
AIAA PAPER-63-050 N64-20712 13-27

ION-ENGINE DESIGN PROBLEMS OF HIGH CONTACT PRESSURE, THRUST MEASUREMENT, AND CYLINDRICAL BODY DESIGN
NASA-RP-200 N64-24529 17-27

APPROXIMATE ANALYTICAL SOLUTIONS FOR LOW THRUST PROPULSION PROBLEMS
VKI-TN-16 N64-27514 19-27

COMPARATIVE THRUST MEASUREMENTS ON JET-FLAP CONFIGURATIONS AND CIRCULAR NOZZLES
ARC-CP-616 N64-28032 20-03

TOTAL THRUST MEASURING SYSTEM FOR SOLID PROPELLANT ROCKET ENGINE
R-5638 N64-30987 22-10

THRUST WEIGHT RATIO
THRUST-TO-WEIGHT RATIOS AND SPECIFIC IMPULSES ON TRAJECTORY PARAMETERS FOR INTERPLANETARY MISSIONS
NASA-TM-X-51104 N64-11300 02-27

THRUST-WEIGHT RATIO AND SPECIFIC IMPULSE EFFECT ON TRAJECTORY PARAMETERS & TRAJECTORY REQUIREMENTS FOR INTERPLANETARY MISSIONS
NASA-TN-D-1829 N64-13054 04-27

THRUSTOR
SA CARTRIDGE ACTUATED DEVICE
SA PROPELLANT ACTUATED DEVICE
INGESTION OF GAS OR STONES INTO THRUST REVERSER OF JET TRANSPORT POWERPLANT
AGARD-415 N64-11908 03-27

ANALYTICAL EXAMINATION OF DYNAMIC STABILITY OF SUPERSONIC TRANSPORT AIR INLET AND THRUSTOR
LR-16261-3 N64-14808 06-27

PERFORMANCE OF TWO TYPES OF RESISTANCE-HEATED HYDROGEN THRUSTORS - TUBULAR AND WIRE-COIL HEAT EXCHANGERS
NASA-TN-D-2281 N64-19293 11-27

ELECTROSTATIC THRUSTORS FOR INTERPLANETARY FLIGHT PROPULSION
NASA-TN-D-2172 N64-19477 12-27

THRUST MEASUREMENTS OF COLLOIDAL PARTICLES AS INDICATION OF PARTICLE SIZE & THRUSTOR OPERATION
AIAA PAPER-63-050 N64-20712 13-27

PERFORMANCE CHARACTERISTICS AND POWER REQUIREMENTS OF LARGE MODULES AND ARRAYS OF ELECTROSTATIC THRUSTOR
AIAA PAPER-64-503 N64-22678 15-27

ELECTRIC PROPULSION SYSTEM - ELECTROTHERMAL, ELECTROSTATIC AND ELECTRODYNAMIC THRUSTORS
AIAA PAPER-64-524 N64-24168 16-27

LARGE ARC JET THRUSTOR FOR SPACECRAFT ELECTRIC PROPULSION SYSTEM
FR024-10338 N64-24188 16-27

PERFORMANCE AND POWER REQUIREMENTS FOR ELECTRON BOMBARDMENT ELECTROSTATIC THRUSTOR
NASA-TM-X-52019 N64-25907 18-27

HEAVY MOLECULE PROPELLANTS IN ELECTRON BOMBARDMENT THRUSTOR
NASA-TN-D-2401 N64-26453 18-27

POWER CONVERSION, SWITCHING, AND CONTROL SUBSYSTEM FOR CESIUM CONTACT ION THRUSTOR
APL-TDR-64-52 N64-28005 20-06

DESCRIPTION AND OPERATION OF SPACECRAFT IN SPACE ELECTRIC ROCKET TEST /SERT/ THRUSTOR FLIGHT TEST
NASA-TM-X-52050 N64-28074 20-32

ELECTRODE ARCING EFFECTS ON ION ROCKET THRUSTOR SYSTEM DESIGN
NASA-TM-X-52045 N64-28081 20-27

CATHODE FOR MERCURY ELECTRON-BOMBARDMENT THRUSTORS
AIAA PAPER-64-690 N64-28304 20-27

EXPERIMENTAL ANALYSIS OF EXHAUST BEAM FROM COLLOID THRUSTOR
AIAA PAPER-64-674 N64-28358 20-27

EFFECT OF COMPONENT SUBSYSTEMS ON PERFORMANCE OF ELECTRIC PROPULSION SYSTEMS - POWER CONVERSION, POWER CONDITIONING, AND THRUSTOR SUBSYSTEMS
AIAA PAPER-64-676 N64-28359 20-27

APPLICATION OF MAGNETIC-EXPANSION THRUSTORS TO SATELLITE STATION KEEPING AND ATTITUDE CONTROL
AIAA PAPER-64-677 N64-28360 20-27

CATHODE DURABILITY IN MERCURY ELECTRON BOMBARDMENT ION THRUSTOR
AIAA PAPER-64-683 N64-28361 20-27

DESIGN AND PERFORMANCE OF 50 CENTIMETER DIAMETER MERCURY ELECTRON BOMBARDMENT ION THRUSTOR

AIAA PAPER-64-689 N64-28364 20-27

SIZE EFFECTS ON STEADY STATE CONTROL PROPERTIES OF ELECTRON BOMBARDMENT ION THRUSTOR
NASA-TN-D-2470 N64-28724 20-27

CREATING BEAMS OF HIGH-SPEED IONS BY CONTACT IONIZATION THRUSTORS AND ELECTRON BOMBARDMENT THRUSTORS FOR ELECTRIC PROPULSION OF SPACECRAFT
NASA-RP-290 N64-28946 20-27

PRINCIPLES OF ELECTROSTATIC PROPULSION, TYPES OF THRUSTORS, POWER GENERATION SYSTEMS, AND INSTRUMENTATION
NASA-TM-X-51766 N64-28953 20-27

APPLICATIONS OF ION THRUSTOR - MISSION ANALYSIS
APL-TDR-64-52, VOL. II N64-30473 22-27

RESISTOJET THRUSTOR FOR ELECTROTHERMAL ENGINE
NASA-CR-54104 N64-31011 22-27

MAGNETOHYDRODYNAMIC ARC THRUSTER - JET VELOCITY AND MASS FLOW RATE
AEDC-TDR-64-182 N64-31068 22-24

PRESENT AND FUTURE STATUS OF ELECTROSTATIC THRUSTORS OF ELECTRIC PROPULSION SYSTEMS
NASA-RP-318 N64-31209 22-27

PROPELLANT ACTUATED DEVICES /PAD/ INCLUDING THRUSTERS, CATAPULTS, INITIATORS, AND STRUCTURAL MATERIAL
PAD-93-1 N64-32596 23-27

EFFECT OF ARCING BETWEEN THRUSTOR ELECTRODES ON ION ROCKET SYSTEM DESIGN
AIAA PAPER-64-682 N64-33785 24-27

THUNDERSTORM
ELECTROMAGNETIC INDUCTION THEORY OF THUNDERSTORMS APPLICABLE TO TORNADOS
JPRS-21343 N64-10324 01-21

PHYSICAL NATURE OF CHANGE IN INTENSITY OF RADAR ECHOES WITH HEIGHT IN THUNDERSHOWERS
AD-421984 N64-12283 03-21

THUNDERSTORM ACTIVITY OVER INDIA
N64-16305 08-21

THUNDERSTORM DISTRIBUTION OVER EXTENSIVE AREAS - CLIMATOLOGY
AFCRL-63-910 N64-16823 08-21

RADAR MEASUREMENTS OF THUNDERSTORM ACTIVITY IN STUDYING AIR TRAFFIC CONTROL N64-16894 09-21

AIRCRAFT & RADAR ECHO MEASUREMENT OF THUNDERSTORM TURBULENCE N64-16895 09-21

THUNDERSTORM PATTERN & MOVEMENTS - WEATHER FORECASTING N64-16898 09-21

THUNDERSTORM RADAR ECHOES & SURFACE WIND FIELDS
N64-16899 09-21

CONTROL OF AIRCRAFT IN THUNDERSTORMS
N64-16900 09-21

THUNDERSTORM EXCITATION OF RESONANT CAVITY BETWEEN EARTH AND IONOSPHERE N64-19703 12-12

METEOROLOGICAL STUDY OF ATMOSPHERIC ELECTRICITY, PRECIPITATION, AND THUNDERSTORMS
FTD-TT-63-595/1&2 N64-22651 15-21

VERTICAL MOTION IN THUNDERSTORMS
RAE-TRANS-1058 N64-26663 18-21

THUNDERSTORM TURBULENCE MEASUREMENTS BY AIRCRAFT AND CONCURRENT RADAR ECHO EVALUATIONS
N64-27399 19-21

VECTOR CONTROL OF MILITARY AIRCRAFT THROUGH THUNDERSTORM BY GROUND-BASED RADAR
N64-27400 19-21

LIGHTNING DISCHARGE CAUSED BY STATIONARY ELECTRIC FIELD INSIDE THUNDERSTORM
USAELRDL-TR-2401 N64-28601 20-21

ATMOSPHERICS IN THUNDERSTORM ACTIVITY AND LIGHTNING DISCHARGE DETECTORS
FTD-MT-64-124 N64-31758 23-21

THUNDERSTORM ACTIVITY AND DISTRIBUTION USING UNIDIRECTIONAL DIRECTION FINDER AND THUNDERSTORM RECORDERS N64-31759 23-21

RELATION OF ATMOSPHERICS AND DURATION OF THUNDERSTORMS N64-31762 23-21

STATISTICS OF LIGHTNING DISCHARGES IN THUNDERSTORM ACTIVITY N64-31766 23-21

DISTANCE OF THUNDERSTORM FROM AMPLITUDE OF ATMOSPHERICS N64-31769 23-21

CONVECTIVE STORM MOTION CORRELATION WITH UPPER WINDS FOR CASES OF SMALL CHANGE OF WIND DIRECTION WITH HEIGHT
REPT.-21 N64-32935 24-21

THYMIDINE
LABELLED THYMIDINE AND RADIOAUTOGRAPHY TO ASSESS ADRENAL CELL FORMATION IN ANIMALS AFTER VARIOUS TIMES OF COLD EXPOSURE
AAL-TDR-63-7 N64-13631 05-16

X-RAY AND TRITIUM-LABELED-THYMIDINE STUDIES OF CHROMOSOME DIVISION DELAY AND RATE OF DESOXYRIBONUCLEIC ACID SYNTHESIS
UCRL-10979 N64-14428 06-16

INFLUENCE OF RADIOACTIVE THYMIDINE ON X-RADIATION EFFECTS ON DESOXYRIBONUCLEIC ACID SYNTHESIS
N64-19150 11-16

RADIATION EFFECTS OF CARBON-LABELED AND TRITIUM-LABELED THYMIDINE ON CELL GROWTH
NASA-RP-196 N64-22071 15-16

RENEWAL & LOSS OF INTESTINAL EPITHELIUM CELLS IN TURTLES STUDIED BY LABELLED TRITIATED THYMIDINE & MITOTIC INHIBITING TECHNIQUE WITH COLCHICINE
N64-22077 15-16

AUTORADIOGRAPHIC STUDY OF INCORPORATION OF TRITIATED THYMIDINE INTO DEOXYRIBONUCLEIC ACID MOLECULE
LFEN-NI.11 /ALPHA/ N64-29885 21-16

THYRATRON
CF DISCHARGE TUBE
CF ELECTRON TUBE
SUPER POWER HYDROGEN THYRATRON - LIFE TESTS AND PRODUCTION ENGINEERING
REPT.-6 N64-21524 15-09

PRODUCTION ENGINEERING MEASURE FOR PHASE II SUPER POWER HYDROGEN THYRATRON TUBE
AD-431962 N64-21549 15-09

PHOTOTYPE SUPER POWER DEUTERIUM THYRATRON
EG&G-B-2789 N64-24094 16-09

FABRICATION AND TESTING OF SUPER POWER DEUTERIUM THYRATRON
EG&G-B-2839 N64-27711 19-09

SUPER-POWER HYDROGEN THYRATRON
REPT.-8 N64-28663 20-09

PHASE II SUPER POWER HYDROGEN THYRATRON TUBE WITH AIR COOLED ANODE AND CONTROL GRID
REPT.-5 N64-31200 22-09

DEVELOPMENT OF HIGH CURRENT, HIGH TEMPERATURE, ALKALI METAL VAPOR-FILLED CERAMIC THYRATRONS AND RECTIFIERS
NASA-CR-54181 N64-32690 23-09

THYRATRON SAMPLING AND SPECTRAL ANALYSIS OF BRASS
N64-32849 24-09

CERAMIC-METAL THYRATRON DESIGN STUDIES - THICK GRADIENT GRID DESIGN FOR OIL IMMERSION OPERATION

REPT.-2 N64-33822 24-09

THYROID
THYROIDAL INFLUENCE ON SURVIVAL OF ALTITUDE-EXPOSED ANIMALS, PROTECTIVE EFFECTS OF CORTISOL
SAM-TDR-63-101 N64-15746 07-16

PRODUCTION AND DISTRIBUTION OF RADIOACTIVE IODINE IN MILK AND HUMAN THYROID
UCRL-7716 N64-19097 11-16

BIOELECTRIC ACTIVITY OF VISUAL AND PARIETAL REGIONS OF CEREBRAL CORTEX STUDY BY X-RAY
FTD-TT-63-231 N64-22646 15-16

METABOLISM OF COMPOUNDS OF RADIOACTIVE BROMINE ISOTOPE IN THYROID GLANDS OF RATS
N64-22869 16-16

STABILITY OF THYROID PROTEIN WITH REACTIVE IODINE AS RADIOACTIVE TRACE ELEMENT N64-32011 23-07

PROTEIN-BOUND IODINE IN SERUM OF RATS BREATHING 99 PERCENT OXYGEN - MICROSCOPIC CHANGES IN THYROID
N64-32223 23-16

CHANGE IN FUNCTION OF THYROID GLAND DURING STRESS
JPRS-26911 N64-32748 24-16

THYROXINE
S HORMONE

TIDE
TIDAL DISSIPATION IN MOON - INPERFECT ELASTICITY & THERMAL STRESS
NASA-RP-36 N64-11201 02-05

TILT-WING AIRCRAFT
LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF SEMISPAN V/STOL TILT-WING CONFIGURATION WITH SINGLE ROTATING PROPELLER
NASA-TN-D-2180 N64-14729 06-04

WIND-TUNNEL WALL EFFECT ON TILT-WING AND FAN-IN-WING AIRCRAFT MODELS N64-17014 09-04

LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF LARGE-SCALE SEMISPAN V/STOL TILT-WING CONFIGURATION
NASA-TN-D-2412 N64-28325 20-03

STABILITY & CONTROL OF 4-PROPELLER, TILT-WING V/STOL SCALE MODEL TRANSPORT AIRCRAFT
NASA-TN-D-2443 N64-30096 21-04

AERODYNAMICS OF TILT-WING PROPELLER DRIVEN V/STOL CONFIGURATION
NASA-TN-D-1586 N64-31221 22-03

TIME
SA REACTION TIME
SA REAL TIME
SA RELAXATION TIME
SA TRANSIT TIME
OPTICAL PUMPING OF GASES AND APPLICATIONS TO STUDY OF ENERGY LEVELS, MAGNETIC FIELD, AND TIME MEASUREMENTS N64-11071 02-23

CONNECTION OF GEOMETRIC COORDINATES WITH TIME INCREMENTS IN NAVIGATIONAL THEORY
JPRS-22089 N64-11321 02-22

METHOD OF REGULATING PRECISION OF BALANCE-TYPE TIMEPIECES AND CLOCKS N64-23544 16-15

SYNCHRONIZATION AND TIME MAINTENANCE BETWEEN SYNCOM SATELLITE AND SYNCOM STATIONS
NASA-TM-X-55016 N64-27252 19-08

FEASIBILITY OF LONG TERM STORAGE CAPABILITY OF CRYOGENIC AND EARTH PROPELLANTS
RPL-TDR-64-75 N64-27454 19-26

QUANTUM MEASUREMENT OF TIME, ELECTRONICS, CLIMATOLOGY, HYDROLOGY, AND MIXING EFFECT OF DISPERSION BETWEEN LIQUIDS
JPRS-26128 N64-28433 20-01

DIAGNOSIS OF DYNAMIC MODEL FLUTTER RESPONSE USING TIME CORRELATION TECHNIQUES N64-29260 21-33

TIME SPECTRUM OF LOGARITHMIC-AMPLITUDE FLUCTUATIONS OF ELECTROMAGNETIC WAVE PROPAGATING THROUGH TURBULENT ATMOSPHERE
TR-1241 N64-32445 23-08

RADIOASTRONOMICAL DETERMINATION OF SOLAR RADIO RADIUS BY TIME VARIATIONS OF LUNAR AND SOLAR DISK CONTACTS
NASA-TT-F-8976 N64-33592 24-28

TIME DELAY
DETERMINING STABILIZATION ACTION OF CONTROLLER TO MINIMIZE INTEGRAL QUADRATIC ERROR IN LINEAR CONTROL SYSTEM WITH TIME LAGS
JPRS-19822 N64-10591 01-09

SIMULATION OF TIME DELAYS WITH STANDARD ANALOG COMPUTER ELEMENTS
EUR-240.F N64-11310 02-20

MATHEMATICAL MODEL FOR DELAY-TIME DISTRIBUTION IN SERVING CUSTOMERS FROM SINGLE FACILITY WITH RANDOM VARIABLES
ORC-63-12 N64-14762 06-20

TESTING OF RADAR STATIONS AND CALIBRATION OF SIGNAL TIME DELAY OF CONTINUOUS WAVE SYSTEM
N64-15148 07-08

TRANSISTORIZED RESISTANCE-CAPACITANCE TIME DELAY RELAYS N64-19509 12-09

PROGRAM TO DETERMINE CHARACTERISTIC LIFE PROFILES OF ELECTROMAGNETIC AND THERMAL TIME DELAY RELAYS
N64-19516 12-09

AMPLITUDE TIME-DELAY AND TRANSIENT RESPONSES USING MAXIMALLY-FLAT TIME DELAY TRANSFER FUNCTION
PIBMRI-1204-64 N64-19555 12-09

PHOTOMULTIPLIER AND LIMITS OF RESOLVING TIMES DUE TO SCINTILLATOR CHARACTERISTICS - FAST DELAYED COINCIDENCE TECHNIQUE N64-23615 16-23

WIDEBAND, HIGH GAIN, VARIABLE TIME DELAY ANTENNAS
RADC-TDR-64-218 N64-25240 17-08

TIME DELAY BETWEEN APPLICATION OF CURRENT PULSE AND ONSET OF STIMULATED EMISSION
REPT.-3 N64-25684 17-25

GROUP-TIME DELAY AMPLIFIER
BI-025 N64-26568 18-09

RADIO LOCATION METHOD USING TIME DELAY BETWEEN DIRECT TRANSMISSION AND AROUND-THE-WORLD PROPAGATION PATH AND BEARING FROM RADIO DIRECTION FINDER
RRL-214 N64-31183 22-08

MOTION STABILIZATION OF CONTROLLED MEMBER IN CONTROL SYSTEM WITH TIME DELAY
NASA-TT-F-9122 N64-31566 23-23

TIME DEPENDENCY
SA HELMHOLTZ EQUATION
PHYSICAL MECHANISMS CAUSING RESISTANCE TO CHANGE WITH TIME AND TEMPERATURE - FAILURE THEORY
RADC-TDR-63-449 N64-12212 03-18

TIME-CONCENTRATION EFFECTS OF OXYGEN TOXICITY IN MAN N64-12864 04-16

REACTION RATE OF FORMATION AND DESTRUCTION OF ATMOSPHERIC IONIZATION - SYSTEM OF TIME-DEPENDENT REACTION-RATE EQUATIONS
AFCRL-63-711 N64-13084 04-12

CONDITIONS FOR MUTUAL IMPLICITY OF STABILITY OF TIME-VARYING LINEAR SYSTEM AND EXPONENTIAL STABILITY OF UNFORCED SYSTEM
RM-169 N64-13235 04-20

TIME DEPENDENCE OF BETA DECAY, AVERAGE DISINTEGRATION ENERGY, & POST-BETA DECAY GAMMA EMISSION
LA-2811, ADDENDUM N64-14151 05-23

STEEPEST-ASCENT METHOD FOR OPTIMIZATION OF TIME DEPENDENT FUNCTIONS & TIME INVARIANT QUANTITIES, FOR VEHICLE TRAJECTORY OPTIMIZATION
SSD-TDR-63-362 N64-14959 06-20

TIME DEPENDENT NONLINEAR FORMULATION OF SHOCK PROPAGATION IN AN ORGINALLY ISOTROPIC MEDIUM
NOLTR-63-219 N64-15520 07-23

RESPONSE FUNCTIONS OF LINEAR TIME VARYING SYSTEMS
AD-422263 N64-16820 08-09

INVARIANT IMBEDDING AND TIME DEPENDENT TRANSPORT PROCESSES STUDIED USING LAPLACE TRANSFORM
R-423-ARPA N64-24939 17-20

TRANSIENT TEMPERATURE CALCULATION FOR MULTILAYER SLAB WITH TIME DEPENDENT CONVECTION HEATING
TN-R-97 N64-25551 17-13

TIME DEPENDENCE OF RADIATION BELT LIFETIMES AND SOME APPLICATIONS
NASA-CR-56828 N64-25566 17-28

STABILITY AND PERFORMANCE ANALYSIS OF CERTAIN CLASS OF NONLINEAR TIME-DEPENDENT FEEDBACK CONTROL SYSTEMS
REPT.-2900-348-R N64-25785 17-06

VARIATION OF GEOMAGNETIC FIELD WITH TIME
NASA-TT-F-8443 N64-30078 21-12

TRANSITION FROM DEFLAGRATION TO DETONATION - CRITICAL CONDITION IN TIME-DEPENDENT THERMAL EXPLOSIONS
NOLTR-63-282 N64-30594 22-13

TIME FACTOR
TIME-OF-FLIGHT STUDIES OF ELECTRONS IN VACUUM
ORNL-3484 N64-18055 10-23

TIME AS DIRECTIONAL CONTROL IN SPACE REFERENCE SYSTEM
N64-20618 13-05

BALLOON FLIGHT ANALYSIS FOR TIME VARIATIONS OF FAST NEUTRON FLUX AT HIGH ALTITUDES
NASA-CR-56298 N64-22455 15-12

TIME FUNCTION
COMPUTER RELIABILITY DEPENDENCE ON TIME FUNCTION & INTEGRATED APPARATUS N64-10698 02-06

TIME-DOMAIN SYNTHESIS PROBLEM AND APPLICATION TO ELECTRICAL NETWORK THEORY
AFCRL-64-191 N64-20842 14-20

APPLICATION OF DYNAMIC PROGRAMMING TO LINEAR TIME-VARYING DIFFERENTIAL EQUATIONS
RM-4099-PR N64-26194 18-28

PROGRAM FOR COMPUTING LOOP CURRENTS AS FUNCTION OF TIME IN CIRCUIT CONSISTING OF 14 INDUCTIVELY COUPLED LOOPS
UCRL-7864 N64-26842 18-09

TIME-VARYING LINEAR SYSTEMS - OPTIMIZATION
EE-559 N64-31187 22-08

OUTPUT TIME FUNCTION OF LINEAR-FREQUENCY MODULATION-PULSE COMPRESSION FILTER
TM-03984 N64-31889 23-08

OCCUPATION TIME PROBLEMS IN THEORY OF SINGLE SERVER QUEUE
CU-44-64-NONR-266/59/MS N64-32296 23-20

MEASURING DEVICE FOR AUTOMATION AND MECHANIZATION OF CONTROL, AND TIME INTERVAL-NUMBER FUNCTION GENERATOR
JPRS-27005 N64-33150 24-09

TIME OPTIMAL CONTROL
MINIMUM TIME TRACK DATA IN AIRWAYS DESIGN FOR NEW YORK TO LONDON AIR ROUTE - AIR TRAFFIC CONTROL N64-10261 01-08

ALGORITHM TO COMPUTE TIME-OPTIMAL CONTROL FUNCTIONS FOR ROCKET BOOSTERS
NASA-CR-55350 N64-14154 04-20

TIME-OPTIMUM AUTOMATIC CONTROLLER FOR EXPERIMENTAL BREEDER REACTOR-II, ON-OFF TYPE
ANL-6695 N64-14430 06-23

DIGITAL AND ANALOG SYNTHESIS OF OPTIMUM AND QUASI-OPTIMUM MINIMUM-TIME CONTROLS FOR SYSTEMS WITH REAL, NULL, AND COMPLEX EIGENVALUES
AD-429415 N64-15823 07-20

DESIGN OF TIME OPTIMAL CONTROL AND FEEDBACK CONTROL SYSTEMS FOR SPACE VEHICLE APPLICATIONS
USCEE-103 N64-19867 12-20

LOCI POINTS OF STATE SPACE DETERMINATION IN TIME OPTIMAL CONTROL OF STATIONARY LINEAR SYSTEMS N64-23269 16-06

TIME OPTIMAL CONTROL AND LINEARIZED COMPENSATION IN RELAY SERVOSYSTEMS
REPT.-644 N64-27194 19-09

TIME OPTIMAL CONTROL OF NONLINEAR SAMPLED DATA SYSTEMS
R-210 N64-28055 20-20

ROCKET BOOSTER CONTROL STUDIES - TIME OPTIMAL CONTROL WITH AMPLITUDE AND RATE LIMITED CONTROL VARIABLES
NASA-CR-58577 N64-28957 20-06

NUMERICAL SOLUTION OF FUNCTIONAL EQUATIONS BY LAPLACE TRANSFORM - STOCHASTIC TIME OPTIMAL CONTROL
RM-4119-PR N64-31817 23-20

TIME RESPONSE
OPTIMIZING FOR MINIMUM STEP RESPONSE TIME IN LINEAR SYSTEM WITH LIMITED CONTROL EFFORT
RES. PAPER-45 N64-20314 13-09

TIME RESPONSE OF LIQUID-VAPOR INTERFACE AFTER ENTERING WEIGHTLESSNESS
NASA-TN-D-2458 N64-27759 19-11

FOURIER TRANSFORM AND MATRIX METHOD COMPUTATIONS OF TIME RESPONSE FOR ELASTIC LAYERED MEDIA
AFCRL-64-503 N64-31630 23-12

TIME SCALE
TIME RATE OF TEMPERATURE CHANGE IN GLASS DEWAR SYSTEM - FERROMAGNETIC RESONANCE IN IRON GARNETS
AFCRL-64-17 N64-22565 15-13

MULTIPLE TIME SCALE APPROACH TO DERIVATION OF QUANTUM MECHANICAL KINETIC EQUATIONS
MATT-274 N64-32085 23-23

TIME SERIES
ESTIMATION OF COVARIANCE AND AUTOREGRESSIVE STRUCTURE OF STATIONARY TIME SERIES
AROD-2025-12 N64-16778 08-20

PREDICTION THEORY IN REFERENCE TO DISCRETE TIME SERIES FOR LONG-RANGE OCEAN ACTIVITY, ROLL AND VIBRATION RESPONSE
MAC-307-01 N64-18268 10-12

OBSERVABLE CYCLES IN TIME SEQUENCE OF CIRCULATION INDICES N64-19435 12-21

SYSTEM OF COMPUTER PROGRAMS FOR ANALYSIS OF TIME SERIES
AD-435778 N64-26054 18-20

ANALYSIS OF TIME SEQUENCES OR SERIES USING STOCHASTIC APPROACH FOR GEOPHYSICAL APPLICATIONS
RS-12 N64-28784 20-12

APPLICATION OF STATISTICS TO ANALYSIS OF STATIONARY TIME SERIES - HARMONIC ANALYSIS
NADC-AC-64095 N64-29763 21-20

TIME SHARING
EVALUATION OF RADIOTELEMETRY SYSTEMS WITH TIME SHARING CONTROLS N64-24509 17-08

OPTIMUM PRIORITY ASSIGNMENT FOR PROCESSING RANDOM ARRIVALS ON SHARED COMPUTER SYSTEM
REPT.-04967-2-T N64-32507 23-20

MATHEMATICAL ANALYSIS OF COMPUTER TIME SHARING SYSTEMS
AROD-9608-37 N64-32535 23-20

TIME-SHARING SYSTEM FOR COMPUTER PROVIDING SIMULTANEOUS USER ACCESS
SP-1499 N64-32968 24-10

TIME SIGNAL
SATELLITE OBSERVATIONS - ACCURACY IN TIME SIGNALS AND ORBITAL ELEMENTS
JPRS-20127 N64-10838 02-01

ERROR IN MOMENT OBSERVATIONS OF SATELLITES RELATED TO PRECISE-TIME SIGNALS N64-10839 02-08

TIME COINCIDENCE SEARCH UNIT FOR USE WITH TIME CODED SIGNALS RECORDED DURING MISSILE TESTS
WRE-TN-EC-2 N64-28060 20-09

STANDARD TIME SIGNAL AND FREQUENCY STANDARD TRANSMISSION IN USSR
ATD-P-64-48 N64-30010 21-15

TIMING
VERY LOW FREQUENCY ENVELOPE TIMING EXPERIMENT
QPR-3 N64-27605 19-08

OPTIMUM STARTING OF NUCLEAR ROCKET TO GIVE FULL POWER WITH PRECISION TIMING AND MINIMUM NOISE
NASA-CR-59209 N64-33120 24-27

TIMING APPARATUS
DETERMINATION OF NONUNIFORMITY OF ASTRONOMICAL TIME USING MOLECULAR STANDARD N64-11424 02-05

DEVICE FOR MEASURING SMALL TIME INTERVALS
FTD-TT-63-149/1&2 N64-11765 03-07

TWO-WIRE SETTING SYSTEM FOR ELECTRONIC TIMERS
HDL-TR-1150 N64-12933 04-09

ELECTROCHEMICAL DELAY CELL FOR TIMING APPARATUS APPLICATION
HDL-TR-1156 N64-13314 04-06

NANOSECOND TIME CODER FOR FLIGHT TIME ANALYSIS
EUR-491.E N64-15559 07-23

CLOCK TRAJECTOGRAPHY SYSTEM BASED ON ACCURATE MEASUREMENT OF TIME INTERVALS N64-18211 10-15

CONSTRUCTION, TESTING, AND DELIVERY OF VERY LOW FREQUENCY ENVELOPE TIMING APPARATUS
TD64-91 N64-20119 13-09

ESTABLISHMENT OF STATIONS AND DEVELOPMENT OF TIME MARKER FOR INVESTIGATING EXTREMELY LOW FREQUENCY MAGNETIC FIELD FLUCTUATIONS
AFCRL-64-81 N64-21030 14-12

ELECTRIC EQUIPMENT - DEVICE FOR REPRODUCTION AND MEASUREMENT OF SHORT TIME INTERVALS
FTD-TT-64-4/1 N64-21664 15-08

TIME-TEMPERATURE INTEGRATOR WITH SENSING ELEMENTS OF PALLADIUM AND PLATINUM FOIL LAYERS FOR CHECKING ENGINE DETERIORATION
AD-434147 N64-22000 15-15

PERFORMANCE CHARACTERISTICS OF SIDEREAL RATE GENERATOR AND CLOCK
NASA-TM-X-55008 N64-23205 16-15

METHOD OF REGULATING PRECISION OF BALANCE-TYPE TIMEPIECES AND CLOCKS N64-23544 16-15

PURE FLUID TIMERS - SPECIFICATIONS, COST AND RELIABILITY N64-23830 16-11

FORMULAS FOR TURBOJET ENGINE ACCELERATION TIMING REGULATORS N64-25435 17-27

SOLID STATE TIMING APPARATUS TO DISCONNECT SOLAR CELLS FROM BATTERIES AFTER TWO YEAR PERIOD
NASA-TM-X-55019 N64-27253 19-06

PRECISION OSCILLATORS FOR MILITARY ELECTRONIC TIMERS - RELATIVE PERFORMANCE OF VARIOUS TYPES AS TO ACCURACY, STABILITY, AND RUGGEDNESS
HDL-TR-1235 N64-30114 21-09

DYNAMIC ANALYSIS OF WAVE ENERGY TIMER FOR ORDNANCE APPLICATIONS
HDL-TR-1196 N64-32927 24-15

TIN
WELDING OF VARIOUS GRANULATED METALLIC POWDERS - TUNGSTEN, NICKEL, TIN, LEAD, TITANIUM, ALUMINUM AND FERROALLOYS N64-10767 02-12

CRITICAL CURRENT, TEMPERATURE, & FIELD OF COMPOSITE NIOBIUM-TIN SUPERCONDUCTING SYSTEMS
SR-7 N64-13595 05-23

SUPERCONDUCTIVE EFFECTS IN ALUMINUM AND TIN THIN FILMS
C-64380 N64-13955 05-23

OPTIMIZATION OF TIN CAN THERMAL BALLAST REQUIREMENTS FOR BLOWDOWN WIND TUNNELS
TN-AE-21-63 N64-19289 11-10

DISTRIBUTION OF GERMANIUM & TIN IN METEORITES N64-25743 17-29

DEPENDENCE OF ELECTRICAL CONDUCTIVITY AND HALL COEFFICIENT OF GRAY TIN ON PRESSURE AND TEMPERATURE
HP-10 N64-26854 18-25

CHEMICAL KINETICS OF REACTION OF COPPER WITH OXYGEN DISSOLVED IN COPPER AND TIN N64-31410 23-07

NIOBIUM-TIN ALLOY SUPERCONDUCTOR
JPRS-26862 N64-32746 24-25

SUPERCONDUCTIVITY OF INDIUM AND TIN UNDER UNIFORM COMPRESSION
NASA-TT-F-9152 N64-33409 24-25

TIN ALLOY
SUPERCONDUCTING NIOBIUM-TIN SOLENOID
REPT.-63-RL-3397/M/ N64-14917 06-23

METASTABLE EXTENSION OF SOLUBILITY LIMIT IN SILVER-BASE BINARY ALLOYS OF TIN, ANTIMONY, AND SILICON
TR-14 N64-31289 22-18

TIN COMPOUND
REACTION BETWEEN ORGANIC BROMIDES AND POWDERED TIN IN RADIATION FIELD
BMI-1654 N64-11410 02-07

PHASE RELATIONS AND ELECTRICAL & THERMAL PROPERTIES IN TIN-TELLURIUM-ANTIMONY AND TIN-TELLURIUM-BISMUTH PSEUDOBINARY SYSTEMS
DMS MASTER*S 63-2 N64-13395 04-19

THERMOCHEMISTRY OF BORON, TIN, AND GERMANIUM ALKYLATES
FTR-2 N64-14361 06-07

FAILURE RATE AND PERFORMANCE RELIABILITY OF CORNING GLASS TIN-OXIDE RESISTOR
AD-438882 N64-25988 18-09

GROWTH OF LARGE CUBIC CRYSTALS FOR LASERS FROM STANNATES, TITANATES, AND ZIRCONATES OF BARIUM AND STRONTIUM
AD-442555 N64-29681 21-25

VAPOR PRESSURE & EVAPORATION COEFFICIENTS OF STANNIC, ZINC, & BERYLLIUM OXIDE
UCRL-7521 N64-29891 21-07

THERMOCHEMISTRY OF ALKYLS OF TIN AND GERMANIUM
AD-448759 N64-32459 23-07

TIN TELLURIDE
ELECTRONIC PROPERTIES OF LEAD AND TIN TELLURIDES FOR THERMOELECTRIC CONVERTERS
AFCRL-63-633 N64-12640 04-25

EPITAXIAL DEPOSITION OF THIN FILMS OF LEAD SULFIDE AND TELLURIDE AND TIN TELLURIDE

N64-15116 07-25

ELECTRIC PROPERTIES OF SINGLE CRYSTALS OF ALLOYS OF LEAD TELLURIDE AND TIN TELLURIDE
AD-430561 N64-19270 11-09

PREPARATION AND PHYSICAL PROPERTIES OF LEAD TELLURIDE AND LEAD TELLURIDE-TIN TELLURIDE SOLID SOLUTION
AD-431558 N64-21475 14-25

TIRE
SINKAGE OF FLAT PLATES IN THIN FILMS OF VISCOUS FLUIDS OVER SMOOTH AND ROUGH SURFACES - MODEL OF RUBBER TIRE ROLLING ON WET PAVEMENT
N64-19050 11-23

FACTORS AFFECTING FRICTION COEFFICIENT BETWEEN TIRES AND PAVEMENT SURFACES, AND PROBLEM OF SKID LANDINGS
R-303 N64-30675 22-04

TIROS I SATELLITE
TIROS I METEOROLOGICAL SATELLITE SYSTEM - DESIGN, DEVELOPMENT, OPERATION, ENGINEERING EVALUATION, AND METEOROLOGICAL USES OF TELEVISION DATA
NASA-TR-R-131 N64-17906 10-21

TIROS I CLOUD PHOTOGRAPHY - PATTERN REVEALING CAPABILITY, PICTURE QUALITY, AND LOCATION DIFFICULTIES N64-17908 10-32

TIROS I PHOTOGRAPHS OF CLOUD SYSTEM OF CYCLONE OVER ATLANTIC OCEAN RELATED TO STANDARD METEOROLOGICAL INFORMATION N64-17909 10-21

TIROS I PHOTOGRAPHS OF CLOUD STRUCTURE OF CUT-OFF CYCLONE OVER EASTERN PACIFIC RELATED TO STANDARD METEOROLOGICAL INFORMATION N64-17910 10-21

TIROS I CLOUD PHOTOGRAPHS OF SUBTROPICAL CONVERGENCE BAND COMPLEMENTS SURFACE METEOROLOGICAL DATA ON QUASI-STATIONARY FRONT
N64-17913 10-21

TIROS I NEPHANALYSIS COMPARED WITH CONVENTIONAL WEATHER ANALYSIS FOR FAMILY OF PACIFIC FRONTAL STORMS N64-17914 10-21

TIROS I PHOTOGRAPHY OF CELLULAR CLOUD PATTERN RELATED TO CONVENTIONAL METEOROLOGICAL ANALYSES, PHYSICAL NATURE OF CELLULAR CONVECTION
N64-17915 10-21

TIROS I NARROW-ANGLE CAMERA STUDY OF ORIENTATION, SPACING, AND LENGTH OF CLOUD STREETS
N64-17916 10-21

TORNADO-PRODUCING CLOUD MASS SEEN FROM TIROS I CORRELATED WITH SURFACE METEOROLOGICAL REPORTS
N64-17917 10-21

TIROS I PICTURES OF MOUNTAIN PHENOMENA, ICE, SUN GLITTER, GULF STREAM, AND SOUTHERN HEMISPHERE CLOUDS N64-17918 10-21

TIROS I OBSERVATION OF TIME VARIATIONS IN SUBTROPICAL JET STREAM AND ASSOCIATED CLOUD PATTERNS
AFCRL-64-238 N64-18898 11-21

USE OF TIROS I SATELLITE PICTURES FOR STUDIES OF INTERNAL STRUCTURE OF TROPICAL STORMS
AD-428165 N64-19930 12-21

TIROS II SATELLITE
CATALOG OF MAPPING PROCEDURES FOR TIROS II RADIATION DATA UTILIZING AUTOMATIC DATA-PROCESSING EQUIPMENT
NASA-TM-X-51116 N64-10602 01-28

TIROS II INFRARED RADIATION MEASUREMENTS TAKEN IN ORBIT OVER NEW ZEALAND
NASA-TN-D-1910 N64-15970 07-12

RADIATION DATA FROM TIROS II, III, AND IV MEASUREMENTS
NASA-CR-56296 N64-24028 16-21

TIROS III SATELLITE
DAYTIME RADIATION DATA FROM TIROS III OVER CLOUDY REGIONS
AFCRL-63-860 N64-10541 01-21

CATALOG OF MAPPING PROCEDURES FOR TIROS III RADIATION DATA UTILIZING AUTOMATIC DATA-PROCESSING EQUIPMENT
NASA-TM-X-51117 N64-10603 01-28

SYNOPTIC ANALYSIS OF TIROS III RADIATION MEASUREMENTS
AFCRL-64-53 N64-17284 09-21

DAYTIME RADIATION PATTERNS FROM TIROS III SATELLITE OVER UNITED STATES
AFCRL-64-34 N64-17632 09-21

TIME CHANGE IN CLOUD COVER OBSERVED BY TIROS III SATELLITE
AFCRL-64-235 N64-18895 11-21

TIROS III OBSERVATION OF INFRARED RADIATION PATTERNS IN 8-12 MICRON RANGE OVER CARIBBEAN SEA
AFCRL-64-236 N64-18896 11-21

TIROS III SATELLITE PHOTOGRAPH OF FLORIDA
AFCRL-64-237 N64-18897 11-21

RADIATION DATA FROM TIROS II, III, AND IV MEASUREMENTS
NASA-CR-56296 N64-24028 16-21

DATA ANALYSIS FROM TIROS III SOLAR REFLECTANCE CHANNELS - ALBEDO
SR-3 N64-25228 17-12

LIMB DARKENING DETERMINATION FROM TIROS III SATELLITE RADIATION MEASUREMENT
NASA-CR-56835 N64-25573 17-12

DATA REDUCTION AND MAPPING PROCEDURES UTILIZING TIROS III FIVE-CHANNEL RADIOMETER DATA
NASA-TM-X-55047 N64-28088 20-08

AID FOR INTERPRETATION OF MEDIUM RESOLUTION RADIATION DATA FROM TIROS III SATELLITE - CORRECTION MODELS FOR RESPONSE DEGRADATION IN FIVE-CHANNEL RADIOMETER
NASA-TM-X-51825 N64-28922 20-12

TIROS III MEASUREMENT OF CLOUD HEIGHTS AND NIGHTTIME CLOUD COVER FROM RADIATION DATA
NASA-RP-340 N64-31217 22-21

TIROS IV SATELLITE
RADIATION DATA FROM TIROS II, III, AND IV MEASUREMENTS
NASA-CR-56296 N64-24028 16-21

TIROS IV RADIOMETER PRINCIPLES AND CALIBRATION AND RADIATION DATA PROCESSING
NASA-TM-X-51921 N64-27404 19-32

TIROS V SATELLITE
MAPS AND TABULATED LISTINGS OF INFORMATION FROM PICTURES OBTAINED BY TIROS V AND VI
N64-12900 04-21

EPHEMERIS CONTAINING OBSERVATIONS OF EXPLORER, MIDAS III & IV, TRANSIT IIA & OTHER SATELLITES
N64-30870 22-08

TIROS VI SATELLITE
MAPS AND TABULATED LISTINGS OF INFORMATION FROM PICTURES OBTAINED BY TIROS V AND VI
N64-12900 04-21

MISSION PLAN FOR TIROS VI SATELLITE
NASA-TM-X-54785 N64-33328 24-32

TIROS VII SATELLITE
CONFIRMATION OF THEORETICAL CALCULATION OF EARTH RADIANCE BY TIROS VII METEOROLOGICAL SATELLITE DATA
NASA-RP-163 N64-20016 13-12

EVALUATION OF TIROS VII METEOROLOGICAL DATA
USAELRDL-TR-2439 N64-26174 18-21

STRATOSPHERIC TEMPERATURE PROFILES BASED ON RADIOMETRIC MEASUREMENTS FROM TIROS VII SATELLITE
NASA-TM-X-55045 N64-28930 20-21

TIROS VIII SATELLITE
PERFORMANCE OF GROUND RECEIVING SYSTEM FROM AUTOMATIC PICTURE TRANSMISSIONS FROM TIROS VIII SATELLITE
TR-2460 N64-32613 23-15

TIROS H SATELLITE
MANAGEMENT PLANNING & OPERATION RESEARCH FOR TIROS H SATELLITE
NASA-TM-X-54699 N64-17608 09-32

TIROS OPERATIONAL SATELLITE SYSTEM
TIROS I SATELLITE SYSTEM - BACKGROUND, DESIGN AND DEVELOPMENT, OPERATION PLAN, LAUNCH, PERFORMANCE, AND EVALUATION N64-17907 10-32

TIROS SATELLITE
PRECISE RECTIFICATION OF TIROS SATELLITE CLOUD PHOTOGRAPHS
MSL-R-14 N64-10011 01-21

TIROS SATELLITE THERMAL FLUX INFRARED DATA
NASA-RP-80 N64-10620 01-23

REDUCTION AND USE OF DATA OBTAINED BY TIROS METEOROLOGICAL SATELLITES
WMO-131-TP-58 N64-11646 03-32

TIROS SATELLITE CAMERA TO GIVE INSTANTANEOUS PHOTOGRAPHS OF CLOUD PATTERNS N64-11778 03-32

TIROS METEOROLOGICAL SATELLITE SUBSYSTEMS AND WEATHER INFORMATION
IAC PAPER-91 N64-12004 03-32

TIROS AND NIMBUS METEOROLOGICAL SATELLITES - MORE EFFECTIVE USE OF DATA OUTPUT
NASA-RP-96 N64-13169 04-32

TIROS OBSERVATIONS OF SUMMER CIRCULATION AND WEATHER PATTERNS OF THE EASTERN NORTH PACIFIC
HIG-40 N64-14137 05-21

MISSION PLANNING FOR TIROS SATELLITE
N64-14889 06-32

TRACKING, TELEVISION, AND INFRARED RADIOMETER SUBSYSTEMS OF TIROS SATELLITES
NASA-TM-X-54565 N64-15859 07-32

RELIABILITY OF VISIBLE CHANNEL OF TIROS SATELLITE 5-CHANNEL RADIOMETER
NASA-CR-53105 N64-16743 08-12

PHOTOGRAPHS OF CLOUD DISTRIBUTION BY TIROS SATELLITES - CLIMATOLOGY
AFCRL-64-230 N64-18181 10-21

TIROS METEOROLOGICAL DATA STUDIES FOR LOWER MIDDLE LATITUDE WEATHER
AFCRL-64-239 N64-18899 11-21

RECOGNITION OF CLOUD PATTERN FROM FILMS TAKEN BY TIROS SATELLITE
NASA-CR-53778 N64-19582 12-21

TIROS SATELLITE PICTURES OF EDDY CURRENTS AND CLOUD PATTERNS
PIBAL-818 N64-19932 12-21

TIROS SATELLITE CLOUD PHOTOGRAPHS AND NEPHANALYSES IN NUMERICAL WEATHER FORECASTING
MSL-23 N64-19967 12-21

ATTITUDE DETERMINATION FOR TIROS SATELLITES
NASA-TN-D-2143 N64-21265 14-32

TIROS SATELLITE OBSERVATION OF CLOUD PATTERNS
REPT.-24 N64-23166 16-21

GLOBAL DISTRIBUTION BALANCE OF RADIATION DETERMINED BY TIROS SATELLITE
NASA-RP-225 N64-24965 17-12

HURRICANE DETECTION BY INFRARED RADIATION MEASUREMENT OF TIROS WEATHER SATELLITE
N64-25013 17-32

CALIBRATION OF FIVE CHANNEL TIROS SATELLITE RADIOMETER N64-28206 20-15

GLOBAL SILICON CARBIDE BLACK MATERIAL APPLIED TO UNIMMERSED TIROS RADIOMETER TYPE INFRARED DETECTORS
NASA-CR-60003 N64-28925 20-15

ATLAS OF PHOTOGRAPHY FROM TIROS SATELLITES I TO IV
NASA-CR-98 N64-30085 21-12

LOW RESOLUTION RADIOMETER FROM TIROS SATELLITE
NASA-TN-D-614 N64-30090 21-15

TIROS AND NIMBUS METEOROLOGICAL SATELLITES
N64-30341 22-32

DIRECT READOUT EQUATORIAL WEATHER SATELLITE - TIROS SYSTEM, METEOROLOGICAL APPLICATION, AND SOLAR CELL POWER SUPPLY
AED-R-2169 N64-30669 22-32

CLOUD PATTERNS, CLOUD DISTRIBUTION, AND VORTICES OVER ATLANTIC OCEAN SHOWN BY PHOTOGRAPHS FROM TIROS SATELLITES
ARA-F-9252-2 N64-32815 24-21

SCANNING PRINTER APPLICATION TO ANALYSIS OF TIROS METEOROLOGICAL SATELLITE RADIATION DATA
NASA-CR-58975 N64-33096 24-15

CLIMATOLOGY FROM TIROS SATELLITE RADIOMETRY DATA - ATMOSPHERIC MOISTURE AND HEAT BALANCE
NASA-TM-X-55088 N64-33637 24-12

TISSUE
THIAMINE AND RIBOFLAVIN CONTENT OF TISSUES IN BURN SHOCK N64-10010 01-16

TRAUMATIC SHOCK CAUSED BY SOFT TISSUE COMPRESSION IN RABBITS AFTER ACUTE RADIATION INJURY
JPRS-22001 N64-10393 01-16

ACTION MECHANISM OF MEDICINAL SUBSTANCES ON HUMAN CELLS AND TISSUES AND TREATMENT OF ENSUING ILLNESS
JPRS-22292 N64-11781 03-16

RADIOPHYSICS RESEARCH - RADIATION EFFECT ON TISSUE CULTURE CELLS
NYO-10451 N64-12123 03-16

CLINICAL RADIOLOGY RELATION TO SURGERY AND STUDIES OF ORGANS AND TISSUES
JPRS-23317 N64-15336 07-16

ELECTRIC PROPERTIES OF TISSUES N64-17539 09-16

NUTRIENT REQUIREMENTS, PROTEIN CONTENT, AND ABILITY TO FIX CARBON DIOXIDE OF PLANT TISSUE CULTURES
AMRL-TDR-63-124 N64-17864 10-16

SIMULATION WITH CARBON PARTICLES OF BACTERIAL INVASION OF HUMAN GINGIVAL TISSUES - PHYSIOLOGY
SAM-TDR-64-4 N64-17963 10-16

IONIZING RADIATION EFFECTS ON MAMMALIAN TISSUES, THERAPEUTIC AGENTS FOR RADIATION SICKNESS AND EFFECTS OF LOW LEVEL EXPOSURE ON LIFESPAN OF MICE
QPR-51 N64-20181 13-16

TISSUE MECHANISMS - ADAPTATION OF ANIMALS TO REDUCED OXYGEN CONTENT IN ENVIRONMENT
JPRS-16105 N64-21480 14-16

YOUNGS MODULUS & BREAKING STRENGTH OF BODY TISSUES
AMRL-TDR-64-23 N64-22317 15-16

EFFECT OF TRANSVERSE ACCELERATION ON OXYGEN TENSION IN BRAIN TISSUE
FTD-TT-63-1215/16264 N64-22665 15-16

DENTAL TISSUE CHANGES IN RATS AFTER REPEATED SMALL DOSES OF IONIZING RADIATION
NASA-TT-F-8851 N64-23046 16-16

THERMAL AND ELECTRICAL CONDUCTIVITIES OF BIOLOGICAL FLUIDS AND TISSUES
GLR-24 N64-25892 18-16

STRUCTURE, PROPERTIES, AND PATHOLOGICAL CHANGES OF ELASTIC FIBROUS COMPONENTS OF CONNECTIVE TISSUE
JPRS-25252 N64-26056 18-16

ETIOLOGY OF DECOMPRESSION SICKNESS - GAS-BUBBLE FORMATION IN VASCULAR SYSTEM AND TISSUES
DVL-351 N64-26665 18-16

RHYTHM VARIATIONS OF NEURONS OF RETICULAR FORMATION DURING LATERAL OVERLOADS
NASA-TT-F-230 N64-26784 18-16

EFFECTS OF X-RAY IRRADIATION ON ENZYME ACTIVITY IN BRAIN AND MUSCLE TISSUE OF RATS
JPRS-25630 N64-27319 19-16

PARTICIPATION OF ANIONS IN FUNCTION OF EXCITABLE TISSUES N64-28040 20-16

SPLEEN, LYMPH NODES, AND LOOSE CONNECTING TISSUE REACTIONS TO ANTIGENIC STIMULI IN IRRADIATED ANIMALS N64-30244 22-16

GLASS MICRODOSIMETER ROD MEASUREMENT OF RADIATION DOSE WITHIN TISSUE
UR-651 N64-31059 22-16

RADIATION EFFECTS - RELATION OF ARTERIAL PRESSURE & REGULATING MECHANISMS AND LIPOLYTIC ENZYME INDUCTION BY CONNECTIVE TISSUE CELLS
FTD-TT-64-329/1&2&4 N64-32544 23-16

GAMMA GLOBULIN AND IONIZING RADIATION EFFECTS ON ANTIBODY PRODUCTION IN IRRADIATED & NONIRRADIATED TISSUE
JPRS-26956 N64-32750 24-16

DISTURBANCE OF OSMOTIC TISSUE REGULATION IN WATER TOXICITY
NASA-TT-F-9110 N64-33393 24-16

TITAN I ICBM
NOISE LEVEL MEASUREMENTS OF GROUND SUPPORT EQUIPMENT AT ATLAS AND TITAN I FACILITIES
AMRL-TDR-64-31 N64-24155 16-10

TITAN II ICBM
GEMINI LAUNCH VEHICLE PILOT SAFETY PROGRAM
TOR-169/3126/-10 N64-18040 10-30

VIBRATIONAL ANALYSIS OF TITAN II CONFIGURATION A VEHICLE DYNAMIC STABILITY
SSD-CR-64-103 N64-25337 17-30

THRUST VARIATION ANALYSIS OF TITAN II TRANSLATION ROCKET MOTOR
CR-64-113 N64-25989 18-27

HUMAN RELIABILITY IN PERFORMANCE OF MAINTENANCE FOR TITAN II ENGINE
LRP-317/TDR-63-218 N64-26025 18-14

EXTENDED DURATION TESTS ON TITAN II CONFIGURATION ABLATIVE SKIRTS TO OBTAIN FIRING CAPABILITY DATA
REPT.-0788-AST-1 N64-31585 23-13

TITAN III ICBM
ACOUSTIC AND RANDOM VIBRATION FATIGUE TEST OF STRUCTURAL SKIN PANELS FOR TITAN III ICBM
SSD-CR-64-95 N64-21110 14-33

TITAN III ICBM INTEGRATED ELECTRONIC CHECKOUT AND LAUNCH CONTROL SYSTEM
SSD-TDR-64-35 N64-22378 15-10

TITAN III INERTIAL GUIDANCE SYSTEM
I-O-25 N64-24868 17-30

TITAN LAUNCH VEHICLE
FAR-FIELD ACOUSTICS MONITORING OF TITAN INTERCONTINENTAL BALLISTIC MISSILE LAUNCHES
NASA-TM-X-54632 N64-16718 08-23

TITANATE
STRONTIUM TITANATE RADIOISOTOPE HEAT SOURCE FOR SNAP-7B THERMOELECTRIC GENERATOR
MND-P-2977 N64-12390 03-06

VERY FINE CRYSTALLINE CERAMIC PRODUCED BY DEVITRIFICATION OF BARIUM TITANATE N64-16610 08-19

MECHANISM FOR THERMOPHOTOTROPIC BEHAVIOR IN PEROVSKITE-STRUCTURED ALKALINE EARTH TITANATES
NASA-TN-D-2258 N64-17296 09-23

FAILURE MECHANISMS AT INSULATOR-CONDUCTOR JUNCTION OF ANODIZED TANTALUM AND CERAMIC BARIUM TITANATE CAPACITORS N64-20976 14-09

EFFECTS OF IMPURITIES ON PHOTOTHERMOTROPIC PROPERTIES OF ALKALINE EARTH TITANATES
NASA-TN-D-2306 N64-21270 14-07

FREQUENCY AND TEMPERATURE RESPONSE OF POLARIZATION OF THIN SINGLE CRYSTAL BARIUM TITANATE
TR-188 N64-22005 15-23

GROWTH TWINNING IN BARIUM TITANATE CERAMICS AND SINGLE CRYSTAL INTERACTIONS
AD-434228 N64-22205 15-19

NOISE EQUIVALENT POWER OF BARIUM TITANATE SINGLE CRYSTALS AND CERAMICS
NASA-CR-44 N64-24825 17-09

CLEAVAGE ENERGY OF BORON BOND AND PHYSICAL PROPERTIES OF RARE EARTH TITANATES
JPRS-25530 N64-26398 18-07

PREPARATION AND PHYSICAL PROPERTIES OF RARE EARTH TITANATES N64-26400 18-18

FEASIBILITY OF BARIUM TITANATE IN SATELLITE TEMPERATURE CONTROL SYSTEMS
NASA-CR-56412 N64-27387 19-19

GROWTH OF LARGE CUBIC CRYSTALS FOR LASERS FROM STANNATES, TITANATES, AND ZIRCONATES OF BARIUM AND STRONTIUM
AD-442555 N64-29681 21-25

TITANIUM
X-RAY ANALYSIS OF SOLUBILITY OF TITANIUM, YTTRIUM, ZIRCONIUM, AND NICKEL IN BERYLLIUM
JPRS-17681 N64-10565 01-18

OXIDATION OF TITANIUM IN AIR AND WATER AT LOW TEMPERATURE
JPRS-17815 N64-10567 01-18

X-RAY SPECTROSCOPY AND SPECTROGRAPHY FOR CONTROL OF ALUMINUM, TITANIUM, AND STEEL WELDING
OTS-63-22058 N64-10589 01-17

WELDING OF VARIOUS GRANULATED METALLIC POWDERS - TUNGSTEN, NICKEL, TIN, LEAD, TITANIUM, ALUMINUM AND FERROALLOYS N64-10767 02-12

STRENGTH OF BRAZED JOINTS OF TITANIUM WITH OTHER METALS AND ELECTROPLATED PROTECTIVE COATINGS
JPRS-22096 N64-11271 02-18

CORROSION PROBLEMS ASSOCIATED WITH USE OF TITANIUM FASTENERS TO CONNECT ALUMINUM COMPONENTS
NASA-TM-X-51167 N64-11381 02-07

TABULATION OF DESIGNATIONS, PROPERTIES, AND TREATMENTS OF TITANIUM AND TITANIUM ALLOYS
DMIC-MEMO-171 N64-11468 03-18

RESIDUAL STATIC STRENGTH OF TITANIUM & STAINLESS STEEL ALLOYS AND ONE SUPERALLOY AT VARIOUS TEMPERATURES
NASA-TN-D-2045 N64-12104 03-18

TITANIUM & TITANIUM ALLOYS - SHEET STAMPING, ALLOYING INFLUENCE ON STAMPABILITY, & SAFETY TECHNIQUES

JPRS-22746 N64-13019 04-18

TITANIUM & TITANIUM ALLOYS - WELDING TECHNIQUES & ELECTROSLAG MELTING
JPRS-22492 N64-13417 05-01

WELDING TITANIUM AND ITS ALLOYS BY DIFFUSION UNDER VACUUM N64-13420 05-17

TENSILE STRENGTH PROPERTY OF CHROMIUM-MAGNESIUM OXIDE ALLOY WITH TITANIUM
AD-424854 N64-13600 04-19

METALLIC & CERAMIC REFRACTORY COATING FOR THERMAL PROTECTION OF TITANIUM
AMRA-TR-63-12 N64-13850 05-19

ROCKET MOTOR CASE MATERIALS EVALUATION INCLUDING RESULTS FOR TITANIUM, STAINLESS STEEL, & TEXTURED TITANIUM N64-15849 07-33

X-RAY ABSORPTION AND EMISSION SPECTRA OF TITANIUM IN DIELECTRIC MATERIALS N64-16219 08-23

SORPTION OF GASES BY VAPOR-DEPOSITED TITANIUM FILMS
ORNL-3481 N64-16526 08-23

EFFECT OF WEATHERING ON BRAZED TITANIUM
FTDR-2988 N64-16635 08-18

METALLURGICAL EXAMINATION OF COATED TITANIUM BOLT AND SHEET
A466 N64-16784 08-18

OXIDATION MECHANISM OF TITANIUM
RSIC-135 N64-16970 09-18

ROLLING TITANIUM INTO HIGHLY POROUS STRIP FOR FILTERS N64-17023 09-17

TITANIUM AND TITANIUM ALLOYS - DEVELOPMENT OF ALLOYS AND MECHANICAL PROPERTIES N64-17212 09-18

X-RAY FLUORESCENCE ANALYSIS OF POTASSIUM, BARIUM, RUBIDIUM, STRONTIUM, TITANIUM, ZIRCONIUM, AND PHOSPHORUS
RSIC-137 N64-17656 09-07

TITANIUM SURFACE STRENGTHENING BY NITRATION, OXIDATION, AND METAL PLATING - TITANIUM PLATING OF STEEL
JPRS-23913 N64-17736 09-18

DIFFUSION OF SILICON IN TITANIUM, TANTALUM, IRON, AND MOLYBDENUM
FTD-MT-63-39/1&2 N64-18669 11-25

ELECTRIC ARC WELDING OF TITANIUM IN INERT GAS STREAM
FTD-MT-63-31/1&2 N64-18748 11-17

TRANSFER OF ALLOYING METALS DURING ELECTROREFINING OF TITANIUM IN MOLTEN-SALT ELECTROLYTE
BM-RI-6437 N64-19171 11-17

TITANIUM ELECTROREFINING CELLS USING SODIUM CHLORIDE-TITANIUM CHLORIDE ELECTROLYTES
BM-RI-6432 N64-19226 11-17

TITANIUM METALLURGICAL EQUIPMENT USED IN NICKEL PRODUCTION
JPRS-24269 N64-19277 11-18

STATIC ATOMIC DISPLACEMENT AND THERMAL EXPANSION MEASUREMENTS OF TITANIUM-NITROGEN COMPOSITE STRUCTURES
C-22 N64-20574 13-25

FORGING OF FRONT AND REAR CLOSURES FOR TITANIUM ROCKET MOTOR CASES
WAL-TR-766.2/1-14, VOL. I N64-20908 14-17

RING-ROLLING AND FLOW TURNING TECHNIQUES FOR CYLINDRICAL SECTIONS OF TITANIUM ROCKET MOTOR CASES
WAL-TR-766.2/1-14, VOL. II N64-20909 14-17

WELDING PROCESSES FOR FABRICATION OF TITANIUM ROCKET MOTOR CASE
WAL-TR-766.2/1-14, VOL. III N64-20910 14-17

FULL SCALE COMPONENT RELIABILITY TEST FOR TITANIUM ROCKET MOTOR CASE
WAL-TR-766.2/1-14, VOL. IV N64-20911 14-17

SELF-PASSIVATION OF TITANIUM IN ACIDIC, BASIC AND NEUTRAL MEDIA N64-20914 14-18

WEIGHT AND THICKNESS DETERMINATION OF OXIDE FILMS ON ANODIZED TITANIUM N64-20922 14-07

RHENIUM PROTECTIVE COATING FOR TITANIUM DURING HIGH TEMPERATURE BRAZING N64-21189 14-18

DIFFUSION OF TITANIUM-44 AND VANADIUM-48 IN TITANIUM
ORNL-3616 N64-21830 15-18

EFFECTS OF TITANIUM, ALUMINUM, & GAS CONTENT ON MECHANICAL PROPERTIES OF NIMONIC ALLOY
JPRS-25005 N64-23253 16-33

GAS IONIZATION FOR REMOVAL OF INERT GASES FROM TITANIUM GETTER PUMP
AEDC-TDR-64-83 N64-23974 16-09

PLASMA ARC TECHNIQUE FOR SPECTROCHEMICAL DETERMINATION OF TITANIUM AND ZIRCONIUM IN MOLYBDENUM ALLOYS
ML-TDR-64-36 N64-26855 18-07

REACTIVITY OF TITANIUM WITH OXYGEN
NASA-TR-R-180 N64-27509 19-18

DELAYED CRACKING IN SEAM WELDED STRUCTURES OF UNALLOYED TITANIUM SHEET
DMIC-MEMO-191 N64-27723 19-18

VAPOR DEPOSITION OF BORIDES OF TITANIUM, HAFNIUM, AND ZIRCONIUM
R64SD46 N64-29433 21-07

WING BOX FUEL CONTAINMENT STUDIES - STATIC AND FATIGUE TESTS ON TITANIUM BOX BEAM SPECIMENS
LAC/425741/A/ N64-31302 22-17

LOW ENERGY GAMMA RAYS FROM PROTON CAPTURE IN TITANIUM STABLE ISOTOPES N64-33814 24-23

SEMICONDUCTOR LASER, CATALYST ADSORPTION OF OXYGEN, AND SPECTROPHOTOMETRY OF TITANIUM
JPRS-27079 N64-33995 24-07

ORGANIC COMPOUNDS AND COMPLEXES OF TITANIUM FOR SPECTROPHOTOMETRY N64-33998 24-07

CARBON ION MOBILITY CHANGE IN TITANIUM, TANTALUM, & TUNGSTEN
NASA-TT-F-263 N64-34021 24-18

TITANIUM ALLOY
CHEMICAL AND MECHANICAL PROPERTIES OF ALUMINUM, NICKEL, STEEL AND TITANIUM ALLOYS
NASA-CR-52533 N64-10341 01-18

STRESS-CORROSION CRACKING OF TITANIUM ALLOY AND NICKEL MARAGING STEELS WITH COATINGS EVALUATION
LO414-01-22 N64-10543 01-33

DURABILITY AND HIGH-STRENGTH OF TITANIUM BASE ALLOYS PREPARED AT TWO INTERSTITIAL LEVELS
WAL-TR-401/303-2 N64-10554 01-18

SHOCK TESTING FOR EFFECT OF HYDROGEN ON TITANIUM ALLOYS
JPRS-17990 N64-10730 02-18

HIGH VACUUM SINTERING-ALLOYING OF TITANIUM CARBIDE AND MOLYBDENUM, AND HEAT PRESSING N64-11010 02-18

SALT STRESS CORROSION SUSCEPTIBILITY OF COMMERCIAL TITANIUM ALLOY SHEETS
NASA-TN-D-2011 N64-11245 02-18

ALLOY CASTING OF TITANIUM AND ALUMINUM IN VACUUM

AND ELECTRIC FURNACES
JPRS-22175 N64-11276 02-18

TABULATION OF DESIGNATIONS, PROPERTIES, AND TREATMENTS OF TITANIUM AND TITANIUM ALLOYS
DMIC-MEMO-171 N64-11468 03-18

FATIGUE PROPERTIES OF ALUMINUM AND TITANIUM ALLOYS AT LOW TEMPERATURES
NASA-CR-55027 N64-11818 03-18

EFFECT OF WHEEL EXPULSION FROM SEAM WELDING ON AMS 4901 TITANIUM ALLOY
A246 N64-11926 03-18

EFFECT OF OXYGEN ON PROPERTIES & HEAT TREATMENT OF TITANIUM ALLOY
JPRS-22595 N64-12151 03-18

RUPTURE TEST OF WELDED TITANIUM ALLOY ROCKET MOTOR CASE
A515 N64-12153 03-33

MACHINABILITY OF HEAT-RESISTANT & TITANIUM ALLOYS
FTD-TT-62-1257/1&2 N64-12837 04-17

TITANIUM & TITANIUM ALLOYS - SHEET STAMPING, ALLOYING INFLUENCE ON STAMPABILITY, & SAFETY TECHNIQUES
JPRS-22746 N64-13019 04-18

METALLURGICAL AND MECHANICAL PROPERTIES OF HEAT-TREATED MOLYBDENUM-ALUMINUM-TITANIUM ALLOY FORGING
A247 N64-13101 04-18

FABRICATION CHARACTERISTICS OF ALUMINUM-VANADIUM-MOLYBDENUM-TITANIUM BASE ALLOY
A248 N64-13102 04-18

PRODUCTION & TESTING OF MOLYBDENUM-TITANIUM AND TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY SHEET
AD-423981 N64-13118 04-18

MICROSTRUCTURE OF TITANIUM ALLOY - FORGING AT TEMPERATURES ABOVE & BELOW BETA TRANSUS
N64-13138 04-18

TITANIUM & TITANIUM ALLOYS - WELDING TECHNIQUES & ELECTROSLAG MELTING
JPRS-22492 N64-13417 05-01

AUTOMATIC SUBMERGED ARC-WELDING OF TITANIUM-ALLOY PARTS
N64-13418 05-17

ELECTROSLAG MELTING OF TITANIUM ALLOY INGOTS
N64-13419 05-17

WELDING TITANIUM AND ITS ALLOYS BY DIFFUSION UNDER VACUUM
N64-13420 05-17

CORROSION STABILITY OF TITANIUM ALLOYS JOINED BY DIFFUSION WELDING UNDER VACUUM N64-13421 05-07

ADHESION OF NICKEL, NICKEL-TITANIUM, & NICKEL-CHROMIUM DROPS TO ALUMINUM OXIDE SINGLE CRYSTAL PLAQUES
AMRA-CR-63-01/4 N64-13998 05-19

INTERSTITIAL IMPURITIES IN TITANIUM-IRON ALLOYS
N64-14234 06-23

MACHINING TESTS OF TITANIUM-ZIRCONIUM-MOLYBDENUM AND MOLYBDENUM-TITANIUM ALLOYS, AND THEIR MICROSTRUCTURE AND CHEMICAL COMPOSITION
ASD-TDR-63-581 N64-14873 06-17

HIGH DUCTILITY IN INTERMETALLIC NICKEL-TITANIUM COMPOUND AND NICKEL-RICH ALLOYS
N64-15104 07-18

MECHANICAL PROPERTIES OF STEELS, ALUMINUM, NICKEL, TITANIUM, AND COBALT ALLOYS FOR CRYOGENIC AEROSPACE STRUCTURES
SSD-63-271 N64-15594 07-18

SPOT WELDING CHARACTERISTICS OF TITANIUM ALLOYS
NAEC-AML-1815 N64-15819 07-18

MECHANICAL PROPERTIES OF TITANIUM ALLOY WELDMENT
A467 N64-16785 08-18

TITANIUM ALLOY DEVELOPMENT
WAL-TR-405/2-3 N64-16891 08-18

MECHANICAL AND PHYSICAL PROPERTIES OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY AND TUNGSTEN SHEET
REPT.-6659-1479-5 N64-16992 09-18

BEHAVIOR OF NICKEL AND SOLID SOLUTIONS OF TITANIUM IN NICKEL AT HIGH TEMPERATURES AND LOW STRAIN RATES N64-17048 09-18

METAL FORMING, MACHINING, & FINISHING COMPONENTS FABICATED FROM HEAT RESISTANT ALLOYS, STAINLESS STEEL, & TITANIUM ALLOYS
FTD-TT-63-344/1&2 N64-17076 09-17

PLASTICITY & MECHANICAL PROPERTIES OF TITANIUM ALLOYS AS FUNCTIONS OF HOT DEFORMATION
N64-17084 09-18

SHEET STAMPING HEAT RESISTANT ALLOYS & TITANIUM ALLOYS - METALWORKING N64-17085 09-17

WORK FORMING OF TITANIUM ALLOYS
N64-17089 09-18

SPOT & SEAM RESISTANCE WELDING OF TITANIUM
N64-17094 09-17

MACHINING HEAT RESISTANT MATERIALS & TITANIUM ALLOYS N64-17105 09-17

DELTA TITANIUM-CADMIUM PLATING FOR HIGH STRENGTH STEELS
A464 N64-17130 09-17

TITANIUM AND TITANIUM ALLOYS - DEVELOPMENT OF ALLOYS AND MECHANICAL PROPERTIES
N64-17212 09-18

PLASTIC DEFORMATION AND ANISOTROPY IN TITANIUM ALLOYS AND SHEET STEEL
AD-431969 N64-17642 09-17

COMPRESSIVE CRIPPLING TESTS OF CLOSE COLUMN MEMBERS OF RENE 41, INCONEL X, AND TITANIUM ALLOY AT ROOM AND ELEVATED TEMPERATURES
SM-44540 N64-17668 09-18

STRESS CORROSION OF TITANIUM ALLOYS IN ACID MEDIA
FTD-MT-63-123 N64-18678 11-18

HIGH STRENGTH AND HIGH TOUGHNESS TITANIUM BASE ALLOY FOR LIQUID HYDROGEN PROPELLANT TANK
SM-44674 N64-18709 11-18

CYCLING FATIGUE BEHAVIOR OF STAINLESS STEEL AND TITANIUM ALLOY FOR SUPERSONIC TRANSPORT
NASA-CR-28 N64-18726 11-18

EXTRUSION TECHNOLOGY OF HIGH STRENGTH TITANIUM ALLOY
ASD-TR-8-103, VOL. 2 N64-19112 11-18

PLANE-STRAIN DEFORMATION OF TITANIUM ALLOY - VARIATION OF PLASTIC ANISOTROPY WITH TEMPERATURE AND STRAIN
PR-2 N64-20268 13-18

HIGH STRENGTH LIGHTWEIGHT TITANIUM ALLOY PRESSURE VESSEL FOR SOLID FUEL ROCKET MOTOR CASES
WAL-TR-766.2/1-13 N64-20383 13-18

MECHANICAL ANISOTROPY OF TITANIUM SHEET ALLOYS IN UNIAXIAL TENSION - INVALIDATION OF HILL THEORY
AMRA-TR-63-36 N64-20418 13-18

WELDING OF TITANIUM AND NIOBIUM ALLOYS
JPRS-24521 N64-20654 13-18

WELDING OF TITANIUM ALLOYS N64-20655 13-18

EVALUATING TITANIUM ALLOYS FOR USE IN ROCKET MOTOR CASES
WAL-TR-766.2/1-14, VOL. V N64-20912 14-18

CORROSION OF TITANIUM AND ITS ALLOYS

JPRS-24602 N64-20913 14-18

CORROSION AND ELECTROCHEMICAL BEHAVIOR OF TITANIUM AND TITANIUM-MOLYBDENUM ALLOYS N64-20915 14-18

HYDROGEN EMBRITTLEMENT OF ALPHA-TITANIUM ALLOYS DURING CATHODE POLARIZATION N64-20916 14-18

CURRENT DENSITY EFFECT ON HYDROGEN EMBRITTLEMENT AND CORROSION OF TITANIUM ALLOYS N64-20917 14-18

HYDROGEN EMBRITTLEMENT AND CORROSION OF TITANIUM ALLOYS UNDER STRESS N64-20918 14-18

PROPERTIES AND EFFECTS OF THICK OXIDE FILMS FORMED BY ANODIZATION OF ALUMINUM AND TITANIUM ALLOYS
JPRS-24627 N64-20919 14-18

FATIGUE TESTS OF STAINLESS STEEL AND TITANIUM-ALUMINUM ALLOY SHEETS AT VARIOUS TEMPERATURES
NASA-CR-23 N64-21251 14-18

MECHANICAL AND PHYSICAL PROPERTIES OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY AND TUNGSTEN SHEET
REPT.-6774-1479-VI N64-21410 14-18

HIGH STRENGTH ALPHA-BETA TITANIUM BASE ALLOYS
WAL-TR-401-303-4 N64-22106 15-18

ULTRASONIC INSPECTION OF MMS-184 TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY SHEET FOR DISCONTINUITY DEFECTS
A746 N64-22588 15-17

METALLOGRAPHIC EXAMINATION OF TITANIUM-ZIRCONIUM MOLYBDENUM ALLOY SHEET
A747 N64-22589 15-17

TENSILE PROPERTIES OF SILICIDE COATED TITANIUM-ZIRCONIUM-MOLYBDENUM SHEET ALLOY AT ROOM AND ELEVATED TEMPERATURES
A748 N64-22590 15-18

WINDING RESIN-BONDED GLASS FILAMENT AND TITANIUM ALLOY ROCKET MOTOR CASE
PWA-2336 N64-22721 15-27

BENDING AND TENSILE STRENGTHS OF VARIOUS TITANIUM ALLOYS
WAL-TR-405/2-4 N64-22921 16-18

TEMPERATURE EFFECT ON FRACTURE STRENGTH OF TITANIUM-ALUMINUM-VANADIUM ALLOY SHEET
SM-44640 N64-22973 16-18

EFFECTS OF PRODUCTION & FABRICATION VARIABLES ON NOTCH STRENGTH OF ALUMINUM-TIN-TITANIUM ALLOY AT LIQUID HYDROGEN TEMPERATURE
NASA-RP-201 N64-23276 16-18

DEFORMATION PROCESSING OF ANISOTROPIC METALS
PR-4 N64-23674 16-18

MECHANICAL AND THERMOPHYSICAL PROPERTIES OF COATED NIOBIUM AND TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOYS AND SUPERALLOY THIN SHEET
SID-63-956 N64-24126 16-18

ELECTRON BEAM, DIFFUSION, AND PRESS WELDING APPLIED TO ELECTROVACUUM APPARATUS - ALUMINUM, MAGNESIUM, AND TITANIUM ALLOYS
FTD-TT-62-1247/1&2 N64-24252 17-18

MOLTEN-SLAG ARCLESS ELECTRIC WELDING OF VT5-1 TITANIUM ALLOY N64-24258 17-18

SUBMERGED ARC AND ELECTROSLAG WELDING FOR THICK TITANIUM ALLOY PLATE
DMIC-MEMO-188 N64-24334 17-18

TITANIUM ALLOY WITH EXTRA LOW INTERSTITIAL CONTENT - LIGHTWEIGHT LIQUID HYDROGEN TANK N64-25024 17-26

MECHANICAL PROPERTIES DATA CENTER - TITANIUM-ALUMINUM-VANADIUM ALLOY
AD-437627 N64-25033 17-18

REFRACTORY MATERIALS FOR COATINGS AND FASTENERS AND COATED FASTENER OF TITANIUM-ZIRCONIUM-MOLYBDENUM SYSTEM ALLOY N64-25045 17-17

TITANIUM ALLOYS TO INDUCE COMPOUND PRECIPITATION HARDENING AND STABLE-BETA ALLOYS
WAL-TR-403/2-5 N64-25226 17-18

HARDENABILTIY OF TITANIUM BASE ALLOYS OBSERVED BY METALLOGRAPHIC EXAMINATION
JPL-TR-32-589 N64-25493 17-18

MECHANICAL PROPERTIES OF WELDED HIGH STRENGTH TITANIUM ALLOY SHEET
NASA-CR-56787 N64-25506 17-18

TITANIUM ALLOYS - USES AS NONCORROSIVE MATERIAL
JPRS-24859 N64-25853 18-18

DIFFUSION STUDIES OF COMMERCIALLY AVAILABLE COATING ON MOLYBDENUM ALLOY SHEET AT 2500 DEG F N64-27022 19-19

PERFORMANCE OF TITANIUM ALLOY TANKAGE FOR CRYOGENIC LIQUID PROPELLANTS
SM-43116 N64-27409 19-17

OPTIMIZATION OF CHROMIUM-TITANIUM-SILICON COATING PROCESS FOR LABORATORY AND PILOT SCALE COATING FURNACES
ASD TDR-62-934, PT. II N64-27476 19-18

EFFECT OF HYDROGEN CONTENT ON MECHANICAL PROPERTIES OF TITANIUM-6 ALUMINUM-4 VANADIUM BAR AT MINUS 423 DEG F
SM-44661 N64-27516 19-18

ELECTROSLAG WELDING OF FORGINGS OF TITANIUM ALLOY N64-27618 19-17

SECTION SIZE INFLUENCE ON MECHANICAL PROPERTIES AND FRACTURE TOUGHNESS OF 7075-T6 ALUMINUM, 6A1-6V-2SN TITANIUM, AND AISI 4340 STEEL
ARMA-TR-64-05 N64-27952 20-18

EFFECTS OF TECHNOLOGICAL PROCESSES ON MECHANICAL PROPERTIES OF CAST TITANIUM AND MOLYBDENUM ALLOYS N64-29041 21-18

ROTATING BEAM FATIGUE TESTS FOR TITANIUM-ALUMINUM-VANADIUM ALLOY AT NORMAL & ELEVATED TEMPERATURES
ICAF-251 N64-29362 21-33

ELECTRON PROBE ANALYSIS OF BETA-TITANIUM-VANADIUM, BETA-TITANIUM-NIOBIUM, AND CHROMIUM-VANADIUM DIFFUSION SYSTEMS
NRL-6141 N64-29962 21-18

CRACK INITIATION IN CRYSTALLINE MATERIALS OBSERVED THROUGH PURE TUNGSTEN, TITANIUM ALLOY, AND LITHIUM FLUORIDE SINGLE CRYSTALS
SURI-MET-1160-0764-IT N64-30963 22-33

BEND TRANSITION TEMPERATURE OF ARC-CAST WORKED, RECRYSTALLIZED, AND WELDED MOLYBDENUM AND MOLYBDENUM-TITANIUM ALLOY SHEET
NASA-TN-D-1869 N64-30997 22-18

HOT PRESSING OF TITANIUM ALLOY BLANKS
JPRS-26689 N64-31034 22-18

THERMAL CONDUCTIVITY, THERMOELECTRIC POWER, AND ELECTRICAL RESISTIVITY OF STOICHIOMETRIC TITANIUM-NICKEL ALLOY
NOLTR-64-76 N64-31085 22-25

AXIAL LOAD FATIGUE-CRACK PROPAGATION IN TITANIUM AND STAINLESS STEEL ALLOYS
NASA-TN-D-2331 N64-31568 23-18

SILVER, RHENIUM, AND RHODIUM GALVANIC COVERINGS FOR PROTECTING TITANIUM ALLOY FROM OXIDATION AND SOLDER COMPONENT INTERACTIONS DURING SOLDERING
FTD-MT-64-48 N64-31883 23-18

COLD WORKING PRESSURE FOR TITANIUM ALLOYS AND PRODUCTION OF NIOBIUM ALLOYS FROM OXIDES
JPRS-26789 N64-32129 23-18

DISPERSION-STRENGTHENED NICKEL, TITANIUM, CARBON, AND BORON ALLOYS
ASD-TR-62-734, PT. II N64-32479 23-18

HOT-SALT STRESS-CORROSION CRACKING OF TITANIUM ALLOYS - SUPERSONIC TRANSPORT APPLICATION
NASA-CR-117 N64-32829 24-18

FLOW AND FRACTURE MICROMECHANICS IN HIGH STRENGTH STEELS AND TITANIUM ALLOYS
ML-TDR-64-182 N64-33373 24-18

TITANIUM, VANADIUM, AND CHROMIUM ALLOY COMPOSITE ROCKET MOTOR CASE
PWA-2364 N64-33649 24-27

YIELD LOCUS FOR ALUMINUM-TITANIUM ALLOY
PR-5 N64-33873 24-18

TITANIUM ALLOY FOR HULLS OF DEEP-DIVING VEHICLES - PHYSICAL METALLURGY & DEVELOPMENT
MEL-194/64 N64-33881 24-18

TITANIUM CARBIDE
PHYSICAL AND MECHANICAL PROPERTIES STUDIED IN PREPARING NONSTOICHIOMETRIC METAL CARBIDES - TITANIUM CARBIDE
NASA-CR-52420 N64-10612 01-18

COBALT BONDED CARBIDES OF TUNGSTEN, TITANIUM, AND TANTALUM - STRUCTURE AND PROPERTIES
JPRS-18637 N64-10642 01-18

HIGH VACUUM SINTERING-ALLOYING OF TITANIUM CARBIDE AND MOLYBDENUM, AND HEAT PRESSING
N64-11010 02-18

WETTING CARBIDE ALLOYS OF MOLYBDENUM & TITANIUM WITH NICKEL AND FORMING ALUMINUM NITRIDE BY POWDER METALLURGY
JPRS-22655 N64-13697 04-01

MOLYBDENUM-TITANIUM CARBIDE SYSTEMS - MELTING POINTS, AND X-RAY & MICROSCOPIC DATA ON CAST, SINTERED, & ANNEALED ALLOYS - POWDER METALLURGY
N64-13698 05-07

MOLTEN NICKEL WETTABILITY OF PRESSED POWDERED CARBIDE ALLOYS - NIOBIUM & VANADIUM CARBIDES, AND NIOBIUM & TITANIUM CARBIDES
N64-13699 05-19

BORON, BORON CARBIDE, & TITANIUM CARBIDE FILAMENTS PRODUCED BY VACUUM DEPOSITION - TENSILE TESTING OF SELECTED FILAMENT MATERIALS
BMPR-1 N64-14676 06-19

SILICON CARBIDE AND TITANIUM CARBIDE FILAMENT STUDY BY VAPOR DEPOSITION TECHNIQUES
BMPR-2 N64-18902 11-19

SINTERING PROCESS MECHANISMS, STRUCTURE, AND MECHANICAL PROPERTIES OF TUNGSTEN AND TITANIUM CARBIDES
AROD-2262-6 N64-22333 15-19

SURFACE FAILURE OF TITANIUM CARBIDE CERMET AND SILICON CARBIDE BALL IN ROLLING CONTACT AT TEMPERATURES TO 2,000-DEG F
NASA-TN-D-2459 N64-27926 20-18

SINTERING OF IRON-BONDED TITANIUM CARBIDES AND DETERMINATION OF MECHANICAL PROPERTIES
N64-28095 20-18

X-RAY ANALYSIS OF RECRYSTALLIZATION OF BORIDES OF TITANIUM, ZIRCONIUM, AND MOLYBDENUM AND CARBIDES OF TITANIUM AND TUNGSTEN
JPRS-16059 N64-28632 20-07

POWDER METALLURGY OF SUPERALLOY BILLETS - BLEND OF MOLYBDENUM POWDER WITH TITANIUM AND ZIRCONIUM CARBIDE
ASD-7-911/VII/ N64-30902 22-18

DUCTILE-BRITTLE BEHAVIOR OF TITANIUM CARBIDE SINGLE CRYSTALS
PR-1 N64-31286 22-25

ELECTRICAL AND MECHANICAL PROPERTIES OF REFRACTORY METAL CARBIDES - CARBIDES OF TITANIUM, NIOBIUM, AND ZIRCONIUM
PR-2 N64-32517 23-25

TITANIUM COMPOUND
SYNTHESIS OF TITANIUM NITRIDE FROM PELLETS OF SPONGE TITANIUM N64-11011 02-19

PRODUCING NITRIDES OF REFRACTORY METALS - NIOBIUM, TITANIUM, TANTALUM, AND CHROMIUM
N64-11013 02-17

WETTING & IMPREGNATION OF TITANIUM AND ZIRCONIUM NITRIDE BRIQUETS BY MOLTEN COBALT AND NICKEL TO PRODUCE HEAT- AND WEAR-RESISTANT MATERIALS
N64-11481 03-18

TITANIUM HYDRIDE METAL TO CERAMIC SEAL
MATT-228 N64-12091 03-17

PREPARATION OF SODIUM CHLORIDE-TITANIUM LOWER CHLORIDE MELTS CONTAINING PREDOMINANTLY BIVALENT TITANIUM
BM-RI-6360 N64-14988 06-07

OPTIMUM TECHNIQUES FOR FABRICATION OF TITANIUM BORONITRIDE ROCKET NOZZLES
TR-371.9/6 N64-15381 07-27

TITANIUM BORONITRIDE ROCKET NOZZLE PRODUCTION TECHNIQUES
TR-371.9/7 N64-18198 10-27

TITANIUM ELECTROREFINING CELLS USING SODIUM CHLORIDE-TITANIUM CHLORIDE ELECTROLYTES
BM-RI-6432 N64-19226 11-17

CARBON REDUCTION OF RUTILE AND ILMENITE IN NITROGEN AND AMMONIA ATMOSPHERES - CONVERSION TO TITANIUM NITRIDE
BM-RI-6447 N64-22120 13-07

TITANIUM-ZIRCONIUM-MOLYBDENUM SYSTEM
EFFECTS OF POTASSIUM VAPOR ON CREEP-RUPTURE PROPERTIES OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOYS FOR SNAP 50/SPACE POWER UNIT REACTOR /SPUR/ PROGRAM
APS-5092-R N64-33532 24-18

MECHANICAL & PHYSICAL PROPERTIES OF TZM ALLOY SHEET AND TUNGSTEN SHEET
QPR-7 N64-33948 24-18

TITRATION
STANDARDIZED TITRATION OF OXYGEN AND NITROGEN WITH NITROGEN DIOXIDE AND NITROGEN OXIDE FOR GAS PHASE CONCENTRATION DETERMINATIONS
SR-4-3 N64-15751 07-24

TITRATION OF BORIC ACID IN AQUEOUS SOLUTION
UCRL-7756 N64-20271 13-07

OPTICAL MASERS, SEPARATIONS CHEMISTRY, MAGNETIC RESONANCE STUDIES, TITRATION, & PRECIPITATION PROCESSES
JPRS-24552 N64-20657 13-01

TWO QUANTITATIVE TITRATION METHODS FOR SELENIUM USING POTASSIUM IODIDE AND COPPER ANODE MUD
N64-20663 13-07

TOLERANCE
ONE-SIDED STATISTICAL TOLERANCE FACTORS
PWA-FR-781 N64-13221 04-21

RADIORESISTANCE OF THERMOTOLERANT STRAINS OF ESCHERICHIA BACTERIA N64-13696 05-19

HUMAN AND ANIMAL TOLERANCE OF HEAT
FTD-TT-63-650/1&4 N64-16383 08-19

SURFACE ROUGHNESS AND TOLERANCES IN MODELS FOR RADAR SCATTERING MEASUREMENTS N64-24320 17-09

RELATIONSHIP BETWEEN SPURIOUS RESPONSE AND MECHANICAL TOLERANCES & FABRICATION PROCESS TECHNIQUES - FILTER CRYSTAL DEVELOPMENT
REPT.-1 N64-28150 20-09

SHADE STANDARDS AND TOLERANCES IN BLUE WOOL-POLYESTER CLOTH
SEG-TDR-64-41 N64-32118 23-17

CUMULATIVE EFFECTS OF REPEATED EXPOSURE TO HIGH INTENSITY TONES UPON RECOVERY OF AUDITORY SENSITIVITY
AD-420856 N64-32375 23-14

TOLUENE
RADIATION EFFECTS ON SOLUTIONS OF STANNIC CHLORIDE IN TOLUENE
RTD-TDR-63-4133 N64-11749 03-07

PERFORMANCE DATA OF BENZENE-TOLUENE ROCKET PROPELLANT WITH NITRIC ACID OXIDIZER
DVL-300 N64-26283 18-13

SOLUBILIZATION OF POLAR COMPOUNDS IN TOLUENE SOLVENT BY SULFONES - ANALYZED BY GAS-LIQUID CHROMATOGRAPHY
NRL-6122 N64-29843 21-07

FAR INFRARED SPECTRA OF HALOGENATED TOLUENE, BUTADIENE, AND GLYOXAL MOLECULES
NL-TDR-64-158, PT. 1 N64-30931 22-07

TOOL
SA MACHINE TOOL
RESILIENT FRICTION GUIDE FOR FORWARD AND ROTATING MOTIONS OF MOVABLE TOOLS N64-13577 05-17

CERAMIC MOLDING DIES, LAYUP BLOCKS, AND HOT SIZING DIES
GMRI-660.03 N64-13887 05-17

PRODUCTION APPLICATION OF CERAMIC TOOLS
GMRI-660.02 N64-13888 05-15

TOOLS OF MODERN ASTRONOMERS N64-15277 07-05

MACHINABILITY OF HEAT RESISTANT STEELS & ALLOYS IN TURNING, MILLING, AND DRILLING WITH CARBIDE-TIPPED CUTTING TOOLS N64-17096 09-17

MELTING AND POURING OF RUST RESISTANT TOOL STEELS IN VACUUM INDUCTION FURNACES N64-18530 11-17

METHOD FOR TESTING HARDENABILITY OF HYPEREUTECTOID ALLOYED-TOOL STEELS
JPRS-24520 N64-20230 13-18

TOOL PROGRAM FOR MANUFACTURING OF HARDWARE FOR REACTOR IN-FLIGHT TEST /RIFT/ PROJECT
NASA-CR-56508 N64-29564 21-17

CONSTRUCTION TOOLS FOR ORTHOGONAL ARRAYS AND MAPPINGS
ARL-64-102 N64-33268 24-20

SOLDER AND PIANO WIRE TOOLS FOR CHAMFERING SMALL HOLES N64-33614 24-17

FIXTURE HOLDER FOR LATHE OR JIG BORE N64-33615 24-17

PRECISION LATHE MOUNTING RING N64-33616 24-17

TOOLING
CF MACHINING
TOOLING FOR VERY HIGH PRESSURE PRESSING
Y-DA-470 N64-13171 04-23

CONTROL OF TOOLING AND MACHINING OF JOINTS FOR REACTOR IN-FLIGHT TEST /RIFT/ PROJECT
NASA-CR-56360 N64-22443 15-17

MATERIAL SCIENCE - FABRICATION AND PRODUCTION OF TOOLS FROM PLASTICS
PLASTEC-15 N64-27859 19-19

PRECISION TOOLS, MACHINE TOOLS, AND MEASURING APPARATUS
NASA-SP-5013 N64-33608 24-17

TOOTH
HEMATOLOGIC CHANGES FOLLOWING TOOTH EXTRACTION
SAM-TR-63-82 N64-30498 22-16

CORTISONE ORAL GLUCOSE TESTS OF RELATIONSHIP OF TOOTH CAVITY INCIDENCE AND GLUCOSE LEVEL IN YOUNG ADULT MALE HUMANS
SAM-TDR-64-57 N64-32981 24-16

TOPOGRAPHY
SA MAPPING
SA SURFACE GEOMETRY
SA TERRAIN
CF GEODESY
TOPOGRAPHIC MAPS - KEY, ORGANIZATION OF SURVEY, USSR REGULATIONS, NEEDS IN USSR ECONOMY, AND USE IN ENGINEERING - CARTOGRAPHY
JPRS-19321 N64-10654 01-12

ORGANIZATION OF TOPOGRAPHIC-GEODETIC SURVEYS
JPRS-19739 N64-10659 01-12

THREE-DIMENSIONAL COLOR AERIAL PHOTOGRAPHY FOR TOPOGRAPHICAL AND GEOLOGICAL USE
JPRS-22032 N64-11266 02-12

COORDINATE SYSTEM FOR SURFACE REPRESENTATION OF TOPOGRAPHY OF EARTH SURFACE - CLIMATOLOGY N64-11605 03-21

OROGRAPHY OF NORTHERN HEMISPHERE EXPRESSED BY SPHERICAL FUNCTIONS
E-T-CH-63-8 N64-14363 06-12

LUNAR OBSERVATION FROM PHASE ANGLES OF MINUS 25 DEG. TO PLUS 25 DEG. WITH MOUNT WILSON 60-INCH TELESCOPE - LUNAR TOPOGRAPHY N64-15924 07-05

TOPOGRAPHIC LUNAR MAP WITH LISTING OF NAMED FEATURES N64-16443 08-05

SURFACE TOPOGRAPHY OF SINGLE CRYSTALS OF FACE-CENTERED-CUBIC, BODY-CENTERED-CUBIC, SODIUM CHLORIDE, DIAMOND, AND ZINC BLENDE STRUCTURES
NASA-TN-D-2275 N64-18960 11-25

TOPOGRAPHY AND ITS ISOSTATIC COMPENSATION ON FREE AIR GRAVITY ANOMALIES
REPT.-28 N64-20175 13-12

TOPOGRAPHY - GEOCENTRIC LATITUDE OF SPACE POINT
JPRS-25771 N64-26406 18-12

DEFLECTIONS OF VERTICAL DUE TO LARGE TOPOGRAPHIC MASSES IN NEAREST VICINITY OF POINT
AFCRL-64-320 N64-27943 19-12

LUNAR SURFACE TOPOGRAPHY N64-28406 20-29

ESTIMATION OF MEAN GRAVITY ANOMALIES FROM ISOSTATIC-TOPOGRAPHIC FEATURES AND LOWER DEGREE HARMONICS OF GRAVITY ANOMALY FIELD
AFCRL-64-574 N64-31990 23-12

TOPOLOGY
SA OROGRAPHY
ALGEBRAIC AND TOPOLOGICAL ASPECTS OF TOPICS FROM GROUP THEORY AND MODERN ANALYSIS
URPA-1 N64-10191 01-20

EXTREME POINTS OF FINITE AND CLOSED CONVEX SETS - TOPOLOGY N64-13422 05-20

TOPOLOGY OF MINIMAL RIEMANN SURFACES IN THREE-DIMENSIONAL EUCLIDEAN SPACE AND EUCLIDEAN SPACE OF ARBITRARY DIMENSION
TR-23 N64-14484 06-23

TOPOLOGY - USE OF FOUR COLORS ON EDGES OF REGULAR THREE-DEGREE GRAPH
ORC-63-28-/RR/ N64-14764 06-20

NORMALLY EMBEDDED SETS OF NORMAL TOPOLOGICAL SPACES
NASA-TT-F-193 N64-14938 06-20

METRICIZATION OF TOPOLOGICAL SPACE
NASA-TT-F-192 N64-14942 06-20

SUBDIVISION OF PLANES INTO FUNDAMENTAL REGIONS - THEORY OF PLANIGONS
E-T-R-63-9 N64-15375 07-20

STRONG AND WEAK REDUCIBILITY OF ALGORITHMIC PROBLEMS OF ALGEBRAIC, NUMBER THEORY, TOPOLOGY, AND MATHEMATICAL LOGIC SOLVABILITY.
JPRS-23760 N64-17246 09-20

SIMILARITY OF MATRICES WHOSE ELEMENTS LIE IN ARBITRARY COMMUTATIVE INTEGRAL DOMAINS
MRC-449 N64-17922 10-20

TOPOLOGICAL STRUCTURE OF ORDERED FAMILIES OF DISTRIBUTIONS
MRC-424 N64-18057 10-20

TOPOLOGICAL PROPERTIES OF COMPARTMENT SYSTEMS USED FOR TRACER AND DRUG KINETICS N64-18498 10-20

TOPOLOGICAL MATHEMATICS - COMPACTIFICATION THEORY ON HAUSDORFF SPACE LATTICES & HARMONIC FUNCTIONS
TR-26 N64-25089 17-20

TOPOLOGICAL NETWORK ANALYSIS AND METHOD OF TREE GENERATION
TR-9 N64-25352 17-20

INSOLUBILITY OF CERTAIN TOPOLOGICAL PROBLEMS
FTD-TT-64-466/1 N64-26124 18-20

CLIMATE, TOPOLOGY, LAND USE, AND ACCESSIBILITY OF THREE AREAS FOR POSSIBLE AIRPORT SITE
N64-27781 19-10

ASSOCIATION OF TOPOLOGICAL STRUCTURES WITH LINEAR ALGEBRAIC EQUATIONS USING SIGNAL FLOW GRAPHS
R-211 N64-28277 20-09

MINIMAL SURFACES AND TOPOLOGICAL STRUCTURES
AROD-1323-34 N64-32970 24-20

EQUIVALENCE OF CERTAIN HOMOLOGICAL DETERMINATIONS IN TOPOLOGY
FTD-MT-63-348 N64-33519 24-20

TOPSIDE PROGRAM
TOPSIDE HEIGHT DISTRIBUTION OF ELECTRONS DEDUCED FROM TOPSIDE SOUNDER IONOGRAMS N64-15171 07-12

TORCH
SOLID FUEL TORCHES FOR DISPERSING SUPERCOOLED FOGS NEAR GROUND N64-11841 03-21

TORNADO
ELECTROMAGNETIC INDUCTION THEORY OF THUNDERSTORMS APPLICABLE TO TORNADOS
JPRS-21343 N64-10324 01-21

WEATHER RADAR RESEARCH AND ANALYSIS OF HURRICANE AND TORNADO DYNAMICS
AFCRL-64-202 N64-16977 09-21

TORNADO-PRODUCING CLOUD MASS SEEN FROM TIROS I CORRELATED WITH SURFACE METEOROLOGICAL REPORTS
N64-17917 10-21

MECHANISM OF HOOK ECHO CLOUD FORMATION - PRELIMINARY MESOSYNOPTIC ANALYSIS OF TORNADO CYCLONE OF MAY 26, 1963 N64-18392 10-21

TOROID
MERIDIONAL CONTOURS OF TOROIDAL SHELLS FOR ELIMINATION OF BUCKLING FAILURE IN TOROIDAL PRESSURE VESSELS
ERR-AN-174 N64-10345 01-34

ANNOTATED BIBLIOGRAPHY ON STRUCTURAL STABILITY OF TOROIDAL SHELLS
SB-63-50 N64-12382 03-23

DESIGN OF FORCE-FREE TOROIDAL MAGNET
MATT-208 N64-22195 15-23

EQUILIBRIUM OF TOROIDAL PINCH IN MAGNETIC FIELD
FTD-TT-63-374/1&264 N64-22648 15-23

TOROIDAL INDUCTORS WITH DIRECT CURRENT BIAS
NASA-TN-D-2320 N64-23027 16-09

EQUILIBRIUM OF PLASMA IN TOROID WITH FINITE RESISTIVITY, INERTIA, AND DENSITY GRADIENT DRIFT
MATT-283 N64-26699 18-24

MATHEMATICAL ANALYSIS OF TOROIDAL SHELL AND ANNULAR PLATE COUPLING N64-28483 20-33

TOROIDAL SHELLS UNDER INTERNAL PRESSURE IN TRANSITION RANGE WHERE BOTH LINEAR BENDING AND NONLINEAR MEMBRANE THEORY APPLY
TR-19 N64-28563 20-33

FREE VIBRATIONS OF PRESTRESSED TOROIDAL MEMBRANE
NASA-CR-58532 N64-29556 21-33

MAGNETIZED PLASMAS - DEVELOPMENT OF DISTURBANCES AND SHOCK FORMATION, WAVE PROPAGATION, AND RADIATION IN TOROIDAL DISCHARGES
PIBMRI-1224-64 N64-29971 21-24

TORQUE
SA TWIST
CF FORCE
CF ROTATION
TORQUE LEVELS FOR LUBRICATED BEARINGS AT LOW TEMPERATURES & VARIOUS LOADINGS
NASA-CR-55268 N64-13399 04-17

SATELLITE CONTROL - MATHEMATICAL MODEL OF GRAVITY AND INTERNAL TORQUES ON EARTH-POINTING SATELLITE
AMTED-TN-52 N64-16976 09-20

EFFECTS OF MAGNETICALLY INDUCED EDDY-CURRENT TORQUES ON SPIN OF EARTH SATELLITE
NASA-TN-D-2198 N64-18956 11-29

SURFACE FINISH, APPLIED TORQUE, AND SURFACE FLATNESS OF TRANSDUCER AND MOUNTING BASE EFFECT ON VIBRATION TRANSDUCER SENSITIVITY
N64-20237 13-15

ELECTROMAGNETIC TORQUE OF TWO-PHASE ASYCHRONOUS MOTOR FOR AUTOMATIC CONTROL SYSTEMS
N64-23538 16-09

HUMAN REACTION TO TORQUE REQUIRED FOR SUPPORT OF MASS ON ROD WITH EXTENDED ARM AND HAND
TR-20 N64-27098 19-14

TORQUE-PRODUCING FORCES AFFECTING SATELLITE ORIENTATION - EXPLORER SATELLITE DATA
NASA-TR-R-183 N64-27362 19-33

WRINKLING OF STRETCHED MEMBRANE SUBJECTED TO TORQUE LOADING THROUGH ATTACHED HUB
NASA-TN-D-2456 N64-28336 20-33

TORQUE MOTOR
TORQUE MOTOR SIZE FOR USE ON ELECTROHYDRAULIC SERVOVALVE
NASA-CR-56670 N64-27317 19-06

FRAMELESS, SHIELDED FIELD, DIRECT CURRENT TORQUER
N64-31504 23-17

TORSION
SA TORSIONAL STRESS
CF FORCE
TORSIONAL MAGNETOELASTIC WAVES IN CIRCULAR CYLINDER IN MAGNETIC FIELD WITH & WITHOUT STEADY ELECTRIC FIELD
E-118.3 N64-14027 05-23

RELAXATION MODULUS FOR POLYISOBUTYLENE - MOLECULAR MECHANISMS OF TORSIONAL VIBRATIONS, INTERNAL ROTATION, AND GAUSSIAN SEGMENTS
AD-431939 N64-17314 09-19

VIBRATIONAL FREQUENCY OF FLEXIBLE WING WITH AILERON - TORSIONAL VIBRATION
FTD-MT-63-139 N64-18681 11-33

USE OF EOTVOS TORSION BALANCE FOR REDUCTION OF GEODETIC SURFACE DIFFERENCES
AFCRL-64-131 N64-20176 13-15

EVALUATION OF DYNAMIC PROPERTIES OF VISCOELASTIC SOLIDS BY FORCED LONGITUDINAL AND TORSIONAL VIBRATIONAL TECHNIQUES

RES. REPT.-122 N64-20349 13-23

CURVATURE AND TORSION OF ISOLATED VORTEX FILAMENT
ATN-64/9231/-4 N64-20824 14-24

TORSION OF ROUND SHAFTS WITH VARIABLE DIAMETER
RSIC-179 N64-21913 15-17

POST-BUCKLING BEHAVIOR OF CYLINDRICAL SHELLS STRESSED IN TORSION
NASA-TT-F-196 N64-22026 15-33

STRESSED STATE OF ROUND-SECTION FUSELAGE UNDER TORSION IN WING REGION N64-23071 16-33

CALCULATION OF BENDING AND TORSION OF CONICAL SHELLS BY VARIATIONAL METHOD N64-24632 17-34

NATURAL FREQUENCIES OF TWISTED NONROTATING AND ROTATING BLADES IN COUPLED BENDING AND TORSION
NASA-CR-65 N64-26033 18-03

STABILITY OF INTERNAL PRESSURIZED CONICAL SHELL UNDER TORSION
SSD-TDR-64-14 N64-26183 18-33

TORSION DAMPING CAPACITY OF THIN WIRE AND USE IN DAMPING LIBRATION OF GRAVITY GRADIENT SATELLITE
CM-1039 N64-26624 18-23

ELASTICITY SOLUTION OF FLEXURE, TORSION, AND BUCKLING OF MULTILAYERED BEAMS
MRC-483 N64-27718 19-20

APPROXIMATION OF MOTION OF SENSITIVE ELEMENT OF GYROCOMPASS WITH ELASTIC TORSIONAL SUPPORT N64-29145 21-15

TORSIONAL VIBRATIONS OF HOLLOW VISCOELASTIC CYLINDER
BRL-MEMO-1570 N64-30165 21-33

DETERMINATION OF ENERGY OF PULSED LASER BEAM BY TRANSFER OF PHOTON MOMENTUM TO BALLISTIC PENDULUM
NOLTR-63-82 N64-31247 22-25

TORSION MEASURING DEVICE FOR ROTATING BODIES
NASA-TT-F-9128 N64-31567 23-15

TORSIONAL VIBRATION OF SPHERE - SEISMIC WAVE ANALOG
AFCRL-63-916 N64-32392 23-12

TORSION OF HOLLOW BAR OF RECTANGULAR CROSS SECTION
TIL/T-5488 N64-33254 24-33

TORSIONAL STRESS
INTERNAL FRICTION DUE TO OXYGEN IN SINGLE CRYSTAL SILVER WIRE UNDER TORSIONAL STRESS
UCRL-11017 N64-10186 01-18

APPARATUS FOR DETERMINING CREEP AND RECOVERY OF GRAPHITE BY APPLYING TORSIONAL STRESSES TO THIN WALLED TUBES
COA-NOTE-MAT-1 N64-12021 03-19

FUSELAGE TORSIONAL TEST OF ALUMINUM ALLOY MONOCOQUE CYLINDERS
FTDM-2879 N64-15572 07-33

CREEP ANALYSIS OF CIRCULAR CROSS-SECTION TORSIONAL STRESS MEMBERS SUBJECTED TO NONPROPORTIONATE LOAD CHANGES
TR-6 N64-19979 12-33

TORSION OF ROUND SHAFTS WITH VARIABLE DIAMETER
RSIC-179 N64-21913 15-17

SHAPE FACTORS FOR TENSILE, BENDING, AND TORSIONAL STRESS COMPILED FOR SEVERAL SIMPLE NOTCH SHAPES
RSIC-213 N64-27049 19-33

CREEP IN METAL AT HIGH TEMPERATURES UNDER COMBINED TENSILE AND TORSIONAL STRESS N64-28499 20-33

EFFECT OF FLUID ENVIRONMENT ON TORSIONAL FATIGUE FAILURE
TR-64-GRX-10 N64-28813 20-10

TOUGHNESS
S FRACTURE TOUGHNESS

TOWED BODY
AERODYNAMIC STABILITY OF BILATERALLY SYMMETRICAL TOWED BODY
NOLTR-64-116 N64-30595 22-03

TOWER
S UMBILICAL TOWER

TOXICITY
BIBLIOGRAPHY OF LITERATURE OF DETECTION INSTRUMENTS USED TO MONITOR TOXIC GAS CONCENTRATION IN ATMOSPHERE
SID-63-755 N64-10137 01-18

DETECTION INSTRUMENTS FOR TOXIC GASES, VAPORS, AND DUSTS
JPRS-21771 N64-10205 01-18

CLINICAL EVALUATION OF BIOCHEMICAL TOXICITY OF MANGANESE OXIDES
JPRS-18698 N64-10504 01-16

VAPOR PRESSURE AND EVAPORATION RATE OF VARIOUS SUBSTANCES IN AIR AND DETERMINATION OF SAFETY HAZARDS OF TOXIC SUBSTANCES
FTD-TT-63-1044/1&2 N64-12626 04-23

PAPERS ON INDUSTRIAL SAFETY INCLUDING TOXIC AGENTS, CHRONIC IRRADIATION EFFECTS, AND X-RAY WORKERS SAFETY
JPRS-22154 N64-12747 04-16

MAXIMUM PERMISSIBLE CONCENTRATIONS OF NEW CHEMICAL GASES, VAPORS, DUSTS, AND AEROSOLS ALLOWING FOR INDUSTRIAL HYGIENIC SAFETY FROM TOXIC SUBSTANCES N64-12748 04-16

TOXICITY OF RAT BLOOD PLASMA DURING RADIATION SICKNESS N64-12783 04-16

TIME-CONCENTRATION EFFECTS OF OXYGEN TOXICITY IN MAN N64-12864 04-16

TOXIC CHEMICALS AND LABOR CONDITIONS IN CHEMICAL INDUSTRY
JPRS-23045 N64-14526 06-16

LACK OF PREDICTABILITY IN RATS TO EXHIBIT CHRONIC OXYGEN POISONING
NADC-MA-6324 N64-15363 07-16

BREAKDOWN AND TOXIC PROPERTIES OF MATERIALS USED IN SPACE VEHICLES OF APOLLO, MERCURY, GEMINI, AND DYNA-SOAR PROJECTS
AMRL-TDR-63-99 N64-17327 09-19

STRONTIUM 90 TOXICITY IN RAT EMBRYO
UR-639 N64-18348 10-16

DERMATOLOGICAL STUDIES AND CUTANEOUS TOXICITY OF CHEMICAL COMPOUNDS
AMRL-TDR-64-13 N64-18932 11-16

DETECTION TECHNIQUES AND ATMOSPHERIC DISPERSION OF TOXIC GASES AND AEROSOLS
SB-63-39 N64-20531 13-21

CAUSE OF DECREASE IN NATURAL RESISTANCE OF IRRADIATED ANIMALS TO LIVE BRUCELLOSIS VACCINE
JPRS-24896 N64-21282 14-16

BIOLOGICAL CONTAMINATION BY RADIOACTIVE ISOTOPES
FTD-TT-63-664/1 N64-22049 15-16

TOXICITY HAZARDS IN SOLID PROPELLANT OPERATION
ARS PAPER-2766-63 N64-22240 15-16

MECHANISM OF ACUTE TOXIC EFFECTS OF HYDRAZINE AND HYDRAZINE COMPOUNDS
AMRL-TDR-64-26 N64-22373 15-16

TOXIC GASEOUS SUBSTANCES DISCHARGED BY CHLORELLA
N64-23754 16-16

TOXIC GASEOUS PRODUCTS EXCRETED BY HUMANS ENCLOSED IN AIRTIGHT CHAMBER N64-23755 16-16

SYMPOSIUM ON TOXICITY IN NUCLEAR SUBMARINES AND MANNED SPACECRAFT
AD-440942 N64-24606 17-16

TOXICITY OF CONTAMINANTS IN NUCLEAR SUBMARINES
N64-24609 17-16

ENVIRONMENTAL TOXICITY OF SPACE CABIN ATMOSPHERE
N64-24616 17-16

CHEMICAL DETECTION METHODS TO EVALUATE TOXICITY IN CLOSED ECOLOGICAL SYSTEM N64-24618 17-07

TOXICITY OF ISOALCOHOLS, HIGHER ALCOHOLS, AND MELAMINE-FORMALDEHYDE RESINS
FTD-TT-64-97/1&4 N64-25462 17-16

HIGH OXYGEN ENVIRONMENT EFFECTS ON VISUAL MECHANISMS AND OCULAR PHYSIOLOGY
SAM-REVIEW-3-64 N64-26269 18-16

EFFECTIVENESS OF USING ENZYMES AS INDICATORS FOR TOXIC SUBSTANCE DETECTION
JPRS-25986 N64-27668 19-16

PATHOPHYSIOLOGY OF PULMONIC TOXICITY IN RATS BREATHING PURE OXYGEN AT REDUCED ATMOSPHERIC PRESSURE
NADC-ML-6403 N64-27953 20-16

ACUTE AND CHRONIC TOXICITY IN RATS FROM OXYGEN AT HIGH PRESSURE
NADC-MA-6331 N64-27954 20-16

RAPID SCREENING TECHNIQUE IN VIVO FOR METABOLIC STUDY OF CHEMICAL TOXICITY OF HYDRAZINE AND ITS DERIVATIVES IN RATS N64-28947 20-16

EFFECTS OF ARGININE, L-GLUTAMATE AND PYRIDOXINE ON TOXICITY OF AEROZINE
SAM-TDR-64-49 N64-31052 22-16

SPACE CABIN ATMOSPHERES - HIGH OXYGEN TENSION IN ANIMALS AND HUMANS, OXYGEN TOXICITY, AND DRUG THERAPY
NASA-SP-47 N64-31219 22-16

HANDLING OF HIGH ENERGY FUEL OXIDIZERS AND TOXIC MATERIALS IN CONFINED AREAS
NSL-64-244 N64-33368 24-17

COMPARATIVE EFFECT OF EQUIMOLECULAR SOLUTIONS, DISTILLED, AND VICHY WATER ON WATER TOXICITY
NASA-TT-F-9108 N64-33392 24-16

DISTURBANCE OF OSMOTIC TISSUE REGULATION IN WATER TOXICITY
NASA-TT-F-9110 N64-33393 24-16

WATER TOXICITY STUDIES - ERYTHROCYTE AND HEMOGLOBIN RESISTANCE, AND CARBON DIOXIDE CONTENT OF BLOOD PLASMA
NASA-TT-F-9125 N64-33401 24-16

TOXICOLOGY
SA INSECTICIDE
CF PHARMACOLOGY
TOXICOLOGY OF RADIOACTIVE MATERIALS
JPRS-21511 N64-10037 01-16

TOXICOLOGICAL INVESTIGATION OF OCCUPATIONAL MANGANESE POISONING
JPRS-17557 N64-10564 01-16

EXPERIMENTAL TOXICOLOGY OF CERTAIN ORGANIC PHOSPHORUS INSECTICIDES
JPRS-22450 N64-11874 03-16

INHIBITION BY X-RAYS & CHEMICAL AGENTS OF ENZYMES WHICH CATALYZE METABOLISM OF FOREIGN CHEMICALS IN MAMMALIAN TISSUE - TOXICOLOGY & IONIZING RADIATION
N64-13502 05-16

TRYPTOPHAN PYRROLASE ACTIVITY EFFECT IN BACTERIAL ENDOTOXIN POISONING IN MICE
AAL-TDR-63-13 N64-13662 05-14

VULNERABILITY OF CENTRAL NERVOUS SYSTEM TO CARBON MONOXIDE, CYANIDE, AND OTHER POISONING
N64-14595 06-16

RADIOBIOLOGY, BIOCHEMISTRY, PHARMACOLOGY, TOXICOLOGY, & RADIATION HAZARDS
UCLA-520 N64-15341 07-16

TOXICOLOGY - EFFECTS OF ENDRIN INSECTICIDE ON DOG CARDIOVASCULAR SYSTEM
CARI-63-16 N64-16541 08-16

BERYLLIUM TOXICOLOGY, SYMPTOMATOLOGY OF AFFECTIONS, AND INDUSTRIAL HYGIENE FOR BERYLLIUM PRODUCTION
FTD-TT-63-578/1&2 N64-22352 15-16

TOXICOLOGY OF VANADIUM TRIOXIDE DUST, GERMANIUM TETRACHLORIDE, AND ALIPHATIC AMINES
JPRS-25116 N64-23366 16-16

RELATIONSHIP OF TWO-PHASE TOXICITY AND THERMODYNAMIC ACTIVITY IN TOXICOLOGY
N64-23367 16-16

EFFECT OF VANADIUM TRIOXIDE DUST ON ORGANISM - TOXICOLGY N64-23368 16-16

TOXIC PROPERTIES OF GERMANIUM TETRACHLORIDE
N64-23369 16-16

TOXICOLOGY OF ALIPHATIC AMINES N64-23370 16-16

PHYSIOLOGICAL EFFECTS AND HUMAN TOLERANCES - INFLUENCE ON DESIGN OF LIFE SUPPORT SYSTEMS FOR SUBMARINES OR SPACECRAFT N64-24610 17-16

TOXICOLOGY - ACTION OF DRUGS ON ANIMALS
N64-24612 17-16

INHALATION HAZARDS OF EXPOSURE TO ATMOSPHERIC CONTAMINANTS N64-24615 17-16

PHARMACOLOGY & TOXICOLOGY OF DRUGS IN CLOSED ECOLOGICAL SYSTEMS N64-24617 17-16

DETECTION SYSTEM FOR MONITORING AIR FOR TOXIC COMPOUNDS IN CLOSED ECOLOGICAL SYSTEM
N64-24625 17-15

ABSORPTION BED, CATALYTIC BURNER, AND FILTERING SYSTEM FOR TRACE CONTAMINANT REMOVAL
N64-24626 17-16

MEDICAL PROBLEMS OF CREW HEALTH IN CLOSED ECOLOGICAL SYSTEM N64-24629 17-16

PATHOLOGY AND TOXICOLOGY OF REPEATED DOSES OF HYDRAZINE AND DIMETHYLHYDRAZINE IN MONKEYS AND RATS
AMRL-TDR-64-48 N64-29938 21-16

TOXICOLOGY OF RADIOACTIVE IRON
FTD-TT-64-599/1 N64-33943 24-16

TRACE CONTAMINANT
TRACE IMPURITIES IN ORGANIC MATERIALS DETERMINED BY NEUTRON ACTIVATION ANALYSIS
EUR-432.F N64-12475 04-23

GAS CHROMATOGRAPHIC ANALYSIS OF LOW MOLECULAR WEIGHT TRACE HYDROCARBONS PRESENT IN OXYGEN AND NITROGEN
WRE-TN-CPD-73 N64-15565 07-07

SEMIAUTOMATIC QUANTITATIVE DETERMINATION OF TRACE ELEMENTS IN BIOLOGICAL MATERIALS BY ACTIVATION ANALYSIS & STUDIES ON BIVALVE MOLLUSK
EUR-474.E N64-15672 07-16

MEASUREMENT OF TRACE CONCENTRATIONS OF AMMONIA IN

WATER
HW-79296 N64-15915 07-07

QUANTITATIVE ANALYSIS OF TRACE CONTAMINANTS TO PREVENT RADIATION HAZARDS
NASA-TM-X-54617 N64-16702 08-07

COMBUSTION-GRAVIMETRIC METHOD FOR MEASUREMENT OF TRACE AMOUNTS OF CARBON IN SODIUM METAL
LA-3035 N64-16934 09-07

CHROMATOGRAPHIC CONCENTRATION AND SPECTROGRAPHIC DETERMINATION OF CADMIUM, YTTRIUM, SCANDIUM AND LANTHANON TRACES IN URANIUM METAL
EUR-587.E N64-20878 14-07

HYDROCARBON TRACES IN ATMOSPHERE AND LIQUID OXYGEN
FTD-TT-62-1665/1&2&4 N64-22627 15-07

SPECTROPHOTOMETRIC DETERMINATION OF MICROGRAM QUANTITIES OF YTTRIUM IN TANTALUM
LA-3133 N64-33347 24-18

SPECTROPHOTOMETRIC METHOD FOR DETERMINATION OF TRACE AMOUNTS OF COBALT IN TANTALUM AND PLUTONIUM
LA-3124 N64-33468 24-07

TRACE ELEMENT
TRACE METAL - ESSENTIAL OR DETRIMENTAL TO LIFE
BNL-828-/T-323/ N64-21733 15-16

DYE METHOD FOR DETECTING TRACE AMOUNTS OF PROTEINS BY J-BAND ABSORPTION TECHNIQUE
NASA-CR-56534 N64-22795 16-07

TRACE ELEMENTS IN RADIATION DERMATITES
JPRS-25502 N64-25198 17-16

TRACE ELEMENT EFFECT ON MECHANICAL PROPERTIES OF REFRACTORY METALS N64-27583 19-18

DETERMINATION OF TRACE QUANTITIES OF URANIUM IN ALUMINUM - CHEMICAL SEPARATION AND SPECTROPHOTOMETER MEASUREMENT
K-1524 N64-28244 20-07

NEUTRON ACTIVATION ANALYSIS TECHNIQUES AND FACILITIES TO DETERMINE TRACE ELEMENTS
EUR-1601.E N64-29777 21-23

ANION EXCHANGE CHARACTERISTICS OF ELEMENTS IN NITRIC ACID AND NITRATE SOLUTIONS - APPLICATION TO TRACE ELEMENT ANALYSIS
ANL-6811 N64-30126 21-07

ESTIMATION OF TRACE IMPURITIES BY FLUORIMETRIC METHODS - LITERATURE SURVEY AND EXPERIMENTS WITH FLUORESCENCE REAGENTS AND SEPARATION TECHNIQUES
FTR/1/GE, PT. 1 N64-31322 22-07

ESTIMATION OF TRACE IMPURITIES BY FLUORIMETRIC METHODS - FLUORESCENCE REAGENT SELECTION AND INSTRUMENTATION
FTR/2/GE, PT. 2 N64-31323 22-07

STABILITY OF THYROID PROTEIN WITH REACTIVE IODINE AS RADIOACTIVE TRACE ELEMENT N64-32011 23-07

TRACER
MEDICINE AND PHYSIOLOGY - TRACER STUDIES OF MUSCLE FATIGUE AND MULTICHANNEL POTENTIOMETERS FOR PHYSIOLOGICAL MEASUREMENTS
JPRS-18339 N64-11041 02-01

ACTIVATION ANALYSIS USING OXYGEN-18 AND THERMAL NEUTRONS AS TRACERS N64-11202 02-23

HIGH PRECISION, HIGH RESOLUTION TRACER PHOTOGRAPHY FOR LOW NOISE, STEADY LAMINAR AIR FLOW MICROSCOPIC FLUCTUATIONS AT WALL BOUNDARY
TECH. REPT.-17 N64-11301 02-02

FRACTIONAL RELEASE OF TRACER ELEMENT THROUGH MOVING BOUNDARY
UCRL-11097 N64-14399 06-23

WEAR MEASUREMENT OF METAL SPECIMENS SUBMITTED TO CONSTANT CAVITATION FIELD BY USING RADIOTRACER TECHNIQUES
NASA-CR-53112 N64-16763 08-08

TOPOLOGICAL PROPERTIES OF COMPARTMENT SYSTEMS USED FOR TRACER AND DRUG KINETICS N64-18498 10-20

ANALYSIS OF DATA FROM BIOCHEMICAL AND PHYSIOLOGICAL TRACER EXPERIMENTS - LINEAR SYSTEM N64-19152 11-16

QUANTITATIVE MEASUREMENT OF FRACTIONAL RENAL BLOOD FLOW BY TRACER TECHNIQUES FOR EVALUATING RENAL ISCHEMIA
UCLA-12-523 N64-21215 14-16

USE OF RADIOTRACER TECHNIQUE FOR DETERMINING EFFECT OF PROCESS SOLUTION RESIDUES ON PRINTED CIRCUIT BOARD RELIABILITY
TID-20183 N64-21594 15-09

SUBMARINE SAND MOVEMENT STUDY BY GAMMA EMITTING TRACER - SILVER RADIOACTIVE ISOTOPE N64-23147 16-12

RADIOACTIVE TRACER RESULT ON MIXING OF POLAR & EQUATORIAL STRATOSPHERES N64-24478 17-21

OPTIMUM CONDITIONS FOR OBTAINING PLUTONIUM TRACER FROM NATURAL URANIUM IN CYCLOTRON N64-25557 17-07

FALLOUT MEASUREMENTS USING PLUTONIUM AND URANIUM TRACERS IN HIGH EXPLOSIVE DETONATIONS UNDER FIFTEEN FOOT GRAVEL COVERINGS
SC-R-64-127 N64-26696 18-23

RADIOTRACER AND ELECTRICAL CONDUCTIVITY MEASUREMENTS OF LUBRICATION INFLUENCE ON ROLLING CONTACT ENDURANCE
AL64T037 N64-27730 19-17

TRACER TECHNIQUE FOR LOW-LEVEL ATMOSPHERIC DISPERSION AND DEPOSITION EXPERIMENTS
BNL-859/T-343/ N64-28661 20-21

KRYPTON 85 AS UNIVERSAL TRACER ATOM
NYO-2457-3 N64-28671 20-07

CARBON AS TRACER FOR THERMAL DEGRADATION STUDIES OF POLYURETHANS
NASA-CR-58348 N64-28968 20-07

PHYSICS AND CHEMISTRY OF SOLIDS AND INTERFACES - TRACER METHODS
AECL-2003 N64-30376 22-07

PHYSIOLOGICAL VALUE OF RADIOISOTOPE - KINETIC BEHAVIOR OF TRACERS
BNL-857/T-341/ N64-30623 22-16

STRUCTURE AND ION EXCHANGE PROPERTIES OF MOLTEN SODIUM BORATE USING RARE RADIOACTIVE TRACERS
USNRDL-TR-760 N64-30880 22-07

DISTRIBUTION AND EXCRETION OF BETA-MERCAPTO-PROPYLAMINE, TAGGED WITH SULFUR-35, FROM BODIES OF MICE N64-31348 23-16

TRACER-SPARK TECHNIQUE FOR STUDY OF HYPERVELOCITY FLOW FIELDS
SUDAER-190 N64-32969 24-10

ION EXCHANGE CHARACTERISTICS OF MINERALS IN FUSED SODIUM NITRATES USING SODIUM 22, RUBIDIUM 86, CESIUM 137, AND BARIUM 133 AS TRACERS
USNRDL-TR-754 N64-33424 24-07

TRACHEA
RESPIRATORY PHYSIOLOGY OF VIBRATIONS OF VOCAL CORDS FROM TRACHEAL OUTER WALL VIBRATIONS
E-T-J-63-4 N64-12277 03-23

TRACHEA OCCLUSION IN RATS BREATHING OXYGEN AND EFFECT OF BAROMETRIC PRESSURE ON LUNG MORPHOLOGY N64-17954 10-16

TRACK
CALCULATOR FOR APPROXIMATING GROUND TRACKS OF SATELLITES IN NEAR CIRCULAR ORBITS
RM-3741-PR N64-14085 05-29

ELECTRONIC AND PHOTOGRAPHIC EQUIPMENT FOR CALIBRATION OF MINITRACK STATIONS
TR-48 N64-29248 21-08

TRACKER DEVICE
DESIGN OF DIGITAL COMMAND SYSTEM FOR ROTATING SLAB SUN TRACKER
NASA-TM-X-51004 N64-12162 03-22

MISSILE LIFT-OFF MEASUREMENT SYSTEM - ALL-WEATHER, NUCLEONIC, HIGH PRECISION TRACKER
RADC-TDR-63-535 N64-31907 23-10

TRACKING
SA MISSILE TRACKING
SA RADAR TRACKING
SA TARGET DISCRIMINATION
FUNDAMENTAL ACCURACY LIMITATIONS OF MOBILE TRACKING SHIPS - NAVIGATION SYSTEMS
AGARD-407 N64-10073 01-10

ORBITAL TRACKING OF GEOSTATIONARY SATELLITE - THEORY & METHODS
NASA CR-52204 N64-10087 01-08

ATMOSPHERIC AND METEOROLOGICAL RESEARCH - SOUNDING ROCKETS AND TRACKING ACTIVITIES FROM ARGENTINA AND PHILIPPINES
A/AC.105/11/ADD.3 N64-10434 01-01

SEMIAUTOMATIC TELESCOPE FOR SATELLITE TRACKING WITH PRECISE GUIDANCE UNDER MANUAL CONTROL
N64-10721 02-08

MINIMUM VARIANCE PRECISION TRACKING AND ORBIT PREDICTION PROGRAM
NASA-CR-52872 N64-11329 02-29

AUTOMATIC RADAR GROUND STATION FOR MEASURING COORDINATES OF GROUND TARGETS
JPRS-22384 N64-11919 03-06

BAYESIAN INFERENCE APPLIED TO TRACKING PROBLEM - CURRENT MEAN OF NORMAL DISTRIBUTION SUBJECTED TO CHANGES IN TIME
TR-91 N64-13092 04-20

SPACE EXPLORATION - BALLOONS, SOUNDING ROCKETS, SATELLITES, TRACKING & TELEMETRY STATIONS, & SUPPORTING ACTIVITIES N64-13450 05-01

AUTOMATIC LATITUDE COMPASS WITH GYROSCOPE
N64-13574 05-22

MULTIRANGE AUTOMATIC BRIDGE AND POTENTIOMETER WITH MEASURING SYSTEM FOR RESISTANCE THERMOMETER AND THERMOCOUPLE GROUPS N64-13581 05-15

REAL TIME TRACKING & ORBIT PREDICTION PROGRAM FOR CIRCULAR, ELLIPTICAL, & HYPERBOLIC ORBITS WITH PERTURBATION FORCES
NASA-TM-X-51488 N64-14743 06-29

RADIO TELESCOPE OBSERVATION OF SOLAR CORONA, AND TRACKING STARS OF POLAR REGION N64-15268 07-05

PROPER MOTIONS OF STARS OF POLAR REGION USED IN POLAR TUBE OF TOKYO ASTRONOMICAL OBSERVATORY - STAR TRACKING N64-15270 07-05

OPTICAL STATIC-SPLIT RECEIVER FOR LUNAR TRACKERS IN SATELLITES AND SOUNDING ROCKETS
N64-15476 07-15

TELEMETRY, COMMUNICATIONS, GUIDANCE, TRACKING, AND ELECTRONICS FOR SPACE APPLICATIONS
N64-16151 08-08

APOLLO PROJECT LUNAR EXPLORATION COMMUNICATIONS AND TRACKING N64-16176 08-08

ESTIMATING BALLISTIC MISSILE ATTITUDE DURING POWERED FLIGHT PERIOD FROM TRACK AND RATE OBSERVATIONS
SSD-TDR-63-292 N64-16446 08-30

DETERMINATION OF TRACKING STATION LOCATIONS BY DOPPLER AND RANGE MEASUREMENTS TO EARTH SATELLITE
NASA-CR-53196 N64-17226 09-29

SATELLITE ORBIT DETERMINATION BY ANGULAR MEASUREMENT
SSD-TDR-63-259 N64-18027 10-29

STATION LOCATIONS FOR LOW ALTITUDE SATELLITE TRACKING NEAR EQUATORIAL ORBITS
SSD-TDR-64-27 N64-18223 10-10

TIME ADJUSTMENT AND AMBIGUITY RESOLUTION OF MINIVAR INPUT DATA - TRACKING DATA
N64-18230 10-08

FEASIBILITY OF TRACK-WHILE-SCAN NAVIGATION SYSTEM AND FORMAT FOR COMPUTER DATA PROCESSING
NASA-CR-53515 N64-19256 11-20

MATHEMATICAL STUDY OF PURSUIT TRACKING OF TARGET IN N-DIMENSIONAL EUCLIDEAN SPACE
NASA-CR-53837 N64-19587 12-20

NONLINEAR ADAPTATION OF HUMAN OPERATOR IN PURSUIT TRACKING SYSTEM
NASA-CR-53879 N64-19955 12-14

COMPUTER PROGRAM FOR SIMULATION OF ONBOARD DATA PROCESSOR FOR TRACK-WHILE-SCAN NAVIGATION CONCEPT
NASA-CR-53513 N64-20006 13-20

TRACKING PERFORMANCE OF MERCURY PROJECT ACQUISITION AID
IEEE-PAPER-63-58 N64-20497 13-08

SATELLITE OBSERVATIONS FROM TRACKING STATION THEODOLITE FILMS N64-21197 14-08

TRACKING MISSILES AND SPACE VEHICLES - ANNOTATED BIBLIOGRAPHY
AID-P-64-36 N64-22289 15-08

AIRBORNE INSTRUMENTATION PLATFORM FOR SATELLITE AND SPACECRAFT TRAJECTORIES
ESD-TDR-64-182 N64-22972 16-08

TRACK-VEHICLE MISSILE SYSTEM DYNAMIC ENVIRONMENT DATA ACQUISITION AND APPLICATION
N64-23155 16-10

LUNAR SATELLITE TRACKING AND ORBIT CALCULATION
NASA-CR-56279 N64-23944 16-32

TRACKING TARGET SEEKERS & HOMING DEVICE
N64-24600 17-22

MICROWAVE TRANSMITTERS, ANTENNA, AND TRACKING RECEIVERS OF DYNA-SOAR SPACE GLIDER COMMUNICATION SYSTEM
CR-64-408-34.3-1 N64-25747 17-08

AUTOMATIC STAR IDENTIFICATION - COMPUTER PROGRAM
BRL-MEMO-1535 N64-26863 18-20

INSTRUCTION MANUAL FOR AIRBORNE RANGE AND ORBIT DETERMINATION /AROD/ VEHICLE TRACKING RECEIVER
NASA-CR-56951 N64-27308 19-08

MODEL MATCHING TECHNIQUES FOR DETERMINATION OF HUMAN PERFORMANCE IN TWO-AXIS TRACKING TASK
NASA-CR-56372 N64-27833 19-08

REDUCED CAMERA OBSERVATIONS OF ARTIFICAL SATELLITES FOR OBTAINING COEFFICIENTS OF TESSERAL AND SECTORIAL HARMONICS OF GEOPOTENTIAL AND FOR CORRECTIONS TO TRACKING STATION COORDINATES
N64-28121 20-05

TRACKING AND DATA ACQUISITION FOR RANGER MISSIONS ONE THROUGH FIVE
NASA-CR-58537 N64-28759 20-10

EDITING TRACKING DATA FOR IBM 7094 COMPUTER PROGRAM FOR ORBIT DETERMINATION

NASA-CR-58488 N64-29203 21-08

SUMMARY REPORT TO CONGRESS ON NASA PROGRAMS - DATA ACQUISITION, MANNED SPACE FLIGHT, NUCLEAR POWER & PROPULSION, SATELLITE APPLICATIONS, TRACKING, AND INTERNATIONAL COOPERATION N64-29539 21-01

SIMULATED ENVIRONMENTAL TESTING OF BINARY DELAY LOCK TRACKING DISCRIMINATOR
REPT.-6-74-64-18 N64-29880 21-08

TRACKING FEASIBILITY, LUNAR TRANSPONDER DESIGN AND FABRICATION, AND LUNAR IMPACT POINT MARKER
GD/A-63-0933 N64-30200 21-15

FREQUENCY TRACKING SQUARE WAVE OSCILLATOR FOR SATURN LAUNCH VEHICLES
NASA-TR-R-208 N64-30612 22-09

SIMULTANEOUS TRACKING OF ECHO I SATELLITE FOR GEODETIC PURPOSES - CELESTIAL TRIANGULATION
NASA-TT-F-8954 N64-30847 22-08

DESIGN MODIFICATIONS TO LUNAR TRANSPONDER AND FEASIBILITY OF EARTH-BASED TRACKING STATIONS
GD/A-63-0933, VOL. 2 N64-30901 22-08

EQUATIONS FOR CONVERTING TO GEOCENTRIC COORDINATES FROM GEODETIC COORDINATES
TG-511 N64-31173 22-12

AVERAGING REDUNDANT MEASUREMENTS FOR MAXIMUM PRECISION OF ERROR-CORRELATED TRACKING VECTORS
PMR-TM-63-12 N64-31262 22-20

MOTION AND NET DRAG COEFFICIENTS OF FREE MOVING SPHERES - BALLOON WIND SENSORS
NASA-TM-X-53089 N64-31549 23-04

ELECTRONIC TRACKING ERRORS GENERATED BY REENTRY AND FLAME PLASMA EFFECTS
TM-3865 N64-31891 23-08

DOCUMENTATION OF SATURN PROJECT RADIO FREQUENCY & TELEMETRY CHECKOUT PROCEDURES FOR TRACKING FACILITY
NASA-CR-58964 N64-33193 24-08

DESIGN, COMPUTER SIMULATION, AND FEASIBILITY OF TRACK-WHILE-SCAN NAVIGATION CONCEPT
NASA-CR-59297 N64-33335 24-22

UPPER EXTREMITY PROSTHETICS, SENSORY MOTOR CONTROL AND HUMAN PERFORMANCE IN TRACKING
REPT.-64-30 N64-33689 24-14

TRACKING ANTENNA
MISSILE-BORNE TRACKING ANTENNA - TESTS OF ANTENNA TYPES
RG-TR-63-20 N64-13807 05-08

SHIP-BASED COMMUNICATIONS AND TRACKING ANTENNAS
N64-16169 08-10

ANTENNA SELECTION FOR SATELLITE COMMUNICATIONS GROUND STATIONS N64-18244 10-09

COMPUTER SPECIFICATIONS FOR USE IN ANTENNA CONTROL AND DATA PROCESSING AT SATELLITE COMMUNICATIONS SYSTEM GROUND STATIONS N64-18246 10-20

TRACKING ACCURACY OF ANTENNA OF RAWIN SET AN/GMD-2
AFCRL-63-211 N64-19646 12-08

AUTOMATIC DOPPLER CONTROL FOR ANTENNA POINTING SYSTEM
GR-1964-35 N64-29731 21-08

MODULATION, ANTENNA, ACQUISITION AND TRACKING, AND LOW-NOISE RECEIVING SYSTEMS FOR TRANSPORTABLE GROUND STATION IN SPACE COMMUNICATION SYSTEM
REPT.-64-15 N64-31427 23-10

EDDY CURRENT CLUTCH DRIVES FOR TRACKING ANTENNA SYSTEM
NASA-TM-X-55084 N64-33620 24-08

TRACKING FILTER
EFFECT OF COHERENT RADAR DOPPLER TRACKING LOOP FILTER CHARACTERISTIC IN REDUCING ERRORS DUE TO FREQUENCY INSTABILITY IN RADAR TRANSMITTER
QPR-7 N64-25614 17-08

NARROW BAND PHASE-LOCK TRACKING FILTER
NASA-TM-X-55020 N64-27254 19-08

TRACKING RADAR
CODING FOR TRACKING RADAR RANGING
AD-416649 N64-14028 05-08

COMPUTER DESIGN AND PROGRAMMING FOR DATA PROCESSING LINK BETWEEN TRACKING RADAR PROGRAMMER AND CONTROL CENTER
RADC-TDR-63-494 N64-21232 14-08

INSTRUMENTATION OF TRACKING RADAR FOR DIRECT RECORDING OF RADAR CROSS SECTION
N64-24728 17-08

RECEIVER, TRANSMITTER, ANTENNA FEED, AND REFLECTOR FOR RADAR TRACKING STATION OPERATING IN L BAND
ESD-TDR-64-53 N64-29618 21-08

RECEIVER, TRANSMITTER, ANTENNA FEED, AND REFLECTOR FOR RADAR TRACKING STATION OPERATING IN L BAND - ILLUSTRATIONS
ESD-TDR-64-54 N64-29619 21-08

BORESIGHT ERROR IN VARIOUS MONOPULSE TRACKING RADAR SYSTEMS
GE/EE/63-18 N64-31152 22-09

CONTINUOUS WAVE RADAR TRANSMITTER FOR SPACECRAFT TRACKING AND COMMANDING, AND RECEPTION OF TELEMETRY AND TELEVISION SIGNALS
NASA-CR-58801 N64-32997 24-08

TRACKING SYSTEM
SA GLOBAL TRACKING NETWORK /GLOTRAC/
DOPPLER RADIO TRACKING SYSTEM AND TRAJECTORY CALCULATIONS FOR SMALL ROCKETS OF NIKE-CAJUN SIZE
FFIT-E-14 N64-12252 03-08

CALIBRATION OF TRACKING SYSTEMS USING SATELLITE & ROCKET PROGRAMS - FEASIBILITY STUDY
AFCRL-63-789 N64-12296 03-08

SATELLITE TRACKING, TELEMETRY, & COMMAND SYSTEMS
SSD-TDR-63-334, VOL. 1 N64-15062 07-08

MISTRAM TRACKING SYSTEM - PRECISION MEASURING SUB-SYSTEM AND DATA REDUCTION N64-15315 07-08

GEOGRAPHICAL CONFIGURATION & ELECTRONIC EQUIPMENT OF GLOBAL TRACKING NETWORK N64-15316 07-09

TRACKING, TELEVISION, AND INFRARED RADIOMETER SUB-SYSTEMS OF TIROS SATELLITES
NASA-TM-X-54565 N64-15859 07-32

COMPARISON OF CONICAL SCAN, AMPLITUDE MONOPULSE, & PHASE MONOPULSE TRACKING SYSTEMS
EDL-M541 N64-17644 09-08

GLOTRAC - GLOBAL TRACKING NETWORK
N64-18403 10-08

REVISIONS FOR TRACK-WHILE-SCAN NAVIGATION SYSTEMS REFORMULATION OF LEAST SQUARES NAVIGATION COMPUTATION AND ERROR ANALYSIS
NASA-CR-53651 N64-18499 10-22

PERFORMANCE OF HUMAN OPERATORS OF TRACKING SYSTEMS
AD-428192 N64-19909 12-14

NONLINEAR ADAPTATION OF HUMAN OPERATOR IN PURSUIT TRACKING SYSTEM
NASA-CR-53879 N64-19955 12-14

TRACKING SIMULATOR PERFORMANCE - EFFECTS OF ERROR MAGNIFICATION, FIELD OF VIEW, PROPRIOCEPTIVE CUES, AND CONTROL DYNAMICS
TR-20 N64-20411 13-10

HELICOPTER MAIN ROTOR BLADE TRACKING DEVICE
NAVTRADEVCEN-9U96-2 N64-21572 13-15

DATA ACQUISITION & TRACKING ANALYSIS OF X-20

AIRCRAFT COMMUNICATIONS & TRACKING SUBSYSTEM
CR-64-408-28-1 N64-21985 15-08

DEEP SPACE INSTRUMENTATION FACILITY /DSIF/ SPACECRAFT TRACKING PERFORMANCE DURING RANGER IV LUNAR PROBE MISSION
NASA-CR-56559 N64-23520 16-22

PERFORMANCE PREDICTION AND ERROR ANALYSIS OF DOPPLER TRACKING SYSTEM
SSD-TDR-63-339 N64-24186 16-08

MATHEMATICS FOR RADAR RESOLUTION STUDIES AND ANALYSIS OF CON-SCAN TRACKING SYSTEM
REPT.-00.460 N64-24984 17-08

AIRBORNE ELECTRONIC EQUIPMENT FOR X-20A AIRCRAFT COMMUNICATIONS AND TRACKING SUBSYSTEM
CR-64-408-34.2-1 N64-25129 17-08

COMMUNICATIONS AND TRACKING SUBSYSTEM FOR X-20A AIRCRAFT
CR-64-408-35-1 N64-25366 17-04

FEASIBILITY OF SELF-CALIBRATION OF TRACKING SYSTEMS
AFCRL-64-441 N64-26243 18-08

SWITCHING CONDITIONS IN COMBINED TRACKING SYSTEMS WITH VARIABLE STRUCTURE N64-26392 18-09

METEOROLOGICAL PHENOMENA AND ERRORS IN RADIO INTERFEROMETER TRACKING SYSTEMS
CRL-2818-1, PT. 1 N64-27477 19-08

PHOTOGRAPHIC AND RADAR TRACKING OF SHOTPUT III SOUNDING ROCKET
NASA-CR-56950 N64-27832 19-15

COMPUTER PROGRAMMING ANALYSIS FOR ORBIT DETERMINATION BASED ON MINIMUM VARIANCE TECHNIQUE FOR PROCESSING TRACKING DATA
NASA-TM-X-51928 N64-28830 20-29

INPUT AND OUTPUT REQUIREMENTS FOR COMPUTER PROGRAM FOR ERROR ANALYSIS OF TRACKING SYSTEMS
NASA-TM-X-55052 N64-28931 20-08

IMPROVING MEASUREMENT ACCURACY OF MISSILE TRAJECTORIES FROM TRACKING SYSTEMS - ACCURACY OF TRACKING AT ATLANTIC MISSILE RANGE N64-29102 21-08

EVOLUTION OF GLOBAL TRACKING NETWORK N64-29103 21-08

TRACKING SYSTEM REQUIREMENTS AND DESIGN OF OPTIMIZED TEST REGIME FOR EVALUATING BALLISTIC MISSILE INERTIAL GUIDANCE SYSTEMS IN FLIGHT TEST N64-29104 21-08

COMPARISON OF INERTIAL GUIDANCE DATA WITH RANGE TRACKING DATA N64-29106 21-08

LEAST SQUARES PROCEDURE FOR ANALYSIS OF TRACKING SYSTEM ACCURACY
NASA-TM-X-55048 N64-29191 21-08

CALCULATING APPARENT ELEVATION ANGLE FOR TROPOSPHERIC TARGET FROM SPECIFIED VALUES OF GEOMETRICAL ELEVATION ANGLE AND HEIGHT
ERDA-67 N64-31190 22-08

APPLICATION OF AMPLITUDE MODULATION TO ALTERNATE CURRENT TRACKING SYSTEMS N64-31856 23-08

CONCENTRATOR, HEAT RECEIVER, ORIENTATION SYSTEM, AND TRACKING RIG FOR SOLAR MECHANICAL ENGINE
CDRD-63-5038 N64-32043 23-27

BIBLIOGRAPHY ON HUMAN PERFORMANCE IN TRACKING SYSTEMS
CAL-131 N64-32606 23-14

TRAFFIC CONTROL
SA AIR TRAFFIC CONTROL
DIGITAL DATA COMMUNICATIONS SYSTEM BASED ON DISTRIBUTED NETWORK - TRAFFIC PRECEDENCE AND OVERLOAD - RAND PROJECT
RM-3638-PR N64-33229 24-08

TRAIL
S METEOR TRAIL

TRAILBLAZER I REENTRY VEHICLE
FLIGHT TESTS OF TRAILBLAZER I REENTRY VEHICLES
NASA-TN-D-2189 N64-18730 11-30

FLIGHT TEST OF TRAILBLAZER I REENTRY VEHICLE AND PRODUCTION OF ARTIFICIAL IRON METEORS
NASA-TN-D-2270 N64-19227 11-30

CALIBRATED RADAR DATA FROM TRAILBLAZER I REENTRY VEHICLE
RP-5 N64-32187 23-08

TRAILBLAZER MISSILE
WIND-COMPENSATION METHOD AND APPLICATION TO FLIGHT TESTS OF TRAILBLAZER MISSILES
NASA-TN-D-2053 N64-18077 10-32

TRAILER
SOLUTIONS FOR LATERAL STABILITY OF CARGO TRAILER TRAINS
AR-467-A N64-14976 06-10

TRAILING EDGE
BOUNDARY LAYER DRAG OF BODIES WITH SWEPT TRAILING EDGES IN SUPERSONIC FLOW
ARC-CP-699 N64-10241 01-11

LONGITUDINAL STABILITY OF LOW ASPECT RATIO WINGS HAVING VARIATIONS IN LEADING- AND TRAILING-EDGE CONTOURS
NASA-TN-D-1796 N64-31222 22-03

TRAINER
CZECHOSLOVAKIAN JET TRAINER
FTD-TT-63-218/1 N64-16952 09-04

EFFECTIVENESS OF VARIOUS PRESENTATION MODES ON TRAINER DISPLAY FOR SERIAL LEARNING OR PROBLEM SOLVING
AD-439648 N64-30499 22-14

TRAINING
SA FLIGHT SIMULATION
SA INSTRUCTION
SA MEMORY
SA SIMULATOR TRAINING
CF BEHAVIOR
CF LEARNING
THEORETICAL TRAINING METHODS FOR RADIO ENGINEERS
JPRS-19999 N64-10592 01-14

EXPERIMENTS IN PERT AUTOMATED TRAINING IN DECISION MAKING
ESD-TDR-63-606 N64-11762 03-01

ELECTROCARDIOGRAMS IN EVALUATING STATE OF ATHLETIC TRAINING AND PHYSICAL TRAINING METHODS
JPRS-22508 N64-12142 03-16

PREPARATION OF PROGRAMMED INSTRUCTION FOR AUTOMATED TRAINING IN DECISION MAKING - PERT PROGRAM
ESD-TDR-63-608 N64-12319 03-14

HEALTH PROGRAM FOR PROVIDING BURN THERAPY TO VICTIMS OF NATIONAL ATOMIC DISASTER - TRAINING OF ALLIED HEALTH PERSONNEL
AD-426228 N64-14324 06-16

SCREENING TECHNIQUES, TRAINING STANDARDS, AND SUCCESS PROBABILITIES FOR AVIATION TRAINEES AND CANDIDATES N64-15105 07-14

COMPUTER FACILITY AND TRAINING PROGRAM AT INTERNATIONAL METEOROLOGICAL CENTER - PROGRAM FOR SHIP WEATHER REPORTS AND RADIOSONDE PROCESSING N64-16304 08-13

EFFECTS OF MODIFIED TASK FEEDBACK DURING TRAINING ON PERFORMANCE OF SIMULATED ATTITUDE CONTROL TASK AFTER THIRTY DAYS
AMRL-TDR-63-125 N64-16811 08-14

LONG TERM SKILL TRANSFER AND FEEDBACK CONDITIONS

DURING TRAINING AND REHEARSAL
AMRL-TDR-63-136 N64-16813 08-14

EFFICIENCY OF TRAINING OF PERCEPTRON IN PATTERN RECOGNITION
RADC-TDR-64-33 N64-19063 11-20

QUEUING MODEL FOR DETERMINING MANPOWER AND TRAINING - HUMAN ENGINEERING
AMRL-TDR-64-21 N64-19101 11-14

PROFICIENCY TEST FOR TECHNICIANS MAINTAINING TELEMETERING GROUND STATION EQUIPMENT - OPERATOR PERFORMANCE
ND-64-37 N64-21373 14-14

BIBLIOGRAPHY ON ENGINEERING PSYCHOLOGY, TRAINING PSYCHOLOGY, ENVIRONMENTAL STRESS, SIMULATION TECHNIQUES, AND PHYSICAL ANTHROPOLOGY
AD-600804 N64-22515 15-14

CUEING AS TRAINING METHOD FOR SIMPLE AUDITORY DETECTION TASKS
NAVTRADEVCEN-3143-1 N64-22518 15-14

CHIMPANZEE TRAINING TECHNIQUES FOR CONTINUOUS AVOIDANCE TASK
ARL-TDR-64-7 N64-22697 15-16

DIGITAL COMPUTERS FOR REAL TIME TRAINING SIMULATION
AMRL-TDR-64-22 N64-23971 16-20

TRAINING PLAN FOR PERSONNEL TO MONITOR FLIGHT CONTROL SYSTEM FOR DETECTING SLOW MALFUNCTION PROBLEMS N64-25355 17-16

DEVELOPMENT OF TASK ANALYSIS METHOD AS PART OF TRAINING PROGRAM
NAVTRADEVCEN-1218-1 N64-29247 21-14

TRAINING, MOTIVATION, AND HUMAN ENGINEERING
AD-446448 N64-29918 21-14

DESCRIPTION BY COSMONAUT OF TRAINING AND FLIGHT IN VOSTOK III SPACECRAFT
FTD-TT-64-160/162 N64-30154 21-32

LOGIC DIAGRAMS IN PLANNING AND ORGANIZATION OF TRAINING PROCESS N64-30219 22-14

ADVANCED AIRCRAFT SIMULATOR FOR PILOT TRAINING
NASA-RP-337 N64-31214 22-10

TRAINING OF SOVIET ASTRONAUTS - SIMULATED FLIGHT ENVIRONMENT
JPRS-26762 N64-31440 23-14

AUTO-INSTRUCTIONAL PROGRAM OF FIRST WEEK OF BASIC ELECTRONICS COURSE
AD-601681 N64-31702 23-09

RESPONSE AND FEEDBACK TECHNIQUES FOR AUTOMATED TRAINING OF VISUAL IDENTIFICATION SKILLS
NAVTRADEVCEN-789-3 N64-32037 23-14

PERSONNEL TRAINING PROGRAM DEVELOPMENT
HUMRRO-RB-11 N64-32681 23-14

BIBLIOGRAPHY ON PROFICIENCY MEASUREMENT FOR TRAINING QUALITY CONTROL
AD-448362 N64-32813 24-14

ONBOARD TRAINING FOR MAINTAINING PILOT PROFICIENCY FOR EXTENDED SPACE FLIGHTS
NASA-TN-D-2162 N64-33080 24-14

RUSSIAN COSMONAUT REENTERS SPACE FLIGHT TRAINING - WORKING DAY DESCRIPTION - PARACHUTE JUMPS
FTD-TT-64-149/164 N64-33669 24-14

TRAINING OF SCIENTISTS IN USSR
JPRS-27116 N64-33855 24-14

TRAINING AIRCRAFT
CF AIRCRAFT
ACCELERATION RESPONSE OF JET TRAINER AIRCRAFT TO RUNWAY ROUGHNESS
NASA-TN-D-2203 N64-20189 13-10

TRAINING EQUIPMENT
SA FLIGHT SIMULATOR
ASTRONAUTS ROLE IN SPACE PROGRAM - TRAINING EQUIPMENT AND SPACECRAFT MANEUVERS
JPRS-20100 N64-11133 02-14

PORTABLE AUDIOVISUAL EQUIPMENT AS AIDS TO TRAINING IN REMOTE AREAS AND FOR INSTRUCTIONAL TECHNIQUES INDEPENDENT OF WRITTEN LANGUAGE
AMRL-TDR-63-91 N64-14368 06-10

CLOSED CYCLE ENVIRONMENT SIMULATION TRAINING EQUIPMENT
NAVTRADEVCEN-1097-1 N64-25378 17-06

INSTRUMENTATION FOR AIRCRAFT PILOT TRAINING IN SPECIAL WEAPON DELIVERY TECHNIQUES
NOTS-TP-3346 N64-26235 18-14

IMPROVING PROFICIENCY OF FIRE CONTROL TECHNICIANS BY USE OF TRAINING AIDS
NAVTRADEVCEN-1105-1 N64-29280 21-14

TRAJECTORY
SA ASCENT TRAJECTORY
SA BALLISTIC TRAJECTORY
SA FLIGHT PATH
SA INTERPLANETARY TRAJECTORY
SA MISSILE TRAJECTORY
SA SPACECRAFT TRAJECTORY
CF PATH
SET THEORY TREATMENT OF PLANAR ORBITS AND TRAJECTORIES
NASA-CR-52227 N64-10094 01-20

TRAJECTORY CALCULATION, REENTRY CONDITIONS, LANDING SITE, AND INJECTION CONDITIONS FOR RETURN-TO-EARTH FROM LUNAR ORBIT
NASA-TM-X-51082 N64-10103 01-22

FORTRAN PROGRAM FOR TRAJECTORY MONITOR CONTROL
NASA-CR-52600 N64-11098 02-20

EARTH PARKING ORBITS AND FREE RETURN CIRCUNLUNAR TRAJECTORIES FROM LAUNCH WINDOWS WITH FIXED AZIMUTHS - APOLLO PROJECT
AIAA PAPER-63-406 N64-11501 03-29

ANALYSIS OF LUNAR LANDING TRAJECTORIES WITH REFERENCE TO LUNAR ORBIT RENDEZVOUS MODE & ABORT SITUATIONS
NASA-TN-D-2016 N64-11551 03-29

ERUPTIVE PROMINENCE MOTIONS - TRAJECTORIES & MAGNETIC FIELDS N64-11636 03-28

TWO-BODY SPACECRAFT GUIDANCE IN CISLUNAR SPACE OF EARTH-MOON TRAJECTORY
NASA-CR-55031 N64-12033 03-29

TRAJECTORIES, ORBITAL CALCULATIONS, AND ADAPTIVE GUIDANCE
NASA-TM-X-51074 N64-12102 03-22

DOPPLER RADIO TRACKING SYSTEM AND TRAJECTORY CALCULATIONS FOR SMALL ROCKETS OF NIKE-CAJUN SIZE
FFIT-E-14 N64-12252 03-08

PERIODIC TRAJECTORIES PASSING NEAR BOTH MASSES OF RESTRICTED THREE-BODY PROBLEM N64-12349 03-29

TELEMETRY-TRAJECTORY SYSTEM - ALTITUDE VERSUS TIME DATA FROM UPPER-AIR SOUNDING ROCKETS
AFCRL-63-778 N64-12613 04-30

ENTRY RANGE AND LANDING LIGHTING RESTRICTIONS ON RETURN TRAJECTORIES FROM MOON FOR APOLLO-TYPE MISSION
NASA-TN-D-2127 N64-12689 04-29

ERROR ANALYSIS OF SPACE VEHICLE TRAJECTORY NAVIGATION SYSTEM BY LINEAR FILTER THEORY
NASA-TN-D-2129 N64-12718 04-29

IONIC PROPULSION - ELECTRICAL NETWORK WITHIN DIGITAL COMPUTERS FOR DETERMINING ELECTRON TRAJECTORIES
ONERA-TN-73 N64-12916 04-23

THRUST-WEIGHT RATIO AND SPECIFIC IMPULSE EFFECT ON TRAJECTORY PARAMETERS & TRAJECTORY REQUIREMENTS FOR INTERPLANETARY MISSIONS
NASA-TN-D-1829 N64-13054 04-27

BALLISTIC INTERPLANETARY TRAJECTORIES UNDER INFLUENCE OF MULTIPLE PLANETARY ATTRACTIONS - MANY-BODY PROBLEM
NASA-CR-53033 N64-13275 04-29

OPTIMUM-THRUST EQUATIONS FOR VARIABLE & CONSTANT THRUST TO GENERATE RENDEZVOUS TRAJECTORIES FOR EARTH-MARS FLIGHTS
NASA-CR-53030 N64-13404 04-29

EARTH-VENUS TRAJECTORIES
NASA-CR-53050 N64-14893 06-29

STEEPEST-ASCENT METHOD FOR OPTIMIZATION OF TIME DEPENDENT FUNCTIONS & TIME INVARIANT QUANTITIES, FOR VEHICLE TRAJECTORY OPTIMIZATION
SSD-TDR-63-362 N64-14959 06-20

ANALOG COMPUTER OPTIMIZATION OF TRAJECTORIES - INTERPLANETARY TRANSFERS AND VERTICAL ASCENSION ROCKET BURNING TIME
REPT.-28 N64-15033 07-20

SOME NUMERICAL CHACTERISTICS OF ERROR MODEL ESTIMATES OF TRAJECTORIES N64-15326 07-20

USE OF TETRAHEDRONS OF TRANSPARENT MATERIAL AS OPTICAL TRAJECTOGRAPH N64-15474 07-23

TRAJECTORY PARAMETERS FOR ESCAPING FROM & BRAKING INTO EARTH ORBIT UTILIZING SINGLE VEHICLE STAGE WITH HIGH SPECIFIC IMPULSE
NASA-TM-X-53002 N64-15623 07-27

TRANSONIC WIND-TUNNEL STUDY OF LAUNCH TRAJECTORIES OF BEECH XKD2B-1 TARGET DRONE AFTER LAUNCH FROM F3H-2 AIRPLANE
DTMB-AERO-993 N64-16469 08-04

SPACE FLIGHT AND GUIDANCE THEORY - SATURN LAUNCH VEHICLE AND TRAJECTORIES
NASA-TM-X-54562 N64-16521 08-22

GUIDANCE EQUATIONS FOR SATURN V THIRD STAGE POWERED TRANSITION FROM EARTH ORBIT TO EARTH-MOON TRAJECTORY N64-16523 08-22

ABORT TRAJECTORY RANGE AND CAPABILITY OF SATURN S-IV STAGE AND SERVICE MODULE N64-16524 08-29

TRAJECTORIES OF VARIABLE MASS POINT IN CENTRIPETAL FORCE FIELD
JPRS-23629 N64-16546 08-29

HISTORIES OF PROPELLANT DROPLET TEMPERATURE, EVAPORATION RATE, AND TRAJECTORY UNDER HIGH PRESSURE AND HIGH TEMPERATURE
NASA-RP-138 N64-16688 08-23

TRAJECTORY EQUATIONS FOR BALLISTIC MISSILES AND LIQUID & SOLID FUELS FOR ROCKET ENGINES
JPRS-24024 N64-17972 10-30

MARS NONSTOP ROUND-TRIP TRAJECTORIES USING GRAVITY SUPPLEMENTED BY PROPULSION OR AERODYNAMIC FORCES
NASA-RP-154 N64-18324 10-29

PARAMETRIZATION OF OPTIMAL MINIMUM AND MAXIMUM ESTIMATION OF TRAJECTORY FUEL CONSUMPTION
NASA-CR-53593 N64-18429 10-20

AUTOMATIC MISSILE STABILIZATION TRAJECTORY CONTROL AT LAUNCHING N64-18484 10-30

OPTIMUM TRAJECTORY PATH COMPUTATIONS IN PROBLEM OF BOLZA
RP-43 N64-18900 11-29

METHODS FOR CONTROL OF TRAJECTORY OF MARS I SPACECRAFT
FTD-TT-63-131/162 N64-19744 12-29

STANDARDIZATION OF CONSTANTS AND EPHEMERIS DATA FOR TRAJECTORY AND ORBIT CALCULATIONS
NASA-CR-53921 N64-19897 12-29

HELICOPTER-TYPE ROTORS FOR DECELERATION, TRAJECTORY CONTROL, GLIDING DESCENT, AND RECOVERY OF AEROSPACE PAYLOADS
ASD-TDR-63-514 N64-20360 13-04

DIMENSIONLESS DIFFERENTIAL CORRECTIONS FOR GUIDANCE ANALYSIS OF TRANSFER ELLIPSE SECTION OF SPACE TRAJECTORIES
NASA-CR-56169 N64-20818 14-21

POINT-MASS TRAJECTORY DATA FOR MANEUVERABLE BALLISTIC MISSILE REENTRY VEHICLES
NOLTR-63-193 N64-21248 14-21

ENERGY-OPTIMAL TRAJECTORIES FOR TERMINAL PHASE OF SATELLITE RENDEZVOUS
NASA-TR-R-175 N64-21258 14-21

FEASIBILITY OF BALLOON TRAJECTORY ANALYSIS UTILIZING ANALYTICAL PHOTOGRAMMETRY
CER63RWH31 N64-21519 15-04

EARTH-MOON TRANSIT TRAJECTORY FOR APOLLO AND SUPPORT VEHICLE FLIGHTS
NASA-TM-X-51693 N64-22474 15-29

ABORT TRAJECTORY FOR LUNAR LANDING
NASA-TN-D-2338 N64-22573 15-21

AIRBORNE INSTRUMENTATION PLATFORM FOR SATELLITE AND SPACECRAFT TRAJECTORIES
ESD-TDR-64-182 N64-22972 16-04

NIKE-APACHE SOUNDING ROCKET - TRAJECTORY ANALYSIS
NASA-RP-224 N64-23334 16-04

COMPUTATION OF TAKEOFF TRAJECTORIES FOR COMBATING JET NOISE USING SONIC BOOM CALCULATIONS
ONERA-TP-119 N64-23500 16-04

CELESTIAL MECHANICS OF MOON AND PROBLEMS OF EARTH MOON TRAJECTORY N64-23644 16-21

AERODYNAMIC BRAKING TRAJECTORIES FOR PLANETARY ORBIT ATTAINMENT
AIAA PAPER-64-478 N64-24165 16-04

DYNAMIC PROGRAMMING FOR ROCKET TRAJECTORIES
A-58-5 N64-24930 17-21

LOW THRUST PROPULSION OSCILLATORY ASCENDING SPIRAL TRAJECTORIES AND EFFECT OF ATMOSPHERIC DRAG
ADN-06-06-63.3 N64-25917 18-21

DESCRIPTION, LAUNCHING TECHNIQUES, SCIENTIFIC EXPERIMENTS, TRAJECTORY, AND ORBIT OF SAN MARCO SATELLITE N64-26281 18-21

MATHEMATICAL DESCRIPTION OF GEOMETRIC CONFIGURATION OF LIQUID PROPELLANT ROCKET BOOSTER FOR TRAJECTORY AND PERFORMANCE PREDICTION
NASA-TM-X-53026 N64-27244 19-21

TRAJECTORIES RESULTING FROM APPLICATION OF THRUST TO OBJECT IN INVERSE SQUARE CENTRAL FORCE FIELD - ADAPTIVE GUIDANCE
NASA-CR-58205 N64-27281 19-21

ANALYTIC SOLUTION TO ELLIPTICAL MOTION EQUATIONS FOR TRAJECTORY CALCULATIONS OF SPACE VEHICLE IN MIDCOURSE PHASE OF INTERPLANETARY FLIGHT
AIAA PAPER-64-398 N64-27326 19-21

COMPUTATION OF OPTIMUM PAYLOADS & TRAJECTORIES & FORMULATION OF GUIDANCE LAWS FOR SATELLITE LAUNCHERS
RAE-TM-SPACE-32 N64-27416 19-21

HELIOCENTRIC EARTH MARS RENDEZVOUS ORBITS AND PLANET-CENTERED ESCAPE TRAJECTORIES
NASA-CR-56975 N64-27451 19-21

EARTH MOON TRAJECTORIES FOR PERIOD 1964-1969
NASA-CR-58223 N64-27812 19-29

CALCULATION OF TRAJECTORY OF CAPTURE IN PLANE PROBLEM OF THREE BODIES OF EQUAL MASS
N64-28379 20-29

MATHEMATICAL MODEL FOR COMPUTER SIMULATION OF REENTRY VEHICLE TRAJECTORIES TO DETERMINE REQUIREMENTS OF GROUND ELECTRONIC SUPPORT SYSTEMS
ESD-TDR-64-135 N64-28580 20-30

CONTROL OF MISSILE TRAJECTORIES WITH SPIN STABILIZATION AND AUTOMATIC ATTITUDE CONTROL
AGARD-392 N64-28657 20-30

MOTION EQUATIONS FOR MANNED LUNAR LANDING TRAJECTORIES
NASA-CR-58630 N64-28853 20-29

BOOSTER PARAMETRIC DESIGN METHOD FOR PERFORMANCE AND TRAJECTORY ANALYSIS - PROPULSION
NASA-TM-X-53053 N64-29178 21-27

FORTRAN COMPUTER PROGRAM FOR CALCULATION OF SURFACE-TO-AIR MISSILE TRAJECTORIES
TM-R-104 N64-30584 22-20

TRAJECTORY COMPUTATION FOR SPACECRAFT WITH LIMITED POWER BETWEEN COPLANAR CIRCULAR ORBITS IN CENTRAL GRAVITATIONAL FIELD N64-31528 23-29

SLOW MALFUNCTION ERROR ANALYSIS OF TRAJECTORY FOR GEMINI LAUNCH VEHICLE
LV-306 N64-31837 23-10

LINEAR, GLOBAL TRAJECTORY, AND LOCAL TRAJECTORY EQUIVALENCE OF SYSTEMS OF DIFFERENTIAL EQUATIONS
AD-448771 N64-32474 23-20

DESIGN AND CHARACTERISTICS OF MOON TO EARTH TRAJECTORIES
JPL-TR-32-412/REV. 1/ N64-32823 24-29

EXTERIOR BALLISTICS ENGINEERING DESIGN HANDBOOK - TRAJECTORIES, DIFFERENTIAL EFFECTS, AND DATA FOR PROJECTILES
AMCP-706-140 N64-33129 24-02

TRAJECTORY OF HYPERSONIC AERODYNAMIC LIFTING REENTRY VEHICLE IN BALLISTIC RANGE
CARDE-TR-512/64 N64-33471 24-02

CHARGED PARTICLE TRAJECTORIES IN CURRENT SHEET BASED ON OPEN MODEL OF MAGNETOSPHERE
AFCRL-64-726 N64-33550 24-28

TRAJECTORY MEASURING SYSTEM
CLOCK TRAJECTOGRAPHY SYSTEM BASED ON ACCURATE MEASUREMENT OF TIME INTERVALS N64-18211 10-15

COMPUTER PREDICTION OF RANDOM ERRORS IN TRAJECTORY MEASURING SYSTEM
SAD-131 N64-20650 13-08

DETERMINATION OF MOTION PARAMETERS OF SPACE VEHICLE USING TRAJECTORY-MEASUREMENT DATA
N64-21627 15-29

TRAJECTORY AND LARGE AMPLITUDE MOTION OF SCOUT VEHICLE DURING FOURTH STAGE REENTRY FLIGHT
NASA-TN-D-2309 N64-23373 16-04

ADVANCED RANGE INSTRUMENTATION SHIPS FOR PROVIDING SIGNATURE AND TRAJECTORY INFORMATION INDEPENDENT OF OUTSIDE NAVIGATION REFERENCE - ACCURACY EVALUATION N64-29109 21-08

MISSILE TRAJECTORY MEASUREMENT SYSTEM - OPERATION, ERRORS, AND DATA PROCESSING N64-29111 21-08

MISTRAM ACCURACY - ERRORS AND CORRECTION PROGRAM
N64-29112 21-08

CONTINUOUS WAVE OPTICAL RADAR FOR EARLY LAUNCH PHASE TRAJECTORY MEASUREMENT
REPT.-7534B N64-29823 21-15

TRANQUILIZER
EFFECTS OF TRANQUILIZER ON BODY TEMPERATURE
CARI-63-23 N64-17236 09-16

TRANSALL C-160 AIRCRAFT
TRANSALL C-160 MILITARY TRANSPORT PLANE - EJECTION BY PARACHUTE OF LIGHT ARTILLERY PIECES
FTD-TT-63-790/1&2 N64-30564 22-04

TRANSDUCER
SA PRESSURE TRANSDUCER
CF ENERGY CONVERSION
HYDRAULIC ACTUATORS AND AMPLIFIERS WITH & WITHOUT FEEDBACK, AND ELECTROMECHANICAL TRANSDUCERS
FTD-TT-62-1226/1&2 N64-11150 02-11

PELTIER REFRIGERATORS AS TRANSDUCERS FOR PSYCHOPHYSICAL STUDY OF TEMPERATURE SENSE
N64-11259 02-16

VELOCITY-ELECTRICAL CONDUCTIVITY TRANSDUCER FOR AXISYMMETRIC REENTRY VEHICLES
TDR-269/4810-20/-1 N64-12071 03-02

ULTRASONIC WELDING EQUIPMENT FOR REFRACTORY METALS - CERAMIC TRANSDUCER AND COUPLING SYSTEMS
ASD-TR-7-888/VI/ N64-12647 04-18

TELEMETRY TRANSDUCER HANDBOOK WITH BIBLIOGRAPHY
WADD-TR-61-67, VOL. 1, REV. 1 N64-12704 04-15

EFFECT OF HIGH PEAK FLUX AND TRANSIENT NUCLEAR RADIATION ON TRANSDUCERS AND ELECTRICAL CABLE PERFORMANCE
IDO-16914 N64-14076 05-23

ULTRASONICS IN CHEMICAL REACTIONS, ULTRASONIC TRANSDUCER PRODUCTION, AND CONTROL BY ULTRASONICS
FTD-MT-63-106/1&3&4 N64-14385 06-23

COMPUTER FOR MEASURING DIRECTIVITY FACTOR FOR ELECTROACOUSTIC TRANSDUCERS
NEL-1196 N64-14635 06-15

TRANSDUCERS FOR MECHANICAL PARAMETERS OF MACHINES
FTD-TT-62-1334/1&2 N64-16054 07-15

TRANSDUCER FOR CONTINUOUS EXTERNAL MEASUREMENT OF ARTERIAL BLOOD PRESSURE N64-16184 08-16

TYPES AND CHARACTERISTICS OF PRESSURE TRANSDUCERS AND CONCEPTS OF CALIBRATION AND ANALYSIS
N64-16237 08-15

INPUT, OUTPUT, AND TRANSFER FUNCTION RELATIONS OF LINEAR TRANSDUCERS N64-16238 08-15

CORRESPONDING RESPONSE FUNCTIONS FOR INPUTS FROM CHARACTERISTIC DIFFERENTIAL EQUATIONS OF MOTION OF TRANSDUCER SYSTEMS N64-16239 08-15

ANALYSIS OF PHYSICAL NONLINEAR TRANSDUCERS BY MATHEMATICAL MODELS CHARACTERIZED BY DIFFERENTIAL EQUATIONS N64-16240 08-15

ELECTRONIC COMPENSATOR DESIGNED TO EXTEND USABLE FREQUENCY RANGE OF TRANSDUCER SYSTEM
N64-16244 08-08

UTILIZING A TRANSDUCER & TENSOMETER TO MEASURE PRESSURES OF JETSTREAMS
JPRS-23920 N64-17713 09-15

EFFECT OF DRIFT FROM NULL VOLTAGE ON USEFULNESS OF HALL GENERATORS IN FLUX RESPONSIVE MAGNETIC READ-OUT HEADS
AD-434401 N64-18130 10-15

HEARTBEAT MEASUREMENT OF BIRD EMBRYOS WITH MICROMETEORITE TRANSDUCER AS BALLISTOCARDIOGRAPH
NASA-SP-5007 N64-19015 11-16

EQUATIONS FOR MUTUAL SELF-RADIATION IMPEDANCES BETWEEN ARRAY OF ELEMENTS WITH FREE-FLOODING, COAXIAL, SPACE RING TRANSDUCERS
U-178-48 N64-19133 11-23

TRANSDUCERS, TELEMETRY SYSTEMS, AND POWER SOURCES USED IN PROPULSION TEST VEHICLES

CARDE-TN-1518/63 N64-20625 13-15

SEMICONDUCTOR TRANSDUCERS - MECHANISM, PROPERTIES, AND APPLICATION
ARL-20 N64-21124 14-15

MAGNETIC LOGICAL TRANSDUCERS
AL-TDR-64-22 N64-21666 15-09

THERMOMAGNETIC PULSE MODULATION DEVICE BASED ON CONTACTLESS THERMAL TRANSDUCER
FTD-TT-62-1805/1&2&4 N64-22403 15-15

MEMBRANE TRANSDUCERS TO MEASURE PRESSURE PULSE IN AIR STREAM
FTD-TT-63-737/1&2&4 N64-22660 15-02

UPPER ATMOSPHERIC PHENOMENA - ANNOTATED BIBLIOGRAPHY
IER-2 N64-23333 16-09

RESISTIVE-WHEATSTONE BRIDGE LIQUID DISPLACEMENT TRANSDUCER USED TO MONITOR LIQUID SURFACE OSCILLATIONS
NASA-CR-56551 N64-23527 16-09

BROADBAND TRANSMITTING AND RECEIVING EQUIPMENT FOR TRANSDUCER MEASUREMENT
HW-81955 N64-25190 17-09

CROSSED-RECTANGLE TRANSDUCER FOR MICROWAVE COUPLING OF RECTANGULAR TO CIRCULAR WAVEGUIDES
USAELRDL-TR-2389 N64-26296 18-08

MICROWAVE INTERACTIONS IN DISTRIBUTED SEMICONDUCTOR STRUCTURES & SOLID STATE ULTRASONIC AMPLIFIERS AND TRANSDUCERS
QR-4 N64-26850 18-25

VIBRATING MEMBRANE ELECTROMETER WITH HIGH CONVERSION GAIN
NASA-RP-289 N64-28352 20-15

ELECTROMECHANICAL TRANSDUCERS AS LINEAR TWO-PORT DEVICES
REPT.-1 N64-29393 21-15

ELECTROMECHANICAL TRANSDUCER SYSTEMS FOR TRANSIENT PRESSURE MEASUREMENTS
WAPD-TM-343 N64-30127 21-15

OPTICAL ENCODER FOR HIGH RESOLUTION TRANSDUCER
N64-31491 23-15

FEASIBILITY DEMONSTRATION OF DIGITAL DISPLACEMENT TRANSDUCER USING OPTICAL RULING TECHNIQUE
ASD-TDR-63-475 N64-31588 23-15

MOVABLE SYSTEM FOR TRANSDUCER PICKUP ELEMENT
N64-31874 23-15

INFRASONIC PRESSURE MICROPHONE WITH SOLION TRANSDUCER FOR STUDYING ATMOSPHERIC ACOUSTICS
N64-32258 23-15

ACOUSTIC VIBRATION MEASUREMENTS FOR CALIBRATION OF SONAR TRANSDUCERS
BBN-1135 N64-33250 24-15

DETERMINATION OF FAR FIELD DIRECTIVITY PATTERN OF TRANSDUCER FROM NEAR FIELD MEASUREMENT
NRE-64/1 N64-33479 24-23

CIRCUITS AND CALIBRATION CURVES FOR ACOUSTIC PRESSURE TRANSDUCER - SQUID PROJECT
ILL-16-P N64-33947 24-15

TRANSFER
S CHARGE TRANSFER
S ELECTRON TRANSFER
S ENERGY TRANSFER
S INTERPLANETARY TRANSFER
S MASS TRANSFER
S MOMENTUM TRANSFER
S PROPELLANT TRANSFER
S RADIATION TRANSFER

TRANSFER FUNCTION
NUMERICAL RESOLUTION OF INTEGRAL TRANSFER EQUATION /MILNES PROBLEM/ IN NONNEUTRON-ABSORBING MEDIUM
EUR-371.I N64-10036 01-20

HEIGHT RESOLUTION OF RADIATION FROM EXTERNALLY VIEWED ATMOSPHERE BASED ON TRANSFER EQUATION
N64-10918 02-21

AMPLITUDE-FREQUENCY TRANSFER FUNCTION OF RELAY CONTROL MECHANISM WITH INDEPENDENTLY DRIVEN MOTOR - CYBERNETICS
N64-12468 04-06

FRESNEL ZONE PLATE INSTRUMENT FOR CONTRAST TRANSFER FUNCTION, POINT IMAGING, AND DISTORTION MEASUREMENTS
E-T-G-63-32 N64-15373 07-23

SPLITTING METHODS FOR MULTIPORT VOLTAGE TRANSFER FUNCTIONS
AFCRL-63-592 N64-15806 07-09

INPUT, OUTPUT, AND TRANSFER FUNCTION RELATIONS OF LINEAR TRANSDUCERS
N64-16238 08-15

ANALYTICAL STUDY OF TRANSFER FUNCTION OF EBR-1 MARK IV
ANL-6773 N64-16312 08-23

SIMULATION OF THIRD AND FOURTH ORDER RATIONAL TRANSFER FUNCTIONS WITH ADJUSTABLE COEFFICIENTS
COA-NOTE-E&C-1 N64-16919 09-20

MEASURED HUMAN TRANSFER FUNCTIONS - MATCHING ANALOG SIMULATION TO PILOT PERFORMANCE DURING 1 & 2-AXIS TASKS WITH & WITHOUT COCKPIT MOTION
NASA-TN-D-2177 N64-17157 09-14

DISTRIBUTED RESISTANCE-CAPACITANCE NETWORKS WITH RATIONAL TRANSFER FUNCTIONS
R-164 N64-19396 12-09

INVARIANT IMBEDDING AND SCATTERING OF LIGHT IN ONE-DIMENSIONAL MEDIUM WITH MOVING BOUNDARY - TRANSFER FUNCTION FORMULATION
RM-3960-ARPA N64-19552 12-23

AMPLITUDE TIME-DELAY AND TRANSIENT RESPONSES USING MAXIMALLY-FLAT TIME DELAY TRANSFER FUNCTION
PIBMRI-1204-64 N64-19555 12-09

REALIZATION OF TRANSFER FUNCTIONS OF RESISTANCE-CAPACITANCE TUNNEL DIODE NETWORKS
EE-574 N64-19871 12-09

FUNCTIONS AND TRANSFER CHARACTERISTICS OF CONTROL SYSTEMS WITH NONLINEAR ELEMENTS
SAAB-TN-51 N64-20436 13-20

FLEXIBLE FLIGHT VEHICLE TRANSFER FUNCTION FACTORS FOR USE IN AUTOPILOT DESIGN
RTD-TDR-63-4218 N64-21093 14-22

VARIABLE ADJACENCY MATRIX AND TRANSFER FUNCTION OF GRAPHS
N64-22868 16-14

OPTIMUM TRANSFER FUNCTION FOR AUTOMATIC CONTROL SYSTEM
N64-24702 17-20

PULSE TRANSFER FUNCTIONS IN COMPLEX COMMUNICATION TWO-CHANNEL CONTINUOUS SIGNAL SYSTEM
N64-24703 17-09

OPTIMAL TRANSFER PROCESSES IN SYSTEM WITH FORECASTING
N64-24707 17-14

MEASURED VARIATION IN TRANSFER FUNCTION OF HUMAN PILOT
NASA-RP-206 N64-25000 17-14

APPROXIMATE TRANSFER FUNCTION OF HEAT EXCHANGER DESCRIBED BY PARTIAL DIFFERENTIAL EQUATIONS
N64-25432 17-09

STATISTICAL FLUCTUATIONS IN CROSS SECTIONS, EXCITATION FUNCTIONS AND ANGULAR DISTRIBUTIONS FOR NUCLEON TRANSFER REACTIONS, AND SPIN-CUTOFF PARAMETERS FROM COMPOUND NUCLEAR REACTIONS
ORNL-3630 N64-25526 17-09

RELATIONSHIP BETWEEN SIGNAL PASSAGE AND SYSTEM

TRANSFER FUNCTIONS N64-26389 18-20

TRANSFER FUNCTIONS OF HUMAN PILOT IN VARIOUS MODEL
NASA-TN-D-2394 N64-26544 18-14

ABERRATION EFFECTS ON OPTICAL TRANSFER FUNCTION FOR LOW SPATIAL FREQUENCIES
T-G-200 N64-28715 20-23

SYNTHESIS OF TRANSFER FUNCTION OF TWO-DIMENSIONAL SERVOMECHANISM FOR REPRODUCTION OF CURVES IN SPACE
N64-30222 22-09

FREQUENCY-AMPLITUDE TRANSFER FUNCTION OF RELAY EXECUTIVE MECHANISM WITH SEQUENTIAL EXCITATION MOTOR
N64-30224 22-09

CALCULATION OF WEIGHTING FACTOR OF LINEAR PULSE SYSTEM BY USING KNOWN PULSE TRANSFER FUNCTION OF CONTINUOUS ACTION SYSTEM
N64-30225 22-20

TRANSFER ORBIT
SA EULER-LAMBERT EQUATION
GRAPHS FOR CIRCULAR AND TRANSFER ORBITS UP TO 40,000-KM. ALTITUDE
NASA-TM-X-54563 N64-15863 07-29

THERMAL RADIATION INCIDENT ON LIQUID HYDROGEN TANK DURING TRANSFER ORBIT
N64-25027 17-26

LINEAR EQUATION FOR ALTITUDE ERROR IN LUNAR TRANSFER ORBIT CALCULATION
NASA-TN-D-1837 N64-32401 23-29

TRANSFORM
S FOURIER TRANSFORM
S LAPLACE TRANSFORM
S LEGENDRE TRANSFORM

TRANSFORMATION
S CONFORMAL TRANSFORMATION
S COORDINATE TRANSFORMATION
S LINEAR TRANSFORMATION
S LORENTZ TRANSFORMATION

TRANSFORMER
CF AMPLIFIER
CF CONVERTER
ELECTRODELESS DETERMINATION OF ELECTRICAL CONDUCTIVITIES OF MELTS AT ELEVATED TEMPERATURES USING TRANSFORMER EDDY CURRENT METHOD
NAA-SR-8833 N64-10406 01-25

CHEBYSHEV STEP-TYPE TRANSFORMERS WITH QUARTER WAVELENGTH STEPS FOR BROADBAND MATCHING OF TWO TRANSMISSION LINES
N64-12745 04-09

TRANSFORMER COILS FOR HIGH MAGNETIC FIELDS
CERN-63-36 N64-13324 04-23

TRANSMISSION OF HYDRAULIC POWER USING PULSATING FLOW - PISTON TRANSFORMER WITH FLUID REPLENISHMENT UNIT
RAC-933-3 N64-14107 05-11

PARALLEL INVERTER AND CONVERTER OPERATION AND IMPROVEMENTS IN TRANSFORMERS
NASA-CR-53206 N64-17205 09-06

PARALLEL OPERATION OF STATIC INVERTERS AND CONVERTERS AND TRANSFORMER IMPROVEMENT
NASA-CR-54012 N64-17760 09-06

HIGH POWER, HIGH VOLTAGE, AUDIOFREQUENCY TRANSFORMER DESIGNING
QR-6 N64-18885 11-09

SEMICONDUCTOR DEVICE - DIRECT CURRENT TRANSFORMER WITH INDUCTIVE FEEDBACK
FTD-TT-62-117/1&2&4 N64-21650 15-09

ROTARY SINE-COSINE TRANSFORMER WITH OUTPUT VOLTAGE PROPORTIONAL TO ROTOR ROTATION ANGLE
N64-23539 16-09

THERMOCONDUCTIVITY OF TRANSFORMER WINDINGS
N64-23547 16-09

TRANSFORMER-TYPE PULSED FREQUENCY METER WITH FEEDBACK LOOP AND SEMICONDUCTOR TRIODE
N64-24539 17-09

HEAT CALCULATIONS FOR LOW-POWER TRANSFORMERS
N64-24554 17-09

TWO-SECTION TRANSFORMER WITH EACH SECTION LESS THAN QUARTER WAVELENGTH IN LENGTH
HDL-TR-1223 N64-27922 20-09

PRESSURE TRANSDUCER USING LINEAR DIFFERENTIAL TRANSFORMER
TN-SE-3-63 N64-29389 21-15

DISTORTION ERRORS IN VOLTAGE CURVE OF STATIC TRANSFORMER FOR WATTMETER
N64-31852 23-09

SYNTHESIS OF BROADBAND VOLTAGE TRANSFORMER
N64-32909 24-09

USE OF MATCHING TRANSFORMER TO INCREASE FIGURE OF MERIT OF TRANSISTOR AMPLIFICATION STAGES
N64-32911 24-09

ELECTROSTATIC POWER GENERATOR - VACUUM INSULATION AND EXCITATION TRANSFORMER
QTPR-3 N64-33886 24-06

TRANSFUSION
TREATMENT OF SEVERE BURN SHOCK BY INTRA-ARTERIAL INFUSION OF BLOOD SUBSTITUTE AT LOW PRESSURE
N64-12766 04-16

BLOOD SUBSTITUTION AND OXIDATION OF INTERMEDIATE METABOLIC PRODUCTS DURING RESUSCITATION AFTER CLINICAL DEATH
N64-12768 04-16

BLOOD TRANSFUSION & COAGULATION STUDIES
JPRS-24118 N64-18520 11-16

PROTEIN BLOOD SUBSTITUTE BK-8 EFFECT ON COAGULATION DURING BLOOD TRANSFUSION
N64-18522 11-16

HISTOLOGICAL CHEMISTRY OF RETICULOENDOTHELIAL SYSTEM FOLLOWING INFUSION OF BLOOD EXPANDER - POLYVINYL ALCOHOL
N64-18523 11-16

TRANSIENT HEATING
TECHNIQUES FOR INPILE CAPSULE TRANSIENT HEATING EXPERIMENTS IN ORGANIC REACTORS
NAA-SR-9009 N64-14925 06-23

TRANSIENT TEMPERATURE RESPONSE OF SIX COMPOSITE FIBERGLASS-METAL INSULATION PANELS FOR F-111 AIRCRAFT
FTDM-3219 N64-20067 13-17

THERMAL TRANSIENTS RESULTING FROM INSTANTANEOUS HEAT SOURCES IN SOLIDS WITH TEMPERATURE DEPENDENT THERMAL PROPERTIES
D1-82-0310 N64-20624 13-13

CALCULATION OF TRANSIENT TEMPERATURES IN TURBINE BLADES AND TAPERED DISKS USING BIOT VARIATIONAL METHOD
ARC-CP-617 N64-20255 20-13

TESTING OF WING MODEL WITH HIGH TRANSIENT HEATING
N64-29270 21-33

COMPUTATION OF TRANSIENT TEMPERATURE IN SPHERICAL VOLUME CONTAINING CONTIGUOUS SPHERICAL GRAPHITE SHELLS HEATED BY CONDUCTION - NECKLACE PROGRAM
LA-3115-MS N64-30868 22-20

TRANSIENT LOAD
POWER LINE TRANSIENT ANALYSIS AND DESIGN OF POWER SYSTEM TRANSIENT SIMULATOR
N-621 N64-31025 22-09

RESPONSE OF FOAM ISOLATED TUNNEL LININGS TO TRANSIENT LOADINGS
WL-TDR-64-28 N64-32204 23-34

TRANSIENT RESPONSE
ELECTRONIC MEASUREMENT OF TRANSIENT EFFECTS OF ELECTRON RADIATION ON SEMICONDUCTORS
QPR-1 N64-14504 06-09

TRANSIENT RESPONSE OF TALOS AIRFRAME WHEN SUBJECTED TO UNDERWATER EXPLOSION - MATHEMATICAL MODEL
N64-18546 11-30

AMPLITUDE TIME-DELAY AND TRANSIENT RESPONSES USING MAXIMALLY-FLAT TIME DELAY TRANSFER FUNCTION
PIBMRI-1204-64 N64-19559 12-09

TRANSIENT RESPONSE OF YLR87-AJ-5 ROCKET ENGINE TURBOPUMP WITH REDESIGNED FUEL PUMP AND PROPULSION SYSTEM EQUIPMENT
AD-434861 N64-22239 15-17

TRANSIENT SUSCEPTIBILITY TESTS ON PRIMARY POWER LEADS
N64-22847 16-09

TRANSIENT BEHAVIOR OF BISTABLE FLUID ELEMENTS
N64-25302 17-09

TRANSIENT RESPONSE OF RECTANGULAR LOOP ANTENNAS
NR-371-015 N64-25897 18-08

TRANSIENT PROPERTIES OF GRADED BASE TRANSISTORS EXAMINED IN TERMS OF MINORITY CARRIER DISTRIBUTION IN BASE REGION
RADC-TDR-64-295 N64-32621 23-09

OPERATING INSTRUCTIONS AND TRANSISTOR AND DIODE MODELS OF NET-1 DIGITAL COMPUTER FOR SIMULATING DIRECT CURRENT STEADY STATE AND TRANSIENT BEHAVIOR OF ELECTRICAL CIRCUITS
LA-3119 N64-32936 24-09

TRANSIENT BEHAVIOR IN THERMOELECTRIC POWER GENERATION - ANALYTIC METHOD
AD-423163 N64-32951 24-06

TRANSISTOR
TRANSISTOR FOR CONVERTING DIRECT CURRENT TO ALTERNATING CURRENT
FTD-TT-63-179/1&2 N64-11155 02-09

STORAGE AND LIFETIME TEST DATA FOR IMPROVEMENT OF TRANSISTOR RELIABILITY
AD-423881 N64-11774 03-09

RELIABILITY MEASUREMENTS OF SILICON TRANSISTORS
AD-423608 N64-12365 03-09

TRANSISTOR RING COUNTER FOR DIGITAL ELECTRONIC TIMERS & PROGRAMMERS
TR-1154 N64-12642 04-09

USE OF VACUUM-DEPOSITED ALUMINUM LEADS TO BASE AND EMITTER ELECTRODES OF HIGH-FREQUENCY GERMANIUM P-N-P TRANSISTORS
TR-1100 N64-12710 04-09

DIFFUSION TRANSISTOR CONNECTED IN GROUNDED-BASE CIRCUIT
N64-12732 04-09

TRANSISTOR RELIABILITY AND PRODUCTION METHODS IMPROVEMENT
AD-423248 N64-12983 04-09

PRODUCTION TECHNIQUES TO IMPROVE RELIABILITY OF SILICON TRANSISTORS
AD-422641 N64-12989 04-09

TRANSISTORIZED INSTRUMENTATION FOR MEASUREMENTS IN HEALTH PHYSICS
RSIC-87 N64-12997 04-16

PRODUCTION DEVELOPMENT OF SILICON PLANAR EPITAXIAL TRANSISTOR
N64-13038 04-09

HIGH-SENSITIVITY SOLID-STATE LIGHT DETECTOR CONSISTING OF GALLIUM ARSENIDE PHOTOVOLTAIC CELL AND FIELD-EFFECT TRANSISTOR
NASA-CR-55164 N64-13068 04-25

ALUMINUM OXIDE CERAMIC MICROMINIATURE TRANSISTOR PACKAGE
AD-403859 N64-13116 04-09

EFFECTS OF HIGH-ENERGY ELECTRON BOMBARDMENT ON FIELD EFFECT AND INJECTION TRANSISTORS
TECH. BULL.-1 N64-13153 04-25

EVALUATION OF DIFFUSED TRANSISTOR, ALUMINUM WIRE, AND DOUBLE-COATING AND EXPOSURE OF PHOTORESISTANT MATERIAL
N64-13231 04-17

PRODUCTION ENGINEERING MEASURES FOR IMPROVED TRANSISTOR RELIABILITY
QPR-3 N64-13611 05-17

PRODUCTION ENGINEERING MEASURES FOR IMPROVED TRANSISTOR RELIABILITY - PROCESSING
N64-13612 05-17

PRODUCTION ENGINEERING MEASURES FOR IMPROVED TRANSISTOR RELIABILITY - FABRICATION
N64-13613 05-17

ARSENIC AND PHOSPHOROUS DOPED CRYSTALS EVALUATION FOR TRANSISTOR EFFECT ON RADIATION RESISTANCE
QR-1 N64-13619 05-25

MEASUREMENT OF ENGINEERING RELIABILITY OF SILICON ALLOY TRANSISTOR
QR-4 N64-13635 05-17

MICROPOWER TRANSISTOR LINEAR BROADBAND AMPLIFIER - DESIGN STUDY
USAELTDL-TR-2386 N64-13871 05-09

TRANSISTOR RELIABILITY - PRODUCTION ENGINEERING
QPR-1 N64-13979 05-17

IMPROVED MANUFACTURING TECHNIQUES FOR INCREASED RELIABILITY OF FIELD EFFECT TRANSISTORS
QR-1 N64-13990 05-17

PROCESSING IMPROVEMENTS FOR INCREASED RELIABILITY OF SILICON TRANSISTORS
QPR-4 N64-14004 05-17

PRODUCT DEVELOPMENT - SILICON ALLOY TRANSISTOR
AD-427890 N64-14123 05-17

PRODUCTION ENGINEERING TO IMPROVE AND INCREASE RELIABILITY OF PNP SILICON TRANSISTORS
QPR-1 N64-14299 06-17

PRODUCTION & DESIGN CHANGES TO IMPROVE RELIABILITY OF SILICON ALLOY TRANSISTORS
QR-5 N64-14636 06-09

TRANSISTOR ELECTRONICS
AD-429421 N64-15096 07-09

PRODUCTION ENGINEERING METHOD FOR IMPROVEMENT OF GERMANIUM ALLOY POWER TRANSISTOR
AD-429044 N64-15123 07-17

ENGINEERING METHODS FOR PRODUCTION IMPROVEMENT AND INCREASED RELIABILITY OF 2N1358A TRANSISTOR
AD-423651 N64-15297 07-17

PRODUCTION METHOD FOR INCREASING RELIABILITY OF SILICON PLANAR EPITAXIAL TRANSISTORS
AD-429920 N64-15857 07-09

PHASE SHIFT DEVICE AND INTEGRATION OF TRANSISTOR AMPLIFIER INTO SLOTTED AND SPIRAL ANTENNAS
REPT.-1566-7 N64-16071 07-01

MAXIMUM OPERATING FAILURE OF GERMANIUM EPITAXIAL MESA TRANSISTOR
QPR-5 N64-17328 09-09

TRANSISTOR DEVICE FOR LOW INPUT VOLTAGE CONVERSION
N64-17428 09-06

PRODUCTION METHODS FOR IMPROVING RELIABILITY OF GERMANIUM POWER TRANSISTOR
AD-432238 N64-17439 09-09

QUALITY CONTROL MANUAL FOR IMPROVING RELIABILITY OF GERMANIUM TRANSISTORS
AD-432315 N64-17440 09-01

LOW NOISE TRANSISTORIZED AMPLIFIER FOR SOFT LANDING LUNAR SEISMOGRAPH
N64-17559 09-09

TRANSISTOR FAILURE RATE
TRW-3000-43-Q-5 N64-17867 10-17

SURFACE PHENOMENA LEADING TO SEMICONDUCTOR DEVICE FAILURE AND LATERAL THERMAL INSTABILITIES IN POWER TRANSISTORS
RADC-TDR-64-6 N64-18255 10-25

TRANSISTOR WITH OSCILLATOR OUTPUT OF 250 MILLIWATTS AT 1.5 GIGACYCLES
AD-420557 N64-18273 10-17

PRODUCTION ENGINEERING MEASURES TO INCREASE TRANSISTOR RELIABILITY
AD-432001 N64-18369 10-17

THIN FILM AND PLANAR TRANSISTOR ANALOG-TO-DIGITAL CONVERTER AND SYNCHRONOUS GENERATOR
NASA-CR-53561 N64-18425 10-20

PHOTOTRANSISTOR MOSAIC DEVELOPMENT AND EQUIPMENT FOR READOUT OF MOSAIC OUTPUT SIGNALS
NASA-CR-53579 N64-18444 10-23

SILICON PLANAR EPITAXIAL TRANSISTOR - PRODUCTION METHOD, RELIABILITY, AND LIFETIME
AD-435114 N64-18738 11-17

PRODUCT DEVELOPMENT, PRODUCTION, & QUALITY CONTROL OF SILICON PLANAR EPITAXIALLY DEPOSITED TRANSISTOR
AD-435115 N64-18739 11-17

PRODUCT DEVELOPMENT, RELIABILITY ENGINEERING, AND QUALITY CONTROL OF TRANSISTORS
AD-433496 N64-18909 11-17

LINEAR & NONLINEAR CIRCUIT APPLICATIONS OF THIN FILM TRANSISTORS
DL63-26 N64-19068 11-09

ENGINEERING OF GERMANIUM MICROWAVE CIRCUIT TRANSISTORS
REPT.-13 N64-19109 11-09

APPARATUS FOR MEASURING VARIOUS TRANSISTOR PARAMETERS
FTD-TT-63-1211/1 N64-19765 12-15

DEVICE FOR MEASURING ELECTRIC PROPERTIES OF TRANSISTORS AND DIODES
FTD-TT-63-1212/1 N64-19766 12-15

PHOTOELECTRIC STUDY OF INTERNAL OSCILLATIONS IN P-N-P-N TRANSISTORS
FTD-TT-64-68/1&2 N64-19770 12-09

FABRICATION AND PROPERTIES OF GALLIUM ARSENIDE ELECTROLUMINESCENT DIODE AND OPTICALLY COUPLED SILICON TRANSISTOR
AD-426185 N64-19812 12-25

HIGH FREQUENCY UNIPOLAR FIELD EFFECT TRANSISTOR
REPT.-4 N64-19963 12-09

RELIABILITY CONTROL OF SILICON PLANAR EPITAXIAL AND SILICON GROWN DIFFUSED TRANSISTORS
QR-7 N64-20079 13-17

RELIABILITY CONTROL IN FABRICATION OF SILICON ALLOY TRANSISTORS
QPR-2 N64-20141 13-17

MECHANIZED PRODUCTION METHOD FOR SEMICONDUCTORS - TRANSISTOR FABRICATION TECHNIQUES
QPR-24 N64-20143 13-17

RELIABILITY ENGINEERING - PRODUCTION DEVELOPMENT OF SILICON PLANAR EPITAXIAL TRANSISTOR WITH LOW FAILURE RATE
AD-437946 N64-20185 13-09

TRANSISTORIZED VERY HIGH FREQUENCY TRANSMITTER DESIGN FOR SPACECRAFT APPLICATIONS
NASA-TN-D-2104 N64-20188 13-08

QUALITY CONTROL MANUAL FOR RELIABILITY IMPROVEMENT OF SILICON ALLOY TRANSISTOR
QC-223, VOL. 3 N64-20298 13-17

FABRICATION AND JUNCTION FORMATION OF SILICON ALLOY TRANSISTORS - RELIABILITY IMPROVEMENT
QC-223, VOL. 1 N64-20324 13-17

FABRICATION AND JUNCTION FORMATION OF SILICON ALLOY TRANSISTORS - RELIABILITY IMPROVEMENT
QC-223, VOL. 1 N64-20324 13-17

IMPROVED PRODUCTION METHODS FOR SILICON ALLOY TRANSISTOR - RELIABILITY ENGINEERING
QC-223 N64-20325 13-17

BULK RELIABILITY EFFECTS IN SEMICONDUCTOR DEVICE - CURRENT CROWDING IN TRANSISTORS
USAELRDL-TR-2333 N64-20334 13-09

RELIABILITY ENGINEERING OF PLANAR SILICON DIFFUSED TRANSISTOR
REPT.-03-64-09 N64-20447 13-25

SURFACE DAMAGE EFFECTS ON TRANSISTORS AND DIODES IN IONIZING RADIATION ENVIRONMENT
TG-510 N64-20611 13-12

SILICON TRANSISTOR FAILURE MECHANISMS CAUSED BY SURFACE CHARGE SEPARATION N64-20977 14-25

ACCELERATED AND CONSTANT STRESS TESTING FOR FAILURE ANALYSIS OF FILM RESISTORS AND PLANAR TRANSISTORS N64-20979 14-09

COMPARISON OF ACCELERATED AND NORMAL STRESS FAILURE MODES OF GERMANIUM TRANSISTORS N64-20980 14-09

LOCALIZED THERMAL EFFECTS IN SILICON POWER TRANSISTORS FOR FAILURE MODE STUDY N64-20984 14-09

FAILURE IN SILICON TRANSISTORS DUE TO FORMATION OF GOLD-ALUMINUM-SILICON COMPLEX AT LEADS N64-20991 14-25

PRODUCTION METHOD MODIFICATIONS TO IMPROVE RELIABILITY OF SILICON TRANSISTORS - RELIABILITY MONITORING BY STEP-STRESS TESTING
AD-439408 N64-21029 14-17

MAGNETIC CORE TRANSISTOR LOGIC ELEMENTS - RELIABILITY AND AEROSPACE USES N64-21384 14-09

OPTIMIZATION OF HIGH POWER STATIC INVERTERS AND CONVERTERS - TRANSISTOR AND SILICON CONTROLLED INVERTER CIRCUITS
NASA-CR-42 N64-21419 14-09

TRANSISTOR BRIDGE NETWORK - USE OF BASIC DIAMOND CIRCUIT AND ITS DERIVATIVES IN DESIGN OF DATA PROCESSING SYSTEMS
MIT-TR-300 N64-21457 14-09

PRODUCTION ENGINEERING METHOD FOR IMPROVING RELIABILITY OF SILICON PLANAR TRANSISTORS AND MICROELECTRONIC MONOLITHIC CIRCUITRY
AD-437181 N64-21463 14-17

SILICON POWER TRANSISTOR - 500 WATTS
QR-2 N64-21847 15-09

ALTERNATING CURRENT BRIDGE FOR GAIN MEASUREMENT OF TRANSISTORS AT MICROAMPERE COLLECTOR CURRENTS
RAE-TN-SPACE-27 N64-22249 15-15

DELETERIOUS SURFACE PHENOMENA ON SILICON TRANSISTORS
RADC-TDR-64-111 N64-22278 15-09

ANALYSIS & SYNTHESIS OF ELECTRON TUBE & TRANSISTOR AMPLIFIER CIRCUITS OPERATING IN LINEAR RANGE
FTD-TT-63-1011/1&2&4 N64-22362 15-09

LIFE TESTING OF SILICON EPITAXIAL PLANAR TRANSISTORS
QPR-6 N64-22516 15-17

IMPROVEMENT OF PRODUCTION METHODS AND RELIABILITY OF TRANSISTORS
QPR-7 N64-23110 16-09

THEORY OF LR TRANSISTOR OSCILLATOR N64-23799 16-09

TRANSISTOR REGULATED MULTIVOLTAGE POWER SUPPLY

FOR MICROWAVE TRANSMITTER
TR-1231 N64-23984 16-06

TRANSISTORIZED VARIABLE DELAY GENERATOR
NRL-MR-1503 N64-24086 16-06

SINGLE CRYSTAL METAL BASE TRANSISTOR
TP-64-4 N64-24139 16-09

FREQUENCY CHARACTERISTICS IN OUTPUT CONDUCTIVITY OF JUNCTION TRANSISTORS N64-24538 17-09

RELIABILITY ENGINEERING FOR IMPROVEMENT OF SILICON PLANAR EPITAXIAL TRANSISTORS AND MICROELECTRONIC CIRCUITS
AD-601676 N64-24928 17-17

CURRENT AND VOLTAGE MODE CONTRIBUTIONS TO SECONDARY ELECTRIC BREAKDOWN IN TRANSISTORS
USAELRDL-TR-2403 N64-24944 17-09

GALLIUM ARSENIDE TRANSISTOR
TI-08-63-157 N64-25037 17-09

GERMANIUM AND SILICON TRANSISTORS
REPT.-03-64-23 N64-25101 17-09

VHF SILICON TRANSISTOR
PSI-59-RD-2 N64-25128 17-09

PRODUCTION ENGINEERING FOR RELIABILITY IMPROVEMENT OF TRIPLE DIFFUSED SILICON TRANSISTOR
TRWS-3000-43-Q-6 N64-25290 17-09

INTRINSIC SHORT-CIRCUIT CURRENT GAIN OF DIFFUSED BASE TRANSISTOR
TR-400-94 N64-25376 17-09

PRODUCTION ENGINEERING METHODS FOR INCREASING TRANSISTOR RELIABILITY
AD-601954 N64-25400 17-17

PRODUCTION ENGINEERING TO IMPROVE RELIABILITY OF SILICON GROWN DIFFUSED TRANSISTOR
AD-601889 N64-25583 17-09

FAILURE RATE OPTIMIZATION IN SILICON TRIPLE DIFFUSED TRANSISTORS
REPT.-03-64-15 N64-25588 17-09

SOLID STATE DEVICES - SILICON TRANSISTOR AND VOLTAGE TUNED OSCILLATOR FOR RADIO FREQUENCY GENERATOR
QPR-3 N64-25994 18-25

SILICON POWER TRANSISTOR
QR-3 N64-26088 18-09

MULTIPLE EMITTER TRANSISTOR IN LOW POWER LOGIC CIRCUITS N64-26445 18-09

STATIC AND DYNAMIC PERFORMANCE OF MICROPOWER TRANSISTOR LINEAR AMPLIFIERS N64-26447 18-09

TRANSMISSION-TYPE TRANSISTORS AND INTEGRATED CIRCUITS
REPT.-14 N64-26506 18-09

PRODUCTION METHODS TO IMPROVE RELIABILITY OF SILICON ALLOY TRANSISTOR
AD-600024 N64-26638 18-17

CORRELATION OF PROTON, NEUTRON, ELECTRON, AND PHOTON RADIATION DAMAGE IN TRANSISTORS AND DIODES
D2-90407 N64-26654 18-09

RADIATION EFFECT ON TRANSISTORS
BSR-890 N64-26718 18-23

SURFACE EFFECTS OF RADIATION ON TRANSISTORS
R64MCD500 N64-26803 18-09

TRANSISTORIZED SOUND INTERMEDIATE FREQUENCY AMPLIFIER FOR USE IN HYBRID TELEVISION RECEIVER
BI-029 N64-27211 19-09

PRODUCTION ENGINEERING MEASURES TO INCREASE TRANSISTOR RELIABILITY
REPT.-03-64-46 N64-27727 19-09

PROCESS SPECIFICATIONS FOR SILICON TRANSISTORS TO IMPROVE RELIABILITY
REPT.-03-64-42 N64-27728 19-09

PRODUCTION ENGINEERING MEASURE TO INCREASE RELIABILITY OF SILICON TRANSISTORS
QPR-3 N64-27729 19-09

PRODUCTION ENGINEERING MEASURES TO INCREASE TRANSISTOR RELIABILITY
REPT.-03-64-45 N64-27850 19-17

REGULATED CONVERTER FOR DIRECT CURRENT LOW VOLTAGE TO HIGH VOLTAGE CONVERSION USING GERMANIUM POWER TRANSISTOR SWITCHING ELEMENTS
NASA-CR-56883 N64-27892 20-06

NEW WAY OF COUPLING TWO COMPLEMENTARY TRANSISTORS IN FLIP-FLOP CIRCUIT
E-T-SLOVAK-64-1 N64-28279 20-09

RELIABILITY IMPROVEMENTS OF TRANSISTOR - GERMANIUM POWER DEVICE
AD-603363 N64-28606 20-17

PRODUCTION METHOD IMPROVEMENTS AND RELIABILITY TESTING FOR GERMANIUM EPITAXIAL MESA TRANSISTOR
REPT.-03-64-12 N64-28795 20-17

HIGH FREQUENCY JUNCTION TRANSISTORS N64-29072 21-09

QUARTZ CRYSTAL OSCILLATOR CIRCUITS STUDY
TP64-1096 N64-29409 21-09

SUBMINIATURIZED TRANSISTOR TYPE CERMET POTENTIOMETER - PRODUCTION, TESTS, SPECIFICATION CHANGES, AND RELIABILITY
QPR-11 N64-29418 21-33

TRANSISTORIZED CURRENT STABILIZATION CIRCUITS N64-29456 21-09

PARAMETERS FOR TRANSISTOR GENERATOR N64-29473 21-09

COMPUTER LOGIC ELEMENTS USING MAGNETIC CORES AND TRANSISTORS SINGLY AND IN COMBINATION
JPRS-26428 N64-29674 21-09

HIGH INPUT IMPEDANCE OF N-P-N SILICON GROWN JUNCTION DIFFUSED-BASED TRANSISTORS
AMRL-TDR-63-117 N64-29929 21-25

RELIABILITY AND QUALITY CONTROL MEASURES DURING PRODUCTION OF TRANSISTORS
AD-603363 N64-30147 21-17

SOLID STATE LOW-VOLTAGE REGULATOR WITH TEMPERATURE STABILITY USING THERMISTOR COMPENSATION, FORWARD-BIASED DIODES, AND MATCHED SILICON TRANSISTORS
HDL-TR-1222 N64-30619 22-15

HIGH FREQUENCY, HIGH POWER GERMANIUM TRANSISTORS
REPT.-15 N64-30643 22-09

ULTRAHIGH FREQUENCY SILICON POWER TRANSISTORS - DIFFUSION EFFECTS, ION BOMBARDMENT DOPING, AND EPITAXIAL DEPOSITION
AL-TDR-64-207 N64-30982 22-09

EVALUATION OF DIELECTRIC FILMS, THIN FILM FIELD EFFECT TRANSISTORS, AND TUNGSTEN RESISTORS PRODUCED BY CATHODOLYSIS
AFSC-TR-7-857 /V/ N64-31230 22-25

OBTAINING LOGARITHMIC AMPLITUDE RESPONSE CURVE IN TRANSISTORIZED VIDEO AMPLIFIER N64-31364 23-09

TWO-STAGE TRANSISTOR AMPLIFIER WITH PARALLEL FEEDBACK N64-31365 23-09

PRODUCTION ENGINEERING METHOD FOR SILICON ALLOY TRANSISTOR
AD-603159 N64-31833 23-17

MULTIPLE-CYCLE SHIFT REGISTER WITH FERRITE TRANSISTORIZED CELLS N64-31861 23-09

INTEGRATED LOGIC NETS - METAL OXIDE SEMICONDUCTING TRANSISTOR ANALYSIS
AFCRL-64-649 N64-31996 23-09

GERMANIUM AND SILICON TRANSISTOR-LIKE DEVICES - RESISTORS, DIODES, AND TRANSISTORS
REPT.-16 N64-32207 23-09

UNIJUNCTION TRANSISTOR AS FREQUENCY CONVERTER
LFEN-NI-13/ALPHA/ N64-32346 23-09

TRANSIENT PROPERTIES OF GRADED BASE TRANSISTORS EXAMINED IN TERMS OF MINORITY CARRIER DISTRIBUTION IN BASE REGION
RADC-TDR-64-295 N64-32621 23-09

USE OF MATCHING TRANSFORMER TO INCREASE FIGURE OF MERIT OF TRANSISTOR AMPLIFICATION STAGES
N64-32911 24-09

TRANSISTORIZED MULTIPLEXER FOR REPETITIVE SERIAL SAMPLING OF FOUR ANALOG DATA INPUTS
TN-SE-6-64 N64-33054 24-09

PRODUCTION METHODS TO INSURE RELIABILITY CONTROL OF FIELD EFFECT TRANSISTORS
QR-4 N64-33314 24-17

PRODUCTION ENGINEERING METHOD TO INCREASE SILICON TRANSISTOR RELIABILITY
REPT.-03-64-43 N64-33323 24-17

STABILITY, FAILURE RATE, ACCELERATION, AND MECHANICAL RUGGEDNESS OF SILICON PLANAR EPITAXIAL TRANSISTOR
AD-607294 N64-33555 24-17

TRANSISTORIZED QUARTZ-CRYSTAL FREQUENCY STANDARD AND SYSTEM OF FREQUENCY DIVIDERS AND MULTIPLIERS
JPRS-27110 N64-33959 24-09

TRANSISTOR CIRCUIT
TEMPERATURE DEPENDENCE OF CIRCUITS USING TWO EMITTER-COUPLED TRANSISTORS
EUR-370.E N64-11367 02-09

SERIES-SHUNT FEEDBACK PAIR TRANSISTOR CIRCUIT
AFCRL-63-520 N64-13624 05-09

MICROWAVE BROADBAND TRANSISTOR AMPLIFIERS FOR PHASED ARRAY RADAR APPLICATIONS
RE-TN-63-4 N64-14353 06-09

APPLICATION OF LIMITED AND SATURATED TRANSISTOR CIRCUITS WITH DIRECT COUPLING TO COMPUTERS
FTD-TT-62-1869/1&2 N64-14621 06-09

SENSITIVITY AND SWITCHING DELAY IN TRIGGER CIRCUIT
EUR-403.1 N64-16203 08-09

TRANSISTOR CIRCUIT FOR TRANSLATING DATA FROM CARDS TO TAPE
REPT.-1768 N64-16951 09-20

HIGH EFFICIENCY MULTIVIBRATOR TRANSISTOR CIRCUIT
N64-18282 10-09

COMPUTER PROGRAM FOR WORST-CASE CIRCUIT ANALYSIS - RANDEX N64-18346 10-20

TRANSISTORIZED RESISTANCE-CAPACITANCE TIME DELAY RELAYS N64-19509 12-09

TRANSISTOR FLIP-FLOP AND RING COUNTER CIRCUITS WITH NONVOLATILE MEMORY
TR-1198 N64-21104 14-09

ANALYSIS & SYNTHESIS OF ELECTRON TUBE & TRANSISTOR AMPLIFIER CIRCUITS OPERATING IN LINEAR RANGE
FTD-TT-63-1011/1&2&4 N64-22362 15-09

CIRCUIT DESCRIPTION OF ADDING AND SUBTRACTING TRANSISTORIZED DECIMAL COUNTER WITH INDICATOR TUBE
BI-032 N64-26513 18-09

CIRCUIT TO CORRECT OUTPUT WAVEFORM OF TRANSISTOR CHOPPER TO SQUARE WAVE SIGNAL
BI-026 N64-26514 18-09

PHASE PLANE THEORY OF TRANSISTOR BISTABLE CIRCUITS
REPT.-137 N64-26851 18-09

TRANSISTOR SWITCHING CIRCUIT N64-26974 19-09

QUARTZ CRYSTAL OSCILLATOR CIRCUITS STUDY
TP64-1096 N64-29409 21-09

RADIO ENGINEERING - AUTOMATIC SPECTRUM ANALYZERS FOR ELECTRIC SIGNALS, ANALOG MACHINE FOR TEACHING, RADIO TRANSMITTERS, AND TRANSISTOR CIRCUITS
JPRS-26997 N64-32901 24-08

STABILITY OF Q OF CIRCUIT WITH INDUCTIVE EFFECT BASED ON P-N JUNCTIONS N64-32908 24-09

FREQUENCY THERMAL COEFFICIENT COMPENSATION OF QUARTZ IN TRANSISTOR SELF-OSCILLATOR CIRCUITS
N64-32910 24-09

INVESTIGATION OF RECOVERY PROCESSES IN GENERATOR CIRCUIT OF LINEARLY-VARYING VOLTAGE WITH POSITIVE FEEDBACK N64-32923 24-09

OPERATING INSTRUCTIONS AND TRANSISTOR AND DIODE MODELS OF NET-1 DIGITAL COMPUTER FOR SIMULATING DIRECT CURRENT STEADY STATE AND TRANSIENT BEHAVIOR OF ELECTRICAL CIRCUITS
LA-3119 N64-32936 24-09

SOLID STATE THERMOSTAT USING THERMISTOR SENSOR AND TRANSISTOR CIRCUITS
NASA-CR-58858 N64-33038 24-09

FISSION PRODUCT GAMMA RADIATION AND TEMPERATURE EFFECTS ON TRANSISTOR CIRCUITS
BSC-39655 N64-33735 24-09

TRANSIT 1B SATELLITE
SATELLITE OBSERVATIONS OF TRANSIT 1B, ECHO I, AND EXPLORER IX SATELLITES
NASA-CR-55089 N64-12100 03-32

TRANSIT IIA SATELLITE
EPHEMERIS CONTAINING OBSERVATIONS OF EXPLORER, MIDAS III & IV, TRANSIT IIA & OTHER SATELLITES
N64-30870 22-08

TRANSIT IVA SATELLITE
GEOMAGNETIC K-INDICES, IONOSPHERIC ABSORPTION, VLF RADIO WAVE PROPAGATION, TRANSIT IVA RECORDING, VISIBLE AURORAL INDEX, AND MAGNETIC PULSATIONS
N64-19321 12-12

POLARIZATION MEASUREMENTS DURING SCINTILLATION OF RADIO SIGNALS FROM TRANSIT IVA SATELLITE
N64-24006 16-08

TRANSIT SATELLITE
OBSERVATIONS OF SATELLITES - EXPLORER I AND VII, VANGUARD I, II, AND III, AND TRANSIT 1B
NASA-CR-52454 N64-10141 01-32

EPHEMERIS CONTAINING SATELLITE OBSERVATIONS OF MIDAS, TRANSIT, AND THOR AGENA B ORBITING VEHICLES
N64-30872 22-08

TRANSIT TIME
VELOCITIES OF SPUTTERED ATOMS DETERMINED BY PULSING TARGET AND MEASURING TRANSIT TIME OF ATOMS - POLYCRYSTALLINE & SINGLE CRYSTAL COPPER
N64-12477 04-23

VELOCITIES OF SPUTTERED ATOMS DETERMINED BY PULSING TARGET & MEASURING TRANSIT TIME OF SPUTTERED ATOMS N64-12478 04-23

DETERMINATION OF ACCURACY OF MANUALLY RECORDING CELESTIAL-BODY-TRANSIT TIMES
NASA-TN-D-2433 N64-27925 20-05

TRANSITION
S BOUNDARY LAYER TRANSITION
S ELECTRON TRANSITION
S OPTICAL TRANSITION

S TRANSIT TIME

TRANSITION ELEMENT
SA CHROMIUM
SA COBALT
SA HAFNIUM
SA IRIDIUM
SA MANGANESE
SA MOLYBDENUM
SA NICKEL
SA PALLADIUM
SA PLATINUM
SA RHENIUM
SA RHODIUM
SA RUTHENIUM
SA SCANDIUM
SA TANTALUM
SA TITANIUM
HEAT RESISTANT COMPOUNDS OF TRANSITION ELEMENTS - LATTICE STRUCTURE, X RAY SPECTROSCOPY, PHYSICAL PROPERTIES OF REFRACTORY MATERIAL
JPRS-17446 N64-10669 02-01

PHYSICAL PROPERTIES OF METALLOID COMPOUNDS - BORIDES, CARBIDES, NITRIDES, AND SILICIDES OF TRANSITION ELEMENTS
N64-10670 02-18

COMPLEX TRANSITION METAL HYDRIDES AND PROBABLE MECHANISM REQUIRED FOR STABILITY
SSD-TDR-63-283 N64-12583 04-19

NUCLEAR MAGNETIC RESONANCE IN TRANSITION METAL-ALUMINUM INTERMETALLIC COMPOUNDS
AD-423292 N64-12986 04-18

POLARIZED CRYSTAL SPECTRA OF TRANSITION METAL COMPLEXES
AD-424181 N64-13616 05-23

PREPARATION OF COMPOUNDS OF TRANSITION METALS WITH POLYHALOCARBONS & HETEROCYCLES - CHELATES
AD-426470 N64-14102 05-07

ELECTRON-PHONON INTERACTION SUPERCONDUCTIVITY IN TRANSITION METALS N64-15274 07-23

BINDING ENERGY OF OXIDES OF TRANSITION METALS
N64-17063 09-25

ELECTRICAL PROPERTIES OF TRANSITION METAL CARBIDES AND NITRIDES
C-21 N64-19548 12-25

SOLUBILITY AND DIFFUSION STUDIES OF TRANSITION ELEMENTS IN LIQUID ALKALI METALS
AI-64-75 N64-21476 14-18

MAGNETIC AND CRYSTALLOGRAPHIC PROPERTIES OF COMPOUNDS WITH TRANSITION METAL-METAL BONDING
ESD-TDR-64-25 N64-23923 16-23

GEOMETRY OF TRANSITION METAL DIHALIDES - FLUORIDES OF MANGANESE, COBALT, NICKEL, COPPER, & ZINC
ITR-6 N64-25586 17-19

CRYSTALLOGRAPHY OF SOME TRANSITION METAL MOLYBDATES
RM-229 N64-26433 18-07

SOLID STATE RESEARCH - DEVICE DESIGN & MATERIALS, BAND STRUCTURE & SPECTROSCOPY, TRANSITION-METAL & RARE-EARTH COMPOUNDS, AND OPTICS
AD-439686 N64-26649 18-25

ELECTRONIC STRUCTURE AND ALLOYING CHARACTERISTICS OF TRANSITION METALS N64-27577 19-18

SOLUBILITY AND DIFFUSION OF ULTRAPURE TRANSITION ELEMENTS IN ULTRAPURE ALKALI METALS
NASA-CR-54094 N64-28087 20-18

PARAMAGNETIC RESONANCE OF TRANSITION ELEMENTS AND IRRADIATED MATERIALS N64-28094 20-25

ENERGY LEVELS OF TRANSITION METAL IMPURITIES IN SEMICONDUCTORS N64-28667 20-25

DISSOCIATION ENERGIES OF DIATOMIC MOLECULES OF TRANSITION ELEMENTS - NICKEL
AMRA-TR-64-11 N64-28669 20-07

VOLATILE TRANSITION METAL FLUORIDES AND PERFLUOROALKYL DERIVATIVES
AD-423390 N64-29172 21-07

ALLOYING CHARACTERISTICS OF RARE EARTH ELEMENTS WITH TRANSITION ELEMENTS
IITRI-578P19-13 N64-29755 21-18

FLUORESCENCE OF TRANSITION METAL IONS IN CRYSTALS
TR-190 N64-30690 22-23

INFLUENCE OF LIGAND ON STEREOCHEMISTRY OF BIVALENT NICKEL AND OTHER FIRST-ROW TRANSITION METAL COMPLEXES WITH SCHIFF BASES
FTR-1 N64-30884 22-07

BIBLIOGRAPHY ON GROUPS IV, V, AND VI TRANSITION METALS - PREPARATION METHODS, CRYSTAL STRUCTURE, PHASE TRANSITIONS, AND PHYSICAL, MECHANICAL, AND TRANSPORT PROPERTIES
ORNL-RMIC-3 N64-31466 23-23

SYNTHESIS OF ORGANOMETALLIC COMPOUNDS OF TRANSITION ELEMENTS
AD-449203 N64-32453 23-07

BAND STRUCTURE STUDY IN IRON SERIES OF TRANSITION ELEMENTS
PR-4 N64-33666 24-23

TRANSITION POINT
TWO-FLUID MODEL FOR THE TRANSITION REGIME IN HYPERSONIC RAREFIED GAS DYNAMICS
AD-424157 N64-12272 03-11

LINEAR EQUATIONS FOR EFFECTS OF PLASTICIZER, CHAIN ENDS, AND COMONOMER ON GLASS TRANSITION TEMPERATURE OF POLYMERS
ONR-TR-RLT-75 N64-18562 11-19

LOWERING DUCTILE-TO-BRITTLE TRANSITION TEMPERATURE OF BODY-CENTERED-CUBIC METALS
ATN-64/9256/-4 N64-26669 18-18

STRAIN SOFTENING OF REFRACTORY METALS - FLEXURE PROCESS FOR LOWERING TRANSITION TEMPERATURE
QPR-2 N64-30876 22-18

BEND TRANSITION TEMPERATURE OF ARC-CAST WORKED, RECRYSTALLIZED, AND WELDED MOLYBDENUM AND MOLYBDENUM-TITANIUM ALLOY SHEET
NASA-TN-D-1869 N64-30997 22-18

STRESS-STRAIN ANALYSIS OF CRYSTAL LATTICE AND DUCTILE-BRITTLE TRANSITION IN TUNGSTEN BY X-RAY DIVERGENT BEAM METHOD
ML-TDR-64-220 N64-33914 24-18

TRANSITION PROBABILITY
TABLES FOR DIPOLE TRANSITION PROBABILITIES IN LS-COUPLING
AFCRL-64-37 N64-18633 11-23

RADIATIVE TRANSITION PROBABILITIES IN HYDROGEN
UCRL-7088, REV. 1 N64-18996 11-24

EXPANSION METHOD OF COMPUTATION OF TRANSITION PROBABILITIES
NASA-CR-53747 N64-19172 11-23

SHOCK TUBE SPECTROSCOPY - MEASUREMENT OF ATOMIC TRANSITION PROBABILITIES
NASA-CR-56473 N64-22423 15-24

QUANTUM THEORY OF VIBRATIONAL ENERGY EXCHANGE - TRANSITION PROBABILITIES ASSOCIATED WITH INELASTIC COLLISIONS OF ATOMS N64-23208 16-23

MODULATING OPTICAL TRANSITION PROBABILITIES
ML-1111 N64-25038 17-23

TRANSITION PROBABILITIES - EXPANSION METHOD FOR CALCULATING ATOMIC PROPERTIES
NASA-CR-87 N64-26706 18-23

BIOPHYSICS - THERMODYNAMICS OF PHOTOSYNTHESIS,

AND TRANSITION PROBABILITIES IN MOLECULES WITH CONJUGATE SYSTEM OF PI-ELECTRONS
JPRS-25733 N64-28309 20-16

TRANSITION PROBABILITIES IN MOLECULES WITH CONJUGATE SYSTEM OF PI-ELECTRONS
N64-28311 20-16

CALCULATION OF OPTICAL TRANSITION /ELECTRONIC AND VIBRATIONAL/ PROBABILITIES FOR ATOMS AND DIATOMIC MOLECULES N64-29053 21-23

ULTRAVIOLET SPECTRA AND TRANSITION PROBABILITIES FOR CORONAL IONS
NASA-TT-F-8940 N64-30834 22-28

NON-MARKOVIAN MODEL FOR POPULATION TRANSITION PROBABILITIES FOR BRANCHING PROCESSES WITH PARTICLES DIFFUSING IN FINITE INTERVAL
NRC-481 N64-31955 23-20

LOCAL AND NONLOCAL THERMODYNAMIC EQUILIBRIUM OF GAS FOR COLLISIONALLY AND RADIATIVELY CONTROLLED TRANSITION PROCESSES
R64SD41 N64-32372 23-11

RANDOMIZED AND PROGRAMMED LOAD SEQUENCES WITH TRANSITION PROBABILITIES BASED ON MARKOV CHAIN
TR-4 N64-33321 24-33

TRANSLATION
THEORY OF TRANSLATION ASSOCIATED WITH AUTOMATIC DATA PROCESSING N64-12700 04-01

TRANSISTOR CIRCUIT FOR TRANSLATING DATA FROM CARDS TO TAPE
REPT.-1768 N64-16951 09-20

COMPLETE LIST OF RAE TRANSLATIONS ISSUED THROUGH DECEMBER 1962 - BIBLIOGRAPHY
RAE-LIB-BIBL-243 N64-17597 09-01

CONVERTER FOR TRANSLATION OF ALGOL 60 PROGRAMS INTO MACHINE LANGUAGE
JPRS-23955 N64-17714 09-20

DYNAMIC RESPONSE OF SOLID, VISCOELASTIC SPHERE TO TRANSLATIONAL AND ROTATIONAL HARMONIC EXCITATION
EM13-6 N64-18113 10-33

TRANSLATOR COMPUTER PROGRAM FOR TRANSLATION OF ALGOL LANGUAGE PROBLEMS
ORNL-3592 N64-25525 17-20

THRUST VARIATION ANALYSIS OF TITAN II TRANSLATION ROCKET MOTOR
CR-64-113 N64-28989 18-27

TRANSMISSION
SA COAXIAL TRANSMISSION
SA COHERENT TRANSMISSION
SA DATA TRANSMISSION
SA HEAT TRANSMISSION
SA LIGHT TRANSMISSION
SA MICROWAVE TRANSMISSION
SA MULTIPLEX TRANSMISSION
SA NEURON TRANSMISSION
SA RADAR TRANSMISSION
SA SATELLITE TRANSMISSION
SA SOUND TRANSMISSION
SA TELEVISION TRANSMISSION
TRANSMISSION METHODS, POWER SOURCES, AND SIGNAL DETECTION IN MILLIMETER WAVELENGTH
RE-TR-63-30 N64-12367 03-15

RELAY SATELLITE DESTRUCTION FAILURE, ANTICIPATED LIFESPAN, AND HISTORY OF TRANSMISSIONS
N64-12391 03-32

NONLINEAR TRANSMISSION CHARACTERISTICS OF PLASMA SHEATH SURROUNDING TYPICAL HYPERSONIC REENTRY VEHICLE
AFCRL-63-133 N64-15584 07-24

MATHEMATICAL SOLUTION FOR REFLECTION AND TRANSMISSION OF PLANE COMPRESSIONAL WAVES
AFCRL-64-205 N64-15684 07-23

BINARY VARIABLE LENGTH CODES CAPABLE OF DETECTING AND CORRECTING TRANSMISSION ERRORS
AFCRL-64-9 N64-15736 07-20

STABILITY ANALYSIS OF TWO-WAY CONTROLLED CARRIER TRANSMISSION SYSTEMS
AFCRL-63-586 N64-16803 08-08

ENERGY METHOD FOR PREDICTION OF ACOUSTIC AND VIBRATION TRANSMISSION & NOISE REDUCTION STUDIES
N64-18537 11-33

TRANSMISSION CHARACTERISTICS OF MAGNETOPLASMA RESONANCE ISOLATOR
RADC-TDR-64-92 N64-19205 11-24

AUTOMATIC PROPAGATION COMPUTATION ROUTINE FOR HORIZONTALLY AND VERTICALLY POLARIZED TROPOSPHERIC WAVE TRANSMISSION N64-22837 16-09

MAINTENANCE OF HABITS OF INFORMATION TRANSMISSION UNDER LONG TERM ISOLATION CONDITIONS
N64-23759 16-16

RELAY SYSTEMS FOR TRANSMISSION OF RADAR OBSERVATIONS - TELEVISION SYSTEMS, RADAR SIGNAL TRANSMITTERS, AND CONVERTED SIGNAL TRANSMITTERS
N64-24643 17-09

COMPUTER PROGRAM USING MONTE CARLO METHOD TO CALCULATE PRIMARY AND SECONDARY GAMMA RADIATION TRANSMISSION INFORMATION
REPT.-1223 N64-24879 17-20

BROADBAND TRANSMITTING AND RECEIVING EQUIPMENT FOR TRANSDUCER MEASUREMENT
HW-81955 N64-25190 17-09

ENERGY SOURCES AND TRANSMISSION METHODS FOR FUTURE
FTD-TT-63-1088/1 N64-26037 18-01

FIXED AND VARIABLE FREQUENCY PULSE TRANSMISSION AT OBLIQUE IONOSPHERIC INCIDENCE
IIB-8 N64-26224 18-08

TRANSMISSION-TYPE TRANSISTORS AND INTEGRATED CIRCUITS
REPT.-14 N64-26506 18-09

ENERGY METHOD FOR PREDICTION OF HIGH FREQUENCY NOISE AND VIBRATION TRANSMISSION
N64-27403 19-33

GEOMETRY OF ORTHOGONAL NON-HYPOIDAL CYLINDRICAL-CONICAL TRANSMISSION N64-29150 21-15

INTERNAL STRUCTURE OF CRYSTAL AND EXTERNAL MEASUREMENTS OF REFLECTION AND TRANSMISSION
TR-2 N64-29812 21-25

VOICE TRANSMISSION INDICATING CIRCUIT
AEL-TR-2469 N64-29934 21-08

REFLECTION AND TRANSMISSION COEFFICIENTS FOR SOLIDS IN CONTACT WITH ICE AT PLANE INTERFACES
CRREL-110 N64-30177 21-25

TRANSMISSION EFFICIENCY
TRANSMISSION EFFICIENCY MEASUREMENTS OF SANDWICH PANEL AT VARIOUS INCIDENT ANGLES - RADOME
ERR-FW-114 N64-18920 11-09

INCREASED DATA RATE IN TRANSMISSION OVER TIME VARYING MULTIPLE PATHS
ESD-TDR-64-79 N64-25180 17-08

SPEECH DISCRIMINATION, VOICE COMMUNICATION, AND STUDIES OF SPEECH TRANSMISSION EFFICIENCY
STL-QPSR-3/1963/ N64-26675 18-14

TRANSMISSION LINE
SA ANTENNA COUPLER
SA DELAY LINE
CF ELECTRIC NETWORK
ALTERNATING CURRENT ELECTRIC POWER TRANSMISSION LINES FOR LONG DISTANCES - BIBLIOGRAPHY
OTS-63-21222 N64-11006 02-06

ULTRAHIGH POWER TRANSMISSION LINE TECHNIQUES - WAVEGUIDE BENDS

RADC-TDR-63-342 N64-12584 04-08

TRANSMISSION LINE MULTIMODE POWER MEASUREMENT TECHNIQUE - SIZE REDUCTION, FREQUENCY RANGE, WAVEGUIDES
RADC-TDR-63-433 N64-12588 04-08

ELECTROMAGNETIC RADIATION DETECTION AND STUDY OF TRANSMISSION LINES AT MILLIMETER AND SUBMILLIMETER WAVELENGTHS
RADC-TDR-63-458 N64-12591 04-08

CHEBYSHEV STEP-TYPE TRANSFORMERS WITH QUARTER WAVELENGTH STEPS FOR BROADBAND MATCHING OF TWO TRANSMISSION LINES N64-12745 04-09

TUNNEL DIODE CIRCUITS COUPLED INTO TRANSMISSION LINES
ONR-155 N64-14491 06-09

COAXIAL AMPLITUDE-INSENSITIVE PHASE-DETECTION SYSTEM - SLOT TRANSMISSION LINE AND SLOT ANTENNA
TR-398 N64-15941 07-08

SURFACE-WAVE TRANSMISSION LINES USING THIN DIELECTRIC SHEET
T-85-J N64-18512 10-08

IDENTIFICATION OF TRANSMISSION LINE DISTURBANCES BY TIME DOMAIN REFLECTOMETRY TECHNIQUE
N64-20490 13-15

EQUIRIPPLE TRANSMISSION LINE NETWORK
PIBMRI-1089-62 N64-21108 14-09

CIRCULAR WAVEGUIDE DUPLEXERS AND WAVEGUIDE MICROWAVE TRANSMISSION LINE
RTD-TDR-63-4141 N64-21667 15-09

THERMOELECTRIC AND HYDROELECTRIC POWERPLANTS AND TRANSMISSION LINE NETWORKS FOR NATIONWIDE ELECTRIC POWER SYSTEM IN RUSSIA
FTD-TT-63-820/1&2 N64-22179 15-10

TRANSMISSION LINE ANALOG OF FUNCTIONS OF COCHLEA - TUNE LEARNING MACHINE
AL-TDR-64-108 N64-22510 15-09

LOW PASS TRANSMISSION LINES FOR PROTECTION OF ELECTROEXPLOSIVE DEVICES FROM INADVERTANT FIRING
N64-22815 16-09

RADIO NOISE FROM EXTRAHIGH VOLTAGE TRANSMISSION LINES N64-22850 16-09

HIGH POWER HIGH VOLTAGE RESEARCH FACILITY - TRANSMISSION LINES, MICROWAVE COMPONENTS, LASERS, AND RADIATION WEAPONS
EB-5296-0359-2 N64-24067 16-09

TRANSMISSION LINE FOR MEASUREMENT OF RADAR REFLECTION PROPERTIES N64-24287 17-08

ULTRAHIGH POWER TRANSMISSION LINE TECHNIQUES - TAPERS AND SPURIOUS MODE ABSORBERS FOR OVERSIZED WAVEGUIDES
RADC-TDR-64-113 N64-24346 17-09

DISCONTINUITIES OF LONG TRANSMISSION LINES IN ANTENNA RADIATION PATTERN
RADC-TDR-64-121 N64-25233 17-08

SUPERCONDUCTING-TO-NORMAL CONDUCTING TRANSITIONS IN STRIP TRANSMISSION LINES
NASA-RP-244 N64-26073 18-23

IMPEDANCE MEASUREMENT BASED ON THREE POSITION SAMPLING OF TRANSMISSION LINE STANDING WAVE
USRL-74 N64-27745 19-08

ROTATING-FIELD PHASER UTILIZING FERRITE MICROWAVE PROPERTIES
ESD-TDR-64-422 N64-28022 20-09

LOWEST CUT-OFF WAVELENGTH OF MICROWAVE TRANSMISSION LINE - T-SEPTATE LUNAR LINE
AFCRL-62-80 N64-29439 21-09

TRANSIENT CHARACTERISTICS OF COAXIAL & STRIP TRANSMISSION LINES N64-29460 21-09

NONLINEAR SYSTEMS OF AUTOMATIC CONTROL WITH EXTERNAL COMPENSATION FOR SLACK IN MECHANICAL TRANSMISSION LINKAGE N64-30227 22-09

POWER LINE TRANSIENT ANALYSIS AND DESIGN OF POWER SYSTEM TRANSIENT SIMULATOR
N-621 N64-31025 22-09

TRANSMISSION LINKS FOR AEROSPACE VEHICLES - SOLID STATE ELECTRICAL POWER CONTROL AND DISTRIBUTION SYSTEMS
ASD-TDR-63-805 N64-32086 23-08

MODAL ANALYSIS AND SYNTHESIS OF ELECTROMAGNETIC FIELDS - APPROXIMATE METHODS FOR SOLVING TRANSMISSION LINE EQUATIONS IN VARIABLE MEDIA
PIBMRI-1225-64 N64-32103 23-08

WAVEGUIDES FOR HIGH POWER TRANSMISSION LINES
RADC-TDR-64-277 N64-33306 24-09

TRANSMISSION LOSS

STATISTICAL STUDY TO ASCERTAIN VALIDITY OF AHR RADIO CIRCUIT PERFORMANCE SUMMARIES FOR HF RADIO OUTAGE
TOR-269/A4306/-6 N64-16877 08-08

TRANSMISSION LOSS DETERMINATION IN BICYCLE ERGOMETER
FPRC/MEMO-198 N64-25843 18-14

TRANSMITTANCE

SILICON PHOTOVOLTAIC CELL FOR MEASUREMENT OF TRANSMITTANCE AND REFLECTANCE OF TRANSPARENT MATERIALS FOR SOLAR RADIATION N64-10955 02-13

QUANTUM EFFECT IN CALCULATION OF TRANSMISSION COEFFICIENT APPLIED TO REACTION RATE CONSTANTS
IS-677 N64-11546 03-23

SATELLITE SITUATION REPORT - LAUNCHING, LIFETIME, AND TRANSMITTING FREQUENCY DATA
NASA-TM-X-54589 N64-16029 07-12

METEOROLOGICAL CONDITIONS AFFECTING INFRARED SPECTRAL TRANSMISSIVITY OF EARTH ATMOSPHERE
ERDA-186 N64-32039 23-21

THERMAL EFFICIENCY AND TRANSMISSIVITY OF ABLATING HEAT SHIELD MATERIALS
NASA-TN-D-1896 N64-33601 24-13

TRANSMITTER

TELSTAR SATELLITE GROUND TRANSMITTER AND RECEIVER
N64-10880 02-16

LASER RANGING SYSTEM - SIGHTING TELESCOPE, TRANSMITTER, RECEIVER OPTICS N64-12564 04-25

SUN-POWERED LASER TRANSMITTER - MATERIALS, DESIGN, FABRICATION, COOLING, AND OPERATION
ASD-TDR-63-727 N64-12870 04-25

RADIO TRANSMITTER FOR AUTOMATIC RADIO-METEOROLOGICAL STATION N64-14331 06-21

HIGH FREQUENCY TRANSMITTER FOR IONOSPHERIC ELECTRON DENSITY STUDY BY MOON ECHOES
NRL-5968 N64-15130 07-08

ACCELERATION DATA TRANSMITTER - TUBE FILLED WITH SILVER NITRATE GRAVIOPOLARIZING SOLUTION
FTD-TT-63-658/1 N64-16384 08-15

TESTING OF ULTRAHIGH FREQUENCY TRANSMITTER FOR LOW LEVEL APPLICATIONS N64-18088 10-08

DRIVING MECHANISM AND TRANSMITTING & RECEIVING SETS OF 60-PAGE TELETYPE - COMMUNICATION DEVICE
JPRS-23836 N64-18317 10-08

ELECTRON MICROSCOPE STUDY OF LAMELLAR COMPOUNDS OF GRAPHITE WITH BROMINE, IODINE MONOCHLORIDE AND FERRIC CHLORIDE
EUR-542.E N64-21006 14-11

SMALL LIGHT-WEIGHT ALTITUDE TRANSMISSION EQUIPMENT

REPT.-10136 N64-21007 14-08

SPECIFICATIONS FOR PROTOTYPE TRANSMITTERS AND RECEIVERS FOR FALLOUT SHELTER COMMUNICATION SYSTEM
TGGH-642 N64-21338 14-08

ULTRASONIC WAVE & MICROWAVE RADIO COMMUNICATION TRANSMITTER SITE SELECTED BY LIGHT ILLUMINATION AND DIFFRACTION ON EARTH SHAPE
FTD-TT-64-30/162 N64-22158 15-08

REDUCTION OR ELIMINATION OF INTERFERENCE DUE TO HARMONIC FREQUENCY RADIATION FROM HIGH POWER TRANSMITTERS N64-22823 16-09

RADIO FREQUENCY INTERFERENCE - TRANSMITTER SPECTRUM SIGNATURE DATA AND RADIATED FIELD STRENGTH DATA FOR TRANSMITTER EMISSIONS N64-22827 16-09

TRANSMITTER FOR INVESTIGATING ELECTROMAGNETIC WAVE PROPAGATION IN EARTH
TR-6-60 N64-24207 16-08

LONG-LIFE K-BAND CRYSTAL PROTECTOR FOR TRANSMIT-RECEIVE TUBE
QPR-4 N64-25317 17-09

C- AND K-BAND SEMICONDUCTOR TRANSMIT-RECEIVE TUBE
REPT.-2 N64-25523 17-09

AIRBORNE ULTRAHIGH FREQUENCY TRANSMITTER FOR FALLING SPHERE EXPERIMENT
AFCRL-63-922 N64-25730 17-09

SURFACE AND ATOMIC PHYSICS, COMPUTER DESIGNS, PLASMA PHYSICS, SYSTEM DESIGNS, MAGNETIC SUPERCONDUCTORS, VOLTAGE BREAKDOWN, AND THIN FILMS RESEARCH
AD-438840 N64-25885 18-01

SOLAR POWERED LASER TRANSMITTER
IER-2 N64-26652 18-25

EXPERIMENTAL VERIFICATION OF SUN POWERED LASER TRANSMITTER PERFORMANCE
AD-437865 N64-26674 18-25

ANTENNA TEST TRANSMITTERS
NASA-CR-56938 N64-27299 19-08

INTEGRATED STANDARDS FOR TELEMETRY - REFERENCE SIGNAL GENERATORS, MULTIPLEXERS, TRANSMITTERS, RECEIVERS, AND MAGNETIC TAPE RECORDERS
ARTC-40 N64-28067 20-08

VEHICLE TRACKING TRANSMITTER USED WITH VEHICLE MASTER OSCILLATOR AND FREQUENCY SYNTHESIZER
NASA-CR-58699 N64-29506 21-08

FREQUENCY ASSIGNMENT OF TELEMETRY TRANSMITTERS FOR MINIMUM RADIO INTERFERENCE OPERATION
FAA-TR-13-9-63-T N64-31325 22-08

OSCILLATOR BUILD-UP TIME CHARACTERISTIC AND EXPRESSION FOR TRANSMITTER BANDWIDTH IN TERMS OF CIRCUIT PARAMETERS FOR UNPOWERED PERSONAL TRANSMITTER
AD-439830 N64-32362 23-09

SLEDBORNE MULTICOUPLER DESIGN COMBINING SIX TRANSMITTERS TO ONE ANTENNA FOR USE IN VERY HIGH FREQUENCY RANGE
ARI-PUBL.-185 N64-32394 23-08

RADIO ENGINEERING - AUTOMATIC SPECTRUM ANALYZERS FOR ELECTRIC SIGNALS, ANALOG MACHINE FOR TEACHING, RADIO TRANSMITTERS, AND TRANSISTOR CIRCUITS
JPRS-26997 N64-32901 24-08

CHOICE OF TRANSMITTER PULSE SHAPE IN SYSTEM OF FUNCTIONAL TOLERANCES N64-32906 24-08

CONTINUOUS WAVE RADAR TRANSMITTER FOR SPACECRAFT TRACKING AND COMMANDING, AND RECEPTION OF TELEMETRY AND TELEVISION SIGNALS
NASA-CR-58801 N64-32997 24-08

APOLLO LOGISTICS SUPPORT SYSTEM - MOLAB STUDIES - COMPARISON BETWEEN OPTIMUM ANTENNA GAIN AND TRANSMITTER POWER FOR LOW MASS SYSTEM
NASA-CR-61010 N64-33880 24-08

TRANSONIC AIRCRAFT
ZERO LIFT DRAG MEASUREMENTS OF WINGS PROPOSED FOR TRANSONIC FIGHTER AIRCRAFT - GLOSTER JAVELIN
ARC-CP-678 N64-16530 08-04

TRANSONIC SPEED
UNSTEADY PRESSURES ON CONE-CYLINDER BODIES AT TRANSONIC SPEEDS
AEDC-TDR-63-204 N64-12302 03-11

FLIGHT PRESSURE AND WIND TUNNEL DATA FOR FUSELAGE OF X-15 AIRCRAFT AT TRANSONIC TO HYPERSONIC SPEEDS
NASA-TN-D-2241 N64-12961 04-04

PRESSURE DISTRIBUTION IN WAKE OF TWO BODIES OF REVOLUTION AT TRANSONIC AND SUPERSONIC SPEEDS
ASD-TDR-62-1104 N64-14364 06-02

EFFECTS OF SPANWISE VARIATION OF LEADING EDGE SWEEP ON LIFT, DRAG, & PITCHING MOMENT OF WING-BODY COMBINATION AT TRANSONIC SPEEDS
NASA-TN-D-2236 N64-17991 10-02

FREE FLIGHT MEASUREMENTS OF ZERO LIFT DRAG OF SLENDER OGEE WING AT TRANSONIC & SUPERSONIC SPEEDS
ARC-CP-670 N64-24924 17-03

TWO-DIMENSIONAL BASE FLOW AT SUBSONIC AND TRANSONIC SPEEDS
NPL-AERO-1070 N64-24955 17-11

MEASUREMENT OF AERODYNAMIC COEFFICIENTS OF SMALL ASPECT RATIO AILERONS AT TRANSONIC SPEEDS
ONERA-TN-75 N64-25849 18-03

EFFECT OF SHOCK BOUNDARY LAYER INTERACTION ON AIRFOIL PRESSURE DISTRIBUTION AT TRANSONIC SPEEDS
NAL-TN-AE-16-63 N64-26754 18-02

AERODYNAMIC CHARACTERISTICS OF SLENDER CAMBERED GOTHIC WINGS AT TRANSONIC SPEEDS
ARC-R&M-3370 N64-28083 20-03

DYNAMIC MODELS FOR STUDY OF LAUNCH VEHICLE BUFFETING AT TRANSONIC SPEEDS AND GROUND-WIND LOADS N64-29262 21-33

AERODYNAMIC CHARACTERISTICS OF SLENDER CAMBERED GOTHIC WINGS AT TRANSONIC SPEEDS N64-29331 21-03

SHOCK FORMATION AND GROWTH BY TRANSONIC NONSTEADY MOTION OF VEHICLE IN TUBE N64-30410 22-02

DIRECT OSCILLATORY DERIVATIVE MEASUREMENTS FOR LINEAR BENDING MODE ON RIGID HALF-SPAN MODELS AT SUBSONIC AND TRANSONIC SPEEDS IN CLOSED AND SLOTTED WIND TUNNEL
ARC-R&M-3376 N64-33255 24-02

TRANSONIC WIND TUNNEL
LONGITUDINAL- AND LATERAL-STABILITY TESTS OF DELTA-WING MODEL IN TRANSONIC WIND TUNNEL
ARC-CP-656 N64-13362 04-04

TRANSONIC WIND-TUNNEL STUDY OF LAUNCH TRAJECTORIES OF BEECH XKD2B-1 TARGET DRONE AFTER LAUNCH FROM F3H-2 AIRPLANE
DTMB-AERO-993 N64-16469 08-04

STATIC STABILITY OF SATURN V SCALE MODELS IN TRANSONIC WIND TUNNEL
AEDC-TDR-64-40 N64-17522 09-30

TRANSONIC PRESSURE TUNNEL TEST OF AERODYNAMIC CHARACTERISTICS AND SURFACE PRESSURE MEASUREMENTS FOR MODEL OF RAM B LAUNCH VEHICLE
NASA-TN-D-2204 N64-17747 09-31

TRANSONIC WIND TUNNEL TEST OF SCALE MODEL DE HAVILLAND BLUE STREAK MISSILE - DYNAMIC STABILITY AND STATIC PRESSURE
ARC-CP-734 N64-29234 21-04

STORE PITCH FLEXIBILITY EFFECT ON FLUTTER CHARACTERISTICS OF WING-STORE CONFIGURATIONS IN TRANSONIC WIND TUNNEL
NASA-TN-D-2479 N64-30099 21-33

TRANSONIC BUFFET WIND TUNNEL INVESTIGATION ON SCALE MODEL OF FORWARD PORTION OF GEMINI LAUNCH VEHICLE
LV-279-II N64-31835 23-33

TRANSPARENCY
VERY HIGH FREQUENCY RADIOTELEMETRY IN SIMULATED ANIMAL INTERIOR ENVIRONMENT, AND TRANSPARENCY OF HUMAN BODY TO RADIO WAVES
SAM-TDR-63-80 N64-16642 08-16

SPECTRAL TRANSPARENCY OF ATMOSPHERE TO SOLAR RADIATION
FTD-MT-63-16/1&2 N64-18664 11-12

COMPENSATING PHOTOMETER TO REGISTER AND MEASURE TRANSPARENCY OF ATMOSPHERE
FTD-MT-63-15/1&2 N64-18746 11-21

FORMULA FOR SOLAR RADIATION INTENSITY AND NEW CHARACTERISTIC OF TRANSPARENCY OF AIR
FTD-TT-63-178/1&2 N64-19211 11-12

IDEAL ATMOSPHERE TRANSPARENCY COEFFICIENTS FOR REAL ATMOSPHERE TURBIDITY ESTIMATIONS
N64-26436 18-21

ATMOSPHERE TRANSPARENCY MEASUREMENTS IN SUBMILLIMETER WAVE BAND
NASA-TT-F-8931 N64-27134 19-21

TRANSPARENT MATERIAL
SPECTRAL EMITTANCE OF OPAQUE AND TRANSPARENT MATERIALS FROM 40- TO 200-DEG C
N64-10952 02-13

SILICON PHOTOVOLTAIC CELL FOR MEASUREMENT OF TRANSMITTANCE AND REFLECTANCE OF TRANSPARENT MATERIALS FOR SOLAR RADIATION N64-10955 02-15

USE OF TETRAHEDRONS OF TRANSPARENT MATERIAL AS OPTICAL TRAJECTOGRAPH N64-15474 07-23

ANISOTROPIC AND ISOTROPIC TRANSPARENT POLY-CRYSTALLINE CERAMICS N64-16612 08-19

STRUCTURAL MATERIAL WITH HIGH ENERGY ABSORPTION CAPABILITY AND TRANSPARENCY TO RADIO FREQUENCY TRANSMISSION
NASA-CR-53479 N64-18098 10-09

HYPERVELOCITY IMPACT ON TRANSPARENT PLASTICS - PROJECTILE CRATERING, SHOCK WAVES, & FRACTURING
AEDC-TDR-64-49 N64-20035 13-23

TRANSIENT HYPERVELOCITY IMPACT PHENOMENA IN TRANSPARENT TARGET
BRL-MEMO-1567 N64-28157 20-33

HIGH ENERGY ELECTRON RADIATION EFFECT ON OPTICAL TRANSMISSION OF TRANSPARENT MATERIALS FOR SOLAR CELL SHIELDS N64-29162 21-06

TRANSPIRATION
CF EVAPORATION
FEASIBILITY OF TRANSPIRATION-COOLED NOZZLES
TRW-EB-9209-02 N64-14508 06-27

TRANSPIRATION COOLING WITH CHEMICAL REACTIONS
AEROCHEM-TP-79 N64-15702 07-13

EFFECT OF TRANSPIRATION COOLING ON PARTIALLY DISSOCIATED TURBULENT BOUNDARY LAYER OVER FLAT PLATES
NASA-CR-53247 N64-17576 09-13

POROUS TUNGSTEN TRANSPIRATION COOLED NOZZLE SYSTEM
ER-5209-03 N64-18597 11-27

TRANSPIRATION, EFFUSION, AND MOLECULAR FLOW STUDIES OF THERMODYNAMIC PROPERTIES OF BERYLLIUM COMPOUNDS N64-18813 11-13

TRANSPLANTATION
BONE MARROW TRANSPLANTATION AFTER WHOLE-BODY IRRADIATION OF RAT
EUR-484.E N64-19296 11-14

TRANSPONDER
COMPATIBLE INTERROGATOR-TRANSPONDER TECHNIQUES APPLIED TO AIRBORNE PILOT WARNING INDICATOR AND COLLISION AVOIDANCE SYSTEM - LABORATORY TEST
EB-5261-0341-1 N64-13134 04-10

AN/DPN-66 C-BAND TRANSPONDER FOR RANGE CALIBRATION SATELLITES
AFCRL-63-912 N64-13666 05-09

SATELLITE RATED MISTRAM TRANSPONDER - TRACKING
AFCRL-64-36 N64-18608 11-20

INVESTIGATION OF GLOTRAC TYPE G TRANSPONDER FOR USE IN RANGE CALIBRATION SATELLITE - SIGNAL TRANSMISSION
AFCRL-64-240/A/ N64-18695 11-08

DESCRIPTION OF TRANSPONDERS IN SATELLITE COMMUNICATIONS SYSTEMS
TDR-269/4110-01/-13 N64-19820 12-08

TRANSPONDER FOR RANGE CALIBRATION SATELLITE
GD/A-63-1195/B/ N64-21234 14-15

SPACECRAFT COMMUNICATION TRANSPONDER POWER AMPLIFIER
NASA-CR-56287 N64-23948 16-09

RANGER V SPACECRAFT FLIGHT PATH DETERMINATION FROM TRANSPONDER AND BEACON TRACKING DATA
NASA-CR-56567 N64-24102 16-08

ANTENNA DESIGN - ANTENNAS FOR TELEMETRY, COMMAND CONTROL, AND BEACON TRANSPONDER SYSTEMS
AFCRL-63-594 N64-25723 17-09

PERFORMANCE TEST OF GENERAL AVIATION TRANSPONDERS
RD-64-90 N64-26901 18-15

TRACKING FEASIBILITY, LUNAR TRANSPONDER DESIGN AND FABRICATION, AND LUNAR IMPACT POINT MARKER
GD/A-63-0933 N64-30200 21-15

DESIGN MODIFICATIONS TO LUNAR TRANSPONDER AND FEASIBILITY OF EARTH-BASED TRACKING STATIONS
GD/A-63-0933, VOL. 2 N64-30901 22-08

ADAPTATION OF TRANSPONDER FOR SATELLITE CONTROL
GD/A-63-1195/C/, VOL. I N64-31078 22-32

GLOTRAC TYPE G TRANSPONDER - ELECTROMAGNETIC INTERFERENCE, FILTER REDESIGN, POWER SUPPLY, AND RECEIVED SIGNAL STRENGTH CIRCUIT
GD/A-63-1195/C/, VOL. II N64-31984 23-01

TRANSPORT
SA JET TRANSPORT
SA SUPERSONIC TRANSPORT
MONTE CARLO PROGRAM FOR CALCULATING NEUTRON TRANSPORT IN CYLINDRICALLY SYMMETRIC NERVA CONFIGURATIONS
NASA-CR-55244 N64-13494 05-21

REVERSIBLE OPERATIONAL AMPLIFIER & CHARACTERISTICS OF TRANSPORTATION NETWORK
JPRS-22607 N64-13740 05-09

DETERMINATION OF CHARACTERISTICS OF TRANSPORTATION NETWORK BY VARIATION METHOD FOR USE IN SOLVING TRANSPORTATION PROBLEMS N64-13742 05-09

DERIVING LABORATORY VIBRATION TESTS FROM MEASURED ENVIRONMENTAL CONDITIONS OCCURRING DURING TRANSPORT OF MISSILE SYSTEM N64-20258 13-21

RULES FOR TRANSPORTATION AND SHIPMENT OF RADIOACTIVE MATERIALS
AEC-TR-6315 N64-20477 13-21

DYNAMIC ENVIRONMENT OF SATURN S-IV STAGE DURING TRANSPORTATION N64-23156 16-21

STOL AIRCRAFT FOR USE AS COMMERCIAL SHORT HAUL

TRANSPORT
AIAA PAPER-64-285 N64-23350 16-04

DENSE PHASE TRANSPORT OF POWDERED METALS FOR TRIPROPELLANT ROCKET SYSTEM N64-26666 18-26

MONTE CARLO METHOD FOR ANALYSIS OF GAMMA RADIATION TRANSPORT FROM DISTRIBUTED SOURCES IN SHIELDING OF LAMINATED MATERIAL
FOA-4-A-4354-411 N64-28689 20-20

PILOT MODEL OF TUBE TRANSPORT SYSTEM BASED ON JET ENGINE TRANSFER OF AIR FROM FRONT TO REAR OF VEHICLE N64-30411 22-10

TRANSPORT AIRCRAFT
FUTURE SUPERSONIC TRANSPORT AIRCRAFT AND AIRPORTS
JPRS-22142 N64-11786 03-10

TAKEOFF & LANDING CHARACTERISTICS OF TRANSPORT AIRCRAFT
AGARD-417 N64-11806 03-04

LOWERING MINIMAL WEATHER CONDITIONS FOR SAFE LANDING OF TRANSPORT AIRCRAFT
AGARD-436 N64-14216 06-10

FLIGHT TEST OF PERFORMANCE, HANDLING QUALITIES, AND OPERATIONAL CHARACTERISTICS OF SLIPSTREAM STOL TRANSPORT AIRCRAFT
NASA-TN-D-2231 N64-17726 09-04

LOW SPEED AERODYNAMIC CHARACTERISTICS OF TRANSPORT AIRCRAFT MODEL WITH LARGE BODIES MOUNTED ABOVE FUSELAGE
NASA-TN-D-2205 N64-17748 09-13

BIRD IMPACT RESISTANCE OF WINDSHIELDS FOR HIGH PERFORMANCE TRANSPORT AIRCRAFT
FAA-ADS-8 N64-20628 13-04

PROJECTED SYMBOLIC DISPLAY SYSTEM FOR TRANSPORT AIRCRAFT
ARL/HE-14 N64-21385 14-15

TAKEOFF PERFORMANCE OF SUPERSONIC TRANSPORT CONFIGURATIONS
NASA-TN-D-2308 N64-23024 16-04

FLIGHT TEST OF SCALE MODEL VECTORED-THRUST JET VTOL TRANSPORT AIRCRAFT
NASA-TN-D-2285 N64-26412 18-04

THRUST REQUIREMENTS VTOL SUPERSONIC MILITARY AND TRANSPORT JET AIRCRAFT
DFL-233 N64-27227 19-04

DYNAMIC TESTS OF V/STOL TRANSPORT AIRCRAFT
AIAA PAPER-64-619 N64-27646 19-04

WIND TUNNEL USED TO DETERMINE PERFORMANCE OF SLENDER WINGS SUITABLE FOR SUPERSONIC TRANSPORT AIRCRAFT
ARC-CP-742 N64-28770 20-03

ANNUAL VARIATION OF FLIGHT PERFORMANCE OF VISCOUNT TRANSPORT AIRCRAFT RECORDED BY FATIGUE TESTING MACHINE
ARC-CP-667 N64-28851 20-04

STABILITY & CONTROL OF 4-PROPELLER, TILT-WING V/STOL SCALE MODEL TRANSPORT AIRCRAFT
NASA-TN-D-2443 N64-30096 21-04

TRANSALL C-160 MILITARY TRANSPORT PLANE - EJECTION BY PARACHUTE OF LIGHT ARTILLERY PIECES
FTD-TT-63-790/1&2 N64-30564 22-04

WIND TUNNEL TESTS OF WING STALL, PERFORMANCE, AND LONGITUDINAL STABILITY & CONTROL OF LARGE MODEL V/STOL TILT WING TRANSPORT AIRCRAFT
NASA-TN-D-1857 N64-30995 22-04

TRANSPORT COEFFICIENT
ALTERNATING DIRECTION METHOD FOR OPERATORS WITH APPLICATION TO TRANSPORT EQUATION
NAPD-TM-391 N64-10429 01-20

ELECTRICAL TRANSPORT EQUATION EXTENDED TO COLLISION FREQUENCY AND FINITE WAVELENGTH FOR PLASMA MODEL
MATT-216 N64-11279 02-24

INTERACTION ENERGY LEVELS AND TRANSPORT COEFFICIENTS OF LITHIUM-HYDROGEN AND OXYGEN-HYDROGEN GAS MIXTURES AT HIGH TEMPERATURES N64-15275 07-23

TRANSPORT EQUATIONS FOR PARTIALLY IONIZED GAS IN ELECTRIC FIELD DERIVED FROM BOLTZMANN EQUATION
NASA-TN-D-2279 N64-19291 11-11

MOMENTUM TRANSFER AND INELASTIC COLLISION CROSS SECTIONS FOR ELECTRONS IN NITROGEN USING TRANSPORT COEFFICIENTS
TDS-64-928-113-P4 N64-25502 17-23

COMPUTATION METHODS FOR TRANSPORT COEFFICIENTS OF PARTIALLY IONIZED GAS
NASA-RP-231 N64-26401 18-24

TRANSPORT EQUATION
GAPLSN - PROGRAM FOR SOLVING ONE-DIMENSIONAL NEUTRON AND PROTON TRANSPORT PROBLEMS
GA-4972 N64-19714 12-20

NUMERICAL SOLUTION OF NEUTRON TRANSPORT PROBLEMS
LA-2996 N64-19947 12-23

ALGORITHM FOR SOLVING TRANSPORT PROBLEMS IN LINEAR PROGRAMMING
FTD-TT-62-1498/1 N64-23399 16-20

VORTICITY TRANSPORT EQUATIONS RELATIVE TO INITIAL AND BOUNDARY CONDITION PERTURBATIONS N64-27939 20-21

TRANSFORMATION OF TRANSPORT EQUATION FOR SOLVING DEEP PENETRATION PROBLEMS BY MONTE CARLO METHOD N64-28977 20-20

MULTIGROUP ONE-DIMENSIONAL SPHERICAL HARMONIC SOLUTIONS TO BOLTZMANN TRANSPORT EQUATION
IDO-16998 N64-31062 22-23

SPECTRAL ANALYSIS OF TRANSPORT KERNEL FOR ANISOTROPIC NEUTRON SCATTERING IN FINITE SLABS
RM-3807-PR N64-31176 22-23

MODIFIED LEGENDRE POLYNOMIAL APPROXIMATIONS TO NEUTRON TRANSPORT EQUATION FOR SLAB GEOMETRIES
DTMB-1814 N64-31298 22-23

TRANSPORT PROPERTY
SA DIFFUSION
SA HEAT TRANSFER
SA KINETIC THEORY
TRANSPORT PHENOMENA IN PURE & DOPED MAGNESIUM OXIDE - ACTIVATION ENERGY
NASA-RP-46 N64-10074 01-19

SILVER MIGRATION AND TRANSPORT MECHANISM IN SILVER OXIDE-ZINC BATTERIES
ASD-TDR-63-863 N64-10548 01-06

TRANSPORT PROPERTIES AND SCATTERING IN MOLECULAR GASES
NASA-CR-52874 N64-11295 02-23

TRANSPORT OF CHEMICALLY REACTING MOLECULES IN CAPILLARIES OF CIRCULATORY SYSTEM
NASA-TN-D-2063 N64-11556 03-07

SQUID PROJECT FLUID MECHANICS, TRANSPORT AND TRANSFER PROCESSES, CHEMICAL KINETICS, AND COMBUSTION PHENOMENA
AD-420576 N64-13476 05-01

THERMODYNAMIC & TRANSPORT PROPERTIES OF GASES AT HIGH TEMPERATURES AND PRESSURES - SQUID PROJECT N64-13480 05-24

TRANSPORT PROPERTIES OF P-TYPE LEAD TELLURIDE
NASA-TM-X-51388 N64-14280 06-25

CONDUCTIVITY AND TRANSPORT NUMBERS FOR ZIRCONIUM OXIDE-CALCIUM OXIDE CERAMIC SYSTEMS
FTD-TT-62-1275/1&2&4 N64-14907 06-23

TRANSPORT MECHANISM OF SILVER IN SILVER-ALKALINE CELLS AND SILVER INTERACTION WITH SEPARATOR MATERIALS N64-17418 09-06

THERMODYNAMIC AND TRANSPORT PROPERTIES OF LIQUID AND VAPOROUS POTASSIUM
NASA-CR-54017 N64-18293 10-18

FLUID MECHANICS, TRANSPORT PROPERTIES, CHEMICAL REACTION KINETICS, AND COMBUSTION - SQUID PROJECT
AD-435879 N64-18851 11-24

THERMODYNAMIC AND TRANSPORT PROPERTIES OF GASES AT HIGH TEMPERATURES AND PRESSURES - SQUID PROJECT
N64-18856 11-24

DERIVATION OF SECOND AND THIRD VIRIAL COEFFICIENTS FOR COMPUTATION OF THERMODYNAMIC AND TRANSPORT PROPERTIES OF HYDROGEN N64-20595 13-23

RELAXATION EFFECTS IN TRANSPORT PROPERTIES OF GAS OF ROUGH SPHERES
NASA-CR-56553 N64-23525 16-23

TRANSPORT PROPERTIES OF ATMOSPHERIC OZONE IN STRATOSPHERE N64-24477 17-21

TRANSPORT PROPERTIES OF PARTIALLY IONIZED GAS IN ELECTRIC AND MAGNETIC FIELDS
NASA-TN-D-2369 N64-24820 17-13

TRANSPORT PROPERTIES OF MIXTURES OF HELIUM AND PARTLY IONIZED ARGON
AEL-673 N64-25034 17-24

STABILITY OF COMBUSTION SYSTEM & TRANSPORT PROPERTIES OF GASES
NASA-CR-56933 N64-25555 17-26

THERMODYNAMIC AND TRANSPORT PROPERTIES FOR HYDROGEN-OXYGEN SYSTEM
NASA-SP-3011 N64-26785 18-26

DEPENDENCE OF ELECTRICAL CONDUCTIVITY AND HALL COEFFICIENT OF GRAY TIN ON PRESSURE AND TEMPERATURE
HP-10 N64-26854 18-25

THERMOPHYSICAL AND TRANSPORT PROPERTIES OF LIQUID METALS
NSAR-64-36 N64-27702 19-13

TRANSPORT PROPERTIES OF PARTIALLY IONIZED GAS IN PRESENCE OF ELECTRIC AND MAGNETIC FIELDS
NASA-CR-58210 N64-27878 20-24

TRANSPORT PROPERTIES OF NITROGEN AND AIR AT HIGH TEMPERATURES N64-28185 20-11

TURBULENT TRANSPORT PROPERTIES FOR AXISYMMETRIC HETEROGENEOUS MIXING OF TWO COAXIAL FLOWS
ARL-64-103 N64-28551 20-11

PHOTOMAGNETOELECTRIC DETECTOR OF CADMIUM SULFIDE SINGLE CRYSTALS AND TRANSPORT PROPERTIES OF ROLLED THIN BISMUTH FOIL
RADC-TDR-64-349 N64-28560 20-25

THERMODYNAMIC, MECHANICAL, MAGNETIC, AND TRANSPORT PROPERTIES OF GROUP V AND VI ANIONS
ANL-6856 N64-28727 20-25

DIFFERENCES IN THERMODYNAMIC AND TRANSPORT PROPERTIES BETWEEN CARBON DIOXIDE AND NITROGEN - LOW DENSITY WIND TUNNEL NOZZLE DESIGN
NASA-CR-58314 N64-29359 21-34

BIBLIOGRAPHY ON GROUPS IV, V, AND VI TRANSITION METALS - PREPARATION METHODS, CRYSTAL STRUCTURE, PHASE TRANSITIONS, AND PHYSICAL, MECHANICAL, AND TRANSPORT PROPERTIES
ORNL-RMIC-3 N64-31466 23-25

TRANSPORT PROPERTIES OF SEMICONDUCTOR COMPOUNDS FOR APPLICATIONS TO THERMOELECTRICITY
TRECOM-TR-64-35 N64-31905 23-25

TRANSPORT THEORY
SA INTEGRAL EQUATION

NEUTRON SCATTERING IN FREDHOLM INTEGRAL EQUATIONS FOR TRANSPORT SOLUTION OF MONOENERGETIC CRITICAL PROBLEMS
ANL-6787 N64-11790 03-27

INTEGRO-DIFFERENTIAL EQUATION DESCRIPTION OF ONE-DIMENSIONAL PARTICLE FLUX TRANSPORT PROCESSES
RM-3862-ARPA N64-14816 06-23

SILVER MIGRATION AND TRANSPORT MECHANISM STUDIES IN SILVER OXIDE-ZINC BATTERIES
AD-296894 N64-15692 07-07

ELECTROLYTE TRANSPORT MECHANISM OF SILVER-CADMIUM ALKALINE CELL DURING CHARGE-DISCHARGE CYCLE
AD-404628 N64-15693 07-08

MATHEMATICAL SOLUTIONS FOR TRANSPORT PROBLEMS
JPRS-22919 N64-16226 08-20

SOLUTION OF TRANSPORT PROBLEM WITH CONTINUOUS DISTRIBUTION OF CONSUMERS N64-16227 08-20

LINEAR PROGRAMMING FOR SOLUTION OF TRANSPORT PROBLEM OF PRODUCTION AND DELIVERY
N64-16228 08-20

OPTIMAL SOLUTION TO TRANSPORTATION PROBLEM - TRANSPORT THEORY
ONR-RM-86 N64-16863 08-20

MATHEMATICAL MODEL OF MATERIAL TRANSPORT IN CHEMICAL EQUIPMENT N64-17347 09-07

ANISOTROPIC SCATTERING APPROXIMATIONS IN BOLTZMANN NEUTRON TRANSPORT EQUATION
LA-3051 N64-20826 14-23

TRANSPORT THEORY AND RADIATION CHART FOR OZONE IN ATMOSPHERE N64-24476 17-21

INVARIANT IMBEDDING AND TIME DEPENDENT TRANSPORT PROCESSES STUDIED USING LAPLACE TRANSFORM
R-423-ARPA N64-24939 17-29

APPLICATION OF PRINCIPLE OF INVARIANT IMBEDDING TO PROBLEMS IN TRANSPORT THEORY - HAMILTON EQUATION OF MOTION
RM-3538-PR N64-25740 17-23

CALCULATION OF FISSION-SOURCE THERMAL-NEUTRON DISTRIBUTION IN WATER BY TRANSPORT AND DIFFUSION THEORIES - TRANSFUSION METHOD
ORNL-3487 N64-27517 19-23

TUBE TRANSPORTATION SYSTEM FOR SELF-PROPELLED VEHICLES AT SUPERSONIC SPEEDS
TR-AE-6406 N64-30401 22-02

TRANSPORT VEHICLE
TRANSPORTATION-VIBRATION TEST FOR SHIPPING AND STORAGE CONTAINERS OF PERSHING MISSILE SYSTEM
RT-TR-63-10 N64-12223 03-04

LAND TRANSPORTATION SYSTEMS ANALYSIS - DERIVATION OF EQUATIONS OF MOTION FOR VEHICLE-PROPULSION SYSTEM COMBINATIONS
RM-3966-RC N64-20410 13-10

DESIGN STUDY OF ONE-MAN VEHICLE FOR SHUTTLE TRANSPORT OF PERSONNEL AND MATERIALS BETWEEN ORBITING SPACECRAFT
RTD-TDR-63-4057 N64-25776 17-30

MISSION APPLICATIONS OF REUSABLE SPACECRAFT AS ORBITAL AND GLOBAL RANGE TRANSPORTS
AIAA PAPER-64-770 N64-28306 20-30

DESIGN CONCEPT FOR ORBITAL/GLOBAL ROCKET TRANSPORT - PEGASUS VEHICLE
DOUGLAS PAPER-1980 N64-28807 20-32

TRANSPORTATION
CF HANDLING EQUIPMENT
CF LOGISTICS
FORECAST OF NATIONAL FREIGHT AND PASSENGER TRANSPORTATION NEEDS
NASA-CR-57005 N64-25006 17-01

OVERALL DIMENSIONS AND CONDITIONS FOR TRANSPORTING DIMENSIONLESS LOADS - RAILROAD EQUIPMENTS AND INSTALLATIONS
FTD-TT-64-621/162 N64-26166 18-01

DYNAMIC STABILITY OF TOWED PARAGLIDER AIR CARGO DELIVERY SYSTEM
NASA-TN-D-2292 N64-26416 18-04

PLANETARY TRANSPORTATION SYSTEM MODEL
N64-26991 19-29

BASIC PLANETARY TRANSPORTATION SYSTEM MODEL
N64-26992 19-29

RECOMMENDATIONS FOR FUTURE STUDIES OF TUBE-TYPE TRANSPORTATION SYSTEMS N64-30412 22-10

TRANSURANIUM ELEMENT
TRANSURANIUM PROCESSING PLANT - SEPARATION AND RECOVERY OF VERY HEAVY ACTINIDE ELEMENTS
ORNL-3597 N64-21617 15-07

CHEMISTRY AND ATOMIC ENERGY - NUCLEAR REACTOR FUEL AND WASTE PROCESSING, TRANSURANIUM ELEMENTS, FISSION PRODUCT EXTRACTION, RADIATION EFFECTS, AND DECONTAMINATION
ORNL-3627 N64-31061 22-07

CHEMICAL AND PHYSICAL PROPERTIES OF URANIUM AND TRANSURANIC ELEMENTS - MANUFACTURING PROCESSES
AEC-TR-6421 N64-33013 24-07

TRANSVERSE VIBRATION
EFFECT OF LONGITUDINAL INERTIA FORCES ON NATURAL TRANSVERSE VIBRATIONAL FREQUENCIES OF BEAM WITH CONSTANT ACCELERATION BY FORCE AT ONE END
TDR-169/3560-30/TN-6 N64-14994 06-33

EQUATIONS OF TRANSVERSE VIBRATIONS OF LIQUID-FILLED SHELLS
NASA-TT-F-216 N64-25179 17-33

TRANSVERSE VIBRATIONS OF SPINNING ANNULAR ELASTIC MEMBRANE WITH FREE EDGES
SUDAER-184 N64-26809 18-33

TRANSVERSE VIBRATION IN FLUID - APPLICATION TO FLUTTER ANALYSIS
ONERA-TP-160/1964/ N64-33053 24-11

TRANSVERSE WAVE
ANALOGOUS PROPAGATION MODES OF TRANSVERSE WAVES IN INHOMOGENEOUS PLASMA AND TAPERED WAVEGUIDE
RATT-237 N64-18341 10-24

TRANSVERSE WAVE PROPAGATION IN PLASMA
N64-20759 14-24

WAVE TRANSFORMATION ON PLASMA BOUNDARY IN MAGNETIC FIELD N64-23789 16-24

DISPERSION EQUATION FOR PLANAR MODEL OF TRANSVERSE WAVE INTERACTIONS IN M-TUBE - ELECTRON TUBE
N64-27162 19-09

USE OF BOLTZMANN EQUATION TO DERIVE DISPERSION LAW FOR COLLISIONS IN LONGITUDINAL PLASMA WAVES AND TRANSVERSE WAVE PROPAGATION
DI-82-0273 N64-29898 21-24

DYNAMICS OF IONIZING SHOCK WAVES - TRANSVERSE SHOCKS
REPT.-7 N64-31329 22-24

TRANSVERSE WAVE PHOTOTUBE AND BIREFRINGENT DISCRIMINATOR IN LIGHT FREQUENCY MODULATION DETECTION
IER-5 N64-31705 23-23

TRAP PROGRAM
PERFORMANCE EVALUATION OF TRAP PROGRAM ORTHICON TUBE SYSTEM
R63SD1042 N64-22221 15-15

TRAPPED RADIATION
CF RADIATION BELT
TRAPPED RADIATION AND IONOSPHERIC PERTURBATIONS DUE TO FISSION NEUTRON SOURCE - NUCLEAR TESTING
D1-82-0241 N64-10150 01-23

VAN ALLEN TRAPPED RADIATION BELTS & EFFECT OF SPACE RADIATION ON SNAP REACTOR SYSTEMS - BIBLIOGRAPHY
NAA-SR-7849 N64-20529 13-12

TRAPPED RADIATION MEASUREMENTS BY RELAY 1 SATELLITE
NASA-CR-59023 N64-33123 24-28

TRAUMA
BIOMEDICAL EVALUATION OF BURN SHOCK AGAINST BACKGROUND OF RADIATION EFFECT N64-10009 01-16

TRAUMATIC SHOCK CAUSED BY SOFT TISSUE COMPRESSION IN RABBITS AFTER ACUTE RADIATION INJURY
JPRS-22001 N64-10393 01-16

ASCORBIC ACID PROPHYLAXIS AND TREATMENT FOR ILLNESS, TRAUMA, EXPOSURE TO COLD WEATHER, AND EXTREME PHYSICAL EXERCISE
AD-429526 N64-25323 17-16

TRAVELING SALESMAN PROBLEM
SOLUTION OF TRAVELING-SALESMAN PROBLEM BY INTEGER LINEAR PROGRAMMING N64-16229 08-20

TRAVELING SOLVENT METHOD
S SOLVENT

TRAVELING WAVE
SA TRAVELING WAVE TUBE
INSTANTANEOUS BROADBAND TRAVELING WAVE MASER SYSTEM - REQUIREMENTS FOR STRUCTURE AND MAGNETIC FIELD
RADC-TDR-63-461 N64-12592 04-25

USE OF TRAVELING WAVEGUIDE IN PASS-BAND REGION AS WIDEBAND ACCELERATING STRUCTURE FOR PROTON SYNCHROTRON
CERN-64-10 N64-18122 10-23

OPERATION OF S-BAND TRAVELING-WAVE MULTIPLE-BEAM KLYSTRON
AD-433620 N64-18310 10-09

TRAVELING WAVE PROPAGATION GUIDED ALONG RADIATION FIELD OF OPEN AND CLOSED RADIATING STRUCTURES
PIBMRI-1008-62 N64-18880 11-23

SOLID STATE & TRAVELING WAVE MASER TECHNIQUES
RADC-TDR-64-115 N64-19674 12-25

DESIGN AND FABRICATION OF TRAVELING WAVE MASER SYSTEM USING SUPERCONDUCTING MAGNET
REPT. 5945-3 N64-19727 12-25

COIL-SYSTEM DESIGN PARAMETERS FOR CONSTANT VELOCITY TRAVELING-MAGNETIC-WAVE PLASMA ENGINE
NASA-TN-D-2278 N64-20283 13-27

ATTENUATION OF TRAVELING WAVES IN SEMI-INFINITE COMPOSITE BAR
AD-431282 N64-22046 15-33

NOISE PERFORMANCE OF TRAVELING WAVE MASERS
NASA-CR-56283 N64-22454 15-08

SOLID STATE AND TRAVELING WAVE MASER TECHNIQUES
RADC-TDR-64-226 N64-25795 17-25

TRAVELING WAVE SEPARATOR FOR LINEAR ACCELERATOR
SLAC-17 N64-26791 18-23

RADIATION PATTERN AND DRIVE POINT IMPEDANCE OF TRAVELING WAVE ANTENNA FOR RADIO ASTRONOMY
NASA-CR-56937 N64-27882 20-08

CHROMIUM DOPED RUTILE TRAVELING WAVE MASER
NASA-TN-D-2490 N64-29453 21-25

TRAVELING WAVE RING LASER FOR ROTATION SENSING
AD-1272-0011 N64-33275 24-15

TRAVELING WAVE AMPLIFIER
TRAVELING WAVE MASER FOR SATELLITE COMMUNICATION GROUND STATION RECEIVER - TELSTAR SATELLITE
N64-11089 02-09

HOLLOW ELECTRON BEAM, DISC-LOADED COAXIAL-LINE, TRAVELING-WAVE AMPLIFIER
SEL-63-139 N64-24396 17-09

COHERENT ELECTROMAGNETIC ENERGY GENERATION AND AMPLIFICATION IN EXTREMELY HIGH FREQUENCY BAND AND ANALYSIS OF AMPLITUDE & PHASE MODULATED TRAVELING WAVE AMPLIFIERS
REPT.-05772 N64-32282 23-23

LOW NOISE KA-BAND RECEIVING SYSTEM USING TUNABLE TRAVELING WAVE MASER AND RADIOMETER
REPT.-8298-1 N64-32594 23-08

TRAVELING WAVE TUBE
CF ELECTRON TUBE
AMPLIFIER DESIGN OF TRAVELING-WAVE TUBE FOR TELSTAR SATELLITE N64-11083 02-09

GROUND STATION HIGH-POWER TRAVELING-WAVE TUBE - TELSTAR SATELLITE COMMUNICATIONS N64-11087 02-09

ELIMINATION OF FAILURE MECHANISMS BY RESIDUAL GASES IN TRAVELING-WAVE TUBES
RADC-TDR-63-423 N64-11542 03-09

DIGITAL COMPUTER PROGRAM FOR NONLINEAR PHENOMENON IN TRAVELING WAVE DEVICES AND KLYSTRONS
RADC-TDR-63-398 N64-12651 04-23

TRAVELING-WAVE PHOTOTUBE CAPABLE OF PHOTOMIXING OPTICAL SIGNALS OF DIFFERING FREQUENCY CONTENT
AFCRL-63-379 N64-12676 04-09

HOLLOW AND SOLID BEAM INTERACTION STRUCTURE FOR TRAVELING WAVE TUBES
ASD-TDR-63-569 N64-13769 05-09

LOW NOISE TRAVELING-WAVE TUBES - ENVIRONMENTAL TESTING
AD-427547 N64-13962 05-09

TRAVELING-WAVE MASER USING RUBY & SLOW-WAVE STRUCTURE AT X-BAND FREQUENCIES
TR-63 N64-14354 06-25

TWO-DIMENSIONAL LARGE-SIGNAL ANALYSIS FOR KLYSTRONS & TRAVELING WAVE TUBES
RADC-TDR-63-519 N64-14496 06-09

2.5 WATT X-BAND TRAVELING-WAVE TUBE AMPLIFIER FOR SATELLITE COMMUNICATION SYSTEMS N64-15265 07-09

OSCILLATION IN TRAVELING WAVE TUBES - KLYSTRONS & ELECTRON GUNS
RADC-TDR-64-58 N64-18651 11-09

DESIGN AND CONSTRUCTION OF TWO-HELIX TRAVELING WAVE TUBE MIXER
NA-8220-8366 N64-19659 12-09

RESIDUAL GAS EFFECTS ON DEGRADATION AND FAILURE IN TRAVELING-WAVE TUBES N64-20988 14-09

PPM-FOCUSED LOW-NOISE TRAVELING-WAVE TUBES FOR KU-, KA-, AND K-BANDS
HEC-QTR-NOBSR-89323-2 N64-21332 14-09

FAILURE MECHANISMS CAUSED BY RESIDUAL GASES IN TRAVELING WAVE TUBES
RADC-TDR-64-107 N64-21459 14-09

LARGE SIGNAL PHENOMENA IN TRAVELING-WAVE TUBE AND KLYSTON
RADC-TDR-64-108 N64-22277 15-08

TRAVELING WAVE TUBE IN REENTRANT MODE FOR FREQUENCY CONVERSION & AMPLIFICATION SERRODYNE SYSTEM
NASA-TN-D-2149 N64-22669 15-08

MICROSCOPIC INSPECTION OF BRAZING AND WELDING JOINTS, AND STRUCTURAL DYNAMICS OF TRAVELING WAVE TUBE
AD-601466 N64-22703 15-17

SOLUTION OF TRAVELING WAVE TUBE EQUATIONS WITH AID OF TRIGONOMETRIC SERIES N64-23795 16-09

FORTRAN COMPUTER PROGRAMS FOR ANALYSIS OF ELECTRON GUNS, KLYSTRONS, AND TRAVELING WAVE TUBES
RADC-TDR-64-119 N64-23956 16-23

DOUBLE OCTAVE BANDWIDTH TRAVELING WAVE TUBE AMPLIFIER
RADC-TDR-64-199 N64-23963 16-09

LOW NOISE, MULTIPLE FUNCTION, X-BAND TRAVELING WAVE TUBE
REPT.-87535-Q7 N64-24448 17-09

MILLIMETER LOW NOISE TRAVELING WAVE AMPLIFIER
REPT.-8 N64-25079 17-09

STABILITY IN HIGH POWER TRAVELING-WAVE TUBE WITH COUPLED CAVITY STRUCTURES
RADC-TDR-64-172 N64-25237 17-09

L BAND MICROWAVE AMPLIFIER FOR USE IN PHASED ARRAY RADAR SYSTEMS - FOCUSING OF TRAVELING WAVE TUBE
MTPR-22 N64-26643 18-09

TWO DIMENSIONAL ANALYSIS FOR LARGE-SIGNAL PHENOMENA IN TRAVELING WAVE TUBES AND KLYSTRONS
RADC-TDR-64-231 N64-26921 18-09

SHAPED FIELD HOLLOW BEAM ELECTRON GUN FOR INTERMEDIATE AND HIGH POWER TRAVELING WAVE TUBES
NJ-2761-0173-1 N64-28238 20-10

TRAVELING WAVE TUBE WITH NONPERIODIC DIELECTRIC CIRCUITS
ONR-7 N64-28614 20-09

TRAVELING-WAVE TUBE OPERATION IN SECOND PASS BAND OF DIAPHRAGMED WAVEGUIDE N64-29461 21-09

TRAVELING WAVE TUBE OPERATION NEAR PASS BAND BOUNDARY N64-29462 21-09

CONTINUOUS TRAVELING WAVE TUBE FOR SATELLITE COMMUNICATIONS
REPT.-3 N64-29642 21-09

LOW NOISE, MULTIPLE FUNCTION, X-BAND TRAVELING WAVE TUBE
IDR-3 N64-29661 21-09

RADIO ELECTRONICS - TRAVELING WAVE TUBES, RADIO WAVES, EXCITATION OF SURFACE ELECTROMAGNETIC WAVES, FERRITE PHASE SHIFTERS FOR CENTIMETER BAND, AND PARAMETRIC AMPLIFIERS
JPRS-26492 N64-31351 23-09

EFFECT OF BEAM CURRENT DECREASE ALONG SLOW WAVE SYSTEM ON OPERATION OF BACKWARD WAVE AND TRAVELING WAVE TUBES N64-31352 23-09

FILLING FACTOR EFFECT OF DRIFT CHANNEL ON TRAVELING WAVE TUBE EFFICIENCY - ESTIMATE WITH TUBULAR ELECTRON BEAM N64-31360 23-09

TRAVELING WAVE TUBE AND EXPERIMENTAL PULSE FINAL AMPLIFIER TUBES FOR HIGH POWER V-BAND
NA-8220-8367 N64-32222 23-09

LOW NOISE TRAVELING WAVE TUBES - ENVIRONMENTAL AND ELECTRICAL TESTS
HEC-MTR-NOBSR-81227-20 N64-32721 24-09

L-BAND TRAVELING WAVE TUBE FOR APPLICATION IN PHASED ARRAY RADAR SYSTEMS
AD-600312 N64-33050 24-09

TREATMENT
S HEAT TREATMENT
S SURFACE TREATMENT
S THERAPY

TREE
SOLAR ACTIVITY EFFECT ON ANNUAL RING GROWTH OF TREES
NASA-TT-F-9011 N64-22942 16-21

TRIANGULAR WING
GAS FLOW PAST BLUNT BODIES & TRIANGULAR WING AND ITERATIVE SOLUTION OF LINEAR BOUNDARY PROBLEM
FTD-TT-62-1582/1&2 N64-12482 04-01

SUPERSONIC FLOW OF IDEAL GAS PAST PLANE TRIANGULAR WING WITH POSITIVE ANGLE OF ATTACK
N64-12485 04-03

TRIANGULATION
CF NAVIGATION
TRIANGULATION IN GEODETIC SURVEYING OF HUNGARY
JPRS-21748 N64-10120 01-12

DIAL ORIENTATION & TERRESTRIAL PERSPECTIVE POINT PHOTOGRAMMETRIC COMPUTATIONS FOR POSITION TRIANGULATION
MTC-TDR-63-7 N64-12191 03-12

HOMOLOGY THEORY APPLIED TO ISOTOPY OF FINITE SPACES SUBJECT TO TRIANGULATION
AROD-2663-4 N64-13147 04-23

IMPROVED ACCURACY OF ANALYTICAL AERIAL PHOTOGRAMMETRIC TRIANGULATION PROBLEM BY INCLUDING ERROR CORRECTION IN COMPUTER PROGRAM
R62-4 N64-14014 05-20

GEODETIC TRIANGULATION SURVEY IN JAPAN
N64-14161 05-12

COMPUTER TECHNIQUE FOR SOLVING SYSTEM OF NORMAL EQUATIONS ARISING FROM ANALYTICAL PHOTOGRAMMETRIC MULTIPLE STATION AEROTRIANGULATION
RADC-TDR-63-476 N64-14298 06-20

TRIANGULATION, GEODETIC LEVELING & ASTRONOMY, AND GRAVIMETRY IN GREAT BRITAIN N64-14460 06-12

EARTH MEASUREMENT - HISTORY, TRIANGULATION, LEVEL GAUGE, ASTRONOMIC-GEODETIC SURVEYING, DETERMINING GEOID, AND GRAVIMETRY N64-16201 08-12

STAR POSITION CATALOG PREPARATION AND REVISION OF ASTRONOMIC LATITUDES, LONGITUDES, AND AZIMUTHS FOR TRIANGULATION
JPRS-24729 N64-20819 14-05

BALLISTIC CAMERA TECHNIQUE OF PHOTOGRAMMETRIC TRIANGULATION AS GEODETIC TOOL N64-29107 21-08

PHOTOGRAPHIC INSTRUMENTATION FOR TRIANGULATION STUDIES OF LUMINOUS CLOUDS IN UPPER ATMOSPHERE
N64-30794 22-15

SIMULTANEOUS TRACKING OF ECHO I SATELLITE FOR GEODETIC PURPOSES - CELESTIAL TRIANGULATION
NASA-TT-F-8954 N64-30847 22-08

TRIAXIALITY
TRIAXIAL BALANCING TECHNIQUES FOR SPACECRAFT
NASA-TN-D-2144 N64-17155 09-30

TRIBOLIUM
EFFECTS OF ION BOMBARDMENT OF EMBRYONIC SITES ON WING GROWTH OF CONFUSED FLOUR BEETLE
N64-27513 19-16

TRIGATRON
TRIGATRONS WITH SWITCHING CAPABILITIES TO 50 KV
TR-314 N64-14355 06-09

TRIGONOMETRIC FUNCTION
TRIGONOMETRIC FUNCTIONS FOR CORRECTION OF SOLAR FLARE DISTRIBUTION AREA
AD-437509 N64-19638 12-28

TABLE OF NUMERICAL CALCULATIONS OF SINE SQUARED THETA VS THETA AND TWO-THETA - TRIGONOMETRIC FUNCTION
IS-842 N64-21204 14-20

MATHEMATICAL TABLE OF TRIGONOMETRIC FUNCTIONS DESIGNED FOR DESK CALCULATOR TRANSFORMATION OF ARTIFICIAL EARTH SATELLITE COORDINATES
N64-21836 15-20

SINE AND COSINE GENERATORS FOR ANALOG COMPUTER USING DIODE SWITCHING CIRCUITS
ANL/I-63 N64-27406 19-09

PRECISION OF RECORDING PULSED ACCELERATIONS USING TRIGONOMETRIC FUNCTIONS N64-27464 19-23

NATURAL TRIGONOMETRIC FUNCTIONS /SINE, COSINE, AND TANGENT/ OF ANGLES FROM 0 TO 360 DEGREES IN INCREMENTS OF 0.0002 RADIAN
ABL/X-111 N64-29242 21-20

TRIGONOMETRY
LIGHT IMPULSE LOCATOR AND TRIGONOMETRIC DEVICES FOR MEASURING HEIGHT OF CLOUD BASES
N64-12792 04-21

SOLUTION OF TRAVELING WAVE TUBE EQUATIONS WITH AID OF TRIGONOMETRIC SERIES N64-23795 16-09

PROPERTIES OF FUNCTIONS DEFINED BY TRIGONOMETRIC SERIES WITH MONOTONIC DECREASING COEFFICIENTS
N64-31745 23-20

TRIM
SYSTEMS FOR BALANCING AND DETERMINING TRIM OF FLOAT-TYPE GYROSCOPES
FTD-TT-62-1880/1&2&4 N64-16404 08-22

TRIM STATE AND LONGITUDINAL STABILITY OF SLENDER INTEGRATED FLEXIBLE AIRCRAFT CONFIGURATION
ARC-R&M-3345 N64-18326 10-04

TRINITROTOLUENE /TNT/
CASTING TECHNIQUES AND DETONATION TESTS OF TNT SPHERES
SES-TP-288 N64-13911 05-26

EXPLOSIVE REACTIONS IN CONDENSED SYSTEMS - KINETICS OF THE THERMAL DECOMPOSITION OF TRINITROTOLUENE
TIL/T-5435 N64-21400 14-07

TRIODE
SA ELECTRON TUBE
MAGNETIC FIELD TRIODE FOR THERMIONIC CONVERTERS
OVL-289 N64-13348 04-23

BROADBAND LOW NOISE MICROWAVE AMPLIFIER USING CERAMIC TRIODES
RE-TR-63-32 N64-17324 09-09

FIELD EFFECT TRIODES AND SPACE CHARGE LIMITED TRIODES
REPT.-4 N64-25514 17-09

TRIODE AMPLIFIERS - OUTPUT VOLTAGE TRANSIENTS INDUCED BY PULSED NEUTRON AND GAMMA RADIATION
TR-1197 N64-26249 18-09

MINIMUM POWER DENSITY AND FREQUENCY RESPONSE RATIO FOR SEMICONDUCTOR TRIODE AMPLIFIER
N64-26440 18-09

SENSITIVITY OF DRIFT TYPE OF PHOTOTRIODE
N64-29129 21-15

TRIPLET STATE
TRIPLET-TRIPLET ENERGY TRANSFER IN GLASSES - SOLVENT EFFECT
TDR-269/4240-30/-1 N64-12185 03-23

DECAY OF TRIPLET STATE OVER VISCOSITY-TEMPERATURE RANGE OF SOME AROMATIC COMPOUNDS IN SOLUTION
AFCRL-63-923 N64-13759 05-23

POTENTIAL ENERGY CURVE OF LOWEST LYING TRIPLET SIGMA STATE OF LITHIUM HYDRIDE COMPUTED BY VARIATIONAL TECHNIQUE
NASA-CR-53060 N64-15785 07-25

OPERATOR STRUCTURE IN SYSTEMATIC UNITARY SYMMETRY WITH APPLICATION TO TRIPLETS N64-17025 09-23

PARAMAGNETIC RESONANCE OF TRIPLET STATE CYANOMETHYLENE
AROD-3192-3 N64-25401 17-07

TRIPLET REPRESENTATIONS IN UNITARY SYMMETRY THEORIES
UR-875-27 N64-26685 18-23

ELECTRON PARAMAGNETIC RESONANCE TECHNIQUES FOR TRIPLET-STATE MOLECULE OBSERVATIONS IN SENSITIZED SOLVENT DECOMPOSITION
SSD-TDR-64-97 N64-30984 22-23

TRITIUM
CF ISOTOPE
HEALTH AND SAFETY PROCEDURES FOR HIGH ENERGY ELECTRON SCATTERING FROM TRITIUM GAS
LAMS-2959 N64-12113 03-16

RADIATION HAZARD TO PERSONNEL DUE TO TRITIUM DIFFUSION IN GLOVE BOX OPERATIONS
LMS-2962 N64-13165 04-16

BIBLIOGRAPHY ON TRITIUM RADIATION PROTECTION
LAMS-2946 N64-18094 10-16

TRITIUM, HYDROGEN, AND NITROGEN CONVERSION
NASA-CR-53424 N64-18121 10-12

ORTHO- AND PARA-TRITIUM IN HOMOGENEOUS GAS AND SOLID PHASES
N64-18136 10-23

CONDUCTIVE ADHESIVES, HALF-LIVES AND SEPARATION OF RADIOACTIVE ISOTOPES, NEUTRON AND ALPHA SOURCES, AND LOW LEVEL TRITIUM COUNTING
MLM-1177 N64-18405 10-23

TRITIUM DETERMINATIONS IN ATMOSPHERIC GASES AND METEORITES
AFCRL-64-233 N64-21907 15-07

EFFECT OF DILUENT GAS ON SELF-INDUCED ISOTOPIC EXCHANGE BETWEEN TRITIUM AND WATER VAPOR
USNRDL-TR-738 N64-22923 16-07

PRODUCTION OF TRITIUM BY CONTAINED NUCLEAR EXPLOSIONS IN SALT - REDUCTION OF ALKALINE EARTH SULFATES BY HYDROGEN
ORNL-3334, PT. II N64-27041 19-07

AUTORADIOGRAPHIC STUDY OF INCORPORATION OF TRITIATED THYMIDINE INTO DEOXYRIBONUCLEIC ACID MOLECULE
LFEN-NI.11 /ALPHA/ N64-29885 21-16

TRITIUM RETENTION IN IRON METEORITES - GEOCHEMISTRY N64-33155 24-12

TRITON
NUCLEAR SYNTHESIS REACTION USING COLLIDING BEAMS OF DEUTERONS AND TRITONS
FTD-TT-62-1901/1&2&4 N64-22409 15-24

TROJAN ORBIT
LONG PERIOD LIBRATION OF TROJAN MINOR PLANET
N64-25104 17-29

TROPICAL METEOROLOGY
TROPICAL ZONE AIR EXCHANGE AND TEMPERATURE FIELD IN WINTER STRATOSPHERE SYSTEM OF GROWING PRESSURE FORMATIONS
JPRS-18830 N64-10794 02-21

PREPARATION OF MEAN ANNUAL TROPICAL AND SUBTROPICAL ATMOSPHERES
AFCRL-63-936 N64-17320 09-21

UPPER AIR WINDS IN THE TROPICAL STRATOSPHERE - TROPOSPHERIC WESTERLIES
GMI-2383 N64-19189 11-21

TROPICAL METEOROLOGY - LOW LATITUDE ATMOSPHERIC DISTURBANCES AS CAUSES OF HURRICANES
AD-428604 N64-19936 12-21

VARIATIONS IN TROPICAL RAINFALL PATTERNS
AD-432405 N64-21402 14-21

SYNOPTIC CLIMATOLOGY & TROPICAL METEOROLOGY
AD-435579 N64-24062 16-21

VERIFICATION OF NUMERICAL OPERATIONAL TROPICAL CYCLONE FORECAST TRACKS FOR 1963
TM-29 N64-26462 18-21

CLIMATOLOGY OF WINDS AND TEMPERATURES IN TROPICAL STRATOSPHERE
NWRF-26-0564-092 N64-33062 24-21

TROPICAL UPPER AIR STUDIES - PERSISTENCE OF DAILY TROPICAL STRATOSPHERIC WINDS
GMI-2562 N64-33315 24-21

TROPICAL STORM
TIROS I CLOUD PHOTOGRAPHS OF SUBTROPICAL CONVERGENCE BAND COMPLEMENTS SURFACE METEOROLOGICAL DATA ON QUASI-STATIONARY FRONT
N64-17913 10-21

USE OF TIROS I SATELLITE PICTURES FOR STUDIES OF INTERNAL STRUCTURE OF TROPICAL STORMS
AD-428165 N64-19930 12-21

TROPICAL METEOROLOGY - LOW LATITUDE ATMOSPHERIC DISTURBANCES AS CAUSES OF HURRICANES
AD-428604 N64-19936 12-21

SATELLITE METEOROLOGY ANALYSES - DATA FOR TROPICAL STORMS AND HURRICANES, AND TERRESTRIAL FEATURES
AFCRL-63-843 N64-31156 22-21

TROPICS
DERIVATIONS FOR SUBTROPICAL ANTICYCLONE MOTION, PSEUDO-GEOSTROPHIC RELATIVE MAGNITUDE, ABSOLUTE VORTICITY, AND CORIOLIS EQUATIONS
JPRS-18011 N64-10736 02-12

AEROLOGICAL EXPLANATION OF AIR FLOW IN TROPICS BETWEEN NORTHERN AND SOUTHERN HEMISPHERES
E-T-R-63-12 N64-16486 08-21

PREPARATION OF MEAN ANNUAL TROPICAL AND SUBTROPICAL ATMOSPHERES
AFCRL-63-936 N64-17320 09-21

TIROS I OBSERVATION OF TIME VARIATIONS IN SUBTROPICAL JET STREAM AND ASSOCIATED CLOUD PATTERNS
AFCRL-64-238 N64-18898 11-21

RADAR STUDY OF MORPHOLOGY OF SUBTROPICAL PRECIPITATION
SCI. REPT.-63-35F N64-18999 11-21

RADAR ATTENUATION BY PRECIPITATION AND STUDY OF MORPHOLOGY OF SUBTROPICAL PRECIPITATION BY USE OF DUAL-FREQUENCY WEATHER RADAR SYSTEM
SCI. REPT.-63-30T N64-19013 11-21

DUAL-FREQUENCY WEATHER RADAR SYSTEM FOR STUDYING MORPHOLOGY OF SUBTROPICAL PRECIPITATION
N64-19297 11-21

MESOSCALE STUDIES OF ECHO MOTION AND WIND PATTERN IN SUBTROPICS
REPT.-4 N64-20150 13-21

CLIMATOLOGY - TEMPERATURE AND HUMIDITY TABLES FOR TROPICS AND TEMPERATE REGIONS
AD-600318 N64-22517 15-21

TROPOPAUSE
CF ATMOSPHERE
LONG-PERIOD WAVES IN TROPOPAUSE AT ISOBARIC SURFACES AND GROUND-LEVEL PRESSURE DURING IGY
N64-10818 02-12

CLIMATOLOGY - RADAR DATA OF TROPOPAUSE PENETRATION
AFCRL-64-111 N64-22381 15-21

ERROR IN HEIGHT VARIATION OF TROPOPAUSE BASED ON RADIOSONDE DATA
T-R-421 N64-29428 21-21

SMALL SCALE FEATURES OF VERTICAL WIND PROFILES FROM HIGH RESOLUTION BALLOON SOUNDINGS ABOVE TROPOPAUSE
NASA-TM-X-53115 N64-30512 22-21

TROPOPAUSE PRESSURES AND HOURLY FLUCTUATIONS THROUGH RAWINSONDE OBSERVATIONS
AFCRL-64-660 N64-31812 23-21

TROPOSPHERE
CF ATMOSPHERE
WIND FLOW IN UPPER TROPOSPHERE UNDER INFLUENCE OF

CONSERVATION OF VORTICITY AND THERMAL WIND APPROXIMATION N64-11723 03-21

TROPOSPHERIC SIGNAL PROPAGATION TESTS AT S-BAND TO OBTAIN MEAN SQUARE PHASE FLUCTUATIONS AT 2250-MC CAL-UB-1725-1 N64-12301 03-12

METEOROLOGICAL CONDITIONS OF FLIGHT IN UPPER HALF OF TROPOSPHERE NEAR CUMULONIMBUS CLOUDS N64-12788 04-21

TROPOSPHERIC RADIO WAVE PROPAGATION AFCRL-63-713 N64-13664 05-08

METEOROLOGY AND OCEANOGRAPHY - SOLAR ACTIVITY EFFECTS ON TROPOSPHERIC REACTION - ICE STUDIES JPRS-23074 N64-14532 06-21

TROPOSPHERIC COMMUNICATIONS SYSTEM PERFORMANCE PREDICTION NBS-TN-103 N64-14796 06-08

TROPOSPHERE AND STRATOSPHERE CIRCULATION NEAR THE EQUATOR N64-16146 08-21

CORRECTION FORMULAS FOR ELECTROMAGNETIC PROPAGATION THROUGH TROPOSPHERE AND IONOSPHERE N64-18240 10-08

COMPARISON OF PRECIPITATION AND TROPOSPHERIC SCATTERING CROSS SECTIONS TR-1 N64-21798 15-08

1963 STATUS OF TROPOSPHERIC WIND PROFILES FOR AEROSPACE VEHICLE DESIGN AD-600300 N64-23361 16-12

STRATOSPHERIC-TROPOSPHERIC INTERACTIONS N64-24456 17-21

ANTARCTIC STRATOSPHERIC & TROPOSPHERIC SEASONAL TEMPERATURE VARIATIONS N64-24457 17-21

TRANSPORT RATE OF RADIOACTIVE AEROSOLS IN TROPOSPHERE DUE TO NUCLEAR EXPLOSIONS IN NORTHERN HEMISPHERE N64-24800 17-21

POLARIZATION PROGRAMMING IN TROPOSPHERIC SCATTER PROPAGATION COMMUNICATION SYSTEM RADC-TDR-64-258, VOL. II N64-27427 19-08

TROPOSPHERIC CIRCULATION PATTERNS IN EQUATORIAL REGION N64-27936 20-21

TROPOSPHERIC REFRACTION PROBLEMS FOR ELECTROMAGNETIC SYSTEMS N64-29116 21-08

DECOMPRESSION SICKNESS OF PILOT IN UNPRESSURIZED AIRCRAFT IN TROPOSPHERE FPRC-MEMO-199 N64-29768 21-16

TURBULENCE IN UPPER TROPOSPHERE OVER TRANSCAUCASIA IN RELATION TO TYPES OF SYNOPTIC PROCESSES JPRS-26523 N64-30373 22-21

ATMOSPHERICS AND INSTABILITY IN TROPOSPHERE - RADIO COMMUNICATION AND DIRECTION FINDING N64-31761 23-21

TROPOSPHERIC RADIO PROPAGATION ON OVERSEA PATH IN GULF OF MEXICO NBS-8429 N64-32075 23-08

WORLD-WIDE ATMOSPHERIC RADIO DUCT MEASUREMENT AND PREDICTION N64-32787 24-21

AIRCRAFT-BORNE SAMPLING DEVICE FOR COLLECTION AND FRACTIONATION OF TROPOSPHERIC AEROSOL PARTICLES J-1038 N64-33668 24-15

TROPOSPHERIC RADIATION
STRATOSPHERIC AND TROPOSPHERIC THERMAL RADIATION FIELDS IN INFRARED REGION OF SPECTRUM NASA-TT-F-8815 N64-22933 16-12

TROPOSPHERIC WAVE
AUTOMATIC PROPAGATION COMPUTATION ROUTINE FOR HORIZONTALLY AND VERTICALLY POLARIZED TROPOSPHERIC WAVE TRANSMISSION N64-22837 16-09

TROPOSPHERIC WAVES & METEOROLOGY N64-24453 17-21

REAL TIME COMPENSATION FOR TROPOSPHERIC RADIO REFRACTIVE EFFECTS ON RANGE MEASUREMENTS NASA-CR-109 N64-31205 22-08

TRUMP PROJECT
NIKE-CAJUN VEHICLE TO CARRY PAYLOAD TO APOGEES OF 50 NAUTICAL MILES - TRUMP PROJECT APGC-TDR-64-38 N64-33727 24-29

TRUNCATION
ROTATIONALLY SYMMETRIC MOTION OF SMALL ANGLE TRUNCATED CONICAL SHELL DUE TO CONSTANT VELOCITY PRESSURE FRONT AMRA-TR-63-28 N64-18135 10-33

PROBLEM OF ESTIMATING LOCATION AND SCALE PARAMETERS FROM TRUNCATED SAMPLES - MATHEMATICAL STATISTICS MRC-459 N64-22600 15-20

RELATIVE CONVERGENCE OF DOUBLY-INFINITE SET OF EQUATIONS TR-69 N64-25477 17-20

PRESSURE FIELD DETERMINATION DURING DIFFRACTION ABOUT TRUNCATED WEDGE ZONE N64-28497 20-33

TRUNCATION ERROR
TRUNCATION ERRORS OF POWER SERIES SUBSTITUTION TECHNIQUE IN SOLUTION OF SECOND ORDER NONLINEAR DIFFERENTIAL EQUATIONS ADN-02-08-62.1 N64-25967 18-20

NUMERICAL INTEGRATION TRUNCATION ERRORS IN PARTICLE-IN-CELL TECHNIQUE FOR SOLUTION OF ONE-DIMENSIONAL FLOW PROBLEM RM-3613-PR N64-26263 18-11

TRUNCATION AND ROUNDOFF ERRORS, AND COMPUTATION TIME COMPARISONS OF FOUR METHODS OF ESTIMATING INTEGRALS MRC-469 N64-27714 19-20

TRUSS
ALUMINUM TRUSS DESIGNS IN SATURN LAUNCH VEHICLE AND APOLLO SPACECRAFT NASA-TM-X-51843 N64-26368 18-10

TRYPTAMINE
EFFECT OF TRYPTAMINE ON FORMATION OF HEMORRHAGES IN IRRADIATED MICE N64-12802 04-16

TRYPTOPHAN
TRYPTOPHAN SYNTHETASE MUTANTS OF YEAST - SUPER-SUPPRESSOR ACTION IN RELATION TO ALLELIC MAPPING & COMPLEMENTATION UCRL-11191 N64-17707 09-16

MIGRATION OF ENERGY BETWEEN TRYPTOPHAN RADICALS IN PROTEIN MACROMOLECULE JPRS-23991 N64-18318 10-16

TUBE
JOINING & ENVIRONMENTAL TESTING OF RADIATOR TUBE-FIN SAMPLES OF VARIOUS METALS ERR-FW-115 N64-12664 04-18

ELECTRONIC FILTER WITH PARALLEL TUBE - DEPENDENCE OF COEFFICIENT OF FILTRATION ON GRID BIAS, CAPACITANCE, RESISTANCE, & VOLTAGE N64-12737 04-09

FLUX QUANTIZATION IN SUPERCONDUCTORS - THIN SUPERCONDUCTING CYLINDRICAL TUBE N64-13140 04-23

NUMERICAL SOLUTIONS OF FREE MOLECULAR FLOW IN CONVERGING AND DIVERGING TUBES AND SLOTS NASA-TN-D-2330 N64-21271 14-02

INSPECTION AND QUALITY AND CONTROL TESTING OF MICROWAVE DUPLEXING TUBES AD-601465 N64-22702 15-17

PROPULSION OF TEST VEHICLE IN TUBE - FLOW DISTURBANCES & ENERGY TRANSFORMATIONS

TR-AE-6404 N64-22895 16-27

ELECTRONIC AND MECHANICAL COMPONENTS FOR CESIUM BEAM TUBE
IR-7-967 /1/ N64-23108 16-09

FLAME PROPAGATION IN TUBES AND SPHERICAL CHAMBERS
N64-26007 18-26

DEVELOPMENT OF BOUNDARY LAYER IN HYPERSONIC TUBE
N64-26160 18-11

LAMINAR SLIP FLOW HEAT TRANSFER IN PARALLEL-PLATE CHANNEL OR ROUND TUBE WITH UNIFORM WALL HEATING
NASA-TN-D-2393 N64-26417 18-02

CESIUM BEAM TUBE FOR NAVIGATION AND GUIDANCE
P&B-894 N64-27475 19-09

DIRECT VIEW STORAGE TUBE FOR INFORMATION DISPLAY IN TWO COLORS
AD-600385 N64-27540 19-09

HYPERVELOCITY IMPACT DAMAGE CHARACTERISTICS IN ARMORED SPACE RADIATOR TUBES - METEOROID HAZARD
NASA-TN-D-2472 N64-28985 20-33

STRAIN FATIGUE TESTS ON THIN-WALL TUBING RELATED TO SERVICE LIFE OF NUCLEAR REACTOR FUEL ELEMENT
GEAP-4462 N64-29754 21-33

TUBE TRANSPORTATION SYSTEM FOR SELF-PROPELLED VEHICLES AT SUPERSONIC SPEEDS
TR-AE-6406 N64-30401 22-02

APPROXIMATE ANALYSIS OF SELF-PROPELLED VEHICLE IN TUBE WITH VARIOUS TUBE-END CONDITIONS TO DETERMINE INDUCED FLOW VELOCITIES
TR-AE-6204 N64-30402 22-02

PRESSURE DISTRIBUTION AROUND CYLINDER SIMULATING HIGH SPEED VEHICLE WITHIN TUBE
TR-AE-6402 N64-30404 22-02

MEASUREMENT OF FORCES AND MOMENTS ACTING ON VEHICLE MOVING AT HIGH SPEED WITHIN TUBE - FACILITY AND INSTRUMENTATION N64-30405 22-02

WALL EFFECTS ON DRAG OF BODY MOVING IN TUBE FOR VARIOUS BODY SHAPES, REYNOLDS NUMBERS, BODY-TO-DUCT RATIOS, AND TUBE-END CONDITIONS
N64-30406 22-02

POWER REQUIREMENTS FOR PROPULSION OF VEHICLE IN TUBE IN RELATION TO VEHICLE SPEED, PROPULSION MODE, AND BLOCKAGE RATIO
TR-AE-6404 N64-30407 22-02

FLOW IN WAKE OF SELF-PROPELLED VEHICLE IN INFINITE TUBE - EFFECTS OF COMPRESSIBILITY, FRICTION, AND HEAT TRANSFER N64-30408 22-02

LINEARIZED TWO-DIMENSIONAL ANALYSIS OF FLOW FIELD INDUCED BY DISTURBANCE TRAVELING IN TUBE
N64-30409 22-02

SHOCK FORMATION AND GROWTH BY TRANSONIC NONSTEADY MOTION OF VEHICLE IN TUBE N64-30410 22-02

PILOT MODEL OF TUBE TRANSPORT SYSTEM BASED ON JET ENGINE TRANSFER OF AIR FROM FRONT TO REAR OF VEHICLE N64-30411 22-10

RECOMMENDATIONS FOR FUTURE STUDIES OF TUBE-TYPE TRANSPORTATION SYSTEMS N64-30412 22-10

SLOW WAVE STRUCTURE EVALUATION AND TUBE CONSTRUCTION FOR X-BAND CONTINUOUS WAVE CROSSED FIELD AMPLIFIER
SFD-33-IDR-4 N64-30668 22-09

ULTRASONIC TEST METHOD AND EQUIPMENT FOR THIN WALL TUBING - ZIRCALOY SHEATH TUBING
HW-81957 N64-30801 22-17

TUBES FOR ELECTRIC CORE SAMPLING OF PETROLEUM WELLS N64-31781 23-12

MINIATURE SEALED-OFF PULSE NEUTRON TUBE TO INVESTIGATE PETROLEUM AND GAS WELLS
N64-31783 23-12

EFFECTS OF DEPOSITS IN TUBES ON HYDRAULIC PRESSURE DROP
RSIC-269 N64-32496 23-11

PHYSICAL LIMITATION FACTORS ENCOUNTERED IN GENERATING VERY HIGH POWER FOR RADIO FREQUENCY AMPLIFIER TUBES
ESD-TDR-63-568 N64-33977 24-09

TUBING

GENERATION OF ELECTRICITY BY PLASMA FLOWING IN A TUBE N64-11713 03-20

STRESSES ON METAL TUBES WHEN PUSHED THROUGH DIE PLATE - DEPENDENCE ON DIAMETER DEFORMATION, WALL THICKNESS, FRICTION, PLASTICITY, AND TAPER ANGLE
JPRS-22441 N64-11873 03-17

APPARATUS FOR DETERMINING CREEP AND RECOVERY OF GRAPHITE BY APPLYING TORSIONAL STRESSES TO THIN WALLED TUBES
COA-NOTE-NAT-1 N64-12021 03-18

EQUATIONS FOR REVERSE YIELDED THICK WALL TUBE WITH PLASTIC FLOW DUE TO INTERNAL PRESSURE
NOLTR-63-123 N64-12306 03-33

APPLICATION OF PULSED ELECTROMAGNETIC TEST SYSTEM TO INSPECTION OF THIN WALL TUBING
ANL-6728 N64-21608 15-17

PRESSURE DROP IN FLEXIBLE METAL HOSES, BELLOWS AND GIMBAL JOINTS - ANNOTATED BIBLIOGRAPHY
NASA-CR-56540 N64-24109 16-17

TANTALUM ALLOY TUBING WITH INCREASED STRENGTH AND CORROSION RESISTANCE
RTD-8-109/II/ N64-24876 17-17

THIN WALL TUBING TESTS USING ULTRASONIC SHEAR WAVES - THEORY OF ULTRASONIC WAVE PROPAGATION, EXPERIMENTAL DATA, AND NOTCH FABRICATION
HW-81956 N64-27142 19-17

MANUFACTURING TANTALUM ALLOY TUBING
RTD-8-109-/III/ N64-30146 21-17

BENDING & THERMAL FATIGUE AND BURST TESTS ON REACTOR TUBING
HW-83386 N64-33583 24-17

TUMOR

EFFECTS OF VARIOUS SERA ON MALIGNANT GROWTHS - IMMUNOLOGY & RADIATION SICKNESS
JPRS-20040 N64-11354 02-18

SENSITIZATION OF TUMOR CELLS TO ACTION OF IONIZING RADIATION BY RADICAL-REACTION INHIBITORS
N64-12896 04-18

POSITRON SCINTILLATION CAMERA FOR DETECTING REAL AND SIMULATED BRAIN TUMORS N64-15215 07-18

HIGH ENERGY NEUTRON AND PROTON RADIATION EFFECTS ON LIFESPAN, PERIPHERAL BLOOD, AND RATE OF APPEARANCE OF TUMORS IN RATS
FTD-TT-63-1049/16264 N64-19220 11-18

RADIATION THERAPY OF BRAIN TUMOR WITH HIGH ENERGY ALPHA PARTICLE BEAM FROM LARGE SYNCHROCYCLOTRON
N64-22865 16-18

LEUKOSES AND TUMORGENESIS BY IONIZING RADIATION, AND PATHOGENESIS OF RADIATION TUMORS
JPRS-26532 N64-30813 22-18

TUNGSTATE

LOW TEMPERATURE HEAT CAPACITIES AND ENTROPIES AT 298.15 DEG K. OF LEAD MOLYBDATE AND TUNGSTATE
BM-RI-6357 N64-14918 06-17

MILLIMETER AND SUBMILLIMETER MASER DEVICES - IRON /FERRIC ION/ DOPED ZINC TUNGSTATE AS NEW QUANTUM AMPLIFIER MATERIAL
AD-432597 N64-21375 14-23

FLUORESCENT ION INTERACTION - ENERGY TRANSFER BETWEEN RARE EARTH IONS IN TUNGSTATES, QUENCHING INTERACTIONS, AND FLUORESCENCE OF MANGANESE DIFLUORIDE
SRRC-RR-64-39 N64-27989 20-25

ENERGY TRANSFER BETWEEN RARE EARTH IONS IN TERBIUM-EUROPIUM TUNGSTATES N64-27991 20-25

ENERGY TRANSFER BETWEEN SAMARIUM, EUROPIUM, TERBIUM, AND DYSPROSIUM IONS IN SODIUM RARE EARTH TUNGSTATES N64-27992 20-25

OPTICAL CONSTANTS OF MAGNESIUM OXIDE AND CALCIUM TUNGSTATE USING FAR INFRARED SPECTROMETER
NASA-CR-59302 N64-33694 24-25

TUNGSTEN
ZONE REFINING OF TUNGSTEN AND RESISTANCE MEASUREMENTS OF SINGLE CRYSTALS
0-8-1973-3 N64-10242 01-18

METALLURGICAL BONDING BETWEEN PLASMA SPRAYED TUNGSTEN & HOT TUNGSTEN SUBSTRATES - INTERFACE & RECRYSTALLIZATION
NASA-RP-41 N64-10286 01-24

RADIOACTIVE TUNGSTEN IN ATMOSPHERE FROM THERMONUCLEAR BOMB
JPRS-17679 N64-10485 01-21

WELDING OF VARIOUS GRANULATED METALLIC POWDERS - TUNGSTEN, NICKEL, TIN, LEAD, TITANIUM, ALUMINUM AND FERROALLOYS N64-10767 02-12

MERCURY-ATLAS BOOSTER RELIABILITY
NASA-CR-52665 N64-10904 02-01

EXPERIMENTS WITH TUNGSTEN, MOLYBDENUM, & ALLOYS OF REFRACTORY METALS
JPRS-17955 N64-11014 02-01

LARGE TUNGSTEN CRYSTALLITES GROWN BY RECRYSTALLIZATION DURING SINTERING OF TUNGSTEN SAMPLES N64-11019 02-25

USE OF TUNGSTEN POWDER IN PRODUCTION OF POWDER WIRE FOR AUTOMATIC BUILD-UP N64-11020 02-18

HOT PRESSING OF TUNGSTEN POWDER
SSD-TDR-63-196 N64-11441 03-17

DENSITY AND ELASTICITY CHANGES IN PRESSING OF ALUMINUM, TUNGSTEN, AND COPPER POWDERS
N64-11483 03-17

EFFECT OF INTERFACIAL BONDING ON STRENGTH OF TWO-PHASE SYSTEM CONSISTING OF TUNGSTEN IN GLASSY MATRIX
UCRL-11011 N64-11583 03-19

STRENGTH PROPERTIES OF TUNGSTEN AND TUNGSTEN BASE ALLOYS
WADD-TR-60-37, PT. 4 N64-11748 03-18

TUNGSTEN SHEET - RECRYSTALLIZATION TEMPERATURES, COMPRESSION PROPERTIES, AND BEND-TRANSITION-TEMPERATURE CURVES
REPT.-6495-1479-IV N64-11758 03-18

ANNEALING TEMPERATURE AND GRAIN SIZE EFFECT ON DUCTILITY AND BRITTLENESS OF POWDERED TUNGSTEN
ASD-TDR-63-676 N64-11769 03-18

CRUCIBLE HIGH-TEMPERATURE VACUUM FURNACE WITH TUNGSTEN HEATING ELEMENT FOR THERMOPHYSICAL INVESTIGATIONS TO 2500-DEG C N64-12775 04-10

CARBON AND HYDROGEN FURNACE DESIGNS FOR REDUCTION OF TUNGSTEN FOR INCLUSION IN HARD ALLOYS - METALLURGY N64-12894 04-17

THERMAL DESORPTION AND SURFACE DIFFUSION OF CESIUM COATINGS ON TUNGSTEN SUBSTRATE - PULSED-FIELD-EMISSION MICROSCOPY INVESTIGATION
NASA-CR-22 N64-12912 04-25

DIMENSIONAL, VISUAL, AND DYE-PENETRANT INSPECTIONS OF TUNGSTEN SHEET
ER-1399-1 N64-12929 04-18

DEUTERON IRRADIATION EFFECTS ON ELECTRICAL RESISTIVITY AND ELASTIC MODULUS OF TUNGSTEN
AFCRL-63-183 N64-13034 04-23

TEMPERATURE & STRAIN RATE EFFECT ON TENSILITY OF POWDER METALLURGY TUNGSTEN ROD
NASA-CR-53018 N64-13269 04-18

FLEXIBILITY & TENSILE STRENGTH OF COMMERCIAL TUNGSTEN SHEET
ASD-TDR-63-505, VOL. 1 N64-13767 05-18

MECHANICAL PROPERTIES OF WROUGHT TUNGSTEN SHEET
ASD-TDR-63-505, VOL. 2 N64-13768 05-18

PARTICLE EMISSION FROM TUNGSTEN CATHODE SURFACE HEATED BY PULSED LASER BEAM N64-13797 05-25

EMISSION OF ELECTRONS & IONS FROM TUNGSTEN SURFACE HEATED BY PULSED LASER BEAM N64-13800 05-25

ENGINEERING PROPERTIES OF TUNGSTEN & TUNGSTEN ALLOYS
DMIC-191 N64-13839 04-18

TUNGSTEN METALLURGY RESEARCH - MELTING & CASTING, JOINING, ROCKET NOZZLE FABRICATION, AND HIGH TEMPERATURE REACTIONS
DMIC-193 N64-13845 05-18

STATISTICAL MECHANIC DERIVATION OF SURFACE IONIZATION THEORY FOR CESIUM ION EMISSION FROM POROUS TUNGSTEN
EOS-RR-17 N64-14341 06-23

OPTICAL CONSTANT MEASURING METHOD FOR SINGLE CRYSTALS OF TUNGSTEN, MOLYBDENUM, AND NIOBIUM
AFCRL-63-547 N64-15067 07-23

EROSION AND THERMAL SHOCK CHARACTERISTICS OF TUNGSTEN UNDER CONDITIONS OF SIMULATED ALUMINIZED ROCKET PROPELLANT EXHAUST N64-15821 07-18

DEGRADATION MEASUREMENTS OF SOLAR CELL IRRADIATION UNDER TUNGSTEN AND SUNLIGHT ILLUMINATIONS
NASA-TN-D-2098 N64-15845 07-06

HARDNESS OF TUNGSTEN IN 200-2000 DEG RANGE USING THERMOCOUPLE AND OPTICAL PYROMETER MEASUREMENTS
FTD-TT-63-101/1&2 N64-16414 08-18

METALLURGICAL EXAMINATION OF FIRED TUNGSTEN ROCKET NOZZLE INSERTS N64-16591 08-27

METALLURGICAL EXAMINATION OF TUNGSTEN ROCKET NOZZLE INSERTS N64-16592 08-27

METALLOGRAPHIC AND FRACTURE STUDIES OF INFILTRATED TUNGSTEN NOZZLE INSERTS N64-16593 08-27

MECHANICAL AND PHYSICAL PROPERTIES OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY AND TUNGSTEN SHEET
REPT.-6659-1479-5 N64-16992 09-18

METALLOGRAPHIC EVALUATION OF TUNGSTEN SURFACE FINISH AND CONDITION PRODUCED BY ELOX AND ANOCUT MACHINING TECHNIQUES
A477 N64-17135 09-17

PROCESSING OF NIOBIUM AND TANTALUM BASE ALLOYS FROM INGOT TO SHEET, ROLLING OF PURE TUNGSTEN SHEET
AD-418544 N64-17617 09-17

MAGNETOHYDRODYNAMICS, ELECTRON & ION EMISSION FROM TUNGSTEN FILAMENT, AND ION PENETRATION THROUGH IONIC DIPOLE LAYER AT ELECTRODE SURFACE N64-17901 10-23

GROWTH OF SINGLE CRYSTAL TUNGSTEN FILAMENT AND VACUUM MEASUREMENTS OF ELECTRON EMISSION FROM FILAMENT N64-17904 10-23

TUNGSTEN AND COPPER-FILLED TUNGSTEN AS THROAT MATERIALS IN HOTSHOT WIND TUNNEL
AEDC-TDR-64-56 N64-18371 10-18

POROUS TUNGSTEN TRANSPIRATION COOLED NOZZLE SYSTEM
ER-5209-03 N64-18597 11-27

FABRICATION OF TUNGSTEN BODIES OF INCREASED STRENGTH
SN-44666 N64-19009 11-18

QUALITY STANDARDS FOR TUNGSTEN SHEET METAL
MAB-196-M N64-19017 11-17

OXIDATION RESISTANCE OF PROTECTIVE COATINGS FOR TUNGSTEN AT 2000 DEG C
ASD-TDR-63-744 N64-19307 12-17

OXYGEN DETECTOR WHICH OPERATES BY CHEMISORPTION AND DESORPTION FROM TUNGSTEN FILAMENT IN HIGH VACUUM N64-19500 12-07

COMPUTER PROGRAM FOR THERMODYNAMIC ANALYSIS OF CHEMICAL REACTIONS IN TUNGSTEN AND RHENIUM VAPOR PLATING
UCRL-7667 N64-20430 13-20

POWDER METALLURGY - FABRICATION AND TESTING OF POROUS SPHERICAL POWDER TUNGSTEN IONIZERS
NASA-CR-54016 N64-20583 13-06

TENSILE PROPERTIES OF PYROLYTIC TUNGSTEN FROM 1370 TO 2980 DEG IN VACUUM
NASA-CR-53992 N64-20610 13-18

DEPOSITION OF TUNGSTEN BY HYDROGEN REDUCTION OF TUNGSTEN HEXAFLUORIDE IN VAPOR PHASE N64-21347 14-18

MECHANICAL AND PHYSICAL PROPERTIES OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY AND TUNGSTEN SHEET
REPT.-6774-1479-VI N64-21410 14-18

ELECTROTHERMAL PLASMA PROPULSION - SUBSTITUTION OF WATER-COOLED OR TUNGSTEN ELECTRODES FOR CONSUMABLE ELECTRODES N64-21703 15-24

REACTOR FUEL ELEMENT PROCESSING AND MATERIALS TESTING - CERAMIC MATERIALS
HW-76304 N64-21739 15-17

ELECTRODEPOSITION OF PROTECTIVE COATINGS OF TUNGSTEN
BM-RI-6454 N64-22121 15-17

ION EMISSION & EMITTERS - EFFECT OF IMPURITIES ON CESIUM ION AND NEUTRAL EMISSION FROM HOT POROUS TUNGSTEN
NASA-CR-54045 N64-22193 15-23

STRESS-RUPTURE AND CREEP ANALYSIS OF RHENIUM, TUNGSTEN, & ARC CAST MOLYBDENUM
GEMP-35A N64-22208 15-33

CRYSTALLINE BINDING EFFECTS ON DOPPLER BROADENING NEUTRON RESONANCE IN TUNGSTEN
BNL-860/T-344/ N64-22225 15-25

HIGH VELOCITY CO-EXTRUSION METHOD FOR FABRICATING TUNGSTEN CERMET AND REFRACTORY METAL CLADDING
LAMS-3065 N64-22251 15-18

SURFACE IONIZATION OF CESIUM - IONIZATION EFFICIENCIES OF TUNGSTEN, RHENIUM, & NIOBIUM, AND INFLUENCE OF ADSORBED GASES
NASA-CR-54047 N64-22444 15-24

EFFECTS OF INTERSTITIAL IMPURITIES ON LOW TEMPERATURE TENSILE PROPERTIES OF TUNGSTEN
NASA-TN-D-2287 N64-22750 16-18

QUALITY CONTROL OF TUNGSTEN SHEET PRODUCED BY REFRACTORY SHEET METAL ROLLING
NOW-63-0786D N64-24219 16-18

TRANSITION FROM PLASTIC TO BRITTLE BEHAVIOR IN THIN TUNGSTEN WIRE
RSIC-188 N64-25222 17-18

ARC PLASMA SPRAYED TUNGSTEN AS ENGINEERING MATERIAL N64-25411 17-18

PLASMA SPRAYING TUNGSTEN N64-25422 17-17

CONDUCTIVITY METHOD OF QUANTITATIVE ANALYSIS FOR CARBON TRACES IN TUNGSTEN
NASA-RP-232 N64-25858 18-07

ADSORPTION OF NITROGEN ON TUNGSTEN WIRE AND CARBON MONOXIDE ON MOLYBDENUM
TR-64-255.7 N64-26215 18-23

THERMIONIC TRANSDUCER, CONVERTER, DIODES, SINGLE CRYSTAL ELECTRON WORK FUNCTION, TUNGSTEN ELECTRON EMISSION, AND SURFACE DIFFUSION FROM CALCIUM TO TUNGSTEN
WGLR-2/1964 N64-26756 18-06

PRODUCTION AND THERMIONIC EMISSION DATA OF TUNGSTEN AND MOLYBDENUM SINGLE CRYSTALS
AFCRL-64-410 N64-26895 18-25

RADIATION AND ACCOMMODATION COEFFICIENTS OF TUNGSTEN BY HOT FILAMENT METHOD N64-26973 19-15

HIGH TEMPERATURE PROTECTIVE COATING FOR REFRACTORY METALS - TUNGSTEN N64-27010 19-17

SCIENCE AND TECHNOLOGY OF TUNGSTEN, TANTALUM, MOLYBDENUM, NIOBIUM, AND THEIR ALLOYS - REFRACTORY ALLOY CONFERENCE
AGARDOGRAPH-82 N64-27576 19-18

STRENGTH AND HARDNESS OF REFRACTORY ALLOYS OF NIOBIUM, TANTALUM, MOLYBDENUM, AND TUNGSTEN METALS N64-27578 19-18

THERMOPHYSICAL PROPERTIES OF TUNGSTEN, NIOBIUM, MOLYBDENUM, AND TANTALUM - REFRACTORY ELEMENTS N64-27585 19-18

OXIDATION BEHAVIOR OF MOLYBDENUM, TUNGSTEN, NIOBIUM, AND TANTALUM IN GASEOUS ATMOSPHERES OF OXYGEN-NITROGEN, CARBON MONOXIDE-CARBON DIOXIDE, AND HYDROGEN-WATER MIXTURES N64-27588 19-18

FABRICATION TESTS OF MOLYBDENUM, NIOBIUM, TUNGSTEN, TANTALUM - REFRACTORY ALLOYS N64-27593 19-18

HEAT OF ADSORPTION FOR SODIUM, RUBIDIUM, AND CESIUM ON TUNGSTEN SUBSTRATE - CHEMISORPTION
NASA-TN-D-2431 N64-27741 19-25

TANTALUM USED AS CARBON DIFFUSION BARRIER BETWEEN TUNGSTEN AND GRAPHITE
WRE-TN-CPD-54 N64-28061 20-18

VAPOR DEPOSITION OF TUNGSTEN BY HYDROGEN REDUCTION OF TUNGSTEN HEXAFLOORIDE AND EXAMINATION BY X-RAY DIFFRACTION, METALLOGRAPHY, & ELECTRON MICROSCOPY
ORNL-3662 N64-28245 20-18

WIRE COIL HEAT EXCHANGER RESISTOJET ENGINE - CONTACT EFFECTS BETWEEN BORON NITRIDE INSULATION AND TUNGSTEN HEATER ELEMENTS
AIAA PAPER-64-672 N64-28357 20-27

HIGH PERFORMANCE CESIUM IONIZERS MADE FROM SIZED SPHERICAL TUNGSTEN POWDERS
AIAA PAPER-64-692 N64-28365 20-27

X-RAY ANALYSIS OF RECRYSTALLIZATION OF BORIDES OF TITANIUM, ZIRCONIUM, AND MOLYBDENUM AND CARBIDES OF TITANIUM AND TUNGSTEN
JPRS-16059 N64-28632 20-07

TENSILE STRENGTH AND DUCTILITY OF TUNGSTEN IN VACUUM - EFFECT OF GRAIN SIZE AND IMPURITIES
NASA-CR-58237 N64-29005 20-18

BINARY HAFNIUM-TANTALUM ALLOY FOR OXIDATION-PROTECTIVE COATING OF TUNGSTEN & TUNGSTEN-ALLOY SUBSTRATES AT VERY HIGH TEMPERATURES
REPT.-25116, VOL. 10 N64-29233 21-18

BONDING MECHANISM BETWEEN PLASMA-SPRAYED TUNGSTEN AND STAINLESS STEEL SUBSTRATE
NASA-TN-D-2461 N64-29336 21-18

TUNGSTEN SHEET FABRICATION USING ULTRAFINE TUNGSTEN METAL POWDER, COLD PRESSING, AND

SINTERING PROCESSES
ASC-TR-8-107 /V/ N64-29900 21-18

EFFECTS OF ELECTRON BOMBARDMENT HEATING ON SURFACE OF POLISHED TUNGSTEN SHEET AND FOIL
NRL-6119 N64-29957 21-18

ROOM-TEMPERATURE SLIP IN ZONE-MELTED TUNGSTEN SINGLE CRYSTALS - PLASTIC DEFORMATION
NASA-RP-312 N64-30607 22-18

VAPOR-PLATING OF TUNGSTEN COATINGS FOR ROCKETS BY HYDROGEN REDUCTION
RR-TR-64-6 N64-30888 22-18

CRACK INITIATION IN CRYSTALLINE MATERIALS OBSERVED THROUGH PURE TUNGSTEN, TITANIUM ALLOY, AND LITHIUM FLUORIDE SINGLE CRYSTALS
SURI-MET-1160-0764-IT N64-30963 22-33

TUNGSTEN NOZZLE INSERT FOR SOLID PROPELLANT ROCKET ENGINE
RTD-TR-7-797-A/I/ N64-31065 22-17

FABRICATION, PHYSICAL PROPERTIES, AND SPINNING CHARACTERISTICS OF TUNGSTEN SHEET AND PLATE
QR-1 N64-31180 22-18

EVALUATION OF DIELECTRIC FILMS, THIN FILM FIELD EFFECT TRANSISTORS, AND TUNGSTEN RESISTORS PRODUCED BY CATHODOLYSIS
AFSC-TR-7-857 /V/ N64-31230 22-25

NICKEL-TUNGSTEN DEPOSITION FROM HYPOPHOSPHITE BASED ELECTROLESS PLATING SOLUTION
A-63-23 N64-31658 23-07

DESORPTION & MIGRATION OF STRONTIUM ON TUNGSTEN BY PULSED FIELD EMISSION MICROSCOPY
AD-421552 N64-31698 23-07

VAPOR DEPOSITION OF TUNGSTEN COATING ON GRAPHITE- AND RHENIUM-LINED GRAPHITE ROCKET NOZZLES
BR-RI-6464 N64-32418 23-17

QUANTITATIVE DETERMINATIONS OF VERY LOW CARBON CONCENTRATIONS IN TUNGSTEN BY COMBUSTION-CONDUCTOMETRIC METHOD
NASA-TN-D-2153 N64-32427 23-18

QUANTITATIVE ANALYSIS OF PLAIN AND ALLOYED TUNGSTEN FOR IRON, COPPER AND COBALT
T65-1-1 N64-32548 23-18

TENSILE TESTING, FLUID-TO-FLUID EXTRUSION, AND COLD DEFORMATION OF BERYLLIUM AND TUNGSTEN
EPR-1 N64-32652 23-18

ROCKET NOZZLE MATERIAL DEVELOPMENT - VAPOR DEPOSITION OF TUNGSTEN AND TANTALUM, AND TUNGSTEN CASTING N64-32696 24-17

COPPER-COOLED TUNGSTEN FIBER MATERIALS FOR ROCKET NOZZLES N64-32699 24-18

POROUS TUNGSTEN IONIZERS FOR ELECTRIC PROPULSION SYSTEM
AIAA PAPER-64-691 N64-32723 24-27

INFLUENCE OF RESIDUAL GAS ATMOSPHERE IN SPACE CHAMBERS ON NEUTRAL EFFLUX AND CRITICAL TEMPERATURE OF TUNGSTEN IONIZERS
AIAA PAPER 64-693 N64-32724 24-27

METALLURGICAL BONDING OF PLASMA SPRAYED TUNGSTEN ON HOT MOLYBDENUM SUBSTRATES
NASA-RP-342 N64-33061 24-17

MECHANICAL PROPERTIES OF CHROMIUM, MOLYBDENUM, AND TUNGSTEN WITH RHENIUM ADDITION IN SOLID SOLUTION
NASA-CR-118 N64-33078 24-18

VAPORIZATION DATA ON TUNGSTEN
NASA-CR-58774 N64-33174 24-13

CHROMIUM, MOLYBDENUM, AND TUNGSTEN BINDERS FOR ZIRCONIUM DIBORIDE SUBJECTED TO MECHANICAL SHOCK AT HIGH TEMPERATURES
BR-RI-6549 N64-33247 24-18

PRODUCTION OF TUNGSTEN SHEET AND PLATE BY POWDER METALLURGY TECHNIQUE
DMIC-MEMO-195 N64-33295 24-18

POWDER METALLURGY OF TUNGSTEN AND TUNGSTEN-BASE REFRACTORY ALLOYS N64-33499 24-18

EFFECT OF IMPURITIES ON IONIZATION BEHAVIOR OF CESIUM ON POROUS TUNGSTEN SURFACE IN ION ENGINE
ASD-TDR-63-476, PT. II N64-33885 24-26

STRESS-STRAIN ANALYSIS OF CRYSTAL LATTICE AND DUCTILE-BRITTLE TRANSITION IN TUNGSTEN BY X-RAY DIVERGENT BEAM METHOD
ML-TDR-64-220 N64-33914 24-18

MECHANICAL & PHYSICAL PROPERTIES OF TZM ALLOY SHEET AND TUNGSTEN SHEET
QPR-7 N64-33948 24-18

CARBON ION MOBILITY CHANGE IN TITANIUM, TANTALUM, & TUNGSTEN
NASA-TT-F-263 N64-34021 24-18

TUNGSTEN ALLOY
METALLURGY - RARE EARTH, HAFNIUM CARBIDE, THORIUM, URANIUM NITRIDE, & TUNGSTEN-RHENIUM ALLOYS
USBM-U-1082 N64-10253 01-18

TUNGSTEN-SILVER ROCKET NOZZLE MATERIAL - PLASTIC DEFORMATION
WAL-TR-372/32-8-T3 N64-10864 02-18

PROPERTIES OF TUNGSTEN-RHENIUM ALLOYS N64-11015 02-18

MIGRATION OF BOTH COMPONENTS OF TUNGSTEN-MOLYBDENUM ALLOYS WITH TEMPERATURE N64-11018 02-18

STRENGTH PROPERTIES OF TUNGSTEN AND TUNGSTEN BASE ALLOYS
WADD-TR-60-37, PT. 4 N64-11748 03-18

TUNGSTEN BASE ALLOYS PREPARED BY VACUUM-ARC-CASTING PROCESS
AD-424267 N64-12245 03-18

MECHANICAL PROPERTIES OF MOLYBDENUM AND TUNGSTEN SILVER ALLOYS
WAL-TR-372/32-7-T3 N64-12316 03-18

ZONE REFINING OF CEMENTED TUNGSTEN-BASE ALLOYS
WAL-TR-372/32-8-T1 N64-12341 03-18

METALLURGY OF TERNARY ALLOYS OF NIOBIUM-TUNGSTEN-ZIRCONIUM, AND OF NIOBIUM-MOLYBDENUM-ZIRCONIUM
JPRS-22593 N64-12358 03-18

CASTING OF REFRACTORY MOLYBDENUM AND TUNGSTEN BASE ALLOYS INTO SHEET MATERIALS
AD-422106 N64-12377 03-33

ZONE REFINING OF CEMENTED TUNGSTEN-BASE ALLOYS
WAL-TR-372/32-7-T1 N64-12381 03-18

MELTING OF BINARY AND TERNARY ALLOYS OF TUNGSTEN, MOLYBDENUM, AND RHENIUM N64-12448 04-18

ENGINEERING PROPERTIES OF NIOBIUM, MOLYBDENUM, TANTALUM, AND TUNGSTEN ALLOYS
DMIC-188 N64-13301 04-18

ENGINEERING PROPERTIES OF TUNGSTEN & TUNGSTEN ALLOYS
DMIC-191 N64-13839 04-18

RHENIUM-TUNGSTEN COILED FILAMENTS IN MAGNETIC FIELD OF STELLARATOR AND OPERATED UNDER PULSED AND STEADY CONDITIONS
MATT-229 N64-14144 05-23

ELECTRON EMISSION TEST OF URANIUM CARBIDE COMPATIBILITY WITH TUNGSTEN ALLOYS FOR NUCLEAR FUEL ELEMENTS N64-14212 06-18

PROTECTIVE COATINGS FOR TANTALUM-TUNGSTEN BASE ALLOYS
RDR-1360-2 N64-14776 06-18

RARE EARTH ALLOYS, HAFNIUM CARBIDE, THORIUM ALLOY, MELTING & CASTING METHODS, AND TUNGSTEN-RHENIUM TUBING DEVELOPMENTS
USBM-U-1091 N64-15838 07-18

LATTICE MEASUREMENTS BY VEGARD LAW PLOTS OF RUTHENIUM-MOLYBDENUM, RUTHENIUM-TUNGSTEN, AND RUTHENIUM-TANTALUM ALLOYS
AD-429068 N64-15884 07-25

PERFORMANCE OF TUNGSTEN-TUNGSTEN 26 RHENIUM THERMOCOUPLES TO ABOUT 5000 DEGREES FAHRENHEIT
NASA-CR-55626 N64-16269 08-23

DEPENDENCE OF THERMIONIC EMISSION OF TUNGSTEN ALLOYED WITH TITANIUM & HAFNIUM ON COMPOSITION AND ON OXYGEN PRESSURE
FTD-MT-63-37/1&264 N64-16410 08-25

ALLOYING TUNGSTEN AND MOLYBDENUM WITH PEARLITIC STEEL - HIGH TEMPERATURE ALLOY N64-17029 09-18

RESISTANCE TO PLASTIC DEFORMATION & HARDNESS OF BINARY SYSTEMS OF NICKEL WITH CHROMIUM, TUNGSTEN, AND MOLYBDENUM AT HIGH TEMPERATURES
N64-17068 09-18

ELECTRON BEAM WELDING OF NIOBIUM, TUNGSTEN, MOLYBDENUM, NICKEL, AND ALUMINUM ALLOYS
N64-17211 09-18

ELECTROFORMING, ELECTROCOMBINATION, AND CHEMICAL VAPOR DEPOSITION OF NIOBIUM-TUNGSTEN ALLOY
ML-TDR-64-26 N64-18564 11-17

METALLURGICAL PROCESSING OF TANTALUM-TUNGSTEN ALLOY EXTRUSION SURFACES
ASD-IR-7-783/3/ N64-18576 11-17

EXTRUSION, FORGING, ROLLING, AND SWAGING OF TUNGSTEN-BASE ALLOYS
ASD-TDR-62-670, PT. 2 N64-18577 11-18

RARE EARTH ALLOY, HAFNIUM CARBIDE, THORIUM ALLOY, URANIUM-CARBON-OXYGEN SYSTEM, TUNGSTEN-RHENIUM TUBING, & COLD-MOLD MELTING RESEARCH
USBM-U-1109 N64-19030 11-18

POWDER METALLURGY - SINTERING TUNGSTEN POWDER, PLASTIC FLOW IN SINTERED GLASS, AND FOAMED METAL STRUCTURES
AD-437378 N64-19163 11-18

SINTERING AND FABRICATION IMPROVEMENTS FOR TERNARY ALLOYS - TUNGSTEN BASE SHEET ALLOY
QPR-3 N64-19626 12-18

THERMAL-MECHANICAL PROCESSING EFFECT ON TENSILE STRENGTH OF TUNGSTEN-NIOBIUM ALLOY
ASD-TDR-63-782 N64-19654 12-18

CREEP RESISTANCE OF STEELS CONTAINING VARYING AMOUNTS OF NICKEL AND ALLOYED WITH TUNGSTEN OR MOLYBDENUM
FTD-TT-64-48/162 N64-19769 12-18

ROOM TEMPERATURE DUCTILE TUNGSTEN-BASE ALLOY
AD-600764 N64-21462 14-18

TUNGSTEN-COBALT AND NICKEL ALLOY PRODUCTION BY DEPOSITION FORMING PROCESSES
AD-600315 N64-21582 15-18

MODULUS OF ELASTICITY OF NICKEL-TUNGSTEN ALLOY AS FUNCTION OF TUNGSTEN CONTENT N64-22172 15-18

TENSILE PROPERTIES OF TUNGSTEN-RHENIUM AT HIGH TEMPERATURES IN VACUUM
NASA-CR-56462 N64-23945 16-18

HIGH TEMPERATURE COBALT-TUNGSTEN ALLOYS FOR AEROSPACE APPLICATIONS
SAE PAPER-843D N64-24005 16-18

MECHANICAL PROPERTIES AND FABRICATION OF NIOBIUM-TUNGSTEN-ZIRCONIUM ALLOY SHEET
A742 N64-24210 16-18

POWDER-ROLLING OF TUNGSTEN-URANIUM DIOXIDE DISPERSION ALLOY SHEETS FOR USE AS FUEL ELEMENTS
LA-2485 N64-24575 17-18

TENSILE FRACTURE STRESS OF TUNGSTEN-URANIUM OXIDE CERMETS FABRICATED BY PNEUMATIC IMPACTION
HW-79676 N64-25964 18-18

DEVELOPMENT AND EVALUATION OF TUNGSTEN-BASE ALLOY
AD-600086 N64-26504 18-18

HOT PRESSING OF ELEMENTAL METAL POWDERS TO FORM TUNGSTEN ALLOYS
SSD-TDR-64-91 N64-27441 19-18

MOLYBDENUM, NIOBIUM, TANTALUM, AND TUNGSTEN BASE ALLOYS AT ELEVATED TEMPERATURE - REFRACTORY ALLOY
N64-27580 19-18

POWDER METALLURGY CONSOLIDATION OF TUNGSTEN, MOLYBDENUM, NIOBIUM, AND TANTALUM ALLOYS-REFRACTORY ALLOYS N64-27595 19-18

DEPOSITION FORMING OF COBALT-TUNGSTEN AND NICKEL ALLOYS BY ELECTROCOMBINATION PROCESS
IPR-2 N64-31135 22-17

FABRICATION OF HIGH PURITY SMALL DIAMETER THIN WALL TUNGSTEN TUBING AND TUNGSTEN ALLOY
ANL-6806 N64-31270 22-17

ALLOY EFFECTS ON ROOM TEMPERATURE TENSILE PROPERTIES AND MICROSTRUCTURE OF TUNGSTEN-FIBER REINFORCED COPPER ALLOY COMPOSITES
NASA-RP-311 N64-31442 23-17

CHEMICAL AND PHYSICAL PROPERTIES OF TERNARY PHASES OF TUNGSTEN AND TUNGSTEN-BASE ALLOY OXIDATION
ML-TDR-64-230, PT. I N64-31970 23-18

QUANTITATIVE ANALYSIS OF PLAIN AND ALLOYED TUNGSTEN FOR IRON, COPPER AND COBALT
T65-1-1 N64-32548 23-18

FIELD ION MICROSCOPY OF HEAT TREATED TUNGSTEN ALLOYS AND OF POINT DEFECTS IN IRRADIATED PLATINUM WIRE
NASA-CR-58771 N64-32889 24-18

DEFORMATION UNDER PRESSURE TESTS ON NICKEL, MARAGING STEELS, MAGNESIUM OXIDE, TUNGSTEN-TANTALUM ALLOY, AND CHROME-MAGNESIUM COMPOSITE
NASA-CR-58946 N64-33097 24-18

EXTRUSION, RECRYSTALLIZATION, AND MICROSTRUCTURE OF TUNGSTEN ALLOYS
AD-445063 N64-33752 24-18

TUNGSTEN COMPOUND
COMPUTED CHEMICAL EQUILIBRIA OVER LONG RANGE OF HIGH TEMPERATURES BETWEEN ROCKET EXHAUST GASES AND COMPOUNDS OF TANTALUM, TUNGSTEN, AND HAFNIUM
U-2384/2 N64-12866 04-07

REACTION OF GASEOUS OXYGEN WITH TUNGSTEN AND TANTALUM IN INITIAL STAGES OF OXIDATION
AROD-2734-2 N64-18910 11-07

CHEMICAL AND PHYSICAL PROPERTIES OF TERNARY PHASES OF TUNGSTEN AND TUNGSTEN-BASE ALLOY OXIDATION
ML-TDR-64-230, PT. I N64-31970 23-18

TUNGSTEN HALIDE
PREPARATION AND REACTION OF TUNGSTEN HALIDES & HALIDE COMPLEXES
IS-741 N64-17824 09-07

TUNGUSK METEORITE
INVESTIGATION OF TUNGUSK METEORITE
N64-25063 17-05

COMPARISON OF GEOMAGNETIC EFFECTS OF NUCLEAR EXPLOSIONS AND TUNGUSK METEORITE EXPLOSION OF 190
FTD-MT-64-266 N64-31884 23-12

TUNING
AUTOMATIC TUNING SYSTEM - OPTIMIZATION OF FERRITE SWITCH BY VARYING FERRITE PARAMETERS
N64-12741 04-09

CIRCUITRY OF LOW FREQUENCY BLOCKS AND UNITS OF CONTINUOUS WAVE RADARS
N64-15141 07-08

TUNABLE FILTER EMPLOYING NUCLEAR MAGNETIC RESONANCE
RADC-TDR-63-526 N64-15822 07-18

ELECTRONICALLY TUNABLE CONVERTERS IN MILLIMETER WAVE RANGE
NASA-CR-53585 N64-18438 10-09

ELECTRONICALLY TUNED MICROWAVE FILTER USING SPHERE OF YTTRIUM-IRON GARNET AS TUNABLE RESONANT CIRCUIT
RE-TR-63-26 N64-19052 11-09

DESIGN OF ONE-LAYER AND THREE-LAYER TUNABLE RADOMES
REPT.-1751-4 N64-21746 15-08

ELECTRONICALLY TUNABLE CONVERTERS IN MILLIMETER WAVE RANGE
NASA-CR-56507 N64-23524 16-09

ELECTRICALLY TUNED FILTERS USING YTTRIUM-IRON-GARNET AND GALLIUM-DOPED YTTRIUM-IRON GARNET RESONATORS
W-J-64-609R24 N64-23961 16-09

MISMATCH ERRORS AND LAW ALGORITHMS FOR SELF-TUNING SYSTEM
N64-26394 18-09

TUNABLE RESISTANCE-CAPACITANCE NULL NETWORKS
AD-406998 N64-27173 19-09

EPITAXIAL DEPOSITION FABRICATION OF SEMICONDUCTOR DIODES FOR ELECTRONIC TUNING
R-182.1 N64-29390 21-25

TUNNEL
SA SHOCK TUNNEL
LANGLEY HOTSHOT TUNNEL AND REAL-GAS CORRECTION FACTORS FOR NITROGEN FLOW
NASA-TN-D-2023 N64-12103 03-10

STRUCTURAL FAILURE OF DISTORTED TUNNEL BY DYNAMIC BLAST LOADS
N64-12412 04-12

FORCE, PRESSURE, HEAT TRANSFER, & SHOCK SHAPE IN HOYSHOT TUNNEL & SHOCK TUNNEL
AEDC-TDR-64-1 N64-14974 06-02

CONDENSATION OF NITROGEN IN HOTSHOT TUNNELS
AEDC-TDR-64-35 N64-17521 09-10

TUNGSTEN AND COPPER-FILLED TUNGSTEN AS THROAT MATERIALS IN HOTSHOT WIND TUNNEL
AEDC-TDR-64-56 N64-18371 10-18

COMPUTATION OF TEST SECTION, AFTER SHOCK, AND STAGNATION CONDITIONS IN HOTSHOT TUNNELS USING NITROGEN AT STAGNATION TEMPERATURES
AEDC-TDR-64-50 N64-21714 15-13

NOZZLE AND TEST SECTION FOR HYPERSONIC GUN TUNNEL
AU-II-166-1 N64-22100 15-02

ULTRAHIGH SPEED CAVITATION TUNNEL
N64-25734 17-11

ARC CHAMBERS AND INSTRUMENTATION DEVELOPMENT OF HOTSHOT TUNNEL
N64-26143 18-13

RESPONSE OF FOAM ISOLATED TUNNEL LININGS TO TRANSIENT LOADINGS
NL-TDR-64-28 N64-32204 23-34

TUNNEL DIODE
BEHAVIOR OF TUNNEL DIODE IN FAST LOW-LEVEL PULSE HEIGHT DISCRIMINATOR
EUR-406.E N64-10415 01-09

PERFORMANCE CHARACTERISTICS OF MODULAR NANOSECOND CIRCUITRY USING TUNNEL DIODES
N64-12558 04-09

NEGATIVE RESISTANCE OF TUNNEL DIODES
N64-12735 04-09

TUNABLE L-BAND TUNNEL DIODE OSCILLATOR
QPR-5 N64-14293 06-09

TUNNEL DIODE CIRCUITS COUPLED INTO TRANSMISSION LINES
ONR-155 N64-14491 06-09

CONVERSION OF ENERGY BY SEA WATER BATTERY PLUS TUNNEL DIODE CONVERTER AS POWER SOURCE
NRL-5961 N64-15129 07-06

BROADBAND TUNNEL DIODE AMPLIFIER DESIGN
EDL-M583 N64-16435 08-09

DEVELOPMENT OF CIRCULAR DOT AND DISTRIBUTED JUNCTION DIODES AND OF STRIPLINE AND WAVEGUIDE OSCILLATOR CIRCUITS
AD-431542 N64-16988 09-09

GERMANIUM AND GALLIUM ARSENIDE TUNNEL DIODE CONVERTERS
N64-17430 09-06

LOW NOISE TUNNEL DIODE MIXERS AND CONVERTERS
RADC-TDR-63-561 N64-18015 10-09

NONLINEAR OSCILLATIONS IN TUNNEL DIODES
AFCRL-64-21 N64-19055 11-09

REALIZATION OF TRANSFER FUNCTIONS OF RESISTANCE-CAPACITANCE TUNNEL DIODE NETWORKS
EE-574 N64-19871 12-09

OPTIMUM PERFORMANCE TESTING OF X-BAND TUNNEL DIODE OSCILLATOR
QPR-2 N64-20097 13-09

DEGRADATION RATE IN GALLIUM ARSENIDE TUNNEL DIODES FOR FAILURE PREDICTION
N64-20986 14-25

FAILURE MECHANISMS IN GALLIUM ARSENIDE TUNNEL DIODES
N64-21000 14-09

TUNNEL DIODES AND POINT CONTACT DIODES FOR USE AS MIXERS AT 3.2 MILLIMETERS
REPT.-2 N64-22199 15-09

PROPERTIES, ADVANTAGES, AND DEFECTS OF MICROWAVE TUNNEL DIODES
EDL-M609 N64-22712 15-09

LOW VOLTAGE HIGH CURRENT INVERTER USING TUNNEL DIODES
NASA-CR-56570 N64-24027 16-09

GALLIUM ARSENIDE TUNNEL DIODES FOR STATIC INVERTER
ASD-TR-63-681 N64-24134 16-09

OPERATION OF TUNNEL DIODE IN PULSE CIRCUITS
N64-24508 17-09

P-N TUNNEL DIODE JUNCTION STRUCTURE FOR MICROWAVE GENERATION
AL-TDR-64-129 N64-25330 17-09

TUNNEL DIODES FOR PHASED ARRAY RADAR SYSTEMS
QPR-3 N64-25721 17-09

APPLICATION OF TUNNEL DIODE IN HIGH SPEED COMPUTERS
JPRS-25368 N64-26057 18-09

APPLICATION OF TUNNEL DIODES TO ANTENNA SYSTEMS
RADC-TDR-64-216 N64-26193 18-08

MECHANICALLY TUNABLE TUNNEL-DIODE CONVERTER
EDL-M666 N64-26315 18-09

GALLIUM ARSENIDE TUNNEL DIODE FABRICATION AND CIRCUIT DESIGN FOR TUNABLE OSCILLATOR
QPR-7 N64-27706 19-09

TEN MILLIWATT TUNNEL DIODE OSCILLATOR
QPR-3 N64-27738 19-09

TUNNEL DIODE MULTIVIBRATORS AND ADDRESS SCALERS FOR FAST COUNTING
EUR-528.E N64-28629 20-09

GENERAL PROPERTIES OF TUNNEL-DIODE-LOADED DIPOLE ANTENNA
REPT.-1566-8 N64-30136 21-09

TUNNEL DIODES FOR PHASED ARRAY RADAR
AD-602771 N64-30752 22-09

TUNNEL DIODES AND POINT CONTACT DIODES FOR USE AS MILLIMETER WAVE MIXERS
REPT.-4 N64-31125 22-09

HIGH-CURRENT GERMANIUM AND GALLIUM ARSENIDE TUNNEL DIODES
AD-421897 N64-31238 22-09

L-BAND GALLIUM ARSENIDE TUNNEL DIODE OSCILLATOR
REPT.-4 N64-31691 23-09

NOISE-FIGURE MEASUREMENTS OF X-BAND WAVEGUIDE MIXER WITH TUNNEL DIODE
AFCRL-64-547 N64-31807 23-09

TUNNELING
ELECTRON TUNNELING BETWEEN SUPERCONDUCTORS THROUGH THIN FILM DIELECTRIC STRUCTURES
AL-TDR-64-46 N64-26292 18-25

GAMMA IRRADIATED LASER MATERIALS, TUNNELING STUDIES, MILLIMETER WAVE MASERS, GAS LASERS - SOLID STATE STUDIES N64-27998 20-23

TURBINE
SA STATOR
TWO-STAGE LOW REACTION TRACTION TURBINE SUITABLE FOR GAS TURBINE LOCOMOTIVE
MT-50 N64-14084 05-06

HEAT & MASS TRANSFER IN TURBINE CONTACTOR
DP-847 N64-14396 06-17

VELOCITY DISTRIBUTION ESTIMATION AT INLET OF AXIAL-FLOW TURBOMACHINE
ASME PAPER 63-WA-162 N64-15664 07-02

COOLING OF HIGH TEMPERATURE, RADIAL-FLOW TURBINES
K-518 N64-16508 08-13

ROOM TEMPERATURE BURST STRENGTH AND DUCTILITY OF MODEL DISKS IN FERRITE TURBINE DISK MATERIAL
ARC-CP-660 N64-16529 08-33

TUNNEL TESTS ON DOUBLE CASCADES TO DETERMINE INTERACTION BETWEEN ROTOR AND NOZZLES IN SUPERSONIC TURBINES
ARC-CP-693 N64-16939 09-02

WELDING TURBINE COMPONENTS FABRICATED FROM HEAT RESISTANT ALLOYS N64-17090 09-17

LIQUID HYDROGEN TURBINE-POWER ABSORBER AND HEAT EXCHANGER RECOVERY SYSTEMS
NASA-CR-54010 N64-18417 10-06

STAGE SPACING EFFECT ON PERFORMANCE OF TWO-STAGE TURBINE WITH PARTIAL ADMISSION IN FIRST STAGE
NASA-TN-D-2335 N64-21272 14-27

TEMPERATURE FIELD AND GRADIENTS IN ELEMENTS OF WELDED DISK TYPE TURBINE ROTOR UNDER STARTING CONDITIONS
FTD-TT-62-1363/1&2 N64-22165 15-13

REYNOLDS NUMBER AND MACH NUMBER EFFECT ON TURBINE TANGENITAL FLOW
CORD-64-7032 N64-22230 15-27

EFFICIENCY OF RADIAL-AXIAL TURBINE AS AFFECTED BY AERODYNAMIC PROPERTIES OF RUNNER
FTD-TT-62-1801/1&2&4 N64-23293 16-11

FLOW STABILITY ON CYLINDRICAL BODY - RADIAL-AXIAL TURBINE AND TURBOJET ENGINE THROTTLING
FTD-TT-62-1644/1&2&4 N64-23470 16-01

VANELESS DEFLECTOR FOR RADIAL-AXIAL TURBINES N64-23472 16-11

APPROXIMATE SOLUTION TO TWO-DIMENSIONAL STATIONARY HEAT CONDUCTION PROBLEM AND DETERMINING EFFECT OF ARTIFICIAL COOLING ON TURBINE COMPONENTS N64-23488 16-13

FREQUENCY RESPONSE OF HYDROELECTRIC TURBINE N64-23894 16-09

SPRING TO PREVENT OSCILLATION IN THRUST BEARING OF HIGH SPEED TURBINE
FTD-TT-63-161/1&2 N64-24264 17-17

DETECTION OF TURBINE WHEEL TEMPERATURES IN J-47 AND TURBOJET ENGINES USING TOTAL RADIATION PYROMETER
AD-426917 N64-24383 17-15

TIP TURBINE-DRIVEN VTOL TURBOFAN
NRC-7761 N64-25130 17-04

VELOCITY MEASUREMENT AND HEAT TRANSFER IN TURBINES AND COMPRESSORS
FTD-TT-62-1784/1&2 N64-27126 19-13

VELOCITY MEASUREMENT IN AXIAL FLOW COMPRESSORS AND TURBINES N64-27127 19-11

FLUID DYNAMICS AND MECHANICAL ENGINEERING OF LIQUID POTASSIUM TWO-STAGE TURBINE
NASA-CR-54115 N64-28056 20-06

MATERIAL SPECIFICATIONS AND INSTRUMENT TEST MEASUREMENT STANDARDS FOR BOILER AND TURBINE RESEARCH FACILITY
AD-602036 N64-28869 20-15

HIGH HEAD KAPLAN TURBINE RESEARCH - HYDRAULIC EFFICIENCY AND CAVITATION PERFORMANCE
REPT.-144 N64-31433 23-11

GAS FLOW IN CHANNEL OF AXIAL FRICTION TURBINE N64-31756 23-02

DESIGN DESCRIPTION OF TURBINE WITH VARIABLE PARAMETERS AT INLET
FTD-MT-63-294 N64-33703 24-27

TURBINE BLADE
ENDURANCE TESTING FOR SPLASH-COOLED COMBUSTOR AND FOR CORROSION PROTECTION OF TURBINE BLADING ALLOYS
REPT.-851-63R N64-12936 04-26

AERODYNAMIC CHARACTERISTICS OF LONG BLADES FOR LAST STAGES OF TURBINE
FTD-TT-63-133/1&2&3&4 N64-16478 08-03

FABRICATING TURBINE BLADE BLANK FROM HEAT RESISTANT ALLOYS N64-17088 09-17

USE OF ANALOGS TO DETERMINE TURBINE BLADE COOLING
FTD-TT-63-1104/1&2 N64-21942 15-03

EFFECT OF THERMOCONDUCTIVITY OF TURBINE BLADE MATERIAL ON TEMPERATURE IN BLADE
FTD-TT-64-146/1&2 N64-22163 15-13

PRODUCTION OF CAST TURBINE BLADES FROM HEAT-RESISTANT ALLOYS N64-24585 17-17

SOLDERING GAS TURBINE BLADES
FTD-TT-64-142/1&2&4 N64-25446 17-15

HEAT RESISTING ALLOYS FOR TURBINE AND COMPRESSOR BLADES
JPRS-24845 N64-25852 18-18

FLOW OVER TURBINE INLET LATTICES AND TEMPERATURE DISTRIBUTION IN ROOT JOINT OF COOLED GAS TURBINE BLADE
FTD-MT-63-202 N64-26729 18-11

CALCULATION OF TRANSIENT TEMPERATURES IN TURBINE BLADES AND TAPERED DISKS USING BIOT VARIATIONAL METHOD
ARC-CP-617 N64-28255 20-13

CONFERENCE ON MANUFACTURE OF BLADES - PRECISION CASTING AND SHAPING OF TURBINE BLADES
FTD-TT-64-305/1&2&3&4/ N64-31513 23-17

PRODUCTION OF TURBINE BLADES BY INVESTMENT CASTING FROM REFRACTORY ALLOYS N64-31516 23-17

PRECISION CASTING OF TURBINE BLADES AND BLADE RIMS BY LOST WAX PROCESS N64-31517 23-17

VACUUM MELTING AND CASTING OF NICKEL-BASED ALLOYS FOR GAS TURBINE BLADES N64-31518 23-17

PRODUCTION TECHNIQUES FOR PRECISION-FORGED TURBINE BLADES N64-31521 23-17

AVIATION FUEL SULFUR CONTENT AND SEA WATER INGESTION EFFECT ON HOT GAS CORROSION OF SUPERALLOYS IN HIGH PERFORMANCE ENGINES
REPT.-3686-64R N64-31632 23-18

THERMAL RESISTANCE OF TURBINE BLADE ROOT JOINTS
RSIC-261 N64-32495 23-13

TURBINE ENGINE
THREE-STAGE REVERSE FLOW REENTRY TURBINE ENGINE
NASA-TN-D-2076 N64-10184 01-02

STRUCTURAL DAMPING OF OSCILLATIONS OF THIN WALLED SHELLS FOR HOUSING COMPONENTS OF GAS TURBINE ENGINE
FTD-MT-63-131 N64-18680 11-34

COMBUSTION CHAMBERS OF AVIA TURBINE ENGINE
FTD-TT-63-67/1&2 N64-22339 15-27

AIRCRAFT GAS TURBINE ENGINES
FTD-TT-63-405/1&2 N64-26190 18-27

PEFORMANCE CHARACTERISTICS OF AIR TURBO-EXCHANGER ENGINE
MF-180 N64-26801 18-27

FUEL CONSUMPTION FOR TURBINE JET ENGINES - FUEL COMPONENTS
FTD-TT-64-349/1&2 N64-30544 22-26

TEST RIG TO EVALUATE EXPERIMENTAL GAS TURBINE LUBRICANTS AT HIGH TEMPERATURE
APL-TDR-64-49 N64-31941 23-17

TURBINE NOZZLE
TUNNEL TESTS ON DOUBLE CASCADES TO DETERMINE INTERACTION BETWEEN ROTOR AND NOZZLES IN SUPERSONIC TURBINES
ARC-CP-693 N64-16939 09-02

TURBO ELECTRIC CONVERSION
COBALT-BASE ALLOY INVESTIGATION FOR APPLICATION TO TURBOELECTRIC SPACE-POWER SYSTEMS
NASA-RP-116 N64-13351 04-18

TURBOCHARGER
SEE CENTRIFUGAL COMPRESSOR

TURBOCONVERTER
OPTIMIZATION OF THERMODYNAMIC PROPERTIES AND WORKING CONDITIONS OF ENERGY TURBOCONVERTER
N64-18485 10-06

TURBOJET AIRCRAFT
DESIGN OF TURBOJET & TURBOPROP AIRCRAFT AND COMPONENTS - TEXTBOOK
FTD-TT-62-913/1&2 N64-14768 06-04

TURBOJET AIRCRAFT INSTRUMENTS FOR LANDING SYSTEM FOR USE UNDER CATEGORY III WEATHER CONDITION
N64-20934 14-15

GLIDE SLOPE ANTENNAS FOR AIRCRAFT LANDING SYSTEM FOR TURBOJET AND OTHER FAST AIRCRAFT
N64-20935 14-09

V/STOL AIRCRAFT - HELICOPTER, PROPELLER, DUCTED FAN, AND TURBOJET AIRCRAFT HANDLING QUALITIES
NASA-RP-286 N64-28229 20-04

MECHANICAL DESIGN OF GAS-COOLED HIGH TEMPERATURE NUCLEAR CERAMIC REACTORS, FOR USE IN DIRECT AIR CYCLE NUCLEAR TURBOJET AIRCRAFT
NASA-CR-52955 N64-29790 21-23

TURBOJET ENGINE
LIFE AND RELIABILITY INCREASE FOR USSR AIRCRAFT TURBOJET ENGINE
FTD-MT-63-108/1&2&3&4 N64-14387 06-27

STARTING INTERPLANETARY FLIGHT WITH TURBOJET ENGINE AND DECELERATION AT REENTRY WITH ROTOR
FTD-MT-63-224 N64-18764 11-30

TURBOJET & TURBOFAN ENGINES FOR SUPERSONIC TRANSPORTS
AIAA PAPER-64-244 N64-21540 15-27

DUCTED FAN TURBOJET ENGINES
FTD-TT-62-1751/1&4 N64-21658 15-27

THERMODYNAMIC ANALYSIS OF TURBOJET ENGINE OPERATION
FTD-TT-63-515/1&2 N64-22183 15-27

INFLUENCE OF COMPRESSOR PROPERTIES ON TURBO-JET PROPULSION ENGINE CONSTRUCTION
FTD-TT-62-1666/1&2 N64-22392 15-27

SYNTHESIZING BLOCK DIAGRAM FOR SELF-ADJUSTING CONTROL SYSTEMS FOR TURBOJET ENGINES WITH AFTERBURNERS
FTD-TT-62-1655/1&2&4 N64-23287 16-06

FLOW STABILITY ON CYLINDRICAL BODY - RADIAL-AXIAL TURBINE AND TURBOJET ENGINE THROTTLING
FTD-TT-62-1644/1&2&4 N64-23470 16-01

THROTTLING CHARACTERISTICS OF SINGLE SHAFT BYPASS TURBOJET ENGINES IN DIFFERENT CONTROL PROGRAMS
N64-23473 16-21

AUTOMATIC CONTROL OF NONSTEADY ENGINE WITH ASTATIC TEMPERATURE REGULATOR N64-23593 16-04

DYNAMIC PROPERTIES OF TURBOJET ENGINES AS UNITS IN AUTOMATIC FLIGHT CONTROL SYSTEMS
N64-23594 16-06

TURBOJET ENGINE AND TURBOJET WITH AFTERBURNER AS UNIT IN AUTOMATIC AIRCRAFT CONTROL SYSTEMS
N64-23595 16-06

ULTRASONIC INSPECTION METHODS FOR COMPRESSOR BLADE OF TURBOJET ENGINE - FLAW DETECTION
AD-436289 N64-23649 16-02

DETECTION OF TURBINE WHEEL TEMPERATURES IN J-47 AND TURBOJET ENGINES USING TOTAL RADIATION PYROMETER
AD-426917 N64-24383 17-15

DYNAMIC EQUATIONS OF AIR INTAKE & CONTROL SYSTEMS FOR TURBOJET ENGINES OPERATING IN TURBULENT ATMOSPHERES N64-25434 17-04

FORMULAS FOR TURBOJET ENGINE ACCELERATION TIMING REGULATORS N64-25435 17-27

RANJET AND TURBOJET ENGINE COMBUSTION INSTABILITY
N64-28593 20-26

TURBOJET AND RANJET PERFORMANCE MEASURED AT SIMULATED ALTITUDE N64-28596 20-27

LUBRICATION OF TURBOJET AND TURBOPROP ENGINES
FTD-TT-64-143/1&2 N64-30153 21-17

STRUCTURAL DYNAMICS OF ROTOR AND BEARINGS IN HELICOPTER WITH BLADE MOUNTED TURBOJET ENGINES
FTD-MT-63-264 N64-32397 23-27

TURBOMACHINE
THEORY OF VORTEX FLOW IN TURBOMACHINES - AXIAL VELOCITY PROFILES GOVERNED BY SINGLE PARAMETER
ARC-REM-3335 N64-10017 01-11

TURBULENCE IN LUBRICANT FOR TURBOMACHINES - SPACECRAFT POWER SUPPLY
NASA-CR-55803 N64-16034 07-17

TURBOPROP AIRCRAFT
DESIGN OF TURBOJET & TURBOPROP AIRCRAFT AND COMPONENTS - TEXTBOOK
FTD-TT-62-913/1&2 N64-14768 06-04

TURBOPROP ENGINE
WIND-TUNNEL TESTS OF TURBOPROP ENGINE
FAA-ADS-2 N64-16732 08-27

CONTROL DYNAMICS OF TURBOPROP ENGINE WITH NEGATIVE THRUST LIMITER N64-25437 17-27

LUBRICATION OF TURBOJET AND TURBOPROP ENGINES FTD-TT-64-143/1&2 N64-30153 21-17

TURBULENCE
SA ATMOSPHERIC TURBULENCE
SA GUST
SA PLASMA TURBULENCE
CF BOUNDARY LAYER CONTROL
CF BOUNDARY LAYER TRANSITION
TURBULENT CIRCULAR AND FLAT STREAM DEVELOPMENT IN COUNTERFLOW
FTD-TT-63-372/1&2&4 N64-11154 02-02

FORECASTING CLEAR AIR TURBULENCES
RSIC-115 N64-13802 05-21

BURGERS MODEL EQUATION FOR STATISTICAL THEORY OF TURBULENCE
REPT.-2900-373 N64-13866 05-20

DIRECT INTERACTION APPROXIMATION FOR STATIONARY ISOTROPIC TURBULENCE MAINTAINED BY RANDOM STIRRING FORCES AT WAVENUMBER FREQUENCY
RR-3 N64-14703 06-11

NUMERICAL INTEGRATION OF DIRECT INTERACTION EQUATIONS FOR DECAY OF ISOTROPIC TURBULENCE
RR-4 N64-14704 06-11

COMPUTATIONAL APPROACHES TO SOME MATHEMATICAL MODELS OF TURBULENCE
RM-3819-ARPA N64-16652 08-20

AIRCRAFT & RADAR ECHO MEASUREMENT OF THUNDERSTORM TURBULENCE N64-16895 09-21

COMPUTATIONAL APPROACH TO MATHEMATICAL MODEL OF TURBULENCE
RM-3918-ARPA N64-18014 10-20

STATISTICAL ANALYSIS OF VELOCITY DISTRIBUTION OF TURBULENCE IN MIXING REGION OF ROUND SUBSONIC JET
AGARD-451 N64-18721 11-11

TURBULENT MOTION & BOUNDARY LAYER NOISE GENERATED BY VIBRATIONS OF STEEL STRUCTURES
AGARD-465 N64-18992 11-11

ACOUSTIC SCATTERING BY TURBULENCE IN WIND TUNNELS
AGARD-461 N64-19912 12-23

TURBULENCE GENERATION IN PULSATING VISCOUS FLOW
NU-HYDRO-D12-TS N64-20304 13-11

EFFECTS OF CONTROLLED SURFACE ROUGHNESS AND FREE STREAM TURBULENCE ON BOUNDARY LAYER TRANSITION
SID-64-546 N64-21250 14-11

FREE-STREAM TURBULENCE IN SOME LOW-SPEED TUNNELS
ARC-R&M-3317 N64-21477 14-10

TURBULENT BASE FLOW BEHIND SLENDER SUPERSONIC REENTRY VEHICLES
DOC.-63SD849 N64-21566 15-02

INTENSITY OF DEEP TURBULENT EXCHANGE IN ATLANTIC OCEAN
JPRS-24788 N64-21728 15-12

ACOUSTIC DETECTION OF HIGH ALTITUDE TURBULENCES
REPT.-3746-38-T N64-22124 15-12

VOLUMETRIC CHEMICAL ENERGY AS MECHANISM FOR ENHANCING ISOTROPIC TURBULENCE OF COMPRESSIBLE FLUID MEDIUM
TR63-217D N64-23401 16-11

TURBULENCE AMPLIFIER IN FLUID LOGIC CIRCUIT N64-23821 16-11

HARDENABILITY OF TITANIUM BASE ALLOYS OBSERVED BY METALLOGRAPHIC EXAMINATION
ILL-13-P N64-25793 17-11

ENERGY SPECTRUM AND WIND TUNNEL TESTING OF TURBULENCE FLUCTUATION N64-26324 18-11

THUNDERSTORM TURBULENCE MEASUREMENTS BY AIRCRAFT AND CONCURRENT RADAR ECHO EVALUATIONS N64-27399 19-21

RADAR MEASUREMENT OF TURBULENCE IN FREE PURE ATMOSPHERE
JPRS-26086 N64-28021 20-21

TURBULENCE IN INTERSTELLAR GAS N64-28387 20-20

LOW LEVEL WIND PROFILES FOR CAPE KENNEDY SEP. 23 TO 25, 1963
NASA-TM-X-53027 N64-29177 21-21

F-TYPE RADIOSONDE AS TURBULENCE INDICATOR - ATMOSPHERIC TURBULENCE IN INDIA
TN-AE-23-64 N64-29882 21-21

SOLUTION FOR INERTIAL ENERGY SPECTRUM OF ISOTROPIC TURBULENCE
TR-64-02F N64-30528 22-11

APPROXIMATION FOR SHEAR AND BOUSSINESQ TURBULENCE YIELDING STATISTICAL EQUATION FOR INHOMOGENEOUS FLOW
AD-601159 N64-32194 23-11

EFFECT OF TURBULENT INNER SCALE ON PHASE STRUCTURE FUNCTION
TM-120 N64-32761 24-08

MATHEMATICAL MODEL OF TURBULENCE-INDUCED PANEL VIBRATION
AFOSR-64-0883 N64-32975 24-33

TURBULENCE DEVELOPMENT OF ELECTRICALLY CONDUCTING MEDIA - HOMOGENEOUS AND ELECTROSTATIC TURBULENCE - CHEMICAL APPROACH TO HOT WAKES
JHU-23-P N64-33491 24-24

TURBULENCE EFFECT
TURBULENT MIXING PROCESS BETWEEN CARBON DIOXIDE AND HYDROGEN CENTRAL JETS EXHAUSTING INTO MOVING CONCENTRIC AIRSTREAM
PIBAL-789 N64-16657 08-11

TURBULENCE EFFECTS IN FLUID MIXING & COMBUSTION
AROD-2013-8 N64-24937 17-11

TURBULENCE DATA ACQUISITION AND EFFECT OF TURBULENCE ON AIRCRAFT
NASA-CR-53381 N64-27398 19-21

TURBULENCE MEASURING APPARATUS
F-TYPE RADIOSONDE AS TURBULENCE INDICATOR - ATMOSPHERIC TURBULENCE IN INDIA
TN-AE-23-64 N64-29882 21-21

TURBULENT BOUNDARY LAYER
TURBULENT BOUNDARY LAYER, PRESSURE DRAG, AND SKIN DRAG OF DELTA WINGS AT ZERO LIFT & SUPERSONIC VELOCITY
ARC-CP-696 N64-10240 01-03

FLUCTUATING WALL PRESSURE UNDER SEPARATED, SUPERSONIC, TURBULENT BOUNDARY LAYER
NASA-CR-52528 N64-10441 01-11

UNIVERSAL LAW FOR CONVECTIVE HEAT TRANSFER IN TURBULENT BOUNDARY LAYER OF COMPRESSED GAS N64-11142 02-13

FRICTION, HEAT TRANSFER, AND MASS TRANSFER COEFFICIENTS FOR CONSTANT PROPERTY TURBULENT BOUNDARY LAYER ON FLAT PLATE
NOLTR-63-77 N64-12259 03-11

WALL PRESSURE FLUCTUATIONS IN TURBULENT BOUNDARY LAYER & RESPONSE OF STRUCTURES TO RANDOM PRESSURE FIELDS
AASU-243 N64-13069 04-01

WALL PRESSURE FLUCTUATIONS IN SUBSONIC TURBULENT BOUNDARY LAYER FLOW N64-13070 04-02

PANEL RESPONSE TO ACOUSTIC AND PRESSURE VIBRATION IN TURBULENT BOUNDARY LAYER N64-13071 04-33

FLOW STRUCTURE OF TURBULENT BOUNDARY LAYER

ND-8 N64-13758 05-11

CONVECTIVE HEAT TRANSFER FROM TURBULENT BOUNDARY LAYER IN COOLED CONVERGENT-DIVERGENT CONICAL NOZZLE
NASA-CR-55317 N64-13936 05-13

PRANDTL NUMBER DISTRIBUTION IN TURBULENT BOUNDARY LAYERS WITH HEAT TRANSFER AT SUPERSONIC SPEEDS
ORL-508 N64-14303 06-11

SPACE-TIME CORRELATION OF SURFACE PRESSURE FIELD OF TURBULENT BOUNDARY LAYERS IN NARROW FREQUENCY BANDS
AASU-200 N64-14320 06-11

TRANSITION FROM LAMINAR TO TURBULENT BOUNDARY LAYER IN FLAT STREAMS ALONG PLATES
FTD-MT-63-84/1&2&3&4 N64-14376 06-02

PARAMETRIC RELATIONS DERIVED FROM TURBULENT BOUNDARY LAYER PROFILE
TRECOM-TR-63-74 N64-14466 06-11

APPROXIMATION THEORY OF LAMINAR AND TURBULENT BOUNDARY LAYERS
DVL-84 N64-15247 07-11

APPROXIMATION THEORY OF COMPRESSIBLE TURBULENT BOUNDARY LAYERS
DVL-136 N64-15248 07-11

THERMAL EFFECTS OF SHOCKWAVE TURBULENT BOUNDARY LAYER INTERACTION N64-15641 07-13

SEMINAR ON MOLECULAR FLOW, GAS DYNAMICS, RADIATION AND SHOCK LAYERS, AND LAMINAR AND TURBULENT BOUNDARY LAYERS N64-16213 08-13

TURBULENT BOUNDARY LAYER FLUCTUATING WALL-PRESSURE FIELD PROPERTIES
AGARD-455 N64-16313 08-11

HEAT TRANSFER AND FRICTION ON PERMEABLE WALL IN TURBULENT BOUNDARY LAYERS OF GAS FLOW
FTD-TT-62-1315/1&2&4 N64-16395 08-11

IMPERVIOUS TURBULENT BOUNDARY LAYER MEASUREMENTS USING INTEGRATING BOUNDARY LAYER MOUSE
TRECOM-TR-63-70 N64-16828 08-11

PRESSURE AND FREQUENCY DISTRIBUTION IN TURBULENT LAYERS ON SMOOTH SURFACES
RTD-TDR-63-4012 N64-17117 09-23

CORRELATION BETWEEN FLUCTUATING VELOCITIES AND FLUCTUATING WALL PRESSURE IN THICK TURBULENT BOUNDARY LAYER
AGARD-456 N64-17234 09-11

EFFECT OF TRANSPIRATION COOLING ON PARTIALLY DISSOCIATED TURBULENT BOUNDARY LAYER OVER FLAT PLATES
NASA-CR-53247 N64-17576 09-13

HEAT TRANSFER AND RECOVERY TEMPERATURES OF TURBULENT BOUNDARY LAYER ON SHARP CONE WITH FOREIGN GAS INJECTION
NASA-TN-D-2230 N64-17827 09-13

WALL PRESSURE FLUCTUATIONS & PRESSURE-VELOCITY CORRELATIONS IN TURBULENT BOUNDARY LAYERS
NASA-TR-R-169 N64-17994 10-11

SURFACE PITOT TUBE AS SKIN FRICTION METERS IN SUPERSONIC TURBULENT BOUNDARY LAYERS
ARC-R&M-3391 N64-18153 10-15

PREDICTION OF BOUNDARY LAYER TURBULENCE AND NOISE DURING FLIGHT CONDITIONS N64-18547 11-30

METAL FATIGUE OF AIRCRAFT STRUCTURES DUE TO TURBULENT BOUNDARY LAYER PRESSURE FLUCTUATIONS AND BOUNDARY LAYER NOISE
AGARD-468 N64-18725 11-11

WIND TUNNEL TESTING OF TURBULENT BOUNDARY LAYER NOISE
NASA-TN-D-2247 N64-18733 11-11

TURBULENT BOUNDARY LAYER IN GAS FLOW USING VON KARMAN EQUATION
FTD-TT-63-284/1&2&4 N64-19212 11-11

LAW OF WALL FLOW FOR TURBULENT BOUNDARY LAYERS WITH SUCTION OR INJECTION
COA-AERO-166 N64-19323 12-11

MODIFIED VELOCITY DEFECT LAW FOR TURBULENT BOUNDARY LAYER WITH INJECTION
COA-AERO-170 N64-19324 12-11

FINITE DIFFERENCE METHOD SOLUTION OF NONSIMILAR, NONEQUILIBRIUM AIR, LAMINAR AND TURBULENT BOUNDARY LAYER FLOW
TECH. REPT.-422 N64-19553 12-11

COMPUTER PROGRAM FOR FINITE DIFFERENCE METHOD SOLUTION OF NONSIMILAR, NONEQUILIBRIUM AIR, LAMINAR AND TURBULENT BOUNDARY LAYER FLOWS
GASL-TR-422 N64-19554 12-11

TURBULENT BOUNDARY LAYER ON AXISYMMETRIC BODY REVOLVING IN AXIAL FLOW OF VISCOUS FLUID
FTD-TT-63-1137/1&2 N64-19762 12-02

BEHAVIOR OF THREE-DIMENSIONAL TURBULENT BOUNDARY LAYER ON ANNULAR WING AT VARIOUS INCIDENCES
AD-428671 N64-19928 12-20

WALL PRESSURE FLUCTUATIONS UNDER TURBULENT BOUNDARY LAYERS AT SUBSONIC AND SUPERSONIC SPEEDS
AGARD-454 N64-19937 12-11

COEFFICIENT OF TURBULENCE IN BOUNDARY LAYER OF ATMOSPHERE N64-20205 13-21

TURBULENT BOUNDARY LAYER ON AXISYMMETRIC BODIES AT SUPERSONIC SPEEDS
LB-31425 N64-21417 14-02

SURFACE PRESSURE MEASUREMENTS FOR SEPARATION OF SUPERSONIC TURBULENT BOUNDARY LAYER FLOW
SM-43062 N64-22007 15-11

FATIGUE CRACK PROPAGATION BY RANDOM PRESSURES IN TURBULENT BOUNDARY LAYERS
ISAV-MEMO-104 N64-22215 15-34

USE OF KARMAN THEORY FOR CALCULATING TURBULENT BOUNDARY LAYER ON FLAT PLATE
FTD-TT-62-1768/1&2 N64-23097 16-11

TURBULENT BOUNDARY LAYER ON FLAT PLATES N64-23687 16-11

COMPUTER PROGRAM FOR TURBULENT BOUNDARY LAYER OF INVISCID FLOW AT HYPERSONIC SPEEDS
NASA-CR-56368 N64-23996 16-11

TURBULENT BOUNDARY LAYER FOR FROZEN FLOW
NASA-CR-56367 N64-24118 16-11

EQUILIBRIUM TURBULENT BOUNDARY LAYER
FLD-13 N64-24993 17-11

AFTERBODY PRESSURES ON TWO-DIMENSIONAL BOATTAILED BODIES HAVING TURBULENT BOUNDARY LAYERS
NASA-TN-D-2380 N64-25604 17-03

SUPERSONIC WIND TUNNEL INVESTIGATION OF TURBULENT BOUNDARY LAYER ON AXISYMMETRIC BODIES
USCEC-65-52 N64-25694 17-11

THREE-DIMENSIONAL FLOW DISTURBANCES IN TWO-DIMENSIONAL INCOMPRESSIBLE TURBULENT BOUNDARY LAYER
ARC-R&M-3368 N64-25870 18-02

HEAT AND MASS TRANSFER THROUGH TURBULENT BOUNDARY LAYER ON FLAT PLATE AT HIGH MACH NUMBERS WITH AND WITHOUT CHEMICAL REACTION N64-26334 18-11

TURBULENT BOUNDARY LAYER BEHAVIOR IN ADVERSE PRESSURE GRADIENTS
REPT.-73 N64-26644 18-11

TURBULENT BOUNDARY LAYER OF GAS - THERMAL BARRIER AT SOLID SURFACE

FTD-TT-64-332/1&2&4 N64-26932 18-11

IBM 7094 COMPUTER PROGRAM FOR INVISCID FLOW FIELD ANALYSIS
NASA-CR-56369 N64-27912 20-11

TURBULENT BOUNDARY LAYER ON FLAT PLATE OF FINITE ASPECT RATIO AT ZERO INCIDENCE
ARC-R&M-3367 N64-28246 20-11

TURBULENT BOUNDARY LAYER WITH FLUID INJECTION AT HIGH SUPERSONIC SPEEDS
ARC-CP-740 N64-28769 20-11

HEAT TRANSFER RATES THROUGH HIGHLY COOLED TURBULENT BOUNDARY LAYER
NOLTR-63-276 N64-29296 21-13

HEAT TRANSFER MEASUREMENTS ON FLAT PLATE AND ATTACHED PROTUBERANCES IN TURBULENT BOUNDARY LAYER OVER RANGE OF MACH NUMBER, REYNOLDS NUMBER, AND ANGLE OF ATTACK
NASA-TN-D-2428 N64-29451 21-13

COMPARISON OF THEORY AND EXPERIMENTAL DATA FOR ANALYSIS OF TURBULENT BOUNDARY LAYER WITH AIR OR HELIUM INJECTION
REPT.-61SD49 N64-29524 21-11

APPLIED MECHANICS - HYPERVELOCITY IMPACT AND THERMAL RADIATION IN TURBULENT BOUNDARY LAYER
FTD-MT-63-262 N64-30361 22-11

THERMAL RADIATION EFFECTS ON HEAT EXCHANGE PROCESSES IN TURBULENT BOUNDARY LAYER
N64-30363 22-13

COMPRESSIBILITY AND HEAT TRANSFER EFFECTS ON LAMINAR SUBLAYER OF TURBULENT BOUNDARY LAYER
NASA-TN-D-1998 N64-31225 22-11

WALL PRESSURE FLUCTUATIONS AND PRESSURE VELOCITY CORRELATIONS IN TURBULENT BOUNDARY LAYERS CREATED BY AERODYNAMIC NOISE
AGARD-453 N64-31296 22-11

TURBULENT BOUNDARY LAYER OF NONTHERMOINSULATED WING OR AXISYMMETRIC BODY IN COMPRESSIBLE LIQUID
N64-31748 23-11

RAPID RESPONSE INSTRUMENTATION FOR TURBULENT FLUX MEASUREMENT IN BOUNDARY LAYER AND FILM READER SYSTEM - ANALOG STATISTICAL ANALYZER
AFCRL-64-147 N64-31846 23-15

STRUCTURE OF TURBULENT PRESSURE FIELD IN BOUNDARY LAYER FLOWS
N64-32792 24-11

EDDY DIFFUSIVITY AND HEAT TRANSFER IN TURBULENT BOUNDARY LAYER
RR-42 N64-32793 24-11

GROWTH DETERMINATION OF TURBULENT BOUNDARY LAYER ON RAMJET AIR INTAKES USING MASS ENTRAINMENT CONCEPT
REPT.-64-14 N64-32801 24-11

SPECTRAL DISTRIBUTIONS OF SPACE-TIME CORRELATIONS OF SPEED IN TURBULENT BOUNDARY LAYER
ONERA-TP-164/1964/ N64-33259 24-11

FINITE DIFFERENCE METHOD SOLUTION OF NONSIMILAR, NONEQUILIBRIUM AIR, LAMINAR AND TURBULENT BOUNDARY LAYER FLOWS - INPUT DATA MANUAL - DEFENDER PROJECT
TR-422 N64-33656 24-11

REDUCTION OF SKIN FRICTION WITH LOW ENERGY AIR INJECTION THROUGH DISCRETE SLOTS INTO TURBULENT BOUNDARY LAYER
NASA-TN-D-2102 N64-34018 24-11

TURBULENT DIFFUSION
ESTIMATION OF TURBULENCE AND GUST COEFFICIENT OF WIND IN JET STREAMS N64-10994 02-21

TURBULENT DIFFUSION FROM POINT SOURCE IN PIPE FLOW
AFCRL-63-727 N64-12291 03-11

TURBULENT AIR-BROMINE COAXIAL-FLOW DIFFUSION
NASA-TN-D-2121 N64-15161 07-11

TURBULENT DIFFUSION IN TOWING CHANNEL AND LAGRANGIAN AUTOCORRELATION FUNCTIONS
ANL-6794 N64-15609 07-11

TURBULENCE, DIFFUSION, AND GRAVITY WAVES IN TRANSITION REGION BETWEEN STRATOSPHERE AND IONOSPHERE
P-2774 N64-16249 08-12

TURBULENT DIFFUSION IN SURFACE LAYER OF EARTH ATMOSPHERE
JPRS-24490 N64-20201 13-21

TURBULENT DIFFUSION FROM POINT SOURCES IN SURFACE LAYER OF ATMOSPHERE N64-20202 13-21

DISTRIBUTION OF HEAVY HOMOGENEOUS ADMIXTURE FROM HIGH SOURCE IN TURBULENT DIFFUSION
N64-20204 13-21

EMISSION SPECTROSCOPIC TECHNIQUES IN MASS TRANSFER & TURBULENT DIFFUSION STUDIES
IS-738 N64-21801 15-07

METEOR TRAIL EXPANSION ATTRIBUTED TO TURBULENT DIFFUSION N64-24471 17-21

TURBULENT FLOW
CONVECTION VELOCITIES OF TURBULENT FLUCTUATIONS IN SHEAR FLOW
NPL-AERO-1050 N64-10018 01-11

SOUND SCATTERING IN TURBULENT FLOW
N64-10025 01-11

TURBULENT FLOW, WEATHER FORECASTING, FOG BOUNDARY LAYERS, RAIN INTENSITY CALIBRATION OF RADAR, HIGH SPEED TURBULENCE, & BIBLIOGRAPHY ON METEOROLOGY
JPRS-18141 N64-10570 01-21

INFLUENCE OF VIBRATION OF SPHERE ON CONVECTIVE HEAT & MASS EXCHANGE IN TURBULENT FLOW
N64-11968 03-13

EDDY THERMAL DIFFUSIVITY FOR TURBULENT FLOW OF WATER IN PIPES
IS-734 N64-12014 03-11

PROBLEMS OF LOCALLY ISOTROPIC TURBULENT MEDIUM - STRUCTURAL & SPECTRAL FUNCTIONS AND ENERGY DISSIPATION FIELD
MRC-416 N64-12247 03-11

HEAT TRANSFER AT HIGH TEMPERATURE DIFFERENCE IN TURBULENT AIRFLOW BETWEEN ROTATING CYLINDER AND STATIONARY OUTER CYLINDER
AFOSR-3207 N64-12847 04-13

PRESSURE DISTRIBUTION OF TURBULENT JET FLOW ON FLAT SURFACE
REPT. 63-12 N64-13046 04-02

TWO-DIMENSIONAL TURBULENT BASE FLOW ANALYSIS - APPROACHING BOUNDARY LAYER EFFECT
ARC-R&M-3344 N64-13361 04-11

COMBUSTION IN TURBULENT FLOW
NASA-TT-F-97 N64-13410 05-26

CALCULATION OF FLAME PROPAGATION IN TURBULENT FLOW
N64-13411 05-26

STRUCTURE OF COMBUSTION ZONE IN TURBULENT FLAME - MEASUREMENT OF IONIZATION PHENOMENA
N64-13412 05-26

COMBUSTION IN TURBULENT FLOW - MODELS
N64-13413 05-26

EXPERIMENTAL BASIS OF THEORY OF TURBULENT COMBUSTION N64-13414 05-26

OPTICAL DIFFUSION METHOD OF MEASURING TURBULENCE IN AIR FLOWS AND FLAMES N64-13415 05-26

TURBULENT GAS FLOW IN PISTON ENGINES - HOT-WIRE ANEMOMETER MEASUREMENTS N64-13416 05-26

TURBULENT AIR CURRENT CHARACTERISTICS OF FIRST 62 METERS OF ATMOSPHERE
ERDA-100 N64-13637 05-21

SHROUD EXCITATION BY PRESSURE OSCILLATION OF TURBULENT FLOW IN SUBSONIC JET
NPL-AERO-1064 N64-14238 06-23

CONSTRAINED TURBULENT SHEAR FLOWS OF NEWTONIAN FLUID SOLVENTS WITH POLYMER SOLUTES - ELASTIC VISCOUS FLUIDS
AIAA PAPER-64-36 N64-14656 06-11

DIRECT-INTERACTION APPROXIMATION FOR TURBULENCE EXTENDED TO SHEAR FLOWS AND BOUSSINESQ CONVECTION CONTAINED IN REGIONS OF ARBITRARY SIZE AND SHAPE
RR-2 N64-14706 06-11

RADIOACTIVE ISOTOPES IN ATMOSPHERE, PRECIPITATION SCAVENGING OF RADIOACTIVE AEROSOLS, & TURBULENT DIFFUSION OF AEROSOL - NUCLEAR METEOROLOGY
AEC-TR-6128 N64-14870 06-21

APPROXIMATION THEORY OF LAMINAR AND TURBULENT BOUNDARY LAYER COMPRESSIBLE FLOW
AID-T-63-110 N64-15246 07-11

TURBULENT WAKE FLOW AT SUPERSONIC SPEED
NASA-CR-55718 N64-15888 07-11

OSCILLATIONS OF TURBULENT FLOW
ATN-64/9231/-1 N64-16097 07-11

INFLUENCE ON REDUCED PRESSURE ON FLAME PROPAGATION AND COMBUSTION ZONE IN TURBULENT FLOW
N64-16231 08-26

STABILITY AND TURBULENT MOTION OF LIQUID FLOWS
FTD-TT-62-1596/1&2&3&4 N64-16402 08-11

HEAT TRANSFER IN TURBULENT FLUID FLOW AT LARGE PRANDTL NUMBERS AND VARIABLE VISCOSITY
FTD-TT-62-1890/1&2&4 N64-16407 08-13

KINETIC ENERGY IN TURBULENT AIR CURRENTS
E-T-G-63-28 N64-16510 08-11

SOLUTION TO HYDRODYNAMIC PROBLEMS ON LAMINAR AND TURBULENT FLOW - FLUID MECHANICS
AD-430718 N64-17472 09-11

TURBULENT SHEAR FLOW OF REAL VISCOELASTIC FLUIDS
NASA-CR-53319 N64-17792 09-11

LUBRICATION WITH TURBULENT FLOW OF VISCOUS FLUID
NTI-63TR40 N64-18045 10-17

SAMPLING TIME EFFECT ON DETERMINING MAXIMUM CONCENTRATIONS OF GAS DIFFUSION IN TURBULENT FLOW
E-T-G-63-25 N64-18661 11-11

PROPULSION, AERODYNAMICS, TURBULENT FLOW, AND COMBUSTION AT HYPERSONIC SPEEDS
N64-18719 11-27

TURBULENT JET FLOWS OF EXHAUSTING CIRCULAR JET IN EDDY
AGARD-450 N64-18720 11-11

CONVECTION VELOCITIES IN TURBULENT SHEAR FLOWS
AGARD-457 N64-18723 11-11

REFLECTION AND REFRACTION IN NONTURBULENT AIR FOR DESIGN OF HIGH PRECISION LASER RADAR SYSTEMS
EE-101 N64-18771 11-23

BOUNDARY LAYERS OF TURBULENT FLOWS AND PLASMA TURBULENCE - SQUID PROJECT
N64-18853 11-24

OPTICAL FIBER DETERMINATION OF SOLID PARTICLE VELOCITY IN TWO-PHASE GAS-SOLIDS IN TURBULENT PIPE FLOW - SQUID PROJECT
PR-107-P N64-19635 12-11

HYDRODYNAMICS OF TURBULENT FLOW OF AIR IN GAP ROTATING COAXIAL CYLINDERS
FTD-TT-63-18/1&2 N64-19741 12-11

MECHANISM OF NOISE GENERATION IN TURBULENT FLOW
AGARD-469 N64-19853 12-23

RESISTANCE TO FLOW THROUGH SMOOTH ECCENTRIC AND CONCENTRIC ANNULI IN TURBULENT FLOW REGIME
ASME PAPER 63-WA-11 N64-19968 12-11

COEFFICIENT OF TURBULENT EXCHANGE IN ATMOSPHERIC BOUNDARY LAYER TO DETERMINE VERTICAL PROFILE AT VARIOUS TEMPERATURE STRATIFICATIONS
N64-20206 13-21

RATES OF CHEMICAL REACTIONS AND DISSIPATION OF CHEMICAL SPECIES IN TURBULENT FLOW FIELDS WITH LARGE INHOMOGENEITIES
BSD-TDR-64-59 N64-20864 14-07

MIXING OF LAMINAR AND TURBULENT AXISYMMETRIC COMPRESSIBLE FLOWS
ARL-63-108 N64-21432 14-11

STATIC AND DYNAMIC PROPERTIES OF JOURNAL BEARINGS IN LAMINAR AND TURBULENT FLOW REGIMES
NASA-CR-54034 N64-21465 14-17

BASE PRESSURE BEHIND TWO-DIMENSIONAL AND AXIALLY SYMMETRIC BACKWARD FACING STEPS IN TURBULENT SUPERSONIC FLOW
TAE-31 N64-21789 15-11

MEAN VELOCITY GRADIENT EFFECTS ON REDISTRIBUTION OF TURBULENT ENERGY IN WEAK SHEAR FLOW
NASA-RP-194 N64-22087 15-11

DELAYING TRANSITION FROM LAMINAR TO TURBULENT FLOW - BIBLIOGRAPHY
AD-427728 N64-22332 15-11

HYDRODYNAMICS AND HEAT TRANSFER OF TURBULENT FLOW OF INCOMPRESSIBLE FLUID IN GAP BETWEEN ROTATING COAXIAL CYLINDERS
FTD-TT-62-1743/1&2&4 N64-22394 15-13

VARIATION IN LENGTH OF COMBUSTION ZONE OF HOMOGENEOUS MIXTURE IN TURBULENT FLOW AS FUNCTION OF PRESSURE
FTD-TT-62-1744/1&2&4 N64-22395 15-26

ACOUSTIC EFFICIENCY TRENDS PRODUCED BY ROCKET TURBULENT EXHAUST FLOW
NASA-TN-D-1999 N64-22747 16-30

MIXING AND SECOND ORDER IRREVERSIBLE CHEMICAL REACTION IN TURBULENT FLOW REACTOR
UCRL-7852 N64-22947 16-23

WALL PRESSURE FLUCTUATIONS UNDER TURBULENT SEPARATED SUPERSONIC FLOW
NASA-CR-56564 N64-23988 16-11

EFFECT OF MASS INJECTION ON HEAT TRANSFER TO SURFACE OF AXISYMMETRIC NOZZLE IN TURBULENT FLOW
ARL-63-103 N64-24932 17-02

PRESSURE GRADIENT EFFECTS ON TURBULENT FLOW NEAR SMOOTH WALL
FLD-14 N64-24992 17-11

VISCOSITY EFFECTS ON ENERGY EQUATION OF FREE TURBULENT FLOW IN FLUID AMPLIFIER OPERATION
N64-25254 17-11

CURVED TURBULENT MIXING FLOW IN FLUID AMPLIFICATION DEVICES N64-25255 17-11

LAMINAR AND TURBULENT HYDROGEN HEAT TRANSFER AND FRICTION COEFFICIENTS OVER PARALLEL TUNGSTEN PLATES 5000 DEG R
NASA TN D-2435 N64-27123 19-13

TURBULENT MOTIONS IN METEOR ZONE USING METHOD OF RADAR LOCATION OF METEOR TRAILS
NASA-TT-F-8924 N64-27133 19-12

GUIDANCE-NAVIGATION SEPARATION THEOREM FOR TRAJECTORY CONTROL SYSTEM
AIAA PAPER-64-653 N64-27754 19-22

HEAT EXCHANGE AND TURBULENT FLOW EFFECTS IN MIXING REGION ON BREAKAWAY CHARACTERISTICS

N64-27980 20-11

EFFECT OF AIR INJECTION THROUGH POROUS SURFACE AND SLOTS ON TURBULENT SKIN FRICTION AT MACH 3
NASA-TN-D-2427 N64-28327 20-11

STRUCTURE OF TURBULENT COMPRESSIBLE FLUID FLOW IN GAS TURBINES N64-28477 20-11

MATHEMATICAL MODEL OF TURBULENT FLOW NEAR BOUNDARY LAYER - VARIATIONS IN VALUES OF KARMAN CONSTANT N64-29532 21-11

TURBULENCE IN AN ARC PLASMA JET USING ELECTRO-MAGNETIC INDUCTION
SSD-TDR-64-122 N64-30112 21-24

ERROR ANALYSIS OF TURBULENT FLUX MEASUREMENTS - EDDY FLUXES OF MOMENTUM, HEAT, AND WATER VAPOR N64-31847 23-15

TRANSITION FROM LAMINAR FLOW TO TURBULENT FLOW IN BOUNDARY LAYER OF WIND TUNNEL MODEL AT HYPERSONIC SPEED
REPT.-64SD855 N64-32141 23-11

TURBULENT FLOW LUBRICATION THEORY FOR COMPOSITE TILTING-PAD JOURNAL BEARINGS
NASA-CR-54195 N64-32352 23-17

TURBULENT FLOW AND HEAT TRANSFER IN INTERACTION OF SUPERSONIC STREAM AND SURFACE PROTUBERANCE
CR-3 N64-32458 23-11

SURFACE PRESSURE AND TURBULENT AIRFLOW IN TRANSVERSE RECTANGULAR NOTCHES
NASA-TN-D-2501 N64-33602 24-11

TURBULENT JET
FLOW DEVELOPMENT & HEAT TRANSFER CHARACTERISTICS OF PLANE TURBULENT IMPINGING JETS N64-11253 02-02

GENERALIZED VISCOUS MULTICOMPONENT-MULTIPHASE FLOW WITH APPLICATION TO LAMINAR & TURBULENT HYDROGEN JETS
AIAA PAPER-63-507 N64-12017 03-11

AERODYNAMIC CHARACTERISTICS OF TWO-DIMENSIONAL TURBULENT COMPRESSIBLE JETS
A-1771-24 N64-13956 05-11

UNIVERSAL EJECTION PROPERTIES OF TURBULENT JETS OF GAS
RSIC-108 N64-15063 07-11

TWO-DIMENSIONAL, TURBULENT WALL JET WITH & WITHOUT EXTERNAL FREE STREAM
AD-406073 N64-15703 07-11

ACOUSTIC RADIATION FROM TURBULENT, SUBSONIC, AND SUPERSONIC JETS
AGARD-448 N64-16293 08-23

EJECTION AND JET MIXING IN TURBULENT GAS JETS
FTD-TT-63-222/1&2&4 N64-17186 09-11

EJECTION PROPERTIES OF TURBULENT GAS JETS N64-17187 09-11

COMPRESSIBILITY EFFECT ON TURBULENT JET MIXING N64-17188 09-11

SPACE-TIME CORRELATION OF U-COMPONENT OF TURBULENCE IN JET MIXING REGION
AGARD-452 N64-18722 11-11

MULTICOMPONENT MULTIPHASE VISCOUS FLOW WITH APPLICATIONS TO LAMINAR AND TURBULENT JETS OF HYDROGEN
NASA-CR-53509 N64-19985 12-11

FLOW OF INCOMPRESSIBLE TURBULENT WALL JETS OVER CURVED BOUNDARIES
REPT.-64-7 N64-22486 15-02

TWO-DIMENSIONAL BLOWING SLOT TO MEASURE DOWNSTREAM CHARACTERISTICS OF TURBULENT WALL JET IN STILL AIR
TN-64-50 N64-25192 17-10

TURBULENT SHEAR IN JET-DRIVEN VORTEX CHAMBERS
ATN-64/9227/-5 N64-33358 24-02

TURBULENT WAKE
EQUILIBRIUM TURBULENT HYPERSONIC WAKE CHARACTERISTICS OF SLENDER CONE WITH DIFFERENT EDDY VISCOSITY COEFFICIENTS
R63SD71 N64-11292 02-02

WIDTH MEASUREMENTS OF TURBULENT INNER WAKE BEHIND 3-INCH DIAMETER ALUMINUM SPHERES AT SUPERSONIC SPEED
CARDE-TR-488/64 N64-15732 07-02

TURBULENT WAKE FLOW AT SUPERSONIC SPEED
NASA-CR-55718 N64-15888 07-11

TURBULENT SCATTERING OF ELECTROMAGNETIC WAVES BY HYPERSONIC WAKE FLOWS
R63SD58 N64-15942 07-23

HYPERSONIC LAMINAR AND TURBULENT VISCOUS WAKE AT CHEMICAL EQUILIBRIUM
R63SD01 N64-17368 09-11

GROWTH OF REGULAR DISTURBANCES IN AXISYMMETRIC LAMINAR AND TURBULENT WAKES OF SPHERICAL AND CYLINDRICAL BODIES
RAD-TM-64-3 N64-17488 09-02

PRESSURE OSCILLATION SPECTRUM MEASUREMENT IN TURBULENT WAKES
AGARD-464 N64-18717 11-11

MEASUREMENTS OF FLUCTUATING STATIC AND STAGNATION POINT PRESSURES IN SUBSONIC TURBULENT WAKES
DTMB-1779 N64-19203 11-11

PRESSURE GRADIENT EFFECTS ON NONEQUILIBRIUM LAMINAR AND TURBULENT FAR WAKE FLOW PROPERTIES
DAMP-TM-63-13 N64-24874 17-11

WIDTH OF TURBULENT INNER WAKE BEHIND THREE INCH DIAMETER SOLID ALUMINUM SPHERE
CARDE-TN-488/64 N64-26068 18-11

TURBULENCE IN BLUNT- AND SLENDER-BODY HYPERSONIC WAKE FLOWS
TR-64-02H N64-32027 23-11

MODEL FOR CALCULATION OF RADAR BACKSCATTER FROM UNDERDENSE HYPERSONIC TURBULENT WAKES
AD-449234 N64-32603 23-11

TURBULENT WAKES IN DENSITY STRATIFIED FLUIDS - MASS AND MOMENTUM TRANSFER IN TWO-DIMENSIONAL WAKES
R64-26 N64-33475 24-11

TURING MACHINE
PROBLEMS IN BOOLEAN ALGEBRA & TURING MACHINES
JPRS-18244 N64-10499 01-21

ARRANGEMENT OF INTERMEDIATE INFORMATION WHEN COMPUTING ON NONERASING TURING MACHINES
JPRS-22608 N64-13298 04-21

TWENTY-FOUR HOUR ORBIT
SUBSATELLITE PATH FOR 24-HOUR ORBITS AFFECTED BY CHANGES IN ECCENTRICITY, INCLINATION, AND ARGUMENT OF PERIGEE - ORBITAL PATH OF SYNCOM II
NASA-TM-X-54564 N64-15864 07-19

TWENTY-FOUR HOUR SATELLITE
$ SYNCHRONOUS SATELLITE

TWILIGHT
FLUORESCENCE OF EARTH ATMOSPHERE DURING TWILIGHT IN OXYGEN LINE AS RESULT OF RESONANCE ABSORPTION OF SOLAR EMISSION LINE N64-21886 15-11

OBSERVING TWILIGHT BURST OF HELIUM EMISSION WITH FABRY-PEROT STANDARD N64-21887 15-11

OBSERVATIONS OF CONTINUUM OF TWILIGHT-SKY EMISSION N64-21888 15-11

OBSERVATION DATA ON SKY LIGHT POLARIZATION AT ZENITH OBTAINED AT VARIOUS MOMENTS OF TWILIGHT

NASA-TT-F-8922 N64-26608 18-12

EXCITATION OF HELIUM EMISSION AT TWILIGHT RELATED TO ALTITUDE AND SOLAR DEPRESSION ANGLE N64-32712 24-12

TWINNING
TWINNING MECHANISM IN SINGLE CRYSTAL DEFORMATION OF A MOLYBDENUM-RHENIUM ALLOY N64-11528 03-25

DISLOCATIONS IN CRYSTALS OF SALTS AND METALS AND THEIR BEHAVIOR DURING STRESS, TWINNING, AND ETCHING
JPRS-22076 N64-12757 04-25

INTERACTION OF DISLOCATIONS DURING TWINNING OF CRYSTALS OF CALCITE AND OF ZINC N64-12761 04-25

TWINNING IN SAPPHIRE RODS DURING COMPRESSION
ATN-64(9236)-16 N64-19242 11-19

GROWTH TWINNING IN BARIUM TITANATE CERAMICS AND SINGLE CRYSTAL INTERACTIONS
AD-434228 N64-22205 15-19

SHAPES OF DEFORMATION TWINS - DISLOCATIONS IN CRYSTAL STRUCTURE
UCRL-11451 N64-23342 16-18

RELATIONSHIP OF TWINNING TO BRITTLE FRACTURE IN REFRACTORY METALS - MOLYBDENUM-RHENIUM ALLOY
ASD-TDR-63-360, PT. II N64-26218 18-18

CALCULATION OF ELECTRON DIFFRACTION PATTERNS FROM TWINNED REGIONS OF CUBIC CRYSTALS
ARPA-E7 N64-27685 19-18

PHASES AND TWINNING IN TERNARY ALUMINUM BOROCARBIDE CRYSTALS
TR-2 N64-29241 21-25

TWIST
SA TORQUE
STRESS CALCULATION FROM DEFORMATION OF PRISMATIC BAR SUBJECTED TO TWISTING N64-28484 20-33

TWISTED WING
AERODYNAMIC CHARACTERISTICS OF AIRCRAFT CONFIGURATIONS WITH HIGHLY SWEPT TWISTED AND CAMBERED ARROW WINGS AT HYPERSONIC SPEEDS N64-20294 13-04

TWO-BODY PROBLEM
ACCELERATION OF CELESTIAL BODY FROM CURVILINEAR MOTION OF CENTER OF GRAVITY OF TWO-BODY SYSTEM
NH-TRANS-419 N64-11627 03-04

TWO-BODY SPACECRAFT GUIDANCE IN CISLUNAR SPACE OF EARTH-MOON TRAJECTORY
NASA-CR-55031 N64-12033 03-29

SOLUTION OF GENERAL PROBLEM ON TRANSLATIONAL-ROTATIONAL MOTION OF SPHEROID ATTRACTED BY SPHERE
NH-TRANS-60 N64-15195 07-29

COMPUTATION OF DERIVATIVES OF COMPOSITE FUNCTIONS, AND FUNCTION OF NEWTONIAN ATTRACTION BETWEEN TWO BODIES
NH-TRANS-326 N64-16191 08-20

EXPRESSION OF FUNCTION OF NEWTONIAN ATTRACTION OF TWO BODIES AS EXPANSION OF SIXFOLD INTEGRAL N64-16194 08-20

CONVERGENCE IN EXPANSION OF FUNCTION OF NEWTONIAN ATTRACTION OF TWO BODIES N64-16195 08-20

INITIAL MEMBERS IN EXPANSION OF FUNCTION OF NEWTONIAN ATTRACTION OF TWO BODIES N64-16197 08-20

EXPANSION OF FUNCTION OF NEWTONIAN ATTRACTION OF TWO BODIES FOR CERTAIN DENSITY DISTRIBUTIONS N64-16198 08-20

EXPANSION OF FUNCTION OF NEWTONIAN ATTRACTION OF TWO BODIES WITH RESPECT TO MOMENTS OF INERTIA FOR NONMAJOR AND NONCENTRAL AXES OF INERTIA N64-16199 08-20

NAVIGATION GUIDANCE MECHANISM & ERROR PROPAGATION EQUATIONS FOR TWO-BODY REFERENCE ORBITS N64-17810 09-29

IBM COMPUTER PROGRAM FOR CALCULATING KINEMATICS OF TWO- AND THREE-BODY PROBLEMS
LNF-64/23 N64-25671 17-23

ANALYTICAL TECHNIQUE FOR COMBINING LINEARIZED TWO-BODY EQUATIONS WITH CALCULUS VARIATIONS TO DETERMINE GUIDANCE LAW FOR OPTIMUM SPACE MANEUVERS
NASA-TM-X-51926 N64-29518 21-29

TWO-DIMENSIONAL BODY
INTERACTION OF PLASMA FLOW WITH MAGNETIC FIELD OF TWO-DIMENSIONAL DIPOLE
NASA-CR-52867 N64-11327 02-24

TWO-DIMENSIONAL TRIANGULAR LATTICE GAS - MONTE CARLO CALCULATIONS IN SUPERCRITICAL REGION N64-12168 03-23

FLUTTER OF TWO-DIMENSIONAL PANELS AT SUPERSONIC SPEEDS
AFOSR-5327 N64-12711 04-33

DYNAMIC RESPONSE OF TWO-DIMENSIONAL STRUCTURES TO IMPULSE LOADING N64-13440 05-23

INVISCID SUPERSONIC FLOW FIELDS AROUND TWO-DIMENSIONAL AND AXISYMMETRIC BODIES AT ZERO ANGLE OF ATTACK
D2-10598 N64-23382 16-11

TWO-DIMENSIONAL HYDRODYNAMIC HOT SPOT FORMED BY SHOCK WAVE INTERACTION WITH SPHERICAL VOID IN NITROMETHANE
LA-3077 N64-23890 16-11

EFFECTS OF SURFACE PERTURBATIONS ON PRESSURE DISTRIBUTIONS ABOUT BLUNT TWO-DIMENSIONAL BODIES AT HYPERSONIC SPEEDS
FDL-TDR-64-17 N64-28549 20-02

TWO-DIMENSIONAL FLOW
TWO-DIMENSIONAL TURBULENT BASE FLOW ANALYSIS - APPROACHING BOUNDARY LAYER EFFECT
ARC-R&M-3344 N64-13361 04-11

SHOCK-TUNNEL MEASUREMENTS OF UNDERSURFACE PRESSURE AND SHOCK ANGLE ON NONWEILER WING COMPARED WITH TWO-DIMENSIONAL FLOW ABOUT WEDGE
ARC-CP-684 N64-13391 04-03

NUMERICAL METHODS FOR CALCULATION OF TWO-DIMENSIONAL TIME DEPENDENT INVISCID FLOWS CONTAINING SHOCKS
NYO-10433 N64-15613 07-11

LINEAR THEORY FOR SEPARATED AND NONSEPARATED TWO-DIMENSIONAL, INCOMPRESSIBLE, IRROTATIONAL FLOW ABOUT LIFTING BODIES
AD-423579 N64-16466 08-02

TWO-DIMENSIONAL SEPARATED OR CAVITATING FLOW PAST FLAT PLATE NORMAL TO STREAM
ARC-CP-697 N64-18325 10-11

SHOCK WAVES IN TWO-DIMENSIONAL MAGNETOHYDRODYNAMIC FLOW OF INVISCID, COMPRESSIBLE GAS
MF-38 N64-19300 12-24

HIGH SPEED TWO-DIMENSIONAL REACTING LAMINAR BOUNDARY LAYER WITH COUPLED PRESSURE INTERACTION
NASA-CR-53631 N64-19989 12-11

HYDRODYNAMIC STABILITY OF TWO-DIMENSIONAL UNSTEADY INCOMPRESSIBLE LAMINAR BOUNDARY LAYER
AD-600102 N64-21363 14-11

BASE PRESSURE BEHIND TWO-DIMENSIONAL AND AXIALLY SYMMETRIC BACKWARD FACING STEPS IN TURBULENT SUPERSONIC FLOW
TAE-31 N64-21789 15-11

TWO-DIMENSIONAL BASE FLOW AT SUBSONIC AND TRANSONIC SPEEDS

NPL-AERO-1070 N64-24955 17-11

TWO DIMENSIONAL ELECTROMAGNETIC FIELDS GUIDED BY PLASMA LAYERS N64-27161 19-24

NUMERICAL SOLUTION FOR TWO- AND THREE-DIMENSIONAL FLOW OF NONEQUILIBRIUM GAS
AFOSR-64-1055 N64-30008 21-11

IMMERSED PROFILES IN TWO-DIMENSIONAL VISCOUS FLOW NEAR FREE SURFACE WITH SUPERIMPOSED LOAD DISTRIBUTION
AD-296991 N64-30070 21-11

TWO-DIMENSIONAL DOUGLAS NEUMANN PROGRAM TO HANDLE LIFTING, INFINITE CASCADES
LB-31653 N64-30964 22-03

TWO-DIMENSIONAL CASCADE FLOW MAPPING FOR BLADE OSCILLATION IN AXIAL FLOW COMPRESSORS
FTR-1/23 N64-31141 22-02

TWO-DIMENSIONAL FLOW THEORY THROUGH ARBITRARY PROFILE BEND
REPT.-147 N64-31436 23-11

ANALYSIS OF TWO-DIMENSIONAL SUPERCAVITATING FLAT PLATE OSCILLATING UNDER FREE SURFACE BY LINEAR ACCELERATION POTENTIAL
AD-603160 N64-31830 23-03

TWO-ELECTRON SYSTEM
COMPARISON OF HARTREE-FOCK ORBITAL WITH FIRST NATURAL SPIN ORBITAL FOR TWO-ELECTRON SYSTEM
NASA-CR-56669 N64-27386 19-23

TWO-FLUID MODEL
TWO-FLUID MODEL FOR THE TRANSITION REGIME IN HYPERSONIC RAREFIED GAS DYNAMICS
AD-424157 N64-12272 03-11

TWO-PHASE FLOW
CRITICAL TWO-PHASE FLOW OF STEAM-WATER MIXTURES WITH APPLICATION TO LIQUID-VAPOR METAL SYSTEMS IN PIPES
ANL-6779 N64-13292 04-11

FUNDAMENTAL INVESTIGATION OF NONSTEADY AND NONEQUILIBRIUM FLOW - TWO-PHASE FLOW IN SQUID PROJECT N64-13477 05-24

ELECTRIC PHENOMENA PROPERTIES OF TWO-PHASE FLOW - SQUID PROJECT N64-13481 05-24

SEPARATION REFERENCES FOR VARIOUS TYPES OF TWO-PHASE GAS-LIQUID FLOW
DSR-8734-1 N64-14032 05-11

OSCILLATORY INSTABILITIES OF EVAPORATION IN TWO PARALLEL HEATED CHANNELS
AERE-M-1105 N64-15391 07-11

ANNULAR SLUG FLOW REGIME INVESTIGATED IN VERTICAL UPFLOW WITHOUT HEATING BY USING ELECTRICAL CONDUCTIVITY PROBE
ANL-6796 N64-18510 10-13

NONSTEADY AND NONEQUILIBRIUM TWO-PHASE FLOWS - SQUID PROJECT N64-18852 11-11

INTERACTION OF SOLID PARTICLES WITH IONIZED GAS, CHARGE ACQUISITION, AND DYNAMICS OF TWO-PHASE FLOW - SQUID PROJECT N64-18857 11-24

TWO-PHASE FLOW PARAMETERS FOR SODIUM SYSTEMS
PS-186 N64-18994 11-11

NONADJUSTED RELAY FOR CODING AND COMMUNICATIONS SYSTEMS N64-19535 12-09

BINARY LIQUID METAL BOILING HEAT TRANSFER AND TWO-PHASE FLOW AND THERMOPHYSICAL PROPERTIES OF POTASSIUM AND MERCURY AMALGAM
REPT.-3549 N64-21058 14-06

DYNAMICS OF TWO-PHASE FLOW IN ROCKET NOZZLES
UTC-2005-QT11 N64-21983 15-11

EFFECT OF MAGNETIC FIELD ON TWO-PHASE FLOW OF SODIUM-POTASSIUM ALLOY AND NITROGEN IN RECTANGULAR CHANNEL
ANL-6854 N64-23284 16-24

MATHEMATICAL ANALYSIS OF NONSTEADY FLOW - SQUID PROJECT
CAL-88-P N64-25799 17-11

TWO-PHASE HEAT TRANSFER & FLUID FLOW DATA FOR SODIUM & POTASSIUM UNDER BOILING & CONDENSING CONDITIONS
NASA-CR-54038 N64-25905 18-13

TWO-PHASE HEAT TRANSFER IN SODIUM AND POTASSIUM BOILING AND CONDENSING
NASA-CR-54037, VOL. 1 N64-26580 18-13

INTERNATIONAL COOPERATION ON TEST EQUIPMENT, INSTRUMENTATION, POWER SUPPLY, AND ANALYSIS FOR PROGRAM ON TWO-PHASE FLOW
GEAP-4367 N64-29622 21-11

CHOKING TWO-PHASE FLOW AND IDEALIZED SOLUTIONS FOR HYDROGEN, NITROGEN, OXYGEN, AND FREON
NBS-TN-179 N64-32071 23-11

INSTABILITY EFFECT ON TWO-PHASE HEAT TRANSFER FOR SUBCOOLED WATER FLOWING IN ZERO GRAVITY ENVIRONMENT
NASA-TN-D-2259 N64-33083 24-13

FORTRAN COMPUTER PROGRAM FOR DATA REDUCTION OF PHOTOGRAPHS OF TWO-PHASE FLOW PHENOMENA
WAPD-TM-462 N64-33474 24-20

TWO-PHASE FLOW IN HORIZONTAL CAPILLARY TUBES
TR-8581-24 N64-33980 24-11

TWO PHASE SYSTEM
EFFECT OF INTERFACIAL BONDING ON STRENGTH OF TWO-PHASE SYSTEM CONSISTING OF TUNGSTEN IN GLASSY MATRIX
UCRL-11011 N64-11583 03-19

SUBCOOLED OR SATURATED TWO-PHASE ONE-COMPONENT FLOW IN VERTICAL GLASS TUBE WITH HEAT TRANSFER
REPT.-8973-1 N64-12965 04-13

BIBLIOGRAPHY ON TWO-PHASE GAS-LIQUID SYSTEMS - HEAT TRANSFER AND HYDRAULICS
ANL-6734 N64-15799 07-13

ANALYSIS OF TWO-PHASE SYSTEM OF HIGH STRENGTH NICKEL-CHROMIUM ALLOY
FTD-TT-63-479/1 N64-16423 08-18

TWO-PHASE DECOMPOSITION OF SOLID SOLUTIONS N64-16605 08-25

CORROSION IN TWO PHASE LIQUID METAL SYSTEMS N64-20797 14-13

THERMAL STRESS IN TWO-PHASE ALUMINUM-SILICON ALLOYS
TR-5 N64-28458 20-13

PREDICTING TWO-PHASE SERVOMOTOR CHARACTERISTICS BY COMPUTER N64-31488 23-17

ATTENUATION OF ACOUSTIC WAVES IN TWO-PHASE MEDIUM
ABL/X-96 N64-32413 23-23

TWO PHASE GAS-LIQUID FLOW OSCILLATIONS, INSTABILITIES, AND EXCURSIONS
DSR-8734-5 N64-33888 24-11

TWO-STAGE PLASMA ENGINE
OPERATING CHARACTERISTICS OF REPETITIVELY PULSED TWO-STAGE COAXIAL PLASMA PROPULSION ENGINE
NASA-CR-54064 N64-31453 23-17

TWO-STAGE ROCKET
PROJECT HYDRA-IRIS - TWO-STAGE ROCKET
NOTS-TP-3391 N64-21589 15-04

TX-354 ROCKET ENGINE
STATIC TESTING OF TX-354 MOTOR FOR CASTOR II PROGRAM
RT-TN-64-37 N64-32288 23-17

T64 GAS TURBINE ENGINE
S GAS TURBINE

U

U.S.S.R.
MAGNETIC VARIATIONS IN RUSSIAN ARCTIC AND REGIONAL GEOLOGY OF UST-YENISEY DEPRESSION
JPRS-21348 N64-10296 01-12

KAZAKHSTAN ORES AS POSSIBLE SOURCES OF VANADIUM METAL, ALLOYS, AND COMPOUNDS, AND APPROPRIATE ORE PROCESSING METHODS
JPRS-21973 N64-10330 01-18

SOVIET GEOPHYSICAL RESEARCH PAPERS ON GRAVITY VARIATIONS, EARTH CRUST STUDY, AND PLANETARY GEOPHYSICS
JPRS-21967 N64-10384 01-12

GEOPHYSICAL EXPLORATIONS IN USSR - GRAVIMETRIC SURVEYS
JPRS-17412 N64-10474 01-12

SEISMIC DIFFERENCES BETWEEN MONGOLIAN AND SOVIET ALTAY
JPRS-17612 N64-10483 01-12

GEOLOGICAL SCIENCES IN USSR
JPRS-17983 N64-10493 01-12

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JPRS-19016 N64-10507 01-01

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JPRS-18401 N64-10760 02-01

MAGNETOTELLURIC SOUNDING AND OTHER GEOPHYSICAL EXPLORATION N64-10761 02-12

SCIENTIFIC RESEARCH AND ITS PRACTICAL APPLICATION
JPRS-22398 N64-11922 03-01

AEROMAGNETIC ANOMALIES OF POROSOZERO SUITE IN KARELO-FINNISH SSR & IN USSR - GEOPHYSICS N64-14612 06-12

BIBLIOGRAPHY OF USSR LITERATURE ON RADIO ASTRONOMY ANTENNAS AND RADIO ASTRONOMY DATA PROCESSING
AID-B-64-11 N64-16779 08-05

SOVIET SCIENCE & TECHNOLOGY - LITERATURE SURVEY
AID-P-63-2 N64-16994 09-01

ELECTRON BEAM WELDING IN USSR
JPRS-25171 N64-22798 16-09

SOVIET DEVELOPMENTS IN ASTROPHYSICS AND GEOPHYSICS OF UPPER ATMOSPHERE
AID-P-64-19 N64-23330 16-12

ULTRALOW DRAIN LOCAL OSCILLATORS AND MIXERS - ELECTRONIC EQUIPMENT
USAELRDL-TR-2438 N64-24216 16-09

CLIMATE OF USSR N64-24413 17-21

JET STREAM OVER USSR
RR-TR-64-2 N64-25215 17-12

TEMPERATURE FIELD IN UPPER ATMOSPHERIC LAYERS OVER USSR
RR-TR-64-3 N64-25216 17-12

ZINC, COPPER, COBALT, AND MOLYBDENUM IN SOILS OF EUROPEAN PART OF USSR
JPRS-26040 N64-28350 20-07

GEOGRAPHICAL & CLIMATIC FACTORS IN RIVER REGIMES IN USSR - ATMOSPHERIC WATER VAPOR AND CONDENSATION, EVAPORATION, TEMPERATURE OF RIVER WATER, AND ICE FORMATION
JPRS-26519 N64-31079 22-12

MORPHOLOGY OF DISCONTINUITIES BENEATH USSR FROM DEEP SEISMOMETRIC SOUNDING
JPRS-26802 N64-31312 22-12

CLIMATOLOGY OF CAUCASIAN USSR
FTD-MT-63-336 N64-32244 23-12

METEOROLOGICAL INSTRUMENT DEVELOPMENT AND AUTOMATION IN USSR N64-32329 23-21

TRAINING OF SCIENTISTS IN USSR
JPRS-27116 N64-33855 24-14

U.S.S.R. SPACE PROGRAM
SIGNIFICANCE OF USSR ASTRONAUTS ORBITING EARTH N64-16352 08-32

USSR SPACE PROGRAM - SPACEFLIGHT & SPACE SCIENCE
JPRS-25705 N64-26250 18-29

HISTORY OF ROCKET ENGINE DEVELOPMENT IN U.S.S.R. FROM 1932 TO 1942
FTD-TT-63-612/1&2 N64-29026 21-27

RUSSIAN SPACE ACHIEVEMENTS AND FUTURE INTERPLANETARY FLIGHTS
FTD-TT-63-210/1&2 N64-32398 23-32

SPACE EXPLORATION, USA AND USSR SPACE PROGRAMS, MILITARY APPLICATIONS, AND INTERNATIONAL LAW AND COOPERATION
AD-602915 N64-33342 24-01

UH- 1 HELICOPTER
FLIGHT TEST OF UH-1E HELICOPTER
REPT.-204-099-171 N64-21993 15-04

UK-C
ELECTRONIC PERFORMANCE CHARACTERISTICS OF S-52 PROTOTYPE SPACECRAFT IN THERMAL VACUUM
NASA-TM-X-55039 N64-28929 20-32

ULCER
CF GASTROINTESTINAL SYSTEM
INDUCED SLEEP FOR CURE OF CHRONIC INSOMNIA, BRONCHIAL ASTHMA, ULCERS, AND HYPERTENSION
JPRS-18021 N64-11621 03-16

ULTRAHIGH FREQUENCY
DIRECTIONAL SCATTERING OF ULTRAHIGH FREQUENCY RADIO SIGNALS BY METEOR TRAILS
JPRS-17555 N64-10563 01-05

STRESS JUNCTION OF QUARTZ METAL TO PRODUCE WAVEGUIDE WINDOWS FOR ULTRAHIGH FREQUENCY DEVICES
JPRS-17936 N64-10569 01-09

DETERMINATION OF ATMOSPHERIC REFRACTIVE INDEX FOR ULTRAHIGH FREQUENCY RADIO WAVES USING AEROLOGICAL PROBES
JPRS-22198 N64-11418 02-12

ULTRAHIGH FREQUENCY ELECTROMAGNETIC WAVE EXPOSURE PROBLEM ABOARD MERCHANT SHIPS DUE TO RADAR STATION N64-11857 03-08

WORKING CONDITION EVALUATION & HEALTH STATUS OF PERSONNEL DEALING WITH ULTRAHIGH FREQUENCY ELECTRIC CURRENTS N64-11858 03-16

THEORETICAL PROBLEMS IN OPERATION OF PHASEMETER ON ULTRAHIGH FREQUENCIES
RSIC-98 N64-12022 03-09

MEASUREMENT CAPABILITY OF UHF RADAR AT WALLOPS ISLAND
TECH. REPT.-305 N64-13996 05-10

PROPAGATION CHARACTERISTICS FOR AIR-GROUND WAVES IN 800-MC/S RANGE - EFFECT OF FLIGHT PATTERN
ESD-TDR-63-422 N64-15701 07-08

TESTING OF ULTRAHIGH FREQUENCY TRANSMITTER FOR LOW LEVEL APPLICATIONS N64-18088 10-08

APPLICATION OF BACKFIRE PRINCIPLE TO ENDFIRE ANTENNAS FOR SHF, UHF, AND VHF BANDS
AFCRL-63-114 N64-18386 10-09

ULTRAHIGH FREQUENCY THREE-PORT FERRITE DUPLEXER
AD-436028 N64-18845 11-09

INEXPENSIVE CIRCUITED ULTRAHIGH FREQUENCY BROADBAND AMPLIFIER CHAIN

RADC-TDR-64-87 N64-19234 11-09

ULTRAHIGH FREQUENCY RADIOMETER FOR PLASMA NOISE MEASUREMENTS
ACF-AR-1678 N64-20184 13-15

UHF AND VHF ANTENNA BEAM PATTERN STUDY
REPT.-5549-7-P N64-20571 13-09

HIGH GAIN ANTENNA ARRAY FOR COHERENT TRANSMISSION AT ULTRAHIGH FREQUENCIES
REPT.-1072-7 N64-21074 14-09

QUASI-DOPPLER TECHNIQUE FOR ACCURATE MEASUREMENTS OF RADAR CROSS SECTIONS IN ULTRAHIGH FREQUENCY BAND N64-24299 17-08

ULTRAHIGH FREQUENCY REFLECTION MEASUREMENT N64-24748 17-08

AIRBORNE ULTRAHIGH FREQUENCY TRANSMITTER FOR FALLING SPHERE EXPERIMENT
AFCRL-63-922 N64-25730 17-09

SCATTERING OF SUPERHIGH FREQUENCY RADIO WAVES BY HAIL AND WET SNOW
NASA-CR-56940 N64-25763 17-08

NANOSECOND PULSES OF ULTRAHIGH FREQUENCY OSCILLATION
FTD-TT-64-472/1&2 N64-26125 18-09

IMAGE CONVERTER TUBE USING ULTRAHIGH FREQUENCY SOUND - ACOUSTIC EQUIVALENT OF TELEVISION CAMERA
AERE-R-4356 N64-27047 19-15

IBM 7090 DIGITAL COMPUTER SIMULATION OF RADIATION PATTERNS OF ULTRAHIGH FREQUENCY ANTENNA ARRAYS ABOVE FINITELY-CONDUCTING PLANE SURFACES
GE/EE/63-16 N64-32100 23-08

ULTRAHIGH VACUUM
INSTRUMENT FOR MEASURING FORCE NECESSARY TO SEPARATE SMALL METAL SPECIMENS CLEANED & JOINED IN ULTRAHIGH VACUUM
NASA-CR-52990 N64-12032 03-23

DIFFERENCE IN PRESSURE MEASUREMENTS OF HIGH AND LOW CONDUCTANCE ION GAUGES IN ULTRAHIGH VACUUM SYSTEM
MATT-212 N64-12063 03-15

ULTRAHIGH-VACUUM GAS INLET VALVE IN PRODUCTION OF NONSTATIONARY PRESSURE DISTRIBUTIONS IN THE C-STELLARATOR
MATT-225 N64-12090 03-06

OMEGATRON VERSUS SECTOR-TYPE MASS SPECTROMETER FOR RESIDUAL GAS STUDIES IN ULTRAHIGH VACUUM
AFCRL-63-386 N64-12284 03-15

EXPOSURE OF MICROORGANISMS UNDER ULTRAHIGH VACUUM TO EXTREME TEMPERATURES
NASA-CR-55288 N64-15181 07-16

ULTRAHIGH VACUUM SYSTEM FOR PREPARING CLEAN METAL SURFACES AND MEASURING OPTICAL CONSTANTS
NASA-CR-55515 N64-15388 07-23

HIGH TEMPERATURE SORPTION OF OXYGEN AND NITROGEN BY NIOBIUM IN ULTRAHIGH VACUUM
TID-19489 N64-16069 07-18

ULTRAHIGH VACUUM RESEARCH AND PLASMA OSCILLATION STUDIES
FTD-TT-63-88/1&2 N64-17179 09-23

VACATING EFFECT OF METALLIC CHROMIUM DISPERSED BY ELECTRON BOMBARDMENT IN HIGH VACUUM N64-17180 09-23

KINETICS OF ADSORPTION OF COMPONENTS OF RESIDUAL GASES IN ULTRAHIGH VACUUM SYSTEMS - INVESTIGATION BY FLASH METHOD WITH MASS SPECTROMETRY N64-17181 09-23

ULTRAHIGH VACUUM TECHNOLOGY N64-17558 09-23

PROPERTIES OF HELIUM DIFFUSION FILL DEVICE AND APPLICATION IN ULTRAHIGH VACUUM SYSTEMS
USAELRDL-TR-2420 N64-18367 10-23

ULTRAHIGH VACUUM SPUTTERED THIN FILMS
AFCRL-64-360 N64-21725 15-25

ULTRAHIGH VACUUM VALVE
PDN-12077A N64-26103 18-10

DESIGN ANALYSIS FOR ULTRAHIGH VACUUM SYSTEM OBTAINED BY CRYOGENIC PUMPING N64-28209 20-10

PROCEDURE FOR USING LIQUID-METAL SEAL IN ULTRAHIGH VACUUM SYSTEM N64-28210 20-17

ULTRAHIGH VACUUM APPARATUS TO MEASURE ELECTRICAL PROPERTIES OF THIN FERROMAGNETIC LAYERS
FTD-TT-64-347/1&2 N64-31108 22-25

ULTRAHIGH VACUUM DEPOSITION OF HIGH PURITY THIN EPITAXIAL FILM
BMPR-4 N64-32097 23-17

ULTRAHIGH VACUUM ADHESION OF SILICATES AS RELATED TO LUNAR SURFACE
NASA-CR-59364 N64-33812 24-17

ULTRAPURE METAL
SOLUBILITY AND DIFFUSION OF ULTRAPURE TRANSITION ELEMENTS IN ULTRAPURE ALKALI METALS
NASA-CR-54094 N64-28087 20-18

ULTRASONIC AGITATION
ULTRASONIC CONVECTIVE COOLING
RADC-TDR-64-179 N64-25238 17-13

ULTRASONIC INSPECTION
ACOUSTIC PARAMETERS & ULTRASONIC VISUALIZATION OF ORGANS & TISSUES OF MAN & ANIMALS
JPRS-22840 N64-13350 04-16

RADIATION EFFECT ON NITROUS OXIDE-HYDROGEN REACTION AND ULTRASONIC INSPECTION OF SHEET STEEL N64-19264 11-01

ULTRASONIC INSPECTION OF STRUCTURAL FLAWS IN SHEET STEEL N64-19266 11-17

ULTRASONIC INSPECTION OF MMS-184 TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY SHEET FOR DISCONTINUITY DEFECTS
A746 N64-22588 15-17

ULTRASONIC INSPECTION METHODS FOR COMPRESSOR BLADE OF TURBOJET ENGINE - FLAW DETECTION
AD-436289 N64-23649 16-02

ULTRASONICS FOR SOFT TISSUE AND ORGAN STUDY - DIAGNOSIS OF PATHOLOGICAL PROCESSES N64-30238 22-18

ULTRASONIC TEST METHOD AND EQUIPMENT FOR THIN WALL TUBING - ZIRCALOY SHEATH TUBING
HW-81957 N64-30801 22-17

IMPROVED ULTRASONIC BOND INSPECTION EQUIPMENT
AMRA-TR-63-16 N64-31184 22-17

ULTRASONIC LIGHT MODULATOR /ULM/
ULTRASONIC LIGHT MODULATOR TO INTRODUCE ACTIVE SIGNAL INTO LIGHT BEAM FOR COMPUTING PURPOSES
REPT.-2900-444-R N64-28113 20-15

ULTRASONIC MACHINING
APPLICATION OF ULTRASONIC WAVE ENERGY TO ROLLING OF SHEET METAL
BPR-2 N64-29870 21-18

ULTRASONIC RADIATION
MORPHOLGICAL CHANGES IN INTERNAL ORGANS AND SKIN FROM LOCAL ULTRASONIC IRRADIATION
JPRS-21776 N64-10207 01-18

BIOLOGICAL ACTIVITIES OF INSULIN UNDER ULTRASONIC TREATMENT N64-10798 02-18

INFLUENCE OF ULTRASONIC RADIATION ON PHYSICAL PROPERTIES OF METALS - ALUMINUM CYLINDER TEST SAMPLE

FTD-MT-63-161 N64-18687 11-17

METACHROMATIC REACTION OF NUCLEIC ACIDS, DNA AND RNA, PRODUCED BY ULTRASONIC RADIATION
JPRS-24353 N64-18978 11-16

ULTRASONIC RADIATION EFFECTS ON DEFORMATION CHARACTERISTICS OF METALS
IR-4 N64-27348 19-18

NONDESTRUCTIVE TESTING OF SPOT WELDS BY ULTRASONIC RADIATION PENETRATION
RSIC-263 N64-31822 23-17

FEASIBILITY OF APPLICATION OF ULTRASONIC RADIATION TO SHEET METAL ROLLING PROCESS
BMPR-3 N64-32978 24-17

ULTRASONIC SPEED
$ HYPERSONIC SPEED

ULTRASONIC TESTING
NONDESTRUCTIVE ULTRASONIC TESTING AND INSPECTION OF FLAWS IN MATERIALS
ASD-TD-61-205, PT. 2 N64-14319 06-17

EDDY CURRENT AND ULTRASONIC TESTING OF ZIRCALOY-2, ZIRCONIUM ROD STOCK, AND STAINLESS STEEL
ANL-6632 N64-14389 06-18

USING SURFACE WAVES FOR ULTRASONIC NONDESTRUCTIVE TESTING OF METALS
HW-79928 N64-18249 10-23

SHOCK TUBE SPECTROSCOPIC, ULTRASONIC, AND ELECTRONIC EQUIPMENTS
AFCRL-64-154 N64-18594 11-10

ULTRASONIC TESTING & INSPECTION OF CONCRETE FOR QUALITY AND DURABILITY
FTD-MT-63-129 N64-18679 11-23

ULTRASONIC TESTING OF FILAMENT WOUND REINFORCED RESIN GLASS STRUCTURES
ML-TDR-64-117 N64-26228 18-33

ULTRASONIC WAVE
CHEMICAL & BIOLOGICAL ACTION OF ULTRASONIC WAVES
JPRS-21-590 N64-10198 01-16

PROPAGATION OF ULTRASONIC WAVES IN BLOOD OF DOGS - DYNAMICS OF ACUTE RADIATION SICKNESS
JPRS-21775 N64-10206 01-16

EFFECT OF ULTRASONIC WAVE ON DURABILITY AND PLASTICITY OF BRASS
FTD-TT-63-897/1&2 N64-12851 04-18

EFFECTS OF WAVE ULTRASONIC PROPAGATION IN LIQUID-LIQUID INTERFACES ON ATTENUATION AND BOUNDARY WAVES
HW-78701 N64-17701 09-23

ULTRASONIC WAVE PROPAGATION AND INTERACTION IN SOLID MATERIALS
ML-TDR-64-21, PT. 1 N64-18048 10-23

FLOW DISTORTION OF ULTRASONIC WAVES OF FINITE AMPLITUDE IN SOLIDS
FTD-MT-63-13/1&2&3&4 N64-18745 11-23

ULTRASONIC WAVE & MICROWAVE RADIO COMMUNICATION TRANSMITTER SITE SELECTED BY LIGHT ILLUMINATION AND DIFFRACTION ON EARTH SHAPE
FTD-TT-64-30/1&2 N64-22158 15-08

PROPAGATION VELOCITY OF ULTRASONIC WAVES IN IRON AND CAST IRON AND SEVERAL DIELECTRIC MATERIALS
FTD-TT-64-120/1&4 N64-25463 17-23

ULTRASONIC WAVES FOR INTERNAL STRESS MEASUREMENT IN METAL STRUCTURES
AD-438449 N64-25839 18-33

ULTRASONIC WAVES AND MOLECULAR BIOPHYSICS
JPRS-25651 N64-26086 18-16

THIN WALL TUBING TESTS USING ULTRASONIC SHEAR WAVES - THEORY OF ULTRASONIC WAVE PROPAGATION, EXPERIMENTAL DATA, AND NOTCH FABRICATION
HW-81956 N64-27142 19-17

ABSORPTION OF ULTRASONIC WAVES IN LITHIUM FLUORIDE CRYSTALS
NASA-CR-58584 N64-29008 20-25

DIGITAL COMPUTER METHOD FOR INVESTIGATING LIGHT DIFFRACTION BY ULTRASONIC WAVES
REPT.-6-74-64-35 N64-32307 23-23

PROPAGATION OF ULTRASONIC STRESS WAVES IN STRUCTURAL METALS
NOTS-TP-3622 N64-33585 24-18

ULTRASONIC WAVE TRANSDUCER
ULTRASONIC TRANSDUCER FOR NONDESTRUCTIVE INSPECTION OF RESISTANCE SPOT WELDS DURING FORMATION
R-1729 N64-32929 24-17

ULTRASONIC WELDING
ULTRASONIC WELDING EQUIPMENT FOR REFRACTORY METALS - CERAMIC TRANSDUCER AND COUPLING SYSTEMS
ASD-TR-7-888/VI/ N64-12647 04-18

ULTRASONIC WELDING OF BERYLLIUM FOIL TO STAINLESS STEEL
NASA-TN-X-935 N64-12956 04-17

ULTRASONIC WELDING OF REFRACTORY METALS AND ALLOYS
BMPR-6 N64-13592 05-18

ULTRASONIC WELDING EQUIPMENT WITH 25-KILOWATT POWER SOURCE FOR REFRACTORY METALS
ASD-TR-7-888/4/ N64-13833 05-17

ULTRASONIC WELDING REFRACTORY METALS AND ALLOYS WITH POWER-FORCE PROGRAMMING
AD-427997 N64-14811 06-17

ULTRASONIC WELDING EQUIPMENT FOR REFRACTORY METALS
ASD-TR-7-888/7/ N64-16340 08-17

ULTRASONIC SPOT WELDING OF ALUMINUM ALLOY SHEET
A461 N64-16781 08-17

THEORY FOR ULTRASONIC WELDING OF PLASTICS
FTD-TT-63-359/1&2&4 N64-19198 11-17

ULTRASONIC WELDING OF ALUMINUM ALLOY SHEET AND CAPSULES FOR HERMETIC SEALING
RR-61-99 N64-22551 15-17

ULTRASONIC WELDING PROCESS AND EQUIPMENT FOR CONSTRUCTION OF ELECTRON TUBE MOUNTS
QPR-3 N64-26824 18-17

ULTRASONIC WELDED WIRE SHOCK AND VIBRATION TESTING FOR ELECTRON TUBE MOUNTING
AD-425235 N64-32096 23-17

ULTRASONICS
ULTRASONIC METHOD OF PRODUCING CHIP BREAKERS ON CERAMIC OR HARD-ALLOY BLADES OF CUTTING TOOL
FTD-TT-62-1266/1&2&4 N64-10247 01-09

ULTRASONIC DEVICE FOR REMOVAL OF DENTAL CALCULUS
JPRS-21998 N64-10390 01-16

ELECTRICAL STIMULATION AS THERAPEUTIC APPARATUS FOR ULTRASONIC PHYSIOTHERAPY
JPRS-22280 N64-11871 03-16

EFFECTS OF ULTRASONIC TREATMENT ON TEMPERATURE, TENSILE STRENGTH, AND PLASTICITY OF BRASS
FTD-TT-63-898/1&2 N64-12841 04-18

ULTRASONIC TREATMENT OF METAL PARTS TO IMPROVE MECHANICAL PROPERTIES
FTD-TT-63-1001/1 N64-12861 04-17

ULTRASONIC ENERGY APPLICATION TO METAL FORMING AND CUTTING OPERATIONS
DMIC-187 N64-13598 05-17

CRYOGENIC TEMPERATURE & ULTRASONIC VIBRATION EFFECT ON ACTOMYOSIN N64-13693 05-16

PHOTOELASTIC STRESS MEASUREMENT OF ULTRASONIC ECHO PATTERNS IN CIRCULAR GLASS PLATES OF VARIOUS SIZES AND SHAPES
WAL-TR-143.5/2 N64-13725 05-23

EFFECTS OF ULTRASONICS ON METAL DEFORMATION CHARACTERISTICS
AD-425846 N64-13853 05-18

ULTRASONICS IN CHEMICAL REACTIONS, ULTRASONIC TRANSDUCER PRODUCTION, AND CONTROL BY ULTRASONICS
FTD-MT-63-106/1&3&4 N64-14385 06-23

ULTRASONIC MEASUREMENT - BIBLIOGRAPHY OF AMERICAN AND BRITISH PERIODICAL ARTICLES, 1953-1962
SID-63-168 N64-14422 06-23

PROPAGATION OF ULTRASONIC ELASTIC WAVES IN SOLID BODIES AND IN GRANULAR MEDIA
AFCRL-63-932 N64-15723 07-23

FEASIBILITY OF USING ULTRASONIC TECHNIQUES TO MEASURE MECHANICAL PROPERTIES OF CAST POLYURETHANE
ASD-TDR-62-886 N64-17116 09-26

ULTRASONIC LIGHT SCANNING AND ACTIVE OPTICAL IMAGING SYSTEM
C930080-6 N64-20393 13-25

ULTRASONIC ATTENUATION IN SUPERCONDUCTING LEAD
N64-20694 13-25

MISSILE FAILURE DUE TO IMPURITIES IN ELECTROPLATED COMPONENTS - VACUUM ULTRASONIC TREATMENT TO INCREASE RELIABILITY N64-20994 14-30

ULTRASONIC ENERGY APPLIED TO ROLLING PROCESS FOR SHEET METALS
AD-438937 N64-21574 15-17

INFRARED ABSORPTION AND DISPERSION, ULTRASONICS, AND MOLECULAR STRUCTURE STUDIES
AFCRL-64-368 N64-22268 15-07

EFFECTS OF ULTRASONICS ON DEFORMATION CHARACTERISTICS OF METALS
AD-600383 N64-22334 15-18

SOLID STATE PHYSICS & ULTRASONIC PROPERTIES OF MICROWAVE DELAY LINES
RADC-TDR-64-22 N64-24181 16-09

ULTRASONIC CONVECTIVE COOLING
RADC-TDR-64-179 N64-25238 17-13

ERRORS IN ULTRASONIC SOUND PROPAGATION PARAMETER MEASUREMENTS
NRL-6026 N64-25498 17-23

IMAGE CONVERTER TUBE USING ULTRAHIGH FREQUENCY SOUND - ACOUSTIC EQUIVALENT OF TELEVISION CAMERA
AERE-R-4356 N64-27047 19-15

ULTRASONIC WELDING EQUIPMENT FOR JOINING REFRACTORY METALS AND SUPERALLOYS
RR-64-53 N64-29298 21-17

MEMORY STORAGE UNIT WITH TIME COMPRESSION OF SIGNAL AND RECIRCULATOR USING ULTRASONIC DELAY LINE N64-29458 21-09

ULTRASONIC LIGHT SCANNING EMPLOYING CRYSTAL QUARTZ DEFLECTION CELL AND ACTIVE OPTICAL IMAGING SYSTEM
B930080-3 N64-31924 23-23

STIMULATING EFFECT OF HIGH FREQUENCY ULTRASONICS ON YEAST CELL REPRODUCTION N64-32955 24-16

ULTRAVIOLET
ULTRAVIOLET FLUORESCENCE MICROSCOPE
FTD-TT-63-1178/1&2&4 N64-25457 17-23

FORMATION OF THIN DIELECTRIC FILM BY ULTRAVIOLET PHOTOLYSIS
RC-946 N64-25664 17-09

PLANETARY AND LUNAR PHOTOGRAPHY IN INFRARED, VISIBLE, AND ULTRAVIOLET
FR-7 N64-29577 21-05

ULTRAVIOLET LIGHT
ULTRAVIOLET SYNTHESIS OF ADENOSINE TRIPHOSPHATE UNDER POSSIBLE PRIMITIVE EARTH CONDITIONS
NASA-CR-52132 N64-10092 01-12

ULTRAVIOLET AURORA WITH NORTH-SOUTH ASYMMETRY AND STELLAR SPECTRA TAKEN FROM AEROBEE ROCKET FLIGHT
NASA-RP-71 N64-10469 01-05

EARLY ONSET OF THIAMINELESS DEATH IN BACTERIAL STRAINS AFTER EXPOSURE TO ULTRAVIOLET LIGHT
PN-6117 N64-13204 04-16

COMPUTER PROGRAM FOR ANALYSIS OF ULTRACENTRIFUGAL ULTRAVIOLET SEDIMENTATION BOUNDARIES - BODPRO
LA-3026 N64-17240 09-28

ELECTRON PARAMAGNETIC RESONANCE SPECTRA OF AMINO ACID & PROTEIN UNDER ULTRAVIOLET LIGHT
N64-18519 11-16

ULTRAVIOLET PHOTODIODE SENSITIVE ONLY TO LIGHT OF WAVELENGTH LESS THAN 3050 ANGSTROMS FOR STUDYING ABLATION PHENOMENA
GA-4611 N64-21120 14-09

ULTRAVIOLET PHOTOLYSIS OF ORGANIC COMPOUNDS
R63SD15 N64-24936 17-19

AIR DENSITY METER USING ULTRAVIOLET BACKSCATTER MEASUREMENT
NASA-CR-60002 N64-29180 21-15

INACTIVATION AND RECOVERY OF MICROORGANISMS AFTER TREATMENT WITH ULTRAVIOLET LIGHT, X-RAYS, OR NITROGEN MUSTARD N64-30786 22-16

ULTRAVIOLET IRRADIATION-INDUCED CATALYTIC ACTIVITY OF MAGNESIUM OXIDE USING ELECTRON PARAMAGNETIC RESONANCE SPECTRA
NASA-RP-348 N64-34011 24-07

ULTRAVIOLET RADIATION
FORMATION OF ADENOSINE BY ULTRAVIOLET IRRADIATION OF ADENINE AND RIBOSE N64-11375 02-16

INTENSITY VARIATION OF SOLAR EXTREME ULTRAVIOLET RADIATION HAVING A PERIOD OF 27 DAYS
NASA-TM-X-51257 N64-11798 03-23

OPERATION OF AIRCRAFT OSCILLOGRAPH WITH ULTRAVIOLET RADIATION SOURCE AT DIFFERENT VOLTAGES
RAE-TRANS-1040 N64-12065 03-06

ELECTRON PARAMAGNETIC RESONANCE STUDY OF ALCOHOL RADICAL FORMATION BY ULTRAVIOLET RADIATION
N64-12723 04-07

EFFECT OF ULTRAVIOLET RADIATION ON RADIATION SICKNESS IN RATS N64-12803 04-16

ULTRAVIOLET IMAGING FROM SATELLITES
N64-15456 07-23

DETECTION OF SATELLITES AND SPACE PROBES BY ULTRAVIOLET, VISIBLE, & INFRARED RADIATION
N64-15475 07-23

ULTRAVIOLET RADIATION ABSORPTION BY PEPTIDES FOR DETECTION OF EXTRATERRESTRIAL LIFE ON MARS
NASA-CR-55655 N64-16109 07-14

UV-IRRADIATION PREPARATION AND PERFLUOROALKYLATION OF CARBO-, NITRO-, & SULFOFLUORIDES
AROD-007-18 N64-16963 09-07

ULTRAVIOLET AND VISIBLE RADIATION FROM SHOCK CAP REGION FOR LEXAN AND ALUMINUM SPHERES TRAVELING AT HYPERSONIC SPEEDS IN AIR
CARDE-TR-491/64 N64-19325 12-24

SYNERGISTIC EFFECT OF ULTRAVIOLET AND LOW ENERGY ELECTRON RADIATION DAMAGE TO SURFACES IN VACUUM
N64-19362 12-23

MUTATIONAL SYNERGISM BETWEEN ULTRAVIOLET RADIATION AND PURINES IN ESCHERICHIA COLI
N64-19544 12-14

WAVELENGTH ANALYSIS OF FLUORESCENCE FROM GASES EXCITED BY VACUUM ULTRAVIOLET RADIATION - PHOTOIONIZATION
AFCRL-64-168 N64-19633 12-23

LUMINESCENCE CAUSED BY PROTEIN COMPONENT OF RAT LIVER CELLS UNDER ULTRAVIOLET RAY EXCITATION
JPRS-24605 N64-20232 13-16

MOLECULAR CHANGES IN POLYAMIDE AND ELASTOMERIC POLYMERS DUE TO NUCLEAR, ULTRAVIOLET, AND THERMAL RADIATION
AD-434216 N64-21593 15-19

MONITORING OF SOLAR X-RAY AND ULTRAVIOLET RADIATION BY SOLAR OBSERVATORY SATELLITE
N64-21818 15-32

EFFECT OF BREMSSTRAHLUNG OF BETATRON AND ULTRAVIOLET RADIATION ON MINERAL OILS
FTD-TT-64-224/1&2&4 N64-21975 15-07

EFFECT OF SIMULATED SPACE ENVIRONMENT ON VIABILITY OF MICROORGANISMS - ULTRAVIOLET RADIATION EFFECT
NASA-CR-56525 N64-22786 16-16

INFRARED AND ULTRAVIOLET RADIATION FOR RIGIDIZING INFLATABLE SPACE STRUCTURES N64-23717 16-19

OPTICAL PROPERTIES OF ALKALI HALIDES UNDER VACUUM ULTRAVIOLET RADIATION
NASA-CR-58134 N64-26595 18-25

EFFECT OF CLOUDS ON ULTRAVIOLET SKY RADIATION
AFCRL-64-565 N64-27434 19-21

DEGRADATION OF WHITE PAINTS UNDER ULTRAVIOLET RADIATION
GDA-ERR-AN-64-487 N64-28053 20-17

SOLAR EXTREME ULTRAVIOLET RADIATION
NASA-RP-288 N64-29414 21-28

TIME VARIATION IN SOLAR EXTREME ULTRAVIOLET RADIATION MEASURED BY OSO- I N64-30257 22-28

SPECTROPHOTOMETRIC DETECTION OF METASTABLE HELIUM ATOMS EXCITED BY ULTRAVIOLET RADIATION
RPL-TDR-64-96 N64-31076 22-23

SOLAR EXTREME ULTRAVIOLET RADIATION OBSERVATIONS BY OSO-I MONOCHROMATOR
NASA-RP-338 N64-31215 22-28

CORRELATION OF EXTREME ULTRAVIOLET RADIATION WITH ACTIVE REGIONS ON SOLAR DISK BASED ON ELECTRON TEMPERATURE AND DENSITY CHANGES
NASA-RP-345 N64-31721 23-28

HIGH VACUUM SPARK DISCHARGE PRODUCTION OF ULTRAVIOLET RADIATION
NL-TDR-64-259 N64-32152 23-23

NIGHT AIRGLOW EMISSION IN ULTRAVIOLET REGION
N64-32705 24-12

ULTRAVIOLET SPECTROSCOPY
ULTRAVIOLET SPECTROSCOPY OF PLANETARY ATMOSPHERES
NASA-CR-52461 N64-10461 01-29

NEAR-ULTRAVIOLET, VISIBLE AND INFRARED SPECTROSCOPY OF SODIUM AND POTASSIUM THIOCYANATE
N64-14912 06-07

APPARATUS FOR EXTENDING MEASUREMENTS OF REFLECTION AND TRANSMISSION AND PHOTOELECTRON YIELDS OF THIN METALLIC FILMS TO FIFTY ANGSTROMS
NASA-CR-53287 N64-17599 09-15

MASS SPECTROMETRY, INFRARED AND ULTRAVIOLET SPECTROSCOPY, MICROANALYSIS, AND POLYMER CHEMISTRY
ASD-TDR-63-620 N64-18259 10-07

ULTRAVIOLET SPECTROSCOPY OF UPPER ATMOSPHERE
NASA-CR-53508 N64-18300 10-12

DESCRIPTION OF SPECTROGRAPHS USED IN ULTRAVIOLET SPECTROSCOPY N64-18807 11-07

ULTRAVIOLET SPECTROSCOPY OF UPPER ATMOSPHERE
NASA-CR-38 N64-28651 20-12

NITRIC OXIDE DAYGLOW MEASUREMENT BY ULTRAVIOLET SPECTROMETER ABOARD AEROBEE ROCKET
JPL-TR-32-640 N64-31239 22-12

INFRARED PHOTOGRAPHY AND SPECTROSCOPIC AND VISUAL OBSERVATIONS OF PLANETS AND MOON
SAR-6 N64-31592 23-29

ULTRAVIOLET SPECTROSCOPY AND PHOTOGRAPHY USING SPECTRALLY SELECTIVE IMAGE CONVERTER
NASA-TM-X-55072 N64-32857 24-15

ULTRAVIOLET SPECTRUM
ULTRAVIOLET ABSORPTION SPECTRUM OF METHYL-METHOXY-PENTANONE
TDR-269/4240-30/-2 N64-12662 04-19

EFFECTS RELATING ULTRAVIOLET SPECTRUM OF SUBSTITUTED BENZENES AND SPECTROSCOPIC MOMENT
ARL-63-220 N64-12703 04-23

PLANETARY AND LUNAR RESEARCH IN THE PHOTOGRAPHIC INFRARED, VISIBLE, AND ULTRAVIOLET SPECTRA
SAR-5 N64-14359 06-05

VACUUM ULTRAVIOLET PHOTOIONIZATION DETECTOR
NASA-RP-32 N64-14858 06-15

ULTRAVIOLET ABSORPTION SPECTRA OF STEROID AND CATECHOLE DERIVATIVES
ARL-TDR-63-29 N64-14971 06-16

PHOTOELECTRIC PROPERTIES OF LEAD SULFIDE IN NEAR AND VACUUM ULTRAVIOLET N64-15302 07-15

INTERPRETATION OF NEAR AND VACUUM ULTRAVIOLET BAND SPECTRA
AD-427906 N64-15362 07-23

ULTRAVIOLET ABSORPTION SPECTRA FROM PARTS OF METEORITIC MICROSTRUCTURE N64-16035 07-07

ULTRAVIOLET SPECTRUM OF SOLAR CHROMOSPHERIC STRUCTURE N64-18158 10-28

INTEGRATING AND POLAR NEPHELOMETER FOR ATMOSPHERIC SCATTERING MEASUREMENTS IN ULTRAVIOLET REGION
TDR-269/4230-20/-5 N64-18370 10-12

INTERPRETATION OF ULTRAVIOLET SPECTRUM OF BORON FLUORIDE WITH IMPURITIES
AD-433692 N64-18888 11-23

METHOD FOR OBTAINING ULTRAVIOLET AND VISIBLE SPECTRA OF INSOLUBLE MATERIALS BY USING LOW MOLECULAR WEIGHT POLYETHYLENE AS A DISPERSION MEDIUM
BM-RI-6439 N64-18993 11-23

ULTRAVIOLET ABSORPTION SPECTRA OF OXYGEN IN LIQUID AND CRYSTALLINE ARGON AND NITROGEN
N64-20596 13-23

ULTRAVIOLET ABSORPTION SPECTRA OF RUBY CRYSTALS
AFCRL-63-581 N64-20865 14-25

VACUUM ULTRAVIOLET SPECTRA OF MOLECULES, GEOPHYSICAL AND ASTROPHYSICAL PROCESSES, AND SPACE EXPERIMENT INVESTIGATIONS
AFCRL-64-393 N64-24175 16-29

ULTRAVIOLET, VISIBLE, & INFRARED SPECTROPHOTOMETRY FOR ANALYSIS OF MANNED SPACECRAFT
N64-24621 17-15

RATIO OF MONOCHROMATIC RADIATION SCATTERING TO DIRECT SOLAR RADIATION FOR ULTRAVIOLET AND VISIBLE SPECTRUMS N64-24796 17-28

RADIANCE OF EARTH AND ITS LIMB IN MIDDLE ULTRAVIOLET REGION
NASA-TN-D-2355 N64-25712 17-12

NEAR AND VACUUM ULTRAVIOLET BAND SPECTRA
ARDD-005-12 N64-27141 19-07

ULTRAVIOLET SPECTRA AND TRANSITION PROBABILITIES FOR CORONAL IONS
NASA-TT-F-8940 N64-30834 22-28

SKY BRIGHTNESS MEASUREMENTS IN VISUAL AND ULTRAVIOLET REGIONS OF SPECTRUM - MULTIPLE LIGHT SCATTERING
NASA-TT-F-8955 N64-30848 22-28

ELECTRON SPIN RESONANCE AND ULTRAVIOLET SPECTRA OF ION SOLVENTS
AD-449206 N64-32516 23-07

ULTRAVIOLET SPECTRA AND MOLECULAR BONDING PROPERTIES OF FLUORIDES
PR-5 N64-32961 24-07

UMBILICAL TOWER
UMBILICAL QUICK DISCONNECTS FOR ROCKET BOOSTERS & UMBILICAL TOWER
TOR-269/4303/-4 N64-14821 06-06

UMBRA
HIGH RESOLUTION PHOTOGRAPHY OF SUNSPOT UMBRAS WITH STRATOSCOPE I TELESCOPE N64-16677 08-28

UNCAMBERED WING
PRESSURE MEASUREMENTS AT SUPERSONIC SPEEDS ON UNCAMBERED CONICAL WINGS WITH SHARP LEADING EDGES
ARC-CP-641 N64-10161 01-03

UNCERTAINTY
LINEAR PROGRAMMING UNDER UNCERTAINTY WITH DISCRETE JOINT DISTRIBUTION FOR TRANSPORTATION OR INVENTORY PROBLEMS IN OPERATIONS RESEARCH
ORC-64-13/RR/ N64-33311 24-20

UNDERGROUND NUCLEAR EXPLOSION
S PLOWSHARE PROGRAM

UNDERWATER VEHICLE
DETECTION OF UNDERWATER VEHICLES AND OTHER OBJECTS BY USE OF GEOMAGNETIC, ELECTRIC, AND ELECTROMAGNETIC FIELDS & SENSING DEVICES
JPRS-23491 N64-15927 07-12

UNIFIED FIELD THEORY
UNIFIED THEORY OF RELAXATIONS IN PLASMAS
IPPJ-17 N64-15982 07-24

UNIFIED FIELD THEORY
REPT. 8665-6004-RU-000 N64-19730 12-23

UNIFORM FLOW
UNIFORMITY OF DISTRIBUTION & MOTION OF DISPERSION LAYER IN PARALLEL CHANNELS N64-11980 03-11

JETS AND WALL JETS IN UNIFORM STREAMING FLOW
REPT.-64-4 N64-23891 16-11

DIFFRACTION OF SHOCK WAVE MOVING INTO REGION OF UNIFORM FLOW
SSD-TDR-64-92 N64-27490 19-11

TURBULENT UNIFORM FLOW THROUGH SCREEN MATRIX ORIENTED PARALLEL TO MAIN FLOW
TR-60 N64-27784 19-11

UNIQUENESS THEOREM
UNIQUENESS THEOREMS IN DYNAMIC LINEAR THEORY OF VISCOELASTIC SOLIDS
AD-429806 N64-15943 07-20

UNIT
RADAR STUDY OF PLANET MARS - SURFACE, ROTATION, SURFACE CONDUCTIVITY, AND ASTRONOMICAL UNIT
NASA-CR-53051 N64-14844 06-29

ASTRONOMICAL UNIT DETERMINATION - CORRELATION OF ERRORS, ESTIMATION, AND VARIANCE
NASA-CR-55541 N64-15546 07-05

RELATION BETWEEN SYSTEM OF ASTRONOMICAL CONSTANTS AND RADAR DETERMINATIONS OF ASTRONOMICAL UNIT
NASA-CR-53066 N64-15783 07-05

LEAST SQUARES METHOD OF ESTIMATING SOLAR SYSTEM CONSTANTS - ASTRONOMICAL UNIT
NASA-CR-53195 N64-17225 09-

RESPONSES OF SINGLE UNITS IN AUDITORY CORTEX TO AUDITORY STIMULI IN CATS N64-27968 20-

PHYSICAL CONSTANTS AND CONVERSION FACTORS FOR INTERNATIONAL SYSTEM OF UNITS
NASA-SP-7012 N64-30087 21-

ASTRONOMICAL UNIT DETERMINATION FROM RESULTS OF RADAR OBSERVATIONS OF VENUS
NASA-TT-F-8532 N64-31727 23-

UNITARITY
UNITARY SYMMETRY AND WEAK INTERACTIONS N64-26098 18-

ONE-PARTICLE EXCHANGE APPROXIMATION AND FEYNMAN GRAPHS
TH-57 N64-26432 18-

TWO VERSIONS OF WEAK INTERMEDIATE VECTOR BOSON THEORY WITHIN UNITARY SYMMETRY
UR-875-36 N64-26449 18-

ALGEBRAIC TABULATION OF CLEBSCH-GORDAN COEFFICIENTS OF UNITARY SYMMETRY
UR-875-56 N64-33070 24-

MATRIX ELEMENTS OF DECUPLET OPERATOR OF UNITARY SYMMETRY - TENSOR METHOD
UR-875-53 N64-33141 24-

UNITED STATES
SYNOPTIC SITUATIONS ASSOCIATED WITH CYCLONES IN UNITED STATES
AFCRL-63-716 N64-11181 02-

SPACE EXPLORATION - UNITED STATES SPACE PROGRAM N64-24977 17-

SURVEY OF SCIENTIFIC RESEARCH IN UNITED STATES - BIBLIOGRAPHY N64-27208 19-

ENVIRONMENTAL RADIATION MEASUREMENTS IN CENTRAL, SOUTHEASTERN, AND WESTERN UNITED STATES, 1962-1963
HASL-145 N64-32160 23-

PROGRAMS OF THE UNITED STATES AIR FORCE OFFICE OF AEROSPACE RESEARCH
AD-601009 N64-32267 23-

UNIVAC 1107 COMPUTER
COMPUTER-INDEPENDENT ABSTRACT MACHINE-LANGUAGE ENCODER AND OPERATING SYSTEM OF UNIVAC 1107 THIN-FILM COMPUTER
NASA-TM-X-55096 N64-33622 24-

UNIVERSE
GEOMETRIC REPRESENTATION OF SPACE - COSMOLOGY N64-13923 05-

EINSTEIN FIELD EQUATIONS FOR ROTATING, STATIONARY, AND DUST-FILLED UNIVERSE
MRC-448 N64-17635 09-

SEVEN BASIC ELEMENTS IN UNIVERSE - COSMOLOGY
FTD-TT-62-960/1&2 N64-23389 14-

GALAXIES & STAR CLUSTERS IN UNIVERSE N64-24500 17-

CHEMICAL COMPOSITION OF UNIVERSE N64-24501 17-

UNMANNED SPACECRAFT
CF MANNED SPACECRAFT
EXPERIMENTS FOR UNMANNED SCIENTIFIC EXPLORATION OF THE MOON N64-10860 02-

ENVIRONMENT SIMULATION OF PAYLOADS FOR SOUNDING ROCKETS AND UNMANNED SPACECRAFT
NASA-TN-D-1916 N64-12713 04-

UNMANNED SPACECRAFT - DEEP SPACE PROBES AND SCIENTIFIC AND APPLICATIONS SATELLITES
NASA-EP-16 N64-24240 17-

SNAP-50 POWERPLANTS FOR UNMANNED SPACECRAFT PROPULSION
AIAA PAPER-64-494 N64-26254 18-27

UNMANNED VEHICLE SOFT-LANDING MISSION ON LUNAR SURFACE WITH VARIOUS PAYLOADS
AIAA PAPER-64-644 N64-27644 19-32

EARTH-BASED GUIDANCE OF UNMANNED LUNAR AND INTERPLANETARY SPACECRAFT
JPL-TR-32-472 N64-32824 24-29

UNSATURATION
DYNAMIC BIREFRINGENCE OF STRUCTURAL CHANGES AND MECHANICAL PROPERTIES OF UNSATURATED POLYOLEFIN HYDROCARBONS
ONR-TR-65 N64-16437 08-29

X-RAY FLUORESCENCE STUDY OF OSMIUM TETROXIDE-TRIGLYCERIDE INTERACTION AS FUNCTION OF DEGREE OF UNSATURATION N64-22863 16-16

UNSTEADY FLOW
UNSTEADY FLOW WITHIN LIQUID-FILLED SPINNING CYLINDER OF FINITE LENGTH
BRL-1225 N64-17860 10-11

UNSTEADY BOUNDARY LAYER THEORY
FTD-TT-63-778/1&2&4 N64-21743 15-11

THERMAL CHARACTERISTICS OF UNSTEADY FLOW THROUGH CIRCULAR PIPE WHOSE TEMPERATURE DEPENDS ON TIME AND FLOW-DIRECTIONAL DISTANCE ONLY
NAL-TR-53 N64-22135 15-13

COMPRESSIBLE FLOW FUNCTIONS AT MACH NUMBERS FROM 0 TO 20 - SPECIFIC HEAT RATIOS AND UNSTEADY FLOW AND IDEAL THRUST FUNCTIONS N64-26637 18-11

UNSTEADY BOUNDARY LAYER FLOW OF NONNEWTONIAN FLUID ON FLAT PLATE N64-28952 20-11

UNSTEADY FLOW PROCESS SUBSEQUENT TO THERMAL CHOKING
DVL-285 N64-30616 22-11

UNSTEADY MASS TRANSFER WITH CHEMICAL REACTION - INITIAL AND BOUNDARY CONDITIONS
D1-82-0365 N64-30825 22-07

UNSTEADY CAVITY FLOW ABOUT THIN HYDROFOILS
TR-119-5 N64-31028 22-11

ONE-DIMENSIONAL UNSTEADY MAGNETOGASDYNAMIC FLOW
SR-9 N64-31316 22-24

UNSTEADY FLOW PROBLEMS IN VISCOUS, ELECTRICALLY CONDUCTING FLUID IN MAGNETIC FIELD
NASA-TT-F-9105 N64-31565 23-24

ONE-DIMENSIONAL UNSTEADY POTENTIAL FLOW IN MAGNETOGASDYNAMICS N64-32341 23-24

UNSTEADY SPATIAL FLOW OF COMPRESSIBLE FLUIDS - WING OF FINITE SPAN IN PRESENCE OF MOVING SHOCK WAVE
NASA-TT-F-8983 N64-33390 24-03

UNSWEPT WING
PREDICTING FLUTTER AND DIVERGENCE OF UNSWEPT WINGS AT SUBSONIC & SUPERSONIC SPEEDS
NASA-TN-D-2051 N64-11902 03-33

COMPARISON OF KERNEL FUNCTION AND STRIP METHODS OF SUBSONIC FLUTTER CALCULATIONS FOR SWEPT AND UNSWEPT WINGS
NASA-TN-D-2297 N64-20285 13-33

UPPER AIR
UPPER AIR CLIMATOLOGY - WIND PROFILE CHARTS N64-16303 08-21

UPPER AIR DENSITY AND TEMPERATURE MEASURED BY RADAR-TRACKED FALLING SPHERES
NASA-CR-29 N64-17831 09-12

TROPICAL UPPER AIR STUDIES - PERSISTENCE OF DAILY TROPICAL STRATOSPHERIC WINDS
GRI-2562 N64-33315 24-21

UPPER ATMOSPHERE
SA IONOSPHERE
SA MAGNETOSPHERE
RELATION BETWEEN THEORETICAL & OBSERVATIONAL MODELS OF THE UPPER ATMOSPHERE
NASA-RP-76 N64-10473 01-12

EMISSION & ABSORPTION OF ATOMIC OXYGEN IN UPPER ATMOSPHERE N64-10916 02-28

DETERMINATION OF ATMOSPHERIC PARAMETERS WITH ROCKETBORNE MASS SPECTROMETER
NASA-CR-9 N64-11233 02-12

SODIUM VAPOR TRAIL STUDY OF TURBULENCE IN THE UPPER ATMOSPHERE
NASA-CR-52751 N64-11298 02-12

UPPER ATMOSPHERIC PHENOMENA - BIBLIOGRAPHY OF SOVIET LITERATURE
AID-P-63-116 N64-11447 03-12

INTERNATIONAL GEOPHYSICAL YEAR - UPPER ATMOSPHERE TEMPERATURE & WIND VELOCITY, AND IONOSPHERIC STUDY N64-11638 03-12

DATA LINK OSCILLATOR FOR USE IN ROCKETBORNE METEOROLOGICAL DROPSONDE FOR UPPER ATMOSPHERE RESEARCH STUDIES
SAD-130 N64-11824 03-08

UPPER ATMOSPHERIC INVESTIGATION BY SATELLITES AND ROCKETS N64-11849 03-12

OPTICAL RADAR OBSERVATIONS AND UPPER ATMOSPHERE ECHOES FROM METEOR DISINTEGRATION, AND ESTIMATED MATTER INFLUX
NASA-CR-55057 N64-12028 03-05

CORPUSCULAR RADIATION IN UPPER ATMOSPHERE
NASA-CR-55113 N64-12097 03-28

IONIZATION OF UPPER ATMOSPHERE BY SHORT-WAVE SOLAR RADIATION
E-T-R-63-1 N64-12230 03-28

HYDROGEN ION DISTRIBUTION IN UPPER ATMOSPHERE N64-12406 03-12

DETECTION OF SCATTERING LAYERS IN UPPER ATMOSPHERE BY OPTICAL RADAR N64-13148 04-25

RELATION BETWEEN STATISTICS FOR UPPER ATMOSPHERIC PRESSURE, TEMPERATURE, & DENSITY
NASA-RP-114 N64-13321 04-21

PHYSICAL PROPERTIES OF UPPER ATMOSPHERE N64-15279 07-12

INTERPRETATION OF DATA OBSERVED FROM SATELLITE WAKES IN UPPER ATMOSPHERE N64-15281 07-32

INFRARED ABSORPTION CHARACTER OF UPPER ATMOSPHERE N64-15411 07-21

CONCENTRATION OF DUST IN UPPER ATMOSPHERE AS INDICATED BY VARIATIONS IN LUMINESCENT INTENSITY N64-15458 07-23

DEW POINT TEMPERATURE AND ATMOSPHERIC ELECTRICITY MEASUREMENTS IN UPPER ATMOSPHERE N64-15465 07-21

RESPONSE OF MAGNETRON AND VACUUM GAUGES ABOARD EXPLORER XVII MEASURING TEMPERATURE, PRESSURE, AND DENSITY OF UPPER ATMOSPHERE
NASA-TN-D-2146 N64-15796 07-15

SOLAR ULTRAVIOLET RAY EFFECT ON OXYGEN MOLECULE DISSOCIATION IN POLAR UPPER ATMOSPHERE
NASA-TR-R-141 N64-16005 07-12

CHEMILUMINESCENCE FROM ATOMIC OXYGEN-NITRIC OXIDE REACTION UNDER UPPER ATMOSPHERIC CONDITIONS
NASA-CR-55805 N64-16028 07-12

UPPER ATMOSPHERE GAS DENSITY MEASUREMENT SENSOR AND CALIBRATION METHODS
NASA-CR-55789 N64-16067 07-15

UPPER ATMOSPHERIC PHENOMENA - BIBLIOGRAPHY
AID-P-64-10 N64-16099 07-12

ULTRAHIGH PRESSURE EFFECT ON STEEL, ATOMIC OXYGEN IN UPPER ATMOSPHERE, AND SOUNDING ROCKET STUDIES
FTD-TT-63-674/1 N64-16960 09-23

REFRACTIVE INDICES FOR HYDROMAGNETIC WAVE PROPAGATION IN EARTH UPPER ATMOSPHERE
AFCRL-64-228 N64-16978 09-12

UPPER ATMOSPHERE INVESTIGATION AND ELECTRON CALCULATIONS IN QUANTUM MECHANICS
AFCRL-64-216 N64-17002 09-23

LABORATORY RESEARCH IN LOW PRESSURE MEASUREMENT & AERONOMY RESEARCH IN UPPER ATMOSPHERE
NASA-CR-53198 N64-17582 09-15

TEMPERATURE DISTRIBUTION IN UPPER ATMOSPHERE OF VENUS
NASA-TM-X-51525 N64-17795 09-29

SHORT-PERIOD PULSATIONS OF EARTH ELECTROMAGNETIC FIELD AND PROCESSES IN UPPER ATMOSPHERE
JPRS-24085 N64-17975 10-12

ULTRAVIOLET SPECTROSCOPY OF UPPER ATMOSPHERE
NASA-CR-53508 N64-18300 10-12

TEMPERATURE AND DENSITY PROFILES OF UPPER ATMOSPHERE FROM METEOROLOGICAL ROCKET MEASUREMENTS
AWS-TR-175 N64-18697 11-21

UPPER AIR WINDS IN THE TROPICAL STRATOSPHERE - TROPOSPHERIC WESTERLIES
GMI-2383 N64-19189 11-21

SOLAR RADIATION AND IONOSPHERE, ATMOSPHERIC ELECTRICITY, ATMOSPHERIC NUCLEAR EXPLOSIONS, AND METEOROLOGY OF UPPER ATMOSPHERE - BIBLIOGRAPHY
AID-P-64-16 N64-19425 12-12

SODIUM VAPOR TECHNIQUE FOR UPPER ATMOSPHERIC WIND MEASUREMENTS
NASA-CR-53666 N64-19607 12-21

SYNOPTIC METEOROLOGY - WIND CIRCULATION AND ATMOSPHERIC PRESSURE IN UPPER ATMOSPHERE
NASA-TM-X-51597 N64-19610 12-21

INSTRUMENTATION IMPLEMENTATION FOR INVESTIGATION OF ELECTRICAL STRUCTURE OF UPPER ATMOSPHERE - MEASURING CHARGED PARTICLE DENSITIES
AFCRL-64-50 N64-19640 12-15

DEVELOPMENT OF GASEOUS NEBULA - IONIZING RADIATION ABSORPTION IN UPPER ATMOSPHERE N64-19715 12-05

COLLECTING MICROORGANISMS IN UPPER ATMOSPHERE
AD-428703 N64-19877 12-16

DIFFUSION AND TURBULENCE IN UPPER ATMOSPHERE - CHEMICAL RELEASE STUDIES
NASA-CR-53933 N64-19957 12-12

ROCKET-BORNE MASS SPECTROMETER MEASUREMENTS OF OXYGEN DISSOCIATION IN UPPER ATMOSPHERE
NASA-CR-53629 N64-19992 12-12

DIRECT MEASUREMENT OF HYDROGEN AND HELIUM ION DISTRIBUTION IN UPPER ATMOSPHERE
NASA-RP-168 N64-19994 12-12

UPPER ATMOSPHERIC PHENOMENA - ABSTRACTS
AID-P-64-30 N64-20469 13-12

COMPILATION OF ABSTRACTS ON UPPER ATMOSPHERIC PHENOMENA
AID-P-64-31 N64-20470 13-12

SPECTRAL ANALYSIS OF NEUTRAL COMPOSITION OF UPPER ATMOSPHERE N64-20501 13-12

COSMOS III AND V SATELLITE ANALYSIS OF UPPER ATMOSPHERIC DENSITY
RAE-TRANS-1060 N64-20534 13-12

ALTITUDE VARIATIONS OF VERTICAL SCALE SIZES IN WIND STRUCTURE ABOVE 100 KM
NASA-CR-53793 N64-20736 13-12

PROPAGATION, SCATTERING, AND GENERAL CHARACTERISTICS OF UPPER ATMOSPHERE N64-20752 14-12

LIGHT EMISSION OF UPPER ATMOSPHERE N64-20761 14-12

RIOMETER MEASUREMENTS WITH REGARD TO ABSORPTION CROSS-SECTION OF ELECTRONS IN UPPER ATMOSPHERE N64-20772 14-12

TABLE OF POLAR UPPER ATMOSPHERIC CONDITIONS N64-21520 15-12

INVESTIGATION OF UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V - INSTRUMENTATION N64-21632 15-12

INVESTIGATION OF UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V - LOW-ENERGY PARTICLES N64-21633 15-20

INVESTIGATION OF UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V - HIGH ENERGY PARTICLES N64-21634 15-20

INVESTIGATION OF UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS V - DENSITY OF UPPER ATMOSPHERE AT HEIGHTS OF 200-230 KILOMETERS N64-21635 15-12

UPPER ATMOSPHERIC ROCKET RESEARCH AND DESCRIPTION OF TELEMETRY GROUND STATIONS
AFCRL-64-195 N64-21720 15-08

HELIUM EMISSION IN UPPER ATMOSPHERE N64-21900 15-12

CORPUSCULAR RADIATION MEASUREMENT IN UPPER ATMOSPHERE WITH SATELLITES COSMOS III AND COSMOS
FTD-TT-63-1019/1&2 N64-21965 15-12

CHARGED PARTICLES & COSMIC RADIATION IN EARTHS UPPER ATMOSPHERE
FTD-TT-64-90/1&2&4 N64-22027 15-20

ROTATIONAL SPEED OF UPPER ATMOSPHERE DETERMINED FROM CHANGES IN SATELLITE ORBITS
RAE-TN-SPACE-59 N64-22498 15-20

DETECTION OF MICROORGANISMS IN UPPER ATMOSPHERE - ELECTROSTATIC PREPITATOR MODIFICATION, GENERATION OF TEST AEROSOLS, AND DESIGN OF FLIGHT SAMPLER
NASA-CR-50261 N64-22763 16-15

ION EXCHANGE PROCESSES IN UPPER ATMOSPHERE
NASA-TT-F-8525 N64-22929 16-12

INVESTIGATION OF UPPER ATMOSPHERE BY SATELLITES COSMOS III AND COSMOS V
NASA-TT-F-8565 N64-22931 16-13

IONIZATION OF ARGON IN UPPER ATMOSPHERE
NASA-TT-F-8817 N64-22935 16-12

RADIO FREQUENCY MASS SPECTROMETRY - UPPER ATMOSPHERE INVESTIGATIONS
AID-P-64-39 N64-23022 16-20

ELECTRICAL CONDUCTIVITY OF UPPER ATMOSPHERE
NASA-TT-F-9014 N64-23056 16-13

ELECTROSTATIC FIELD INTENSITY MEASUREMENT AT SURFACE OF GEOPHYSICAL ROCKETS MOVING IN UPPER ATMOSPHERIC LAYERS
NASA-TT-F-8529 N64-23114 16-13

MASS SPECTROMETER FOR INVESTIGATING COMPOSITION OF NEUTRAL AND IONIZED GASES IN UPPER LAYERS OF ATMOSPHERE
NASA-TT-F-8821 N64-23126 16-13

ROCKET INVESTIGATIONS OF UPPER ATMOSPHERE AND OUTER SPACE N64-23215 16-12

SOVIET DEVELOPMENTS IN ASTROPHYSICS AND GEOPHYSICS

OF UPPER ATMOSPHERE
AID-P-64-19 N64-23330 16-12

ABSTRACTS ON UPPER ATMOSPHERE FROM SOVIET LITERATURE
AID-P-64-43 N64-23885 16-12

BIBLIOGRAPHY OF SOLAR RADIATION AND UPPER ATMOSPHERIC PHENOMENA
AID-P-64-32 N64-24099 16-12

UPPER ATMOSPHERIC PHENOMENA
AID-P-63-28 N64-24162 16-12

INVESTIGATION OF UPPER ATMOSPHERIC LAYERS USING METEOROLOGICAL ROCKETS N64-24408 17-21

UPPER ATMOSPHERE STUDIES BY ROCKETS AND ARTIFICIAL EARTH SATELLITES N64-24409 17-21

CHEMICAL AERONOMY OF UPPER ATMOSPHERE N64-24474 17-21

ABSORPTION PROCESSES IN UPPER ATMOSPHERE N64-24475 17-21

NOCTILUCENT CLOUDS IN UPPER ATMOSPHERE AND GEOLOGICAL DEVELOPMENT OF EARTH CRUST
JPRS-24970 N64-24557 17-12

METEOROLOGICAL ROCKET AND GEOPHYSICAL SATELLITE STUDY OF NOCTILUCENT CLOUDS IN UPPER ATMOSPHERE N64-24558 17-21

MEASUREMENT OF UPPER ATMOSPHERIC WINDS
NASA-CR-36 N64-25119 17-21

TEMPERATURE FIELD IN UPPER ATMOSPHERIC LAYERS OVER USSR
RR-TR-64-3 N64-25216 17-12

THREE-BODY REACTIONS IN UPPER ATMOSPHERE & ATOMIC RECOMBINATION
NASA-CR-56783 N64-25507 17-12

THEORY AND DATA REDUCTION METHOD FOR PILOT-STATIC TECHNIQUE OF UPPER ATMOSPHERE MEASUREMENT
NASA-CR-56411 N64-25771 17-12

APPROXIMATE SOLUTIONS FOR FLIGHT PATH ANGLE OF REENTRY VEHICLE IN UPPER ATMOSPHERE
NASA-TN-D-2379 N64-25914 18-29

CHARACTERISTICS AND COMPOSITION OF UPPER ATMOSPHERE
CARDE-TR-470/64 N64-26042 18-12

UPPER ATMOSPHERE SCALE HEIGHT DETERMINATION FROM VOSTOK III AND VOSTOK IV SATELLITE MEASUREMENTS OF ATMOSPHERIC DENSITY
RAE-TM-SPACE-31 N64-26496 18-12

NEUTRAL AND IONIC COMPOSITION OF UPPER ATMOSPHERE BASED ON ROCKET SOUNDING RESULTS N64-26962 19-12

DETECTION OF HIGH ENERGY PARTICLES IN UPPER ATMOSPHERE BY OBSERVATION OF NIGHT AIRGLOW
NASA-TT-F-9031 N64-27368 19-12

BIBLIOGRAPHY ON IONOSPHERE AND UPPER ATMOSPHERE
8-4 N64-27521 19-12

RADIATION PROCESSES OF CHARGED PARTICLES MOVING IN UPPER ATMOSPHERE, AND COMPOSITION AND PROPERTIES OF MAGNETOSPHERE
NASA-CR-56721 N64-27810 19-28

TECHNIQUES OF UPPER LEVEL WIND ANALYSIS AND FORECASTING FOR USE BY AUTOMATIC AIR TRAFFIC CONTROL SYSTEM
RD-64-101 N64-27947 20-21

GEOMAGNETIC CONTROL OF DIFFUSION IN UPPER ATMOSPHERE
NASA-TM-X-55046 N64-28071 20-12

PHYSICS OF UPPER ATMOSPHERE
JPRS-16025 N64-28630 20-12

MOLECULAR OXYGEN DENSITY AND LYMAN ALPHA ABSORPTION IN UPPER ATMOSPHERE N64-28637 20-12

UPPER ATMOSPHERE POLLUTION BY ROCKETS
RM-3961-PR N64-28647 20-12

ULTRAVIOLET SPECTROSCOPY OF UPPER ATMOSPHERE
NASA-CR-38 N64-28651 20-12

UPPER ATMOSPHERE HEATING IN AURORAL ZONES DURING GEOMAGNETIC PERTURBATIONS - ANALYSIS OF ATMOSPHERIC DRAG DATA FROM INJUN III SATELLITE N64-28725 20-32

CHANGES IN UPPER ATMOSPHERIC COMPOSITION N64-28855 20-12

INSTRUMENT FOR MEASURING ION COMPOSITION OF UPPER ATMOSPHERE N64-28856 20-15

VARIATIONS IN UPPER ATMOSPHERIC TEMPERATURE MEASUREMENTS DURING GEOMAGNETIC STORMS AND QUIET INTERVALS
NASA-CR-56882 N64-28974 20-12

DETECTION OF UPPER ATMOSPHERIC ELECTRONS WITH ENERGIES FROM 40 EV TO 5 KEV USING FLUORESCENT SCREEN INDICATOR ON COSMOS V SATELLITE N64-29083 21-12

SEEDING IN UPPER ATMOSPHERE BY FIRING TWO BLACK BRANT I MISSILES
CARDE-TN-1587/64 N64-29528 21-21

TRANSMISSION OF PLANE HYDROMAGNETIC WAVES THROUGH UPPER ATMOSPHERE
REPT.-134 N64-30188 21-12

UPPER ATMOSPHERIC MODIFICATION OF ROCKET EXHAUST-RADAR INTERACTION
AEROCHEM-TP-98 N64-30487 22-26

PHOTOGRAPHIC INSTRUMENTATION FOR TRIANGULATION STUDIES OF LUMINOUS CLOUDS IN UPPER ATMOSPHERE N64-30794 22-15

PROPAGATION OF SOUND IN UPPER ATMOSPHERE - WAVE EQUATION FOR ACOUSTIC POINT SOURCE IN MEDIUM WITH VELOCITY PROFILE LINEAR WITH ALTITUDE
S-583 N64-31089 22-23

PROJECT FIREFLY - UPPER ATMOSPHERIC STUDIES
AFCRL-64-364 N64-31376 23-12

FIREFLY PROJECT - PHOTOGRAPHIC AND PHOTOMETRIC OBSERVATION OF WIND VELOCITY IN UPPER ATMOSPHERE FROM CHEMICAL PAYLOAD - DATA REDUCTION N64-31379 23-12

CHEMILUMINESCENT TECHNIQUES OF FIREFLY PROJECT FOR NIGHT IONOSPHERE WINDSTORM ANALYSIS IN UPPER ATMOSPHERE N64-31391 23-12

MOLECULAR RESONANCE OF ALUMINUM OXIDE FROM FIREFLY PROJECT SPECTROSCOPY IN UPPER NIGHT ATMOSPHERE N64-31393 23-12

IONOSPHERIC TEMPERATURE FROM FIREFLY PROJECT PHOTOGRAPHY OF UPPER ATMOSPHERE EXPLOSIONS N64-31396 23-12

UPPER ATMOSPHERE WIND SHEAR ANALYSIS BY GRAVITY WAVE SCALING APPLIED TO FIREFLY PROJECT DATA N64-31397 23-12

GASDYNAMICS OF NITRIC OXIDE TRAIL IN UPPER ATMOSPHERE - FIREFLY PROJECT N64-31401 23-12

WIND & TEMPERATURE MEASUREMENTS OBTAINED FROM ROCKETSONDES IN UPPER ATMOSPHERE DURING JANUARY 1964
IRIG-MWG-29-64 N64-31620 23-32

WIND AND TEMPERATURE MEASUREMENTS DERIVED FROM ROCKET PROBES OF UPPER ATMOSPHERE DURING FEBRUARY 1964
IRIG-MWG-30-64 N64-31621 23-32

OZONE DISTRIBUTION, ENERGETICS OF UPPER

ATMOSPHERE, AND ATMOSPHERIC CIRCULATIONS DUE TO TEMPERATURE DIFFERENCES
AFCRL-64-612 N64-31993 23-12

METEOROLOGICAL ROCKET NETWORK /MRN/ FOR UPPER ATMOSPHERE EXPLORATIONS - COMPILATION OF WIND AND TEMPERATURE DATA FROM 20 FIRINGS
IRIG-109-62, VOL. IV N64-32185 23-32

GRENADE DETONATION ACOUSTIC WAVE PROPAGATION IN UPPER ATMOSPHERE N64-32255 23-12

MEASUREMENT OF ELECTROSTATIC FIELD STRENGTH AT SPACECRAFT SURFACE IN UPPER ATMOSPHERE N64-32339 23-15

ANNOTATED BIBLIOGRAPHY ON UPPER ATMOSPHERIC PHENOMENA
AID-P-64-15 N64-32353 23-12

BIBLIOGRAPHY ON UPPER ATMOSPHERE PHENOMENA
ATD-P-64-51 N64-32354 23-12

METEOROLOGICAL ROCKET NETWORK FIRINGS - UPPER ATMOSPHERE STUDIES
IRIG-109-62, VOL. II N64-32654 23-32

MEASUREMENT OF ATMOSPHERE COMPONENTS OF NIGHT AIRGLOW CONTINUUM, INTENSITY INCREASE IN AIRGLOW, SPATIAL DISTRIBUTION OF H-ALPHA LINE EMISSION, AND HYDROXYL AND WEAK EMISSIONS IN UPPER ATMOSPHERE
NASA-TT-F-204 N64-32701 24-12

HYDROXYL EMISSION IN UPPER ATMOSPHERE N64-32707 24-12

SPECTROGRAPHIC OBSERVATION FROM AIRCRAFT OF UPPER ATMOSPHERIC RADIATION DURING SOLAR ECLIPSE N64-32710 24-12

SURFACE SPUTTERING BY ATOMS, IONS, AND MOLECULES - LABORATORY MEASUREMENTS BY MOLECULAR BEAM, AND IN UPPER ATMOSPHERE FROM INSTRUMENTED SATELLITES
GD/A-DBE-64-048 N64-33841 24-25

URANIUM
TEMPERATURE MEASUREMENT OF MOLTEN URANIUM USING INFRARED RADIATION PYROMETER
NLCO-890 N64-10134 01-01

SPECTROGRAPHIC ANALYSIS OF URANIUM FOR TRACE IMPURITIES BY CARRIER DISTILLATION METHOD
AEET/ANAL/25 N64-10149 01-23

TAPPING OF MOLTEN URANIUM FROM ELECTROLYTIC CELL FOR TRANSFER TO INGOT MOLDS
MCW-1481 N64-10211 01-06

URANIUM AND PLUTONIUM REMOVAL AS HEXAFLUORIDES BY FLUID-BED VOLATILITY FLUORINATION PROCESS
ANL-6742 N64-10217 01-19

CONTINUOUS STREAM ANALYSIS OF URANIUM SOLUTIONS OF X-RAY FLUORESCENCE - SPECTROGRAPHY
MCW-1477 N64-10431 01-07

QUENCHING PROPERTIES OF URANIUM FUEL CORE IN OIL AND WATER MEDIA
NLCO-891 N64-11092 02-18

CHROMIUM AS A METALLIC BONDING & DIFFUSION BARRIER BETWEEN URANIUM & ALUMINUM
EUR-413.F N64-11263 02-18

MEASUREMENT OF HEAT RESISTANCE BETWEEN FLAT SURFACES OF URANIUM & ALUMINUM IN CONTACT
RSIC-99 N64-11538 03-18

HEAVY-WATER-MODERATED NATURAL URANIUM ROD LATTICE PARAMETERS
DP-777 N64-12117 03-23

ABSOLUTE GAMMA-RAY INTENSITIES FROM PHOTOFISSION OF URANIUM AND THORIUM AFTER ELECTRON BOMBARDMENT
RTD-TDR-63-3072 N64-12232 03-23

CONDUCTIVITY & POLARIZABILITY OF URANIUM AND URANIUM CARBIDE AT OPTICAL FREQUENCIES
EUR-463.E N64-12917 04-23

MEASUREMENT METHODS FOR PLUTONIUM & URANIUM IN NUCLEAR FUEL CYCLE
TID-7029 N64-13907 05-07

FIVE-STAGE CENTRIFUGAL CONTRACTOR FOR EXTRACTING URANIUM FROM TRI-BUTYL PHOSPHATE SOLUTION
DP-841 N64-13945 05-17

ABSOLUTE DETERMINATION OF ISOTOPE RATIO OF U-235/U-238 WITH PHTOELECTRIC FABRY-PEROT INTERFEROMETER
EUR-307.D N64-14078 05-15

RESIDUAL STRESSES, INTERNAL FRICTION, AND YOUNGS MODULUS OF URANIUM
BMI-1658 N64-14160 05-18

SWELLING OF URANIUM UNDER IRRADIATION BY NEUTRONS AND FISSION PRODUCT N64-14228 06-23

CONTINUOUS AQUEOUS PROCESS FOR RECOVERY OF URANIUM FROM ZIRCONIUM ALLOY NUCLEAR FUELS
IDO-14619 N64-14241 06-07

STAINLESS STEEL SHELL-URANIUM CORE REACTOR ROD EXAMINATION AFTER IRRADIATION TO HIGH BURNUP LEVEL
ANL-6103 N64-14419 06-23

COMBUSTION AND DISINTEGRATION OF ZIRCONIUM HYDRIDE-URANIUM FUEL RODS N64-14574 06-24

EXTRACTION OF HAFNIUM, THORIUM, URANIUM, CALCIUM, MAGNESIUM, BARIUM, AND STRONTIUM FROM PERCHLORIC ACID SOLUTIONS
IS-777 N64-15337 07-07

TRANSIENT REACTOR COOLANTS FOR RETAINING FISSION PRODUCTS - MELTING URANIUM IN SODIUM AND TERPHENYL ENVIRONMENTS
NAA-SR-9163 N64-15401 07-23

PEROXIDE PRECIPITATION OF PROTACTINIUM AND URANIUM FROM THORIUM NITRATE-NITRIC ACID SOLUTIONS N64-15655 07-07

URANIUM AND PROTACTINIUM EXTRACTION FROM MOLTEN FLUORIDE SYSTEMS BY OXIDE PRECIPITATIONS N64-15658 07-07

ALPHA DECAY SCINTILLATION COUNTER FOR URANIUM SURFACE CONTAMINATION MEASUREMENT OF NUCLEAR REACTOR FUEL
HW-78268 N64-15998 07-23

REACTION KINETICS OF OXIDATION OF URANIUM IV BY THALLIUM III IN AQUEOUS PERCHLORIC ACID SOLUTIONS
SC-4972/RR/ N64-16697 08-07

STRIPPING AND REPLATING METHODS FOR NICKEL ELECTROPLATED URANIUM
RFP-342 N64-17274 09-09

TENSILE FRACTURE, MICROSTRUCTURE, AND CHEMICAL COMPOSITION OF URANIUM
BMI-1664 N64-17298 09-13

DETECTION OF ALPHA CONTAMINATION FROM URANIUM DUST IN ATMOSPHERE
K-1589 N64-17742 09-15

FISSION RESONANCE INTEGRALS OF URANIUM AND PLUTONIUM RADIOACTIVE ISOTOPES
AECL-1910 N64-18461 10-23

DIRECT ELECTROLYSIS OF URANIUM DIOXIDE TO URANIUM METAL IN FLUORIDE MELTS
BM-RI-6436 N64-18990 11-17

SAMPLE SIZE FOR MINIMIZING SAMPLE VARIANCE IN SAMPLING WELL-BLENDED URANIUM CONCENTRATE
MCW-1454 N64-19252 11-07

ALKALINE LEACHING PROCESS FOR RECOVERING URANIUM FROM CALCAREOUS CARNOTITE ORE
BM-RI-6409 N64-19996 12-17

CRITICAL MASSES OF SYSTEMS OF URANIUM OR PLUTONIUM
LAMS-3067 N64-20514 13-23

CHROMATOGRAPHIC CONCENTRATION AND SPECTROGRAPHIC DETERMINATION OF CADMIUM, YTTRIUM, SCANDIUM AND LANTHANON TRACES IN URANIUM METAL
EUR-587.E N64-20878 14-07

CALCULATION OF DEUTERIUM OXIDE MODERATED ORGANIC COOLED NATURAL URANIUM LATTICES
EUR-597.E N64-20879 14-23

CRITICAL DIMENSIONS OF URANIUM-GRAPHITE-WATER SPHERES, INFINITE SLABS, AND INFINITE CYLINDERS
LANS-2955 N64-20885 14-23

OBSERVATIONS BY TRANSMISSION ELECTRON MICROSCOPY ON DISLOCATIONS IN URANIUM AND DISLOCATIONS AND RADIATION DAMAGE IN PLATINUM
EUR-243.E N64-21047 14-18

INFRARED EXCITATION OF CALCIUM FLUORIDE CRYSTALS CONTAINING URANIUM AND FLUORESCENT EMISSION
N64-23003 16-25

OPTIMUM CONDITIONS FOR OBTAINING PLUTONIUM TRACER FROM NATURAL URANIUM IN CYCLOTRON
N64-25557 17-07

FABRICATION, EXTRUSION, AND FORMING OF URANIUM MARK V-B BILLETS
BRB-81 N64-25818 17-01

SYSTEM FOR NUCLEAR AUXILIARY POWER /SNAP/ PROGRAM FUELS USING ZIRCONIUM AND URANIUM SYSTEMS - BIBLIOGRAPHY
NAA-SR-9525, VOL. I N64-25866 18-18

DETERMINATION OF TRACE QUANTITIES OF URANIUM IN ALUMINUM - CHEMICAL SEPARATION AND SPECTROPHOTOMETER MEASUREMENT
K-1524 N64-28244 20-07

MOLTEN-SALT ELECTROREFINING OF URANIUM
BM-RI-6507 N64-28500 20-07

CONSTITUTION OF SYSTEMS OF URANIUM AND CARBON WITH MOLYBDENUM, NIOBIUM, RHENIUM, TUNGSTEN, AND YTTRIUM
BMI-1685 N64-28785 20-18

THERMAL FATIGUE TESTS ON STAINLESS STEELS AND ON COPPER CLAD WITH STAINLESS STEEL FOR USE AS CONSTRUCTION MATERIALS IN URANIUM DENITRATING VESSELS
DP-901 N64-29542 21-13

CHARACTERISTICS OF GRAPHITE-MODERATED GAS-COOLED REACTOR USING NATURAL URANIUM FUEL
N64-29711 21-23

EFFECT OF URANIUM ON ISOTHERMAL TRANSFORMATION AND HARDENING ABILITY OF LOW ALLOY STEEL
BM-RI-6515 N64-30066 21-18

UNITHIOL EFFECT UPON CASES OF ACUTE URANIUM POISONING N64-30245 22-16

TRACE ANALYSIS OF PLUTONIUM AND URANIUM BY ION EXCHANGE SEPARATION FROM FISSION PRODUCTS AND SOIL
NDL-SP-7 N64-30586 22-07

EFFECT OF URANIUM ON ALKALINE PHOSPHATASE ENZYME OF SOME ORGANS OF RATS N64-31347 23-16

VANADIUM AND URANIUM SEPARATION FROM HYDROCHLORIC ACID SOLUTIONS USING ANIONITES N64-31419 23-07

URANIUM ADDITION EFFECT ON HYDROGEN EMBRITTLEMENT SUSCEPTIBILITY OF HIGH STRENGTH STEEL
NAEC-AML-1759 N64-31626 23-18

NEUTRON INTERACTING ARRAYS - HOMOGENEOUS URANIUM SOLUTION AND URANIUM METAL FUEL ELEMENTS
K-1619 N64-33009 24-23

ELECTRON MICROSCOPY AND COLORIMETRY OF ROLLED AND CAST URANIUM AND URANIUM-CARBON ALLOY SPECIMENS
NLCO-930 N64-33011 24-18

CHEMICAL AND PHYSICAL PROPERTIES OF URANIUM AND TRANSURANIC ELEMENTS - MANUFACTURING PROCESSES
AEC-TR-6421 N64-33013 24-07

RHENIUM DETERMINATION IN RHENIUM-URANIUM-ZIRCONIUM CARBIDE USING X-RAY ABSORPTION EDGE METHOD
LA-3135 N64-33879 24-07

URANIUM ALLOY
FORGING DEPLETED URANIUM COMPONENTS DIRECTLY FROM CO-REDUCED URANIUM ALLOY INGOT STOCK
WAL-TR-420.5/1 N64-10243 01-18

DENSITY DETERMINATION OF THORIUM-URANIUM, THORIUM-PLUTONIUM, CAST THORIUM, & MONOBROMOBENZENE IN GLOVEBOXES
ANL-6671 N64-10394 01-07

DIFFUSION COUPLE BONDING TECHNIQUE FOR OBTAINING DATA ON DIFFUSION KINETICS OF ALUMINUM-NICKEL-URANIUM SYSTEM
NAA-SR-8387 N64-11911 03-25

PLUTONIUM-URANIUM-CARBON SYSTEMS AS POSSIBLE FUELS FOR LIQUID-METAL COOLED FAST REACTORS
ANL-6678 N64-12355 03-19

CALORIMETRIC DETERMINATION OF HEAT CAPACITIES OF URANIUM ISOTOPES AND THEIR ALLOYS WITH FISSIUM MIXTURE
ANL-6702 N64-12906 04-13

THERMAL, X-RAY, AND MICROSCOPIC ANALYSIS OF PHASE DIAGRAM FOR TERNARY ALLOYS OF IRON, ALUMINUM, AND URANIUM
MCW-TR-1 N64-12907 04-18

IRRADIATION AND POSTIRRADIATION ANNEALING OF SOME ALUMINUM-BASE URANIUM FUELS
ANL-6665 N64-13025 04-18

PHASE DIAGRAM AND LATTICE STRUCTURE OF URANIUM - THORIUM ALLOYS
AEC-TR-5834 N64-13908 05-18

URANIUM-PALLADIUM THIN FOILS FOR CHEMONUCLEAR REACTOR FUEL ELEMENT
BNL-827/T-322/ N64-14401 06-23

URANIUM-MOLYBDENUM ALLOYS FOR LIQUID-METAL-COOLED REACTOR FUELS
NAA-SR-6262 N64-14406 06-23

REENTRY BURNUP OF HYDRIDED ZIRCONIUM-URANIUM ALLOY
N64-14576 06-18

PHASE DIAGRAMS FOR ELECTROLYTES, OXYGEN IN FUSED FLUORIDE ELECTROLYTE, ANALYSIS OF URANIUM ALLOYS, AND METHOD FOR ANALYZING HIGH PURITY MAGNESIUM
MCW-1482 N64-15561 07-19

DEFORMATION AND COMPRESSION OF QUENCHED URANIUM-MOLYBDENUM ALLOYS
AERE-R-4353 N64-15603 07-18

TECHNOLOGY OF DEUTERIUM OXIDE MODERATED POWER REACTOR WITH URANIUM-PLUTONIUM OR THORIUM-URANIUM FUEL CELL
DP-864 N64-15771 07-23

EFFECT OF ALLOYING ON GAMMA-PHASE STABILITY OF URANIUM USING VACUUM DIFFERENTIAL THERMAL ANALYSIS
UCRL-7595 N64-16286 08-25

MELTING, CASTING, AND MECHANICAL PROPERTIES OF URANIUM ALLOYED WITH STEELS
BM-RI-6403 N64-17496 09-18

ELECTRON MICROSCOPE STUDY OF URANIUM ALLOYS AND ALLOY OF THORIUM FUEL ELEMENT STRUCTURES
MCW-1483 N64-19249 11-18

STRUCTURE & PROPERTIES OF URANIUM, THORIUM, AND ZIRCONIUM ALLOYS
JPRS-24347 N64-19441 12-18

EFFECT OF REPEATED QUENCHING ON CRACKING OF URANIUM ALLOYS N64-19443 12-18

KINETICS OF TRANSFORMATION BY QUENCHING OF BETA-PHASE IN ALLOYS OF URANIUM WITH ALUMINUM, SILICON,

IRON, NICKEL, MOLYBDENUM, & FISSION
N64-19444 12-18

STATE OF IMPURITIES WITH RESPECT TO TEMPERING TEMPERATURE OF URANIUM ALLOYS
N64-19445 12-18

FABRICATION OF ZIRCALOY-2 CLAD THORIUM-URANIUM ALLOY FUEL ELEMENTS
HW-79843 N64-22501 15-18

GRAVIMETRIC DETERMINATION OF NICKEL IN URANIUM ALLOYS WITH DIMETHYLGLYOXIME
LA-3088 N64-25715 17-18

GRAVIMETRIC DETERMINATION OF RHODIUM IN URANIUM-RHODIUM ALLOYS
LA-3097 N64-26616 18-18

FISSION PRODUCT RELEASE FROM SYSTEM FOR NUCLEAR AUXILIARY POWER 10A/2 /SNAP-10A/ URANIUM-ZIRCONIUM HYDRIDE FUEL
NAA-SR-9673 N64-26631 18-23

OXIDATION OF URANIUM B THALLIUM IN AQUEOUS CHLORIDE SOLUTION
SC-RR-64-552 N64-26639 18-07

PHYSICAL AND MECHANICAL PROPERTIES OF METASTABLE GAMMA PHASE OF URANIUM ALLOY CONTAINING NIOBIUM AND ZIRCONIUM
UCRL-7869 N64-28778 20-18

ELECTRON MICROSCOPY AND COLORIMETRY OF ROLLED AND CAST URANIUM AND URANIUM-CARBON ALLOY SPECIMENS
NLCO-930 N64-33011 24-18

EQUILIBRIUM STRUCTURES IN URANIUM ALLOYS CONTAINING SILICON
MCW-1486 N64-33461 24-18

URANIUM CARBIDE
REPROCESSING OF URANIUM CARBIDE BY NITRIDE-CARBIDE CYCLE
NAA-SR-8388 N64-11322 02-07

ENTHALPY & HEAT CAPACITY OF URANIUM CARBIDE TO 1200-DEG CENTIGRADE
PWAC-426 N64-12720 04-13

CONDUCTIVITY & POLARIZABILITY OF URANIUM AND URANIUM CARBIDE AT OPTICAL FREQUENCIES
EUR-463.E N64-12917 04-23

FAILURE DETERMINATION OF VAPOR-FILLED THERMIONIC CONVERTER WITH URANIUM-ZIRCONIUM CARBIDE EMITTING SURFACE
RTD-TDR-63-4190 N64-13755 05-06

HIGH-TEMPERATURE, SHORT-TIME URANIUM CARBIDE-METAL REACTIONS
HW-72031 N64-13978 05-19

ELECTRON EMISSION TEST OF URANIUM CARBIDE COMPATIBILITY WITH TUNGSTEN ALLOYS FOR NUCLEAR FUEL ELEMENTS
N64-14212 06-18

MASS LOSS RATE OF URANIUM AND ZIRCONIUM FROM URANIUM CARBIDE-ZIRCONIUM CARBIDE FLUIDIZED BY HELIUM AND HYDROGEN
LAMS-2994 N64-14240 06-23

URANIUM CARBIDE RESEARCH
TID-7676 N64-17532 09-19

FUEL ELEMENT - HEAT TRANSFER IN GAS GAP BETWEEN URANIUM MONOCARBIDE AND ALUMINUM SURFACES
EUR-521.E N64-17775 09-23

SINGLE CRYSTALS OF URANIUM MONOCARBIDE PREPARED FROM ARC-MELTED RODS
NAA-SR-7465 N64-19711 12-25

MATERIAL BUCKLINGS OF CRITICAL AND SUBCRITICAL URANIUM CARBIDE FUELED GRAPHITE ASSEMBLIES
NAA-SR-9772 N64-28709 20-23

PHASE EQUILIBRIUM DIAGRAM FOR URANIUM CARBIDE-THORIUM CARBIDE SYSTEMS
ORNL-3668 N64-29415 21-24

POST-ACTIVATION DIFFUSION EMISSION OF XENON FROM GRAPHITE MATRIX URANIUM CARBIDE
EUR-1454.E N64-29776 21-23

CHEMICAL AND THERMAL DIFFUSION OF URANIUM CARBIDES
BMI-1686 N64-29887 21-11

EFFECTS OF TANTALUM ON URANIUM CARBIDE CASTINGS AT LIQUIDUS TEMPERATURES
BMI-1673 N64-31593 23-10

URANIUM COMPOUND
METALLURGY - RARE EARTH, HAFNIUM CARBIDE, THORIUM, URANIUM NITRIDE, & TUNGSTEN-RHENIUM ALLOYS
USBM-U-1082 N64-10253 01-10

OPTICAL EMISSIVITY & ELECTRICAL RESISTIVITY OF URANIUM-ZIRCONIUM CARBIDE PIN AT HIGH TEMPERATURES
LAMS-2965 N64-11593 03-10

RARE EARTH ALLOY, HAFNIUM CARBIDE, THORIUM ALLOY, URANIUM-CARBON-OXYGEN SYSTEM, TUNGSTEN-RHENIUM TUBING, & COLD-MOLD MELTING RESEARCH
USBM-U-1109 N64-19030 11-10

PHASE DIAGRAM OF URANIUM-PLUTONIUM AT TEMPERATURES BELOW 635-DEG C WITH LESS THAN 50 ATOMIC PERCENT CARBON
ANL-6435 N64-28110 20-10

THORIUM AND THORIUM-URANIUM COMPOUNDS AS POTENTIAL THERMAL BREEDER FUELS
BMI-1680 N64-28125 20-10

CHEMICAL AND PHYSICAL PROPERTIES OF URANIUM AND TRANSURANIC ELEMENTS - MANUFACTURING PROCESSES
AEC-TR-6421 N64-33013 24-07

URANIUM FLUORIDE
URANIUM AND PLUTONIUM REMOVAL AS HEXAFLUORIDES BY FLUID-BED VOLATILITY FLUORINATION PROCESS
ANL-6742 N64-10217 01-19

SEPARATION OF GASEOUS MIXTURES OF URANIUM AND PLUTONIUM HEXAFLUORIDES BY THERMAL DECOMPOSITION
ANL-6762 N64-10219 01-19

DIRECT INFRARED ABSORPTION DETERMINATION OF URANYL FLUORIDE IN URANIUM FLUORIDE
MCW-1468 N64-11289 02-07

REMOVAL OF URANIUM HEXAFLUORIDE FROM GAS STREAM WITH NITROGEN BY SINGLE LAYER OF SODIUM FLUORIDE PELLETS - DIFFERENTIAL EQUATION EXPLANATION
ORNL-3494 N64-11342 02-25

REDUCTION OF URANIUM HEXAFLUORIDE RETENTION ON MAGNESIUM FLUORIDE ABSORBERS USED IN REMOVAL OF TECHNETIUM HEXAFLUORIDE
ORNL-3544 N64-14888 06-07

ERROR IN URANIUM HEXAFLUORIDE ISOTOPIC RATIO MEASUREMENTS DUE TO IMPURITY OF RESIDUAL GASES IN ION INTERACTION
K-1400 N64-16017 07-23

INSTRUMENTATION FOR MEASURING FREEZING POINTS OF URANIUM HEXAFLUORIDE-HYDROGEN FLUORIDE SAMPLES
K-1590 N64-17530 09-15

ELECTRICAL CONDUCTIVITY AND DENSITY OF MOLTEN-SALT ELECTROLYTES - URANIUM TETRAFLUORIDE AND THORIUM FLUORIDE WITH ALKALI FLUORIDES
BM-RI-6500 N64-26844 18-11

URANIUM OXIDE
DENSITY AND PURITY OF FUSED URANIUM DIOXIDE
DP-819 N64-10126 01-19

REACTIVITY AND FLUX PERTURBATION ANALYSIS OF SPECTRAL SHIFT CONTROL REACTORS - PERTURBED LATTICES OF URANIUM DIOXIDE
BAW-1274 N64-10151 01-23

CRACKING AND BULK MOVEMENT IN IRRADIATED URANIUM OXIDE FUEL ELEMENTS
AECL-1827 N64-10259 01-23

EMANATION OF THORON FROM SINTERED URANIUM DIOXIDE

POWDER AND PLATE AS FUNCTION OF TEMPERATURE
WAPD-276 N64-10365 01-23

THERMOCONDUCTIVITY OF SINGLE-CRYSTAL COLUMNAR GRAINS IN IRRADIATED URANIUM DIOXIDE FUEL ELEMENTS
AECL-1822 N64-10376 01-13

OXYGEN-URANIUM RATIO EFFECT ON THERMAL CONDUCTION OF URANIUM OXIDE
CRDC-1153 N64-10615 01-13

PHASE TRANSFORMATION IN DIRECT AND INDIRECT REDUCTION OF URANIUM-OXYGEN SYSTEMS
JPRS-19324 N64-10655 01-07

USE OF THORIUM AND URANIUM DIOXIDES AS NUCLEAR FUELS
CRFS-1154 N64-10861 02-23

UNIFORM LATTICE ANALYSIS OF SLIGHTLY ENRICHED URANIUM DIOXIDE FUEL RODS
BAW-1273 N64-10987 02-23

VISIBLE AND INFRARED ABSORPTION SPECTRA OF SINGLE CRYSTAL AND POLYCRYSTALLINE URANIUM DIOXIDE
HW-79033 N64-11209 02-23

REACTOR TECHNOLOGY - NUCLEAR SAFETY, PRESSURIZED WATER REACTOR, XENON OSCILLATION, MATRIX ALGEBRA, AND AUTORADIOGRAPHY OF URANIUM OXIDE
WAPD-BT-29 N64-11341 02-23

GROWING OF URANIUM DIOXIDE SINGLE CRYSTALS FROM VAPOR
EUR-345.E N64-11399 02-28

SWAGING OF VARIOUS URANIUM DIOXIDE POWDERS FOR USE IN FABRICATION OF FUEL ELEMENTS
EUR-353.D N64-12000 03-17

LENGTH CHANGES OF ZIRCALOY SHEATHED URANIUM OXIDE FUEL ELEMENTS DURING IRRADIATION
CRFD-1174 N64-12092 03-19

IRRADIATION OF SINGLE CRYSTAL URANIUM OXIDE & EFFECTS ON CRYSTAL STRUCTURE
HW-73959 N64-13015 04-25

FLUID BED FLUORINATION OF TRIURANIUM OCTOXIDE
ANL-6763, PT. 4 N64-14202 06-17

OXYGEN TO METAL RATIO IN SOLID SOLUTIONS OF URANIUM AND PLUTONIUM DIOXIDES
GEAP-4271 N64-16125 08-07

PERFORMANCE OF URANIUM DIOXIDE AND STAINLESS STEEL CLAD FUEL AT HIGH POWER DENSITY CONDITIONS AND REDUCTIONS IN FUEL FABRICATION COSTS
GEAP-4294 N64-16250 08-23

OXIDATION OF URANIUM DIOXIDE AT HIGH TEMPERATURES AND LOW PRESSURES
FTD-TT-63-102/1&2 N64-16357 08-07

INTERNAL SILICA CONTAMINATION OF URANIUM, THORIUM, AND YTTRIUM OXIDE FUELS N64-17001 09-23

EMISSION OF FISSION PRODUCTS FROM LIGHTLY IRRADIATED URANIUM DIOXIDE - EQUIPMENT AND PROCEDURES FOR SWEEP METHOD OF INVESTIGATION
AERE-R-4322 N64-17207 09-23

THERMAL CONDUCTIVITY OF URANIUM DIOXIDE AND ARMCO IRON BY AN IMPROVED RADIAL HEAT FLOW TECHNIQUE
ORNL-3556 N64-21483 14-13

PRODUCTION METHOD TO OBTAIN IODINE 131 BY DRY DISTILLATION FROM URANIUM OXIDES
N64-23058 16-23

POWDER-ROLLING OF TUNGSTEN-URANIUM DIOXIDE DISPERSION ALLOY SHEETS FOR USE AS FUEL ELEMENTS
LA-2485 N64-24575 17-18

TENSILE FRACTURE STRESS OF TUNGSTEN-URANIUM OXIDE CERMETS FABRICATED BY PNEUMATIC IMPACTION
HW-79676 N64-25964 18-19

EXTRUSION OF URANIUM DIOXIDE
EUR-547.F N64-26070 18-18

CHARACTERIZATION OF URANIUM DIOXIDE PARTICLES AND STUDIES OF FABRICATION VARIABLES FOR CORE B FUEL PLATES FOR FAST BREEDER REACTOR
ORNL-3645 N64-26798 18-17

ENERGY TRANSFER ABSORPTION BY URANYL ION TO NEODYMIUM ION CAUSING NEODYMIUM-3 ION LUMINESCENCE IN BARIUM CROWN GLASS HOST MATRIX
NRL-1525 N64-27523 19-25

CORROSION OF STAINLESS STEEL BY SIMULATED WATER MODERATED REACTOR FUEL - DEPLETED URANIUM OXIDE IN NITRIC OR PHOSPHORIC ACID
LA-3101 N64-29772 21-18

SINTERING, THERMOCONDUCTIVITY, THERMAL EXPANSION, RESISTIVITY, HARDNESS, & CRACK RESISTANCE OF SINTERED URANIUM OXIDE-ZIRCONIUM OXIDE BLENDS
BMI-1689 N64-30768 22-25

TRANSPORT OF PLUTONIUM TETRACHLORIDE VAPOR IN CHLORINE GAS DURING REACTION OF URANIUM AND PLUTONIUM OXIDES WITH CARBON TETRACHLORIDE
ORNL-3693 N64-32415 23-07

URANIUM-232
PREPARING URANIUM 232 BY IRRADIATION OF RADIOACTIVE THORIUM ISOTOPES
MLM-1182 N64-16556 08-23

URANIUM-233
CALIBRATION AND ANALYSIS OF RECORDED SHOCK TUNNEL DATA FROM PIEZOELECTRIC PRESSURE GAUGES
RTD-TDR-63-3073 N64-13308 04-15

HEAVY MASS YIELDS FROM THERMAL NEUTRON FISSION OF URANIUM-233
USNRDL-TR-679 N64-13309 04-23

CRITICAL DIMENSIONS OF SYSTEMS CONTAINING URANIUM 235 & 233 AND PLUTONIUM 239
TID-7028 N64-25117 17-23

URANIUM-235
ANGULAR DISTRIBUTION OF PROMPT FISSION GAMMA RAYS WITH RESPECT TO SELECTED FISSION FRAGMENTS IN THERMAL NEUTRON FISSION OF URANIUM 235
AEET/NP/7 N64-10231 01-23

ABSOLUTE DETERMINATION OF ISOTOPE RATIO OF U-235/U-238 WITH PHTOELECTRIC FABRY-PEROT INTERFEROMETER
EUR-307.D N64-14078 05-15

PURIFICATION OF URANIUM-235 & 238 FOR MASS SPECTROMETRIC STUDY OF FISSION PRODUCTS
UCRL-11074 N64-14712 06-23

URANIUM-235 PRODUCTION BY THERMAL MOTION OF DEUTERON IN GASEOUS FISSION REACTOR
RM-3851-AEC N64-15673 07-23

ANGULAR DISTRIBUTION OF GAMMA RAY EMISSION IN SLOW NEUTRON FISSION OF URANIUM-235 AND PLUTONIUM-239
KFKI-16/1963 N64-15988 07-23

DOSE RATES, ACTIVITY, AND SHIELDING TRANSMISSION FACTORS FOR URANIUM-235 FISSION PRODUCTS AFTER SHORT IRRADIATION
LAMS-2963 N64-17500 09-23

CRITICAL DIMENSIONS OF SYSTEMS CONTAINING URANIUM 235 & 233 AND PLUTONIUM 239
TID-7028 N64-25117 17-23

STATISTICAL METHOD FOR EVALUATING URANIUM-235 HOMOGENEITY IN REACTOR FUEL RODS
NAA-SR-9600 N64-26702 18-23

EVALUATION OF REDUCED GROUP DECAY CONSTANTS AND ABUNDANCES USED IN REACTOR NEUTRONIC KINETIC EQUATIONS BY LEAST-SQUARES TECHNIQUE - URANIUM-235 FAST FISSION GROUPS
LA-3082 N64-26766 18-23

ENERGY AND TIME BETA-RAY SPECTRA FROM FISSION OF URANIUM AND PLUTONIUM N64-28217 20-23

URANIUM-238
PURIFICATION OF URANIUM-235 & 238 FOR MASS SPECTROMETRIC STUDY OF FISSION PRODUCTS
UCRL-11074 N64-14712 06-23

UREA
PROPERTIES OF ELECTRIC INSULATED PLASTICS OF PHENOL-FORMALDEHYDE AND CARBAMIDE RESINS
JPRS-19519 N64-11218 02-19

BIOSYNTHESIS OF UREA IN LIVER AND BLOOD PROTEIN FRACTION AFTER PLUTONIUM-239 INJURY
N64-12571 04-16

HEAT OF FORMATION OF HEXAUREA ALUMINUM III PERCHLORATE
PA-TM-1295 N64-14099 05-13

USE OF UREA AT ANODE OF BIOCHEMICAL FUEL CELL
N64-17392 09-06

PREPARATION OF URETHANE-UREA CAST ELASTOMERS WITH IMPROVED OIL RESISTANCE AND TENSILE STRENGTH
AD-430459 N64-18617 11-07

UREA USED FOR TREATMENT OF IMPAIRED EXCRETORY FUNCTION OF KIDNEYS IN BURN INJURY
JPRS-25928 N64-27324 19-16

URETHANE
SA POLYURETHANE
ANALYSIS OF URETHANE COMPOUNDS BY INFRARED SPECTROPHOTOMETRY
SCR-322 N64-14431 06-07

PREPARATION OF URETHANE-UREA CAST ELASTOMERS WITH IMPROVED OIL RESISTANCE AND TENSILE STRENGTH
AD-430459 N64-18617 11-07

FIRING INSTABILITY OF AGED ROCKET PROPELLANTS AND IMPROVED STORAGE STABILITY OF POLYURETHANE BINDERS
ML-TDR-64-65 N64-27640 19-19

CLEAVAGE REACTIONS IN CROSS LINKED URETHANE ELASTOMERS
ONR-TR-RLT-82 N64-28982 20-07

SYNTHESIS OF POLYETHER URETHANE ELASTOMERS & THEIR OIL RESISTANCE AND LOW TEMPERATURE FLEXIBILITY
AD-421811 N64-31249 22-19

URINE
URINE ULTRAFILTRATION FOR WATER RECOVERY USING MEMBRANE FILTERS
NASA-CR-51575 N64-11383 02-16

MEDICAL CLINIC INVESTIGATION OF WATER RECOVERED FROM HUMAN URINE
AMRL-TDR-63-70 N64-11445 03-16

BIOCHEMICAL INVESTIGATION OF BLOOD & URINE OF DOGS AFTER SPACE FLIGHT N64-11673 03-16

CONVERTING URINE AND WASH WATER INTO DRINKABLE FORM BY MODEL INTEGRATED WATER RECOVERY SYSTEM
AMRL-TDR-63-88 N64-12217 03-06

URINARY CATECHOLAMINE OUTPUT CHANGES ASSOCIATED WITH MOTION SICKNESS DUE TO TURBULENT FLIGHT
SAM-TDR-63-9 N64-13931 05-16

EXPERIMENTAL ULTRAFILTRATION SYSTEM FOR RECOVERING POTABLE WATER FROM URINE USING MEMBRANE FILTERS
AMRL-TDR-63-113 N64-14695 06-16

BED REST STUDY OF RADIOGRAPHIC BONE DENSITY AND URINE ANALYSIS FOR CALCIUM AND PHOSPHORUS
NASA-CR-55313 N64-14898 06-16

EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 5-HYDROXYINDOLEACETIC ACID DURING JET FLIGHTS
JPRS-23607 N64-16544 08-16

CHEMISTRY - CHEMICALS AND RADIOACTIVE ISOTOPIC CONTAMINANTS IN AIR AND URINE
SC-4783/RR/ N64-17268 09-07

URINE EVACUATING SYSTEM FOR USE IN FULLY PRESSURIZED SUITS
SAM-TDR-64-13 N64-17958 10-16

WATER RECOVERY FROM URINE BY FREEZE DRYING PROCESS USING MICROWAVE ENERGY SOURCE
AMRL-TDR-63-130 N64-18789 11-16

EFFECTS OF HIGH CONCENTRATION OF CARBON DIOXIDE AND OF LIQUID DIET ON URINE EXCRETION OF STEROIDS AND CATECHOLAMINES
SAM-TDR-63-63 N64-21094 14-16

MICROBIAL AND ENZYMATIC PROCESSES FOR REDUCING HUMAN URINE AND FECES TO ELECTROCHEMICAL FUELS
NASA-CR-54077 N64-27930 20-04

WATER RECOVERY FROM URINE BASED ON ULTRAFILTRATION AFTER ELECTROLYTIC UREA REMOVAL
NASA-CR-58700 N64-29503 21-07

INORGANICALLY BOUND IODINE-131 SEPARATED FROM URINARY CONSTITUENTS BY ION EXCHANGE ON SILVER CHLORIDE COLUMN
ANL-6887 N64-30602 22-16

WATER RECOVERY FROM SEA WATER AND FROM HUMAN URINE
REPT.-3 N64-30696 22-16

CHANGES IN HUMAN 17-KETOSTEROID URINE EXCRETION
N64-33452 24-16

V

V/STOL AIRCRAFT
OPERATIONAL AND SYSTEM ANALYSIS OF VARIOUS V/STOL AIRCRAFT N64-13500 04-04

VTOL/STOL AIRCRAFT - BIBLIOGRAPHY
N64-13902 05-04

LATERAL-DIRECTIONAL CONTROL CROSS-COUPLING EFFECTS AND HANDLING QUALITIES OF V/STOL AIRCRAFT
NRC-7778 N64-14203 06-22

RATIONAL METHOD FOR PREDICTION OF GEAR LOADS DURING LANDING OF V/STOL AIRCRAFT
ASD-TDR-62-555, VOL. 1 N64-14485 08-04

LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF SEMISPAN V/STOL TILT-WING CONFIGURATION WITH SINGLE ROTATING PROPELLER
NASA-TN-D-2180 N64-14729 08-04

HYPERSONIC AND SUPERSONIC WIND TUNNELS, GROUND EFFECT MACHINE, AND V/STOL MODEL TESTS
N64-17013 09-01

MODEL TESTING TO DETERMINE AERODYNAMIC STABILITY OF V/STOL AIRCRAFT N64-17015 09-04

HANDLING QUALITIES OF V/STOL AIRCRAFT - FLIGHT MECHANICS N64-18505 10-04

SIMULATION OF HELICOPTER & V/STOL AIRCRAFT - V/STOL ANALYSIS AND DERIVATION OF MOTION EQUATIONS
NAVTRADEVCEN-1205-2 N64-21244 14-10

V/STOL AIRCRAFT - COMPRESSIBLE AND INCOMPRESSIBLE EJECTORS
DFL-234 N64-21704 15-03

INTERLAMINAR SHEAR OF FILAMENT-WOUND REINFORCED PLASTICS
QPR-3 N64-22294 15-13

AERODYNAMIC CHARACTERISTICS OF JET V/STOL AIRCRAFT
ASME PAPER-864A N64-23378 16-04

RESEARCH SIMULATOR FOR STUDYING CONTROL AND DISPLAY PROBLEMS OF V/STOL AIRCRAFT
REPT.-2120-920002 N64-26659 18-04

V/STOL AIRCRAFT - HELICOPTERS AND CONFIGURATIONS OF PROPELLERS, DUCTED FANS, AND JETS
N64-27070 19-04

DYNAMIC TESTS OF V/STOL TRANSPORT AIRCRAFT
AIAA PAPER-64-619 N64-27646 19-04

V/STOL AIRCRAFT - HELICOPTER, PROPELLER, DUCTED FAN, AND TURBOJET AIRCRAFT HANDLING QUALITIES
NASA-RP-286 N64-28229 20-04

LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF LARGE-SCALE SEMISPAN V/STOL TILT-WING CONFIGURATION
NASA-TN-D-2412 N64-28325 20-03

FLIGHT CONTROL, VEHICLE STRUCTURES, DESIGN, SYSTEMS SUPPORT, AND WIND TUNNEL TEST PROGRAM OF X-22A TRI-SERVICE V/STOL AIRCRAFT
REPT.-2127-933006 N64-29718 21-04

WIND TUNNEL TEST RESULTS, WEIGHT CONTROL PROGRAM, AND ACOUSTIC NOISE TESTS OF X-22A TRI-SERVICE V/STOL AIRCRAFT
REPT.-2127-9330010 N64-29719 21-04

FABRICATION OF PARTS FOR MODEL X-22A TRI-SERVICE V/STOL AIRCRAFT
REPT.-2127-933011 N64-29720 21-04

ENGINEERING DRAWINGS AND SCALE MODEL TESTING OF X-22A TRI-SERVICE V/STOL AIRCRAFT
REPT.-2127-933017 N64-29721 21-04

STABILITY & CONTROL OF 4-PROPELLER, TILT-WING V/STOL SCALE MODEL TRANSPORT AIRCRAFT
NASA-TN-D-2443 N64-30096 21-04

WIND TUNNEL TESTS OF WING STALL, PERFORMANCE, AND LONGITUDINAL STABILITY & CONTROL OF LARGE MODEL V/STOL TILT WING TRANSPORT AIRCRAFT
NASA-TN-D-1057 N64-30995 22-04

HELICOPTER FLIGHT INVESTIGATION OF EFFECTS OF GROSS CHANGES IN STATIC DIRECTIONAL STABILITY ON V/STOL HANDLING
NASA-TN-D-2477 N64-31081 22-04

AERODYNAMICS OF TILT-WING PROPELLER DRIVEN V/STOL CONFIGURATION
NASA-TN-D-1586 N64-31221 22-03

DESIGN AND WIND TUNNEL TESTS ON X-22A TRI-SERVICE V/STOL AIRCRAFT
REPT.-2127-933007 N64-32297 23-04

X-22A TRI-SERVICE V/STOL AIRCRAFT - FREEZE CONFIGURATIONS, WIND TUNNEL TESTS, FLIGHT CONTROL SYSTEM REDESIGN, WEIGHT CONTROL, AND DUCT NOISE SPECIMEN TESTS
REPT.-2127-933009 N64-32298 23-04

DESIGN, PERFORMANCE, AND WEIGHT STUDIES OF X-22A V/STOL AIRCRAFT
REPT.-2127-933004 N64-32419 23-04

DESIGN WORK, PERFORMANCE, AND WEIGHT STUDIES OF X-22A V/STOL AIRCRAFT
REPT.-2127-933005 N64-32420 23-04

MECHANIZING MOTION EQUATIONS OF HELICOPTERS & V/STOL AIRCRAFT BY DIGITAL COMPUTERS
NAVTRADEVCEN-1205-3 N64-33525 24-10

VACUUM
SEMIAUTOMATIC RUPTURE MODULUS TESTER FOR VACUUM OR INERT ATMOSPHERE
NASA-RP-50 N64-10075 01-23

HOT ROLLING OF MOLYBDENUM IN VACUUM, ARGON, AND AIR
JPRS-21757 N64-10173 01-18

INSTRUMENTATION FOR SIMULTANEOUS MEASUREMENT OF SPECTRAL AND NORMAL EMITTANCE OF MATERIALS IN AMBIENT AND VACUUM ENVIRONMENT AT HIGH TEMPERATURE
WADD-TR-60-102 N64-10958 02-15

VACUUM TREATMENT FOR HIGH QUALITY, LOW SILICON BALL BEARING STEEL IN METALLURGICAL FACTORY
JPRS-22390 N64-11921 03-17

EVAPORATION RATES OF ORGANIC LIQUID AND SOLID LUBRICANTS IN VACUUM
NASA-TN-D-2081 N64-11992 03-19

FRICTION, WEAR, DECOMPOSITION MECHANISMS, AND EVAPORATION RATES OF POLYMER COMPOSITIONS IN VACUUM
NASA-TN-D-2073 N64-12105 03-19

LUNAR SOIL BEHAVIOR, & POSSIBLE EFFECTS OF VACUUM
N64-13710 05-29

VACUUM ULTRAVIOLET PHOTOIONIZATION DETECTOR
NASA-RP-32 N64-14858 06-15

DEPOSITION OF SILICON OR GERMANIUM FILMS ON POLYCRYSTALLINE INSULATING SUBSTRATES BY VACUUM EVAPORATION
AD-431749 N64-16990 09-25

COLLISIONLESS EXPANSION OF GASES OF FINITE AMOUNT INTO VACUUM - BOLTZMANN EQUATIONS
N64-17571 09-11

ELECTRICAL SLIP BAND EMPLOYING ROLLING CONTACT ELEMENT TESTED IN HARD VACUUM ENVIRONMENT
NASA-TN-D-2261 N64-17752 09-09

TIME-OF-FLIGHT STUDIES OF ELECTRONS IN VACUUM
ORNL-3484 N64-18055 10-23

ADSORPTION OF GASES ON SOLID SURFACES IN HIGH VACUUM
AFCRL-64-113 N64-18187 10-23

VACUUM TREATMENT OF METALS
JPRS-24170 N64-18529 11-17

PRECISION CASTING OF HEAT RESISTANT ALLOYS IN VACUUM N64-18531 11-17

HEAT TREATMENT OF MAGNETICALLY SOFT ALLOYS IN VACUUM N64-18533 11-17

SYNERGISTIC EFFECT OF ULTRAVIOLET AND LOW ENERGY ELECTRON RADIATION DAMAGE TO SURFACES IN VACUUM
N64-19362 12-23

EFFECT OF DEGREE OF VACUUM ON SLOW-BEND CREEP OF NIOBIUM-ZIRCONIUM ALLOY AT HIGH TEMPERATURE
ORNL-3569 N64-21298 14-18

THERMAL TREATMENT OF POLYETHYLENE TEREPHTHALATE IN VACUUM
NASA-TT-F-8889 N64-23129 16-07

VACUUM DEGASSING IN MANUFACTURE OF HIGH STRENGTH STEEL
DMIC-200 N64-23250 16-18

METHOD OF STUDYING HIGH ENERGY SECONDARY BEAMS IN VACUUM AND IN DIFFUSING MEDIUM
CERN-64-11 N64-23873 16-23

TENSILE PROPERTIES OF TUNGSTEN-RHENIUM AT HIGH TEMPERATURES IN VACUUM
NASA-CR-56462 N64-23945 16-18

SIMULATED EXTRUSIVE MAGMA SOLIDIFICATION IN VACUUM
N64-24056 16-29

EXTREMELY HIGH VACUUM TECHNOLOGY AND STUDY OF CLEAN SURFACES
NASA-CR-84 N64-24831 17-23

VACUUM PROBLEM OF ELECTRON STORAGE RINGS
LNF-64/19 N64-25665 17-23

NEAR AND VACUUM ULTRAVIOLET BAND SPECTRA
ARDD-005-12 N64-27141 19-07

FIELD EMISSION IN VACUUM VOLTAGE BREAKDOWN
TR-353 N64-30677 22-09

PROJECTIONS ON ELECTRODES AND THEIR EFFECT ON ELECTRIC BREAKDOWN IN VACUUM
R-192 N64-32974 24-09

CROSS CHECK STUDY OF VACUUM COMPATIBILITY OF POLYSTYRENE AND POLYMETHYLMETHACRYLATE - WEIGHT LOSS DETERMINATION
NASA-TM-X-53106 N64-33868 24-19

CHARGING OF CONDUCTING SPHERE IN CONCENTRIC

VACUUM BY THERMIONIC EMISSION - SQUID PROJECT
ILL-15-P N64-33946 24-23

VACUUM & NUCLEAR RADIATION EFFECTS ON RESISTANCE OF ENGINEERING MATERIALS FOR SPACE VEHICLES & REACTOR ACCESSORY HARDWARE
NASA-RP-349 N64-33987 24-17

VACUUM CHAMBER
MULTICHAMBER VACUUM CALORIMETER FOR MEASUREMENT OF HEMISPHERICAL EMITTANCE OF HIGH TEMPERATURE RADIATOR COATINGS N64-10957 02-15

TEMPERATURE DEPENDENCE OF HEMISPHERICAL EMITTANCE OF METAL AND ALLOY STRIPS IN 100- TO 1200-DEG C RANGE USING BLACKBODY VACUUM CHAMBER N64-10961 02-13

TESTING PRECISE MIRRORS OF ASTRONOMICAL INSTRUMENTS WITH VACUUM CHAMBER N64-13690 05-10

CONSTRUCTION OF GLASS VACUUM CHAMBER FOR VIEWING OF PLASMA-ELECTROMAGNETIC FIELD INTERACTION
NASA-CR-53107 N64-16746 08-10

GLASS VACUUM CHAMBER WITH ALUMINUM ELECTRODES FOR MEASURING X-RAY RADIATION FROM 0.4 TO 1,000,000 ROENTGENS PER MINUTE
FTD-TT-64-31/162 N64-23306 16-13

DEFLECTING AND FOCUSING CHARGED PARTICLES IN VACUUM CHAMBER BY MAGNET
CERN-64-24 N64-26529 18-23

CATALOG OF SPACE SIMULATION VACUUM CHAMBERS
ATC-ARTC-38 N64-28927 20-10

ELECTRONIC PERFORMANCE CHARACTERISTICS OF S-52 PROTOTYPE SPACECRAFT IN THERMAL VACUUM
NASA-TM-X-55039 N64-28929 20-32

LARGE VACUUM CHAMBERS FOR SIMULATION OF VERY HIGH ALTITUDES AND SPACE ENVIRONMENT N64-29881 21-10

THERMAL VACUUM TEST OF ORBITAL STATIC MOISTURE-REMOVAL FUEL CELL
APL-TDR-64-72 N64-30921 22-06

SOLAR REFLECTOR FOAMING TECHNOLOGY - FOAM RIGIDIZATION OF MIRRORS IN VACUUM CHAMBER
GER-11594 N64-32188 23-17

INFLUENCE OF RESIDUAL GAS ATMOSPHERE IN SPACE CHAMBERS ON NEUTRAL EFFLUX AND CRITICAL TEMPERATURE OF TUNGSTEN IONIZERS
AIAA PAPER 64-693 N64-32724 24-27

VACUUM CHAMBER DESIGN FOR ELEVATED TEMPERATURE FATIGUE TESTING OF REFRACTORY METAL ALLOYS
NASA-CR-54203 N64-34000 24-18

VACUUM DEPOSITION
DETERMINING KINETICS OF VAPORIZATION AND VAPOR PRESSURE OF METAL POWDERS - METHOD AND APPARATUS FOR VACUUM DEPOSITION N64-11009 02-13

USE OF VACUUM-DEPOSITED ALUMINUM LEADS TO BASE AND EMITTER ELECTRODES OF HIGH-FREQUENCY GERMANIUM P-N-P TRANSISTORS
TR-1100 N64-12710 04-09

BIBLIOGRAPHY - VACUUM-DEPOSITED THIN FILM CONDUCTORS, CAPACITORS, RESISTORS, & CONNECTORS
SB-63-15 N64-13075 04-09

TECHNIQUES FOR VACUUM DEPOSITING SINGLE CRYSTAL SEMICONDUCTOR FILMS OF GERMANIUM OR SILICON ON INSULATING SUBSTRATES
AD-427338 N64-13969 05-25

BORON, BORON CARBIDE, & TITANIUM CARBIDE FILAMENTS PRODUCED BY VACUUM DEPOSITION - TENSILE TESTING OF SELECTED FILAMENT MATERIALS
BMPR-1 N64-14676 06-19

DEFLECTRON ENGINEERING - REDESIGN OF NARROW-ANGLE DEFLECTRON, PROCESSING CERAMIC SUBSTRATE CONES, &

VACUUM-METALLIZING TECHNIQUES
AD-403324 N64-15369 07-09

THIN FILM VACUUM DEPOSITED JUNCTION CONDUCTORS, SEMICONDUCTORS, AND INSULATORS
NASA-CR-53102 N64-16739 08-25

EPITAXIAL GROWTH OF THIN FILMS DEPOSITED BY CATHODIC SPUTTERING & VACUUM EVAPORATION
RTD-TDR-63-4264 N64-21832 15-25

HIGH TEMPERATURE HEATERS FORMED BY VACUUM DEPOSITION ON PLASMA-FLAME SPRAYED DIELECTRIC SUBSTRATES OF ALUMINUM OXIDE
ASD-TDR-62-662 N64-24097 16-13

VACUUM DEPOSITION OF ALUMINUM AND POLISHING MACHINE FOR QUARTZ CRYSTAL RESONATOR FABRICATION
REPT.-2 N64-28151 20-17

VAPOR AND VACUUM DEPOSITION TECHNIQUES FOR DEVELOPMENT OF HIGH STRENGTH FILAMENTARY MATERIALS
NASA-CR-58696 N64-28837 20-17

GEIGER COUNTER AND X-RAY FILM TECHNIQUES TO STUDY CRYSTALLINE STRUCTURES OF THIN TITANIUM FILMS AND COATINGS FORMED BY VACUUM DEPOSITION
REPT.-8251 N64-33792 24-17

VACUUM EFFECT
EFFECTS OF VACUUM & SPACE RADIATION ON ELASTOMERS AND PLASTICS FOR COATINGS, SEALANTS, INSULATION, & LUBRICATION
RSIC-150, VOL.1 N64-27479 19-19

VACUUM EQUIPMENT
PLATING OF REFRACTORY METAL ON VACUUM ROLLING MILL
FTD-MT-63-98/1&2&3&4 N64-14381 06-17

DIFFUSION WELDING APPLIED TO ELECTROVACUUM APPARATUS N64-24257 17-18

VACUUM ADAPTATION OF BASEPLATE MATERIALS TO DENTAL CASTS
SAM-TDR-64-51 N64-31054 22-16

VACUUM FURNACE
HIGH TEMPERATURE PROPERTIES OF CAST TUNGSTEN PRODUCED BY ELECTRIC-ARC MELTING IN VACUUM FURNACE N64-12446 04-18

STRUCTURAL DEFECTS OF GERMANIUM AND HIGH TEMPERATURE LABORATORY FURNACE
JPRS-22442 N64-12773 04-01

CRUCIBLE HIGH-TEMPERATURE VACUUM FURNACE WITH TUNGSTEN HEATING ELEMENT FOR THERMOPHYSICAL INVESTIGATIONS TO 2500-DEG C N64-12775 04-10

MELTING AND POURING OF RUST RESISTANT TOOL STEELS IN VACUUM INDUCTION FURNACES N64-18530 11-17

ELECTRIC VACUUM FURNACE WITH DEVICE FOR LOADING SPECIMENS WITHOUT DISTURBING VACUUM N64-23843 16-33

VACUUM ARC FURNACES & ELECTRONIC EQUIPMENT FOR MELTING
JPRS-24753 N64-24576 17-10

VACUUM ARC FURNACE DESIGN N64-24577 17-10

ELECTRONIC MELTING UNITS FOR VACUUM ARC FURNACE N64-24578 17-17

VACUUM GAUGE
RESPONSE OF MAGNETRON AND VACUUM GAUGES ABOARD EXPLORER XVII MEASURING TEMPERATURE, PRESSURE, AND DENSITY OF UPPER ATMOSPHERE
NASA-TN-D-2146 N64-15796 07-15

CALIBRATION METHODS FOR HIGH AND ULTRAHIGH VACUUM GAUGES N64-28208 20-15

PULSE COMPRESSION THERMAL CONDUCTANCE VACUUM GAUGE FOR LOW PRESSURE USE
FTD-TT-63-151/162 N64-32510 23-15

VACUUM MELTING
PREPARATION OF HIGH PURITY RHENIUM BY VACUUM HEATING AND ELECTROLYTIC METHODS
JPRS-17539 N64-10562 01-18

TUNGSTEN BASE ALLOYS PREPARED BY VACUUM-ARC-CASTING PROCESS
AD-424267 N64-12245 03-18

STATISTICAL ANALYSIS OF VACUUM MELTING AND ARC REMELTING OF HIGH STRENGTH STEEL
ASD-TR-7-678/V/ N64-14503 06-18

VACUUM ARC MELTING OF EXPERIMENTAL REFRACTORY METALS
RTD-TDR-63-4089 N64-14510 06-17

INFLUENCE OF VACUUM MELTING ON MECHANICAL PROPERTIES OF STEELS N64-18532 11-18

WELDING OF NIOBIUM BY VACUUM ARC AND ELECTRON BEAM MELTING N64-20656 13-17

VACUUM MELTING AND CASTING OF NICKEL-BASED ALLOYS FOR GAS TURBINE BLADES N64-31518 23-17

HYDROCARBONS, ESTER BASE OIL, AND POLYPHENYL ETHER FOR LUBRICATING VACUUM MELTED STEEL BALL BEARINGS AT HIGH SPEEDS AND TEMPERATURES
NASA-CR-59283 N64-33330 24-17

VACUUM SPECTROSCOPY
VACUUM SPECTROSCOPY FOR CHEMICAL COMPOSITION OF CELESTIAL BODIES
JPRS-26769 N64-32128 23-05

VACUUM SYSTEM
SIMILARITY CONDITIONS OF VACUUM ELECTRONIC SYSTEMS APPLIED TO SIMULATION OF HIGH-POWER ELECTRONIC DEVICES N64-12727 04-09

WELDING TITANIUM AND ITS ALLOYS BY DIFFUSION UNDER VACUUM N64-13420 05-17

CORROSION STABILITY OF TITANIUM ALLOYS JOINED BY DIFFUSION WELDING UNDER VACUUM N64-13421 05-07

IMPROVEMENT OF ION SOURCE AND VACUUM SYSTEM OF MASS SPECTROMETER
NASA-CR-55774 N64-16033 07-07

OUTGASSING OF STRUCTURAL MATERIALS AND SMALL TEST SAMPLES INSTALLED IN GLASS VACUUM SYSTEM
AEDC-TDR-64-53 N64-17959 10-19

VACUUM SYSTEM AND DISTILLATION APPARATUS TO CONCENTRATE SOLUTIONS OF THERMAL DEGRADATION PRODUCTS RESULTING FROM GAMMA RADIATION IN RESINS
K-1594 N64-20481 13-07

BARIUM, GOLD, AND SILVER FILM LUBRICATION OF MINATURE BALL BEARINGS FOR VACUUM SYSTEM USE
NASA-TN-D-2304 N64-21268 14-17

DEVELOPMENT OF POLYURETHANE FOAM IN VACUUM ENVIRONMENT N64-23722 16-19

PREDICTION OF VACUUM LEVELS FOR UNPRESSURIZED COMPARTMENTS DURING LUNAR EXCURSION MODULE MISSION
RN-178L N64-24913 17-11

PLASMA PHYSICS, ELECTRON-CYCLOTRON HEATING, CROSS-SECTION MEASUREMENTS, ION AND ATOMIC BEAMS, MAGNETICS AND SUPERCONDUCTIVITY, & VACUUM SYSTEMS
ORNL-3652 N64-25293 17-23

VACUUM SYSTEM FOR MASS SPECTROMETRIC ANALYSES OF ATMOSPHERE AT PRESSURES ABOVE CRITICAL VALUE N64-26969 19-15

PORTABLE ACCELERATING NEUTRON TUBE OF UNIVERSAL ACTION - VACUUM SYSTEM FOR GAS PUMPING AND ION SOURCE N64-31785 23-23

HIGH VACUUM SPARK DISCHARGE PRODUCTION OF ULTRAVIOLET RADIATION
ML-TDR-64-259 N64-32152 23-23

ELECTROSTATIC POWER GENERATOR - VACUUM INSULATION AND EXCITATION TRANSFORMER
QTPR-3 N64-33886 24-06

VACUUM TUBE
STATIC & DYNAMIC ANODE-GRID CHARACTERISTICS OF VACUUM TUBE AT LARGE VOLTAGE AMPLITUDES N64-12740 04-09

LITERATURE SURVEY & BIBLIOGRAPHY OF HIGH VOLTAGE BREAKDOWN IN VACUUM AND IN OIL - APPLICATION TO HIGH POWER VACUUM TUBES
BMI-197-12-1 N64-13602 05-19

IMPROVED PRODUCTION METHODS FOR NUVISTOR TUBES
QPR-6 N64-14989 06-17

HIGH POWER INTEGRAL CIRCUITED TETRODE
AD-426012 N64-19071 11-09

TEMPERATURE EFFECTS ON STABILITY OF TRANSISTORTUBE RC NETWORK OSCILLATOR N64-29128 21-15

FABRICATION AND TESTING OF HIGH-POWER INTEGRAL CIRCUITED TETRODES
QITR-6 N64-31194 22-09

VACUUM TUBE OSCILLATOR
ENGINEERING ANALYSIS OF VACUUM TUBE OSCILLATORS N64-24527 17-09

VACUUM ULTRAVIOLET
MODIFICATION OF FLASH PHOTOLYSIS APPARATUS FOR USE IN VACUUM ULTRAVIOLET STUDY OF NITROGEN FLUORIDES
TM-1496 N64-16499 08-07

REFLECTION COEFFICIENT OF SOLIDS IN VACUUM ULTRAVIOLET
NASA-CR-53114 N64-16760 08-25

FABRICATION OF VACUUM ULTRAVIOLET SPECTROGRAPHS
ARL-63-233 N64-16814 08-23

SPECTRUM OF HELIUM CATHODE DISCHARGE TUBE IN VISIBLE AND VACUUM ULTRAVIOLET REGIONS
MATT-236 N64-17495 09-24

ABSORPTION SPECTRUM OF PINK AFTERGLOW OF NITROGEN IN VACUUM ULTRAVIOLET N64-18166 10-24

QUANTUM EFFICIENCY OF SILICON OVER PHOTON ENERGY RANGE IN VACUUM ULTRAVIOLET
NASA-CR-53104 N64-18301 10-25

VACUUM ULTRAVIOLET PHOTOLYSIS OF CARBON DIOXIDE USING KRYPTON, XENON, AND HYDROGEN LIGHT SOURCES
NASA-CR-53748 N64-19173 11-07

LOW VOLTAGE SOURCES OF VACUUM ULTRAVIOLET
FTD-TT-62-1913/1&2 N64-22410 15-23

OPTICAL PROPERTIES OF ALKALI HALIDES UNDER VACUUM ULTRAVIOLET RADIATION
NASA-CR-58134 N64-26595 18-25

SILICON PHOTODIODE VACUUM ULTRAVIOLET DETECTOR
NASA-CR-58055 N64-26805 18-15

RULING TECHNIQUES IN PRODUCTION OF DIFFRACTION GRATINGS FOR VACUUM ULTRAVIOLET
AFCRL-64-398 N64-26923 18-15

PERTURBATION OF ABSORPTION SPECTRA OF CRYSTALLINE ARGON AND KRYPTON IN VACUUM ULTRAVIOLET BY INTERSTITIAL ATOMS OF XENON
QTSR-1 N64-27196 19-23

PILE-OF-PLATES POLARIZER FOR VACUUM ULTRAVIOLET
NASA-TM-X-55022 N64-27256 19-15

PERTURBATION OF SPECTRAL ABSORPTION LINES IN VACUUM ULTRAVIOLET BY SOLID MATRICES
AD-601539 N64-27775 19-07

SPECTRAL RESPONSE OF VACUUM ULTRAVIOLET ION CHAMBERS FOR VARIOUS FILLING GASES AND WINDOW MATERIALS N64-28077 20-23

QUANTUM EFFICIENCY OF SILICON IN VACUUM ULTRAVIOLET FROM PHOTODIODE RESPONSE

N64-30470 22-25

VALENCE
VALENCE BOND METHOD APPLIED TO JAHN-TELLER EFFECT
AD-428802 N64-14472 06-25

STUDY OF VALENCE BAND OF GERMANIUM BY CYCLOTRON RESONANCE N64-27188 19-25

VALVE
BUTTERFLY VALVES - BIBLIOGRAPHY
BIB-14 N64-14079 05-17

LIQUID METAL VALVES FOR LITHIUM COOLED REACTOR EXPERIMENT /LCRE/
PWAC-401, PT. II N64-19904 12-23

ROCKET ENGINE VALVE POPPET AND METAL-TO-METAL SEAT DESIGN DATA
R-5494 N64-21411 14-17

CONTROL CHARACTERISTICS OF VORTEX VALVES & BASIC OPERATING MECHANISM OF FLOW FIELD N64-23813 16-11

VALVE DESIGN, BEARING DRAG, SEAL, AND THRUST STUDIES FOR HIGH CHAMBER PRESSURE ENGINES
NASA-CR-56306 N64-23943 16-27

ACOUSTICALLY EXCITED PROPELLANT UTILIZATION VALVES REDESIGNED FOR COMPATIBILITY IN MA-5 PROPULSION SYSTEM
R-5585 N64-25716 17-26

ULTRAHIGH VACUUM VALVE
PDM-12077A N64-26103 18-10

SOLID STATE LIGHT VALVE FOR PROJECTION DISPLAY
RADC-TDR-64-192 N64-26232 18-25

ANTI-BLAST VALVE FOR SHELTER VENTILATION SYSTEM
C-63584 N64-31123 22-10

VALVES AND OTHER COMPONENTS FOR AEROSPACE FLUID SYSTEMS
RPL-TDR-64-25 N64-32170 23-17

ADDITION OF BACK PRESSURE REGULATOR AND THREE-WAY VALVE FOR MODIFICATION OF DEADWEIGHT BALANCE SYSTEM
NASA-CR-59232 N64-33684 24-10

VAN ALLEN BELT
PROTON ENERGY SPECTRUM VARIATION WITH POSITION IN INNER VAN ALLEN BELT
NASA-RP-11 N64-11200 02-28

ESTIMATES OF RADIATION DOSES IN SPACE FROM VAN ALLEN BELT RADIATION, GALACTIC COSMIC RADIATION, & SOLAR COSMIC RADIATION N64-11648 03-28

GEOMAGNETIC VARIATIONS FROM VAN ALLEN BELT RING CURRENTS N64-12405 03-12

PARTICLE MOTION IN VAN ALLEN RADIATION BELTS N64-15283 07-28

HAZARDS ASSOCIATED WITH VAN ALLEN PROTONS AND SOLAR FLARES
AD-428574 N64-15420 07-28

ALFVEN THEORY FOR INTERPRETING VAN ALLEN BELTS AND MOTION OF CHARGED PARTICLES IN MAGNETIC FIELD
AFCRL-64-226 N64-16491 08-28

LOW LEVEL GEOMAGNETIC RING EFFECTS IN VAN ALLEN BELT
NASA-CR-56010 N64-17731 09-28

VAN ALLEN TRAPPED RADIATION BELTS & EFFECT OF SPACE RADIATION ON SNAP REACTOR SYSTEMS - BIBLIOGRAPHY
NAA-SR-7849 N64-20529 13-12

PROTON FLUXES ALONG LOW ACCELERATION TRAJECTORIES THROUGH VAN ALLEN BELT - RADIATION HAZARD FOR MANNED INTERPLANETARY SPACE FLIGHTS
NASA-RP-193 N64-21281 14-28

CHANGES IN VAN ALLEN BELT PROTON POPULATION DURING SOLAR CYCLE
NASA-TM-X-55013 N64-27250 19-23

COMPUTER PROGRAM FOR EVALUATING SPACE RADIATION HAZARDS FROM ENERGETIC PROTONS AND ELECTRONS IN VAN ALLEN BELT
NASA-CR-58293 N64-29364 21-20

CHARGED PARTICLE RESEARCH - TRAPPED VAN ALLEN RADIATION AND INTERPLANETARY COSMIC RAYS N64-29400 21-12

BIBLIOGRAPHY ON EFFECTS OF VAN ALLEN RADIATION BELTS ON ELECTRONIC MATERIALS
PDC-SEARCH-63-003 N64-32057 23-23

VAN DE GRAAFF ACCELERATOR
SIX HUNDRED KILOVOLT ELECTROSTATIC VAN DE GRAAFF ACCELERATOR
JPRS-25692 N64-27322 19-23

FABRICATION OF CONTROLLED-JUNCTION SOLAR CELLS BY IMPLANTATION OF DOPING IONS INTO BULK SILICON BY VAN DE GRAAFF ACCELERATOR N64-29164 21-06

X-RAYS PRODUCED BY BREMSSTRAHLUNG ON THICK TARGET WITH 1.2 MEV ELECTRONS - INTENSITY DISTRIBUTION AROUND VAN DE GRAAFF ACCELERATOR
LFEN.7 /GAMMA, DELTA/ N64-31032 22-23

ION BEAM ENERGY STABILIZATION OF VAN DE GRAAFF GENERATOR N64-33714 24-23

VANADIUM
LATTICE VIBRATION SPECTRUM OF VANADIUM
EUR-366.E N64-10252 01-23

KAZAKHSTAN ORES AS POSSIBLE SOURCES OF VANADIUM METAL, ALLOYS, AND COMPOUNDS, AND APPROPRIATE ORE PROCESSING METHODS
JPRS-21973 N64-10330 01-18

DIFFUSION OF TITANIUM-44 AND VANADIUM-48 IN TITANIUM
ORNL-3616 N64-21830 15-18

DIFFUSION IN BODY-CENTERED CUBIC METALS - ZIRCONIUM, VANADIUM, NIOBIUM AND TANTALUM
ORNL-3617 N64-22948 16-18

ELECTRON GUN FOR VAPORIZING MATERIAL AT HIGH MELTING POINT - PRODUCTION OF VANADIUM AND NIOBIUM THIN FILMS
LNF-64/9 N64-25669 17-15

EFFECT OF HYDROSTATIC PRESSURE ON ELECTRON PARAMAGNETIC RESONANCE SPECTRUM OF CHROMIUM AND VANADIUM IONS IN SAPPHIRE
REPT.-06029-1-T N64-27858 19-23

VANADIUM AND URANIUM SEPARATION FROM HYDROCHLORIC ACID SOLUTIONS USING ANIONITES N64-31419 23-07

EFFECTS OF YTTRIUM & RARE EARTH METAL ADDITIONS ON ELECTROREFINED VANADIUM
BM-RI-6553 N64-33436 24-18

ISOTHERMAL RECRYSTALLIZATION OF ELECTROREFINED VANADIUM
BM-RI-6547 N64-33464 24-18

VANADIUM ALLOY
DISPERSION STRENGTHENED VANADIUM-NIOBIUM ALLOYS PREPARED BY ARC-MELTING
IITRI-B6007-5 N64-12126 03-18

FABRICATION CHARACTERISTICS OF ALUMINUM-VANADIUM-MOLYBDENUM-TITANIUM BASE ALLOY
A248 N64-13102 04-18

HIGH TEMPERATURE CREEP ANALYSIS OF VANADIUM-NIOBIUM BASE ALLOYS
IITRI-B6007-6 N64-13954 05-18

HIGH TEMPERATURE OXIDATION PROTECTIVE COATINGS FOR VANADIUM-BASE ALLOYS
IITRI-B6019-1 N64-14007 05-19

VANADIUM ALLOY DEVELOPMENT AND MECHANICAL PROPERTY EVALUATION
IITRI-8231-10 N64-15567 07-18

CHROMIUM-NIOBIUM-VANADIUM ALLOYS
N64-17044 09-18

HIGH TEMPERATURE OXIDATION PROTECTIVE COATINGS FOR VANADIUM-BASE ALLOYS
IITRI-86019-2 N64-17477 09-18

VANADIUM ALLOY STUDIES TO IMPROVE CREEP AND STRESS RUPTURE PROPERTIES
IITRI-86021-1 N64-20565 13-18

OXIDATION PROTECTIVE COATINGS FOR VANADIUM-BASE ALLOYS
IITRI-86019-3 N64-21556 15-18

TEMPERATURE EFFECT ON FRACTURE STRENGTH OF TITANIUM-ALUMINUM-VANADIUM ALLOY SHEET
SM-44640 N64-22973 16-18

MECHANICAL PROPERTIES DATA CENTER - TITANIUM-ALUMINUM-VANADIUM ALLOY
AD-437627 N64-25033 17-18

STRUCTURAL DIAGRAM OF VANADIUM-CERIUM SYSTEM
FTD-TT-62-1761/1 N64-26210 18-18

MECHANICAL PROPERTIES OF IRON-COBALT-VANADIUM ALLOY
DMS-63-23 N64-26618 18-18

EFFECT OF HYDROGEN CONTENT ON MECHANICAL PROPERTIES OF TITANIUM-6 ALUMINUM-4 VANADIUM BAR AT MINUS 423 DEG F
SM-44661 N64-27516 19-18

HIGH TEMPERATURE OXIDATION RESISTANT PROTECTIVE COATINGS FOR VANADIUM ALLOYS
IITRI-86019-4 N64-27861 19-18

IMPROVING SHORT TIME CREEP PROPERTIES OF VANADIUM ALLOYS
IITRI-86021-3 N64-29904 21-18

EFFECT OF ALLOY COMPOSITION, DEFORMATION TEMPERATURE, HEAT TREATMENT, AND INTERSTITIAL CONTAMINATION ON TWINNING TENDENCY OF NIOBIUM-VANADIUM ALLOYS
ORNL-3678 N64-29953 21-18

ELECTRON PROBE ANALYSIS OF BETA-TITANIUM-VANADIUM, BETA-TITANIUM-NIOBIUM, AND CHROMIUM-VANADIUM DIFFUSION SYSTEMS
NRL-6141 N64-29962 21-18

PHASE TRANSFORMATIONS IN IRON-VANADIUM ALLOYS
JPRS-26338 N64-30670 22-18

CREEP PROPERTIES OF VANADIUM ALLOYS AT HIGH TEMPERATURES - EFFECTS OF TANTALUM ADDITIONS
IITRI-86021-2 N64-32098 23-18

PACK SILICIDE AS HIGH TEMPERATURE OXIDATION PROTECTIVE COATING FOR VANADIUM ALLOYS
IITRI-86019-5 N64-32200 23-17

TITANIUM, VANADIUM, AND CHROMIUM ALLOY COMPOSITE ROCKET MOTOR CASE
PWA-2364 N64-33649 24-27

VANADIUM CARBIDE
MOLTEN NICKEL WETTABILITY OF PRESSED POWDERED CARBIDE ALLOYS - NIOBIUM & VANADIUM CARBIDES, AND NIOBIUM & TITANIUM CARBIDES
N64-13699 05-19

VANADIUM COMPOUND
REDUCTION OF VANADIUM COMPOUNDS IN BOMB REACTORS TO INCREASE YIELD & PURITY
BM-RI-6374 N64-15922 07-17

STRESS EFFECTS ON INSULATOR TO METAL TRANSITIONS IN VANADIUM COMPOUNDS
HP-11 N64-16956 09-25

MIXED METAL DIBORIDES OF TITANIUM-VANADIUM, TITANIUM-NIOBIUM, AND TITANIUM-TANTALUM
BM-RI-6407 N64-17715 09-19

INELASTIC SCATTERING OF COLD NEUTRONS MEASURED ON VANADIUM HYDRIDE
EUR-522.D N64-26067 18-23

VANADIUM OXIDE
VANADIA CATALYZED BURNER USING LEADED GASOLINE AS FUEL FOR THERMOELECTRIC GENERATOR
Q-82088-2 N64-13756 05-26

TOXICOLOGY OF VANADIUM TRIOXIDE DUST, GERMANIUM TETRACHLORIDE, AND ALIPHATIC AMINES
JPRS-25116 N64-23366 16-16

EFFECT OF VANADIUM TRIOXIDE DUST ON ORGANISM - TOXICOLGY
N64-23368 16-16

VANE
OPTIMIZATION OF FLIGHT COURSE ADJUSTMENT WITH VANES UNDER TIME-DEPENDENT DISTURBANCES
N64-14614 08-04

INFLUENCE OF NUMBER OF VANES ON CENTRIFUGAL WHEEL WITH SINGLE-STAGE CASCADE
N64-23496 16-17

GYROSCOPIC EFFECT IN BALL BEARINGS OF FUSE ARMING VANE
NOLTR-63-167 N64-26240 18-17

HEAT TRANSFER AND TEMPERATURE FIELDS OF GAS TURBINE VANES
N64-27128 19-13

EFFECTIVENESS OF THREE EXIT VANE CASCADE CONFIGURATIONS FOR THRUST VECTORING
NASA-TN-D-1688 N64-31080 22-03

SCREEN AND SPLITTER VANE ARRANGEMENTS FOR PREVENTING FLOW SEPARATION IN WIDE-ANGLE CONICAL DIFFUSERS
TN-AE-24-64 N64-32013 23-03

VANGUARD III SATELLITE
EVALUATION OF GEOMAGNETIC FIELD EQUATIONS USING JENSEN-WHITAKER GAUSSIAN COEFFICIENTS FOR 1955 - COMPARISON WITH VANGUARD III OBSERVATIONS
NASA-TM-X-51072 N64-10298 01-12

WHISTLERS OBSERVED BY VANGUARD III SATELLITE
NASA-TN-D-2313 N64-24587 17-08

VANGUARD SATELLITE
OBSERVATIONS OF SATELLITES - EXPLORER I AND VII, VANGUARD I, II, AND III, AND TRANSIT 1B
NASA-CR-52454 N64-10141 01-32

ORBITAL ELEMENTS FOR EXPLORER AND VANGUARD SATELLITES AND ECHO I SATELLITE
NASA-CR-55853 N64-16721 08-32

EPHEMERIS OF EXPLORER AND VANGUARD SATELLITE OBSERVATIONS
NASA-CR-59174 N64-33116 24-08

VAPOR
DETECTION INSTRUMENTS FOR TOXIC GASES, VAPORS, AND DUSTS
JPRS-21771 N64-10205 01-16

SODIUM VAPOR TRAIL STUDY OF TURBULENCE IN THE UPPER ATMOSPHERE
NASA-CR-52751 N64-11298 02-12

DIGITAL COMPUTER USED TO DETERMINE POSITION OF LUMINOUS VAPOR TRAIL OR CLOUD
AFCRL-64-225 N64-16565 08-21

POTASSIUM-STEAM BINARY VAPOR CYCLE FOR NUCLEAR POWER PLANT
ORNL-3584 N64-21041 14-06

ELECTROSTATIC FIELDS APPLIED TO INCREASE HEAT TRANSFER COEFFICIENT IN CONDENSATION OF VAPOR
RTD-TDR-63-4008 N64-21178 14-13

VAPOR PRESSURIZATION SYSTEM FOR USE WITH LIQUID PROPELLANTS
REPT.-8290-SS N64-22009 15-06

BARIUM VAPOR FILLED THERMIONIC ENERGY CONVERTERS
N64-22991 16-09

SEALING TECHNIQUES FOR HIGH SPEED ROTATING SHAFTS OPERATING IN HIGH TEMPERATURE LIQUID METALS AND VAPORS
QR-8 N64-27918 20-17

BALLISTIC MISSILE SYSTEM FOR DETECTION OF HAZARDOUS VAPORS
AD-420350 N64-32391 23-06

HEAT TRANSFER STUDIES OF VAPOR CONDENSING AT HIGH VELOCITIES IN SMALL, STRAIGHT TUBES
NASA-CR-124 N64-32433 23-13

HEAT TRANSFER STUDIES OF VAPOR CONDENSING AT HIGH VELOCITIES IN STRAIGHT TUBES
NASA-CR-58838 N64-33037 24-13

EPITAXIAL VAPOR ANALYZER SYSTEM FOR MONITORING GAS PHASE COMPOSITIONS
AFCRL-64-582 N64-33932 24-10

VAPOR DEPOSITION
REINFORCED METAL COMPOSITE PREPARATION BY ELECTRO-DEPOSITION AND VAPOR DEPOSITION OF METALS AND OXIDES ON METAL FIBERS N64-16315 08-18

SORPTION OF GASES BY VAPOR-DEPOSITED TITANIUM FILMS
ORNL-3481 N64-16526 08-23

BIPHENYL LIQUID HEAT TRANSFER AND VAPOR DEPOSITION
IDO-11006 N64-16552 08-13

ELECTROFORMING, ELECTROCOMBINATION, AND CHEMICAL VAPOR DEPOSITION OF NIOBIUM-TUNGSTEN ALLOY
ML-TDR-64-26 N64-18564 11-17

HOT ELECTRON EMITTERS - VAPOR DEPOSITION OF CADMIUM SULFIDE & PHOTOELECTRIC MEASUREMENT OF HOT ELECTRON RANGE IN GOLD
AFCRL-64-134 N64-18604 11-25

SILICON CARBIDE AND TITANIUM CARBIDE FILAMENT STUDY BY VAPOR DEPOSITION TECHNIQUES
BMPR-2 N64-18902 11-19

COMPUTER PROGRAM FOR THERMODYNAMIC ANALYSIS OF CHEMICAL REACTIONS IN TUNGSTEN AND RHENIUM VAPOR PLATING
UCRL-7667 N64-20430 13-20

VAPOR DEPOSITED GRAPHITE
WADD-TR-61-72, VOL. XXXVII N64-24874 17-18

VAPOR DEPOSITION OF TUNGSTEN BY HYDROGEN REDUCTION OF TUNGSTEN HEXAFLOORIDE AND EXAMINATION BY X-RAY DIFFRACTION, METALLOGRAPHY, & ELECTRON MICROSCOPY
ORNL-3662 N64-28245 20-18

FEASIBILITY OF LARGE VOLUME SUPERCONDUCTING MAGNET USING VAPOR DEPOSITED NIOBIUM STANNIDE RIBBON
NASA-CR-54061 N64-28461 20-23

VAPOR AND VACUUM DEPOSITION TECHNIQUES FOR DEVELOPMENT OF HIGH STRENGTH FILAMENTARY MATERIALS
NASA-CR-58696 N64-28837 20-17

VAPOR DEPOSITION OF BORIDES OF TITANIUM, HAFNIUM, AND ZIRCONIUM
R64SD46 N64-29433 21-07

VAPOR-PLATING OF TUNGSTEN COATINGS FOR ROCKETS BY HYDROGEN REDUCTION
RR-TR-64-6 N64-30888 22-18

VAPOR DEPOSITION OF TUNGSTEN COATING ON GRAPHITE- AND RHENIUM-LINED GRAPHITE ROCKET NOZZLES
BM-RI-6464 N64-32418 23-17

ROCKET NOZZLE MATERIAL DEVELOPMENT - VAPOR DEPOSITION OF TUNGSTEN AND TANTALUM, AND TUNGSTEN CASTING N64-32696 24-17

PHOTOVOLTAIC PROPERTIES OF VAPOR DEPOSITED POLYCRYSTALLINE GALLIUM ARSENIDE THIN FILMS
N64-32728 24-06

VAPOR GENERATOR
AEROSOL-FREE VAPOR GENERATION FROM LOW VAPOR PRESSURE LIQUIDS IN LARGE AIR FLOWS
TN-119 N64-30817 22-18

VAPOR PHASE
VAPOR PHASE HYDROLYSIS OF PENTABORANE-9
AMRL-TDR-63-129 N64-16800 08-07

HIGH TEMPERATURE VAPOR PHASE THERMODYNAMICS OF LIGHT METAL COMPOUNDS
C-64362, NO. 8 N64-17459 09-13

VAPOR PHASE GROWTH OF SINGLE CRYSTALS
AFCRL-64-57 N64-17920 10-25

VAPOR PHASE IN LIQUID METAL CORROSION PROCESSES
N64-20796 14-13

KINETICS AND MECHANISMS OF CONDENSATION AND HOMOGENEOUS NUCLEATION FROM VAPOR PHASE
REPT.-5515-F N64-23140 16-23

THERMOPHYSICAL PROPERTIES OF SODIUM AND POTASSIUM AND THEIR VAPORS
NRL-6128 N64-29959 21-18

VAPOR-PHASE REACTIONS OF ORGANIC COMPOUNDS WITH OXYGEN
AD-603096 N64-30800 22-07

CONTINUOUS FORMATION OF REFRACTORY FIBERS AND WHISKERS BY VAPOR PHASE PROCESS
AMRA-CR-63-03/4 N64-30819 22-07

VAPOR PRESSURE
MOLECULAR FLOW AND EFFUSION PROCESS IN MEASUREMENT OF VAPOR PRESSURES
ASD-TDR-63-754, PT. 1 N64-11444 03-23

VAPOR PRESSURE OF ALKALI METALS AT HIGH TEMPERATURES N64-11974 03-18

VAPOR PRESSURE AND EVAPORATION RATE OF VARIOUS SUBSTANCES IN AIR AND DETERMINATION OF SAFETY HAZARDS OF TOXIC SUBSTANCES
FTD-TT-63-1044/1&2 N64-12626 04-23

VAPOR PRESSURE OF INDIUM SULFIDES AS FUNCTIONS OF COMPOSITION AND TEMPERATURE - X-RAY DIFFRACTION & MASS SPECTROMETRIC DETERMINATION
UCRL-10857 N64-13213 04-19

VAPOR PRESSURE OF INDIUM AS FUNCTION OF TEMPERATURE
LA-2995 N64-14402 06-19

VAPOR PRESSURE, HEAT OF FORMATION, & SUBLIMATION OF NITROGEN & FLUORINE
MR-15 N64-14404 06-19

TORSION-EFFUSION APPARATUS FOR MEASURING VAPOR PRESSURE
REPT.-63-3891 N64-14645 06-23

VAPOR PRESSURE OF TUNGSTEN CHLORIDE AND HAFNIUM IODIDE BY METAL DIAPHRAGM TECHNIQUE
BM-RI-6367 N64-15606 07-19

VAPOR PRESSURES OF SEVERAL AMINO ACIDS DETERMINED BY KNUDSEN CELL EFFUSION METHOD
IS-790 N64-15852 07-07

VAPOR PRESSURE CONTROL TECHNIQUE FOR REMOVAL OF BYPRODUCT WATER FROM HYDROGEN-OXYGEN FUEL CELLS
NASA-CR-55778 N64-16274 08-06

MEASUREMENT OF SATURATED VAPOR PRESSURE OF CHROMIUM TO DETERMINE THERMODYNAMIC PROPERTIES OF CHROMIUM AND COBALT N64-17032 09-13

VAPOR PRESSURE AND HEAT OF SUBLIMATION OF BARIUM FLUORIDE
UCRL-11124 N64-17263 09-19

SERVOMECHANICAL SYSTEM FOR MEASURING VAPOR PRESSURE OF METAL HALIDE
BM-RI-6421 N64-18511 10-15

VAPOR PRESSURE OVER OXIDE SYSTEMS OF ALUMINUM, BORON, BERYLLIUM, AND LITHIUM MEASURED AS FUNCTION OF COMPOSITION N64-18820 11-13

HEAT CAPACITY OF LIGHT-ELEMENT MIXED METAL COMPOUNDS AND SOLID VAPOR EQUILIBRIUM OF ALUMINUM HALIDES N64-18821 11-13

DYNAMIC AND STATIC VAPOR PRESSURE CONTROL BY GAS CHROMATOGRAPH STUDIES OF OPEN CYCLE FUEL CELL
NASA-CR-53733 N64-19575 12-06

COMPARISON OF GAS CHROMATOGRAPH TESTS & COMPUTER SOLUTIONS OF MATHEMATICAL MODEL FOR STATIC VAPOR PRESSURE CONTROL SYSTEM
NASA-CR-53816 N64-19612 12-06

VAPOR PRESSURE DETERMINATION OF HYDROCARBON FUELS AT HIGH TEMPERATURE - EXPERIMENTATION & CALCULATION
APL-TDR-64-37 N64-19653 12-19

VAPOR PRESSURE AND SPECTRAL EMISSIVITIES OF REFRACTORY MATERIALS
WADD-TR-60-646, PT. 3 VOL. 2 N64-19660 12-19

HIGH SPEED CONDENSING VAPOR FLOW PRESSURE DROP DETERMINATION AS FUNCTION OF HEAT TRANSFER
NASA-CR-56238 N64-22478 15-13

VAPOR PRESSURE MEASUREMENT OF ZIRCONIUM TETRAFLUORIDE BY MASS SPECTROMETER
FTD-TT-64-219/1&2&4 N64-25467 17-19

VAPOR PRESSURE AND VAPOR FRACTIONATION OF SILICATE MELTS OF TEKTITE COMPOSITION
NASA-RP-298 N64-28705 20-07

APPARATUS FOR MEASUREMENT OF VAPOR PRESSURES OF AQUEOUS SOLUTIONS AT HIGH TEMPERATURE
AERE-R-3565, REV. N64-28809 20-15

OPEN-CYCLE FUEL CELL SYSTEM - STATIC VAPOR PRESSURE CONTROL, PURGING OF INERT IMPURITIES FROM REACTANT GASES, AND TESTS ON GAS COOLED FUEL CELL SYSTEM MOCKUP
NASA-CR-58313 N64-28955 20-06

VAPOR PRESSURE & EVAPORATION COEFFICIENTS OF STANNIC, ZINC, & BERYLLIUM OXIDE
UCRL-7521 N64-29891 21-07

VAPOR PRESSURE & FRACTIONATION OF TEKTITE MELTS
NASA-TN-D-1084 N64-30091 21-12

MEASUREMENT OF VAPOR PRESSURE AND HEAT OF SUBLIMATION OF RUTHENIUM AND OSMIUM USING MICROBALANCE TECHNIQUE
NBS PAPER-68A3-280 N64-32230 23-07

COMPATIBLE MATERIALS FOR VAPOR-PRESSURE-OPERATED HIGH-TEMPERATURE SENSOR DEVICE
NASA-CR-50001 N64-32631 23-15

VAPOR PRESSURE APPARATUS
DETERMINING KINETICS OF VAPORIZATION AND VAPOR PRESSURE OF METAL POWDERS - METHOD AND APPARATUS FOR VACUUM DEPOSITION N64-11009 02-13

ROCKET SOUNDING IN THE MESOSPHERE
NASA-TM-X-54618 N64-16725 08-12

VAPORIZATION
THERMOCHEMISTRY OF ALLOYS & COMPOUNDS BY MASS SPECTROMETRY - VAPORIZATION STUDIES
WADD-TR-60-782 N64-11372 02-18

VAPORIZATION OF IRON OXIDES AND ANALYSIS OF SPECIES BY MASS SPECTROMETER
UCRL-10991 N64-13216 04-07

EPITAXY DEPOSITED STOICHIOMETRIC FILMS BY FLASH EVAPORATION
AFCRL-63-524 N64-13675 05-25

MASS SPECTROMETRIC STUDY OF VAPORIZATION PROCESS, AND MEASUREMENT OF HEAT OF DECOMPOSITION FOR COMPOUNDS OF ZINC, CADMIUM, & MERCURY
WADD-TR-60-782, PT. 18 N64-14513 06-07

MASS SPECTROMETRIC STUDIES OF VAPORIZATION OF SULFIDES OF CALCIUM, BARIUM, AND STRONTIUM
WADD-TR-60-782, PT. 21 N64-17970 10-07

THERMODYNAMIC PROPERTIES OF VARIOUS OXIDES AND CARBIDE VAPORIZATION N64-18806 11-13

SUBLIMATION AND VAPORIZATION BEHAVIOR OF MIXED ALUMINUM-BORON-LITHIUM COMPOUNDS N64-18819 11-13

FEASIBILITY OF VAPORIZING HYDROCARBON FUELS IN VAPORIZING HEAT EXCHANGER PRIOR TO COMBUSTION FOR INCREASING HEAT SINK CAPACITY
ASD-TDR-62-920, PT. 2 N64-20125 13-26

FLASH VAPORIZATION OF SOLID MATERIALS FOR MASS SPECTROMETRY BY THERMAL RADIATION
USNRDL-TR-736 N64-21080 14-23

VAPORIZATION OF SOLIDS BY ABSORBED RADIATION ENERGY
FTD-TT-63-77/162 N64-22341 15-13

VAPORIZATION OF METAL BY MELTING WITH ELECTRON BEAM - PRODUCING ELECTRON BEAM FROM HOLLOW COLD CATHODE
JPRS-26891 N64-31314 22-17

VAPORIZATION DATA ON TUNGSTEN
NASA-CR-58774 N64-33174 24-13

VAPORIZATION HEAT
CALCULATION OF HEATS OF VAPORIZATION AND FUSION OF RARE GASES FROM ISOTHERMAL REVERSIBLE WORK REQUIRED TO COMPRESS FLUIDS
NAA-SR-8879 N64-10364 01-07

DESIGN, CONSTRUCTION, AND TESTING OF CALORIMETER FOR DETERMINING HEATS OF VAPORIZATION
OI-360330-B N64-21796 15-15

RESISTANCE CHANGES CAUSED BY VAPORIZATION WAVES IN EXPLODING WIRES
BRL-1241 N64-25595 17-23

VARACTOR
VARACTOR FREQUENCY MULTIPLIER AT CENTIMETER WAVELENGTH
NASA-CR-55223 N64-16107 07-08

CIRCUIT THEORY AND DESIGN - VARACTOR MULTIPLIERS N64-17887 10-09

VARACTOR FREQUENCY MODULATION OF SUPPORTED DRIFT TUBE KLYSTRON
GE/EE/63-20 N64-31919 23-09

MICROWAVE TRANSMISSION EQUIPMENT - ADAPTIVE CIRCUITRY, DIGITAL MODULATION, AND SOLID STATE VARACTOR MULTIPLIERS
RM-3762-PR N64-32855 24-08

VARACTOR DIODE
VARACTOR DIODE PARAMETRIC AMPLIFIER FOR USE WITH METEOROLOGICAL INSTRUMENTS
AFCRL-63-761 N64-13597 04-12

GALLIUM ARSENIDE VARACTOR DIODES
AD-435643 N64-18740 11-09

PREPRODUCTION TESTING OF GALLIUM ARSENIDE VARACTOR DIODES
QPR-7 N64-26495 18-09

PERFORMANCE TESTING OF P-I-N AND VARACTOR DIODES FOR USE AS TRANSMITTER-RECEIVER DEVICES
REPT.-3 N64-29313 21-09

GALLIUM ARSENIDE EPITAXIAL VARACTOR DIODES FOR HARMONIC GENERATION AND FORWARD BIAS SHOT NOISE
REPT.-16 N64-29636 21-09

GALLIUM ARSENIDE EPITAXIAL VARACTOR DIODES FOR MICROWAVE HARMONIC GENERATION, AND MEASUREMENT TECHNIQUES FOR TRANSIENT MICROWAVE IMPEDANCE OF P-I-N DIODES
REPT.-17 N64-32569 23-09

VARIABLE GEOMETRY STRUCTURE
CONCEPTUAL STUDIES OF VARIABLE GEOMETRY SPACE STRUCTURES
NASA-CR-52464 N64-10309 01-34

VARIABLE GEOMETRY WING DESIGN & COST ANALYSIS - MAINTENANCE, STRUCTURE, FLUTTER, WEIGHT, AND EXTERNAL STORES CONSIDERATIONS
AGARD-437 N64-13934 05-04

VARIABLE GEOMETRY STRUCTURES - NASA PROGRAM RESEARCH ACTIVITES
AGARD-447 N64-16538 08-04

VARIABLE GEOMETRY SPACE STRUCTURE
N64-23726 16-30

VARIABLE MASS SYSTEM
STABILITY CONDITIONS FOR MOVEMENT OF HEAVY VARIABLE MASS BODY IN VERTICAL PLANE WITH RETARDING FORCE OF MEDIUM TANGENT TO TRAJECTORY
FTD-TT-62-1188/1&2 N64-11188 02-23

MATHEMATICAL THEORY OF STABILITY OF MOTION OF VARIABLE MASS SYSTEMS
MH-TRANS-428 N64-11573 03-20

EXTENSION OF SPECIAL RELATIVITY TO TRANSFORMATIONS FOR VARIABLE MASS SYSTEMS, & RELATIVISTIC PERTURBATION THEORY FOR SATELLITE ORBITS
NASA-TR-R-188 N64-12155 03-23

TRAJECTORIES OF VARIABLE MASS POINT IN CENTRIPETAL FORCE FIELD
JPRS-23629 N64-16546 08-29

DYNAMICS OF VARIABLE MASS SYSTEMS - NEWTONIAN FORMULATION
MH-TRANS-104 N64-21824 15-23

EXTENSION OF LAGRANGIAN MECHANICS TO SYSTEMS OF VARIABLE MASS - ACCOUNTING FOR INTERNAL MOTION OF PARTICLES
MH-TRANS-105 N64-21825 15-23

MOTION OF VARIABLE MASS SYSTEM WITH VARIABLE BUT LIMITED POWER EXPENDITURE IN GRAVITATIONAL FIELD
FTD-TT-63-973/1&4 N64-22178 15-20

MOTION EQUATIONS FOR MECHANICS OF CHANGING BODY OF VARIABLE MASS
NASA-TT-F-8742 N64-27365 19-23

ELECTROMAGNETIC ACCELERATION EQUATIONS TREATING PLASMA MASS AS VARIABLE
NASA-TN-D-2164 N64-32428 23-24

VARIABLE STAR
COLORIMETRY, SPECTRAL ANALYSIS, AND OBSERVATION OF VARIABLE STARS AT UNIVERSITY OF PADUA
N64-10019 01-05

OBSERVATION OF VARIABLE STARS AND PECULIAR OBJECTS IN ZONE OF 49 ORIONIS N64-10023 01-05

NEW VARIABLE STARS IN ZONE OF ROSETTE NEBULA
N64-10024 01-05

VARIABLE STARS IN REGION OF NGC 1999
N64-11312 02-05

COSMOLOGY - PLANETARY ORIGINS, STELLAR EVOLUTION, VARIABLE STARS, MAIN SEQUENCE STARS, SOLAR CORONA SPECTRA, AND ELEMENT FORMATION
JPRS-24358 N64-19451 12-05

THEORY OF OSCILLATION OF CEPHEID VARIABLE STARS
N64-19456 12-05

OSCILLATION AMPLITUDE DISTRIBUTION IN VARIABLE STARS N64-19457 12-05

ASTRONOMY OF VARIABLE STARS N64-24658 17-05

ASTRONOMY OF ECLIPSING VARIABLE STARS
N64-24659 17-05

ASTRONOMY OF GASEOUS NEBULAS AND VARIABLE STARS
N64-24663 17-05

SPECTROSCOPIC INVESTIGATION OF SHORT-PERIOD PULSATING STARS N64-24780 17-29

STELLAR PULSATION FOR RR LYRAE AND CEPHEID TYPE VARIABLE STARS N64-27197 19-05

POPULATION AND DISTRIBUTION OF RED VARIABLE STARS OF RV TAURI TYPE
NASA-RP-333 N64-33451 24-05

VARIABLE SWEEP
STRUCTURAL & AERODYNAMIC CONSIDERATIONS FOR VARIABLE SWEEP AIRCRAFT
AGARD-438 N64-14414 06-04

VARIABLE THRUST
PARTIALLY COOLED THRUST CHAMBER FOR VARIABLE THRUST OPERATION
PA-TR-3119 N64-13246 04-17

RADIAL DIAPHRAGM SEPARATED INJECTION METHOD FOR VARIABLE THRUST LIQUID ROCKET ENGINES WITH CONSTANT MIXTURE RATIO
AGRR-TB-11 N64-30468 22-27

VARIANCE
RUPTURE BEHAVIOR OF ELASTOMERS - EFFECT OF VARIANCE ON FAILURE ENVELOPE RESOLUTION AND EFFECT OF CROSSLINK DENSITY ON CURVE SHAPE AND LOCATION
NASA-CR-55213 N64-13160 04-07

APPLICATION OF CALCULUS FOR FACTORIAL ARRANGEMENTS TO UNEQUAL NUMBERS IN VARIANCE ANALYSIS
MRC-411 N64-21329 14-20

SLOWLY-VARYING CHANNELS AND SIGNAL DETECTION
MRC-488 N64-30971 22-08

LIMITING COVARIANCE IN MARKOV RENEWAL PROCESSES - OPERATIONS RESEARCH
ORC-64-16/RR/ N64-33312 24-20

VARIATION METHOD
VARIATION PROBLEM FOR MAXIMUM AIRCRAFT RANGE - CYBERNETICS N64-12472 04-22

DETERMINATION OF CHARACTERISTICS OF TRANSPORTATION NETWORK BY VARIATION METHOD FOR USE IN SOLVING TRANSPORTATION PROBLEMS N64-13742 05-09

BOUNDS AND EXPRESSIONS FOR ELASTIC MODULI OF CIRCULAR FIBER-REINFORCED MATERIALS BY VARIATIONAL METHOD
ASME PAPER-63-WA-175 N64-13943 05-19

ADHESIVES, ISOTOPE SEPARATION, PURIFICATION, PROPERTIES, AND VARIATION METHOD ANALYSIS OF CALORIMETRY DATA - REACTOR PHYSICS
MLM-1148 N64-14755 06-23

VARIATIONAL METHOD OF APPLYING PRINCIPLES OF LEAST SQUARES TO SOLUTION OF LINEAR AND NONLINEAR EQUATIONS
MLM-1186 N64-26473 18-20

VARIATIONAL CALCULUS
THROTTLE CHARACTERISTICS OF AEROSPACE POWERPLANT - ATTAINMENT OF EXTREMUM BY INTRINSIC PARAMETERS OF MOTION - VARIATIONAL CALCULUS N64-11429 02-04

DIFFERENTIAL CORRECTION FOR IMPROVING INITIAL VALUES OF ADJOINT VARIABLES, SATISFYING EQUATIONS OF PONTRYAGINS PRINCIPLE - CALCULUS
NASA-CR-55016 N64-12027 03-20

VARIATIONAL FORMULATION OF OPTIMAL CONTROL PROBLEM WITH FUNCTIONALS DEPENDING ON INTERMEDIATE COORDINATE VALUES N64-12494 04-20

CONCISE FORMULATION OF BOUNDED PHASE COORDINATE CONTROL PROBLEM IN CALCULUS OF VARIATIONS
NASA-CR-55351 N64-14289 06-20

METHODS FOR SOLUTION OF VARIATIONAL PROBLEMS USING SUFFICIENT CONDITIONS FOR ABSOLUTE MINIMUM
MH-TRANS-427 N64-18051 10-20

VARIATIONAL CALCULUS APPROACH TO OPTIMAL CONTROLS
NASA-CR-53346 N64-18299 10-20

CALCULUS OF VARIATIONS, DYNAMIC PROGRAMMING, AND STEEPEST DESCENT METHODS USED AS OPTIMIZATION TECHNIQUES FOR FLIGHT MECHANICS PROBLEMS
SM-45811 N64-20478 13-20

APPLICATION OF DIRECT METHOD OF VARIATIONAL CALCULUS FOR SOLUTION OF BOLTZMANN EQUATION OF NEUTRON DYNAMICS
EUR-217.D, PT. 1 N64-20871 14-20

SOLUTION OF VARIATIONAL PROBLEMS USING NEWTON-RAPHSON OPERATOR N64-20951 14-20

APPLICATION OF DIRECT METHOD OF CALCULUS OF VARIATIONS TO BOLTZMANN EQUATION
EUR-217.D, PT. 2 N64-21002 14-20

DISCONTINUOUS VARIATIONAL PROBLEMS & OPTIMAL FLIGHT OF MULTISTAGE ROCKETS
RM-162 N64-21838 15-29

MATERIAL MOMENTUM-ENERGY TENSORS AND CALCULUS OF VARIATIONS
RM-3993-PR N64-21916 15-20

STRONG MINIMUM IN CLASSICAL PROBLEM OF CALCULUS OF VARIATIONS N64-23556 16-20

DYNAMIC PROGRAMMING, VARIATIONAL CALCULUS, AND ADAPTIVE & STOCHASTIC CONTROL
NASA-CR-56202 N64-24163 16-29

STATE VARIABLE DISCONTINUITIES IN SOLUTION OF PROBLEMS OF VARIATIONAL CALCULUS
SSD-TDR-64-142 N64-26110 18-20

VARIATIONAL METHOD OF APPLYING PRINCIPLES OF LEAST SQUARES TO SOLUTION OF LINEAR AND NONLINEAR EQUATIONS
MLM-1186 N64-26473 18-20

VARIATIONAL CALCULUS PROBLEMS WITH ARGUMENT LAG
RM-179 N64-26634 18-20

CONJUGATE POINT CONDITION DERIVATION IN CALCULUS OF VARIATIONS FOR GENERAL CONTROL PROBLEM
TR-441 N64-27700 19-20

REDUCTION OF ONE CLASS OF OPTIMUM CONTROL PROBLEMS TO SIMPLEST VARIATIONAL PROBLEM
N64-28345 20-23

APPROXIMATION AND ALLOCATION - VARIATIONAL CALCULUS
MRC-382 N64-29031 21-20

INEQUALITY CONSTRAINT PROBLEMS IN CALCULUS OF VARIATIONS
TR-436 N64-29351 21-20

ANALYTICAL TECHNIQUE FOR COMBINING LINEARIZED TWO-BODY EQUATIONS WITH CALCULUS VARIATIONS TO DETERMINE GUIDANCE LAW FOR OPTIMUM SPACE MANEUVERS
NASA-TM-X-51926 N64-29518 21-29

HAMILTON-JACOBI EQUATION IN VARIATIONAL PROBLEMS WITH PARTIAL DERIVATIVES
FTD-MT-64-224 N64-31773 23-20

VARIATIONAL PRINCIPLE
ABSTRACT VARIATIONAL PRINCIPLE DERIVED FROM DIRICHLET BOUNDARY VALUE PROBLEM FOR LINEAR PROBLEMS
ONR-064-431 N64-10556 01-23

VARIATIONAL PRINCIPLE OF HAMILTON APPLIED TO HYDROMAGNETIC SYSTEM WITH EQUATIONS IN HAMILTONIAN FORM
RTI/P1/62/6 N64-12574 04-24

THERMOELASTICITY - EQUATIONS, THERMAL STRESS, VARIATIONAL PRINCIPLE, THERMAL BUCKLING, AND STIFFNESS & VIBRATION N64-13564 05-23

VARIATIONAL TECHNIQUES TO OBTAIN SHORT PROOF OF RIESZ THEOREM OF LINEAR INEQUALITIES
RM-4149-PR N64-29665 21-20

VASCULAR SYSTEM
G-FORCE EFFECTS ON VASCULAR SYSTEM STRUCTURE
JPRS-22956 N64-14134 05-16

STRUCTURE AND FUNCTIONS OF COMPONENTS OF BRAIN - NEURONS, VASCULAR CAPILLARY NETWORK, NEUROGLIA, & CEREBROSPINAL FLUID
IPST-990 N64-22203 15-16

REACTIONS OF VASCULAR SYSTEM OF CRANIAL CAVITY DURING LONGITUDINAL G-LOADS N64-23770 16-16

ETIOLOGY OF DECOMPRESSION SICKNESS - GAS-BUBBLE FORMATION IN VASCULAR SYSTEM AND TISSUES
DVL-351 N64-26665 18-16

PRESSURE TRANSDUCER FOR RECORDING OSCILLOGRAPH AND PLETHYSMOGRAPHY OF VASCULAR SYSTEM RESPONSE TO COLD STIMULUS IN NOSE
FTD-TT-63-849/1&2 N64-31103 22-16

PLETHYSMOGRAPHY OF HUMAN VASCULAR SYSTEM RESPONSE TO COLD STIMULUS IN NOSE CAVITY N64-31104 22-16

VECTOR
APPROXIMATE DIRAC-COULOMB HAMILTONIAN POSSESSING TWO VECTOR INVARIANTS N64-13834 05-23

ATTITUDE & VELOCITY CONTROL SYSTEM FOR NASA VECTOR RESEARCH VEHICLE
NASA-CR-53368 N64-18100 10-27

FREQUENCY CHECK, VECTOR VERIFICATION, & ELECTRON DENSITY MAP
AD-434155 N64-18777 11-25

RIEMANN MANIFOLD USED TO OBTAIN INVARIANT MEAN CURVATURE VECTOR
AROD-1517-62 N64-22540 15-20

MEASUREMENT OF SMALL RADAR CROSS SECTIONS BY DIGITAL VECTOR FIELD SUBTRACTION N64-24313 17-08

TWO VERSIONS OF WEAK INTERMEDIATE VECTOR BOSON THEORY WITHIN UNITARY SYMMETRY
UR-875-36 N64-26449 18-23

AVERAGING REDUNDANT MEASUREMENTS FOR MAXIMUM PRECISION OF ERROR-CORRELATED TRACKING VECTORS
PMR-TM-63-12 N64-31282 22-20

ALGORITHMS FOR CALCULATION OF CHARACTERISTIC ROOTS AND VECTORS OF NORMALIZABLE MATRIX
ORNL-3688 N64-33440 24-20

MOTION EQUATIONS IN VECTOR FORM FOR MULTIPLE PART SATELLITE SUBJECTED TO PERTURBING FORCES AND TORQUES
TDR-269/4540-70/-8 N64-33934 24-23

TEST PROCEDURES FOR MULTIPLE COMPARISONS OF MEAN VECTORS WITH MULTIVARIATE NORMAL PARENT POPULATIONS OF KNOWN OR UNKNOWN COVARIANCE MATRIX
ARL-64-124 N64-33953 24-20

VECTOR ANALYSIS
SA FLOWGRAPH
MAXIMUM PRINCIPLE AND PONTRYAGIN THEOREM FOR STEEPEST DESCENT AND DYNAMIC STRESSES IN VECTOR ANALYSIS
EUR-411.E N64-14461 06-20

MAXIMUM LIKELIHOOD ESTIMATION OF VECTOR PARAMETER IN FINITE STATIONARY ERGODIC MARKOV CHAINS N64-17165 09-20

VECTOR ANALYSIS OF PARTICLE STRUCTURES USING MASS SPECTROMETER
NUP-64-1 N64-19475 12-23

VECTOR ANALYSIS OF SYSTEM PERFORMANCE CHARACTERISTICS N64-20484 13-20

LINEAR OPERATORS IN LINEAR VECTOR SPACE
HDL-TR-1187 N64-22097 15-20

ROTATIONAL INVARIANCE OF MAXWELL VECTOR EQUATIONS

NASA-RP-324 N64-31007 22-20

NONNEGATIVE DIFFERENCE ANALOGS OF ELLIPTIC DIFFERENTIAL EQUATIONS
MRC-492 N64-31963 23-20

VECTOR CONTROL
GAME THEORY - STABILITY OF VECTOR COALITIONS IN LINEAR PROGRAMMING
JPRS-23376 N64-15419 07-20

RADAR VECTORING OF FIGHTER AIRCRAFT
FTD-TT-63-606/162 N64-16429 08-08

VECTOR CONTROL OF MILITARY AIRCRAFT THROUGH THUNDERSTORM BY GROUND-BASED RADAR
N64-27400 19-21

VECTOR MESON
DECAY OF VECTOR MESONS & KAONS TO YIELD PIONS AND MASS DIFFERENCE OF TWO KAONS
UR-875-35 N64-25995 18-23

ANALYSIS OF PION-PION REACTION PRODUCING DEUTERON AND VECTOR MESON - NUCLEAR ELECTROMAGNETIC REACTION
TH-56 N64-26046 18-23

TRILINEAR COUPLINGS FORBIDDEN BY NONET SYMMETRY FOR VECTOR MESONS - HIGH ENERGY INELASTIC PROCESS
TH-60 N64-26265 18-23

VECTOR SPACE
SA BANACH SPACE
SA HILBERT SPACE
LINEAR OPERATORS IN LINEAR VECTOR SPACE
HDL-TR-1187 N64-22097 15-20

VEGETATION
EFFECTS OF CESIUM CONCENTRATION IN FEED SOLUTION AND IN SOIL ON ACCUMULATION IN PEA PLANTS & WHEAT
JPRS-22656 N64-13006 04-16

MAPPING OF GEOGRAPHICAL DISTRIBUTION OF VEGETATION
JPRS-25347 N64-28007 20-16

VEIN
OXYGEN & CARBON DIOXIDE TENSIONS IN DOG PULMONARY VEIN N64-17943 10-16

VELA PROJECT
RIOMETER AND PHASE-SOUNDER FOR DETECTION OF NUCLEAR EXPLOSIONS IN DEEP SPACE - VELA PROJECT
AD-444659 N64-33365 24-12

VELOCITY
FLIGHT SIMULATOR STUDY OF VELOCITY AND ATTITUDE CONTROL SYSTEMS WITH PILOT PERFORMANCE CONSIDERATION
EWR-101-63 N64-10971 02-04

COMPUTATION OF SOLAR MAGNETIC FIELD FROM HYDROMAGNETIC EQUATIONS FOR VELOCITY FIELDS IN LOW PHOTOSPHERE N64-11590 03-28

PROBLEM OF SHIP MOVING WITH UNIFORM VELOCITY OVER SEMI-INFINITE OCEAN AT REST AT INFINITY
RE-169 N64-14795 06-06

ALTITUDE, VELOCITY, AND RANGE LIMITATIONS ON AIRCRAFT FLIGHT
FTD-TT-63-788/1 N64-16387 08-04

HIGH VELOCITY RATIO NEAR FREE MOLECULAR FLOW PAST NARROW STRIP
AD-430100 N64-16465 08-23

VELOCITY LIMITATIONS ON VEHICLES ENTERING ATMOSPHERE WITH HIGH MASS LOSS
NASA-TR-R-162 N64-16931 09-13

AXIAL COMPRESSION TEST OF EFFECT OF HIGH VELOCITY AND HIGH TEMPERATURE AIR ON WHEEL BUMP FAIRING MATERIALS
A487 N64-17145 09-02

CORRELATION BETWEEN FLUCTUATING VELOCITIES AND FLUCTUATING WALL PRESSURE IN THICK TURBULENT BOUNDARY LAYER
AGARD-456 N64-17234 09-11

ATTITUDE & VELOCITY CONTROL SYSTEM FOR NASA VECTOR RESEARCH VEHICLE
NASA-CR-53368 N64-18100 10-27

VELOCITY OF SHEAR FRACTURE PROPAGATION - SEISMOLOGY N64-18110 10-23

VELOCITY SERVO-VOLTAGE-CONTROLLED OSCILLATOR
NASA-CR-53737 N64-19600 12-09

RADIAL VELOCITIES OF GALAXIES N64-21133 14-05

DETERMINATION OF VERTICAL VELOCITY AND PRECIPITATION RATE PATTERNS ASSOCIATED WITH DEVELOPING COLD LOW AT 500-MB
CIR-3961 N64-27074 19-21

VERTICAL VELOCITY AS EXPRESSED BY HORIZONTAL MOTION EQUATION N64-27401 19-21

INTERACTION POTENTIALS FROM VELOCITY DEPENDENCE OF TOTAL ATOM-ATOM SCATTERING CROSS SECTION
N64-27553 19-23

INTERACTION POTENTIALS FROM VELOCITY DEPENDENCE OF TOTAL ATOM-ATOM SCATTERING CROSS SECTIONS
N64-27556 19-23

VELOCITY DEPENDENCE OF TOTAL CROSS SECTION FOR METASTABLE HELIUM SCATTERING BY HELIUM, ARGON, AND KRYPTON N64-27557 19-23

SPATIAL VELOCITIES OF STARS FOR STUDY OF KINETICS AND DYNAMICS OF GALAXY N64-28385 20-05

HYPERVELOCITY IMPACT ON STRUCTURAL MATERIAL USING EXPLODING CONDUCTOR CIRCUIT - MEASUREMENT OF MASS, VELOCITY, AND CRATERING OF PARTICLES
ML-TDR-64-161 N64-29427 21-33

IMPACT VELOCITY EFFECT ON RESISTANCE OF METALS TO PLASTIC FLOW
FTD-MT-64-217 N64-30155 21-18

VELOCITY DISTRIBUTION
VELOCITY DISTRIBUTION OF FLOWING MERCURY IN TRANSVERSE MAGNETIC FIELDS
FTD-TT-62-1827/162 N64-11160 02-11

SEISMIC OBSERVATION INTERPRETATION IN COMPLICATED VELOCITY DISTRIBUTION LOCATIONS - GEOLOGICAL SURVEY N64-11499 03-12

ELEMENT VELOCITY DISTRIBUTION CONTROL IN SONAR PIEZOELECTRIC CRYSTAL PROJECTOR ARRAY
N64-15112 07-23

DISTRIBUTION OF LIQUID DROPLET MASS VELOCITY AND LOCAL LINEAR VELOCITY FOR GAS CORE IN AIR-WATER ANNULAR FLOWS
AERE-R-3955 N64-15225 07-11

VELOCITY DISTRIBUTION ESTIMATION AT INLET OF AXIAL-FLOW TURBOMACHINE
ASME PAPER 63-WA-162 N64-15664 07-02

RADIOFREQUENCY MODULATION AND VELOCITY DISTRIBUTIONS IN BRILLOUIN BEAM
N64-16133 08-09

LARGE-SIGNAL VELOCITY DISTRIBUTION INVESTIGATION IN MODULATED BRILLOUIN BEAM
GALCIT-SM-64-10 N64-16134 08-09

COMPUTATION METHODS FOR VELOCITY DISTRIBUTION AND BOUNDARY LAYERS ON BODIES OF REVOLUTION
TRECOM-TR-63-47 N64-16617 08-02

STATISTICAL ANALYSIS OF VELOCITY DISTRIBUTION OF TURBULENCE IN MIXING REGION OF ROUND SUBSONIC JET
AGARD-451 N64-18721 11-11

SPACE-TIME CORRELATION OF U-COMPONENT OF TURBULENCE IN JET MIXING REGION
AGARD-452 N64-18722 11-11

LONGITUDINAL PLASMA OSCILLATIONS - DISPERSION,

VELOCITY DISTRIBUTION, AND PHYSICAL MECHANICS OF PLASMA INSTABILITY
NASA-CR-53821 N64-19314 12-24

APPROXIMATION SOLUTIONS FOR COURSE AND VELOCITY DISTRIBUTION OF BOUNDARY MACH CURVE - NOZZLE FLOW
DFL-219 N64-21701 15-02

MEAN VELOCITY GRADIENT EFFECTS ON REDISTRIBUTION OF TURBULENT ENERGY IN WEAK SHEAR FLOW
NASA-RP-194 N64-22087 15-11

NOMOGRAPHS FOR APPROXIMATE CALCULATIONS OF VELOCITY DISTRIBUTIONS IN TURBINE GRILLS
N64-23490 16-11

VELOCITY DISTRIBUTION DUE TO THICKNESS OF SWEPT WINGS WITH SUBSONIC EDGES AT SUPERSONIC SPEEDS
ARC-CP-654 N64-25074 17-02

VELOCITY DISTRIBUTION OF PROPELLANT EJECTION AND EFFECT ON PROPULSION EFFICIENCY OF ION ENGINES
NASA-RP-241 N64-26403 18-27

PRESSURE DROP AND FLOW VELOCITY DISTRIBUTION IN PIPES WITH REGULAR PATTERN OF ROUGHNESS IN TURBULENT FLOW
RSIC-220 N64-27053 19-11

NOZZLE PROFILE CALCULATION WITH GIVEN VELOCITY DISTRIBUTION ALONG NOZZLE AXIS - AXISYMMETRIC FLOW
REPT.-143 N64-31432 23-11

PREDICTION OF VELOCITY FIELDS IN WAKE OF FIXED- AND ROTARY-WING AIRCRAFT FOR AIR TRAFFIC CONTROL SEPARATION STANDARDS
RD-64-55 N64-32466 23-22

MOTION EQUATIONS FOR CONSTANT CURRENT SHEET VELOCITY MODEL OF COAXIAL PLASMA ACCELERATOR
R64SD61 N64-33600 24-24

VELOCITY ERROR
ERROR ANALYSIS FOR POSITION AND VELOCITY PREDICTION OF NEARLY CIRCULAR SATELLITE ORBITS
W-6637 N64-19866 12-29

VELOCITY MEASUREMENT
CONVECTION VELOCITIES OF TURBULENT FLUCTUATIONS IN SHEAR FLOW
NPL-AERO-1050 N64-10018 01-11

USE OF OPTICAL DOPPLER SHIFTS IN RADIATION FROM NATURAL SOURCES TO DETERMINE SPACE VEHICLE VELOCITY - SPACE NAVIGATION
F-A2415 N64-12042 03-15

VELOCITIES OF SPUTTERED ATOMS DETERMINED BY PULSING TARGET AND MEASURING TRANSIT TIME OF ATOMS - POLYCRYSTALLINE & SINGLE CRYSTAL COPPER
N64-12477 04-23

VELOCITIES OF SPUTTERED ATOMS DETERMINED BY PULSING TARGET & MEASURING TRANSIT TIME OF SPUTTERED ATOMS N64-12478 04-23

NEW ANTENNA TECHNIQUES FOR AEROSPACE VEHICLE DOPPLER VELOCITY SENSORS
P63-74 N64-13128 04-09

VELOCITY DECREMENT OF DETONATION WAVE IN GASEOUS EXPLOSIVE BOUNDED BY INERT GASEOUS MEDIUM
AROD-3559-1 N64-14323 06-26

ACTIVE DOPPLER VELOCITY SENSOR FOR RADAR NAVIGATION TECHNIQUE
BR-2604 N64-14509 06-08

INFLUENCE OF ORBITAL MOTION OF EARTH ON DISTANCE AND VELOCITY DETERMINATION OF COSMIC OBJECTS BY RADIO WAVE PROPAGATION
NH-TRANS-456 N64-14717 06-05

VELOCITY MEASUREMENTS WITH MOSSBAUER EFFECT
N64-16173 08-23

FLIGHT TEST TO DETERMINE ALTITUDE EFFECT ON HEIGHT-VELOCITY DIAGRAM OF SINGLE ENGINE HELICOPTER
FAA-ADS-1 N64-16290 08-04

SHOCK-WAVE INDUCED, HIGH SPEED PLASMA STUDY, TO DEVELOP VELOCITY MEASUREMENT FOR REENTRY VEHICLES
RTD-TDR-63-4108 N64-16660 08-27

MOTIONS OF BARRED SPIRAL GALAXY - SPECTROSCOPIC OBSERVATION OF VELOCITY FIELD OF NGC 925
NASA-CR-53823 N64-19315 12-05

MOTIONS IN BARRED SPIRALS - ROTATION AND VELOCITY FIELD OF NGC 613
NASA-CR-53825 N64-19620 12-05

DOPPLER EFFECT OBSERVATION IN REFLECTED LASER BEAM FOR SATELLITE VELOCITY MEASUREMENT
AD-434227 N64-21185 14-22

CONTINUOUS MEASUREMENT OF INSTANTANEOUS CRACK PROPAGATION VELOCITY N64-22110 15-33

METHODS FOR DETERMINING AIRCRAFT VERTICAL VELOCITY
NAVWEPS-8387 N64-24068 16-04

VELOCITY MEASUREMENT OF DETONATION WAVE IN GASEOUS OZONE
UCB-3-P N64-25792 17-26

LANGMUIR PROBE AND VELOCITY MEASUREMENTS IN PLASMA JET N64-26147 18-24

ADVANCED ANTENNA TECHNIQUES FOR AEROSPACE VEHICLE DOPPLER VELOCITY SENSORS
AL-TDR-64-163 N64-26219 18-08

VELOCITY MEASUREMENT AND HEAT TRANSFER IN TURBINES AND COMPRESSORS
FTD-TT-62-1784/1&2 N64-27126 19-13

VELOCITY MEASUREMENT IN AXIAL FLOW COMPRESSORS AND TURBINES N64-27127 19-11

DYNAMIC-KINEMATIC METHOD FOR COMPUTING VERTICAL MOTION VELOCITY FROM WINDS N64-27402 19-21

OPTICAL OBSERVATIONS FOR USE IN DETERMINING POSITION AND VELOCITY OF SPACECRAFT IN REGION BETWEEN EARTH AND MOON
NASA-TN-D-2448 N64-28723 20-29

VELOCITY AND RANGE MEASUREMENTS WITH CONTINUOUS WAVE /CW/ RADARS
NASA-CR-58600 N64-28971 20-08

VELOCITY MEASUREMENT OF CORPUSCULAR STREAMS IN SOLAR CORONA BY SOLAR RADIO EMISSION
NASA-TT-F-227 N64-31082 22-20

APPLICATION OF NUCLEAR RESONANCE SENSING TO MEASUREMENT OF MECHANICAL MOTION
R63SD317 N64-31158 22-23

CONTINUOUS WAVE SONIC ANEMOMETER FOR VELOCITY MEASUREMENTS N64-31849 23-15

MISSILE LIFT-OFF MEASUREMENT SYSTEM - ALL-WEATHER, NUCLEONIC, HIGH PRECISION TRACKER
RADC-TDR-63-535 N64-31907 23-10

SIZE DEPENDENT DISTRIBUTION OF METEOR VELOCITY
NASA-CR-59201 N64-33212 24-05

AIRBORNE INSTRUMENT FOR ELECTRIC CONDUCTIVITY-VELOCITY MEASUREMENT USING STEADY APPLIED MAGNETIC FIELD
SSD-TDR-64-158 N64-33348 24-15

DEFORMATION BEHAVIOR, DISLOCATION VELOCITY MEASUREMENTS, STRAIN RATE SENSITIVITY, AND YIELD POINT PHENOMENA IN VARIOUS MATERIALS - FLOW STRESS OF PURE AND DOPED ALKALI HALIDES
ARL-64-135 N64-33955 24-25

VELOCITY POTENTIAL
VELOCITY POTENTIAL EQUATION FOR PLURI-REACTING GAS MIXTURES
IA-103 N64-31063 22-11

VELOCITY PROFILE
THEORY OF VORTEX FLOW IN TURBOMACHINES - AXIAL VELOCITY PROFILES GOVERNED BY SINGLE PARAMETER
ARC-R&M-3335 N64-10017 01-11

BOUNDARY-LAYER VELOCITY PROFILES AND SKIN FRICTION OF OGIVE CYLINDER AT SUPERSONIC SPEED - SURFACE ROUGHNESS EFFECT
NASA-TN-D-2048 N64-11555 03-11

VELOCITY PROFILE OF LAMINAR BOUNDARY LAYER ON ROTATING CYLINDER
CAL-AM-1762-S-4 N64-13960 05-03

DIRECT MEASUREMENT OF BOUNDARY LAYER VELOCITY PROFILE OF GAS FLOW ALONG NONUNIFORMLY HEATED FLAT PLATE
FTD-TT-63-1053/1&2&4 N64-27837 19-15

PROPAGATION OF SOUND IN UPPER ATMOSPHERE - WAVE EQUATION FOR ACOUSTIC POINT SOURCE IN MEDIUM WITH VELOCITY PROFILE LINEAR WITH ALTITUDE
S-583 N64-31089 22-23

VELOCITY AND TEMPERATURE PROFILES FOR NONNEWTONIAN FLUIDS IN CIRCULAR TUBES
REPT.-22 N64-32589 23-11

VENOM AIRCRAFT
WING TIP PARACHUTE ON VENOM AIRCRAFT, DIRECTIONAL STABILITY DERIVATIVE AND RUDDER POWER MEASUREMENT
ARC-CP-658 N64-10139 01-03

VENT
HYDRODYNAMIC CHARACTERISTICS OF BASE-VENTED AND SUPERCAVITATING STRUTS FOR HYDROFOIL BOATS
REPT.-2796, VOL. I N64-30597 22-11

VENTILATION
VENTILATION INCEPTION ON SURFACE-PIERCING DIHEDRAL HYDROFOIL WITH PLANE-FACE WEDGE SECTION
AD-423951 N64-12239 03-11

VENTILATING AIRFLOW EFFECT ON WATER REQUIREMENTS OF MEN WEARING PARTIALLY AND FULLY DONNED PRESSURE SUITS
SAM-TDR-63-59 N64-12855 04-16

VENTILATION-PERFUSION RELATIONSHIP IN GAS EXCHANGE OF LUNGS N64-17939 10-16

TOPOGRAPHICAL DISTRIBUTION OF PERFUSION AND VENTILATION OF BLOOD IN LUNGS N64-17942 10-16

VENTILATION STATE AND CAVITY FORMATION BEHIND SURFACE-PIERCING ROD IN FREE SURFACE WATER TUNNEL AND TOWING TANK
E-110.1 N64-18582 11-11

SPACE SUIT - BREATHING, VENTILATION, PRESSURE AND DECOMPRESSION
FTD-TT-64-134/1&2&4 N64-21973 15-16

VENTILATION OF AIRCRAFT CREW FLIGHT CLOTHING - TEMPERATURE REGULATION
FTD-TT-63-774/1&2 N64-22180 15-16

PRESSURE LOSSES IN VENTILATION DUCTS DUE TO BUILT-IN BARS, GRATINGS, AND GRIDS
RSIC-211 N64-26829 18-11

ANTI-BLAST VALVE FOR SHELTER VENTILATION SYSTEM
C-63584 N64-31123 22-10

HELIUM REPLACEMENT FOR NITROGEN IN SPACECRAFT CABIN AND HELIUM-OXYGEN VENTILATION FOR PRESSURE SUIT N64-31535 23-16

VENTURI TUBE
CARBON DIOXIDE ABSORPTION BY WATER IN VENTURI GAS-LIQUID CONTACTOR - MASS TRANSFER
N64-11653 03-11

CAVITATION AND EFFECTIVE LIQUID TENSION OF NITROGEN IN A TUNNEL VENTURI
NASA-TN-D-2088 N64-15160 07-11

DETERMINATION OF CAVITATION CONDITIONS FROM DENSITY PROFILES OF MERCURY IN VENTURI TUBES
NASA-CR-53113 N64-16764 08-11

EFFECT OF NONSTANDARD APPROACH PIPING ON VENTURI AND ORIFICE METER ACCURACY
NASA-CR-58549 N64-28959 20-15

VENUS
EMPIRE PROGRAM FOR NASA - MISSION ANALYSIS AND SPACECRAFT SYNTHESES FOR MANNED CLOSE APPROACH TO VENUS AND MARS N64-10042 01-32

EARTH-VENUS TRAJECTORIES 1968-1969
NASA-CR-52268 N64-10099 01-29

EARTH-VENUS TRAJECTORIES 1968-1969
NASA-CR-52142 N64-10100 01-29

EARTH-VENUS TRAJECTORIES 1968-1969
NASA-CR-52465 N64-10310 01-22

EMPIRE PROGRAM MARS AND VENUS FLYBY MISSION
NASA-CR-52677 N64-10907 02-29

ERRORS IN DETERMINATION OF VENUS DIAMETER - ASTRONOMY N64-11257 02-05

MARS-I SPACECRAFT FOR OUTER ATMOSPHERE STUDY & RADIO LOCATION OF MARS, VENUS, & MERCURY
N64-12890 04-29

MAPS FOR OBTAINING DEPARTURE AND ARRIVAL SPEEDS FOR TRIPS TO MARS AND VENUS - CONSTANTS & PLANETARY EPHEMERIDES
NASA-SP-35, PT. 1 N64-14175 06-29

TRAJECTORY DATA FOR SCHEDULING FLIGHTS TO VENUS AND MARS, 1960-2000
NASA-SP-35, PT. 2 N64-14176 06-29

TRAJECTORY DATA FOR SCHEDULING FLIGHTS FROM VENUS AND MARS TO EARTH, 1960-2000
NASA-SP-35, PT. 3 N64-14177 06-29

IONOSPHERIC INTERPRETATION OF RADIO OBSERVATION OF VENUS
NASA-CR-53052 N64-14843 06-29

OPTICAL RADIUS OF VENUS FROM PHOTOGRAPHS TAKEN AT INFERIOR CONJUNCTION N64-14953 06-05

CONTINUOUS SPECTRUM OF VENUS AND JUPITER
N64-15156 07-05

THREE-DIMENSIONAL BALLISTIC EARTH-VENUS TRAJECTORIES
NASA-CR-53073 N64-15794 07-29

GUIDANCE, TRACKING, AND ERROR COEFFICIENTS OF THREE-DIMENSIONAL BALLISTIC EARTH-VENUS TRAJECTORIES
NASA-CR-52974 N64-15795 07-29

PARAMETRIC ANALYSIS OF MANNED PLANETARY FLIGHT TO VENUS AND MARS
NASA-CR-55409 N64-15879 07-29

INTERNAL STRUCTURE AND STRENGTH OF MOON, MARS, VENUS, AND MERCURY
NASA-TR-R-173 N64-17518 09-05

POSITION-VELOCITY EPHEMERIDES OF VENUS AND EARTH-MOON SYSTEM USING PERTURBATION METHODS
NASA-CR-53617 N64-18419 10-09

DIAMETERS, ELLIPTICITIES, & SPECTRAL ALBEDOS OF MERCURY, VENUS, AND MARS
NASA-CR-53507 N64-19984 12-05

RADIO EMISSION MEASUREMENTS - IONOSPHERIC MODEL OF VENUS N64-23785 16-09

PHOTOGRAPHIC MEASUREMENT OF DIAMETER OF VENUS
NASA-CR-56364 N64-23992 16-29

VENUS RADAR REFLECTION OF BEAM WITH CIRCULAR POLARIZATION - DEPOLARIZATION OF ECHO
NASA-CR-56656 N64-25682 17-29

RADIO EMISSION THEORY OF VENUS AND MARS

NASA-TT-F-8923 N64-26541 18-05

FLYBY MISSIONS TO VENUS AND MARS
N64-26981 19-29

PHOTOGRAPHIC OPTICAL SEMIDIAMETER OF VENUS
NSG-142-61 N64-28975 20-05

RADIATIVE HEAT TRANSFER ON ATMOSPHERIC ENTRY TO MARS OR VENUS - DISSOCIATION RATE OF CARBON MONOXIDE AT HIGH TEMPERATURES
NASA-CR-58574 N64-29185 21-24

RADIO ASTRONOMICAL OBSERVATIONS OF VENUS USING TELESCOPE WITH VARIABLE PROFILE ANTENNA AND HIGH RESOLVING POWER
NRL-TRANS-936 N64-29560 21-05

ASTRONOMICAL UNIT DETERMINATION FROM RESULTS OF RADAR OBSERVATIONS OF VENUS
NASA-TT-F-8532 N64-31727 23-05

METEOROLOGY OF VENUS, MARS, AND JUPITER
NASA-CR-58848 N64-33165 24-29

VENUS ATMOSPHERE
STATIC STABILITY AND RADIATIVE HEATING ASSOCIATED WITH MARS AND VENUS ATMOSPHERIC ENTRY
N64-10081 01-13

MEASUREMENTS OF HYPERVELOCITY STAGNATION POINT HEAT TRANSFER IN SIMULATED VENUSIAN ATMOSPHERE
NASA-CR-52201 N64-10102 01-13

EXPERIMENTS FOR MARTIAN AND VENUSIAN ATOMSPHERE PROBE
NASA-TN-D-1899 N64-11234 02-29

RADIANT HEAT TRANSFER IN ATMOSPHERES OF VENUS AND MARS
N64-11650 03-29

RADIATIVE & CONVECTIVE HEATING OF SHAPES ENTERING ASSUMED ATMOSPHERES OF MARS & VENUS AT SUPERORBITAL SPEEDS
NASA-TN-D-2064 N64-11903 03-13

MARS AND VENUS METEOROLOGY - MARS ATMOSPHERE TIDES AND THERMODYNAMIC DIAGRAMS, AND VENUS ATMOSPHERE ABSORPTION OF SOLAR ENERGY AND TEMPERATURE PROFILE
NASA-CR-55165 N64-13066 04-29

VENUS ATMOSPHERE - DENSITY & POSSIBLE COMPOSITION
NASA-CR-55367 N64-14152 05-29

OXYGEN IN ATMOSPHERE OF VENUS
NASA-CR-53061 N64-15781 07-29

COMPARISON OF ABSORPTION SPECTRA OF VOLCANIC FLAME AND SMOKE WITH SPECTRA OF MARS & VENUS ATMOSPHERES
FTD-TT-63-305/164 N64-16362 08-05

RADIATIVE EQUILIBRIUM DISTRIBUTION OF TEMPERATURE IN VENUS ATMOSPHERE AND AVERAGE ANNUAL RADIATION BUDGET AT TOP OF MARTIAN ATMOSPHERE
NASA-CR-53285 N64-17593 09-29

TEMPERATURE DISTRIBUTION IN UPPER ATMOSPHERE OF VENUS
NASA-TM-X-51525 N64-17795 09-29

MICROWAVE SPECTRUM INVESTIGATION OF CHEMISTRY OF VENUS ATMOSPHERE
NASA-CR-53365 N64-17818 09-29

WATER-CLOUD INTERPRETATION OF VENUS ATMOSPHERE MICROWAVE BRIGHTNESS DETERMINATION
RM-4060-PR N64-18788 11-29

OPTICALLY THIN SCATTERING LAYER IN VENUS ATMOSPHERE
N64-20899 14-29

RADIATIVE TRANSPORT FROM HOT GASES SIMULATING MARS-VENUS ATMOSPHERIC COMPOSITION
NASA-RP-174 N64-22413 15-13

WATER DETECTION IN VENUS ATMOSPHERE
NASA-TT-F-8875 N64-23128 16-05

RADIO ASTRONOMY AND STUDY OF VENUS ATMOSPHERE
N64-23863 16-05

EFFECT OF CLOUD COVER ON GREENHOUSE MODEL OF VENUS ATMOSPHERE
N64-23895 16-29

MARS AND VENUS IONOSPHERES
NASA-TN-D-2333 N64-24816 17-29

EXPLORATION OF VENUS ATMOSPHERE - MEASUREMENT OF PRESSURE, TEMPERATURE, DENSITY, AND CONSTITUENT GASES
NASA-TN-D-1909 N64-25075 17-32

WATER VAPOR AND TRACE CONSTITUENTS IN VENUS ATMOSPHERE
N64-25370 17-29

VENUS AND MARS ATMOSPHERE ENTRY SIMULATED BY COMBUSTION HEATED HYPERVELOCITY WIND TUNNEL
NASA-CR-56461 N64-25690 17-13

ATMOSPHERES OF MARS, VENUS, AND JUPITER
NASA-TN-D-2303 N64-25709 17-29

RADIATIVE HEAT TRASFER IN ATMOSPHERES OF VENUS AND MARS
NASA-RP-251 N64-26314 18-05

DETECTION OF WATER IN ATMOSPHERE OF VENUS
N64-27154 19-05

THERMAL DISSOCIATION OF CARBON DIOXIDE FOR TEMPERATURES FROM 6000 TO 10000 DEG K - HIGH TEMPERATURE PROPERTIES OF MARS & VENUS ATMOSPHERES
NASA-CR-56537 N64-27302 19-07

RADIATIVE EQUILIBRIUM IN PLANETARY ATMOSPHERES - APPLICATION OF STRONG LINE ABSORPTION LAW TO ATMOSPHERE OF VENUS
NASA-TN-D-2397 N64-27739 19-05

POWER HANDLING CAPABILITY AND BREAKDOWN POWER LEVEL OF TYPICAL LINEAR AND CIRCULARLY POLARIZED ANTENNAS IN SIMULATED MARS AND VENUS ATMOSPHERES
NASA-CR-59111 N64-33094 24-08

EXPERIMENTAL INVESTIGATIONS OF MICROWAVE RADIATION BY CHEMICAL REACTIONS - VENUS ATMOSPHERIC CHEMISTRY
NASA-CR-59112 N64-33190 24-29

VENUS PROBE
MARINER II OBSERVATION OF VENUS SURFACE PROPERTIES BY RADIATION MEASUREMENTS N64-10343 01-32

MARS AND VENUS IONOSPHERE TOPSIDE SOUNDER FOR MARINER SPACECRAFT
NASA-CR-52731 N64-10903 02-29

VOYAGER PROJECT - SYSTEMS ANALYSIS AND PARAMETRIC STUDY OF ORBITER-LANDER SPACECRAFT FOR MARS OR VENUS MISSIONS
RAD-TM-63-17, VOL. 1 N64-20021 13-30

MARINER II SPACECRAFT MICROWAVE RADIOMETER EXPERIMENT & VENUS SPACE PROBE N64-22439 15-32

SCIENTIFIC EXPERIMENTS, INSTRUMENTATION, AND DATA FROM MARINER VENUS MISSION
NASA-RP-271 N64-26516 18-32

DESIGN, ENGINEERING, AND FLIGHT HISTORY OF MARINER II SPACE PROBE N64-30513 22-32

PARAMETRIC STUDY OF CONSTANT THRUST ELECTRICALLY PROPELLED MARS AND VENUS ORBITING PROBES
NASA-TN-D-2154 N64-32402 23-32

MODULATION AND DETECTION PROCESSES FOR VENUS UNCOOPERATIVE RADAR TARGET ANALYSIS
NASA-CR-58777 N64-32998 24-05

MEASUREMENTS AT 8 MILLIMETERS OF BRIGHTNESS TEMPERATURE OF ILLUMINATED SIDE OF VENUS
NASA-TT-F-8978 N64-33385 24-29

VERNEUIL TECHNIQUE
SINGLE CRYSTAL NICKEL OXIDE FROM NICKEL SULFATE BY VERNEUIL METHOD
E-T-J-63-3 N64-12276 03-25

VERNIER ENGINE
PERFORMANCE DATA FOR ATLAS MA-2 AND MA-5 BOOSTER SUSTAINERS, AND VERNIER ROCKET ENGINES TO OPTIMIZE VEHICLE TRAJECTORIES
R-5108-3 N64-31291 22-27

VERONIQUE ROCKET
MEASUREMENTS OF LONG WAVE RADIATION VERSUS ALTITUDE USING VERONIQUE ROCKET
AFCRL-64-77 N64-18636 11-08

VERTICAL AIR CURRENT
DISTRIBUTION OF VERTICAL AIR CURRENTS AND DETERMINATION OF PRECIPITATION ZONES OVER HOLLAND FOR STABLE & UNSTABLE ATMOSPHERIC STRATIFICATIONS
JPRS-19119 N64-11125 02-21

METEOROLOGY - DETERMINATION OF SPEEDS OF VERTICAL AIR CURRENTS IN CONVECTIVE CLOUDS WITH HELP OF WEATHER RADAR
SCI. REPT.-63-31T N64-19014 11-21

CORRELATION OF VERTICAL VELOCITY OF AIR AND FORMATION OF CLOUD COVER N64-26435 18-21

CONTRIBUTION OF VERTICAL MOVEMENTS TO DEVELOPMENT OF CYCLONES AND ANTICYCLONES N64-27941 20-21

MEASURED SPECTRAL RESPONSE IN PITCHING PLANE OF AIRCRAFT TO VERTICAL VELOCITY COMPONENT OF ATMOSPHERIC TURBULENCE
ARC-CP-708 N64-29383 21-04

VERTICAL PROPAGATION OF PRESSURE CHANGES AND DIURNAL VARIATION OF SURFACE WIND IN GREENLAND
IR-2 N64-32593 23-21

VERTICAL DISTRIBUTION
THEORETICAL COMPUTATION OF AVERAGE VERTICAL TEMPERATURE DISTRIBUTION IN MARS ATMOSPHERE
NASA-CR-52414 N64-12950 04-28

VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE DEDUCED FROM INFRARED OBSERVATIONS
AFCRL-64-89 N64-20089 13-21

VERTICAL DISTRIBUTION OF DUST IN ATMOSPHERE & EFFECTS ON ION CONCENTRATION
AD-600940 N64-22920 16-12

VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE
NASA-TT-F-9015 N64-23131 16-12

VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE
N64-24480 17-21

VERTICAL DISTRIBUTION OF ATMOSPHERIC OZONE, SOLAR SPECTROMETRY, AND INTERFEROMETRIC INVESTIGATION OF CELESTIAL SPECTRA
AFCRL-64-569 N64-27081 19-12

VERTICAL DISTRIBUTION AND AVERAGE DISTRIBUTION OF OZONE OVER NORTH AMERICA
AFCRL-64-30/2/ N64-29992 21-12

VERTICAL DISTRIBUTION OF AEROSOL COMPONENT IN FREE ATMOSPHERE LIGHT SCATTERING
NASA-TT-F-8946 N64-30839 22-12

VERTICAL FLIGHT
GUIDANCE ERROR FROM THRUST DECAY IN POWERED VERTICAL FLIGHT OF ROCKETS
ADN-06-06-63.2 N64-25916 18-22

VERTICAL MOTION
VERTICAL MOTION OF STRESS WAVE AT VARIOUS SOIL DEPTHS DUE TO VISCOSITY AND INELASTICITY
N64-12413 04-12

VERTICAL MOTION IN THUNDERSTORMS
RAE-TRANS-1058 N64-26663 18-21

DETERMINATION OF VERTICAL VELOCITY AND PRECIPITATION RATE PATTERNS ASSOCIATED WITH DEVELOPING COLD LOW AT 500-MB
CIR-3961 N64-27074 19-21

REACTION OF NEURONS OF VESTIBULAR NUCLEI TO STIMULATION OF VESTIBULAR APPARATUS THROUGH PASSIVE VERTICAL MOTION OF ANIMALS
JPRS-25896 N64-27323 19-16

VERTICAL VELOCITY AS EXPRESSED BY HORIZONTAL MOTION EQUATION N64-27401 19-21

DYNAMIC-KINEMATIC METHOD FOR COMPUTING VERTICAL MOTION VELOCITY FROM WINDS N64-27402 19-21

VERTICAL PERCEPTION
SYNOPTIC VARIATIONS AND VERTICAL PROFILES OF IONOSPHERE IRREGULARITIES REPORTED BY SPUTNIK III AND COSMOS I SATELLITES N64-10423 01-12

VERTICAL TAKEOFF
FLUID DYNAMICS, ELECTRONICS, AERODYNAMICS, HYPERSONICS, VERTICAL TAKEOFF, AND SEPARATED FLOW STUDIES N64-11878 03-01

EFFECT OF WING-MOUNTED FAN ENGINE AND THRUST ENGINE LOADING ON POWER NEEDS IN TRANSITION FROM VERTICAL TAKEOFF TO LEVEL FLIGHT
ARC-CP-690 N64-13387 04-04

VERTICAL TAKEOFF AND LANDING
GROUND EFFECTS ASSOCIATED WITH VERTICAL TAKEOFF AND LANDING AIRCRAFT
AGARD-409 N64-10133 01-04

THRUST REQUIREMENTS VTOL SUPERSONIC MILITARY AND TRANSPORT JET AIRCRAFT
DFL-233 N64-27227 19-04

VERTIGO
INFLIGHT VERTIGO AND LOSS OF CONSCIOUSNESS - ELECTROENCEPHALOGRAPHIC STUDIES
CARI-63-21 N64-14952 06-16

VERY HIGH FREQUENCY
SOLAR-INDUCED EFFECTS ON VERY HIGH FREQUENCY IONOSPHERIC PROPAGATION AT LOW MAGNETIC LATITUDE
N64-15442 07-12

UHF AND VHF ANTENNA BEAM PATTERN STUDY
REPT.-5549-7-P N64-20571 13-09

ENERGY TRAPPING THEORY FOR MULTIELECTRODE RESONATOR DESIGN - VERY HIGH FREQUENCY FILTER CRYSTAL DEVELOPMENT
QR-3 N64-27696 19-09

SOLID STATE MASERS AND PARAMAGNETIC RESONANCE IN EXTREMELY HIGH FREQUENCY RANGE
ITR-4 N64-28645 20-25

RELATIONSHIP BETWEEN SOLAR NOISE STORM IN VERY HIGH FREQUENCY BAND AND SOLAR FLARE - INTERFEROMETRY N64-30273 22-23

SLOWLY VARYING COMPONENT IN SUPERHIGH FREQUENCY BAND AS FUNCTION OF SOLAR ACTIVITY
N64-30274 22-23

COHERENT ELECTROMAGNETIC ENERGY GENERATION AND AMPLIFICATION IN EXTREMELY HIGH FREQUENCY BAND AND ANALYSIS OF AMPLITUDE & PHASE MODULATED TRAVELING WAVE AMPLIFIERS
REPT.-05772 N64-32282 23-23

SLEDBORNE MULTICOUPLER DESIGN COMBINING SIX TRANSMITTERS TO ONE ANTENNA FOR USE IN VERY HIGH FREQUENCY RANGE
ARI-PUBL.-185 N64-32394 23-08

VERY HIGH FREQUENCY RADIO EQUIPMENT
HIGH FREQUENCY AND VERY HIGH FREQUENCY ROCKETBORNE SHROUD ANTENNAS
NASA-TM-X-51059 N64-10109 01-09

LONG-DISTANCE VERY HIGH FREQUENCY TRANSMITTING AND RECEIVING COMMUNICATION GROUND ANTENNA ARRAY
N64-10260 01-09

VERY HIGH FREQUENCY AIR-GROUND COMMUNICATION IN AIR TRANSPORTATION
JPRS-19480 N64-10657 01-09

WIDEBEAM VERY HIGH FREQUENCY ANTENNAS OF SATELLITE CONTROL FACILITY AS LOST VEHICLE

ACQUISITION AID
SSD-TDR-63-237 N64-13651 05-10

VERY HIGH FREQUENCY RADIOTELEMETRY IN SIMULATED ANIMAL INTERIOR ENVIRONMENT, AND TRANSPARENCY OF HUMAN BODY TO RADIO WAVES
SAM-TDR-63-80 N64-16642 08-16

DUAL-SIDEBAND DOPPLER VERY HIGH FREQUENCY OMNIDIRECTIONAL RANGE TRANSMITTER AND DISTRIBUTOR
CER-1669A N64-17229 09-08

APPLICATION OF BACKFIRE PRINCIPLE TO ENDFIRE ANTENNAS FOR SHF, UHF, AND VHF BANDS
AFCRL-63-114 N64-18386 10-09

TRANSISTORIZED VERY HIGH FREQUENCY TRANSMITTER DESIGN FOR SPACECRAFT APPLICATIONS
NASA-TN-D-2104 N64-20188 13-08

HIGH POWER CRESTATRONS FOR VERY HIGH FREQUENCY RANGE
QPR-14 N64-21833 15-09

HIGH POWER CRESTATRON FOR VERY HIGH FREQUENCIES
AD-600595 N64-22534 15-09

DIRECTIONAL RADIO ANTENNAS USED FOR TRANSMISSION AND RECEPTION OF RADIO SIGNALS AND COMMUNICATIONS AT VERY HIGH FREQUENCIES
FTD-TT-62-1426/1&2&3&4 N64-22624 15-08

VHF SILICON TRANSISTOR
PSI-59-RD-2 N64-25128 17-09

IONOSPHERIC CONTRIBUTIONS TO DOPPLER SHIFT AT VERY HIGH FREQUENCY FROM NEAR-EARTH SATELLITE
CR-1040 N64-25891 18-08

VERY LOW FREQUENCY
PHASE VELOCITY OF ELECTROMAGNETIC WAVES IN VERY LOW FREQUENCY RANGE
FTD-TT-63-807/1&2 N64-11545 03-09

VERY-LOW-FREQUENCY OBSERVATIONS MADE ABOARD ALOUETTE SATELLITE
NASA-TM-X-51251 N64-11794 03-32

ELECTRON DENSITY FLUCTUATION MEASUREMENTS IN IONOSPHERIC D-REGION BY VERY LOW FREQUENCY RADIO SIGNALS
NEL-1178 N64-12361 03-12

CLASSIFICATION OF NATURALLY OCCURRING VERY LOW FREQUENCY NOISES - SPECTROGRAM EXAMPLES OF RADIO NOISE & WHISTLERS
NBS-TN-166 N64-13905 05-12

PHASE CHANGE BETWEEN PHASE AND DIURNAL VARIATION OF VERY LOW FREQUENCY SIGNALS
NBS-TN-206-1 N64-13941 05-08

VERY LOW FREQUENCY ELECTROMAGNETIC RADIATION MEASUREMENTS MADE BY INJUN III SATELLITE
N64-14998 06-12

BEHAVIOR OF LONG DISTANCE VERY LOW FREQUENCY CIRCUITS DURING POLAR RADIO BLACKOUT
N64-15432 07-08

VERY LOW FREQUENCY INTERPLANETARY COMMUNICATIONS
N64-16181 08-08

VERY LOW FREQUENCY APPROXIMATION OF RADIATION FIELD OF HORIZONTAL MAGNETIC DIPOLE
AFCRL-63-516 N64-17844 10-09

FIELD STRENGTHS OF MAGNETIC DIPOLES IN CONDUCTING EARTH & PROPAGATION OF VERY LOW FREQUENCY WAVES IN SOLIDS AND LIQUIDS
AFCRL-64-144 N64-18586 11-12

VLF WAVE PROPAGATION IN HIGHLY CONDUCTING MEDIUM
AFCRL-64-145 N64-18903 11-23

MEASURING LOCAL ELECTRON DENSITY IN IONOSPHERE FROM OBSERVATIONS OF VLF WAVE FIELD - AEROBEE EXPERIMENT
TECH. REPT.-327-TC N64-19231 11-28

PROPAGATION OF EXTREMELY LOW AND VERY LOW FREQUENCY RADIO WAVES
AGARDOGRAPH-74 N64-19676 12-01

NATURE AND SIZE OF IRREGULARITIES IN D-LAYER OF IONOSPHERE OBSERVED ON NEAR VERTICAL VERY LOW FREQUENCY IONOSPHERIC SOUNDER N64-19682 12-12

VERY LOW FREQUENCY RADIO PROPAGATION FROM LOFTI I SATELLITE N64-19683 12-12

VERY LOW FREQUENCY ATMOSPHERIC NOISE IN ARCTIC N64-19690 12-12

RECORDING ATMOSPHERIC VERY LOW FREQUENCY RADIO NOISES AND DISTINGUISHING THEIR SOURCES N64-19691 12-12

DIURNAL VARIATION IN VERY LOW FREQUENCY RADIO PROPAGATION OVER SINGLE MODE PATHS N64-19692 12-12

THEORY OF VERY LOW FREQUENCY RADIO PROPAGATION BETWEEN SPHERICAL CONDUCTING EARTH AND CONCENTRIC ANISOTROPIC IONOSPHERE N64-19694 12-08

PHASE DEVIATION IN VERY LOW FREQUENCY RADIO SIGNALS AFTER IONOSPHERIC REFLECTION N64-19695 12-08

VERY LOW FREQUENCY RADIO PROPAGATION IN IONOSPHERE N64-19696 12-08

PHASE CHANGES IN VERY LOW FREQUENCY RADIO PROPAGATION DURING AND AFTER NUCLEAR EXPLOSION N64-19697 12-12

VERY LOW FREQUENCY RADIO PROPAGATION AND CLOCK SYNCHRONIZATION N64-19698 12-08

EXTREMELY LOW FREQUENCY MAGNETIC FIELD WAVES IN INHOMOGENOUS HYDROMAGNETIC MEDIUM N64-19700 12-12

EFFECT OF IONOSPHERE ON POLARIZATION OF VERY LOW AND EXTREMELY LOW FREQUENCY RADIO WAVES N64-19701 12-12

EXTREMELY LOW FREQUENCY OSCILLATIONS RECORDED WITH MAGNETOMETER N64-19702 12-12

EXTREMELY LOW FREQUENCY RADIO NOISE AND ALTITUDE ESTIMATES FOR LOWER EDGE OF IONOSPHERE N64-19705 12-12

ATMOSPHERIC NOISE AT VERY LOW FREQUENCIES FOR VARIOUS GEOGRAPHIC LOCATIONS
AD-428273 N64-19976 12-12

CONSTRUCTION, TESTING, AND DELIVERY OF VERY LOW FREQUENCY ENVELOPE TIMING APPARATUS
TD64-91 N64-20119 13-09

NORMAL PHASE VARIATIONS OF VERY LOW FREQUENCY SIGNALS OVER LONG PATHS
NBS-TN-206-2 N64-21212 14-08

SOLAR FLARE EFFECTS ON VERY LOW FREQUENCY PROPAGATION PATHS
NBS-TN-210 N64-21213 14-08

ELECTRIC FIELDS FROM AIRBORNE VERTICAL AND HORIZONTAL DIPOLE ANTENNAS AT VERY LOW FREQUENCIES
EE-105 N64-25520 17-09

FABRICATION OF MICROELECTRONICS FOR TINE AND FREQUENCY CONTROL SYSTEMS - VERY LOW FREQUENCY AND LOW FREQUENCY SYNTHESIZER
NDE-3572 N64-26089 18-09

MODEL STUDIES OF INFLUENCE OF IONOSPHERE PERTURBATIONS ON VERY LOW FREQUENCY PROPAGATION
AD-440475 N64-26943 18-08

VERY LOW FREQUENCY EMISSION OBSERVATION AT MOSHIRI N64-27104 19-12

VERY LOW FREQUENCY ENVELOPE TIMING EXPERIMENT
QPR-3 N64-27605 19-08

DIELECTRIC PROPERTIES OF ELECTRICAL INSULATING MATERIALS AT VERY LOW FREQUENCIES
N64-28518 20-07

OCCURRENCE OF VERY LOW FREQUENCY EMISSIONS DURING GEOMAGNETIC DISTURBANCES IN AURORAL ZONE
AFCRL-64-627 N64-28534 20-12

PHYSICAL PROPERTIES OF VERY LOW FREQUENCY EMISSIONS OBSERVED NEAR AURORAL ZONE
AFCRL-64-628 N64-28535 20-12

FIELD STRENGTH METER FOR VERY LOW FREQUENCY WAVES
AFCRL-64-479 N64-28553 20-15

CALCULATED DIFFRACTION EFFECTS AT VERY LOW FREQUENCY FROM LOCALIZED IONOSPHERIC DEPRESSION
NBS-TN-208 N64-28749 20-08

THEORY OF VERY LOW FREQUENCY /EXTREMELY LONG/ WAVE PROPAGATION
JPRS-26502 N64-30620 22-08

FLIGHT TESTS OF OMEGA VERY LOW FREQUENCY LONG-RANGE HYPERBOLIC RADIO NAVIGATION SYSTEM
NRL-MR-1543 N64-30739 22-08

DIRECTIVE VERY LOW FREQUENCY ANTENNAS FOR RECEPTION OF TRANSPOLAR SFERICS
AFCRL-63-371 N64-31636 23-08

WAVEGUIDE MODEL OF IONOSPHERIC PERTURBATION EFFECTS ON VERY LOW FREQUENCY ELECTROMAGNETIC PROPAGATION
AD-420379 N64-33428 24-08

USE OF SFERICS AS SIGNAL SOURCE IN MEASUREMENT OF VERY LOW FREQUENCY ANTENNA PATTERNS
NOLC-581 N64-33796 24-08

VESSEL
IMPROVED MANUFACTURING TECHNIQUES FOR INCREASED RELIABILITY OF FIELD EFFECT TRANSISTORS
QR-1 N64-13990 05-17

ABSOLUTE- AND REFERENCE-SYSTEM METHODS OF MEASURING CONTAINMENT-VESSEL LEAKAGE RATES
NASA-TN-D-1588 N64-30994 22-17

VESTIBULAR APPARATUS
PROTON AND GAMMA IRRADIATION EFFECT ON FUNCTION OF VESTIBULAR ANALYZER IN DOGS
JPRS-22120 N64-11273 02-16

STUDY OF VESTIBULAR SUPPRESSION PHENOMENA IN CATS
AMRL-TDR-63-119 N64-16810 08-16

EFFECTS OF UNUSUAL GRAVITATIONAL AND INERTIAL FORCE ENVIRONMENT ON VESTIBULAR AND VISUAL SYSTEMS
NASA-CR-56080 N64-20729 13-16

FUNCTIONAL DISTURBANCE OF VESTIBULAR APPARATUS AND IMPLICATIONS FOR MANNED SPACE FLIGHT
NASA-CR-53958 N64-20730 13-14

EXCITABILITY OF HUMAN VESTIBULAR ANALYZER UNDER CONDITIONS OF SHORT TERM WEIGHTLESSNESS
N64-23749 16-16

MINIMUM ARTIFICIAL GRAVITY NEEDED TO PREVENT EFFECTS OF WEIGHTLESSNESS ON VESTIBULAR APPARATUS
N64-23750 16-16

AUTONOMIC NERVOUS SYSTEM REACTIONS FROM STIMULATION OF VESTIBULAR ANALYZER
N64-23762 16-16

SENSITIVITY AND REACTIVITY OF VESTIBULAR ANALYZER UNDER INFLUENCE OF IONIZING RADIATION
N64-23769 16-16

FUNCTIONAL CONDITION OF VESTIBULAR APPARATUS OF WHITE RAT UNDER DAILY ROTATIONAL ACCELERATION STRESS
NASA-TT-F-9025 N64-27138 19-16

REACTION OF NEURONS OF VESTIBULAR NUCLEI TO STIMULATION OF VESTIBULAR APPARATUS THROUGH PASSIVE VERTICAL MOTION OF ANIMALS
JPRS-25896 N64-27323 19-16

SENSITIVITY OF VESTIBULAR ANALYZERS AND SENSORY REACTIONS IN MAN DURING BRIEF WEIGHTLESSNESS
N64-27633 19-16

EFFECT OF REPEATED MILD ANGULAR ACCELERATIONS IN TOTAL DARKNESS ON HUMAN VESTIBULAR NYSTAGMUS WHILE SUBJECTS PERFORM ATTENTION-DEMANDING TASKS
CARI-63-29 N64-29847 21-16

ELECTROPHYSIOLOGICAL STUDY OF VESTIBULAR APPARATUS MECHANISMS AND INTERCONNECTIONS BETWEEN CANALS AND NUCLEI IN MEDULLA OBLONGATA OF CATS
NASA-TT-F-9147 N64-33408 24-16

VESTIBULAR EFFECT
ANNOTATED BIBLIOGRAPHY OF TRANSLATIONS OF FOREIGN LANGUAGE ARTICLES ON NYSTAGMUS, VESTIBULAR STIMULATION, & CORIOLIS EFFECTS
N64-10432 01-16

EFFECT OF SPACE FLIGHT CONDITIONS ON FUNCTIONAL STATE OF VESTIBULAR TONIC & FLEXOR REFLEX IN GUINEA PIGS N64-11861 03-16

MORPHOLOGICAL & HISTOLOGICAL INVESTIGATION OF VESTIBULAR APPARATUS OF ANIMALS IN CHANGING GRAVITATIONAL FIELD N64-11862 03-16

NYSTAGMUS RESPONSES OF CATS TO ROTATION AND DIRECTIONAL STIMULI AFTER CALORIC HABITUATION OF ONE EAR - VESTIBULAR EFFECT
CARI-63-14 N64-11949 03-16

BIOINSTRUMENTATION CONTROL CENTER FOR VESTIBULAR RESEARCH PROGRAMS ON THE HUMAN DISORIENTATION DEVICE
NASA-CR-55615 N64-15353 07-16

INFLUENCE OF VESTIBULAR ORGANS ON ABILITY TO ALIGN VISUAL TARGET WITH HORIZONTAL
NASA-CR-55616 N64-15354 07-16

PERCEPTION OF POSTURAL VERTICAL AFTER PROLONGED BODILY TILT IN NORMALS & SUBJECTS WITH VESTIBULAR DEFECTS
NASA-CR-55614 N64-15355 07-16

VESTIBULAR DISORIENTATION DUE TO CORIOLIS ACCELERATION
NASA-CR-55784 N64-16331 08-16

NEW CONTROL AND DATA ACQUISITION INSTRUMENTATION FOR VESTIBULAR RESEARCH IN CENTRIFUGE-SLOW ROTATION ROOM FACILITY
NASA-CR-53341 N64-17788 09-16

HEMODYNAMIC RESPONSES TO VESTIBULAR STIMULATION BY ROTATION
FTD-TT-64-32/162 N64-22365 15-16

VISUAL PERCEPTION STUDY OF POSTURAL VERTICAL IN NORMALS AND SUBJECTS WITH VESTIBULAR DEFECTS
N64-22438 15-16

COMPARISON OF AUTONOMIC AND SOMATIC MOTOR OUTFLOW TO VESTIBULAR STIMULATION - MOTION SICKNESS STUDY
NASA-RP-215 N64-23377 16-16

EFFECTS OF VIBRATION AND IONIZING RADIATION ON VESTIBULAR AND MOTOR-DEFENSE REFLEXES
N64-23761 16-16

ACCELERATION CART TO STUDY HUMAN VESTIBULAR REACTION TO SMALL LINEAR ACCELERATIONS
NASA-CR-58128 N64-26596 18-16

VISUAL CONTROL OF ACCLIMATIZATION TO COMPLEX VESTIBULAR STIMULATION IN MAN
NASA-CR-56896 N64-27889 20-16

VIABILITY
EFFECT OF SPACE FLIGHT CONDITIONS IN SATELLITE ON PRESERVATION OF VIABILITY OF CHORELLA CULTURE
N64-11678 03-16

EFFECT OF SIMULATED SPACE ENVIRONMENTS ON VIABILITY OF MICROORGANISMS

NASA-CR-50333 N64-22752 16-16

EXISTENCE AND IDENTITY OF VIABLE MICROORGANISMS IN STRATOSPHERE
NASA-CR-50698 N64-22769 16-16

EFFECT OF SIMULATED SPACE ENVIRONMENT ON VIABILITY OF MICROORGANISMS - ULTRAVIOLET RADIATION EFFECT
NASA-CR-56525 N64-22786 16-16

VIABILITY OF MICROORGANISMS IN SIMULATED SPACE
NASA-CR-59092 N64-33099 24-16

VIBRATION
BIBLIOGRAPHY - SHOCK, VIBRATION, & DAMPING IN PACKAGING
TDCK-28650 N64-10462 01-33

ANALOG COMPUTER USE FOR SOLUTION OF EXTREMUM PROBLEMS IN PHYSICS - VIBRATION THEORY AND GAME THEORY
JPRS-19244 N64-10585 01-20

STRESS DISTRIBUTION IN COMPRESSOR BLADES DURING VIBRATION
FTD-TT-62-740/1&2 N64-11151 02-33

INFLUENCE OF INITIAL STRESS ON VIBRATIONS OF SIMPLY SUPPORTED CIRCULAR CYLINDRICAL SHELLS
PIBAL-673 N64-11759 03-33

INFLUENCE OF VIBRATION OF SPHERE ON CONVECTIVE HEAT & MASS EXCHANGE IN TURBULENT FLOW
N64-11968 03-13

RESPIRATORY PHYSIOLOGY OF VIBRATIONS OF VOCAL CORDS FROM TRACHEAL OUTER WALL VIBRATIONS
E-T-J-63-4 N64-12277 03-23

WING FLUTTER STUDY BY COMPUTATION OF WORK FROM FORCES & MOMENTS FOR PERIOD OF VIBRATIONS
FTD-TT-63-738/1&2 N64-12624 04-33

STRUCTURAL DYNAMICS OF NONLINEAR FLUTTER AND VIBRATIONAL PROBLEMS N64-13563 05-33

PROPELLER BLADE VIBRATION AND STRESS ANALYSIS - IBM 7090 PROGRAM
TECH. REPT.-283 N64-15421 07-03

ANALOG AND DIGITAL DATA REDUCTION METHODS FOR ANALYTICAL STUDY OF VIBRATION DATA
NASA-CR-55576 N64-15529 07-20

SURFACE COATING OF METAL OBJECTS BY VIBRATING-ARC WELDING
FTD-TT-62-1250/1&2 N64-16343 08-17

VIBRATION GRINDING OF METALS AND ALLOYS
FTD-TT-63-44/1&2 N64-16411 08-17

STATIC AND VIBRATIONAL TENSILE PROPERTIES OF NYLON AND MYLAR ROPE
FTDM-3159 N64-16638 08-19

SHOCK, VIBRATION, & DYNAMIC RESPONSE OF VEHICLES AND WEAPON SYSTEMS TO ENVIRONMENTS
AD-432931 N64-18534 11-33

RELIABILITY AND MAINTAINABILITY OF MILITARY EQUIPMENT IN SHOCK & VIBRATION ENVIRONMENT - MILITARY TECHNOLOGY N64-18535 11-17

SHOCK AND VIBRATION TECHNOLOGY APPLIED TO MILITARY WEAPON SYSTEMS N64-18536 11-33

VIBRATION PREDICTION FOR JET POWERED VEHICLES AND APPLICATION TO F-111 AIRCRAFT N64-18539 11-33

COMBUSTION VIBRATION IN LIQUID FUEL ROCKET ENGINES AND JET ENGINES
FTD-TT-62-942/1&2 N64-18890 11-26

CORRELATION OF LAUNCH VEHICLE WIND TUNNEL AERODYNAMIC NOISE WITH SPACECRAFT FLIGHT VIBRATION DATA
NASA-CR-53922 N64-19898 12-23

DESIGN OF SERVOMAGNETIC SUPPORT BEARING FOR ROTATING MACHINERY - REDUCTION OF FLEXURAL VIBRATION
EMI-3421-105-64U N64-20389 13-17

LOW FREQUENCY VIBRATIONS OF BENZENE COMPOUNDS STUDIED BY INFRARED SPECTRA
ASD-TDR-63-869 N64-20396 13-23

LIQUID SURFACE LOW FREQUENCY OSCILLATIONS IN LONGITUDINALLY VIBRATED CYLINDRICAL TANK
NASA-CR-56135 N64-20721 13-11

VIBRATIONAL AND ROTATIONAL ENERGY LEVELS IN ATOMIC AND MOLECULAR SYSTEMS IN SOLID STATE
WR-AF-5 N64-21435 14-25

VIBRATION DATA COLLECTED ON JET FIGHTERS AND LIGHT ATTACK BOMBERS
AD-297924 N64-21508 15-15

VACUUM VIBRATORS FOR MASS SPECTROMETER
ML-TDR-64-75 N64-21672 15-09

NONLINEAR STRUCTURAL VIBRATION OF BEAMS, ROTOR BLADES, AND COMPOSITE SYSTEMS
FTD-TT-62-1197/1&2 N64-22039 15-34

FREE VIBRATIONS OF SIMPLY SUPPORTED TRUNCATED CONICAL SHELL
SSD-TDR-64-15 N64-22318 15-33

STRUCTURE OF RADIATION-RESISTED SHOCK WAVES WITH VIBRATIONAL NONEQUILIBRIUM
SSD-TDR-64-78 N64-22558 15-11

FLIGHT VIBRATION DATA OF AEROBEE 150A SOUNDING ROCKET
NASA-TN-D-2314 N64-23025 F6-04

SOLID PROPELLANT DYNAMIC PROPERTIES AND EFFECT ON VIBRATION RESPONSE OF MODEL SOLID PROPELLANT STRUCTURES N64-23160 16-26

VIBRATIONAL ENERGY LOSSES AT JOINTS IN METAL STRUCTURES N64-23162 16-33

SPACE VEHICLE STRUCTURES FOR VIBRATION AND ACOUSTIC ENVIRONMENT N64-23163 16-33

QUANTUM THEORY OF VIBRATIONAL ENERGY EXCHANGE - TRANSITION PROBABILITIES ASSOCIATED WITH INELASTIC COLLISIONS OF ATOMS N64-23208 16-23

VIBRATIONS OF VISCOUS LIQUIDS IN CYLINDRICAL CAVITY IN HORIZONTAL MOTION N64-23564 16-11

VIBRATION PERIOD OF RESTRICTED RELEASING REGULATOR N64-23565 16-23

BEARING CLEARANCE & MASS ECCENTRICITY EFFECT ON ROTOR VIBRATION N64-23566 16-17

EFFECTS OF VIBRATION AND IONIZING RADIATION ON VESTIBULAR AND MOTOR-DEFENSE REFLEXES N64-23761 16-16

EXTERNAL FORCE EFFECT ON VIBRATING PIEZOELECTRIC CRYSTAL PLATES
REPT.-11 N64-24090 16-25

SHOCK AND VIBRATION IN SPACE ENVIRONMENT BIBLIOGRAPHY
SB-63-24 N64-24920 17-02

NATURAL FREQUENCIES FOR AXISYMMETRIC VIBRATION OF DEEP SPHERICAL CAP
AMRA-TR-63-23 N64-25018 17-33

VIBRATION STUDIES OF COMPRESSOR FOUNDATION STRUCTURE
NAL-TN-AE-19-63 N64-26536 18-33

VIBRATION STUDY OF TWO RING-STIFFENED CYLINDRICAL SHELLS FOR NOISE FACILITY TEST CHAMBER
NASA-TN-D-2398 N64-27201 19-33

FREE VIBRATIONS OF THIN ELASTIC SHELLS - BIBLIOGRAPHY
NASA-CR-50048 N64-27313 19-33

ENERGY METHOD FOR PREDICTION OF HIGH FREQUENCY NOISE AND VIBRATION TRANSMISSION
N64-27403 19-33

LATERAL VIBRATIONS OF AIRCRAFT RESULTING FROM WIND
FTD-MT-63-118 N64-28168 20-04

NATURAL FREQUENCY OF VIBRATION OF COMPRESSOR FOUNDATION AND ISOLATION FROM ENVIRONMENT
NAL-TN-AE-22-63 N64-28980 20-33

VIBRATION AND STABILITY OF RIBBED CYLINDRICAL SHELLS IN COMPRESSIBLE LIQUID FLOW
FTD-TT-63-647/1 N64-29027 21-33

EFFECTS ON GRAIN SIZE OF VIBRATION DURING POURING OF MOLTEN ALLOYS TO FORM CASTINGS
N64-29049 21-18

ELASTIC VIBRATIONS OF PARABOLOIDAL SHELLS OF REVOLUTION
AD-402926 N64-29920 21-33

GEOGRAPHICAL ORIENTATION, OPERATIONAL PROBLEMS, HUMAN PERFORMANCE DURING VIBRATION, AND PHYSICAL AND GEOMETRIC PARAMETERS AFFECTING VISIBILITY IN LOW ALTITUDE HIGH SPEED FLIGHT
ACR-95 N64-31508 23-14

VIBRATIONS OF SOLID ISOTROPIC ELASTIC CYLINDERS
NRE-63/4 N64-32155 23-33

SHEAR & ROTARY INERTIA EFFECTS ON BEAM VIBRATION
DTMB-1822 N64-32294 23-33

RELATIVE POPULATIONS OF VIBRATION LEVEL AND ROTATIONAL TEMPERATURE OF NITROGEN RADICAL SYSTEM
N64-32715 24-12

MATHEMATICAL MODEL OF TURBULENCE-INDUCED PANEL VIBRATION
AFOSR-64-0883 N64-32975 24-33

WEAR AND VIBRATION TESTS OF SLIP RING ASSEMBLIES
NASA-CR-58686 N64-33045 24-17

CORRELATION BETWEEN WIND TUNNEL AERODYNAMIC NOISE DATA FOR LAUNCH VEHICLE AND IN-FLIGHT VIBRATION DATA
NASA-CR-58776 N64-33158 24-31

QUALITATIVE ANALYSIS OF BUBBLE BEHAVIOR IN VERTICALLY VIBRATING LIQUID TANK
NASA-CR-59234 N64-33511 24-11

EFFECT OF SOLVENTS ON SILICON HYDROGEN STRETCHING VIBRATION STUDIED WITH INFRARED SPECTROPHOTOMETER
GNE/PHYS/64-17 N64-33817 24-07

VIBRATION ABSORBER
NOISE REDUCTION AND CONTROLLED VIBRATION IN SHIPS
JPRS-18177 N64-11315 02-23

REDUCTION OF VIBRATION FROM ROTOR UNBALANCE BY USE OF FORCE CANCELING - VIBRATION ABSORBER
N64-23158 16-33

VIBRATION DAMPER
DAMPING TREATMENTS FOR ATTENUATING NOISE & VIBRATION
ISAV-MEMO-102 N64-13089 04-23

VIBRATION DAMPING
VIBRATION DAMPING DEVICE FOR RELAY SATELLITE
IAC PAPER-137 N64-11895 03-32

VIBRATION OF LINEARLY DAMPED PLATE, RADIATING SOUND INTO FLUID MEDIUM
AD-423762 N64-12976 04-11

SHOCK AND VIBRATION ISOLATION FOR SATELLITE TAPE RECORDERS
NASA-TM-X-942 N64-15921 07-15

VIBRATION ANALYSIS OF SANDWICH PLATE WITH LINEAR DAMPING PROPERTIES
DBIR-103 N64-17464 09-23

SUBSTITUTE SYSTEM FOR ELIMINATING VIBRATION IN AIRCRAFT
DVL-268 N64-19805 12-0

VIBRATIONAL ALIGNMENT AND DAMPING IN COAXIAL ROTORS WITH DIFFERENT ANGULAR VELOCITIES
FTD-TT-64-75/1&2 N64-21969 15-1

CAUSES AND METHODS OF REDUCTION OF MISSILE VIBRATION N64-24886 17-1

VIBRATION DAMPING AND ADHESIVE STRESS REDUCTION FOR ALLEVIATION OF SONIC FATIGUE
LB-31451 N64-25896 18-1

MATRIX ANALYSIS OF VIBRATIONAL THEORY OF DAMPED LINEAR DYNAMIC SYMMETRIC OR NONSYMMETRIC SYSTEMS
N64-25954 18-2

DAMPING CONSTANTS OF ONE- TO THREE-DIMENSIONAL VIBRATING SYSTEMS
DTMB-1770 N64-26241 18-2

SUITABILITY OF MATERIAL FOR DAMPING MECHANICAL VIBRATIONS IN LIGHT STEEL PLATING
REPT.-94-52 N64-26293 18-3

ENVIRONMENTAL TESTING OF VIBRATION DAMPING PROPERTIES OF PLASTICIZED, GRAPHITE FILLED VINYL CHLORIDE & ACETATE COPOLYMER COATED STAINLESS STEEL
REPT.-94-43 N64-27186 19-1

EFFECTIVENESS OF VIBRATION DAMPING AND ISOLATION METHODS IN REDUCING DYNAMIC RESPONSE OF SCALE MODELS OF NIMBUS SATELLITE
NASA-TN-D-2418 N64-27360 19-2

METAL LAMINATES WITH HIGH VIBRATION DAMPING FOR FAIRWATER AND SUPERSTRUCTURE PLATES ON SUBMARINES
REPT.-94-53 N64-28810 20-1

UNCONSTRAINED LAYER DAMPING TREATMENTS ON VIBRATING PLATES - EFFECT OF CONCENTRATED TREATMENT IN REGIONS OF HIGHEST BENDING MOMENT
ML-TDR-64-51 N64-33911 24-2

VIBRATION EFFECT
VIBRATION EFFECT ON METABOLIC SYSTEMS AND THERMA DEHYDRATION OF SALTS
JPRS-18576 N64-10780 02-1

PATHOLOGICAL AND MORPHOLOGICAL CHANGES OF NERVOUS SYSTEM CAUSED BY VIBRATION N64-10781 02-1

VIBRATION STIMULUS TEST OF NEUROMUSCULAR, CENTRAL NERVOUS AND CARDIOVASCULAR SYSTEMS
N64-10782 02-1

VIBRATIONS OF ELASTIC STRUCTURES OF CIRCULAR CYLINDRICAL FORM IN SUPERSONIC FLUID FLOW
FTD-TT-63-744/1&2&3 N64-12631 04-1

EFFECTS OF EXTERNALLY APPLIED PHYSICAL VIBRATION ON TISSUES OF DOG EYE
AMRL-TDR-63-120 N64-14696 06-1

MOTION OF GAS BUBBLES IN VERTICALLY VIBRATING LIQUIDS
NASA-CR-55575 N64-15389 07-1

WHOLE-BODY VIBRATION EFFECT ON VISUAL PERFORMANCE
D3-3512-4 N64-15855 07-1

MOVEMENTS OF STATICALLY BALANCED GYROSCOPE IN CARDAN SUSPENSION MOUNTED ON VIBRATING BASE - FORMULATION OF EQUATIONS OF MOTION
FTD-TT-62-1280/1&2 N64-16055 07-2

VIBRATION ENVIRONMENT, HUMAN TOLERANCE TO EXTREME VIBRATIONAL STRESS, & EFFECT OF VIBRATION ON OPERATOR PERFORMANCE - ABSTRACTS
N64-16874 09-1

EFFECT OF VIBRATION AND RESTRAINT ON BODY WEIGHT AND SURVIVAL OF ALBINO RAT
REPT.-5 N64-29583 21-1

EFFECTS OF LOW FREQUENCY MECHANICAL VIBRATIONS O BLOOD CHANGES IN WHITE RATS

FTD-TT-64-242/1 N64-30703 22-16

WHOLE-BODY VIBRATION EFFECT ON PLASMA AND URINARY CORTICOSTEROID LEVELS IN MAN
AMRL-TDR-64-53 N64-31942 23-16

ENDOCRINE AND METABOLIC RESPONSE OF RESTRAINED DOGS TO WHOLE-BODY VIBRATION
AMRL-TDR-64-54 N64-31943 23-16

VIBRATION EFFECTS ON HUMAN PERFORMANCE OF DIAL READING
CAL-VH-1838-E-1 N64-32208 23-14

PHYSICAL EFFECTS ON HUMAN BODY OF VIBRATIONS AND SOUND CAUSED BY MECHANICAL AND ELECTRICAL TOOLS
JPRS-26922 N64-32305 23-33

FIELD TESTS TO REDUCE VIBRATION EFFECTS IN JET ENGINES
AD-603141 N64-33795 24-33

VIBRATION MEASUREMENT
EQUATION FOR ACCELERATION OF LONGITUDINAL, ROTARY, AND LATERAL VIBRATION OF SHOCK ABSORBER BY IMPACT LOAD N64-13576 04-15

COMPUTER PROGRAM FOR SOLUTION OF FLUTTER AND VIBRATION PROBLEMS FOR MULTIPLE COMPONENT SYSTEM
SSD-TDR-63-158 N64-13628 05-33

VIBRATION CHARACTERISTICS OF BALL AND ROLLER BEARINGS
AL63L023 N64-17483 09-17

VIBRATION SPECIFICATIONS FROM MEASURED VIBRATION LEVELS
NASA-TM-X-51522 N64-17798 09-30

PRELAUNCH & FLIGHT VIBRATION MEASUREMENTS ON THOR VEHICLES N64-18540 11-30

SHOCK AND VIBRATION ENVIRONMENTAL SIMULATION AND TESTING
AD-435514 N64-20235 13-01

CALIBRATORS FOR ACCEPTANCE AND QUALIFICATION TESTING OF VIBRATION MEASURING INSTRUMENTS N64-20240 13-15

COMBINING SINE & RANDOM VIBRATION IN ENVIRONMENTAL TEST LABORATORY N64-20249 13-34

COMBINED HIGH TEMPERATURE-VIBRATION TESTING TECHNIQUES N64-20254 13-33

VIBRATION TEST STAND FOR ENVIRONMENTAL CHAMBER N64-20256 13-10

PROPANE FURNACE AS HEAT SOURCE IN HIGH TEMPERATURE VIBRATION TESTING N64-20257 13-10

DETERMINING SHOCK AND VIBRATION SPECIFICATIONS FROM FIELD VIBRATION DATA N64-20259 13-33

OPTIMUM VIBRATION TEST SPECIFICATION FOR AEROSPACE ELECTRONIC EQUIPMENT N64-20260 13-33

DETERMINING COMPONENT RELIABILITY FROM VIBRATION TESTS N64-20261 13-17

SINUSOIDAL VIBRATION TESTING OF NONLINEAR SPACECRAFT STRUCTURES N64-20262 13-33

VIBRATION QUALIFICATION TESTS AND PROBABILITY OF FAILURE N64-20263 13-33

CONTROLLING GENERAL PURPOSE VIBRATION TEST N64-20264 13-33

PREDICTED AND MEASURED VIBRATION ENVIRONMENT FOR SKYBOLT GUIDANCE EQUIPMENT N64-20265 13-22

COUPLING OF SOUND AND PANEL VIBRATION BELOW CRITICAL FREQUENCY
NASA-CR-53605 N64-20733 13-23

CORIOLIS EFFECTS IN VIBRATION AND SPIN TESTING IN CENTRIFUGE
NASA-TN-D-1914 N64-21422 14-10

STRUCTURAL VIBRATION MEASUREMENTS ON DORNIER DO-27 AIRCRAFT
DFL-230 N64-21521 15-33

VIBRATION TEST & DYNAMIC BEHAVIOR OF SATURN SA-6 FLIGHT VEHICLE
NASA-TM-X-53029 N64-22464 15-33

SHOCK AND VIBRATION TESTING - MECHANICAL AND PYROTECHNIC SHOCK, FLIGHT ENVIRONMENT PREDICTION, AND INSTRUMENTATION
AD-433726 N64-23151 16-01

MECHANICAL IMPEDANCE SIMULATION IN SHOCK AND VIBRATION TESTING N64-23152 16-23

STATISTICAL TECHNIQUE FOR DESCRIBING LOCALIZED VIBRATORY ENVIRONMENTS OF ROCKET VEHICLES
NASA-TN-D-2158 N64-25708 17-30

POWER SPECTRAL DENSITY FUNCTION IN ANALYSIS OF FLIGHT VEHICLE VIBRATION DATA
NASA-CR-90 N64-30830 22-33

ACOUSTIC VIBRATION MEASUREMENTS FOR CALIBRATION OF SONAR TRANSDUCERS
BBN-1135 N64-33250 24-15

VIBRATION MEASURING APPARATUS
DESIGN OF HELICOPTER VIBRATION MEASURING APPARATUS
TRECOM-TR-63-44 N64-13847 05-04

VIBRATING SAMPLE MAGNETOMETER CAPABLE OF MEASURING SMALL SAMPLE MAGNETIZATION AS FUNCTION OF TEMPERATURE
AFCRL-64-13 N64-19139 11-15

VIBROGRAPH MEASUREMENT OF OVERALL VIBRATION N64-22730 16-16

VIBRATION MODE
FLUTTER ANALYSIS OF FAILURE AND VIBRATIONAL MODE FOR AIRCRAFT N64-13552 05-01

NATURAL VIBRATIONAL MODE AND FREQUENCY EFFECT ON AIRCRAFT STRUCTURES N64-13555 05-33

VIBRONIC SPECTRA OF BIVALENT SAMARIUM IN STRONTIUM AND BARIUM FLUORIDE HOSTS - MODEL FOR ANALYSIS OF VIBRONIC TRANSITIONS
TDR-169/3250-24/TN-3 N64-13777 05-25

VIBRATION MODES OF ANISOTROPIC HEXAGONAL METALLIC ZINC CRYSTALS
AMRA-TR-63-19 N64-14690 06-25

FREQUENCIES AND MODES OF VIBRATION OF BUCKLED CIRCULAR PLATES
NASA-TN-D-2245 N64-14987 06-33

VIBRATION DATA ON SHIPS AND SUBMARINES N64-18554 11-10

NORMAL MODES OF VIBRATION OF NONLINEAR CONTINUOUS SYSTEMS N64-24995 17-33

NATURAL VIBRATION MODES FOR LARGE COMPLEX STRUCTURES
NASA-CR-58540 N64-28747 20-33

VIBRATION SIMULATOR
EQUALIZATION TECHNIQUE FOR RANDOM VIBRATION TESTING MACHINES N64-20251 13-10

SIMULATION OF REVERBERANT ACOUSTIC /RANDOM NOISE/ TESTING BY VIBRATION SHAKER N64-20253 13-10

VIBRATION TESTING
TRANSPORTATION VIBRATION TESTING OF PERSHING MISSILE TACTICAL SHIPPING AND STORAGE CONTAINERS
RT-TR-63-9 N64-11770 03-04

TRANSPORTATION-VIBRATION TEST FOR SHIPPING AND STORAGE CONTAINERS OF PERSHING MISSILE SYSTEM
RT-TR-63-10 N64-12223 03-06

RIGID BODY VIBRATIONS OF ROCKET SLEDS AND SHAKE

TEST METHOD OF OBTAINING INERTIA AND ELASTIC CONSTANTS
MDC-TDR-63-1 N64-12938 04-33

DESIGN OF ORBITAL HYDROGEN-OXYGEN CAPILLARY TYPE FUEL CELL - OPERATION AND VIBRATION TESTING OF PACKAGE AND COMPONENTS
AD-423722 N64-13104 04-06

VIBRATION TESTING OF LINEAR AND NONLINEAR STRUCTURES AND INTERNAL DAMPING BY HARMONIC EXCITATION N64-13557 04-33

VIBRATION TESTING OF STRUCTURES BY TRANSIENT EXCITATION IN CONNECTION WITH FLIGHT FLUTTER ANALYSIS N64-13558 05-33

FAILURE OF PERSHING MISSILE SYSTEM TACTICAL SHIPPING AND STORAGE CONTAINER COMPONENTS DURING TRANSPORTATION VIBRATION TESTS
RT-TR-63-8 N64-14773 06-30

MECHANICAL AND PHOTOELASTIC BEHAVIOR OF BIREFRINGENT BAR SUBJECTED TO VIBRATIONS N64-16205 08-23

VIBRATION TESTING OF SATURN LAUNCH VEHICLE
NASA-TM-X-54641 N64-16709 08-30

PEAK RESPONSE AND NUMBER OF CYCLES OF SINGLE-DEGREE-OF-FREEDOM SYSTEM PLOTTED FOR SEVERAL DAMPING CONDITIONS - VIBRATION TESTING N64-18561 11-33

TESTING OF WING MODEL WITH HIGH TRANSIENT HEATING N64-29270 21-33

QUARTZ CRYSTAL RELIABILITY TESTING - SYSTEM FAILURE ANALYSIS
REPT.-4 N64-29412 21-17

DIGITAL SELECTOR SWITCH MODULES FOR VIBRATION ENVIRONMENTAL TESTING
AD-447841 N64-32169 23-09

VIBRATION TESTING OF RESILIENT PACKAGE CUSHIONING MATERIALS
TR-3160 N64-33725 24-33

VIBRATION TESTING MACHINE

MEASUREMENT OF SHEARING STRESSES OF SOILS WITH VIBRATION TESTING MACHINE
CRREL-90 N64-18884 11-12

STABILIZATION OF REACTION VIBRATION MACHINE TO PLANAR SIMPLE HARMONIC MOTION N64-20250 13-10

EQUALIZATION TECHNIQUE FOR RANDOM VIBRATION TESTING MACHINES N64-20251 13-10

VIBRATIONAL FREQUENCY

VOCAL SOUND PITCH VARIATIONS OBSERVED FROM VIBRATIONS IN TRACHEAL OUTER WALL
E-T-J-63-5 N64-15374 07-16

VIBRATION STUDY OF HEATED STRUCTURE BY TRANSIENT EXCITATION AND WAVE ANALYSIS
NAEC-ASL-1068 N64-15568 07-33

VIBRATIONAL FREQUENCY OF FLEXIBLE WING WITH AILERON - TORSIONAL VIBRATION
FTD-MT-63-133 N64-18681 11-33

EFFECT OF EXTERNAL FORCES ON SINGLE VIBRATIONAL FREQUENCY IN COMPUTERS WITH MULTIPLE-DEGREE-OF-FREEDOM SYSTEM - MATRIX ALGEBRA - U.S.S.R.
JPRS-24138 N64-18965 11-23

NONLINEARITY OF OUTPUT FREQUENCY AS FUNCTION OF INPUT FOR VIBRATING STRING MEASURING INSTRUMENTS USING QUADRATIC TRANSDUCERS N64-24523 17-15

ASYMPTOTIC METHOD TO DETERMINE NATURAL FREQUENCIES OF VIBRATION OF CONTINUOUS PLATES N64-30423 22-33

VIBRATIONAL RELAXATION

CALCULATION OF CROSS SECTIONS FOR VIBRATIONAL EXCITATION OF CARBON DIOXIDE BY COLLISION WITH NITROGEN
GDA-DBE-64-004 N64-18624 11-23

EFFECTS OF CONCENTRATION AND VIBRATIONAL RELAXATION ON INDUCTION PERIOD OF OXYGEN AND HYDROGEN CHEMICAL REACTIONS
NASA-TM-X-52022 N64-20548 13-23

VIBRATIONAL RELAXATION AND RECOMBINATION OF NITROGEN AND AIR IN HYPERSONIC NOZZLE FLOWS
REPT.-63-RL-/3429C/ N64-21734 15-11

ONE DIMENSIONAL, CHEMICALLY REACTING FLOWS WITH MOLECULAR VIBRATIONAL RELAXATION
GASL-TR-426 N64-24983 17-11

UNSTEADY SHOCK WAVE PROPAGATION IN RELAXING GAS N64-26128 18-11

EFFECTS OF VIBRATIONAL RELAXATION ON HYPERSONIC NOZZLE FLOWS N64-26129 18-02

RELAXATION OF VIBRATIONAL ENERGY OF AIR MOLECULES BEHIND DIRECT SHOCK WAVE FRONT
NASA-TT-F-8933 N64-27364 19-11

VIBRATIONAL RELAXATION OF NITROGEN IN HYPERSONIC WIND TUNNEL
NOLTR-63-221 N64-27955 20-11

VIBRATIONAL RELAXATION IN HYDROGEN CHLORIDE
AFCRL-64-559 N64-31070 22-11

VIBRATIONAL SPECTRUM

LATTICE VIBRATION SPECTRUM OF VANADIUM
EUR-366.E N64-10252 01-23

VIBRONIC SPECTRA OF BIVALENT SAMARIUM IN STRONTIUM AND BARIUM FLUORIDE HOSTS - MODEL FOR ANALYSIS OF VIBRONIC TRANSITIONS
TDR-169/3250-24/TN-3 N64-13777 05-23

COMPUTER PROGRAMS FOR CALCULATING RELATIVE INTENSITIES IN VIBRATIONAL STRUCTURE OF ELECTRONIC TRANSITIONS
UCRL-10925 N64-17292 09-23

ISOTOPE SHIFTS AND VIBRATIONAL STRUCTURE IN SOME WEAKER SYSTEMS OF NITROGEN N64-30306 22-23

RANDOM VIBRATION SPECTRUM OF NONLINEAR OSCILLATOR
AFOSR-64-1057 N64-30914 22-10

VIBRATIONAL SPECTRUM, STRUCTURE, AND FORCE CONSTANTS OF NITRIC ACID
AFCRL-64-651 N64-31373 23-07

HYDROXYL EMISSION WITH DIFFERENT VIBRATIONAL EXCITATION N64-32706 24-12

VIBRATIONAL STRESS

PHYSIOLOGICAL RESPONSE OF CARDIOVASCULAR SYSTEM TO VIBRATION STRESS OF SPACE FLIGHT N64-11698 03-14

EQUATIONS OF AXISYMMETRIC VIBRATIONAL FORCES ON LIQUID-FILLED THIN-WALLED CYLINDRICAL SHELLS
NASA-TT-F-219 N64-25173 17-11

X-RAY DIFFRACTION MEASUREMENTS OF CRYSTAL ORIENTATION RATE IN CRYSTALLINE POLYMERS SUBJECTED TO VIBRATIONAL STRESS
ONR-TR-69 N64-30175 21-23

VIBRATORY FINISHING

VIBRATORY FINISHING OF EDGES OF PUNCHED METAL PARTS
JPRS-24468 N64-21693 15-17

VIBRATORY LOADING

MATHEMATICAL ANALYSIS OF ELASTIC PLATE VIBRATIONS N64-28401 20-11

VIBROCARDIOGRAM

TESTING HEART FUNCTION BY ANALYSIS OF ITS PRECORDIAL VIBRATION SPECTRUM
NASA-CR-53818 N64-19313 12-10

MEASUREMENT OF ISOMETRIC CONTRACTION AND EJECTION

TIME BY VIBROCARDIOGRAM OF ANESTHETIZED DOG
N64-21346 14-16

VIDEO DATA
BEACON VIDEO CHANNEL PERFORMANCE OF FAA RML-4 RADAR MICROWAVE LINK
CER-D1695 N64-14910 06-08

BINARY TO VIDEO DATA CONVERTER
RADC-TDR-63-427 N64-18565 11-09

TRAVELING IMAGE DISPLAY DEVICE FOR CONTINUOUS REAL TIME OBSERVATION OF VIDEO INFORMATION FROM LINE SCAN SYSTEMS
IER-1 N64-22211 15-09

ELECTRONIC INDICATOR FOR SIGNAL TO NOISE RATIO PULSED SYSTEM RECEIVER VIDEO OUTPUT
N64-22824 16-09

VIDEO EQUIPMENT
VIDEO DETECTION TECHNIQUES FOR MILLIMETER AND SUBMILLIMETER WAVES
RADC-TDR-64-28 N64-17962 10-08

ELECTROLUMINESCENT VIDEO DISPLAYS - SOLID STATE TELEVISION RECEIVERS
GE/EE/63-22 N64-31233 22-09

OBTAINING LOGARITHMIC AMPLITUDE RESPONSE CURVE IN TRANSISTORIZED VIDEO AMPLIFIER N64-31364 23-09

AUTOMATIC TARGET DATA PROCESSOR - RADAR VIDEO DIGITIZER AND AZIMUTH DIGITIZER
RD-64-124 N64-33994 24-08

VIDICON
PHOTOGRAPHING OF LUNAR SURFACE WITH INFRARED VIDICONS
JPRS-20223 N64-11222 02-05

SPACE ASTRONOMY AND THE SLOW-SCAN VIDICON SYSTEM
NASA-CR-53053 N64-14846 06-15

FABRICATION AND PERFORMANCE OF VIDICON TARGET WITH THIN INSULATOR LAYER
AL-TDR-64-93 N64-21414 14-25

HIGH RESOLUTION CAMERA TUBES USING VIDICON PHOTOCONDUCTIVE TARGETS
AL-TDR-64-171 N64-26172 18-08

COMPUTER PROCESSING OF DIGITIZED SATELLITE VIDICON CLOUD PICTURES
NSL-26 N64-26492 18-32

IMAGE ORTHICON AND VIDICON TELEVISION CAMERA TUBES
NASA-TT-F-9103 N64-31330 22-15

VIDICON PERFORMANCE CHARACTERISTICS FOR PICTURE TRANSMISSION AT VARIOUS ILLUMINATION LEVELS
N64-33800 24-15

VIGILANCE
CONDITIONS AFFECTING VIGILANCE BEHAVIOR AND RELATION TO VARIATION IN DETECTION RESPONSE
HUMRRO-RB-10 N64-13106 04-16

EFFECT OF REFERENCE DISPLAY ON HUMAN DETECTION PERFORMANCE IN VISUAL VIGILANCE TASK
TR-750-2 N64-20409 13-14

HUMAN PERFORMANCE IN LONG TESTS OF VIGILANCE USING SIMULATED RADAR SCREEN
ESD-TDR-63-320 N64-21081 14-14

RELATION OF HUMAN PERFORMANCE IN AUDITORY VIGILANCE TO CHANGES IN REINFORCEMENT
TR-19 N64-27097 19-14

EFFECTS OF VISUAL DISPLAY MODE AND MONITORING ON PERFORMANCE IN COMPLEX VIGILANCE TASK
SAM-TDR-64-34 N64-29794 21-14

VINTI THEORY
ALGORITHM FOR POSITION AND VELOCITY COORDINATES OF ZONAL HARMONIC PERTURBATIONS OF ACCURATE REFERENCE ORBIT USING VINTI THEORY
NASA-TM-X-55021 N64-27255 19-23

VINYL POLYMER
POLYVINYL PYRROLIDINE EFFECTIVENESS IN REDUCING RETENTION OF RADIOISOTOPES IN BODY
N64-10039 01-16

METHOD FOR LINING STEEL TUBES WITH VINYL PLASTIC
JPRS-17468 N64-10559 01-17

VISCOSITY, CONDUCTIVITY, AND HYDROGEN ION CONCENTRATIONS IN WATER SOLUTIONS OF VINYLPYRIDINE COPOLYMER WITH METHACRYLIC ACID
FTD-TT-62-1572/1&2&4 N64-22149 15-07

STRESS-STRAIN BEHAVIOR, SHORE-D HARDNESS, AND OXYGEN SORPTION OF POLY/N-VINYL CARBAZOLE/ AS FUNCTION OF NUCLEAR RADIATION ABSORPTION
NARF-63-14T N64-29811 21-19

VIRIAL THEOREM
QUANTUM MECHANICAL FORM OF VIRIAL EXPANSION
N64-15602 07-23

THERMODYNAMIC PROPERTIES OF NITROGEN IN CHEMICAL EQUILIBRIUM INCLUDING SECOND VIRIAL CORRECTIONS AT VERY HIGH TEMPERATURES
AEDC-TDR-63-162 N64-17127 09-23

VIRTUAL WORK
VIRTUAL ORBITAL METHOD USING HARTREE-FOCK CALCULATIONS APPLIED TO DETERMINATION OF MOLECULAR ENERGY
QSR-6 N64-25315 17-23

VIRUS
INHIBITING ACTION OF DEOXYRIBONUCLEASE ON ADENOVIRUSES
JPRS-22050 N64-12883 04-16

INHIBITING CAPACITY OF DEOXYRIBONUCLEASE ON ADENOVIRUSES IN TISSUE CULTURE N64-12884 04-16

THERAPEUTIC VALUE OF DEOXYRIBONUCLEASE IN TREATMENT OF PATIENTS WITH ADENOVIRUS CONJUNCTIVITIS N64-12885 04-16

INOCULATION OF DOG LIVER WITH VIRUS FOR SUSCEPTIBILITY TEST
LF-10 N64-13344 04-16

EXAMINATION OF GROUND SQUIRREL EXCRETION FOR ANIMAL & BACTERIAL VIRUSES
TN-62-12 N64-13988 05-16

INFLUENCE OF HIBERNATION ON COXSACKIE VIRUS INFECTIONS IN ALASKAN GROUND SQUIRREL
AAL-TDR-63-25 N64-31935 23-16

CHEMICAL COMPOSITION OF UREA-EXTRACTABLE COMPONENTS OF PLAGUE VIRUS EV
JPRS-26858 N64-32165 23-16

VISCERA
EFFECT OF ANESTHESIA, HIGH OXYGEN AND FEEDING ON RESONANT FREQUENCIES OF VISCERAL ORGANS
AMRL-TDR-64-14 N64-22328 15-16

VISCOELASTIC CYLINDER
COMPLEX SHEAR MODULUS OF HOMOGENEOUS, ISOTROPIC AND LINEARLY VISCOELASTIC MATERIAL /CYLINDER/
NASA-CR-58238 N64-29704 21-33

TORSIONAL VIBRATIONS OF HOLLOW VISCOELASTIC CYLINDER
BRL-MEMO-1570 N64-30165 21-33

VISCOELASTIC DAMPING
VISCOELASTIC DAMPING EFFECTIVENESS OF ADHESIVE SUPPORT OF BUILT-IN CIRCULAR PLATES
ASD-TDR-63-648 N64-12049 03-11

INFLUENCE OF VISCOELASTIC DAMPING ON AIRCRAFT RESONANCE N64-13556 05-33

VISCOELASTIC FLOW
CONSTRAINED TURBULENT SHEAR FLOWS OF NEWTONIAN FLUID SOLVENTS WITH POLYMER SOLUTES - ELASTIC VISCOUS FLUIDS
AIAA PAPER-64-36 N64-14658 06-11

RECURSIVE APPROACH TO THEORY OF SLOW, STEADY STATE, VISCOELASTIC FLOW
RJ-227 N64-17471 09-11

TURBULENT SHEAR FLOW OF REAL VISCOELASTIC FLUIDS
NASA-CR-53319 N64-17792 09-11

VISCOELASTICITY
COAXIAL CYLINDRICAL RHEOMETER FOR MEASURING FLOW & VISCOELASTIC PROPERTIES OF POLYMERS & SUSPENSIONS BY OSCILLATORY AND STATIONARY METHODS
N64-11376 02-15

HIGH TEMPERATURE VISCOELASTOMETER
N64-11377 02-15

DYNAMIC STRESS OF VISCOELASTIC POLYMERIC MATERIALS - DEVELOPMENT OF MATERIALS, METHODS AND TECHNIQUES
RTD-TDR-63-3059 N64-12638 04-33

VISCOELASTIC PROPERTIES OF STYRENE-ACENAPHTHYLENE COPOLYMERS IN TRANSITION REGION
ONR-TR-RLT-66 N64-12817 04-23

DATA REDUCTION METHOD FOR CORRECTING FINITE LOADING TIMES IN VISCOELASTIC STRESS & CREEP TESTS
P-63-6 N64-12994 04-33

POLYMER SYSTEM SMALL DEFORMATION VISCOELASTIC PROPERTIES
ARDD-2589-8 N64-13042 04-19

VISCOELASTIC TESTING OF SOLID POLYURETHANE PROPELLANTS AND PROPELLANT BINDERS
AD-424696 N64-13107 04-26

STRESS-STRAIN DISTRIBUTION IN SOLID PROPELLANT BONDED TO RIGID PLATE AND VISCOELASTIC STRESS ANALYSIS WITH LAPLACE TRANSFORMS
P-63-13 N64-13254 04-33

APPROXIMATE METHODS FOR INVERTING LAPLACE TRANSFORMS IN VISCOELASTIC STRESS ANALYSIS
N64-13256 04-33

DYNAMICS OF VISCOELASTIC MEDIA N64-13435 05-23

VISCOELASTIC PROPERTIES OF ALKYL DISULFIDE COPOLYMERS
ONR-TR-RLT-67 N64-14681 06-19

VISCOELASTIC ANALYSIS OF STRUCTURAL INTEGRITY OF AXIALLY ACCELERATED ROCKET WITH ABLATING BOUNDARY EFFECT
AIAA PAPER-64-151 N64-14855 06-13

UNIQUENESS THEOREMS IN DYNAMIC LINEAR THEORY OF VISCOELASTIC SOLIDS
AD-429806 N64-15943 07-20

DYNAMIC RESPONSE OF SOLID, VISCOELASTIC SPHERE TO TRANSLATIONAL AND ROTATIONAL HARMONIC EXCITATION
EM13-6 N64-18113 10-33

VISCOELASTICITY OF SOLID PROPELLANTS AND PROPELLANT BINDERS - DYNAMIC SHEAR, SPECIFIC VOLUME, AND DEFORMATION & STRAIN RATES
AD-434853 N64-18618 11-26

AXISYMMETRIC, PLANE-STRAIN DYNAMIC RESPONSE OF THICK, ORTHOTROPIC, VISCOELASTIC SHELL
PIBAL-682 N64-18769 11-33

INFLUENCE OF VISCOELASTIC MATERIAL PROPERTIES ON STRESS DESIGN PROBLEM - MATERIALS SCIENCE
AD-436014 N64-18883 11-33

EFFECT OF FILLER ON VISCOELASTIC PROPERTIES OF ELASTOMERS AND COMPOSITE SOLID ROCKET PROPELLANTS
RK-TR-64-2 N64-18887 11-26

VIBRATION OF SPHERE FOR DETERMINING DILATATIONAL CONSTANTS OF VISCOELASTIC MATERIALS
CRREL-132 N64-19127 11-23

VISCOELASTIC PROPERTIES OF SOLID PROPELLANTS AND PROPELLANT BINDERS - SHEAR, SPECIFIC VOLUME, AND TENSILITY
REPT.-9 N64-19142 11-26

EVALUATION OF DYNAMIC PROPERTIES OF VISCOELASTIC SOLIDS BY FORCED LONGITUDINAL AND TORSIONAL VIBRATIONAL TECHNIQUES
RES. REPT.-122 N64-20349 13-23

EFFECT OF PLASTICIZATION ON VISCOELASTIC PROPERTIES OF POLYVINYL CHLORIDE
ONR-TR-RLT-76 N64-20467 13-19

TENSILE STRESS RELAXATION TEST FOR MECHANICAL PROPERTIES OF VISCOELASTIC MATERIALS
ABL/X-106 N64-21115 14-34

CORRESPONDENCE PRINCIPLE FOR LINEARIZED THEORY OF WAVE PROPAGATION THROUGH ANISOTROPIC AND INHOMOGENEOUS VISCOELASTIC SOLIDS
TR-25 N64-21183 14-23

ATTENUATION OF TRAVELING WAVES IN SEMI-INFINITE COMPOSITE BAR
AD-431282 N64-22046 15-33

VISCOELASTIC PROPERTIES OF ZINC PHOSPHINATE POLYMER
ONR-TR-RLT-77 N64-22526 15-19

STRESS RELAXATION BEHAVIOR OF NONLINEAR VISCOELASTIC SOLIDS
AD-434682 N64-23141 16-25

NORMAL-INCIDENCE REFLECTIVE POLARISCOPE FOR VISCOELASTICITY MEASUREMENTS
NASA-CR-56516 N64-25688 17-15

VISCOELASTIC PROPERTIES OF MONODISPERSE POLYSTYRENE
ONR-TR-RLT-81 N64-25784 17-19

POLYNOMIAL AND FUNCTIONAL FORMS OF CONSTITUTIVE EQUATIONS OF VISCOELASTIC MATERIALS UNDER LARGE DEFORMATION
AGES-63-10 N64-26647 18-28

DERIVATION OF CONSTITUTIVE EQUATIONS FOR VISCOELASTIC MATERIALS UNDER LARGE DEFORMATION
AGES-63-11 N64-26648 18-33

ONSANGER PRINCIPLE OF IRREVERSIBLE THERMODYNAMICS APPLIED TO VISCOELASTIC BODIES SUBJECTED TO FINITE DEFORMATION
AGES-64-1 N64-26687 18-13

LINEAR STRESS ANALYSIS OF HOMOGENEOUS, ISOTROPIC, THERMORHEOLOGICALLY SIMPLE VISCOELASTIC MATERIALS
TR-24 N64-28564 20-13

PROPAGATION OF ACCELERATION WAVES IN LINEAR THEORY OF VISCOELASTICITY
TR-28 N64-29935 21-33

DYNAMIC FRINGE PREDICTION IN BIREFRINGENT VISCOELASTIC MATERIALS
GALCIT-SM-63-25 N64-30496 22-33

CONVECTION IN VISCOELASTIC PLASTIC MODEL OF EARTH CRUST AND MANTLE
MD-64-14/1/ N64-30983 22-12

RAYLEIGH WAVES IN VISCOELASTIC-PLASTIC MODEL OF EARTH CRUST AND MANTLE
MD-63-4 N64-32199 23-12

VISCOELASTIC BEHAVIOR OF HETEROGENEOUS SUSPENSIONS
TR-4 N64-32270 23-25

MOTION OF SINGLE DEGREE OF FREEDOM VISCOELASTIC SYSTEM SUBSEQUENT TO INITIAL IMPULSE
ML-TDR-64-244 N64-33272 24-18

TWO-DIMENSIONAL STEADY-STATE SOLUTIONS FOR MOVING NORMAL CONTACT LOADS ON SURFACE OF VISCOELASTIC BASE
TR-148 N64-33298 24-33

DETERMINATION OF STRESS FIELD IN VISCOELASTIC MODEL BY FRINGE ORDER AND ISOCLINIC ANGLE OBSERVATION N64-33607 24-33

VISCOMETER
FLOW BEHAVIOR OF PHENOLIC RESINS USING CONE AND PLATE VISCOMETER - BIBLIOGRAPHY
N64-19781 12-11

VISCOPLASTICITY
VISCOPLASTIC SOLUTION OF HYPERVELOCITY IMPACT CRATERING PHENOMENON
N64-13523 05-23

TWO-DIMENSIONAL ANALYSIS OF HYPERVELOCITY IMPACT ON VISCOPLASTIC PLATE
N64-13545 04-23

RAYLEIGH WAVES IN VISCOELASTIC-PLASTIC MODEL OF EARTH CRUST AND MANTLE
MD-63-4 N64-32199 23-12

VISCOSITY
FORTRAN PROGRAM FOR DESOXYRIBONUCLEIC ACID MOLECULAR WEIGHTS FROM VISCOSITY & CENTRIFUGAL SEDIMENTATION
LA-2964 N64-10318 01-07

SOLID AND LIQUID STATE DIFFERENCES - THERMAL ENERGY, BOUNDARY LAYERS, VISCOSITY, SURFACE TENSION, SINGLE-BOND ENERGY
N64-10678 02-23

VISCOUS EFFECT AND HEAT TRANSFER IN SEPARATED FLOW
AFOSR-4712 N64-12180 03-13

VERTICAL MOTION OF STRESS WAVE AT VARIOUS SOIL DEPTHS DUE TO VISCOSITY AND INELASTICITY
N64-12413 04-12

VISCOSITY OF NEON-HELIUM & NEON-ARGON MIXTURES AND THREE PURE COMPONENTS - SQUID PROJECT
BRN-8-P N64-12931 04-19

DECAY OF TRIPLET STATE OVER VISCOSITY-TEMPERATURE RANGE OF SOME AROMATIC COMPOUNDS IN SOLUTION
AFCRL-63-923 N64-13759 05-23

PENETROMETER FOR MEASURING ABSOLUTE VISCOSITY OF GLASS
BM-RI-6358 N64-15159 07-15

VISCOSITY OF HYDROGEN, DEUTERIUM, METHANE, AND CARBON MONOXIDE - SQUID PROJECT
BRN-10-P N64-15762 07-19

RELATION BETWEEN THERMOCONDUCTIVITY AND VISCOSITY FOR NONPOLAR GASES - COLLISION NUMBERS FOR ROTATIONAL RELAXATION
NASA-RP-134 N64-15842 07-23

VISCOSITY MEASUREMENTS OF DRY AND HUMID AIR - SQUID PROJECT
TR-BRN-12-P N64-16096 07-11

HEAT TRANSFER IN TURBULENT FLUID FLOW AT LARGE PRANDTL NUMBERS AND VARIABLE VISCOSITY
FTD-TT-62-1890/1&2&4 N64-16407 08-13

TEMPERATURE EFFECT ON VISCOSITY AND FILM THICKNESS OF EC776SR DIP APPLIED TO ALUMINUM PANELS
A486 N64-17144 09-19

SPECIFIC HEAT, THERMAL CONDUCTIVITY, AND VISCOSITY OF LIQUID CESIUM
NASA-CR-54018 N64-18294 10-18

VISCOSITIES OF METHYL-ETHYL KETONE SOLUTIONS OF HIGH MOLECULAR WEIGHT POLYISOBUTYL METHACRYLATE
PA-TR-3113 N64-18605 11-19

MICRODETERMINATION OF VISCOSITY OF POLYPHENYLS - AROMATIC COMPOUNDS
EUR-594.D N64-19041 11-23

VISCOSITY, CONDUCTIVITY, AND HYDROGEN ION CONCENTRATIONS IN WATER SOLUTIONS OF VINYLPYRIDINE COPOLYMER WITH METHACRYLIC ACID
FTD-TT-62-1572/1&2&4 N64-22149 15-07

INDEX OF VISCOSITY FOR MEASURING POLYMERIZATION IN ETHYLSILICIDE IN INVESTMENT CASTING
N64-23509 16-19

VISCOSITY EFFECTS ON ENERGY EQUATION OF FREE TURBULENT FLOW IN FLUID AMPLIFIER OPERATION
N64-25254 17-11

PRANDTL NUMBER MEASUREMENTS AND THERMOCONDUCTIVITY AND VISCOSITY PREDICTIONS FOR AIR, HELIUM, AND AIR-HELIUM MIXTURES
NASA-CR-55273 N64-25659 17-13

VISCOSITY OF ISOTOPES OF HYDROGEN AND THEIR INTERMOLECULAR FORCE POTENTIALS - SQUID PROJECT
BRN-11-P N64-25797 17-19

MOLECULAR WEIGHTS OF MACROMOLECULES FROM INTRINSIC VISCOSITY MEASUREMENTS
SC-RR-64-978 N64-27972 20-07

EFFECT OF FLUID VISCOSITY ON WAVE RESISTANCE
AD-602217 N64-28642 20-11

LAMINAR FLOW SOLUTION FOR CONSTANT VISCOSITY AND HEAT CONDUCTIVITY - KATABATIC FLOW THEORY
N64-29536 21-21

VISCOSITY OF POLY/ISOBUTYL METHACRYLATE/ IN ACETONE
TR-3163 N64-29917 21-07

VISCOSITY OF CESIUM, CESIUM-HELIUM MIXTURES, AND BINARY GAS MIXTURES ANALYZED AS WORKING FLUIDS FOR MAGNETOPLASMADYNAMIC GENERATOR
N64-30441 22-11

OSCILLATIONS OF SPHERE IN INCOMPRESSIBLE VISCOUS FLUID ROTATING WITH CONSTANT ANGULAR VELOCITY
NASA-RP-313 N64-31443 23-11

VISCOSITY AND VARIATION OF MODERATELY DENSE GASES FROM MODEL OF TRIPLE COLLISION AND CHAPMAN-ENSKOG THEORY - SQUID PROJECT
BRN-13-P N64-32979 24-11

APPROXIMATE FORMULAS FOR VISCOSITY AND THERMAL CONDUCTIVITY OF MONATOMIC GAS MIXTURE
NASA-TN-D-2502 N64-33084 24-11

VISCOUS DAMPING
VISCOUS DAMPING OF LIQUID SLOSHING IN SPHERICAL TANKS
NASA-TN-D-1991 N64-11235 02-11

STRENGTH OF METAL - RATE OF STRAIN DEPENDENCE - EFFECT OF LOADING ON COEFFICIENT VISCOUS DAMPING AND YIELD STRENGTH
ARL-63-1527 N64-12305 03-18

DAMPING CONSTANTS FOR DRY FRICTION-VISCOUS DAMPED SINGLE DEGREE OF FREEDOM SYSTEM
AD-445028 N64-33375 24-23

VISCOUS FLOW
EQUILIBRIUM TURBULENT HYPERSONIC WAKE CHARACTERISTICS OF SLENDER CONE WITH DIFFERENT EDDY VISCOSITY COEFFICIENTS
R63SD71 N64-11292 02-02

VISCOUS EFFECTS ON BALANCED JETS IN GROUND PROXIMITY
TRECOM-TR-63-59 N64-13835 05-02

VISCOUS FLOW STABILITY BETWEEN ROTATING CYLINDERS WITH FINITE GAP
MD-63-2 N64-14003 05-11

VISCOUS FLUID FLOW AROUND DIHEDRAL ANGLES
NWL-1901 N64-15767 07-11

INTEGRAL INVARIANCE OF CLASS OF STEADY STATE VISCOUS INCOMPRESSIBLE FLOWS
MD-63-3 N64-19268 11-11

FLOW BEHAVIOR OF PHENOLIC RESINS USING CONE AND PLATE VISCOMETER - BIBLIOGRAPHY
N64-19781 12-11

MULTICOMPONENT MULTIPHASE VISCOUS FLOW WITH APPLICATIONS TO LAMINAR AND TURBULENT JETS OF HYDROGEN
NASA-CR-53509 N64-19985 12-11

TURBULENCE GENERATION IN PULSATING VISCOUS FLOW
NU-HYDRO-012-TS N64-20304 13-11

STABILITY PROBLEM OF VISCOUS INCOMPRESSIBLE FLOW BETWEEN ROTATING COAXIAL CIRCULAR CYLINDERS WITH ADDED AXIAL FLOW
DVL-290 N64-20426 13-02

VISCOUS MIXING OF TWO-DIMENSIONAL AIR STREAM FROM JET NOZZLES
FROST REPT.-197-4 N64-22963 16-02

STEADY STATE & TRANSIENT OPERATING CHARACTERISTICS OF LONG CYLINDRICAL SHROUD SUPERSONIC EJECTORS
NASA-CR-56653 N64-24114 16-04

VISCOUS INCOMPRESSIBLE FLOW INSIDE CONE
AD-432196 N64-25635 17-11

VISCO-PLASTIC FLOW IN INFINITE PLATE UPON IMPACT WITH CYLINDER
AD-602179 N64-32065 23-33

AXISYMMETRIC, ALIGNED MAGNETOHYDRODYNAMIC VISCOUS FLOWS ABOUT MAGNETIZED SPHERICAL BODIES
CM-1047 N64-32273 23-24

CONVERGENCE OF GALERKIN METHOD FOR TAYLOR-DEAN FLOW STABILITY AND VISCOUS FLUID PROBLEMS
RPI-63 N64-33023 24-11

CONVERGENCE OF GENERALIZED GALERKIN METHOD FOR FLUID STABILITY PROBLEMS N64-33025 24-11

VISCOUS FLUID
STEADY FLOW OF VISCOUS FLUID PAST CIRCULAR CYLINDER AT REYNOLDS NUMBERS 40 AND 44
ARC-R&M-3175 N64-10404 01-11

FLOW OF RESILIENT-VISCOUS LIQUID IN PIPES OF RING, ROUND, AND SLIT CROSS SECTION N64-11981 03-02

FORCES ON CYLINDER IN SHEAR FLOW OF VISCOUS FLUID THROUGH NARROW CHANNEL
ARC-R&M-3343 N64-13386 04-11

STABILITY OF AXIAL FLOW OF VISCOUS FLUID BETWEEN CONCENTRIC ROTATING CYLINDERS
MRC-430 N64-13753 05-11

BEHAVIOR OF SMALL OSCILLATIONS SUPERPOSED ON VISCOUS FLUID FLOW
FTD-TT-62-1597/1&2&3&4 N64-16403 08-11

LUBRICATION WITH TURBULENT FLOW OF VISCOUS FLUID
MTI-63TR40 N64-18045 10-17

EXACT SOLUTION TO NONLINEAR EQUATIONS OF LAMINAR FLOW FOR VISCOUS INCOMPRESSIBLE FLUIDS IN ENTRANCE REGION OF ANNULAR PIPES
MRC-477 N64-18378 10-11

SOLUTIONS OF BOUNDARY LAYER EQUATIONS FOR PURELY VISCOUS NON-NEWTONIAN FLUIDS
NASA-TN-D-2262 N64-18735 11-11

SINKAGE OF FLAT PLATES IN THIN FILMS OF VISCOUS FLUIDS OVER SMOOTH AND ROUGH SURFACES - MODEL OF RUBBER TIRE ROLLING ON WET PAVEMENT
N64-19050 11-23

TURBULENT BOUNDARY LAYER ON AXISYMMETRIC BODY REVOLVING IN AXIAL FLOW OF VISCOUS FLUID
FTD-TT-63-1137/1&2 N64-19762 12-02

LAMINAR FLOW OF VISCOUS FLUID
FTD-TT-63-817/1&2&4 N64-19808 12-11

VISCOELECTRIC MAGNETOHYDRODYNAMIC ANALOGY
N64-19832 12-24

EFFECT OF CORIOLIS FORCES ON ONSET OF THERMAL CONVECTION IN SHALLOW LAYER OF VISCOUS LIQUID
REPT.-562/07//54 N64-22519 15-13

HEAT TRANSFER ON SURFACE OF CYLINDER WITH AXIAL FLOW OF HIGHLY VISCOUS FLUID
FTD-TT-62-1333/1&2 N64-23404 16-11

VIBRATIONS OF VISCOUS LIQUIDS IN CYLINDRICAL CAVITY IN HORIZONTAL MOTION N64-23564 16-11

PULSATING MAGNETOHYDRODYNAMIC FLOW SUPERPOSED ON STEADY LAMINAR FLOW OF INCOMPRESSIBLE VISCOUS FLUID IN ANNULAR CHANNEL
MRC-379 N64-29030 21-24

FORCES ON SPHERE ACCELERATING IN VISCOUS FLUID - DRIFTING SNOW
RR-128 N64-29868 21-11

VISIBILITY
PHOTOMETRIC CONDITIONS IN RESPECT TO VISIBILITY OF NOCTILUCENT CLOUDS N64-10065 01-21

STATISTICAL ANALYSIS OF SURFACE WIND VELOCITY, SKY CONDITION, AND VISIBILITY
ERDA-88 N64-12925 04-12

STATISTICS OF VISIBILITY IN SATELLITE COMMUNICATION SYSTEMS
REPT.-36G-7 N64-14006 05-29

TAXIWAY CENTERLINE LIGHTING FOR IMPROVING AIRPORT RUNWAY VISIBILITY
RD-64-46 N64-21013 14-10

VISIBILITY CONDITIONS IN MALAYA - METEOROLOGICAL OBSERVATIONS
AD-439510 N64-22550 15-21

STATISTICAL METHODS FOR FORECASTING OPERATIONAL AIRPORT CEILING AND VISIBILITY CONDITIONS
TR-1 N64-23198 16-20

ANALYTICAL DETERMINATION OF EARTH VISIBILITY FROM ORBITING SATELLITE - OGO & POGO
NASA-TM-X-55002 N64-23517 16-12

MOONLIGHT AND NIGHT VISIBILITY - APPLICATION TO MILITARY TACTICS
AD-438001 N64-25364 17-21

LOW VISIBILITY SIMULATION FOR PILOT TRAINING
ARL/HE-17 N64-26051 18-04

SATELLITE TO SATELLITE VISIBILITY OF CREWMEN - HUMAN PERFORMANCE N64-30721 22-14

GEOGRAPHICAL ORIENTATION, OPERATIONAL PROBLEMS, HUMAN PERFORMANCE DURING VIBRATION, AND PHYSICAL AND GEOMETRIC PARAMETERS AFFECTING VISIBILITY IN LOW ALTITUDE HIGH SPEED FLIGHT
ACR-95 N64-31508 23-14

EFFECTS OF PHYSICAL AND GEOMETRIC PARAMETERS AND HUMAN VISUAL LIMITATIONS ON VISIBILITY DURING LOW ALTITUDE HIGH SPEED FLIGHT N64-31511 23-14

VISIBLE RADIATION
MEASURING INFRARED AND VISIBLE ELECTROMAGNETIC RADIATION EMANATING FROM MISSILE EXHAUST PLUMES
AFCRL-63-846 N64-13000 04-30

OPTICAL & CORPUSCULAR SOLAR FLARE RADIATION
RTD-TDR-63-3044 N64-13779 05-28

DETECTION OF SATELLITES AND SPACE PROBES BY ULTRAVIOLET, VISIBLE, & INFRARED RADIATION
N64-15475 07-23

ULTRAVIOLET AND VISIBLE RADIATION FROM SHOCK CAP REGION FOR LEXAN AND ALUMINUM SPHERES TRAVELING AT HYPERSONIC SPEEDS IN AIR
CARDE-TR-491/64 N64-19325 12-24

VISIBLE RADIATION AND NONEQUILIBRIUM FLOW FIELD AROUND VEHICLE IN REENTRY TRAJECTORY
NASA-CR-56626 N64-24025 16-02

SPECTROGRAM OF VISIBLE RADIATION EMITTED FROM TRAILBLAZER II REENTRY VEHICLE
NASA-TN-D-2347 N64-24590 17-30

PREDICTED EMISSION OF VISIBLE RADIATION FROM SHOCK HEATED AIR
TN-AMSMI-RNR-63-3 N64-28416 20-23

VISIBLE ELECTROLUMINESCENCE FROM P-N JUNCTIONS IN DIFFUSION BONDED SEMICONDUCTORS
N64-31648 23-25

VISIBLE SPECTRUM
VISIBLE AND INFRARED ABSORPTION SPECTRA OF SINGLE CRYSTAL AND POLYCRYSTALLINE URANIUM DIOXIDE
HW-79033 N64-11209 02-23

PLANETARY AND LUNAR RESEARCH IN THE PHOTOGRAPHIC INFRARED, VISIBLE, AND ULTRAVIOLET SPECTRA
SAR-5 N64-14359 06-05

NEAR-ULTRAVIOLET, VISIBLE AND INFRARED SPECTROSCOPY OF SODIUM AND POTASSIUM THIOCYANATE
N64-14912 06-07

METHOD FOR OBTAINING ULTRAVIOLET AND VISIBLE SPECTRA OF INSOLUBLE MATERIALS BY USING LOW MOLECULAR WEIGHT POLYETHYLENE AS A DISPERSION MEDIUM
BM-RI-6439 N64-18993 11-23

VISIBLE ABSORPTION SPECTRA OF CADMIUM IN CADMIUM HALIDES AND LEAD CHLORIDE AND IN LEAD BROMIDE
NASA-RP-247 N64-26074 18-19

ABSORPTION OF DISTILLED WATER, SEA WATER, AND HEAVY WATER IN VISIBLE SPECTRUM
AFCRL-64-481 N64-30547 22-23

SKY BRIGHTNESS MEASUREMENTS IN VISUAL AND ULTRAVIOLET REGIONS OF SPECTRUM - MULTIPLE LIGHT SCATTERING
NASA-TT-F-8955 N64-30848 22-28

VISIBLE ABSORPTION SPECTRA OF LITHIUM, SODIUM, AND POTASSIUM IN MOLTEN LITHIUM CHLORIDE-POTASSIUM CHLORIDE
NASA-RP-322 N64-31005 22-07

VISION
IONIZING RADIATION EFFECT ON VISUAL PATHWAY & EYE OF CAT
UCRL-11005 N64-11097 02-16

ROTARY AUTOKINESIS AND DISPLACEMENT OF THE VISUAL HORIZONTAL ASSOCIATED WITH HEAD AND BODY POSITION
N64-11396 02-14

FLIGHT EVALUATION OF WIDE-ANGLE, OVERLAPPING MONOCULARS FOR PROVIDING PILOT FIELD OF VISION
NASA-TN-D-2265 N64-17753 09-23

DISARRANGED EYE-HAND COORDINATION
N64-22061 15-14

COLOR DISCRIMINATION WITHOUT CHROMATIC VISION
QTSR-3 N64-22241 15-14

HIGH OXYGEN ENVIRONMENT EFFECTS ON VISUAL MECHANISMS AND OCULAR PHYSIOLOGY
SAM-REVIEW-3-64 N64-26269 18-16

HUMAN ELECTRORETINOGRAPHY AND VISUAL PERFORMANCE
APR-2 N64-32379 23-16

VISUAL ACCOMMODATION
VISUAL ADAPTATION IN EYE OF MAN - ANTIBIOTIC EFFECT ON BLOOD CONTENT AND ORGANS OF IRRADIATED RATS - ELECTRIC RESISTANCE IN SECTION OF PULMONARY TISSUE IN MAN
JPRS-25464 N64-28425 20-16

VISUAL RECOVERY FROM EXPOSURES TO VERY HIGH ILLUMINANCE FLASHES
TDR-2 N64-33459 24-14

VISUAL AID
LUMINESCENT AND REFLECTIVE COATINGS AS VISUAL AIDS FOR NIGHT CARRIER LANDINGS
NRL-5973 N64-14122 05-23

PORTABLE AUDIOVISUAL EQUIPMENT AS AIDS TO TRAINING IN REMOTE AREAS AND FOR INSTRUCTIONAL TECHNIQUES INDEPENDENT OF WRITTEN LANGUAGE
AMRL-TDR-63-91 N64-14366 06-10

VISUAL AIDS FOR MANUFACTURING PERSONNEL IN PRODUCTION OF ATOMIC WEAPONS
SC-4959/M/ N64-14997 06-14

VISUAL AIDS FOR AIRCRAFT PILOTS TO AVOID MID-AIR COLLISIONS
FAA-RD-64-2 N64-20440 13-22

VISUAL AIDS SYSTEM FOR ALL-WEATHER LANDING SYSTEM
N64-20937 14-22

VISUAL CONTROL
PILOT CONTROL OF ORBITAL DOCKING OF ATTITUDE-STABILIZED VEHICLE BY VISUAL-CUE GUIDANCE - FIXED-BASE SIMULATOR
NASA-TN-D-2036 N64-12715 04-14

VISUAL CONTROL OF ACCLIMATIZATION TO COMPLEX VESTIBULAR STIMULATION IN MAN
NASA-CR-56896 N64-27889 20-14

VISUAL DISPLAY
NAVIGATION SYSTEM AND VISUAL DISPLAY IN RH- 2 HELICOPTER
D228-100-008 N64-19136 11-04

POINT LIGHT SOURCE FOR VISUAL DISPLAY SYSTEM OF FLIGHT SIMULATORS
NAVTRADEVCEN-1628-16 N64-19675 12-10

TWO-COLOR DIRECT VIEW DISPLAY SYSTEM WITH SELECTIVE ERASURE
AD-428609 N64-19969 12-09

EFFECT OF REFERENCE DISPLAY ON HUMAN DETECTION PERFORMANCE IN VISUAL VIGILANCE TASK
TR-750-2 N64-20409 13-14

SYSTEM FOR VISUAL DISPLAY AND PHOTOGRAPHIC RECORDING OF MULTIPLEXED SIGNALS FROM MULTICHANNEL ELECTROENCEPHALOGRAPH
FTD-TT-63-1190/1&2&4 N64-26212 18-16

EFFECTS OF VISUAL DISPLAY MODE AND MONITORING ON PERFORMANCE IN COMPLEX VIGILANCE TASK
SAM-TDR-64-34 N64-29794 21-14

CERTITUDE JUDGEMENT AND ACCURACY OF INFORMATION ASSIMILATION FROM VISUAL DISPLAYS
USAPRO-TRN-145 N64-29947 21-14

INFORMATION EXTRACTION AND VISUAL DISPLAY DURING COMPUTER OPERATION
FTD-TT-64-236/1&2&4 N64-30162 21-09

VISUAL FIELD
CRITICAL VISUAL FIELD OF EXPLOSIVE-ACTUATED LENS FILTER /ELF/ HELMET AND VISOR SYSTEM FOR FLASH BLINDNESS PREVENTION
MR-64-1 N64-32299 23-16

VISUAL OBSERVATION
PROBLEMS AND METHODS OF STUDYING NOCTILUCENT CLOUDS BY VISUAL AND PHOTOMETRIC MEANS
N64-10063 01-21

EXCLUSION OF ANGULAR ACCELERATIONS AS PRINCIPAL CAUSE OF VISUAL ILLUSIONS DURING PARABOLIC FLIGHT MANEUVERS
SAM-TDR-63-78 N64-12677 04-16

DIMENSIONAL, VISUAL, AND DYE-PENETRANT INSPECTIONS OF TUNGSTEN SHEET
ER-1399-1 N64-12929 04-18

AIR-TO-GROUND APPLICATIONS OF VISUAL DETECTION LOBE THEORY N64-15462 07-23

PHOTOGRAPHIC AND VISUAL OBSERVATIONS MADE AT NEW MEXICO STATE UNIVERSITY OBSERVATORY
N64-16327 08-16

PROCESSING OF DATA OBTAINED FROM VISUAL AND PHOTOGRAPHIC OBSERVATIONS OF SATELLITES
N64-16460 08-32

VISUAL OBSERVATION OF SATELLITES
N64-17271 09-08

VISUAL OBSERVATION OF SATELLITES, NOVEMBER 1963 FROM U.K., EUROPE, AND MALTA N64-17272 09-08

SPECTROPHOTOMETRIC INSTRUMENTATION & OBSERVATIONS OF SOLAR FLARES, AND VISUAL OBSERVATIONS

AD-433788 N64-18462 10-28

VISUAL OBSERVATIONS OF AURORAE AND SUMMARY OF RECORDED EMISSIONS N64-21896 15-12

SCINTILLATION AND SHIMMER EFFECTS ON VISUAL OBSERVATION OVER SNOW, ICE, AND FROZEN GROUND
RR-111 N64-22520 15-15

PHOTOGRAPHY & VISUAL OBSERVATION USING HIGH FREQUENCY CURRENTS
FTD-TT-62-1549/1&2&4 N64-23286 16-09

POSITIVE VISUAL AFTER-IMAGE OF DISPLAY MATERIAL FOR RECALL INFORMATION
NAVTRADEVCEN-1303-3 N64-26953 18-14

PHOTOGRAPHIC AND VISUAL OBSERVATIONS OF MOON AND PLANETS
NASA-CR-58617 N64-28997 20-29

INFRARED PHOTOGRAPHY AND SPECTROSCOPIC AND VISUAL OBSERVATIONS OF PLANETS AND MOON
SAR-6 N64-31592 23-29

VISUAL OBSERVATIONS OF AURORAE FROM MIDDLE LATITUDES N64-32716 24-12

VISUAL PERCEPTION
SA ELEVATOR ILLUSION
LABORATORY STUDIES OF ABILITY OF OBSERVERS TO PERFORM THREE VISUAL TASKS REQUIRED OF PILOTS IN APPROACH AND LANDING
HSR-RR-63/7-MK-X N64-10444 01-14

ABILITY OF HUMAN SUBJECTS TO PERFORM VISUAL TASKS REQUIRED IN APPROACH AND LANDING N64-10445 01-14

ABILITY OF HUMAN SUBJECTS TO PERCEIVE SIX BASIC GEOMETRIC DESIGNS AT VARIOUS ANGLES
HSR-RR-61/13-MK-X N64-10446 01-14

APPLICATION OF COMPACTNESS HYPOTHESIS TO VISUAL IMAGE RECOGNITION BY GENERAL-PURPOSE DIGITAL COMPUTER
JPRS-18126 N64-10742 02-16

PROBLEMS ON HUMAN ENGINEERING PSYCHOLOGY AND VISUAL AND SPATIAL PERCEPTION
JPRS-18719 N64-10786 02-16

MATHEMATICAL ANALYSIS OF RELATION OF VISUAL PERCEPTION TO PERCEPTION OF SPATIAL OBJECTS N64-10788 02-11

GENERAL PURPOSE DIGITAL COMPUTERS IN CYBERNETICS - SIMULATION OF BIOLOGICAL SYSTEMS, SELF-ORGANIZING AND TEACHING, AND VISUAL IMAGE PERCEPTION N64-11533 03-16

VISUAL PERCEPTION STUDIES & PSYCHOLOGY
JPRS-19615 N64-12504 04-16

VISUAL SIGNALS FOR QUANTITATIVE EXAMINATION OF ATTENTION, DISCRIMINATION, PERCEPTION - DATA PROCESSING N64-12505 04-16

DECREASE IN VISUAL FACULTY UNDER FATIGUE CONDITION N64-12506 04-16

AUTOMATIC TEACHING MACHINE FOR VISUAL PERCEPTION - CYBERNETICS N64-12524 04-16

VISUAL PERCEPTION OF ALPHANUMERIC SYMBOLS
LB-31403 N64-13108 04-14

THRESHOLD FOR VISUAL PERCEPTION OF RANDOM FORMS UNDER DEGRADATION AND STEREOSCOPIC CONDITIONS
ESD-TDR-63-136 N64-13656 05-14

COLOR FILTERING AND DISPLAY TECHNIQUE EFFECTS ON VISUAL PERCEPTION - SPECTRA ZONAL PHOTOGRAPHY AND TARGET DETECTION
FR-63-11-287 N64-13846 04-14

PROBLEMS OF VISUAL PERCEPTION AND REACTION TIME FOR PREVENTION OF SUPERSONIC AIRCRAFT COLLISIONS N64-15047 07-16

DEPTH PERCEPTION FROM BINOCULAR DISPARITY
CARI-63-10 N64-15165 07-14

WHOLE-BODY VIBRATION EFFECT ON VISUAL PERFORMANCE
D3-3512-4 N64-15855 07-14

FLIGHT OPERATIONAL TESTS OF PILOT VISUAL APPROACH AND LANDING AIDS
AGARD-431 N64-16291 08-10

VISUAL PERCEPTION OF SPATIAL EXTENT - RELATION BETWEEN PERCEIVED & PHYSICAL DISTANCE
CARI-63-20 N64-17235 09-14

COLOR VISION THEORY N64-18829 11-14

THRESHOLD OF VISUAL DETECTION OF ACCELERATED MOTION
AFOSR-64-0189 N64-21381 14-14

STIMULATION DUE TO SELF-INDUCED MOVEMENT IN PRODUCTION OF ADAPTATION TO PRISMATIC DISPLACEMENT N64-21727 15-14

VISUAL PERCEPTION STUDY OF POSTURAL VERTICAL IN NORMALS AND SUBJECTS WITH VESTIBULAR DEFECTS N64-22438 15-14

RELATIONSHIP BETWEEN CORTICAL ENDING OF VISUAL ANALYZER IN BINOCULAR VISION AND VISION DISTURBANCE - ELECTROENCEPHALOGRAPHY N64-25136 17-14

ROLE OF EYE MOVEMENTS IN SPATIAL VISION N64-25138 17-14

CONDITIONED REFLEX BASIS OF VISUAL SPATIAL PERCEPTION N64-25139 17-14

PHYSIOLOGICAL MECHANISMS INVOLVED IN VISUAL PERCEPTION OF DISTANCE TO MOVING OBJECTS N64-25140 17-14

INDIVIDUAL PECULIARITIES IN DEPTH PERCEPTION WITH OBJECT MOVING AWAY AND TOWARD SUBJECT N64-25141 17-14

PERCEPTION AND REPRESENTATION OF SHORTEST DISTANCE ON PLANE AND ON SPHERE N64-25153 17-14

HUMAN ELECTRORETINOGRAPHY AS GAUGE OF VISUAL PERCEPTION
AD-602526 N64-25512 17-14

HUMAN BEHAVIOR - VISUAL PERCEPTION OF MOTION
FPRC/MEMO-191 N64-25842 18-14

VISUAL ILLUSIONS DUE TO ACCELERATION AND EYE MOTION
FPRC-1207 N64-25847 18-14

FLASHING BEACON FOR FAITH 7 /MA-9/ VISUAL PERCEPTION TEST
NASA-TN-D-2377 N64-26415 18-06

NUCLEIC ACIDS AND VISUAL PERCEPTION STUDIES
JPRS-25824 N64-27062 19-14

EMPTY VISUAL FIELD STUDY - EFFECTS OF CORRECTIVE FILTERS AND STRUCTURES
NAVTRADEVCEN-IH-14 N64-28902 20-14

MATHEMATICAL MODEL FOR VISUAL INTEGRATIVE PROCESS - PATTERN RECOGNITION
DI-82-0351 N64-29610 21-07

VISUAL REQUIREMENTS FOR FLIGHT QUALIFICATION - PERSONNEL SELECTION
AD-442707 N64-29650 21-14

EFFECT OF SIMULTANEOUS AUDITORY STIMULATION ON PERCEPTION OF VISUAL SIGNALS
FPRC-1209/B/ N64-29767 21-14

CORRELATION BETWEEN ATMOSPHERIC BACKSCATTERING AND METEOROLOGICAL VISUAL RANGE
USAEL-TR-2481 N64-29795 21-21

EARTH-TO-SPACE VISUAL CONTRAST TRANSMITTANCE

MEASUREMENTS FROM GROUND STATION
SIO-REF.-63-2 N64-30809 22-12

MORPHOLOGICAL CONNECTIONS AND RESPONSES OF VISUAL ANALYZER IN CEREBRAL CORTEX OF DOG
N64-31462 23-16

PATHS FOR PRIMARY SPECIFIC INFORMATION CONDUCTION IN VISUAL ANALYZER SYSTEM OF DOG
N64-31463 23-16

RESPONSE AND FEEDBACK TECHNIQUES FOR AUTOMATED TRAINING OF VISUAL IDENTIFICATION SKILLS
NAVTRADEVCEN-789-3 N64-32037 23-14

RELATION BETWEEN OPTIC AND SKIN PERCEPTION OF LIGHT IN MAN N64-32779 24-16

DRUG DEVELOPMENT AND PSYCHOPHYSIOLOGIC ASPECTS OF VISUAL PERCEPTION
AD-447092 N64-33690 24-14

VISUAL SIGNAL
VISUAL AND AUDIBLE SIGNAL MECHANISMS FOR ALTIMETER DISPLAY SYSTEM
FPRC-1215 N64-20627 13-15

PSYCHOLOGICAL PROBLEMS - SENSORIMOTOR PERFORMANCE IN AUTOMATIC CONTROL, VISUAL SIGNALING PARAMETRIC INFLUENCE ON MOTOR REACTION, ALGORITHMIC APPROACH TO LEARNING, AND EYE MOVEMENT CONTROL
JPRS-26014 N64-30321 22-14

LABORATORY APPARATUS FOR VISUAL SIGNALLING INVESTIGATION OF MOTOR REACTION EFFECTIVENESS
N64-30323 22-14

VISUAL STIMULUS
TWO FUSION THRESHOLDS OF LIGHT STIMULI IN VISUAL ANALYZER OF MAN
JPRS-23946 N64-17806 09-16

VISUAL SYSTEM
VISUAL SYSTEM STRUCTURE AND PHOTORECEPTORS FOR RETINAL IMAGE - CYBERNETICS N64-12522 04-16

VISUAL INFORMATION PROCESSING IN RETINA BY OPTIMAL ENCODING - CYBERNETICS N64-12523 04-16

FACTORS AFFECTING VISUAL & AUDITORY SYSTEMS IN MAN
JPRS-22735 N64-13582 04-16

EFFECT OF PHYSICAL STRAIN, HIGH TEMPERATURE, & HIGH OXYGEN CONTENT IN INSPIRED AIR ON EXCITABILITY OF VISUAL MECHANISM IN MAN
N64-13583 05-16

CLIMATIC EFFECT ON EXCITABILITY OF VISUAL & AUDITORY ORGANS IN MAN N64-13584 05-16

EFFECTS OF UNUSUAL GRAVITATIONAL AND INERTIAL FORCE ENVIRONMENT ON VESTIBULAR AND VISUAL SYSTEMS
NASA-CR-56080 N64-20729 13-16

STRUCTURAL CHANGES IN VISUAL ANALYZER OF MONKEYS AFTER EXTIRPATION OF CERVICAL LOBES
JPRS-24800 N64-21043 14-16

STATISTICAL CODING AND VISUAL FIDELITY APPROACHES TO TELEVISION BANDWIDTH REDUCTION PROBLEM
AFCRL-64-323 N64-24950 17-08

VISUAL TASK
HUMAN BEHAVIOR - DISCRIMINATION OF PRIMARY AND SECONDARY VISUAL VIGILANCE TASKS
AD-437334 N64-20318 13-14

VISUAL TRACKING
ERROR ANALYSIS OF HUMAN PERFORMANCE ON TRACKING TASKS UNDER STRESS
AD-428112 N64-14168 05-14

HUMAN TRACKING PERFORMANCE & TOLERANCE TO ACCELERATION
NASA-CR-21 N64-16534 08-14

SATELLITE OBSERVATION AND VISUAL TRACKING FROM C-130 AIRCRAFT
NASA-CR-55905 N64-16724 08-08

EFFECTS OF CURVILINEAR AND DISCRETE TRANSFORMATIONS OF ERROR INFORMATION ON HUMAN TRACKING PERFORMANCE
AMRL-TDR-63-137 N64-17510 09-14

HARMONIC ANALYSIS OF HUMAN PERFORMANCE OF TRACKING IN T-33 AIRCRAFT, IN CENTRIFUGE SIMULATION, AND IN STATIONARY SIMULATION
NADC-AC-6406 N64-28698 20-14

ENGINEERING ANALOGY FOR PREDICTING HUMAN TRACKING PERFORMANCE
AD-602861 N64-29762 21-14

MATHEMATICAL MODEL OF PERFORMANCE OF HUMAN OPERATOR IN VISUAL-MANUAL TRACKING SITUATION
TR-EE64-15 N64-30018 21-14

VITAMIN
EDIBLE PROTEIN-VITAMIN COMPLEX FOR PROTECTION FROM RADIATION SICKNESS, AND GAMMA RADIATION EFFECT ON VITAMIN CONTENT OF RAT LIVER AND BRAIN
FTD-TT-63-1064/1&2&4 N64-22363 15-16

MICROBIOLOGICAL DEWAXING PROCESS YIELDING PROTEIN-VITAMIN CONCENTRATES
NASA-TT-F-233 N64-26836 18-16

VITAMIN AND HORMONE EFFECTS ON HEMORRHAGIC DISEASE IN RATS CAUSED BY IRRADIATED FOOD
PR-14 N64-33993 24-16

VLASOV EQUATION
STRESS-STRAIN DISTRIBUTION ON THIN WALLED CONICAL WING SHELLS USING VLASOV EQUATION
N64-23072 16-33

CONSTANTS OF LINEARIZED MOTION OF VLASOV PLASMAS
TH-59 N64-26586 18-24

CONSTANTS OF LINEARIZED MOTION OF VLASOV PLASMAS
MATT-253 N64-27143 19-24

IDENTITY OF LANDAU AND VAN KAMPEN SOLUTIONS OF LINEARIZED VLASOV EQUATION
NASA-CR-58667 N64-29003 20-24

VOCAL CORD
RESPIRATORY PHYSIOLOGY OF VIBRATIONS OF VOCAL CORDS FROM TRACHEAL OUTER WALL VIBRATIONS
E-T-J-63-4 N64-12277 03-23

SPECTRAL OBSERVATION OF VOCAL SOUND WAVES AND WAVE FILTERING PROCESSES OF TRACHEAL OUTER WALL
E-T-J-63-6 N64-14675 06-16

STROBOSCOPE WITH SYNCHRONIZING FEEDBACK FOR STUDY OF VOCAL CORDS N64-30394 22-16

GLOTTIS AND VOCAL CORD MEASUREMENTS BY DATA REDUCTION FROM MOTION PICTURE - DATA PROCESSOR
AFCRL-64-661 N64-31802 23-15

VOCODER
POLYMODAL VOCODER MANUAL - DESCRIPTION, OPERATING & TUNING PROCEDURE, SCHEMATICS, AND ASSEMBLY DRAWINGS
AFCRL-63-301, PT. 2 N64-10549 01-08

CIRCUIT BOARD LAYOUTS AND ELECTRONIC AND LOGIC DRAWINGS FOR CIRCUITS IN VOCODER
MB18-A63 N64-26715 18-09

VOCODER EVALUATION RESEARCH - DIGITAL SPEECH TRANSMISSION AND SPEECH BANDWIDTH COMPRESSION
CR-64-558-1 N64-26896 18-08

VOCAL DIGITIZING WITH VOCODER TO PROVIDE ACCEPTABLE VOICE TRANSMISSION WITH MINIMUM BANDWIDTH EXPENDITURE
ESD-TDR-64-110 N64-28666 20-08

WIRING OF CONNECTORS AND JACKS FOR VOCODER
AFCRL-63-301, PT. 2 N64-32047 23-15

CHANNEL VOCODER SIGNAL POWER SPECTRUM OF SPEECH ENERGY AVERAGE
ESD-TDR-64-58 N64-33319 24-08

VOICE COMMUNICATION
COMPUTATION AND MEASUREMENT OF SPEECH INTELLIGIBILITY - OPTIMAL ELECTROACOUSTIC VOICE CHARACTERISTICS
JPRS-21885 N64-10381 01-01

VOICE TELEGRAPHY SYSTEMS - CIRCUIT FEATURES, EQUIPMENT LAYOUT, AND SYSTEM DESIGN
OTS-63-31001 N64-10510 01-08

SPEECH SIGNAL TRANSFORMATION FOR USE IN COMMUNICATIONS AND CYBERNETICS TECHNOLOGY
N64-15169 07-16

VOCAL SOUND PITCH VARIATIONS OBSERVED FROM VIBRATIONS IN TRACHEAL OUTER WALL
E-T-J-63-5 N64-15374 07-16

HUMAN ENGINEERING IN POWER GENERATOR AND VOICE COMMUNICATION LINK SUBSYSTEMS OF MOBILE AIR TRAFFIC CONTROL & COMMUNICATION SYSTEM, AN/TSQ-47
ESD-TDR-63-656 N64-15752 07-14

MINIMUM SIGNAL-TO-NOISE DENSITY RATIOS FOR TRANSMISSION OF TELETYPE AND SPEECH
SSD-TDR-63-215 N64-15825 07-08

VOICE COMMUNICATIONS SYSTEM USING LIGHT BEAMS
NASA-SP-5005 N64-18503 10-08

MACHINE DISCRIMINATION OF SPEECH AND CARDIAC SOUNDS TO MEASURE PILOT STRESS BY CHANGES IN VOICE AND HEART FUNCTION SOUND
NASA-CR-53501 N64-20597 13-14

PERFORMANCE OF SINGLE & MULTIPLE VOICE RADIO TRANSCRIBERS WORKING UNDER THREE SPEECH-TO-NOISE RATIOS
USAPRO-TRN-135 N64-21741 15-14

INDIVIDUAL DIFFERENCE IN TRANSCRIBING VOICE RADIO MESSAGES EMBEDDED IN ATMOSPHERIC NOISE
TRN-137 N64-21856 15-08

QUARTZ CRYSTAL UNITS FOR USE IN SINGLE-SIDEBAND VOICE-COMMUNICATION EQUIPMENT
REPT.-1 N64-21997 15-25

FABRICATION AND BONDING OF QUARTZ CRYSTALS FOR SINGLE SIDEBAND VOICE COMMUNICATIONS EQUIPMENT
REPT.-2 N64-25618 17-25

SPEECH DISCRIMINATION, VOICE COMMUNICATION, AND STUDIES OF SPEECH TRANSMISSION EFFICIENCY
STL-QPSR-3/1963/ N64-26675 18-14

REENTRY VOICE COMMUNICATION SYSTEM FOR USE IN CONJUNCTION WITH RADAR TRACKING EQUIPMENT
NASA-CR-74 N64-26705 18-08

VOCAL DIGITIZING WITH VOCODER TO PROVIDE ACCEPTABLE VOICE TRANSMISSION WITH MINIMUM BANDWIDTH EXPENDITURE
ESD-TDR-64-110 N64-28666 20-08

VOICE TRANSMISSION INDICATING CIRCUIT
AEL-TR-2469 N64-29934 21-08

VOICE DATA PROCESSING SYSTEM
CAPABILITY AND FLEXIBILITY OF VOICE DATA PROCESSING SYSTEM
AFCRL-63-544 N64-16439 08-20

VOICE IDENTIFICATION TECHNIQUES - DATA PROCESSING SYSTEM
RADC-TDR-64-312 N64-32117 23-08

VOID FRACTION
SUMMARY AND BIBLIOGRAPHY ON VARIOUS METHODS OF VOID FRACTION AND FILM THICKNESS MEASUREMENT
DSR 8734-2 N64-26011 18-23

VOLATILITY
URANIUM AND PLUTONIUM REMOVAL AS HEXAFLUORIDES BY FLUID-BED VOLATILITY FLUORINATION PROCESS
ANL-6742 N64-10217 01-19

WEIGHT LOSS OF VOLATILE SOLIDS IN SPACE ENVIRONMENT N64-19361 12-19

PYROLYSIS OF FLUOROPOLYMERS TO OBSERVE VOLATILITY
N64-27830 19-01

ELECTRICALLY ATOMIZING VOLATILE LIQUIDS
GSP/PHYS-64-1 N64-33819 24-11

VOLCANIC THEORY
VOLCANIC THEORY OF ORIGIN OF SINUOUS LUNAR RILLS
NASA-RP-284 N64-27358 19-29

VOLCANICS
COMPARISON OF ABSORPTION SPECTRA OF VOLCANIC FLAME AND SMOKE WITH SPECTRA OF MARS & VENUS ATMOSPHERES
FTD-TT-63-305/1&4 N64-16362 08-05

VOLTAGE
STATIC & DYNAMIC ANODE-GRID CHARACTERISTICS OF VACUUM TUBE AT LARGE VOLTAGE AMPLITUDES
N64-12740 04-09

SPLITTING METHODS FOR MULTIPORT VOLTAGE TRANSFER FUNCTIONS
AFCRL-63-592 N64-15806 07-09

HIGH POWER, HIGH VOLTAGE, AUDIOFREQUENCY TRANSFORMER DESIGNING
QR-6 N64-18885 11-09

CURRENT VOLTAGE RELATIONSHIP IN LOW PRESSURE CESIUM DIODE
NASA-RP-185 N64-22065 15-24

COAXIAL DOUBLE-SLOTTED MEASURING LINE FOR VOLTAGE STANDING WAVE RATIO MEASUREMENT - COMMUNICATION SYSTEM
FTD-TT-64-6/1 N64-22666 15-08

SELF BALANCING PULSE WIDTH VOLTAGE CONVERTER
N64-24510 17-09

LIGHTNING-INDUCED VOLTAGE & CURRENT IN MISSILE SITE CABLES
WL-TDR-64-21 N64-26271 18-15

MANUFACTURING AND CURRENT-VOLTAGE MEASUREMENTS OF THIN-FILM ELECTROLUMINESCENT CELLS
SMIR-63-3 N64-27235 19-25

HIGH CURRENT AND HIGH VOLTAGE SILICON CONTROLLED RECTIFIERS /SCR/
QR-6 N64-28014 20-01

POWER SILICON GATE CONTROLLED SWITCH FOR HIGH VOLTAGE AND HIGH CURRENT SWITCHING
NASA-CR-94 N64-28314 20-01

DISCRETE INDICATOR OF LIMITING VALUE OF PRODUCT OF TWO CONTINUOUS VOLTAGES N64-28347 20-09

CALIBRATION AND CONTROL OF AMPLITUDE VOLTAGE ANALYZERS N64-29130 21-15

PHOTOELECTROMETER FOR MEASUREMENT OF SMALL VOLTAGES N64-29131 21-15

MULTICHANNEL SEMICONDUCTOR VOLTAGE-TO-CODE CONVERTER WITH DIGIT-BY-DIGIT CODING
N64-29139 21-15

HIGH VOLTAGE HIGH POWER RESEARCH FACILITY FOR ELECTRONIC COMPONENT EXPERIMENTATION AND TESTING
EB-5296-0359-3 N64-30059 21-10

INDUCED VOLTAGE TECHNIQUE FOR EXPLODING PLASTIC PROJECTILE IN BALLISTIC SHOCK TUNNEL
NOLTR-62-173 N64-31075 22-01

APPARATUS FOR ELECTRONIC DIFFERENTIATION OF CURRENT-VOLTAGE CHARACTERISTICS
NASA-TN-D-2161 N64-31730 23-15

SEALED-OFF TUBES OF DIFFERENT ION SOURCES AND PLASMA & HIGH VOLTAGE ACCELERATING TUBES AS NEUTRON GENERATORS N64-31782 23-23

DISTORTION ERRORS IN VOLTAGE CURVE OF STATIC TRANSFORMER FOR WATTMETER N64-31852 23-09

VOLT-AMPERE CHARACTERISTICS OF VOLTMETER AS ERRO

FACTOR IN VOLTAGE MEASUREMENTS N64-31853 23-15

THERMOSTATIC CONDITIONING OF RECTIFIERS FOR MEASUREMENT OF VOLTAGE N64-31871 23-15

SYNTHESIS OF BROADBAND VOLTAGE TRANSFORMER N64-32909 24-09

MEASUREMENTS OF POLARIZATION VOLTAGE LOSSES AND DESIGN OF CEROLYTE FUEL CELL BATTERY
QTPR-2 N64-33526 24-06

LOW INPUT VOLTAGE CONVERTER
REPT.-1 N64-33691 24-09

VOLTAGE AMPLIFIER
EFFECT OF X-RAY FLASHES ON ELECTRICAL CONDUCTANCE OF SILICON - CONSTRUCTION AND TESTING OF AMPLIFIER AND ASSOCIATED SHIELDED CABLES.
QPR-2 N64-14960 06-09

PHASE VARIATION OF VOLTAGE AT OUTPUT OF TUNED AMPLIFIER AFTER SIGNAL SWITCHING AT INPUT N64-29472 21-09

DETECTION AND MEASUREMENT OF SMALL MAGNETIC FIELDS - HALL GENERATOR AND VOLTAGE AMPLIFIER N64-31499 23-15

VOLTAGE BREAKDOWN
LITERATURE SURVEY & BIBLIOGRAPHY OF HIGH VOLTAGE BREAKDOWN IN VACUUM AND IN OIL - APPLICATION TO HIGH POWER VACUUM TUBES
BMI-197-12-1 N64-13602 05-19

SURFACE AND ATOMIC PHYSICS, COMPUTER DESIGNS, PLASMA PHYSICS, SYSTEM DESIGNS, MAGNETIC SUPERCONDUCTORS, VOLTAGE BREAKDOWN, AND THIN FILMS RESEARCH
AD-438840 N64-25885 18-01

FIELD EMISSION IN VACUUM VOLTAGE BREAKDOWN
TR-353 N64-30677 22-09

MIGRATION, DESORPTION, AND VOLTAGE BREAKDOWN PROPERTIES OF CESIUM FILMS ON REFRACTORY ELECTRODES N64-30802 22-25

VOLTAGE GENERATOR
CAPACITANCE HIGH-VOLTAGE DIRECT CURRENT GENERATOR WITHOUT A COMMUTATOR
FTD-TT-61-539/1&2 N64-12368 03-09

INVESTIGATION OF RECOVERY PROCESSES IN GENERATOR CIRCUIT OF LINEARLY-VARYING VOLTAGE WITH POSITIVE FEEDBACK N64-32923 24-09

VOLTAGE CALCULATION OF SELF-OSCILLATOR WITH SELF-BIAS DUE TO GRID CURRENT - GENERATORS AND TRANSDUCER LOADS N64-32924 24-09

VOLTAGE REGULATOR
RECTIFIERS AND SMOOTHING FILTERS, REGULATORS & VOLTAGE STABILIZERS, AND ELECTRIC CIRCUITS
FTD-TT-63-245 N64-12633 04-06

DISCHARGE TESTS, STORAGE CAPACITY RETENTION, AND VOLTAGE REGULATION OF STORAGE CELLS
NASA-CR-55785 N64-16323 08-06

POWER SUPPLY MODULES-VOLTAGE REGULATORS AND DC CONVERTERS - DESIGN AND FABRICATION
NADC-EL-6322 N64-18587 11-06

VOLTAGE REGULATOR FOR DIFFERENTIAL ELECTROLYTIC ETCHING OF METALS - METALLOGRAPHY
FTD-TT-64-19/1&2 N64-22176 15-17

LOW INPUT VOLTAGE CONVERSION - PULSE WIDTH MODULATION
QPR-5 N64-22906 16-06

IMPROVEMENT OF STABILITY OF ALTERNATING CURRENT THROTTLE DRIVES WITH CURRENT & VOLTAGE REGULATORS N64-23085 16-04

AUTOMATIC VOLTAGE REGULATOR FOR PROTECTION OF UNDERGROUND INSTALLATIONS FROM CORROSION N64-23090 16-09

MATHEMATICAL ANALYSIS OF IMPULSE VOLTAGE REGULATION USING DISTORTION RESISTANCE N64-23579 16-09

VOLTAGE AND CURRENT MONITOR FOR SCIENTIFIC SATELLITE
NASA-TM-X-51659 N64-23949 16-09

SIMPLIFICATION OF LOW INPUT VOLTAGE CONVERTER REGULATOR CIRCUIT, IMPROVING CIRCUIT PERFORMANCE, AND PROVIDING OVERLOAD PROTECTION
NASA-CR-56450 N64-27875 20-06

SOLID STATE LOW-VOLTAGE REGULATOR WITH TEMPERATURE STABILITY USING THERMISTOR COMPENSATION, FORWARD-BIASED DIODES, AND MATCHED SILICON TRANSISTORS
HDL-TR-1222 N64-30619 22-15

VOLTERRA EQUATION
VOLTERRA DYNAMIC EQUATION APPLICATION TO NON-HOLONOMIC SYSTEMS N64-23559 16-23

VOLTMETER
DETERMINING CAPABILITY OF MANUFACTURING TAUT-BAND SUSPENSION ALTERNATING CURRENT VOLTAGE AND AMPERE METERS
QPR-4 N64-27960 20-17

VOLT-AMPERE CHARACTERISTICS OF VOLTMETER AS ERROR FACTOR IN VOLTAGE MEASUREMENTS N64-31853 23-15

VOLUME
CALCULATION OF VOLUME AND SURFACE AREA FOR VARIOUS PARTICLES
IDO-14617 N64-11277 02-15

VOLUME EFFECTS ON RADAR REFLECTION PROPERTIES OF STYROFOAM N64-24321 17-08

LINE & SURFACE INTEGRALS, VOLUMES, CENTROIDS OF VOLUME, AND MOMENTS OF INERTIA FOR THIN-WALLED SHELLS OF REVOLUTION
NASA-CR-89 N64-30084 21-20

VON KARMAN EQUATION
TURBULENT BOUNDARY LAYER IN GAS FLOW USING VON KARMAN EQUATION
FTD-TT-63-284/1&2&4 N64-19212 11-11

VON NEUMANN THEOREM
ZERO SUM GAME BETWEEN FINITE AUTOMATON AND PARTNER USING MIXED STRATEGY - APPLICATION OF VON NEUMANN THEOREM
JPRS-19243 N64-10584 01-20

VON NEUMANN ECONOMICAL BALANCED GROWTH THEOREM
AD-424941 N64-12820 04-01

OSCILLATION FREQUENCY, STABILITY, AND STRUCTURE OF DETONATION WAVES USING VON NEUMANN THEOREM N64-19709 12-26

WEAK MACH REFLECTION - VON NEUMANN SHOCK THEORY
MRC-460 N64-20339 13-20

VON ZEIPEL METHOD
VON ZEIPEL METHOD AND CANONICAL VARIABLES USED IN SOLUTION OF DIFFERENTIAL EQUATIONS RELATED TO PERTURBATION THEORY
RM-4074-PR N64-22617 15-23

CANONICAL PROBLEMS AND VON ZEIPEL METHOD - THEORY AND APPLICATION
NASA-TM-X-55058 N64-28079 20-20

APPLICATION OF VON ZEIPEL METHOD TO SATELLITE ORBITING UNDER GRAVITATIONAL FIELD INFLUENCE AND PERTURBATIONS DUE TO EARTH OBLATENESS
NASA-TM-X-55095 N64-33625 24-23

VORTEX
VORTEX-STABILIZED HIGH CURRENT PLASMA ARC N64-10143 01-24

WIND FLOW IN UPPER TROPOSPHERE UNDER INFLUENCE OF CONSERVATION OF VORTICITY AND THERMAL WIND APPROXIMATION N64-11723 03-21

MODEL OF EQUATORIAL FLOW - MOTION OF BANDS OF

FLUID WITH CONSTANT VORTICITY - SOLAR ACTIVITY EFFECT
N64-11726 03-21

SYNOPTIC INTERPRETATIONS OF CLOUD VORTEX PATTERNS OBSERVED BY METEOROLOGICAL SATELLITES
ARA-F-8243-2 N64-11744 03-21

LEADING EDGE VORTEX BREAKDOWN
COA-AERO-158 N64-14051 05-11

VORTEX GAS ACCELERATOR
UCRL-7377 N64-18509 10-27

INTENSIFICATION OF ANNULAR VORTEX FOR BROADENING REGION OF STABLE WORK IN AXIAL COMPRESSORS
FTD-MT-63-33/162 N64-18749 11-06

VORTEX MAGNETOHYDRODYNAMIC POWER GENERATOR
NASA-CR-56081 N64-20646 13-24

CURVATURE AND TORSION OF ISOLATED VORTEX FILAMENT
ATN-64/9231/-4 N64-20824 14-24

EQUATIONS OF SOUND INTENSITY RELATED TO VORTEX SHEDDING
REPT.-1115 N64-21340 14-23

SIDE FORCES ON WING-BODY COMBINATION DUE TO TRAILING VORTICES
ARC-CP-669 N64-25046 17-02

UNSTEADY MOTION OF SLENDER WINGS WITH LEADING EDGE VORTICES
NPL-AERO-1087 N64-25718 17-03

THEORETICAL AND OBSERVATIONAL STUDIES OF VORTEX CLOUD PATTERNS
GCA-TR-64-2-G N64-26517 18-21

VORTEX STRUCTURE OF CLOUD COVER ACCORDING TO WEATHER SATELLITE DATA
NASA-TT-F-206 N64-26783 18-21

RADIATION SPECTRUM FROM VORTEX-STABILIZED ARC FOR SOLAR SIMULATOR
AEDC-TDR-64-165 N64-27443 19-28

CLOUD PATTERNS, CLOUD DISTRIBUTION, AND VORTICES OVER ATLANTIC OCEAN SHOWN BY PHOTOGRAPHS FROM TIROS SATELLITES
ARA-F-9252-2 N64-32815 24-21

VORTEX BREAKDOWN
LOW SPEED WIND TUNNEL TESTS OF DELTA WING - LEADING EDGE VORTEX BREAKDOWN
ARC-R&M-3338 N64-13385 04-03

INTENSIFICATION OF HOMOGENEOUS COMBUSTION BY LOW FREQUENCY OSCILLATIONS - FORMATION AND BREAKDOWN OF VORTICES
FTD-MT-63-50/162 N64-18673 11-26

VORTEX DISTURBANCE
SEPARATED FLOW ABOUT LIFTING BODIES - VORTEX SEPARATION
MIT-DSR-9221 N64-18907 11-02

VORTEX FLOW
THEORY OF VORTEX FLOW IN TURBOMACHINES - AXIAL VELOCITY PROFILES GOVERNED BY SINGLE PARAMETER
ARC-R&M-3335 N64-10017 01-11

TURBULENT VORTEX FLOW, OPERATING CHARACTERISTICS & PERFORMANCE OF VORTEX MAGNETOHYDRODYNAMIC GENERATOR
NASA CR-55310 N64-13917 05-24

SECONDARY FLOWS IN JET DRIVEN VORTEX CHAMBERS
ATN-64/9227/-1 N64-18046 10-11

FLUID FRICTION AND BOILING HEAT TRANSFER WITH WATER IN VORTEX FLOW IN TUBES CONTAINING INTERNAL TWISTED TAPE
RADC-TDR-63-451 N64-18867 11-13

STEADY VORTEX FLOWS DRIVEN BY RADIAL CONVECTION OF ANGULAR MOMENTUM
ATN-64/9227/-4 N64-19246 11-11

VORTEX FLOW MULTIFUEL OPERATION OF HIGH-SPEED, TWO-STROKE, LOOP-SCAVENGED, AIR-COOLED, COMPRESSION-IGNITION COMBUSTION CHAMBER
AD-424504 N64-20157 13-26

VORTEX RECIRCULATION LIFT FOR GROUND EFFECT MACHINES
VRC-17 N64-21473 14-04

CONTROL CHARACTERISTICS OF VORTEX VALVES & BASIC OPERATING MECHANISM OF FLOW FIELD
N64-23813 16-11

VORTEX CONTROLLED PROPORTIONAL FLUID AMPLIFIER
N64-23814 16-11

VORTEX FLUID THROTTLE PERFORMANCE CHARACTERISTICS
N64-23815 16-11

VORTICITY AMPLIFICATION IN STAGNATION POINT FLOW AND EFFECT ON HEAT TRANSFER
ARL-64-91 N64-30816 22-13

MATHEMATICAL MODEL FOR VORTEX FLOW BEHAVIOR FROM PROPELLANT TANK
NASA-CR-59255 N64-33287 24-11

TURBULENT SHEAR IN JET-DRIVEN VORTEX CHAMBERS
ATN-64/9227/-5 N64-33358 24-02

VORTEX GENERATION
FORMATION OF VORTICES BEHIND CIRCULAR CYLINDERS IN INCOMPRESSIBLE FLOW
AGARD-463 N64-16539 08-23

FUEL CONTAINMENT IN GASEOUS CORE NUCLEAR ROCKET BY MAGNETOHYDRODYNAMIC DRIVEN VORTICES
D2-22408 N64-28743 20-07

VORTEX GENERATION - WIND TUNNEL AND IN-FLIGHT MEASUREMENTS
N64-33738 24-11

VORTEX GENERATOR
VORTEX MAGNETOHYDRODYNAMIC GENERATOR DEVELOPMENT
NASA-CR-55830 N64-16707 08-24

VORTEX SHEET
INTERSECTION OF REAL GAS SHOCK WAVES WITH WEAK VORTEX SHEETS, AND LAMINAR BOUNDARY LAYER SOLUTION WITH REAL GASES
NASA-CR-56413 N64-30503 22-11

VORTEX STREET
INSTABILITY OF THREE ROW VORTEX STREETS ON LEEWARD SIDE OF ISLAND GROUPS
PIBAL-784 N64-32135 23-11

VORTEX TRAIL
MOVEMENT AND STRENGTH TESTS OF WING TRAILING VORTICES OF DOUGLAS DC-8 JET TRANSPORT AIRCRAFT DURING TAKEOFF AND LANDING
RD-64-3 N64-14797 06-04

SAFETY HAZARD OF AIRCRAFT VORTEX WAKES AND PRECAUTIONS IN AIRPORT TERMINAL CONTROL
NASA-TM-X-51683 N64-20706 13-10

VORTEX TUBE
AXISYMMETRIC FLOW OF INCOMPRESSIBLE FLUIDS IN RIGHT-CYLINDRICAL VORTEX TUBES BOUNDED BY PLANAR END WALLS
ATN-64/9227/-2 N64-16874 08-11

SOLUTIONS OF NAVIER-STOKES EQUATIONS FOR TEMPERATURE DISTRIBUTIONS IN STEADILY ROTATED CYLINDRICAL VORTEX TUBE
AFOSR-TN-60-1227 N64-18049 10-11

BIBLIOGRAPHY - VORTEX TUBES
UCRL-7829 N64-23616 16-11

COUNTER VORTEX OSCILLATORS IN AXIALLY SYMMETRIC VORTEX TUBE
N64-23816 16-14

VORTICITY EQUATION
DERIVATIONS FOR SUBTROPICAL ANTICYCLONE MOTION, PSEUDO-GEOSTROPHIC RELATIVE MAGNITUDE, ABSOLUTE VORTICITY, AND CORIOLIS EQUATIONS
JPRS-18011 N64-10736 02-12

BOUNDARY LAYER FLOW, VORTICITY, EXTERNAL FLOW, AND BODY SURFACE CURVATURE
FTD-MT-63-167 N64-18688 11-11

NUMERICAL WEATHER FORECASTING - STATISTICAL ANALYSIS OF ERRORS IN LINEARIZATION OF VORTICITY EQUATION FOR DIFFERENT ATMOSPHERIC MOVEMENTS
N64-27937 20-21

VORTICITY TRANSPORT EQUATIONS RELATIVE TO INITIAL AND BOUNDARY CONDITION PERTURBATIONS
N64-27939 20-21

VOSTOK I SPACECRAFT
SPACE EXPLORATION OF VOSTOK I SPACECRAFT
N64-23846 16-32

ROLE OF RADIO ELECTRONICS IN SUCCESS OF VOSTOK I SPACECRAFT
FTD-TT-64-409/1 N64-33938 24-32

VOSTOK II SPACECRAFT
HUMAN PERFORMANCE UNDER EXTENDED WEIGHTLESSNESS DURING VOSTOK II SPACECRAFT FLIGHT
FTD-TT-64-147/164 N64-32457 22-32

VOSTOK III SPACECRAFT
BIOMEDICAL COMMUNICATIONS DESCRIPTION OF COSMONAUTS GROUP FLIGHT IN VOSTOK III AND IV SPACECRAFT
FTD-TT-62-1578/162 N64-12055 03-32

SPACE FLIGHT AND SPACE SCIENCE - VOSTOK III AND VOSTOK IV
FTD-TT-62-1546/162 N64-16397 08-29

FLIGHTS OF VOSTOK III AND VOSTOK IV
N64-16398 08-14

HUMAN EFFICIENCY, PERFORMANCE, AND COMMUNICATION DURING FLIGHTS OF VOSTOK III AND VOSTOK IV
N64-16399 08-14

SPACE EXPLORATION BY VOSTOK III & VOSTOK IV
N64-16400 08-29

FLIGHT DURATION AND PERFORMANCE OF VOSTOK III & VOSTOK IV SPACECRAFT N64-16401 08-29

RADIATION MEASUREMENTS IN SPACE OBTAINED BY COSMOS IV AND COSMOS VII SATELLITES PRIOR TO FLIGHT OF VOSTOK III & VOSTOK IV SPACECRAFT
N64-21640 15-29

RADIATION MONITORING DURING FLIGHT OF VOSTOK III AND VOSTO. IV SPACECRAFT N64-21641 15-28

MEASUREMENT OF RADIATION DOSES RECEIVED BY COSMONAUTS IN VOSTOK III AND VOSTOK IV SPACECRAFT FLIGHTS N64-21642 15-16

EFFECT OF SPACE FLIGHT CONDITIONS IN VOSTOK III SPACECRAFT ON SEED OF HIGHER PLANTS
N64-21643 15-16

EFFECT OF SPACE FLIGHT CONDITIONS ON CHROMOSOMES OF PRIMARY ROOTLETS OF GERMS IN PEA AND WHEAT SEEDS IN VOSTOK III AND VOSTOK IV SPACECRAFT
N64-21644 15-16

VOSTOK-3 AND VOSTOK-4 SPACECRAFT - SIMULTANEOUS FLIGHT AND LANDING
FTD-TT-63-306/1P&2&3&4 N64-22647 15-32

NUCLEAR EMULSION, SCINTILLATION PHOTODOSIMETER, AND X-RAY FILM FOR MEASUREMENT OF COSMIC RADIATION DOSE IN VOSTOK III AND IV SPACECRAFT
NASA-TT-F-8824 N64-22937 16-14

UPPER ATMOSPHERE SCALE HEIGHT DETERMINATION FROM VOSTOK III AND VOSTOK IV SATELLITE MEASUREMENTS OF ATMOSPHERIC DENSITY
RAE-TN-SPACE-31 N64-26496 18-12

GERM CELL MORTALITY IN DROSOPHILA AFTER VOSTOK III AND IV SPACE FLIGHTS N64-29093 21-16

DESCRIPTION BY COSMONAUT OF TRAINING AND FLIGHT IN VOSTOK III SPACECRAFT
FTD-TT-64-160/162 N64-30154 21-32

VOSTOK IV SPACECRAFT
BIOMEDICAL COMMUNICATIONS DESCRIPTION OF COSMONAUTS GROUP FLIGHT IN VOSTOK III AND IV SPACECRAFT
FTD-TT-62-1578/162 N64-12055 03-32

SPACE FLIGHT AND SPACE SCIENCE - VOSTOK III AND VOSTOK IV
FTD-TT-62-1546/162 N64-16397 08-29

FLIGHTS OF VOSTOK III AND VOSTOK IV
N64-16398 08-14

HUMAN EFFICIENCY, PERFORMANCE, AND COMMUNICATION DURING FLIGHTS OF VOSTOK III AND VOSTOK IV
N64-16399 08-14

SPACE EXPLORATION BY VOSTOK III & VOSTOK IV
N64-16400 08-29

FLIGHT DURATION AND PERFORMANCE OF VOSTOK III & VOSTOK IV SPACECRAFT N64-16401 08-29

RADIATION MEASUREMENTS IN SPACE OBTAINED BY COSMOS IV AND COSMOS VII SATELLITES PRIOR TO FLIGHT OF VOSTOK III & VOSTOK IV SPACECRAFT
N64-21640 15-29

RADIATION MONITORING DURING FLIGHT OF VOSTOK III AND VOSTOK IV SPACECRAFT N64-21641 15-28

MEASUREMENT OF RADIATION DOSES RECEIVED BY COSMONAUTS IN VOSTOK III AND VOSTOK IV SPACECRAFT FLIGHTS N64-21642 15-16

EFFECT OF SPACE FLIGHT CONDITIONS ON CHROMOSOMES OF PRIMARY ROOTLETS OF GERMS IN PEA AND WHEAT SEEDS IN VOSTOK III AND VOSTOK IV SPACECRAFT
N64-21644 15-16

VOSTOK-3 AND VOSTOK-4 SPACECRAFT - SIMULTANEOUS FLIGHT AND LANDING
FTD-TT-63-306/1P&2&3&4 N64-22647 15-32

SAFETY MEASURES AGAINST RADIATION HAZARD DURING VOSTOK III AND IV SPACE FLIGHTS
NASA-TT-F-8823 N64-22936 16-14

NUCLEAR EMULSION, SCINTILLATION PHOTODOSIMETER, AND X-RAY FILM FOR MEASUREMENT OF COSMIC RADIATION DOSE IN VOSTOK III AND IV SPACECRAFT
NASA-TT-F-8824 N64-22937 16-14

UPPER ATMOSPHERE SCALE HEIGHT DETERMINATION FROM VOSTOK III AND VOSTOK IV SATELLITE MEASUREMENTS OF ATMOSPHERIC DENSITY
RAE-TN-SPACE-31 N64-26496 18-12

GERM CELL MORTALITY IN DROSOPHILA AFTER VOSTOK III AND IV SPACE FLIGHTS N64-29093 21-16

VOSTOK V SPACECRAFT
TANDEM FLIGHT OF VOSTOK V AND VI SPACECRAFT
JPRS-21613 N64-10068 01-16

OUTER SPACE EXPLORATIONS AND FLIGHTS OF VOSTOK V & VI SPACECRAFT
JPRS-22139 N64-12889 04-01

HUMAN PERFORMANCE DURING FLIGHTS OF VOSTOK V AND VI SPACECRAFT N64-12891 04-32

RADIATION DOSE ON VOSTOK V AND VOSTOK VI SPACECRAFT N64-23865 16-16

MEASUREMENT OF AGGREGATE RADIATION DOSE ABOARD SOVIET SPACESHIPS-SATELLITES VOSTOK V AND VOSTOK VI SPACECRAFT
NASA-TT-F-8694 N64-29050 17-28

FLIGHTS OF VOSTOK V AND VOSTOK VI SPACECRAFT, & BIOTELEMETRY FOR PROLONGED SPACE FLIGHT
FTD-TT-64-34/1&2&3&4 N64-27824 19-32

SPACE FLIGHT OF VOSTOK V AND VOSTOK VI SPACECRAFT
FTD-TT-64-119/1&2&4 N64-27841 19-32

COSMIC RADIATION DOSE RECEIVED BY COSMONAUTS ABOARD VOSTOK V AND VI SPACECRAFT
N64-29089 21-28

EFFECT OF SPACE FLIGHT ON MICROSPORES ABOARD VOSTOK V AND VI SPACECRAFT N64-29091 21-16

VOSTOK VI SPACECRAFT
TANDEM FLIGHT OF VOSTOK V AND VI SPACECRAFT
JPRS-21613 N64-10068 01-16

OUTER SPACE EXPLORATIONS AND FLIGHTS OF VOSTOK V & VI SPACECRAFT
JPRS-22139 N64-12889 04-01

HUMAN PERFORMANCE DURING FLIGHTS OF VOSTOK V AND VI SPACECRAFT N64-12891 04-32

RADIATION DOSE ON VOSTOK V AND VOSTOK VI SPACECRAFT N64-23865 16-16

MEASUREMENT OF AGGREGATE RADIATION DOSE ABOARD SOVIET SPACESHIPS-SATELLITES VOSTOK V AND VOSTOK VI SPACECRAFT
NASA-TT-F-8694 N64-25050 17-28

FLIGHTS OF VOSTOK V AND VOSTOK VI SPACECRAFT, & BIOTELEMETRY FOR PROLONGED SPACE FLIGHT
FTD-TT-64-34/1&2&3&4 N64-27524 19-32

SPACE FLIGHT OF VOSTOK V AND VOSTOK VI SPACECRAFT
FTD-TT-64-119/1&2&4 N64-27841 19-32

COSMIC RADIATION DOSE RECEIVED BY COSMONAUTS ABOARD VOSTOK V AND VI SPACECRAFT
N64-29089 21-28

EFFECT OF SPACE FLIGHT ON MICROSPORES ABOARD VOSTOK V AND VI SPACECRAFT N64-29091 21-16

VOSTOK SPACECRAFT
SPACE EXPLORATION - OBSERVATIONS FROM COSMOS SATELLITES, MARS I, AND VOSTOK SPACECRAFT
FTD-MT-63-345 N64-33704 24-28

VOYAGER PROJECT
VOYAGER PROJECT - SYSTEMS ANALYSIS AND PARAMETRIC STUDY OF ORBITER-LANDER SPACECRAFT FOR MARS OR VENUS MISSIONS
RAD-TM-63-17, VOL. 1 N64-20021 13-30

VTOL AIRCRAFT
VERTICAL TAKEOFF AND LANDING AIRCRAFT IMPROVED DESIGN REQUIREMENTS N64-10172 01-04

IMPROVEMENT OF VTOL AIRCRAFT CONTROL FOR HOVERING FLIGHT
EWR-89-63 N64-10900 02-04

AIR INTAKE PROBLEMS IN VERTICAL TAKEOFF AIRCRAFT ENGINES
EWR-88-63 N64-10970 02-27

VTOL/STOL AIRCRAFT - BIBLIOGRAPHY N64-13902 05-04

AUTOMATIC CONTROL OF VTOL AIRCRAFT IN HOVERING FLIGHT N64-13925 05-04

SUBSONIC WIND-TUNNEL TESTING OF VTOL PROPELLER-TYPE AIRCRAFT
DTMB-AERO-1062 N64-14088 05-04

VTOL AIRCRAFT CONTROL & HANDLING QUALITIES
UAR-B175 N64-14141 05-04

WIND-TUNNEL STABILITY TESTS OF TILT-WING VTOL AIRCRAFT
NASA-TN-D-2133 N64-14728 06-04

WIND TUNNEL TESTS OF AERODYNAMIC STABILITY AND CONTROL CHARACTERISTICS OF VTOL AIRCRAFT POWERED BY FOUR DUCTED TANDEM PROPELLERS
NASA-TN-D-2254 N64-17750 09-04

EXHAUST NOZZLE TESTING USING COLD AIR FLOW TO FIND EFFECT OF EXIT DESIGN ON THRUST & JET WAKE DYNAMIC PRESSURE FOR USE IN VTOL DOWNWASH SUPPRESSION
NASA-TN-D-2263 N64-18958 11-02

TIME OPTIMIZATION OF TRANSITION FLIGHT OF VTOL AIRCRAFT
REPT.-5104-101/789 N64-19230 11-04

SIMULATOR TO IMPROVE HANDLING QUALITIES OF VTOL AIRCRAFT
LR-302 N64-19280 11-22

VTOL AIRCRAFT HANDLING QUALITY STUDIES USING FIXED BASE SIMULATORS OPERATING UNDER INSTRUMENT FLIGHT CONDITIONS
AGARD-471 N64-19854 12-04

HOVERING FLIGHT CONTROL REQUIREMENTS FOR VTOL AIRCRAFT
AGARD-472 N64-19855 12-04

FLOW SEPARATION ABOUT CONES AT INCIDENCE AND FAN-IN-WING AIRCRAFT ENGINE FOR VTOL AIRCRAFT
DME/NAE-1963/2/ N64-19916 12-02

MECHANICAL GYROSCOPIC STABILIZER FOR VTOL AIRCRAFT
REPT.-220A90-2 N64-21915 15-04

DISTURBANCE AND SPRAY CAUSED BY VTOL AIRCRAFT HOVERING ABOVE WATER
REPT.-012-26 N64-22907 16-04

GROUND PROXIMITY EFFECT ON PERFORMANCE OF POWERED LIFT VEHICLES WITH VTOL CONFIGURATIONS
TCEA-TN-14 N64-25031 17-04

TIP TURBINE-DRIVEN VTOL TURBOFAN
NRC-7761 N64-25130 17-04

FLIGHT TEST OF SCALE MODEL VECTORED-THRUST JET VTOL TRANSPORT AIRCRAFT
NASA-TN-D-2285 N64-26412 18-04

INTERFERENCE EFFECTS OF ROUND OR SLOTTED JETS ON VTOL AIRCRAFT MODEL IN TRANSITION
NASA-TN-D-2380 N64-26628 18-04

THRUST REQUIREMENTS VTOL SUPERSONIC MILITARY AND TRANSPORT JET AIRCRAFT
DFL-233 N64-27227 19-04

CONVENTIONAL AND VTOL FREIGHTER AIRCRAFT DESIGN STUDY
COA-AERO-171 N64-27515 19-04

MOVING COCKPIT PILOTED SIMULATOR TEST OF VTOL AIRCRAFT ALTITUDE CONTROL REQUIREMENTS DURING HOVER
NASA-TN-D-2451 N64-28059 20-10

AERODYNAMIC CHARACTERISTICS OF FAN-IN-WING VTOL AIRCRAFT MODEL - GROUND EFFECT WITH NOSE FAN PITCH CONTROL
NASA-TN-D-2368 N64-28323 20-04

VTOL AIRCRAFT DEVELOPMENT PROGRAM OUTPUT N64-30912 22-04

XC-142A VTOL TRANSPORT AIRCRAFT PROGRAM
MPR-27 N64-30913 22-04

EVALUATION OF LIFT ENGINES IN TACTICAL VTOL AIRCRAFT AND THERMIONIC ENERGY CONVERSION RESEARCH N64-31876 23-23

EVALUATION OF LIFT ENGINES IN TACTICAL VTOL AIRCRAFT N64-31877 23-04

INLET TEMPERATURE RISE & LIFT-FORCE OF JET-ENGINE POWERED VTOL AIRCRAFT IN GROUND EFFECT
REPT.-2099-928002 N64-32551 23-04

VULCANIZATION
LOW FRICTION COATINGS FOR VULCANIZED ELASTOMERS - BUTYL RUBBER
AD-443073 N64-29656 21-19

VZ- 2 AIRCRAFT
FORCE-TESTS OF SCALE MODEL OF MODIFIED VZ-2 AIRCRAFT
NASA-TN-D-2382 N64-26773 18-04

EFFECT OF WING STALLING IN TRANSITION ON 1/4-SCALE MODEL OF VZ-2 AIRCRAFT
NASA-TN-D-2381 N64-26840 18-04

W

WAFER
MECHANICAL POLISHING TECHNIQUE FOR SEMICONDUCTOR WAFERS
TR-1180 N64-12323 03-17

FAILURE IN SILICON OXIDE DIODE WAFERS & AMPLIFIERS AND LINEAR AMPLIFIERS
RADC-TDR-64-252 N64-33546 24-09

WAKE
SPARK SCHLIEREN PHOTOGRAPHS OF FREE & SUPPORTED CONE AND SPHERE MODEL SUPERSONIC & HYPERSONIC WAKES
NASA-CR-53014 N64-13270 04-02

NAVIER-STOKES EQUATIONS FOR SYMMETRIC STAGNATION & WAKE FLOW PAST SEMI-INFINITE PLATES
NWL-1886 N64-13642 05-11

VELOCITY DISTRIBUTION IN WAKE BEHIND BODIES OF REVOLUTION - MEASUREMENTS & THEORY
ASD-TDR-62-1103 N64-14688 06-02

EQUILIBRIUM COMPOSITION & TEMPERATURES CALCULATED IN WAKE OF SLENDER ABLATING BODY
EOS-RN-22 N64-15811 07-13

ECHO DETERMINATION OF LAMINAR MISSILE WAKE BY GRADIENT SCATTERING
RM-3466-ARPA N64-17301 09-08

SAFETY HAZARD OF AIRCRAFT VORTEX WAKES AND PRECAUTIONS IN AIRPORT TERMINAL CONTROL
NASA-TM-X-51683 N64-20706 13-10

FEASIBILITY OF IN SITU MEASUREMENTS OF REENTRY VEHICLE WAKES
AD-441549 N64-23981 16-02

STABLE COMBUSTION IN WAKES FORMED IN SUPERSONIC STREAM N64-26331 18-11

FLOW IN WAKE OF SELF-PROPELLED VEHICLE IN INFINITE TUBE - EFFECTS OF COMPRESSIBILITY, FRICTION, AND HEAT TRANSFER N64-30408 22-02

WAKE GENERATOR
WAKE GENERATOR EVALUATION USING SOUNDING ROCKET PAYLOADS
TDM-W-11,774, REV. 2 N64-18351 10-32

WALL
NOISE REDUCTION IN RECTANGULAR ENCLOSURES WITH ONE FLEXIBLE WALL N64-15173 07-23

TUNNEL WALL INTERFERENCE EFFECTS ON DRAG AND PITCHING MOMENT OF AXISYMMETRIC BODY
TM-501.8871-02 N64-15582 07-10

LAW OF WALL FLOW FOR TURBULENT BOUNDARY LAYERS WITH SUCTION OR INJECTION
COA-AERO-166 N64-19323 12-11

WALL ROUGHNESS EFFECTS ON INVISCID NONEQUILIBRIUM SUBSONIC AND SUPERSONIC FLOWS IN DUCTS
TDR-269/4230-20/-6 N64-20322 13-11

REDUCTION OF BOUNDARY LAYER THICKNESS IN LOW DENSITY NOZZLES BY WALL SUCTION AND COOLING
NASA-TM-X-53008 N64-20728 13-02

EFFECT OF WALL ILLUMINATION ON PERFORMANCE OF ANECHOIC CHAMBER IN MICROWAVE REGION IN MEASURING RADAR REFLECTION PROPERTIES OF MATERIALS & OBJECTS N64-24288 17-08

PRESSURE GRADIENT EFFECTS ON TURBULENT FLOW NEAR SMOOTH WALL
FLD-14 N64-24992 17-11

WALL EFFECTS ON DRAG OF BODY MOVING IN TUBE FOR VARIOUS BODY SHAPES, REYNOLDS NUMBERS, BODY-TO-DUCT RATIOS, AND TUBE-END CONDITIONS N64-30406 22-02

WALL FRICTION & HEAT TRANSFER EFFECTS ON MAGNETOHYDRODYNAMIC DEVICES
ISR-6 N64-32136 23-24

WALL JET
PLANE, STEADY, TURBULENT WALL JET IN MOVING FREE STREAM
ME-937-6309F N64-15599 07-11

TWO-DIMENSIONAL, TURBULENT WALL JET WITH & WITHOUT EXTERNAL FREE STREAM
AD-406073 N64-15703 07-11

FLOW OF INCOMPRESSIBLE TURBULENT WALL JETS OVER CURVED BOUNDARIES
REPT.-64-7 N64-22486 15-02

JETS AND WALL JETS IN UNIFORM STREAMING FLOW
REPT.-64-4 N64-23891 16-11

TWO-DIMENSIONAL BLOWING SLOT TO MEASURE DOWNSTREAM CHARACTERISTICS OF TURBULENT WALL JET IN STILL AIR
TN-64-50 N64-25102 17-10

TWO-DIMENSIONAL THEORY OF WALL AND BOUNDARY EFFECTS ON SUPERCAVITATING HYDROFOIL PERFORMANCE
REPT.-145 N64-31434 23-11

WALL PRESSURE
FLUCTUATING WALL PRESSURE UNDER SEPARATED, SUPERSONIC, TURBULENT BOUNDARY LAYER
NASA-CR-52528 N64-10441 01-11

WALL PRESSURE FLUCTUATIONS IN TURBULENT BOUNDARY LAYER & RESPONSE OF STRUCTURES TO RANDOM PRESSURE FIELDS
AASU-243 N64-13069 04-01

WALL PRESSURE FLUCTUATIONS IN SUBSONIC TURBULENT BOUNDARY LAYER FLOW N64-13070 04-02

TURBULENT BOUNDARY LAYER FLUCTUATING WALL-PRESSURE FIELD PROPERTIES
AGARD-455 N64-16313 08-11

CORRELATION BETWEEN FLUCTUATING VELOCITIES AND FLUCTUATING WALL PRESSURE IN THICK TURBULENT BOUNDARY LAYER
AGARD-456 N64-17234 09-11

WALL PRESSURE FLUCTUATIONS & PRESSURE-VELOCITY CORRELATIONS IN TURBULENT BOUNDARY LAYERS
NASA-TR-R-165 N64-17994 10-11

WALL PRESSURE FLUCTUATIONS UNDER TURBULENT BOUNDARY LAYERS AT SUBSONIC AND SUPERSONIC SPEEDS
AGARD-454 N64-19937 12-11

WALL PRESSURE FLUCTUATIONS UNDER TURBULENT SEPARATED SUPERSONIC FLOW
NASA-CR-56564 N64-23988 16-11

WALL PRESSURE FLUCTUATIONS AND PRESSURE VELOCITY CORRELATIONS IN TURBULENT BOUNDARY LAYERS CREATED BY AERODYNAMIC NOISE
AGARD-453 N64-31296 22-11

WALL TEMPERATURE
BEHAVIOR OF CONFINED FLUID UNDER NONUNIFORM SOURCE AND WALL HEATING
NASA-TN-D-2079 N64-10467 01-11

CONVECTIVE HEAT TRANSFER RATE TO SHOCK TUBE END WALL FROM MONATOMIC GAS HEATED BY REFLECTED SHOCK - IONIZATION EFFECTS
BSD-TDR-63-47 N64-12293 03-11

WALL TEMPERATURES IN TUBE OF HEAT EXCHANGER WITH FORCED CONVECTION
NASA-TN-D-2116 N64-16929 09-13

METHOD FOR CALCULATING SURFACE TEMPERATURE OF WALLS UNDER AERODYNAMIC HEATING WITH GIVEN HEAT TRANSFER COEFFICIENT AND WALL TEMPERATURE
WRE-TN-HSA-95 N64-19072 11-13

CHEMICALLY REACTING LAMINAR AIR BOUNDARY LAYER

EQUATIONS FOR CONE SHAPED REENTRY BODIES AT VARIED FLIGHT CONDITIONS AND WALL TEMPERATURES
R64SD14 N64-19135 11-11

CONDUCTIVE HEAT TRANSFER IN SINGLE AND DOUBLE LAYER WALLS WITH BOUNDARY CONDITIONS APPROPRIATE TO AERODYNAMIC HEATING
HSA-16 N64-21202 14-13

MATHEMATICAL MODEL OF COMBUSTION PROCESS TO DETERMINE RELATIONSHIP BETWEEN CHAMBER WALL TEMPERATURE AND COMBUSTION DISTURBANCES
FTD-TT-64-616/1&2 N64-26818 18-26

CALCULATING INSIDE WALL SURFACE TRANSIENT TEMPERATURES FOR SOLID PROPELLANT ROCKET NOZZLES
ABL/Z-73 N64-29896 21-13

WALL TEMPERATURE DISTRIBUTION FOR LAMINAR FORCED CONVECTION IN RECTANGULAR CHANNELS WITH UNEQUAL HEATING ON ADJACENT SIDES
NASA-RP-316 N64-31444 23-13

WALLOPS ISLAND
MEASUREMENT CAPABILITY OF UHF RADAR AT WALLOPS ISLAND
TECH. REPT.-305 N64-13996 05-10

WAR GAME
EVALUATION OF AUTOMATED HYPOTHESIS AIDS IN MULTIMAN-MACHINE SYSTEMS TO ASSESS OR DIAGNOSE THREATS - BAYES THEOREM
AMRL-TDR-64-51 N64-33907 24-14

WARFARE
SOVIET MILITARY STRATEGY
FTD-TT-62-1289/1&2&3&4 N64-15589 07-01

TACTICAL AIR WARFARE FORCE ALLOCATION - OPERATIONS RESEARCH
ESD-TDR-63-644, VOL. 1 N64-16496 08-01

TACTICAL AIR WARFARE FORCE ALLOCATION - OPERATIONS RESEARCH
ESD-TDR-63-664 N64-16511 08-01

MILITARY COMMAND AND CONTROL SYSTEMS PLANNING - POLITICAL WAR GAMES
HI-285-RR, VOL. 3 N64-18253 10-01

NEED FOR IMPROVISATION IN TACTICAL RECONNAISSANCE IN LIMITED WAR N64-19907 12-01

AIRMAT STRUCTURES FOR SPACE AND LIMITED WAR APPLICATION N64-23703 16-31

LIMITED APPLICATIONS FOR EXPANDABLE STRUCTURES N64-23706 16-01

WARHEAD
OPTIMIZATION OF CHARGE-TO-METAL RATIOS IN WARHEADS WITH FIXED WEIGHT OR FIXED VOLUME LIMITATIONS
NAVWEPS-8471 N64-21174 14-01

EXACT MATHEMATICAL DERIVATION OF EXPECTED DAMAGE TO CIRCULAR TARGET BY MULTIPLE WARHEAD
NWL-1936 N64-31661 23-20

WARNING DEVICE
ANALOG SIMULATION OF ATTACK WARNING SYSTEM FOR SUPERSONIC AIRCRAFT
ASD-TDR-63-850 N64-11456 03-20

NATIONAL EMERGENCY ALARM REPEATER RECEIVER USING SOLID STATE CIRCUITRY
AD-426197 N64-13604 05-08

WARNING SYSTEM
ALARM SYSTEM FOR SURVEILLANCE OF SYNCHROCYCLOTRON
CERN-64-7 N64-18343 10-09

ATMOSPHERIC TURBULENCE ENCOUNTERED BY COMET II AIRCRAFT CARRYING CLOUD COLLISION WARNING RADAR
ARC-CP-713 N64-28847 20-04

WASHOUT
RADIOACTIVE FALLOUT DEPOSITION AND WASHOUT COMPUTATIONS BASED ON GENERALIZED GAUSSIAN PLUME MODEL
ORO-599 N64-10158 01-23

WASTE
WASTE UTILIZATION ON LONG TERM SPACE FLIGHT - LIFE SUPPORT SYSTEM N64-23742 16-16

BURNING FOR DESTRUCTION OF ACTIVITY WASTE OF ORGANISMS N64-23780 16-16

FLUIDIZED-BED CALCINATION PROCESS FOR ALUMINUM NITRATE WASTES FROM REACTOR FUELS
IDO-14627 N64-27075 19-07

RECOVERY AND ISOLATION OF TECHNETIUM FROM FISSION PRODUCT WASTES
NASA-CR-58966 N64-33157 24-18

WASTE DISPOSAL
CF METABOLIC WASTE
ISOTOPE TECHNOLOGY RESEARCH IN FIELDS OF WASTE DISPOSAL, WATER, AIR POLLUTION, AND WEATHER
TID-7681 N64-16018 07-23

URINE EVACUATING SYSTEM FOR USE IN FULLY PRESSURIZED SUITS
SAM-TDR-64-13 N64-17958 10-16

MINIMUM CHIMNEY HEIGHTS FOR BURNING WASTES - NOMOGRAPHS
E-T-G-63-29 N64-18662 11-11

CHEMISTRY AND ATOMIC ENERGY - NUCLEAR REACTOR FUEL AND WASTE PROCESSING, TRANSURANIUM ELEMENTS, FISSION PRODUCT EXTRACTION, RADIATION EFFECTS, AND DECONTAMINATION
ORNL-3627 N64-31061 22-07

TREATMENT OF UNDILUTED HUMAN WASTE BY ACTIVATED SLUDGE PROCESS
AAL-TDR-63-36 N64-32115 23-16

WASTE UTILIZATION
CLOSED ECOLOGICAL SYSTEMS FOR WATER RECOVERY & WASTE UTILIZATION DURING MANNED SPACE FLIGHT
R63SD83 N64-33604 24-16

WATER
SA VADOSE
CF BODY FLUID
SOIL CONDUCTIVITY AND CORRELATION TO COMPOSITION, SALT, & WATER CONDITIONS N64-10279 01-12

HYGIENE & SANITATION - EFFECT OF LOW CONCENTRATION OF FLUORINE, SANITARY INDICES FOR WATER RESERVOIR, AND AIR IONIZATION
JPRS-19067 N64-11064 02-16

CARBON DIOXIDE ABSORPTION BY WATER IN VENTURI GAS-LIQUID CONTACTOR - MASS TRANSFER N64-11653 03-11

EFFECT OF RATE OF ENERGY RELEASE IN ELECTRIC EXPLOSIONS IN WATER & DISTRIBUTION OF EXPLOSIVE ENERGY N64-11716 03-11

AGE OF FISSION NEUTRONS TO INDIUM RESONANCE ENERGY IN WATER
NAA-SR-8621 N64-11956 03-23

EFFECT OF WATER & WATER VAPOR IN STABLE CRACK EXTENSION AND DELAYED FRACTURE IN HIGH STRENGTH STEEL
NRL-TM-240 N64-12077 03-18

AIR, FALLOUT, AND SURFACE WATER RADIOACTIVITY MEASUREMENTS AT MANY POSTS IN EUROPE FOR EURATOM
EUR-461.D,F,I,N N64-12137 03-23

BACKSCATTERING CROSS SECTION MIXTURES OF ICE & WATER - RADAR ECHO
AFCRL-63-760 N64-12294 03-23

DESTRUCTIVE EFFECT OF ELECTRICAL PULSE DISCHARGE IN WATER ON CONCRETE & CHALK
FTD-TT-63-385/1&2 N64-12314 03-23

ENERGY DEPOSITED IN WATER, COPPER, AND ALUMINUM BY ELECTRON BEAM N64-12534 04-23

ENERGY DEPOSITION DISTRIBUTION IN WATER-FILLED PHANTOM BY INTERACTIONS OF 160-MEV PROTON BEAM
ORNL-3457 N64-12546 04-23

ENERGY DEPOSITION DISTRIBUTION IN WATER-FILLED PHANTOM DUE TO 14-MEV & POLONIUM-BERYLLIUM
N64-12547 04-23

WATER PERMEABILITY OF FROZEN SANDY SOIL
FTD-TT-63-927/1&2 N64-12617 04-12

WATER EXCHANGE BETWEEN EARTH & INTERPLANETARY SPACE
FTD-TT-63-841/1 N64-12619 04-12

VENTILATING AIRFLOW EFFECT ON WATER REQUIREMENTS OF MEN WEARING PARTIALLY AND FULLY DONNED PRESSURE SUITS
SAM-TDR-63-59 N64-12855 04-16

ELECTROLYSIS OF WATER IN HYDRATED PHOSPHORUS PENTOXIDE ELECTROLYTES - OXYGEN PRODUCTION SYSTEM
AMRL-TDR-63-95 N64-12979 04-17

COLOR REMOVAL FROM SURFACE WATER BY CARBON FILTER AS CHLORINATION SUBSTITUTE
AAL-TDR-62-37 N64-13644 05-07

ATTENUATION OF EQUILIBRIUM TEMPERATURE GRADIENTS IN SPACE SUITS USING WATER
AMRL-TDR-63-80 N64-13653 04-16

IMPLICATIONS OF WATER AS LUNAR RESOURCE
N64-13708 05-29

LOCATING LUNAR WATER DEPOSITS N64-13709 05-29

SPECTRAL EMISSIVITIES AND INTENSITIES OF WATER 1.87 MICRON BAND
GD/A-63-1219 N64-14480 06-13

WATER & ION SHIFTS IN CENTRAL NERVOUS SYSTEM OF FROG - MORPHOLOGY N64-14593 06-16

SURVEILLANCE OF RADIOACTIVE MATERIALS IN AIR, WATER, AND FOOD
HW-79652 N64-14924 06-16

BEHAVIOR OF LIQUIDS IN PERIODS OF WEIGHTLESSNESS DURING FREE-FALL TESTS, USING MERCURY OR WATER IN TEFLON CONTAINER
JPRS-23259 N64-14996 06-29

RADIATION BANDS FROM CARBON DIOXIDE AND WATER - EARTH INFRARED HORIZON SCANNER ON SPACE VEHICLE AND SATELLITE ORIENTATION SYSTEM
N64-14999 06-12

QUANTITATIVE SPECTROSCOPIC STUDIES ON WATER VAPOR AND LIQUID WATER
TECH. REPT.-43 N64-15001 07-23

TRANSMISSION OF INFRARED RADIATION THROUGH LIQUID WATER AND WATER VAPOR NEAR SATURATION LIMITS
N64-15003 07-23

SPECTRAL ABSORPTION COEFFICIENTS OF LIQUID WATER AT TEMPERATURES BETWEEN 27 AND 209 DEG. C.
N64-15004 07-23

INFRARED SPECTROSCOPIC STUDY OF TRIBUTYL PHOSPHATE NITRIC ACID WATER SOLVENT EXTRACTION SYSTEM
IS-728 N64-15671 07-07

PSYCHOLOGY OF WATER IMMERSION TECHNIQUE FOR SIMULATING WEIGHTLESSNESS - AVIATION MEDICINE
NADC-MA-6328 N64-15755 07-14

MEASUREMENT OF TRACE CONCENTRATIONS OF AMMONIA IN WATER
HW-79296 N64-15915 07-07

EFFECT OF WATER CORROSION PRODUCTS ON SLUDGE FORMATION
FTD-TT-63-964/1&2 N64-16050 07-23

WATER PURIFICATION BY OSMOSIS THROUGH MEMBRANES
NASA-CR-55701 N64-16320 08-06

ORGANIC COMPOUNDS IN LAKE WATER OF NEW ZEALAND
N64-17595 09-07

DEPENDENCE OF INFRARED ABSORPTANCE ON PARTIAL PRESSURE FOR CARBON DIOXIDE & WATER - COMBUSTION GAS ANALYSIS FOR PROPULSION RESEARCH
NASA-CR-54002 N64-17598 09-26

RESPIRATORY PHYSIOLOGY AND GAS EXCHANGE IN WATER MEDIUM N64-17956 10-16

TRANSMISSION AND ATTENUATION OF RUBY LASER LIGHT THROUGH WATER
NRL-5941 N64-20847 14-25

NUCLEAR BOILING OF WATER AT ATMOSPHERIC PRESSURE AND MEASUREMENT OF SURFACE TEMPERATURE VARIATIONS
EUR-1622.F N64-20881 14-13

CRITICAL DIMENSIONS OF URANIUM-GRAPHITE-WATER SPHERES, INFINITE SLABS, AND INFINITE CYLINDERS
LAMS-2955 N64-20885 14-23

CONDUCTANCE OF ALKALI HALIDES IN WATER-GLYCEROL AND IN WATER-ETHYLENE GLYCOL MIXTURES
AD-432997 N64-21393 14-07

ELECTROCHEMICAL TECHNOLOGY APPLICABLE TO WATER ELECTROLYSIS
EDR-3687, VOL. II N64-21835 15-07

OPERATING CONDITIONS OF EXTREMAL SYSTEM FOR WATER CONTROL N64-23082 16-09

AUTOMATIC CONTROL OF WATER LEVEL SUPPORTING STRUCTURES IN IRRIGATION CHANNELS
N64-23084 16-09

WATER DETECTION IN VENUS ATMOSPHERE
NASA-TT-F-8875 N64-23128 16-05

WATER AND CARBON DIOXIDE FREEZEOUT IN HEAT EXCHANGERS
ASD-TDR-63-508, VOL. 3 N64-23360 16-13

EFFECT OF FATTY ALCOHOL MONOLAYERS ON WATER DROPLETS AND CONDENSATION NUCLEI - FOG PROPERTIES
NASA-CR-52851 N64-24024 16-21

SOLUBILITY OF NEON IN WATER AND EXTRACTED HUMAN FAT
SAM-TDR-64-28 N64-24141 16-16

TREATMENT OF HOT-SPRING WATER WITH SOLID INHIBITORS TO REDUCE SCALING AND CORROSION
N64-24278 17-07

INFRARED ABSORPTION SPECTRUM OF WATER IN LIQUID STATE
NASA-TT-F-211 N64-24834 17-07

CONCEPTUAL DESIGN OF COMPACT MOBILE ELECTROLYSIS UNIT FOR PRODUCTION OF HYDROGEN FROM WATER
EDR-3714, VOL. 1 N64-25524 17-06

ELECTRICAL PHENOMENA AT ICE/WATER INTERFACE
TR-1 N64-25778 17-09

FIRE RESISTANT WATER BASE HYDRAULIC FLUID
BR-1 N64-26429 18-17

DETERMINATION OF METALLIC IMPURITIES IN WATER BY ATOMIC ABSORPTION SPECTROMETRY
DP-879 N64-26487 18-07

DETECTION OF WATER IN ATMOSPHERE OF VENUS
N64-27154 19-05

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON DIOXIDE
AMRL-TDR-64-35 N64-27432 19-16

PREVENTION OF BERYLLIUM METAL CORROSION BY HIGH TEMPERATURE WATER
BDC-TR-335 N64-28002 20-18

ELECTRICAL CONDUCTIVITY OF WATER UNDER SHOCK

COMPRESSION
BRL-MEMO-1563 N64-28156 20-11

PHOTOCATALYZED DECOMPOSITION OF WATER INTO GASEOUS HYDROGEN AND OXYGEN, AND MECHANISMS OF INTRAMOLECULAR ELECTRON TRANSFER IN ORGANIC COMPOUNDS
AFCRL-64-431 N64-28576 20-07

DRAG REDUCTION ON BODIES MOVING THROUGH WATER BY USE OF SOLUBLE POLYMER ADDITIVES
N64-28804 20-11

ANNOTATED BIBLIOGRAPHY ON CORROSION EFFECTS OF PURE AND DISTILLED WATER
NASA-CR-58640 N64-28887 20-18

SPECTRAL EMISSIVITIES OF WATER BETWEEN 4 MICRONS AND 22 MICRONS FOR TEMPERATURES OF 550 DEGREES TO 2,200 DEGREES K
GDA-DBE64-046 N64-28904 20-23

SELF-PURIFICATION OF CESIUM 137 FROM WATER AND CHEMICAL COMPOSITION OF ALGAE
JPRS-26056 N64-29032 21-16

SELF-PURIFICATION OF CESIUM 137 FROM WATER IN WEAKLY RUNNING RESERVOIRS N64-29033 21-16

THIN FILM SENSORS FOR DETECTION OF WATER IN LIQUID NITROGEN TETROXIDE
RTD-TDR-63-1079 N64-29311 21-15

TWO ENERGY STORAGE SYSTEMS - STORAGE IN HIGH INTENSITY MAGNETIC FIELDS AND BY ELECTROLYSIS OF WATER STORING HYDROGEN AT HIGH PRESSURE
N64-29490 21-06

SUSPENSION OF ORGANIC MATTER IN WATER TO INCREASE YIELD OF PORPHINE-LIKE SUBSTANCES
N64-29663 21-16

ALUMINUM EXTRACTION CHARACTERISTICS OF CALCIUM ALUMINATES IN WATER AND IN SOLUTIONS OF SODIUM HYDROXIDE AND SODIUM CARBONATE
BM-RI-6528 N64-30129 21-07

FRESH-WATER, BRACKISH-WATER, AND MARINE ECOLOGY OF FLORIDA EVERGLADES
ML-63609 N64-30195 21-16

MEASURING YIELDS OF HYDROGEN PEROXIDE PRODUCED IN PURE AERATED WATER BY PROTON BEAMS
LFEN.15 /ALPHA/ N64-30248 22-23

ONE-CENTER SELF-CONSISTENT FIELD MOLECULAR ORBITAL WAVE FUNCTIONS FOR GROUND STATES OF WATER, HYDROGEN SULFIDE, AND HYDROGEN CHLORIDE MOLECULES
N64-30317 22-23

ABSORPTION OF DISTILLED WATER, SEA WATER, AND HEAVY WATER IN VISIBLE SPECTRUM
AFCRL-64-481 N64-30547 22-23

SMALL AMPLITUDE, LONG WATER WAVE THEORY DEVELOPED BY EXPANSION
ONR-TR-16 N64-30614 22-11

REDUCED GRAVITY EFFECT ON NUCLEATE BOILING BUBBLE DYNAMICS IN SATURATED WATER
NASA-RP-320 N64-31210 22-13

DETERMINING POLLUTION OF SURFACE WATERS BY EGGS OF ECHINOCOCCUS
AAL-TDR-63-37 N64-32102 23-16

COMPUTER PROGRAM FOR CALCULATING SLOW NEUTRON SCATTERING CROSS SECTION WITH APPLICATION TO WATER
IDO-16984 N64-32183 23-23

HYDRODYNAMIC FORCE AND SPRAY TESTS ON WING END PLATES PENETRATING WATER SURFACE
GD/C-64-100 N64-32463 23-11

CONTINUOUS RECORDING INSTRUMENT FOR WAVE PATTERNS ON WIND-AGITATED WATER SURFACE
AECL-2051 N64-32660 23-15

COMPARATIVE EFFECT OF EQUIMOLECULAR SOLUTIONS, DISTILLED, AND VICHY WATER ON WATER TOXICITY
NASA-TT-F-9108 N64-33392 24-16

DISTURBANCE OF OSMOTIC TISSUE REGULATION IN WATER TOXICITY
NASA-TT-F-9110 N64-33393 24-16

WATER AND MINERAL METABOLIC WASTE IN INSULIN EDEMA
NASA-TT-F-9112 N64-33395 24-16

WATER INTOXICATION & DIURESIS IN ADRENAL INSUFFICIENCY AND SIGNIFICANCE OF ADRENAL GLAND IN OSMOREGULATION
NASA-TT-F-9115 N64-33397 24-16

WATER TOXICITY STUDIES - ERYTHROCYTE AND HEMOGLOBIN RESISTANCE, AND CARBON DIOXIDE CONTENT OF BLOOD PLASMA
NASA-TT-F-9125 N64-33401 24-16

EFFECTS OF HAND IMMERSION IN COLD WATER ON DIGITAL BLOOD FLOW
AAL-TDR-63-35 N64-33524 24-16

NUCLEATION & CONDENSATION OF WATER
AD-443693 N64-33825 24-11

WATER BALANCE
CORTICAL REGULATION OF WATER & SALT METABOLIC BALANCE
JPRS-22523 N64-12392 03-16

HEAT AND WATER BALANCES IN CLIMATOLOGY - METHODS, COMPUTATION PRECISION, AND RELATIONSHIP
JPRS-23924 N64-18347 10-21

HYDROGRAPH PRECALCULATION BY WATER BALANCE METHOD USING ELECTRONIC ANALOG COMPUTER
N64-28402 20-12

WATER INTOXICATION DUE TO GASTRIC LAVAGE IN CASES OF SUSPECTED ANILINE POISONING
NASA-TT-F-9056 N64-31445 23-16

WATER CONTENT
CLOUD LIQUID-WATER CONTENT BY MICROWAVE RADIOMETRY
N64-10917 02-21

NEW UPPER LIMIT FOR WATER VAPOR CONTENT OF MARS ATMOSPHERE FROM HIGH DISPERSION SPECTROGRAM
NASA-CR-53004 N64-13274 04-20

DEVICE FOR MEASURING WATER CONTENT OF CLOUDS AND RAIN
FTD-TT-63-621/1&2 N64-16380 08-21

OPTICAL MEASUREMENT OF CONCENTRATION OF WATER DROPLETS IN ATMOSPHERE
FTD-TT-62-1803/1&2&4 N64-22637 15-21

DROP SIZE DISTRIBUTION & LIQUID WATER CONTENT IN NATURAL CLOUDS BY IMPACT ON CHARGED METAL TARGETS PRODUCING ELECTRIC PULSES
AFCRL-64-621 N64-30005 21-21

NUCLEAR, INORGANIC, ISOTOPE, RADIATION, & ORGANIC CHEMISTRY - AQUEOUS SYSTEMS, ELECTROCHEMICAL KINETICS, CHEMICAL PHYSICS, AND WATER RESEARCH
ORNL-3679 N64-30664 22-07

WATER COOLED REACTOR
THERMAL & HYDRAULIC CHARACTERISTICS OF ROD BUNDLES COOLED BY FORCED FLOW OF WATER WITH BULK BOILING AT HIGH PRESSURE
DP-857 N64-11777 03-13

WATER FLOW
EDDY THERMAL DIFFUSIVITY FOR TURBULENT FLOW OF WATER IN PIPES
IS-734 N64-12014 03-11

WATER FLOW CHANNEL AND INSTRUMENTATION AND APPLICATION TO AERODYNAMIC DECELERATION
RTD-TDR-63-4024 N64-18938 11-18

WATER VAPOR AND ITS FLOW OVER NORTHERN HEMISPHERE DURING INTERNATIONAL GEOPHYSICAL YEAR /IGY/
AFCRL-63-928 N64-19410 12-21

WATER PERMEABILITY OF FROZEN GROUND
FTD-TT-63-928/1&2 N64-21959 15-12

THERMODYNAMICS OF NONEQUILIBRIUM FLOW, WATER FLOW BREAKUP, AND FLAME FRONT STRUCTURES
FTD-TT-63-839/1&2&4 N64-23651 16-11

SUPERCRITICAL BREAKUP OF DROPLETS AND FLUID STREAM OF WATER BY DYNAMIC PRESSURE OF AIR SHOCK WAVE
N64-23653 16-11

WATER INTAKE
INFLUENCE OF WATER INGESTION AND THIRST ON STARVATION METABOLISM
NASA-TT-F-9106 N64-33391 24-16

EFFECT OF WATER INTAKE ON SODIUM CHLORIDE BALANCE
NASA-TT-F-9111 N64-33394 24-16

ASSIMILATION OF LARGE SUDDENLY INGESTED QUANTITIES OF WATER BY PATIENTS
NASA-TT-F-9114 N64-33396 24-16

BLOOD THINNING AND SODIUM CHLORIDE LOSS WITH INCREASED WATER INTAKE
NASA-TT-F-9116 N64-33398 24-16

WATER JET
EFFECT OF AMBIENT AIR VELOCITY ON ATOMIZATION OF TWO IMPINGING WATER JETS
NASA-TN-D-2087 N64-15219 07-11

BREAKUP OF WATER JET IN TRANSVERSE FLOW OF NITROGEN GAS
NASA-TN-D-2424 N64-28326 20-11

WATER LANDING
WATER IMPACT OF MERCURY CAPSULE - CORRELATION OF ANALYSIS WITH TEST DATA
NASA-CR-55251 N64-13401 04-32

MINIATURIZED TELEMETERING PACKAGE FOR DATA ACQUISITION AT HIGH SPEED WATER ENTRY
GD/C-64-108 N64-28455 20-08

MISSILE IMPACT LOCATING SYSTEM/BROAD OCEAN AREA - POST-TEST CALIBRATION N64-29110 21-08

WATER LOSS
WATER TRANSFER FROM SOIL TO ATMOSPHERE AS RELATED TO SOIL PROPERTIES, PLANT CHARACTERISTICS, AND WEATHER N64-12988 04-12

MEASUREMENT OF PHYSIOLOGIC EVAPORATIVE WATER LOSS
CARI-63-25 N64-29846 21-16

WATER MODERATED REACTOR
BIBLIOGRAPHY OF BOILING LIGHT WATER, GAS COOLED, LIQUID METAL, AND PRESSURIZED LIGHT WATER REACTORS
HW-66666, REV. 2 N64-11947 03-10

CORROSION OF STAINLESS STEEL BY SIMULATED WATER MODERATED REACTOR FUEL - DEPLETED URANIUM OXIDE IN NITRIC OR PHOSPHORIC ACID
LA-3101 N64-29772 21-18

WATER PURIFICATION
WATER PURIFICATION BY OSMOSIS THROUGH MEMBRANES
NASA-CR-55697 N64-16280 08-06

WATER PURIFICATION BY OSMOSIS THROUGH MEMBRANES
NASA-CR-55698 N64-16281 08-06

WATER PURIFICATION BY OSMOSIS THROUGH MEMBRANES
NASA-CR-55701 N64-16320 08-06

CHEMISTRY & TECHNIQUE OF WATER PURIFICATION, STRENGTH & DUCTILITY, AND MICROBIOLOGICAL SYNTHESIS OF PROTEINS & OTHER SUBSTANCES
JPRS-24494 N64-19785 12-23

OPTIMUM MATERIALS FOR DUAL MEMBRANE FUEL CELL MATERIAL - EVALUATION OF ION EXCHANGE MEMBRANES FOR OSMOTIC WATER PURIFICATION STILL
NASA-CR-43 N64-21252 14-06

HYDROPURIFICATION OF REFINED DIESEL OIL WITH ALUMINUM-NIOBIUM-MOLYBDENUM CATALYST
FTD-TT-62-1739/1&2&4 N64-22632 15-07

WATER RECOVERY
URINE ULTRAFILTRATION FOR WATER RECOVERY USING MEMBRANE FILTERS
NASA-CR-51575 N64-11383 02-16

CONVERTING URINE AND WASH WATER INTO DRINKABLE FORM BY MODEL INTEGRATED WATER RECOVERY SYSTEM
AMRL-TDR-63-88 N64-12217 03-06

POTABLE WATER PRODUCTION BY VACUUM DISTILLATION IN TWO-MAN SPACE CABIN SIMULATOR
SAM-TDR-63-60 N64-12246 03-16

USE OF COAL DUST AND CARBON BLACK ON SNOW AND ICE TO ENHANCE MELTING - WATER RECOVERY
N64-12790 04-21

EXPERIMENTAL ULTRAFILTRATION SYSTEM FOR RECOVERING POTABLE WATER FROM URINE USING MEMBRANE FILTERS
AMRL-TDR-63-113 N64-14695 06-16

VAPOR PRESSURE CONTROL TECHNIQUE FOR REMOVAL OF BYPRODUCT WATER FROM HYDROGEN-OXYGEN FUEL CELLS
NASA-CR-55778 N64-16274 08-06

TEST APPARATUS FOR DEVELOPMENT OF OSMOTIC STILL TO REMOVE POTABLE WATER FROM ELECTROLYTES IN DUAL MEMBRANE FUEL CELLS
NASA-CR-55699 N64-16276 08-06

MATERIALS AND SINTERED ELECTRODE TESTING, FUEL CELL DESIGN, AND CHECKOUT OF TEST RIG FOR OSMOTIC STILL AND DUAL MEMBRANE FUEL CELL
NASA-CR-55702 N64-16278 08-06

MEMBRANE AND ELECTRODE TESTING AND MATERIAL ANALYSIS FOR OSMOTIC STILL AND DUAL MEMBRANE FUEL CELL
NASA-CR-55693 N64-16279 08-06

MEMBRANE, ELECTRODE, AND FUEL CELL TESTING IN DEVELOPMENT OF OSMOTIC STILL AND IMPROVEMENT OF DUAL MEMBRANE FUEL CELL
NASA-CR-55695 N64-16282 08-06

DESIGN SPECIFICATIONS, TEST RIG, AND MEMBRANE PERFORMANCE FOR OSMOTIC STILL - CELL TESTING AND ASSEMBLY FOR DUAL MEMBRANE FUEL CELL
NASA-CR-55696 N64-16319 08-06

WATER RECOVERY FROM URINE BY FREEZE DRYING PROCESS USING MICROWAVE ENERGY SOURCE
AMRL-TDR-63-130 N64-18789 11-16

REFRASIL FIBERGLASS BATT LIQUID LOCK MATERIAL AND CAPILLARY TUBE CONFIGURATIONS FOR ZERO GRAVITY WATER SEPARATOR SYSTEMS
NA-63-1097 N64-19303 12-06

WASH WATER RECOVERY FOR EXTENDED DURATION SPACE FLIGHTS
AIAA PAPER-64-212 N64-21538 15-16

REGENERATION OF WATER IN SPACESHIP CABIN
N64-23743 16-16

MULTIFILTER SYSTEM FOR RECOVERING POTABLE AND WASH WATER FROM CABIN AIR DEHUMIDIFIERS
N64-28949 20-16

WATER RECOVERY FROM URINE BASED ON ULTRAFILTRATION AFTER ELECTROLYTIC UREA REMOVAL
NASA-CR-58700 N64-29503 21-07

EXPLOITATION OF EXTRATERRESTRIAL RESOURCES AND PROPELLANT PRODUCTION - WATER AND OXYGEN RECOVERY
N64-29889 21-10

WATER RECOVERY FROM SEA WATER AND FROM HUMAN URINE
REPT.-3 N64-30696 22-16

THERMAL VACUUM TEST OF ORBITAL STATIC MOISTURE-REMOVAL FUEL CELL
APL-TDR-64-72 N64-30921 22-06

CLOSED ECOLOGICAL SYSTEMS FOR WATER RECOVERY & WASTE UTILIZATION DURING MANNED SPACE FLIGHT
R63SD83 N64-33604 24-16

WATER TUNNEL
FLOW VISUALIZATION MEASUREMENTS MADE ON CONES IN WATER TUNNEL
LR-385 N64-14067 05-11

VENTILATION STATE AND CAVITY FORMATION BEHIND SURFACE-PIERCING ROD IN FREE SURFACE WATER TUNNEL AND TOWING TANK
E-110.1 N64-18582 11-11

WATER TUNNEL OBSERVATIONS ON PLANO-CONVEX HYDROFOIL FLOW UNDER NONCAVITATING AND CAVITATING CONDITIONS
E-79-6 N64-20567 13-02

WATER TUNNEL PERFORMANCE OF SUPERCAVITATING PROPELLER
DTMB-1432 N64-24850 17-03

WATER VAPOR
FREE OXYGEN IN EARTH ATMOSPHERE RESULTING FROM PHOTODISSOCIATION OF WATER VAPOR PRIOR TO ORGANIC LIFE
NASA-TT-F-86 N64-10522 01-12

EFFECT OF WATER & WATER VAPOR IN STABLE CRACK EXTENSION AND DELAYED FRACTURE IN HIGH STRENGTH STEEL
NRL-TR-240 N64-12077 03-18

HYDROGEN AND NITROGEN EFFECT ON CORROSION RESISTANCE OF ZIRCONIUM METAL IN WATER VAPOR
N64-13728 05-07

INTEGRATED INTENSITY AND SPECTRAL ABSORPTION COEFFICIENT OF WATER VAPOR AT TEMPERATURES TO 1000 DEG. K.
N64-15002 07-23

APPROXIMATE CALCULATIONS OF WATER VAPOR SPECTRAL ABSORPTION COEFFICIENTS AT ELEVATED TEMPERATURES
N64-15005 07-23

PERFORMANCE OF HYDROGEN AND NONCRYOGENIC GASES OF AMMONIA, LITHIUM-HYDRIDE, METHANE, ETHANE, & WATER AS ELECTROTHERMAL THRUSTOR PROPELLANTS
NASA-TN-D-2253 N64-16120 08-27

FREEZING OUT MOISTURE AND CARBON DIOXIDE IN TUBULAR HEAT EXCHANGERS
FTD-TT-63-320/1&2&4 N64-16365 08-13

WATER-CLOUD INTERPRETATION OF VENUS ATMOSPHERE MICROWAVE BRIGHTNESS DETERMINATION
RM-4060-PR N64-18788 11-29

WATER VAPOR AND ITS FLOW OVER NORTHERN HEMISPHERE DURING INTERNATIONAL GEOPHYSICAL YEAR /IGY/
AFCRL-63-928 N64-19410 12-21

RADIO-RELEASE REACTION OF WATER VAPOR WITH RADIOACTIVE CALCIUM CARBIDE FOR MEASURING SMALL AMOUNT OF WATER VAPOR IN UPPER ATMOSPHERE
ORO-591 N64-19923 12-07

SATELLITE MEASUREMENT OF HIGH ALTITUDE WATER VAPOR AND ATMOSPHERIC MOISTURE
NASA-CR-53937 N64-20004 13-12

THERMAL CONDUCTIVITIES OF WATER VAPOR, DEUTERIUM OXIDE VAPOR AND EQUIMOLAR MIXTURE OF WATER AND DEUTERIUM OXIDE
NASA-RP-176 N64-21302 14-13

SPECTRAL DISTRIBUTION OF OUTGOING LONG-WAVE RADIATION FLUXES DUE TO RADIATING WATER VAPOR, CARBON DIOXIDE OR OZONE
NASA-TT-F-210 N64-22676 15-28

SPECTROSCOPIC DETERMINATION OF WATER VAPOR CONTENT IN COLUMN OF ATMOSPHERE
NASA-TT-F-212 N64-22677 15-15

EFFECT OF DILUENT GAS ON SELF-INDUCED ISOTOPIC EXCHANGE BETWEEN TRITIUM AND WATER VAPOR
USNRDL-TR-738 N64-22923 16-07

ATMOSPHERE MODEL - WATER VAPOR, CLOUDS, & PRECIPITATION DISTRIBUTIONS
REPT.-7048-105 N64-24087 16-12

DETERMINATION OF HIGH ALTITUDE WATER VAPOR BY SATELLITE MEASUREMENT
NASA-CR-70 N64-24827 17-21

WATER VAPOR AND TRACE CONSTITUENTS IN VENUS ATMOSPHERE N64-25370 17-29

AUTOMATIC FROST POINT HYGROMETER FOR MEASUREMENT OF STRATOSPHERIC DISTRIBUTION OF WATER VAPOR
R-RD-6300 N64-25830 17-15

BIBLIOGRAPHY ON EFFECTS OF WATER VAPOR AND OTHER GASES ON REACTOR FUEL ELEMENTS
UCRL-7836 N64-25864 18-18

CENTIMETER AND MILLIMETER RADIO WAVE ABSORPTION BY ATMOSPHERIC WATER VAPOR
NASA-TT-F-8960 N64-30853 22-12

DETECTION TECHNIQUES FOR TENUOUS PLANETARY ATMOSPHERES - CHEMISORPTION DETECTORS FOR HYDROGEN AND WATER VAPOR
NASA-CR-59285 N64-33336 24-07

WATER VAPOR CONDENSATION TO SOLID STATE IN ELECTRIC FIELD IN PRESENCE OF IONS
FTD-TT-64-548/1&2 N64-33941 24-23

WATER VEHICLE
PHYSICAL AND MECHANICAL DESCRIPTION OF SHALLOW-DRAFT PLASTIC WATERCRAFT
JPRS-23786 N64-17348 09-19

HIGH SPEED BASIN AND INSTRUMENTATION SYSTEMS FOR TESTING TORPEDOES, HYDROFOILS, PLANING BOATS, PUMPJETS, PROPELLERS, AND OTHER HIGH SPEED VEHICLES
DTMB-1660 N64-22903 16-10

WAVE
SA ELECTROMAGNETIC WAVE
SA HYDROMAGNETIC WAVE
SA MICROWAVE
SA RADIO WAVE
AUTOMATED SPIN-WAVE INSTABILITY THRESHOLD MEASUREMENT AND RECORDING
AFCRL-63-505 N64-12287 03-23

VIBRATION STUDY OF HEATED STRUCTURE BY TRANSIENT EXCITATION AND WAVE ANALYSIS
NAEC-ASL-1068 N64-15568 07-33

LINEAR DEPENDENCE OF MIDSHIP BENDING MOMENT ON WAVE HEIGHT - EXPERIMENTS WITH VARIED SHIP-TYPE MODELS
SSC-157 N64-15824 07-04

RELATION OF COMPLEX GUIDED WAVES TO RADIATION PATTERNS
AFCRL-62-523 N64-17365 09-23

SPIN-WAVE ANISOTROPY IN PARALLEL PUMPING EXPERIMENTS AT X-BAND FREQUENCIES - SINGLE CRYSTAL YTTRIUM-IRON GARNET
AFCRL-64-14 N64-19124 11-25

DATA ACQUISITION AND ANALYSIS OF WAVE INDUCED ACCELERATIONS ON DRY CARGO OCEAN VESSELS
SSC-159 N64-19734 12-10

GROWING SCREW-SHAPED WAVES OF ELECTRON-HOLE DENSITY IN SEMICONDUCTOR BAR SUBJECTED TO PARALLEL ELECTRIC AND MAGNETIC FIELDS
ESD-TDR-63-587 N64-21397 14-24

NORMAL SPIN-WAVE MODES OF COMPLEX EXCHANGE-COUPLED CRYSTAL STRUCTURES
NRL-6031 N64-21443 14-25

SPIN-WAVE INSTABILITIES IN PERMALLOY FILMS OF VARYING THICKNESS
AFCRL-64-101 N64-21449 14-23

FIELD STRENGTH METER FOR VERY LOW FREQUENCY WAVES
AFCRL-64-479 N64-28553 20-15

SMALL AMPLITUDE, LONG WATER WAVE THEORY DEVELOPED BY EXPANSION
ONR-TR-16 N64-30614 22-11

OPERATION PRINCIPLES AND ADVANTAGES OF L-BAND FORWARD-WAVE AMPLIFIER OF PULSED TYPE RADIO FREQUENCY
PT-470 N64-31892 23-09

MOTION CHARACTERISTICS OF STABLE PLATFORM IN SEA WAVES
DTMB-1855 N64-32549 23-10

CRITICAL SPEEDS OF SOLITARY WAVES IN COMPRESSIBLE FLUID
IMM-NYU-325 N64-33297 24-11

SPIN-WAVE CALCULATIONS OF SPIN-FLOP PHASE IN UNIAXIAL ANTIFERROMAGNET
AD-435887 N64-33658 24-25

WAVE ATTENUATION
ROCK AND SOIL WAVE ATTENUATION RESPONSE TO DYNAMIC LOADING BY NUCLEAR EXPLOSIONS N64-12414 04-23

ATTENUATION FLOW OF SHOCK WAVE IN CHANNELS N64-12418 04-02

IMPORTANCE OF REENTRY VEHICLE PARAMETERS TO RADIO FREQUENCY ATTENUATION
TDR-269/4810-30/-1 N64-12600 04-09

MEASUREMENTS OF SEISMIC WAVE ATTENUATION THROUGH SEDIMENTARY ROCK - EARTHQUAKES
JPRS-23128 N64-14711 06-12

PROPAGATION AND ATTENUATION OF ACOUSTIC WAVES IN LUNAR SURFACE
NASA-CR-55413 N64-15896 07-29

ATTENUATION OF TRAVELING WAVES IN SEMI-INFINITE COMPOSITE BAR
AD-431282 N64-22046 15-33

ULTRASONIC MODEL STUDY OF ATTENUATION OF SEISMIC WAVES IN SOLIDS - ELASTIC WAVES
ARDD-1740-11 N64-23968 16-23

WAVE DETECTION
SENSING PLASTIC STRAIN WAVES WITH FRACTURING WIRES
SSD-TDR-63-250 N64-12706 04-15

MILLIMETER AND SUBMILLIMETER WAVELENGTH DETECTOR INSTRUMENTS - SUBMILLIMETER RADIOMETER AND CARBON BOLOMETER
NASA-CR-53871 N64-19958 12-08

EXCITATION & DETECTION TECHNIQUES FOR MOLECULAR MILLIMETER WAVE TRANSITIONS
OR-3821 N64-21795 15-25

WAVE DIFFRACTION
PHASE DISTORTION OF REFLECTED SINE WAVE ACOUSTIC PULSES IN FLUID MEDIA AT GRAZING ANGLES
RN-152 N64-10071 01-23

DIFFRACTION OF PLANE SOUND WAVES BY ACOUSTICALLY PENETRABLE OBLATE SPHEROID
USCEC-82-213 N64-11449 03-23

SURFACE WAVE DIFFRACTION BY SYMMETRIC CRUSTAL DISCONTINUITIES - SEISMOLOGY
AFCRL-63-719 N64-13836 05-12

SINGULAR INTEGRALS IN WAVE DIFFRACTION PROBLEMS WITH SOLUTION OF PROBLEM OF SCATTERING BY DIELECTRIC WEDGE
NRC-440 N64-16621 08-23

DIFFRACTION OF HIGH FREQUENCY PLANE ELECTROMAGNETIC WAVE BY CONDUCTING CIRCULAR DISC
EM-189 N64-23337 16-23

DIFFRACTION OF ELECTROMAGNETIC WAVES BY CIRCULAR APERTURE IN INFINITELY CONDUCTING PLANE SCREEN
EM-195 N64-26695 18-08

PHENOMENOLOGICAL THEORY OF MULTI-MODE SURFACE WAVE EXCITATION PROPAGATION, AND DIFFRACTION - PLANE STRUCTURES
EM-198 N64-26881 18-08

RADIO WAVE DIFFRACTION AND PROPAGATION
JPRS-26487 N64-32226 23-08

DIGITAL COMPUTER METHOD FOR INVESTIGATING LIGHT DIFFRACTION BY ULTRASONIC WAVES
REPT.-6-74-64-35 N64-32307 23-23

WAVE DIFFRACTION PATTERN OF DIELECTRIC RADOME
REPT.-1180-13 N64-33547 24-08

WAVE EQUATION
ORTHOGONAL FUNCTION AND WAVE EQUATION OF INVERSE SCATTERING PROBLEM IN QUANTUM MECHANICS
ARL-63-217 N64-12353 03-20

INTEGRATION OF FIRST-ORDER PERTURBED WAVE EQUATION FOR EXCITED STATES OF ONE-DIMENSIONAL SYSTEMS
NASA-CR-52965 N64-14897 06-20

TWO-DIMENSIONAL GREEN FUNCTION FOR SCALAR WAVE EQUATION OF PARALLEL-WALL WAVEGUIDE
NASA-CR-55653 N64-15542 07-20

ASYMPTOTIC EXPANSION OF SOLUTION OF WAVE EQUATION
NRC-442 N64-17624 09-20

WAVE FRONTS IN LINEAR AND NONLINEAR MEDIA USING WAVE EQUATIONS
UU-12 N64-17960 10-23

REFLECTION OF HARMONIC FUNCTIONS & SOLUTIONS OF THIN WAVE EQUATION ACROSS DIFFERENTIAL BOUNDARY CONDITIONS
AD-431974 N64-21547 15-08

THEORY OF SCATTERING OF EXCITATIONS IN SOLIDS, SOLID STATE ANALOG OF USUAL PARTIAL WAVE EXPANSION OF SCATTERING AMPLITUDE, AND APPLICABILITY OF THEORY TO PHONONS, SPIN WAVES, AND ELECTRONS
TR-2 N64-29554 21-25

MODE STRUCTURE OF LASER AND VECTOR WAVE EQUATION FOR ROTATIONAL FIELDS IN SPHERICAL MIRROR RESONATORS
AFOSR-64-1311 N64-29837 21-23

ANALYSIS OF PI PLUS PROTON ELASTIC SCATTERING USING PARTIAL WAVE EQUATION
SLAC-PUB-28 N64-32412 23-23

WAVE EQUATION & GREEN FUNCTION FOR ELECTRIC FIELD IN MOVING MEDIUM - PHASE VELOCITY OF DIPOLE
NASA-CR-59185 N64-33163 24-23

WAVE EXCITATION
EXCITATION OF HIGHER ORDER MODES BY STEP DISCONTINUITY IN CIRCULAR WAVEGUIDES
NASA-CR-53062 N64-15786 07-09

DEPENDENCE OF AMPLITUDE OF SEISMIC WAVES ON WEIGHT OF CHARGE - ELASTIC WAVE EXCITATION
FTD-MT-63-36/162 N64-18751 11-12

EXCITATION & DETECTION TECHNIQUES FOR MOLECULAR MILLIMETER WAVE TRANSITIONS
OR-3821 N64-21795 15-25

EXCITATION OF BACKWARD WAVE MODES IN PLASMA WAVEGUIDE N64-24669 17-24

PHENOMENOLOGICAL THEORY OF MULTI-MODE SURFACE WAVE EXCITATION PROPAGATION, AND DIFFRACTION - PLANE STRUCTURES
EM-198 N64-26881 18-08

EXCITATION OF SURFACE ELECTROMAGNETIC WAVES BY DISCRETELY DISTRIBUTED NONPROJECTING SOURCE N64-31357 23-09

WAVE FRONT DEFORMATION
EFFECT OF ATMOSPHERIC TURBULENCE ON LASER COMMUNICATIONS SYSTEM, OPTICAL WAVE FRONT DISTORTION, ANGULAR SCINTILLATION, AND PHASE AND AMPLITUDE CORRELATION FUNCTIONS
SID-64-1894-2 N64-32736 24-08

RELATIONSHIP BETWEEN RANDOM OPTICAL WAVE FRONT DISTORTION AND OPTICAL SYSTEM PERFORMANCE
TN-89 N64-32758 24-08

EFFECT OF WAVE FRONT DISTORTION ON OPTICAL HETERODYNE DETECTION SYSTEM
TM-118 N64-32759 24-08

GEOMETRIC INTERPRETATION OF WAVE FRONT DEFORMATION
TM-119 N64-32760 24-08

EVALUATION OF PHASE AND AMPLITUDE CORRELATION FUNCTIONS FOR ATMOSPHERICALLY DISTORTED WAVE FRONT
TM-127 N64-32763 24-08

ANGULAR SCINTILLATION CORRELATION FUNCTION OF DISTORTED WAVE FRONT
TM-131 N64-32764 24-08

ANGULAR RESOLUTION BY WAVE FRONT APPROXIMATION METHOD
TM-132 N64-32765 24-08

WAVE FRONT RECONSTRUCTION
WAVEFRONTS & BOUNDARY WAVES - ELEMENTARY SOLUTION OF HYPERBOLIC PARTIAL DIFFERENTIAL EQUATION
MRC-434 N64-16835 08-20

WAVE FUNCTION
HELIUM ATOM WAVE FUNCTION EXPANSIONS IN LEGENDRE FUNCTIONS
NASA-CR-52696 N64-11231 02-23

INSULATING STATE THEORY FOR FREE METAL PARTICLE ELECTRON WAVE FUNCTION
AD-419913 N64-11455 03-23

GENERAL EXPRESSION FOR EXPANSION COEFFICIENTS CONNECTING STARK AND FIELD-FREE WAVE FUNCTIONS FOR HYDROGEN
UCRL-7493 N64-11581 03-23

SCATTERING FACTORS FROM HARTREE SELF-CONSISTENT-FIELD WAVE FUNCTIONS FOR ELEMENTS AND IONS
LA-2987 N64-11985 03-23

ANALYSIS OF WAVE FUNCTION FORMULA FOR IMPENETRABLE POINT PARTICLES FOLLOWING BOSE-EINSTEIN STATISTICS FOR MOMENTUM DISTRIBUTION IN INFINITE SYSTEM
MATT-223 N64-13225 04-23

OPACITY CALCULATION OF ENERGY LEVELS, WAVE FUNCTIONS, ELECTRONIC OCCUPATION, TRANSITIONS, AND MOLECULAR SCATTERING
LAMS-3002 N64-14056 05-23

SOMMERFELDS COMPLEX ORDER WAVE FUNCTIONS TO SOLVE PROBLEM OF RADIATION FROM DIELECTRIC CONE
AFCRL-63-47 N64-15810 07-23

WAVE FUNCTION CALCULATION OF ENERGY STATES OF THREE ELECTRON SYSTEMS FOR ISOTOPE SHIFT, DIPOLE POLARIZABILITY, AND HYPERFINE SPLITTING STUDIES
N64-17011 09-23

ANALYTIC PROPERTIES OF SOLUTIONS OF SCHROEDINGER EQUATION AS FUNCTION OF WAVE NUMBER - ONE-DIMENSIONAL BLOCH FUNCTION
ARL-64-38 N64-17619 09-20

ELECTRON SPIN PROPERTIES OF PAIR-CORRELATED ATOMIC AND MOLECULAR SINGLET WAVE FUNCTIONS USING HARTREE-FOCK CALCULATION
NASA-CR-53565 N64-18426 10-23

PERIODIC FUNCTION SOLUTIONS OF ONE-DEGREE-OF-FREEDOM OSCILLATORS - DIFFERENTIAL EQUATIONS AND WAVE FUNCTIONS
ARGO-4105-6 N64-18881 11-20

SCATTERING FACTORS FOR ATOMS AND IONS COMPUTED FROM DIRAC-SLATER WAVE FUNCTIONS
LA-3056 N64-19281 11-23

HARTREE-FOCK WAVE FUNCTIONS IN CALCULATIONS OF FINE STRUCTURE SEPARATIONS IN ATOMIC SYSTEMS
AFCRL-64-112 N64-19634 12-23

ENERGIES AND WAVE FUNCTIONS OF NITROGEN OXIDE FREE RADICAL AND MOLECULAR STRUCTURES
AFCRL-64-123 N64-20162 13-23

WAVE FUNCTION OF DIATOMIC MOLECULES EXPANDED IN SERIES OF ORBITAL ANGULAR MOMENTUM EIGENFUNCTIONS
NASA-TM-X-51666 N64-20589 13-23

NATURAL SPIN ORBITALS AND EXPANSION COEFFICIENTS FOR MANY-BODY WAVE FUNCTIONS
AD-600166 N64-20844 14-23

COMPUTATION OF WAVE FUNCTION MATRIX ELEMENTS IN QUANTUM MECHANICS
RM-3826-PR/AEC N64-21160 14-23

STRUCTURE OF FERMION DENSITY MATRICES - WAVE FUNCTIONS OF BARDEEN-COOPER-SCHIEFFER TYPE & SUPERCONDUCTIVITY
TN-103 N64-24757 17-23

FINAL STATE WAVE FUNCTIONS OF DEUTERON PLUS NEUTRON OR DINEUTRON PLUS PROTON IN NUCLEAR REACTION
RR-TR-64-4 N64-25217 17-23

REGULAR AND LOGARITHMIC COULOMB WAVE FUNCTIONS, AND ARGUMENT OF GAMMA FUNCTION
REPT.-1565-4 N64-26533 18-23

QUANTUM MECHANICS - CALCULATIONS OF WAVE FUNCTIONS AND ELECTRON TRANSITION PROBABILITIES
RTD-TDR-63-3118 N64-26567 18-23

APPLICATION OF MOLECULAR ORBITALS TO MULTI-ATOMIC SYSTEMS - ELECTRONIC WAVE FUNCTIONS FOR DIATOMIC BERYLLIUM AND CARBON
AD-435425 N64-27293 19-23

IMPROVEMENT IN ELECTRONIC WAVE FUNCTION FOR DIATOMIC CARBON BY CONFIGURATION INTERACTION
N64-27296 19-23

CONFIGURATION INTERACTION IN CARBON ATOM - ONE-ELECTRON WAVE FUNCTIONS COMPUTED BY METHOD OF SELF-CONSISTENT FIELD WITHOUT EXCHANGE
T-R-404 N64-27798 19-23

WAVE FUNCTION & PHASE SHIFT IN RADIAL SCHROEDINGER EQUATION FOR HIGHLY SINGULAR REPULSIVE POTENTIALS
UR-875-51 N64-28273 20-23

ONE-CENTER SELF-CONSISTENT FIELD MOLECULAR ORBITAL WAVE FUNCTIONS FOR GROUND STATES OF HYDROGEN FLUORIDE, METHANE, AND SILANE N64-30315 22-23

ONE-CENTER SELF-CONSISTENT FIELD MOLECULAR ORBITAL WAVE FUNCTIONS FOR GROUND STATES OF AMMONIA, AMMONIUM ION, PHOSPHINE, AND PHOSPHONIUM ION
N64-30316 22-23

ONE-CENTER SELF-CONSISTENT FIELD MOLECULAR ORBITAL WAVE FUNCTIONS FOR GROUND STATES OF WATER, HYDROGEN SULFIDE, AND HYDROGEN CHLORIDE MOLECULES
N64-30317 22-23

PARISER-PARR-POPLE METHOD OF COMPUTING MOLECULAR ELECTRONIC WAVE FUNCTIONS
ARL-64-203 N64-32667 23-07

WAVE GENERATION
ATMOSPHERIC PRESSURE WAVE GENERATED BY NUCLEAR EXPLOSION
REPT.-5033-1-T N64-24201 16-23

MICROWAVE GENERATION BY ELECTRON BEAM INTERACTION WITH ANISOTROPIC MEDIA
REPT.-2 N64-25693 17-24

EXCITATION OF NONLINEAR CURRENTS AND GENERATION OF HARMONIC WAVES IN ISOTROPIC PLASMA
AF-249815 N64-26247 18-24

MILLIMETER WAVE GENERATION BY PLASMA
AD-422362 N64-33242 24-24

WAVE INTERACTION
INTERACTION OF WAVES IN WAVEGUIDE SYSTEMS WITH LONG ELECTRON FLOWS
JPRS-19051 N64-10813 02-09

CYCLOTRON WAVE INTERACTIONS WITH ELECTRON STREAMS AND PLASMAS WITH FINITE CROSS SECTION IN FINITE MAGNETIC FIELD

REPT.-63-14 N64-14775 06-24

COLLISION FREQUENCY VALUES OBTAINED FROM RADIO-WAVE INTERACTION IN ALASKA
UAGR-148 N64-19672 12-08

PHASE AND AMPLITUDE WAVE INTERACTION OF SIGNALS REFLECTED FROM LOWER IONOSPHERE
AFCRL-64-32 N64-20296 13-12

INTERACTION OF FREE-SURFACE WAVES ON LIQUID METALS WITH TRANSVERSE MAGNETIC FIELDS
NASA-TR-R-161 N64-21256 14-11

INTERACTION OF ELECTROMAGNETIC WAVES IN PLASMA
AROD-3420-8 N64-24203 16-24

COMPARISON OF METHODS FOR CONVERSION OF WAVE INTERACTION DATA TO ELECTRON DENSITY PROFILE
SR-220 N64-25779 17-23

INTERACTION OF ELECTROMAGNETIC WAVES AND CLASSICAL PLASMAS
R-5-64-1 N64-26876 18-24

THEORY OF WAVE INTERACTION IN PLASMA
N64-27158 19-24

DISPERSION EQUATION FOR PLANAR MODEL OF TRANSVERSE WAVE INTERACTIONS IN M-TUBE - ELECTRON TUBE
N64-27162 19-09

RESONANT INTERACTION OF VERTICALLY POLARIZED PLANE ELECTROMAGNETIC WAVES WITH THIN PLASMA SLABS
NASA-TN-D-2476 N64-29452 21-24

PHASE AND AMPLITUDE MEASUREMENTS OF RADIO WAVE INTERACTION
AFCRL-64-451 N64-29836 21-12

INTERACTION OF ELECTROMAGNETIC WAVES WITH CLASSICAL PLASMA
R-4-64-2 N64-30158 21-24

PARTICLE FLUX-WAVE INTERACTION IN UPPER IONOSPHERE
SU-SEL-64-063 N64-33554 24-12

MICROWAVE DETECTOR FOR WAVE-PLASMA INTERACTION
R-8-63-2 N64-33657 24-24

WAVE MOTION
NATURE, WAVE MOTION, APPEARANCE, PROBLEMS, AND METHODS OF STUDYING NOCTILUCENT CLOUDS
NASA-TT-F-84 N64-10059 01-21

WAVE MOVEMENTS AND METEOROLOGICAL CONDITIONS IN REGARD TO APPEARANCE OF NOCTILUCENT CLOUDS
N64-10061 01-21

DISTORTED WAVE ANALYSIS OF BORON 22-CARBON 12 DEUTRON AND NEUTRON REACTION - ANGULAR DISTRIBUTION N64-18163 10-23

COMPRESSION WAVE MOTION IN COLLISIONLESS PLASMA - ADIABATIC STATE
MF-36 N64-19299 12-24

PLASMA PHYSICS - SIMPLIFIED METHOD FOR STUDYING WAVE DISTURBANCES IN PARTIALLY-IONIZED GASES
AMP-136 N64-20455 13-24

INTEGRAL EQUATION TRANSFORM ANALYSIS OF ONE-DIMENSIONAL WAVE MOTIONS IN POINT LATTICES
AD-439609 N64-20906 14-25

WAVE MOTION IN PLASMA BASED ON FOKKER-PLANCK EQUATION
NYO-9371 N64-21846 15-25

WAVE ACTIVITY & INTERACTION OF ATMOSPHERIC LAYERS
N64-24452 17-21

COORDINATES OF ROTATING FLUID WAVE MOTIONS WITH FIXED ISOTHERMAL SURFACES N64-24681 17-13

EXTREMELY LOW FREQUENCY WAVE MOTION STUDIES
F-2023-1 N64-27542 19-24

CONTINUOUS RECORDING INSTRUMENT FOR WAVE PATTERNS ON WIND-AGITATED WATER SURFACE
AECL-2051 N64-32660 23-15

WAVE OSCILLATOR
FREQUENCY TRACKING SQUARE WAVE OSCILLATOR FOR SATURN LAUNCH VEHICLES
NASA-TR-R-208 N64-30612 22-09

WAVE PROPAGATION
PROPAGATION OF HYDROMAGNETIC WAVES IN A COLLISIONLESS PLASMA
IPPJ-11 N64-11248 02-24

PROPAGATION OF ELECTROSTATIC ION WAVES PERPENDICULAR TO DENSITY GRADIENT IN IONIZED PLASMA IN MAGNETIC FIELD
MATT-227 N64-11586 03-24

PROPAGATION OF ELECTROACOUSTIC WAVES IN DENSE DEGENERATE PLASMA
AFCRL-63-899 N64-12019 03-24

HYDROMAGNETIC WAVE TUBE - ENERGY COUPLING, WAVE PROPAGATION, AND CROSS MODULATION BETWEEN ELECTROMAGNETIC AND HYDROMAGNETIC WAVES
AFCRL-63-779 N64-12043 03-24

TRANSMISSION METHODS, POWER SOURCES, AND SIGNAL DETECTION IN MILLIMETER WAVELENGTH
RE-TR-63-30 N64-12367 03-15

SEISMIC MODEL IMPACTER FOR PHOTOELASTIC STUDIES OF PROPAGATING WAVES
AFCRL-63-790 N64-12858 04-15

HYDROMAGNETIC WAVE PROPAGATION IN PLASMA
UCRL-10990 N64-13215 04-24

MECHANICAL PROPERTIES OF SOLIDS, WAVE PROPAGATION & STRUCTURAL RESPONSE, HYPERVELOCITY IMPACT, AND FRACTURE
ASD-TDR-63-140 N64-13431 05-01

WAVE PROPAGATION - WAVE SOURCES, EFFECTS ON SOLID STRUCTURE, AND PRESSURE EFFECTS
N64-13436 05-23

WAVE PROPAGATION IN UNIAXIAL STRAIN - BEHAVIOR OF MATERIALS UNDER HIGH IMPULSE LOADING
N64-13437 05-25

PROPAGATION OF WAVES OF PLASTIC DEFORMATION IN RODS UNDERGOING FREE FLIGHT IMPACT WITH DIFFRACTION GRATING STRAIN GAGES
N64-13438 05-25

PLASTIC WAVE PROPAGATION - DISLOCATION CONCEPTS OF STRAIN RATE EFFECTS N64-13439 05-25

TROPOSPHERIC RADIO WAVE PROPAGATION
AFCRL-63-713 N64-13664 05-08

PROPAGATION OF H-WAVES ON ANISOTROPIC DIELECTRIC SLAB
AFCRL-62-776 N64-13775 05-23

PLASMA-LIKE PROPERTIES OF CHARGE CARRIERS IN SOLID-STATE MATERIALS - ELECTROMAGNETIC WAVE PROPAGATION
RADC-TDR-63-493 N64-13787 05-24

SCATTERING MATRIX TECHNIQUE FOR SOLVING SOME ELECTROMAGNETIC AND ACOUSTIC WAVE PROPAGATION BOUNDARY VALUE PROBLEMS
TR-72 N64-13966 05-20

INFLUENCE OF ORBITAL MOTION OF EARTH ON DISTANCE AND VELOCITY DETERMINATION OF COSMIC OBJECTS BY RADIO WAVE PROPAGATION
NH-TRANS-456 N64-14717 06-05

SPREADING OF SPHERICAL AND CYLINDRICAL WAVES
DVL-280 N64-15027 07-11

CARCINOTRON TUBE MEASUREMENTS - GENERATION OF INFRAMILLIMETRIC WAVES WITH ELECTRON BEAMS
RADC-TDR-64-45 N64-15060 07-09

HYDROMAGNETIC WAVE PROPAGATION IN ATMOSPHERE OF

ARBITRARY ELECTRIC CONDUCTIVITY
N64-15119 07-23

ELECTROMAGNETIC WAVE INTERACTION WITH AND TRANSMISSION THROUGH INHOMOGENEOUS ONE-DIMENSIONAL PLASMA
NASA-RP-127 N64-15311 07-23

PROPAGATION CHARACTERISTICS FOR AIR-GROUND WAVES IN 800-MC/S RANGE - EFFECT OF FLIGHT PATTERN
ESD-TDR-63-422 N64-15701 07-08

PROPAGATION OF ULTRASONIC ELASTIC WAVES IN SOLID BODIES AND IN GRANULAR MEDIA
AFCRL-63-932 N64-15723 07-23

STRESS-WAVE PROPAGATION IN ALUMINUM
BALLISTICS RES. REPT.-107 N64-15820 07-33

PROPAGATION AND ATTENUATION OF ACOUSTIC WAVES IN LUNAR SURFACE
NASA-CR-55413 N64-15896 07-29

IONOSPHERE AND LABORATORY GENERATED PLASMA WAVE PROPAGATION - MAGNETOHYDRODYNAMICS
AFCRL-63-782, VOL. 2 N64-16064 07-24

PROPAGATION OF ELASTIC-PLASTIC WAVES IN ROD OF FINITE LENGTH
FTD-TT-63-506/1&2 N64-16373 08-23

SHOCK WAVE AMPLIFICATION DURING PASSAGE THROUGH FLAME FRONT
FTD-TT-63-532/1&2 N64-16375 08-26

EFFECTS OF NON-GRAY RADIATION ON WAVE PROPAGATION IN SIMPLE DISSOCIATING GAS
SSD-TDR-63-355 N64-16445 08-24

DENSITY FLUCTUATIONS IN OHMICALLY HEATED PLASMA OF STELLARATOR RESOLVED INTO AZIMUTHALLY-PROPAGATING WAVES
MATT-224 N64-16935 09-24

WAVE PROPAGATION PROBLEMS AND SPACE COMMUNICATIONS
N64-17197 09-20

WAVE PROPAGATION AND RESONANCE IN PLASMAS IMMERSED IN MAGNETIC FIELDS
NASA-CR-53229 N64-17352 09-24

ANALYSIS OF WAVES IN BOUNDED, MAGNETIZED PLASMA - WAVE PROPAGATION
N64-17353 09-24

WAVE FRONTS IN LINEAR AND NONLINEAR MEDIA USING WAVE EQUATIONS
UU-12 N64-17960 10-23

ULTRASONIC WAVE PROPAGATION AND INTERACTION IN SOLID MATERIALS
ML-TDR-64-21, PT. 1 N64-18048 10-23

FIELD STRENGTHS OF MAGNETIC DIPOLES IN CONDUCTING EARTH & PROPAGATION OF VERY LOW FREQUENCY WAVES IN SOLIDS AND LIQUIDS
AFCRL-64-144 N64-18586 11-12

MATHEMATICS OF WAVE PROPAGATION IN VARIABLE MEDIA
AFCRL-64-28 N64-18601 11-24

TRAVELING WAVE PROPAGATION GUIDED ALONG RADIATION FIELD OF OPEN AND CLOSED RADIATING STRUCTURES
PIBMRI-1008-62 N64-18880 11-23

VLF WAVE PROPAGATION IN HIGHLY CONDUCTING MEDIUM
AFCRL-64-145 N64-18903 11-23

ELECTROMAGNETIC WAVE PROPAGATION IN COLD, COLLISIONLESS ATOMIC HYDROGEN PLASMA
NASA-TN-D-2071 N64-18954 11-24

RADAR PHOTOGRAPHS OF GROUND CLUSTER PATTERNS FOR REFRACTIVITY PROFILES
SCI. REPT.-63-327 N64-18998 11-08

RADIATION EFFECT ON ELECTROMAGNETIC WAVE PROPAGATION IN AIR
R-173-1 N64-19188 11-15

ELECTROMAGNETIC WAVE PROPAGATION IN HETEROGENEOUS MEDIUM - RANDOM DISTRIBUTION
NASA-CR-53926 N64-19942 12-08

CHARACTERISTICS OF EXTREMELY LOW FREQUENCY ELECTROMAGNETIC WAVE PROPAGATION BY MEASURING CONTINUOUS WAVE SIGNALS
AFCRL-64-164 N64-20095 13-12

NUMERICAL COMPUTATIONS FOR SEARCH OF LONG RANGE RAYS INVOLVING CONVENTIONAL PROPAGATION MODES
N64-20313 13-08

WAVE PROPAGATION PERPENDICULAR TO MAGNETIC FIELD IN IONIZED GAS - HYDROMAGNETIC WAVE GENERATION
US-36 N64-20387 13-24

WAVE DISPERSION IN COLD MAGNETOPLASMA FROM HYDRODYNAMIC TO WHISTLER FREQUENCIES
N64-20433 13-24

TRANSVERSE WAVE PROPAGATION IN PLASMA
N64-20759 14-24

PROPAGATION OF WHISTLERS N64-20765 14-12

WAVE PROPAGATION AND RADIO FREQUENCY MODULATION BY COAXIAL GLOW DISCHARGE AND PLASMA CYCLOTRON RESONANCE ISOLATOR
REPT.-4915-1-F N64-21087 14-24

CORRELATION FUNCTION OF LOGARITHMIC AMPLITUDE FLUCTUATION AT TWO RECEIVERS FOR ARBITRARY TURBULENCE ALONG WAVE PROPAGATION PATH
TR-1209 N64-21099 14-23

CORRESPONDENCE PRINCIPLE FOR LINEARIZED THEORY OF WAVE PROPAGATION THROUGH ANISOTROPIC AND INHOMOGENEOUS VISCOELASTIC SOLIDS
TR-25 N64-21183 14-23

PROPAGATION OF FINITE AMPLITUDE ELECTROMAGNETIC WAVES IN GYROMAGNETIC MEDIA
ML-1020 N64-21301 14-08

CONTINUOUS WAVE PROPAGATION EXPERIMENT FOR IONOSPHERIC MEASUREMENTS USING SMALL SOUNDING ROCKETS
NASA-TN-D-2323 N64-21427 14-12

ELECTROMAGNETIC WAVE PROPAGATION IN STRATIFIED INFINITE MEDIUM
PIBMRI-1184-63 N64-21451 14-08

COMPUTER PROGRAM FOR CALCULATION OF NONLINEAR VISCOELASTIC WAVE PROPAGATION IN SOILS
BRL-1237 N64-21500 15-20

WAVE PROPAGATION AND DIFFRACTION PHENOMENA IN VARIOUS MEDIA AND NETWORK SYNTHESIS
PIBMRI-1112-63 N64-21503 15-25

WAVE PROPAGATION IN ELASTIC MATERIALS AND STATISTICAL ANALYSIS OF ELASTO-DYNAMIC PROBLEM
AFOSR-64-0144 N64-22047 15-33

RADIO WAVE PROPAGATION
FTD-TT-62-582/1&2 N64-22387 15-08

PROPAGATION OF ELECTROMAGNETIC WAVES IN RECTANGULAR GUIDES LOADED WITH MAGNETIZED FERRITE
AFCRL-64-354 N64-22685 15-09

MACROSCOPIC EQUATIONS FOR SMALL SIGNAL ELECTROMAGNETIC WAVE PROPAGATION IN ISOTROPIC PLASMA
REPT.-1565-2 N64-22902 16-24

SURFACE WAVE PROPAGATION ALONG FERRITE ROD
AFCRL-63-569 N64-23143 16-23

UNDERGROUND EXPLOSION WAVES
FTD-TT-63-724/1&2&4 N64-23580 16-12

GEOMAGNETIC PARAMETERS AND FREQUENCY-HEIGHT CURVES IN IONOSPHERE - RADIO WAVE PROPAGATION
N64-23849 16-12

MICROWAVE REGION ACOUSTIC WAVE AMPLIFICATION IN

PIEZOELECTRIC SEMICONDUCTORS
ML-1148 N64-24224 16-25

PROPAGATING BACKWARD WAVE MODES IN PLASMA WAVEGUIDES
N64-24671 17-08

INFORMATION CAPACITY AND QUANTUM EFFECTS IN ELECTROMAGNETIC WAVE PROPAGATION CIRCUITS
ESD-TDR-64-23 N64-24811 17-08

ELECTROMAGNETIC COMPATIBILITY AND LINEAR ELECTRON BEAM PROPAGATIONS
RADC-TDR-64-140, VOL. III N64-24837 17-09

PERIODIC INTERACTIONS OF SPACE CHARGE WAVE PROPAGATION ALONG ELECTRON BEAM
N64-24839 17-09

PROPAGATION OF PLANE WAVES IN LOSSY MOVING MEDIUM
N64-24919 17-08

METEOROLOGICAL INSTRUMENTATION, WEATHER AND CLOUD PHYSICS, AND RADAR WAVE PROPAGATION STUDIES
AFCRL-64-25 N64-25405 17-23

ELECTRONIC DIGITAL COMPUTERS FOR CALCULATION OF ACOUSTIC-GRAVITY WAVE PROPAGATION IN EARTH ATMOSPHERE
N64-25956 18-05

UNSTEADY SHOCK WAVE PROPAGATION IN RELAXING GAS
N64-26128 18-11

INFLUENCE OF RADIANT ENERGY TRANSFER ON ONE DIMENSIONAL SHOCK WAVE PROPAGATION
N64-26336 18-13

VERIFICATION OF HOT PLASMA THEORY FOR MICROWAVE PROPAGATION AT SECOND HARMONIC ELECTRON CYCLOTRON RESONANCE
MATT-265 N64-26540 18-24

PHENOMENOLOGICAL THEORY OF MULTI-MODE SURFACE WAVE EXCITATION PROPAGATION, AND DIFFRACTION - PLANE STRUCTURES
EM-198 N64-26881 18-08

THIN WALL TUBING TESTS USING ULTRASONIC SHEAR WAVES - THEORY OF ULTRASONIC WAVE PROPAGATION, EXPERIMENTAL DATA, AND NOTCH FABRICATION
HW-81956 N64-27142 19-17

WAVE PROPAGATION IN NONUNIFORM WAVEGUIDES WITH IMPEDANCE WALLS
AD-440499 N64-27144 19-08

DYNAMIC NONLINEAR WAVE PROPAGATION IN IONIZED MEDIA
AFCRL-64-533 N64-27499 19-24

DYNAMIC NONLINEAR WAVE PROPAGATION IN IONIZED MEDIA - CERENKOV EFFECT IN PREOSCILLATING MEDIUM
AFCRL-64-534 N64-27500 19-23

PROPAGATION CHARACTERISTICS OF ATMOSPHERIC PRESSURE PULSES GENERATED BY NUCLEAR EXPLOSIONS
AFCRL-64-424 N64-27537 19-12

PROPAGATION OF LONGITUDINAL WAVES IN PLANE DISKS WITH CIRCULAR HOLE
E-T-G-63-30 N64-27683 19-08

MICROWAVE RESEARCH - PIEZOELECTRIC SEMICONDUCTORS, OPTICAL MASERS, MICROWAVE PROPAGATION, LIGHT WAVE DIFFRACTION, AND LASER BEAMS
ML-1192 N64-27737 19-25

PLASMA WAVE PROPAGATION IN WAVEGUIDES OR MICROWAVE CIRCUITS
N64-27999 20-24

PREDICTION OF BLAST WAVE FLOW PATTERNS - STRUCTURE AND PROPAGATION OF BLAST WAVES N64-28098 20-11

ANALYSIS OF PLASTIC WAVE PROPAGATION IN A FINITE LENGTH BAR IN HIGH VELOCITY TENSION - IMPACT LOAD
N64-28101 20-33

PROPAGATION OF SEISMIC WAVES IN SOLID SPHERE
AFCRL-64-647 N64-28237 20-12

FLUID DYNAMICS, SUPERSONIC FLOW, GAS FLOW, METALLURGY, ELASTICITY, SHOCK WAVES, STRESS, DEFORMATION, AND SPACE VEHICLE REENTRY
JPRS-26019 N64-28469 20-01

LONGITUDINAL WAVE PROPAGATION IN ELASTIC POROUS MEDIUM SATURATED WITH LIQUID N64-28475 20-11

INFRASONIC WAVE PROPAGATION IN IONOSPHERE - EXTENSION OF METHOD OF NORMAL MODES TO WAVE PROPAGATION IN ALMOST-STRATIFIED MEDIUM
AFCRL-64-526 N64-28533 20-08

GRAVITY WAVE PROPAGATION DUE TO TWO-DIMENSIONAL POINT DISTURBANCE IN SURFACE FLOW OF STRATIFIED FLUID
REPT.-97-5 N64-29318 21-11

PROPAGATION OF SURFACE WAVES ALONG INFINITE, PERFECTLY CONDUCTING PLANE SURFACE COATED WITH PLASMA LAYER AND SUBJECTED TO DC MAGNETIC FIELD
REPT.-1565-6 N64-29413 21-08

INCIDENCE OF PLANE WAVES ON INTERFACE BETWEEN VACUUM AND INHOMOGENEOUS ABSORBING MEDIUM
N64-29466 21-09

THEORETICAL STUDY OF WAVE PROPAGATION BY EXPLOSION IN SPHERICAL CAVITY IN METAL
QPR-9 N64-29561 21-33

PROPAGATION OF FORCED SOUND WAVES IN RAREFIED GAS DYNAMICS
REPT.-562/07/-59 N64-29816 21-11

PROPAGATION OF ACCELERATION WAVES IN LINEAR THEORY OF VISCOELASTICITY
TR-28 N64-29935 21-33

MAGNETIZED PLASMAS - DEVELOPMENT OF DISTURBANCES AND SHOCK FORMATION, WAVE PROPAGATION, AND RADIATION IN TOROIDAL DISCHARGES
PIBMRI-1224-64 N64-29971 21-24

CLASSIFICATION OF MEDIA IN WAVE PROPAGATION - BOUNDARY CONDITIONS FOR EVANESCENCE AND ABSOLUTE INSTABILITY
DI-82-0347 N64-30022 21-23

MODE COUPLING IN BOUNDED COLD BEAM PLASMA SYSTEMS - GUIDED WAVE PROPAGATION AND ELECTRON BEAM INTERACTION
RADC-TDR-64-189 N64-30119 21-24

TRANSMISSION OF PLANE HYDROMAGNETIC WAVES THROUGH UPPER ATMOSPHERE
REPT.-134 N64-30188 21-12

PLASMA ELECTRON DENSITIES, SCINTILLATION COUNTERS, AND WAVE PROPAGATION IN PLASMAS
FTD-MT-64-214 N64-30356 22-24

WAVE PROPAGATION MEASUREMENT TO DETERMINE ELECTRON DENSITY, COLLISION FREQUENCY, AND ELECTRON TEMPERATURE N64-30360 22-24

ELECTRONIC EQUIPMENT FOR MEASURING PULSE WAVE PROPAGATION VELOCITIES IN ARTERIES
N64-30393 22-16

STRESS WAVE PROPAGATION IN FINITE VISCOELASTIC THIN ROD
AGES-64-2 N64-30562 22-33

GEOMAGNETISM, IONOSPHERIC ABSORPTION, AURORAL RADAR ECHOS, RADIO WAVE PROPAGATION, MICROPULSATIONS & EARTH CURRENTS
AD-602884 N64-30565 22-12

THEORY OF VERY LOW FREQUENCY /EXTREMELY LONG/ WAVE PROPAGATION
JPRS-26502 N64-30620 22-08

NONLINEAR SPACE CHARGE WAVE PROPAGATION ALONG VELOCITY MODULATED, CONFINED, SOLID ELECTRON BEAM OF FINITE RADIAL EXTENSION
RADC-TDR-64-367 N64-30700 22-09

SURFACE WAVE PROPAGATION ALONG INTERFACE BETWEEN

FLUID AND ELASTIC SOLID - TRANSMISSION AND RADIATION OF SURFACE WAVE ENERGY BY WEDGE-SHAPED DISCONTINUITY
TR-5 N64-30738 22-23

BESSEL FUNCTION TABLES APPLIED TO PROBLEMS OF ANNULAR THIN PLATES AND WAVE PROPAGATION
AD-602755 N64-30824 22-20

WAVE PROPAGATION ALONG ANNULAR ELECTRON CURRENT PLASMA SHEATH
TN-2 N64-30977 22-09

QUASI-OPTICAL METHODS FOR SHAPING AND TRANSMITTING MILLIMETRIC WAVES
NASA-TT-F-9028 N64-31446 23-08

APOLLO LOGISTICS SUPPORT SYSTEMS MOBILE LABORATORY STUDIES - GROUND WAVE PROPAGATION ON LUNAR SURFACE
NASA-CR-61014 N64-31718 23-08

ATMOSPHERIC EFFECTS ON LASER PROPAGATION
SID-64-1894-1 N64-32083 23-08

ELECTROMAGNETIC WAVE PROPAGATION IN DYNAMIC SITUATIONS
AD-403887 N64-32142 23-08

RADIO WAVE DIFFRACTION AND PROPAGATION
JPRS-26487 N64-32226 23-08

GROUND WAVE PROPAGATION AND HARMONICS OF ELECTROMAGNETIC FIELD OVER EARTH SURFACE
N64-32227 23-08

SIMULATION OF TRANSIENT RADIO WAVE PROPAGATION BY APPROXIMATION METHOD N64-32229 23-08

GRENADE DETONATION ACOUSTIC WAVE PROPAGATION IN UPPER ATMOSPHERE N64-32255 23-12

INVARIANT METHOD SOLUTION TO PROBLEM OF ELECTROMAGNETIC WAVE PROPAGATION IN UNIFORM GYROTROPIC MEDIA
NASA-TT-F-8971 N64-33379 24-23

HYDROMAGNETIC WAVE PROPAGATION IN MAGNETOSPHERE
NASA-TM-X-55092 N64-33565 24-24

PROPAGATION OF ULTRASONIC STRESS WAVES IN STRUCTURAL METALS
NOTS-TP-3622 N64-33585 24-18

ALFVEN WAVE PROPAGATION IN COLLISIONLESS PLASMA WITH EXTERNAL MAGNETIC FIELD
NASA-TM-X-55083 N64-33635 24-24

ELECTROMAGNETIC WAVE PROPAGATION IN INHOMOGENEOUS MEDIUM
IA-115 N64-33931 24-11

WAVE REFLECTION
OPTIMUM CURVATURE BEAM FOR REFLECTED WAVE OF PERISCOPE IN MICROWAVE RELAY ANTENNAS
RM-3930-PR N64-12172 03-08

WEAK MACH REFLECTION - VON NEUMANN SHOCK THEORY
MRC-460 N64-20339 13-20

FORTRAN PROGRAM FOR ENERGY RATIOS OF REFLECTED AND REFRACTED WAVES AT FLAT BOUNDARIES
TR-9 N64-22257 15-23

EXPRESSIONS FOR COEFFICIENT OF SPATIAL AUTOCORRELATION OF AMPLITUDE AND PHASE FROM STATISTICALLY ROUGH SURFACE N64-23791 16-08

REFLECTION OF SOUND WAVES FROM STATISTICALLY UNEVEN SURFACE IN PRESENCE OF SHADOWS
N64-27159 19-08

STATE OF GAS BEHIND REFLECTED SHOCK IN REGION AROUND END OF SHOCK TUBE N64-30672 22-11

RADIO WAVE REFLECTION COEFFICIENT FOR SMOOTH INHOMOGENEOUS LAYER N64-32228 23-08

OVERPRESSURE IN REFLECTED SHOCK WAVES
PMMP-160 N64-33581 24-11

WAVE RESISTANCE
EFFECT OF FLUID VISCOSITY ON WAVE RESISTANCE
AD-602217 N64-28642 20-11

BULBOUS BOWS FOR SHIPS TO MINIMIZE WAVE RESISTANCE
TR-117-6 N64-29808 21-34

COUPLING RESISTANCE MEASUREMENT OF SLOW WAVE SYSTEMS BY DIELECTRIC PROBE N64-31361 23-09

WAVE SCATTERING
ELECTROMAGNETIC WAVE SCATTERING IN TROPOSPHERE - RADIO WAVE SCATTERING FORMULAS
JPRS-21717 N64-10203 01-12

SCATTERING DESCRIPTION OF ELECTROMAGNETIC WAVES BY ELECTRON DENSITY PROFILE OF ELECTRON-PHONON SYSTEM
MATT-201 N64-11585 03-24

NUMERICAL STUDY OF REGGE PARAMETERS IN POTENTIAL SCATTERING OF RADIO WAVES
UCRL-11096 N64-14165 05-23

DOPPLER EQUATIONS FOR CALCULATING FREQUENCY OF WAVE SCATTERED BY BODY MOVING IN HOMOGENEOUS AND INHOMOGENEOUS MEDIA
AFOSR-5367 N64-14349 06-24

TWO-DIMENSIONAL SELF-FOCUSING ANTENNA ARRAY MODEL AND SCATTERING FROM METAL SPHERES
RADC-TDR-64-40 N64-20027 13-09

WAVE SCATTERING & PARTICLE COLLISION INTERACTION - QUANTUM MECHANICS
AD-432060 N64-20344 13-23

SOUND PROPAGATION AND PLANE WAVE SCATTERING BY INFINITE NONRIGID STRIP IN INFINITE RIGID PLANE BAFFLE
TRG-142-TN-64-1 N64-24225 16-23

TRANSIENT WAVE SCATTERING FROM CIRCULAR CYLINDRICAL CAVITY IN INFINITE ELASTIC SOLID
RTD-TDR-63-3052 N64-30887 22-25

CONVERSION OF FIREFLY PROJECT RADAR DATA - WAVE SCATTERING FROM IONIZED ARTIFICIAL CLOUDS
N64-31382 23-12

ELECTROMAGNETIC WAVE SCATTERING BY TURBULENCE OF WAKE FROM REENTRY VEHICLE & BY BODY MOVING IN IONOSHERE OR PLASMA
R-111 N64-33493 24-24

WAVEFORM
LARGE SAMPLE ESTIMATION OF UNKNOWN DISCRETE WAVEFORM WHICH IS RANDOMLY REPEATING IN GAUSSIAN NOISE
TECH. REPT.-93 N64-16656 08-08

IRREGULARITIES OF IONOSPHERIC D-LAYER AND EFFECT ON WAVEFORM OF ATMOSPHERICS N64-19681 12-12

OPTIMIZATION OF SIGNAL WAVEFORMS USING PONTRYAGIN PRINCIPLE
ESD-TDR-64-18 N64-20902 14-08

CIRCUIT TO CORRECT OUTPUT WAVEFORM OF TRANSISTOR CHOPPER TO SQUARE WAVE SIGNAL
BI-026 N64-26514 18-09

CHANNEL INPUT WAVEFORM UNDER ADDITIVE NOISE AND TIME AND FREQUENCY SPREADING
ESD-TDR-64-56 N64-30600 22-08

LANGMUIR PROBE RESPONSE TO PERIODIC WAVEFORM AND APPLICATION TO STUDY OF LABORATORY PLASMAS OR CHARGED PARTICLES IN SPACE N64-33151 24-24

WAVEGUIDE
STRESS JUNCTION OF QUARTZ METAL TO PRODUCE WAVEGUIDE WINDOWS FOR ULTRAHIGH FREQUENCY DEVICES
JPRS-17936 N64-10569 01-09

INTERACTION OF WAVES IN WAVEGUIDE SYSTEMS WITH LONG ELECTRON FLOWS
JPRS-19051 N64-10813 02-09

COMPUTER CALCULATION OF CHARACTERISTICS OF

CYLINDRICAL DIELECTRIC WAVEGUIDE MODE PROPAGATION
AFCRL-63-304 N64-12231 03-09

WAVELENGTHS FOR CYLINDRICAL WAVEGUIDES AND FREE SPACE
PAD-74 N64-12347 03-09

ULTRAHIGH POWER TRANSMISSION LINE TECHNIQUES - WAVEGUIDE BENDS
RADC-TDR-63-342 N64-12584 04-08

TRANSMISSION LINE MULTIMODE POWER MEASUREMENT TECHNIQUE - SIZE REDUCTION, FREQUENCY RANGE, WAVEGUIDES
RADC-TDR-63-433 N64-12588 04-08

DISC-LOADED CIRCULAR WAVEGUIDE STRUCTURE USED TO CARRY DEFLECTING RADIOFREQUENCY FIELD
CERN-63-33 N64-12914 04-09

PRINCIPAL MODE DIFFRACTION AT END OF WAVEGUIDE TERMINATED BY INFINITE-PLANE FLANGE
N64-13397 04-09

SURFACE WAVEGUIDING AND RADIATING SYSTEMS
CU-25-62-AF-3879-EE N64-13760 05-23

MICROWAVE WAVEGUIDE CIRCUIT TO SHOW ELECTRON CYCLOTRON RESONANCE INTERACTION
RADC-TDR-63-509 N64-14967 06-24

DISPERSION RELATIONS, ELECTROMAGNETIC FIELD, AND POWER FLOW IN CYLINDRICAL PLASMA-FILLED WAVEGUIDE WITH AXIAL MAGNETIC FIELD
AD-428783 N64-15368 07-24

TWO-DIMENSIONAL GREEN FUNCTION FOR SCALAR WAVE EQUATION OF PARALLEL-WALL WAVEGUIDE
NASA-CR-55653 N64-15542 07-20

EXCITATION OF HIGHER ORDER MODES BY STEP DISCONTINUITY IN CIRCULAR WAVEGUIDES
NASA-CR-53062 N64-15786 07-09

WAVEGUIDE WITH ARBITRARY CROSS SECTION CONSIDERED BY CONFORMAL MAPPING
NASA-CR-55509 N64-16110 07-08

USE OF TRAVELING WAVEGUIDE IN PASS-BAND REGION AS WIDEBAND ACCELERATING STRUCTURE FOR PROTON SYNCHROTRON
CERN-64-10 N64-16122 10-23

STRATIFIED PLASMA RADIATING INTO WAVEGUIDE SLOT - ANTENNA
AFCRL-63-394 N64-18336 10-24

ANALOGOUS PROPAGATION MODES OF TRANSVERSE WAVES IN INHOMOGENEOUS PLASMA AND TAPERED WAVEGUIDE
MATT-237 N64-18341 10-24

APERTURE ADMITTANCE OF RECTANGULAR WAVEGUIDE RADIATING THROUGH GROUND SHEET INTO LOSSY HALF-SPACE
NASA-CR-53514 N64-19608 12-24

HIGH FREQUENCY/VERY HIGH FREQUENCY IONOSPHERIC PROPAGATION WAVEGUIDE MODES
BR-2893 N64-20311 13-08

PATH POWER LOSSES IN ENDO-IONOSPHERIC WAVEGUIDE MODES N64-20312 13-08

RADIATION PATTERN OF PARALLEL PLATE TRANSVERSE ELECTROMAGNETIC MODE WAVEGUIDE APERTURE
AD-433718 N64-20353 13-08

MICROWAVE INVESTIGATION OF DIELECTRIC WAVEGUIDE PROPAGATION BY MAGNETO-IONIC DUCTS
AFCRL-64-219 N64-21447 14-24

CIRCULAR WAVEGUIDE DUPLEXERS AND WAVEGUIDE MICROWAVE TRANSMISSION LINE
RTD-TDR-63-4141 N64-21667 15-09

MULTIPACTOR EFFECT APPLIED TO PROBLEM OF TRANSMITTING HIGH POWER LEVELS THROUGH WAVEGUIDES OPERATING AT LOW GAS PRESSURES
SSD-TDR-64-77 N64-22322 15-08

GENERALIZED SCATTERING MATRIX ANALYSIS OF WAVEGUIDE DISCONTINUITY PROBLEMS
AFCRL-64-290 N64-22690 15-08

INFLUENCE OF WAVEGUIDE CHARGED PARTICLE MOVEMENT ON PLASMA ELECTROMAGNETIC RADIATION
AFCRL-64-279 N64-22918 16-24

MACROSCOPIC OPTICAL WAVEGUIDE COMPONENTS
NASA-CR-56569 N64-24026 16-09

EXCITATION OF BACKWARD WAVE MODES IN PLASMA WAVEGUIDE N64-24669 17-24

DISCONTINUITY PROBLEM IN CIRCULAR WAVEGUIDE CONTAINING TWO DIELECTRICS N64-24670 17-08

PROPAGATING BACKWARD WAVE MODES IN PLASMA WAVEGUIDES N64-24671 17-08

NOISE RADIATION FROM LOW PRESSURE PLASMA COLUMN IN FREE SPACE AND IN WAVEGUIDE N64-24675 17-24

MODEL WAVEGUIDE FOR STUDY OF IONOSPHERE PERTURBATIONS & PROPAGATION
QPR-9 N64-26267 18-08

CROSSED-RECTANGLE TRANSDUCER FOR MICROWAVE COUPLING OF RECTANGULAR TO CIRCULAR WAVEGUIDES
USAELRDL-TR-2389 N64-26296 18-08

ELECTROMAGNETIC WAVE PROPAGATION IN CIRCULAR WAVE GUIDE FILLED BY GAS DISCHARGE PLASMA
N64-27004 19-24

WAVE PROPAGATION IN NONUNIFORM WAVEGUIDES WITH IMPEDANCE WALLS
AD-440499 N64-27144 19-08

PLASMA WAVE PROPAGATION IN WAVEGUIDES OR MICROWAVE CIRCUITS N64-27999 20-24

COMPUTATION OF PARABOLIC AND ELLIPTIC WAVEGUIDES BY CONFORMAL MAPPING
NASA-CR-56797 N64-28973 20-23

MICROWAVE SCATTERING FROM PLASMA COLUMN IN RECTANGULAR WAVEGUIDE
IPPJ-27 N64-29354 21-24

FIELD INTENSITY, GUIDE WAVELENGTHS, AND ATTENUATION OF GROOVED WAVEGUIDE
NASA-CR-58721 N64-29403 21-09

TENSOR GREEN FUNCTION OF RECTANGULAR WAVEGUIDE AND CAVITY N64-29459 21-09

NONSTATIONARY PROCESS IN WAVEGUIDE RESONATORS
N64-29464 21-09

VARIABLE WAVEGUIDE ATTENUATOR FOR HIGH POWER LEVEL
N64-29469 21-09

MEASURING MODES WITHIN WAVEGUIDES EMPLOYING SEMI-INFINITE SLAB OF MERCURY
RADC-TDR-64-248 N64-29818 21-23

EFFECTS OF ROD WIDTH AND WAVEGUIDE HEIGHT ON FERRITE PHASE SHIFTER
NRL-6112 N64-29874 21-25

PHASE SHIFT BY PERIODIC LOADING OF WAVEGUIDE
ESD-TDR-64-344 N64-30697 22-09

WAVEGUIDE MODEL FOR IONOSPHERIC PROPAGATION AND PERTURBATION
QR-7 N64-31260 22-08

THEORETICAL ANALYSIS OF LOSS MEASUREMENT IN MULTIMODE WAVEGUIDE BY SERIES OF PULSES METHOD
N64-31355 23-09

NOISE-FIGURE MEASUREMENTS OF X-BAND WAVEGUIDE MIXER WITH TUNNEL DIODE
AFCRL-64-547 N64-31807 23-09

FORMULATION OF BOUNDARY VALUE PROBLEM IN IRIS LOADED INFINITE PERIODIC WAVEGUIDE WITH GLIDE REFLECTION SYMMETRY

TR-75 N64-31831 23-08

MACROSCOPIC OPTICAL WAVEGUIDE COMPONENT ANALYSIS, TESTING, AND CONSTRUCTION MATERIALS
NASA-CR-58870 N64-33039 24-17

MACROSCOPIC WAVEGUIDE MEDIUM FOR LASER SYSTEM COMPONENTS - CHEMICAL DIFFUSION FOR CONTROL OF DIELECTRIC CONSTANT
NASA-CR-58999 N64-33168 24-23

ANALYSIS OF OPTICAL INTERFERENCE FILTER CONSTRUCTED IN WAVEGUIDE MEDIUM
NASA-CR-59160 N64-33178 24-23

MACROSCOPIC OPTICAL WAVEGUIDE COMPONENTS
NASA-CR-59176 N64-33179 24-17

WAVEGUIDES FOR HIGH POWER TRANSMISSION LINES
RADC-TDR-64-277 N64-33306 24-09

WAVEGUIDE MODEL OF IONOSPHERIC PERTURBATION EFFECTS ON VERY LOW FREQUENCY ELECTROMAGNETIC PROPAGATION
AD-420379 N64-33428 24-08

IONOSPHERIC WALL PERTURBATIONS AND PROPAGATION IN MULTIMODE WAVEGUIDES
QR-10 N64-33490 24-12

AIRBORNE ANTENNAS FOR COMBAT SURVEILLANCE - PARTIALLY DIELECTRIC LOADED TROUGH WAVEGUIDE WITH ARRAY OF SLOTS IN ONE SIDE WALL
AD-445798 N64-33767 24-08

WAVEGUIDE ANTENNA
NEW ANTENNA TECHNIQUES FOR AEROSPACE VEHICLE DOPPLER VELOCITY SENSORS
P63-74 N64-13128 04-09

ADMITTANCE OF WAVEGUIDE ANTENNA RADIATING INTO PLASMA ENVIRONMENT
AFCRL-63-540 N64-13838 05-24

ADMITTANCE & VOLTAGE DISTRIBUTION FOR RECTANGULAR CAVITY OR WAVEGUIDE-BACKED SLOT ANTENNA COVERED BY FINITE PLASMA LAYER RADIATING INTO FREE SPACE
AFCRL-63-393 N64-14199 06-24

ANTENNA WITH NIOBIUM S-BAND WAVEGUIDE AND SILICON CARBIDE HEATING ELEMENTS
CAL-UB-1807-E-3 N64-19563 12-09

VARIATION OF METAL PLATE WAVEGUIDE LENS FOR RADAR ANTENNA - BOOTLACE LENS
NRL-6075 N64-26915 18-08

WAVEGUIDE TUNER
DEVELOPMENT OF CIRCULAR DOT AND DISTRIBUTED JUNCTION DIODES AND OF STRIPLINE AND WAVEGUIDE OSCILLATOR CIRCUITS
AD-431542 N64-16988 09-09

WAVELENGTH
ELECTRICAL TRANSPORT EQUATION EXTENDED TO COLLISION FREQUENCY AND FINITE WAVELENGTH FOR PLASMA MODEL
MATT-216 N64-11279 02-24

WAVELENGTHS FOR CYLINDRICAL WAVEGUIDES AND FREE SPACE
PAD-74 N64-12347 03-09

EXPRESSIONS FOR WAVE LENGTH EXPONENT OF LATERAL LIGHT SCATTERING AND TURBIDITY FOR ISOTROPIC NONABSORBING SPHERES
AD-426133 N64-13984 05-23

WAVELENGTH ANALYSIS OF FLUORESCENCE FROM GASES EXCITED BY VACUUM ULTRAVIOLET RADIATION - PHOTOIONIZATION
AFCRL-64-168 N64-19633 12-23

RADIANCE OF EARTH IN WAVELENGTH INTERVALS AS OBSERVED FROM HIGH ALTITUDES
DRI-2149 N64-20106 13-28

WAVELENGTHS OF ROTATIONAL-VIBRATIONAL HYDROXYL BANDS N64-21892 15-12

HIGH RESOLUTION STUDIES OF SOLAR RADIO EMISSION AT 11.4M WAVELENGTH
ERR-AN-233 N64-26509 18-28

FIELD INTENSITY, GUIDE WAVELENGTHS, AND ATTENUATION OF GROOVED WAVEGUIDE
NASA-CR-58721 N64-29403 21-09

LOWEST CUT-OFF WAVELENGTH OF MICROWAVE TRANSMISSION LINE - T-SEPTATE LUNAR LINE
AFCRL-62-80 N64-29439 21-09

INTERIOR STRESS DISTRIBUTION IN EDGE-LOADED, ELASTIC, THIN WALLED SHELLS WITH LOAD WAVELENGTH LESS THAN RADIUS OF CURVATURE
REPT.-6-90-63-84 N64-29680 21-33

WAVELENGTH STANDARDS FOR HIGHLY IONIZED SPECTRA OF NITROGEN AND OXYGEN
NASA-CR-59379 N64-33923 24-23

WEAPON
BALL LIGHTNING AS POSSIBLE WEAPON FOR COMBATTING BALLISTIC ROCKETS
FTD-TT-63-806/1&2 N64-12620 04-01

BIBLIOGRAPHY ON BALLISTICS, GUIDED MISSILES, AND WEAPONS
TDCK-15963 N64-32590 23-33

WEAPON SYSTEM
APPLICATION OF GAME THEORY OF WEAPON SYSTEMS AND WEAPON TRANSPORT VESSELS TO MILITARY OPERATIONAL PROBLEMS
JPRS-19374 N64-10820 02-28

PARTICULAR CROSS-CORRELATION SIGNAL PROCESSING TECHNIQUE WITH POTENTIAL APPLICATION TO WEAPON SYSTEMS - RADAR SYSTEM
RE-TR-63-23 N64-12220 03-09

EQUIPMENT FOR ANTENNA PATTERN AND SPECTRUM MEASUREMENTS OF RADIATING WEAPON SYSTEMS - OPERATION CENTRAL AN/MSQ-16
RADC-TDR-63-403 N64-13783 05-08

MARRIAGE, ENGINEERING EVALUATION, & WEAPON SYSTEM TEST ON PERSHING BALLISTIC GUIDED MISSILE TRAINER XM-19
RT-TR-63-12 N64-13810 05-01

NUCLEAR WEAPON RADIATION SAFETY PROGRAM N64-14579 06-01

RESEARCH FOR AND DEVELOPMENT OF WEAPONS SYSTEM N64-15638 07-01

INFORMATION USED FOR HUMAN FACTORS PROBLEMS FREQUENTLY ENCOUNTERED IN DEVELOPMENT OF WEAPONS SYSTEM TRAINER
NAVTRADEVCEN-1103-1 N64-16887 08-18

WEAPON SYSTEM ENVIRONMENTAL PROGRAM
FDL-TDR-64-20 N64-18183 10-01

SHOCK, VIBRATION, & DYNAMIC RESPONSE OF VEHICLES AND WEAPON SYSTEMS TO ENVIRONMENTS
AD-432931 N64-18534 11-33

SHOCK AND VIBRATION TECHNOLOGY APPLIED TO MILITARY WEAPON SYSTEMS N64-18536 11-33

MANPOWER & PERSONNEL FOR ADVANCED WEAPON SYSTEMS - ESTIMATION OF REQUIREMENTS
AMRL-TDR-63-110 N64-18599 11-14

EROSION CONTROL IN ROCKET ENGINE OF LAW WEAPON SYSTEM - ROCKET LAUNCHING DEVICE FOR ARMY
TM-1330 N64-20267 13-27

ELECTROMAGNETIC COMPATIBILITY TESTS FOR WEAPONS SYSTEMS N64-22848 16-09

ATLAS F WEAPON SYSTEM RELIABILITY - MATHEMATICAL MODEL AND ASSOCIATED STUDIES
BSD-TDR-64-8, VOL. 3 N64-23220 16-30

ATLAS F WEAPON SYSTEM RELIABILITY
BSD-TDR-64-8, VOL. 1 N64-23281 16-31

WEAPONS SYSTEM COMMAND AND CONTROL SYSTEMS - DEPLOYMENT, RETALIATION, UNMANNED MISSILE SITES, AND WEAPON SYSTEMS COSTS N64-24854 17-20

MILITARY TECHNOLOGY - CONCEPTS OF SPACE ARMAMENT CONTROL
P-2873 N64-25649 17-01

SYSTEMS ANALYSIS AND TRAINING METHODS FOR MAINTENANCE OF ELECTRONIC WEAPON SYSTEM
RR-13 N64-25800 17-09

STANDARD ENVIRONMENTAL TESTING METHODS FOR WEAPON SYSTEMS
SC-4452C/M/ N64-26290 18-17

SILICON SWITCH FOR REDUCTION OF RADIO-FREQUENCY INTERFERENCE IN WEAPON SYSTEM CIRCUITRY
NOLTR-64-43 N64-26563 18-09

ANALOG-TO-DIGITAL, BRUSHLESS, SHAFT ENCODER PROGRAM FOR WEAPONS SYSTEMS N64-31502 23-15

WEAPON SYSTEM MANAGEMENT
INSTRUMENTATION, EQUIPMENT, AND METHODS IN ENVIRONMENTAL TESTS - WEAPON SYSTEM MANAGEMENT
SC-4452B/M/ N64-19713 12-10

WEAPON SYSTEM 107A-1
BIBLIOGRAPHY OF AERODYNAMICS, INSTALLATIONS, HEAT TRANSFER, THERMODYNAMICS, AND ELECTRONICS RESEARCH FOR WEAPONS SYSTEM 107A-1
GDA-ACH64-002 N64-16985 09-30

WEAPON SYSTEM 133A
STATHAM DIFFERENTIAL PRESSURE TRANSDUCER - WEAPON SYSTEM 133A
AD-421712 N64-12171 03-15

QUALIFICATION TESTING OF STATHAM ABSOLUTE PRESSURE TRANSDUCER FOR WEAPON SYSTEM 133A
AD-426920 N64-14096 05-15

WEAPON SYSTEM 133B
WEAPON SYSTEM 133B PROGRESS
AD-422166 N64-15707 07-01

WEAR
PROPERTIES OF METAL-CERAMIC ELECTRIC CONTACTS AS BASIS FOR POWDER METALLURGICAL STUDY OF HIGH VOLTAGE BREAKING SYSTEMS - WEARING CONDITIONS
JPRS-18926 N64-10648 01-09

FRICTION, WEAR, DECOMPOSITION MECHANISMS, AND EVAPORATION RATES OF POLYMER COMPOSITIONS IN VACUUM
NASA-TN-D-2073 N64-12105 03-19

INFLUENCE OF LUBRICATION ON ENDURANCE, WEAR, AND CONDUCTIVITY OF ROLLING CONTACTS
AL64T003 N64-16087 07-17

WEAR MEASUREMENT OF METAL SPECIMENS SUBMITTED TO CONSTANT CAVITATION FIELD BY USING RADIOTRACER TECHNIQUES
NASA-CR-53112 N64-16763 08-08

MACHINING WEAR-RESISTANT ALLOYS & HIGH TEMPERATURE CORROSION-RESISTANT ALLOYS N64-17095 09-17

WEAR ANALYSIS OF NONLUBRICATED SPUR GEARS
NASA-CR-53197 N64-17227 09-17

FRICTION AND WEAR OF NICKEL-ALUMINUM ALLOYS AND SOME SULFUR-MODIFIED STEELS IN VACUUM
NASA-TN-D-2307 N64-20192 13-17

WEAR RESISTANCE OF ENAMEL COATINGS WITH REFERENCE TO LIFE OF MACHINE PART
FTD-TT-62-1659/1&2&4 N64-21922 15-19

EFFECTS OF CADMIUM PLATE SUBSTRATE ON WEAR LIFE AND CORROSION RESISTANCE OF DRY FILM LUBRICANT COATED BEARINGS
A754 N64-22596 15-17

X-RAY INVESTIGATION OF RESIDUAL STRESSES OF FIRST AND THIRD KIND DURING WEAR OF STEEL SPECIMENS IN PROCESS N64-23839 16-33

X-RAY ANALYSIS OF WEAR OF METALS WITH PREHARDENED SURFACE N64-23840 16-33

FRICTION, WEAR, AND DYNAMIC SEAL STUDIES IN LIQUID FLUORINE AND LIQUID OXYGEN
NASA-TN-D-2453 N64-27945 20-17

EFFECTS OF RING, BRUSH, & INSULATOR MATERIALS ON ELECTRICAL NOISE AND MECHANICAL WEAR IN MINIATURE SLIP-RING ASSEMBLIES
NASA-CR-58666 N64-29693 21-17

WEAR LIFE AND CORROSION PROTECTIVE ABILITY OF SOLID FILM LUBRICANT SUBSTRATES
RIA-64-1377 N64-31310 22-17

WEAR AND VIBRATION TESTS OF SLIP RING ASSEMBLIES
NASA-CR-58686 N64-33045 24-17

WEATHER
EFFECTS OF WEATHER ON AIRPORT CAPACITY - AIR TRAFFIC CONTROL N64-11594 03-10

RELATION OF SOLAR VARIATION TO WEATHER ON EARTH FROM SATELLITE DATA
NASA-CR-52682 N64-11717 03-01

MODEL OF EQUATORIAL SUMMER ATMOSPHERE FOR STUDY OF INTERACTION WITH SOLAR WIND - WEATHER DISTURBANCE N64-11719 03-28

WATER TRANSFER FROM SOIL TO ATMOSPHERE AS RELATED TO SOIL PROPERTIES, PLANT CHARACTERISTICS, AND WEATHER N64-12988 04-12

SHORT PERIOD ELECTRIC FIELD OSCILLATIONS OF FAIR WEATHER FIELDS
AP-23 N64-14036 05-21

TIROS OBSERVATIONS OF SUMMER CIRCULATION AND WEATHER PATTERNS OF THE EASTERN NORTH PACIFIC
HIG-40 N64-14137 05-21

RELATIONSHIP OF AIR TEMPERATURE AND BAD WEATHER PERIODS
RSIC-110 N64-15125 07-21

COMPUTER FACILITY AND TRAINING PROGRAM AT INTERNATIONAL METEOROLOGICAL CENTER - PROGRAM FOR SHIP WEATHER REPORTS AND RADIOSONDE PROCESSING N64-16304 08-20

TIROS METEOROLOGICAL DATA STUDIES FOR LOWER MIDDLE LATITUDE WEATHER
AFCRL-64-239 N64-18899 11-21

COMPUTER PROGRAMMING FOR WEATHER DATA PROCESSING
AD-437483 N64-23905 16-21

SOUTH POLE WEATHER DATA & ANALYSIS OF CURVATURE CHARCTERISTICS OF MICROMETEOROLOGICAL WIND & POTENTIAL TEMPERATURE PROFILE N64-24485 17-21

WEATHER SERVICE EMERGENCY MISSION SUPPORT SYSTEM - AIR TRAFFIC CONTROL, COMMUNICATIONS, & NAVIGATIONAL AID EQUIPMENT
REPT.-4-WGP-105-15-1 N64-26318 18-21

WEATHER AS FACTOR IN FLIGHT SAFETY IN MILITARY AVIATION
JPRS-26524 N64-29758 21-21

METEOROLOGICAL INSTRUMENTATION AND TECHNIQUES FOR ARMY WEATHER OBSERVATION
REPT.-4 N64-31161 22-21

OPTIMUM PARAMETERS AND OPERATION MODES FOR AIRBORNE WEATHER-RECONNAISSANCE RADAR AND ANALYSIS OF RADAR ECHO MOTION ABOUT HURRICANE
AD-421622 N64-31256 22-21

WEATHER CONDITION
RELATION OF SOLAR ACTIVITY TO EARTH WEATHER - CORRELATION OF SATELLITE DATA AND WEATHER OBSERVATIONS N64-11710 03-28

WEATHER CONDITIONS & PRECIPITATION IN TOKYO, JAPAN
RSIC-109 N64-13814 05-21

LOWERING MINIMAL WEATHER CONDITIONS FOR SAFE LANDING OF TRANSPORT AIRCRAFT
AGARD-436 N64-14216 06-10

EFFECTS OF VARIOUS WEATHER CONDITIONS ON SONIC BOOM PROPAGATION AND STRENGTH, AS DETERMINED BY COMPUTER SIMULATION & EXPERIMENTAL FLIGHTS
PR-3 N64-14340 06-21

METEOROLOGICAL AND WEATHER CONDITIONS IN HAILSTORM
N64-17570 09-21

ALL-WEATHER LANDING SYSTEM N64-20932 14-22

TURBOJET AIRCRAFT INSTRUMENTS FOR LANDING SYSTEM FOR USE UNDER CATEGORY III WEATHER CONDITION
N64-20934 14-15

WEATHER CONDITION MEASUREMENTS AND OPERATIONAL LIMITS OF ALL-WEATHER LANDING SYSTEM
N64-20936 14-21

VISUAL AIDS SYSTEM FOR ALL-WEATHER LANDING SYSTEM
N64-20937 14-22

OPTIMIZATION OF AVIATION WEATHER CONDITION DATA DISPLAY SYSTEM
RD-64-59 N64-23174 16-21

EFFECTS OF TERRAIN AND WEATHER CONDITIONS ON AIRBORNE DOPPLER RADAR NAVIGATION SYSTEM
RD-64-15 N64-23238 16-22

METEOROLOGICAL REQUIREMENTS FOR CIVIL AND MILITARY AVIATION THROUGH 1975
RD-64-31 N64-30622 22-21

CORRELATION OF EARTHSHINE BRIGHTNESS WITH WORLDWIDE WEATHER FOR 1958
SAO SPECIAL REPT.-162 N64-30657 22-12

CEILING, VISIBILITY WIND, AND WEATHER DATA FOR WASHINGTON NATIONAL AIRPORT
RD-64-54, VOL. 12 N64-32543 23-22

WEATHER CONTROL
WEATHER CONTROL AND CLOUD PRODUCTION BY HIGH SPEED AIR HEATING, AND EXPLORATION OF EARTH MANTLE AND CRUST INTERIOR BY BOREHOLES
JPRS-18235 N64-10573 01-01

CONTROL OF ENTIRE EARTH CLIMATE BY REGULATING INCIDENT SOLAR ENERGY - PROJECTS FOR CLIMATE CONTROL OVER LOCAL GEOGRAPHIC AREAS
JPRS-19145 N64-11126 02-21

WEATHER CONTROL VIA CLOUD SEEDING
FTD-TT-63-633/16264 N64-11166 02-21

SEEDING OF SUPERCOOLED CLOUDS AND FOG OVER LARGE AREAS USING SOLID CARBON DIOXIDE
N64-11167 02-21

DISSIPATION OF FOG FROM GROUND USING SOLID CARBON DIOXIDE N64-11168 02-21

NATIONAL AIRSPACE SYSTEM DESIGN - AIR TRAFFIC, NAVIGATION, AIRPORT AND WEATHER CONTROL
N64-11912 03-01

WEATHER CONTROL THROUGH ARTIFICIAL MODIFICATION OF CLOUDS AND FOG
T-R-401 N64-12834 04-21

TECHNIQUES FOR MODIFICATION OF CLOUDS AND FOGS & DISSIPATING THESE FORMATIONS
JPRS-22609 N64-13228 04-21

CLIMATE CONTROL STUDIES
JPRS-22798 N64-13352 04-21

HUMAN CONTROL OF WEATHER AND CLIMATE
N64-24404 17-21

METHODS OF WEATHER CONTROL - METEOROLOGICAL RESEARCH
JPRS-25845 N64-27063 19-21

CLOUD AND PRECIPITATION FORMATION AND WEATHER MODIFICATION
TR-177 N64-29899 21-21

CREDIBLE CATASTROPHIC EVENTUALITIES FROM PROPELLANT TRANSPORTATION, ROCKETS, AIRCRAFT AND WEATHER CONTROL
NASA-CR-58145 N64-30504 22-16

ARTIFICIAL MODIFICATION OF CLOUDS AND FOG
JPRS-26561 N64-30660 22-21

MILITARY SIGNIFICANCE OF WEATHER CONTROL
JPRS-26861 N64-32807 24-21

HURRICANE MODIFICATION
NASA-CR-59080 N64-33092 24-21

WEATHER DATA RECORDER
SYSTEM ANALYSIS OF METEOROLOGICAL SATELLITE WITH CAMERA FOR WEATHER DATA RECORDING
MSL-19 N64-11656 03-32

WEATHER FORECASTING
AUTOMATIC TELEMETERING HYDROMETEOROLOGICAL SYSTEM TO INCREASE ACCURACY IN WEATHER FORECASTING
N64-10283 01-12

FAIR WEATHER EXPECTATION BASED ON CLOUD COVER STUDIES
AFCRL-63-720 N64-10540 01-21

TURBULENT FLOW, WEATHER FORECASTING, FOG BOUNDARY LAYERS, RAIN INTENSITY CALIBRATION OF RADAR, HIGH SPEED TURBULENCE, & BIBLIOGRAPHY ON METEOROLOGY
JPRS-18141 N64-10570 01-21

METEOROLOGICAL SATELLITE & NUMERICAL WEATHER PREDICTION BY INTEGRATION OF FINITE DIFFERENCE ANALOGS OF ATMOSPHERE EQUATIONS OF STATE
N64-10931 02-21

WEATHER FORECASTING FORMS FOR CIVIL AVIATION
N64-10996 02-21

WEATHER ANALYSIS AND FORECASTING - CLIMATOLOGY
AFCRL-63-718 N64-11601 03-21

FORECASTING PRECIPITATION, CLOUD SEEDING, AND HEIGHT OF LOWER BOUNDARY OF CLOUDS
JPRS-18696 N64-11836 03-21

LAYER METHOD FOR HAIL FORECASTING
N64-11842 03-21

FORECASTING AMOUNT OF AIR-MASS SHOWER PRECIPITATION BY LAYER METHOD N64-11843 03-21

TIROS METEOROLOGICAL SATELLITE SUBSYSTEMS AND WEATHER INFORMATION
IAC PAPER-91 N64-12004 03-32

ATMOSPHERIC SCIENCES - RELATION OF METEOROLOGY, HYDROLOGY & OCEANOGRAPHY, HIGH ATMOSPHERE & ATMOSPHERIC CHEMISTRY STUDY, & WEATHER PREDICTION
NAS-NRC-PUBL.-1085 N64-12109 03-21

GRAPHIC AIDS TO FORECASTING LOW CLOUDINESS, POOR VISIBILITY, AND FOG N64-12791 04-21

LIGHT IMPULSE LOCATOR AND TRIGONOMETRIC DEVICES FOR MEASURING HEIGHT OF CLOUD BASES
N64-12792 04-21

FORECASTING ATMOSPHERIC PRESSURE FIELDS USING HYDRODYNAMIC EQUATIONS
JPRS-22648 N64-12903 04-21

WEATHER FORECASTING - FLUCTUATION & DEFORMATION OF HIGH-ALTITUDE PLANETARY FRONTAL ZONES, COMPUTING ALTITUDE OF 500-MILLIBAR SURFACE
JPRS-22741 N64-13467 05-21

FLUCTUATIONS OF HIGH-ALTITUDE PLANETARY FRONTAL ZONES DURING NATURAL SYNOPTIC PERIODS - WEATHER FORECASTING N64-13468 05-21

LONG RANGE WEATHER FORECASTING - COMPUTING ALTITUDE OF 500-MILLIBAR SURFACE
N64-13469 05-21

FORECASTING DEFORMATION OF HIGH-ALTITUDE PLANETARY FRONTAL ZONE DURING NATURAL SYNOPTIC PERIODS
N64-13470 05-21

ANNOTATED BIBLIOGRAPHY ON METEOROLOGICAL SATELLITES AND WEATHER FORECASTING
N64-14260 06-32

NONADIABATIC MODEL OF ATMOSPHERIC MOVEMENT AND SATELLITE RADIATION MEASUREMENTS FOR WEATHER FORECASTING
JPRS-23129 N64-14921 06-21

PROBLEMS OF LONG-RANGE WEATHER FORECASTING AND INFLUENCE OF SOLAR ACTIVITY ON SYNOPTIC PROCESSES
JPRS-23237 N64-15152 07-21

PROBLEMS OF WEATHER FORECASTING IN LOW LATITUDES AND POSSIBLE USE OF RADAR FOR ACCURATE PREDICTION
N64-16302 08-21

THUNDERSTORM PATTERN & MOVEMENTS - WEATHER FORECASTING N64-16898 09-21

DAILY FORECASTING OF JET STREAM POSITION
JPRS-23754 N64-17553 09-21

NUMERICAL EXPERIMENTS IN WEATHER FORECASTING INDICATING ROLE OF SKIN FRICTION IN 5-LAYER BAROCLINIC MODEL
AFCRL-64-109 N64-18192 10-21

RELATIONSHIP BETWEEN DYNAMIC AND STATISTICAL APPROACHES TO WEATHER FORECASTING
N64-19431 12-21

SYNOPTIC METHOD OF LONG RANGE WEATHER FORECASTING
N64-19436 12-21

TIROS SATELLITE CLOUD PHOTOGRAPHS AND NEPHANALYSES IN NUMERICAL WEATHER FORECASTING
NSL-23 N64-19967 12-21

METEOROLOGICAL PREDICTIONS OF ATMOSPHERIC CIRCULATION AND ENERGY BALANCE
AFCRL-64-334 N64-20092 13-21

ATMOSPHERIC ELECTRICITY MEASUREMENTS AS POSSIBLE AID IN WEATHER FORECASTING
NWRF-29-1263-086 N64-21623 15-21

AIR LAUNCHED ROCKETSONDE COMPATIBILITY WITH WB-47 AIRCRAFT AND RADIOSONDE RECEIVER FOR WEATHER FORECASTING
AFCRL-64-59 N64-22307 15-32

METEOROLOGICAL SATELLITE FOR PREDICTING SHORT-TIME WEATHER CHANGES
FTD-TT-63-967/1 N64-22360 15-21

METEOROLOGY - WEATHER FORECASTING USES AND POTENTIAL
RM-4083-USWB N64-22618 15-21

AVIATION FORECAST QUALITY CONTROL
RD-64-65 N64-23171 16-04

EARTH CLIMATE, ATMOSPHERIC CIRCULATION, HEAT BALANCE, AND WEATHER FORECASTING
NASA-TT-F-168 N64-24401 17-21

SYNOPTIC WEATHER FORECASTING N64-24406 17-21

NUMERICAL ANALYSIS IN WEATHER FORECASTING
N64-24407 17-21

GENERAL CIRCULATION OF ATMOSPHERE - LONG RANGE FORECASTING N64-24412 17-21

OBJECTIVE ANALYSIS IN WEATHER FORECASTING
N64-24464 17-21

COMPUTER METHODS IN STRATOSPHERIC ANALYSIS & WEATHER FORECASTING N64-24465 17-21

BAROCLINIC MODEL FOR CANADIAN NUMERICAL WEATHER FORECASTING & PREDICTION N64-24466 17-21

OBJECTIVE ANALYSIS OF ATMOSPHERIC DATA IN WEATHER FORECASTING N64-24467 17-21

RADIATION EFFECTS & RADIOACTIVE MATERIALS - FORECASTING STUDIES IN HYDROMETEOROLOGY
JPRS-24860 N64-24799 17-21

SYNOPTIC METEOROLOGY - MACHINE ANALOGS FOR WEATHER FORECASTING N64-24803 17-21

CLASSIFICATION OF MACRO-SYNOPTIC METEOROLOGICAL PROCESSES N64-24804 17-21

MEDIUM RANGE WEATHER FORECASTING METHOD EMPLOYING SYNOPTIC CHARTS
JPRS-25509 N64-25535 17-21

MATHEMATICAL MODEL OF ATMOSPHERIC PROCESSES FOR WEATHER FORECASTING
JPRS-25398 N64-25719 17-21

SELECTED ARTICLES ON METEOROLOGY AND WEATHER FORECASTING
JPRS-24587 N64-26434 18-21

BARIC FIELD CALCULATION OF SYNOPTIC PERIOD FROM FIRST-DAY DATA - WEATHER FORECASTING
N64-26437 18-21

VERIFICATION OF NUMERICAL OPERATIONAL TROPICAL CYCLONE FORECAST TRACKS FOR 1963
TM-29 N64-26462 18-21

DIABATIC HEATING AND COOLING IN SYNOPTIC SCALE WEATHER SYSTEMS
CIR-4042 N64-26694 18-21

METEOROLOGY AND WEATHER FORECASTING
JPRS-25697 N64-27934 20-21

ELEMENTRY ALGORITHMS IN NUMERICAL SOLUTION OF WEATHER FORECASTING PROBLEM N64-27935 20-21

NUMERICAL WEATHER FORECASTING - STATISTICAL ANALYSIS OF ERRORS IN LINEARIZATION OF VORTICITY EQUATION FOR DIFFERENT ATMOSPHERIC MOVEMENTS
N64-27937 20-21

EXTRAPOLATIVE WEATHER FORECASTING FOR ANALYZING GEOPOTENTIAL FIELD IN AREAS HAVING LITTLE AVAILABLE DATA N64-27938 20-21

TECHNIQUES OF UPPER LEVEL WIND ANALYSIS AND FORECASTING FOR USE BY AUTOMATIC AIR TRAFFIC CONTROL SYSTEM
RD-64-101 N64-27947 20-21

HYDRODYNAMIC LONG RANGE WEATHER FORECASTING
JPRS-26176 N64-29666 21-21

HYDRODYNAMIC THEORY OF CLIMATE AND LONG RANGE WEATHER FORECASTING N64-29667 21-21

FORECASTING ZONAL CIRCULATION ON BASIS OF COUPLING MOMENTS - METEOROLOGY N64-29668 21-21

LONG PERIOD FORECASTING OF ZONAL CIRCULATION - METEOROLOGY N64-29670 21-21

COMPUTER PROGRAMMING FOR METEOROLOGY - GEOSTROPHIC WIND MODELING AND PREDICTION OF WIND & TEMPERATURE PROFILES
JPRS-26693 N64-31022 22-21

NUMERICAL INTEGRATION TECHNIQUES FOR BAROCLINIC WEATHER FORCASTING
AFCRL-64-600 N64-31834 23-21

WEATHER FORECASTING - STOCHASTIC PROCESSES AND USE OF MODEL ATMOSPHERE
AD-601745 N64-32059 23-22

NUMERICAL METHODS FOR WEATHER FORECASTING - DIFFERENTIAL EQUATIONS FOR DYNAMIC PROCESSES IN ATMOSPHERE
AD-601752 N64-32060 23-22

AEROLOGICAL FORECASTING USING ELECTRONIC COMPUTERS
N64-32332 23-21

AEROLOGICAL DATA FOR NUMFRICAL ANALYSIS AND WEATHER FORECASTING N64-32335 23-21

FORECASTING GUIDE ON AIRCRAFT ICING
AWSM-105-39 N64-33105 24-21

WEATHER AND SURFACE RADIATION FORECASTING STATION - PROJECT SHOAL
VUF-1008 N64-33404 24-21

STATISTICAL METHODS IN WEATHER FORECASTING
AD-420654 N64-33653 24-21

WIND CIRCULATION PREDICTION AND DATA PROCESSING SYSTEM FOR CHEMICAL-BIOLOGICAL WARFARE
GCA-TR-64-3-G N64-33842 24-12

WEATHER MAP
PHOTOTELEGRAPHIC APPARATUS FOR WEATHER MAP RECEPTION, AND OCEAN BOTTOM RELIEF RECORDING USING FATHOMETER
JPRS-17712 N64-10486 01-21

DAILY AND MONTHLY NORTHERN HEMISPHERE 10-MILLIBAR SYNOPTIC WEATHER MAPS FOR 1964
AD-421059 N64-28467 20-21

DAILY AND MONTHLY MEAN WEATHER MAPS OF UPPER ATMOSPHERIC CIRCULATION FOR OCT. - DEC. 1963
AD-442690 N64-30060 21-21

DAILY AND MONTHLY NORTHERN HEMISPHERE 30-MILLIBAR SYNOPTIC WEATHER MAPS, APR. - JUN. 1963
QTSR-2 N64-33091 24-21

DAILY AND MONTHLY SYNOPTIC WEATHER MAPS OF NORTHERN HEMISPHERE
QTSR-1 N64-33246 24-21

WEATHER RADAR
WEATHER RADAR RESEARCH AND ANALYSIS OF HURRICANE AND TORNADO DYNAMICS
AFCRL-64-202 N64-16977 09-21

APPLICABILITY OF DUAL-FREQUENCY WEATHER RADAR SYSTEM TO STUDY OF CONVECTIVE LIQUID PRECIPITATION
SCI. REPT.-63-22T N64-19012 11-21

RADAR ATTENUATION BY PRECIPITATION AND STUDY OF MORPHOLOGY OF SUBTROPICAL PRECIPITATION BY USE OF DUAL-FREQUENCY WEATHER RADAR SYSTEM
SCI. REPT.-63-30T N64-19013 11-21

METEOROLOGY - DETERMINATION OF SPEEDS OF VERTICAL AIR CURRENTS IN CONVECTIVE CLOUDS WITH HELP OF WEATHER RADAR
SCI. REPT.-63-31T N64-19014 11-21

DUAL-FREQUENCY WEATHER RADAR SYSTEM FOR STUDYING MORPHOLOGY OF SUBTROPICAL PRECIPITATION
N64-19297 11-21

WEATHER STATION
SPECIFICATIONS FOR AVIATION WEATHER SYSTEM - METEOROLOGICAL STATION, RADAR DATA REDUCTION EQUIPMENT, AND CIRCUIT CONTROL FOR COMPUTER
AD-420177 N64-31696 23-21

WEATHERING
EFFECT OF EXPOSURE TO WEATHERING UNDER SEASHORE CONDITIONS ON STRENGTH AND SERVICE LIFE OF BRAZED STAINLESS STEEL HONEYCOMB SANDWICH PANELS
FGT-2948 N64-15574 07-34

EFFECT OF WEATHERING ON BRAZED TITANIUM
FTDH-2988 N64-16635 08-18

WEB
CAMBER FLUTTER CHARACTERISTICS OF MONOCOQUE AND MULTIWEB WINGS SUBJECTED TO SUPERSONIC FLOW
NASA-TR-R-150 N64-10468 01-03

WEDGE
ELECTROMAGNETIC FIELD NEAR APEX OF WEDGE SURFACE
NBS-TN-204 N64-13940 05-23

CYLINDRICALLY BLUNTED WEDGES TESTED AT HYPERSONIC SPEED AT VARIOUS ANGLES OF ATTACK
N64-15634 07-03

PRESSURE FIELD DETERMINATION DURING DIFFRACTION ABOUT TRUNCATED WEDGE ZONE N64-28497 20-33

AERODYNAMIC CHARACTERISTICS OF WEDGE-SHAPED TWO-DIMENSIONAL AIRFOILS IN SUPERSONIC VISCOUS FLOW
AS-64-8 N64-32218 23-03

WEDGE FLOW
SHOCK-TUNNEL MEASUREMENTS OF UNDERSURFACE PRESSURE AND SHOCK ANGLE ON NONWEILER WING COMPARED WITH TWO-DIMENSIONAL FLOW ABOUT WEDGE
ARC-CP-684 N64-13391 04-03

TABULATION OF BASE FLOW PROPERTIES FOR CONES AND WEDGES
EOS-RN-17 N64-14100 05-02

NONLINEAR THEORY FOR SUPERCAVITATING FLOW PAST WEDGE IN LONGITUDINAL GRAVITY FIELD
AD-430045 N64-15945 07-02

SUPERSONIC FLOW PAST WEDGE, HYDRODYNAMIC EQUATIONS WITH RADIATION, AND PROTON SYNCHROTRON THEORY
FTD-TT-62-958/1&2 N64-20363 13-01

SUPERSONIC GAS FLOW PAST WEDGE N64-20364 13-02

SYMMETRIC WEDGE FLOW, PARTIALLY CAVITATING HYDROFOILS, UNSTEADY CAVITY FLOW, AND SUPERCAVITATING HYDROFOILS
AD-600144 N64-28026 20-11

PRESSURE BEHIND WEDGE IN SUPERSONIC FLOW WITH LAMINAR MIXING N64-28487 20-11

WEIGHT
PRELIMINARY WEIGHT ESTIMATES FOR ADVANCED DYNAMIC ENERGY CONVERSION SYSTEMS
ASD-TDR-63-705 N64-28158 20-06

CYLINDRICAL FILAMENT WOUND PRESSURE VESSELS REDESIGNED WITH ISOTENSOID DOME ENDS TO REDUCE WEIGHT AND STRESS FAILURE
AD-600215 N64-29614 21-34

WEIGHT ANALYSIS
WEIGHT CHANGES OF SOLIDS IN HIGH VACUUM AND HIGH TEMPERATURE ENVIRONMENTAL SIMULATION
NASA-TM-X-51166 N64-11340 02-19

NONUNIFORMLY-WEIGHTED ORTHONORMAL OVERDAMPED EXPONENTIAL APPROXIMATIONS
SM-45777 N64-17757 09-29

MINIMUM WEIGHT ANALYSIS OF STIFFENED CYLINDERS UNDER AXIAL COMPRESSION FOR LAUNCH VEHICLES
NASA-CR-53317 N64-17763 09-34

WEIGHT LOSS OF VOLATILE SOLIDS IN SPACE ENVIRONMENT N64-19361 12-19

WEIGHT LOSS OF PLATED METALS HEATED IN VACUUM
REPT.-64-233 N64-25326 17-18

ELECTRON IMPACT IONIZATION AND ATTACHMENT IN POLYATOMIC GASES, AND CORONA-INDUCED WEIGHT LOSS IN MYLAR AND H FILMS
ML-TDR-64-57 N64-26308 18-07

HEAT TRANSFER AND WEIGHT ANALYSIS OF MOVING-BELT RADIATOR SYSTEM FOR WASTE HEAT REJECTION IN SPACE
NASA-TN-D-1990 N64-26411 18-13

BIBLIOGRAPHY ON AERONAUTICAL WEIGHT ESTIMATION AND CONTROL N64-28303 20-34

LIMITING EQUILIBRIUM OF LOOSE MEDIUM WITH VARIABLE WEIGHT N64-28479 20-33

SHIELDING AND WEIGHT FRACTIONS OF NUCLEAR PROPULSION SYSTEM FOR MANNED CAPSULES
NASA-CR-52964 N64-33133 24-27

MISSION ANALYSIS FOR SOLAR HEATED HYDROGEN PROPULSION SYSTEM - SYSTEM WEIGHT ANALYSIS
NASA-CR-59332 N64-33809 24-27

WEIGHT FACTOR
MATERIAL SELECTION IN MINIMUM WEIGHT DESIGN OF

STRUCTURAL COMPONENTS
P-2729 N64-16246 08-34

CALCULATION OF WEIGHTING FACTOR OF LINEAR PULSE SYSTEM BY USING KNOWN PULSE TRANSFER FUNCTION OF CONTINUOUS ACTION SYSTEM N64-30225 22-20

SYNTHESIS OF AUTOMATIC CONTROL SYSTEMS WITH VARIABLE PARAMETERS BY FROZEN WEIGHTING FUNCTION N64-31857 23-09

WEIGHTLESS FLUID
BEHAVIOR OF LIQUIDS IN PERIODS OF WEIGHTLESSNESS DURING FREE-FALL TESTS, USING MERCURY OR WATER IN TEFLON CONTAINER
JPRS-23259 N64-14996 06-29

WEIGHTLESSNESS
PHYSIOLOGICAL EFFECTS OF WEIGHTLESSNESS IN SPACE FLIGHT N64-10265 01-16

EFFECT OF VIBRATION, ACCELERATION, WEIGHTLESSNESS & BIOLOGICAL RHYTHMS ON MAN IN SPACE
JPRS-18627 N64-10503 01-16

PHYSIOLOGICAL RESPONSES OF MAN UNDER CONDITIONS OF ALTERNATING OVERLOAD AND WEIGHTLESSNESS N64-10703 02-14

STRESS ON HUMAN BODY BY ACCELERATION AND WEIGHTLESSNESS
JPRS-20345 N64-11137 02-14

SPACE BIOLOGY - EFFECT OF RADIATION EXPOSURE AND WEIGHTLESSNESS ON ORGANISMS, AND SPACE FOOD STUDY N64-11667 03-16

EFFECT OF ACCELERATION STRESS & WEIGHTLESSNESS ON PHYSIOLOGICAL FUNCTIONS OF DOGS IN BALLISTIC ROCKET FLIGHTS N64-11860 03-16

PSYCHOLOGY OF WATER IMMERSION TECHNIQUE FOR SIMULATING WEIGHTLESSNESS - AVIATION MEDICINE
NADC-MA-6328 N64-15755 07-14

EFFECT OF WEIGHTLESSNESS ON SINGLE CELLS
NASA-CR-55656 N64-16326 08-16

WEIGHTLESSNESS EXPERIMENTS WITH VARIOUS ANIMALS
FTD-TT-63-618/1 N64-16379 08-16

EFFECTS OF TRANSIENT WEIGHTLESSNESS ON BINOCULAR DEPTH PERCEPTION
AMRL-TDR-63-134 N64-17509 09-14

PHYSIOLOGICAL REACTIONS OF COSMONAUTS DURING THE ACTION OF GRAVITY LOADS AND WEIGHTLESSNESS
JPRS-23917 N64-17738 09-14

EFFECTS OF TRANSIENT WEIGHTLESSNESS ON BRIGHTNESS DISCRIMINATION - VISUAL PERCEPTION
CAL-VH-8137-E N64-18937 11-14

HUMAN TOLERANCE TO EXTENDED PERIODS OF WEIGHTLESSNESS
JPRS-24308 N64-18973 11-14

WEIGHTLESSNESS IN SPACE - MANEUVERABILITY, ELASTIC COMPRESSION OF OBJECTS, AND BEHAVIOR OF LIQUIDS
FTD-TT-63-300/1&4 N64-19213 11-14

DONNING AND DOFFING OF SPACE SUIT IN WEIGHTLESS CONDITIONS
AMRL-TDR-64-32 N64-22382 15-16

BEHAVIOR OF BIOLOGICAL CELLS & SYSTEMS UNDER CONDITIONS OF WEIGHTLESSNESS
NASA-CR-56482 N64-22420 15-16

BIOMEDICAL RESEARCH IN ACCELERATION, IMPACT, WEIGHTLESSNESS, VIBRATION, AND EMERGENCY ESCAPE AND RESTRAINT SYSTEM - BIBLIOGRAPHY
CARI-63-30 N64-22711 15-16

REACTION OF HUMAN AND ANIMAL CARDIOVASCULAR SYSTEM UNDER CONDITIONS OF WEIGHTLESSNESS
NASA-TT-F-8895 N64-22941 16-14

EXPERIMENTAL BIOLOGY, IMMUNOLOGY, WEIGHTLESSNESS, AND ACCELERATION STRESS
FTD-TT-62-1164/1&2&4 N64-23454 16-16

ADAPTATION OF ORGANISMS TO WEIGHTLESSNESS AND MAXIMUM G-FORCES N64-23456 16-16

ASTRONAUT BEHAVIOR ABOARD SATELLITE - REACTION TO WEIGHTLESSNESS, ACCELERATION, AND RADIATION HAZARD N64-23638 16-16

MEDICAL AND BIOLOGICAL PROBLEMS OF SPACE FLIGHT AND EFFECT OF WEIGHTLESSNESS ON HUMANS N64-23639 16-14

ELECTROMYOGRAM MEASUREMENT OF BIOELECTRIC CURRENT AS MEASURE OF HUMAN MUSCLE TONUS AND EFFECTS OF WEIGHTLESSNESS AND INCREASED ACCELERATION STRESS N64-23661 16-16

PROBLEMS IN STUDYING EFFECT OF WEIGHTLESSNESS ON HUMANS N64-23738 16-16

HUMAN REACTION TO WEIGHTLESSNESS N64-23748 16-16

EXCITABILITY OF HUMAN VESTIBULAR ANALYZER UNDER CONDITIONS OF SHORT TERM WEIGHTLESSNESS N64-23749 16-16

OBTAINING OXYGEN BY ELECTROLYTIC DECOMPOSITION OF WATER UNDER CONDITIONS OF WEIGHTLESSNESS N64-23773 16-16

AEROSPACE MEDICINE - WEIGHTLESSNESS AND ARTIFICIAL GRAVITY EFFECTS ON PLANTS, ANIMALS, AND HUMAN PERFORMANCE
FTD-TT-64-140/1&4 N64-24012 16-16

PHYSIOLOGICAL DATA AND INSTRUMENT DEVELOPMENT FOR AUTOMATIC MEASUREMENT OF HEMODYNAMIC AND METABOLIC PARAMETERS ON PRIMATES DURING WEIGHTLESSNESS
NASA-CR-56348 N64-25768 17-16

PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT CONDITIONS - COSMIC RADIATION, WEIGHTLESSNESS, & OXYGEN SUPPLY
JPRS-25844 N64-27630 19-16

EFFECTS OF WEIGHTLESSNESS ON BLOOD CIRCULATION N64-27632 19-16

SENSITIVITY OF VESTIBULAR ANALYZERS AND SENSORY REACTIONS IN MAN DURING BRIEF WEIGHTLESSNESS N64-27633 19-16

TIME RESPONSE OF LIQUID-VAPOR INTERFACE AFTER ENTERING WEIGHTLESSNESS
NASA-TN-D-2458 N64-27759 19-11

PHYSIOLOGICAL RESPONSE OF HUMAN BODY DURING SPACEFLIGHT - EFFECTS OF WEIGHTLESSNESS
FTD-TT-64-258/1&2&4 N64-27844 19-16

REACTION OF CARDIOVASCULAR SYSTEM OF MAN AND ANIMALS UNDER WEIGHTLESSNESS N64-29090 21-16

IMPREGNATION, REPRODUCTION, AND DEVELOPMENT OF DROSOPHILA UNDER CONDITIONS OF WEIGHTLESSNESS N64-29092 21-16

SPEED, ACCELERATION, AND WEIGHTLESSNESS ASSOCIATED WITH AVIATION AND ASTRONAUTICS
FTD-MT-63-103 N64-29678 21-23

OBSERVATIONS DURING WEIGHTLESSNESS SIMULATION WITH SUBJECT IMMERSED IN ROTATING WATER TANK
NASA-TN-D-2195 N64-30094 21-14

CONFERENCE ON BIOASTRONAUTICS - WEIGHTLESSNESS, SPACECRAFT STERILIZATION, ASTHENOPIA IN RADAR OBSERVERS, & HYPOBARIC ADAPTATION BY PERSONNEL
FTD-TT-64-556/1&2&3&4 N64-30163 21-29

PROBLEMS IN AEROSPACE MEDICINE - WEIGHTLESSNESS, RADIATION, METEORITE IMPACT, ARTIFICIAL ATMOSPHERE, DARKNESS, SILENCE, AND LOW TEMPERATURE
FTD-TT-64-203/1 N64-31073 22-16

HUMAN PERFORMANCE UNDER EXTENDED WEIGHTLESSNESS DURING VOSTOK II SPACECRAFT FLIGHT

FTD-TT-64-147/1&4 N64-32457 22-32

WELDED JOINT
ARGON ARC, SPOT, AND ROLLER WELDING OF NIOBIUM ALLOYS, AND PROPERTIES OF WELDED JOINTS
JPRS-22597 N64-12702 04-17

EVALUATION OF WELDED CONNECTIONS IN AIRBORNE ELECTRONIC EQUIPMENT
NADC-EL-61121 N64-14637 06-17

WELDING TECHNIQUES FOR INTERCONNECTING SOLAR CELLS
NASA-CR-53077 N64-15963 07-17

EXTERNAL-LOAD TEST OF WELDED JOINTS BETWEEN CYLINDRICAL PRESSURE VESSELS N64-16857 08-33

CRACK FORMATIONS IN WELDED JOINTS OF HIGH STRENGTH STEEL - BIBLIOGRAPHY
DMIC-197 N64-20378 13-18

ELECTRON BEAM WELDING - JOINT FORMATION IN WELDING THICK MATERIALS N64-24256 17-18

FABRICATION OF PRODUCTION-SIZE ROLL-WELDED CORRUGATED SANDWICH PANELS N64-30077 21-17

HEAT TREATMENT FOR IMPROVING MECHANICAL PROPERTIES OF WELDED JOINTS IN HIGH STRENGTH ALUMINUM ALLOYS
REPT.-2-64-16 N64-32622 23-18

CREEP AND NOTCH STRENGTH OF ALUMINUM WELDED JOINTS AND FILLER METALS FOR ALUMINUM ALLOYS
NASA-CR-59243 N64-33289 24-18

WELDED STRUCTURE
ELECTROSLAG WELDING OF SHIP PARTS WITHOUT SUBSEQUENT HEAT TREATMENT
JPRS-21485 N64-10325 01-17

ELECTRON BEAM & ELECTROSLAG REFINING TO IMPROVE QUALITY OF STEELS & ALLOYS FOR WELDMENTS
JPRS-18490 N64-10770 02-18

RUPTURE TEST OF WELDED TITANIUM ALLOY ROCKET MOTOR CASE
A515 N64-12153 03-33

EFFECTS OF WELDED CONSTRUCTION ON FATIGUE STRENGTH OF NACELLE FRAMES OF B-58 AIRCRAFT
FZM-4-1147 N64-20074 13-18

ANNOTATED BIBLIOGRAPHY ON PRINTED CIRCUITS AND WELDED ELECTRONIC MODULES
REPT.-3-35-64-2 N64-21148 14-09

HYDROBURST TESTS OF SOLID PROPELLANT ROCKET MOTOR CASE OF MARAGING STEEL WITH WELDED JOINTS N64-24357 17-17

MECHANICAL PROPERTIES OF WELDED HIGH STRENGTH TITANIUM ALLOY SHEET
NASA-CR-56787 N64-25506 17-18

COMPATIBILITY AND CORROSION RATES OF WELDED ALLOYS WITH HIGH ENERGY OXIDIZERS - CHLORINE TRIFLUORIDE AND PERCHLORYL FLUORIDE
ML-TDR-64-22 N64-26689 18-07

DELAYED CRACKING IN SEAM WELDED STRUCTURES OF UNALLOYED TITANIUM SHEET
DMIC-MEMO-191 N64-27723 19-18

WELDING
SA DIFFUSION WELDING
X-RAY SPECTROSCOPY AND SPECTROGRAPHY FOR CONTROL OF ALUMINUM, TITANIUM, AND STEEL WELDING
OTS-63-22058 N64-10589 01-17

BRAZING AND WELDING OF SINTERED ALUMINUM POWDER
JPRS-18187 N64-10750 02-18

COLD WELDING OF PLASTIC METALS
JPRS-19103 N64-10815 02-18

WELDING CHARACTERISTICS OF NIOBIUM ALLOYS AT ELEVATED TEMPERATURES
ASD-TDR-63-843 N64-11371 02-18

MECHANICAL PROPERTY IMPROVEMENT IN WELDED ALUMINUM ALLOYS - WELDING TECHNIQUES
AD-418106 N64-11373 02-18

EFFECT OF WHEEL EXPULSION FROM SEAM WELDING ON AMS 4901 TITANIUM ALLOY
A246 N64-11926 03-18

WELDING TESTS OF INCONEL AT ROOM TEMPERATURE BY AGE CONDITION METHOD
A249 N64-11927 03-18

EVALUATION OF INCONEL WELDING OF AGE HARDENABLE NICKEL-CHROMIUM ALLOY AT ROOM TEMPERATURE
A250 N64-11928 03-18

WELDING TESTS ON MARAGING STEELS
DMIC-MEMO-182 N64-12072 03-18

WELDABLE HIGH-STRENGTH ALUMINUM ALLOYS - LITERATURE REVIEW AND BIBLIOGRAPHY
NASA-CR-52372 N64-13067 04-18

REPAIR WELDING OF HEAT-TREATED LOW ALLOY STEEL WITHOUT SUBSEQUENT HEAT TREATMENT & EFFECT ON MECHANICAL PROPERTIES
FTDM-3094 N64-13123 04-18

WELDING TEST AND MECHANICAL PROPERTIES OF STEEL ALLOY
A240 N64-13250 04-18

TITANIUM & TITANIUM ALLOYS - WELDING TECHNIQUES & ELECTROSLAG MELTING
JPRS-22492 N64-13417 05-01

WELDING TITANIUM AND ITS ALLOYS BY DIFFUSION UNDER VACUUM N64-13420 05-17

CORROSION STABILITY OF TITANIUM ALLOYS JOINED BY DIFFUSION WELDING UNDER VACUUM N64-13421 05-07

EFFECT OF SILVER ADDITION ON WELDING OF ALUMINUM-MAGNESIUM ALLOYS
ARL/MET-18 N64-14052 05-18

NICKEL AND NICKEL ALLOY WELDING - TECHNIQUES, PROCESSES, JOINT CONSTRUCTION, MATERIALS, AND METHODS
JPRS-22945 N64-15675 07-18

ALUMINUM SHEET PLATE WELDING TOOLS AND TECHNIQUES
NASA-SP-5003 N64-16859 08-17

WELDING OF REFRACTORY METALS FOR AEROSPACE APPLICATIONS
IR-5 N64-16958 09-17

WELDING TURBINE COMPONENTS FABRICATED FROM HEAT RESISTANT ALLOYS N64-17090 09-17

MARTENSITIC STEEL WELDING N64-17093 09-17

EVALUATION OF WELDMENTS FABRICATED FROM MATERIAL PRECOATED WITH RUST PREVENTATIVE
A462 N64-17129 09-19

DETERMINATION OF RESISTANCE WELDABILITY OF TZM MOLYBDENUM ALLOY THIN SHEET
A475 N64-17133 09-17

OPTIMUM SYSTEM OF WELDING CONTROLS TO INTEGRATE TRAVEL SPEED & WIRE FEED IN METAL INERT GAS WELDING PROCESS
NASA-CR-53246 N64-17572 09-17

PLASMA WELDING & METAL CLEANING BY PLASMA ARCS
RSIC-123 N64-17655 09-24

MACHINE CONTROLLED WIDE-WEAVE TECHNIQUE FOR MULTIPASS VERTICAL WELDING OF THICK ALUMINUM ALLOYS
NASA-CR-55902 N64-17693 09-17

INFLUENCE OF ALLOYING ELEMENTS ON CONTINUOUS COOLING TRANSFORMATION BEHAVIOR AND WELDABILITY OF BINARY & TERNARY IRON ALLOYS
C59/12/63 N64-17800 09-18

KINETICS OF AUSTENITE GRAIN GROWTH IN ELECTROSLAG WELDING OF AUSTENITIC STEELS
JPRS-24278 N64-18800 11-18

WELDABILITY OF NICKEL-COBALT-MOLYBDENUM MARAGING STEEL SHEET
SM-44648 N64-19024 11-18

AUTOMATIC DC TIG WELDING OF SATURN S- IVB FITTINGS TO DOMES
SM-44652 N64-19025 11-17

ELECTROSLAG WELDING PROCESS
JPRS-24559 N64-20015 13-17

TENSILE, IMPACT, AND AXIAL FATIGUE PROPERTIES OF STEEL 8-58 WING PYLON BOXES AFTER REPAIR WELDING
FGT-2956 N64-20038 13-18

ENERGY LOSSES AND CHARACTERISTICS OF ELECTRIC ARC DISCHARGE FOR WELDING APPLICATIONS
FTD-TT-62-1818/1&2 N64-20310 13-17

WELDING AND BRAZING OF BERYLLIUM AND ITS ALLOYS - BIBLIOGRAPHY
SB-63-61 N64-20547 13-18

WELDING OF TITANIUM ALLOYS N64-20655 13-17

WELDING OF NIOBIUM BY VACUUM ARC AND ELECTRON BEAM MELTING N64-20656 13-17

IMPERFECTIONS OF 2319 ALUMINUM ALLOY WELD WIRE
NASA-CR-56100 N64-20687 13-18

WELDABILITY AND THERMOSTABILITY OF REFRACTORY ALLOYS
NASA-CR-56136 N64-20725 13-18

VISCOSITY AND ELECTRICAL CONDUCTIVITY OF FLUXES FOR ELECTROSLAG WELDING
JPRS-24769 N64-20830 14-19

WELDING PROCESSES FOR FABRICATION OF TITANIUM ROCKET MOTOR CASE
NAL-TR-766.2/1-14, VOL. III N64-20910 14-17

EFFECT OF CLOSURE WELD CONFIGURATION ON FATIGUE STRENGTH OF OMEGA SEALS
KAPL-2000-21 N64-21740 15-18

SOVIET RESEARCH IN WELDING
JPRS-24940 N64-21862 15-17

DROP TRANSFER OF ELECTRODE METAL DURING ELECTROSLAG WELDING N64-21864 15-17

EVALUATION OF DUCTILE FILLER METALS FOR WELDING INCONEL
A735 N64-22580 15-17

RESISTANCE WELD EVALUATION OF TANTALUM ALLOY
A749 N64-22591 15-17

MICROSCOPIC INSPECTION OF BRAZING AND WELDING JOINTS, AND STRUCTURAL DYNAMICS OF TRAVELING WAVE TUBE
AD-601466 N64-22703 15-17

WELDING OF AUSTENITIC HEAT RESISTANT STEELS AND ALLOYS USED IN BUILDING GAS TURBINES
JPRS-25100 N64-22736 16-17

INTERCONNECTIVE WIRE WELDING IN ELECTRONIC MODULES
NASA-TN-D-2321 N64-23235 16-09

ELECTRON BEAM, DIFFUSION, AND PRESS WELDING APPLIED TO ELECTROVACUUM APPARATUS - ALUMINUM, MAGNESIUM, AND TITANIUM ALLOYS
FTD-TT-62-1247/1&2 N64-24252 17-18

DOUBLE-SIDED WELDING AND METHOD OF DOUBLE PASS, & ONE-SIDE ARGON-SHIELD WELDING OF STEELS N64-24254 17-18

ALLOYING OF AUSTENITIC STEELS AND SEAMS WELDED ON STEELS WITH BORON TO INCREASE HEAT RESISTANCE N64-24255 17-18

MOLTEN-SLAG ARCLESS ELECTRIC WELDING OF VT5-1 TITANIUM ALLOY N64-24258 17-18

PRESS WELDING OF ROLLED SECTIONS OF ALUMINUM-MAGNESIUM ALLOYS N64-24259 17-18

SUBMERGED ARC AND ELECTROSLAG WELDING FOR THICK TITANIUM ALLOY PLATE
DMIC-MEMO-188 N64-24334 17-18

WELDING OF MARAGING STEEL N64-24353 17-18

WELDABILITY AND TEMPERATURE STABILITY STUDIES OF REFRACTORY METAL ALLOYS FOR ALKALI-METAL SPACE ELECTRIC POWER SYSTEMS
NASA-CR-54088 N64-25764 17-18

METALLURGICAL TECHNOLOGY OF BRAZING AND WELDING OF BERYLLIUM
NASA-TT-F-9021 N64-27230 19-18

MECHANICAL PROPERTIES OF WELDED FOUNDRY DEFECTS IN A-356 ALUMINUM ALLOY CASTINGS
SM-45949 N64-27375 19-18

ELECTROSLAG PROCESS WELDING & REMELTING
JPRS-25757 N64-27617 19-17

OSCILLATOR FOR CONTROL OF BEAD WIDTH DURING WELDING OPERATION
NASA-CR-56654 N64-27874 20-17

EFFECT OF INCREASED CARBON AND ALLOY CONTENT ON HYDROGEN COLD CRACKING OF WELDED WROUGHT STEEL
C59/16/64 N64-28143 20-18

WELDING HIGH STRENGTH ALUMINUM ALLOYS IN PLATE THICKNESSES SUITABLE FOR APPLICATION AT CRYOGENIC TEMPERATURES
NASA-CR-58616 N64-28846 20-18

NEW HIGH STRENGTH STEELS WITH GOOD WELDING AND MECHANICAL PROPERTIES N64-29037 21-18

ULTRASONIC WELDING EQUIPMENT FOR JOINING REFRACTORY METALS AND SUPERALLOYS
RR-64-53 N64-29298 21-17

HIGH FREQUENCY RESISTANCE WELDING PROCESS FOR SPACE VEHICLE AND LAUNCH VEHICLE MATERIALS
NASA-CR-58562 N64-29566 21-17

PARTIAL-PENETRATION WELDING OF ALUMINUM ALLOY STRUCTURES FOR RETENTION OF COMPRESSIVE STRENGTH
NAVWEPS-8495 N64-29623 21-34

WELDING TECHNIQUES AND FILLER METALS FOR HIGH STRENGTH ALUMINUM ALLOYS
NASA-CR-58536 N64-29705 21-18

EXPLOSIVE WELDING AND FORMING TO ACHIEVE LEAKTIGHT ROLLED JOINTS
EUR-1818.I N64-29778 21-17

CERAMIC FLUXES IN WELDING OF ALLOYED STEELS
JPRS-26638 N64-30656 22-17

METALLURGY, MECHANICAL PROPERTIES, AND WELDING PROPERTIES OF MARAGING STEEL
ASD-TDR-62-996 N64-30923 22-18

WELDING PROCEDURES AND FILLER MATERIALS FOR JOINING MARTENSITIC AND BAINITIC STEEL
ML-TDR-64-255 N64-30933 22-17

WELDING OF REFRACTORY METALS
AD-421905 N64-31258 22-18

WELDING OF REFRACTORY METAL ALLOYS FOR USE IN ALKALI-METAL SPACE ELECTRIC POWER SYSTEMS
NASA-CR-54166 N64-31455 23-18

WELDING CHARACTERISTICS OF SKIN MATERIALS FOR SUPERSONIC TRANSPORTS
BNJV-D-D-1 N64-32286 23-18

EFFECT OF WELDABLE LEAD MATERIALS ON PERFORMANCE OF ELECTRONIC COMPONENTS
AD-602047 N64-32411 23-17

ALUMINUM WELDING TECHNIQUES FOR SPACE VEHICLE APPLICATIONS
NASA-SP-5009 N64-32642 23-17

FABRICATION OF REFRACTORY METALS AND ALLOYS - METAL FORMING, DEPOSITION, COLD WORKING, WELDING, AND MACHINING TECHNIQUES N64-32768 24-17

PLASMA TORCH CLEANING OF ALUMINUM ALLOY JOINTS BEFORE WELDING
MRI-106.04 N64-32943 24-17

ALLEVIATION OF DIE WELDING DURING PIANO WIRE DRAWING BY PICKLING IN DILUTE NITRIC ACID SOLUTION
NOTS-TP-3636 N64-32960 24-17

WELDABILITY OF STEELS CONTAINING NICKEL, CHROMIUM, AND MOLYBDENUM - EFFECTS OF COMPOSITION ON PHASE TRANSFORMATIONS AND TOUGHNESS OF WELDING ZONES
AD-600933 N64-33794 24-18

WELD HEAT-AFFECTED ZONE OF CAST STEEL - EFFECT OF THERMAL CYCLING ON IMPACT STRENGTH
WVT-ID-6316 N64-33898 24-18

EXPLOSIVE FORMING & WELDING OF HONEYCOMB SANDWICH PLATE
NASA-CR-59395 N64-33922 24-17

WELDING MACHINE
HIGH TEMPERATURE STEEL STRUCTURE WELDING AND WELDING MACHINES
JPRS-21896 N64-10846 02-18

WELL
WELL DRILLING INTO EARTH CRUST
JPRS-18130 N64-10743 02-12

SUPERDEEP WELL FOR STUDY OF EARTHS CRUST IN AZERBAYDZHAN
JPRS-19264 N64-11065 02-12

WEST FORD PROJECT
REFLECTION TYPE POLARIZER FOR USE ON WEST FORD CASSEGRAINIAN ANTENNAS
ESD-TDR-63-666 N64-25953 18-09

WEST FORD ORBITAL SCATTER COMMUNICATIONS SYSTEM
ESD-TDR-63-591 N64-26266 18-08

COLLISION OF WEST FORD NEEDLES WITH MICROMETEORITES
RSIC-235 N64-28530 20-05

BEACON TRACK & PERFORMANCE PAYLOAD TELEMETRY SYSTEM FOR WEST FORD PROJECT
ESD-TDR-64-21 N64-30773 22-08

LONG RANGE COMMUNICATION BY REFLECTIONS FROM ORBITING METALLIC FIBERS - WEST FORD PROJECT
AD-443271 N64-32868 24-08

WEST GERMANY
TELLUROMETRIC MEASUREMENTS FOR GEODETIC REFERENCE SYSTEM, AT HEPPEN AND GOETTINGEN, WEST GERMANY
N64-16207 08-15

DEMAND OF PROFESSIONAL PILOTS WITHIN GERMAN FEDERAL REPUBLIC
DVL-345 N64-19800 12-01

WET CELL BATTERY
LIQUID AMMONIA FUZE BATTERY CONTAINING MAGNESIUM ANODE AND METADINITROBENZENE CATHODE DEPOLARIZER
N64-17421 09-06

BATTERIES USING LIQUID AMMONIA AS ELECTROLYTIC SOLVENT WITH MAGNESIUM ANODE AND MERCURIC SULFATE OR SILVER CHLORIDE CATHODES N64-17422 09-06

WETTING
EFFECT OF PARTLY FLUORINATED ADDITIVES ON WETTABILITY OF SOLID POLYMERS - ORGANOPHILIC/ ORGANOPHOBIC BALANCE OF SOLUTE
NRL-5952 N64-11176 02-07

WETTING CARBIDE ALLOYS OF MOLYBDENUM & TITANIUM WITH NICKEL AND FORMING ALUMINUM NITRIDE BY POWDER METALLURGY
JPRS-22655 N64-13697 04-01

MOLTEN NICKEL WETTABILITY OF PRESSED POWDERED CARBIDE ALLOYS - NIOBIUM & VANADIUM CARBIDES, AND NIOBIUM & TITANIUM CARBIDES
N64-13699 05-19

ACCELERATION & RETARDATION OF DELAYED FAILURE IN BERYLLIUM-COPPER WETTED WITH MERCURY
IITRI-B183-15 N64-14358 06-18

CONTACT POTENTIAL METHOD FOR STUDY OF AUTOPHOBIC LIQUIDS ON PLATINUM SURFACE
NRL-6020 N64-18224 10-23

POWDER METALLURGY - EFFECT OF INTERPHASE SURFACE ENERGY ON WETTING PROCESS N64-22173 15-17

WETTING OF SURFACE OF SEMICRYSTALLINE ZINC WITH MERCURY
FTD-TT-63-384/1&2 N64-22350 15-11

WETTING AND BONDING BETWEEN METALS AND OXIDES - ALUMINUM OXIDE AND NICKEL SYSTEM
AMRA-CR-63-01/6 N64-22709 15-17

WETTING OF SOLID SURFACES BY LIQUID METALS
N64-23317 16-13

INDICATIONS OF LEVEL, WETTING, & BUBBLES IN LIQUID SODIUM IN STAINLESS STEEL CONTAINER
EUR-1823.D N64-28136 20-13

WETTING BEHAVIOR OF EPOXY RESINS ON GLASS FILAMENTS - FILAMENT WINDING
NRL-6140 N64-29961 21-19

WETTING BEHAVIOR DIFFERENCES OF INDIVIDUAL LIQUIDS REGARDING VARIOUS SOLID SURFACES
NRL-5985 N64-31925 23-07

WHEATSTONE BRIDGE
RESISTIVE-WHEATSTONE BRIDGE LIQUID DISPLACEMENT TRANSDUCER USED TO MONITOR LIQUID SURFACE OSCILLATIONS
NASA-CR-56551 N64-23527 16-09

PORTABLE TRANSISTORIZED WHEATSTONE BRIDGE FOR MEASUREMENT OF EXPANSION
FTD-TT-64-545 N64-24327 17-09

WHEEL
CENTRIFUGAL COMPRESSOR WHEEL AND CASCADE FLOW STUDIES FOR POWER MACHINE CONSTRUCTION
FTD-TT-62-1816/1&2&4 N64-23494 16-01

GEOMETRY AND OPERATIONAL EFFICIENCY OF CENTRIFUGAL COMPRESSOR WHEELS N64-23495 16-17

INFLUENCE OF NUMBER OF VANES ON CENTRIFUGAL WHEEL WITH SINGLE-STAGE CASCADE N64-23496 16-17

EFFICIENCY OF CENTRIFUGAL COMPRESSOR WHEELS WITH TWO-STAGE VANE CASCADE N64-23497 16-17

LOCOMOTION IN SIMULATED LUNAR SOIL OF CIRCULAR AND NONCIRCULAR WHEELS
ADR-04-05-63.2 N64-26312 18-17

FILTER WHEEL SOLAR SIMULATOR N64-32740 24-06

WHIRL INSTABILITY
GEOMETRY EFFECTS ON HALF FREQUENCY WHIRL IN GAS LUBRICATED JOURNAL BEARINGS
ASME PAPER 63-LUBS-2 N64-19966 12-17

WHISKER
STRENGTH DEPENDENCE OF LITHIUM FLUORIDE FRACTURE WHISKERS ON SIZE
JPRS-17725 N64-10714 02-19

MICRO X-RAY DIFFRACTION OF WHISKERS GROWN FROM FERROUS CHLORIDE SOLUTION
ASD-TDR-63-643 N64-11459 03-25

STRENGTH PROPERTIES OF METAL CRYSTALS - PLASTIC DEFORMATION & DISLOCATION OF WHISKER METALS
JPRS-22445 N64-12012 03-18

BONDING IN OXIDE FIBER WHISKER REINFORCED METAL MATERIALS
ANRA-CR-63-01/2 N64-12044 03-19

FORMATION OF REFRACTORY FIBERS OR WHISKERS BY VAPOR PHASE GROWTH - ALUMINUM HALIDE OXIDATION, ALUMINUM OXIDE REDUCTION, AND RECRYSTALLIZATION
ANRA-CR-63-03/1 N64-13037 04-18

FIELD ION MICROSCOPY OF IRON WHISKERS
ASD-TDR-63-138, PT. 2 N64-13641 05-18

SURFACE SUBSTRUCTURE OF IRON WHISKER SPECIMENS - ELECTRON SHADOWGRAPHS AND MICROGRAPHS
ASD-TDR-63-4136 N64-15094 07-25

ALUMINA WHISKERS AND WHISKER REINFORCED COMPOSITES USED AS FIBER REINFORCED MATERIALS
AD-432121 N64-16833 08-18

DIVERGENT X-RAY PHOTOGRAPHY OF IRON WHISKERS
RTD-TDR-63-4198 N64-16873 08-25

WHISKER STRENGTH AND CRYSTAL STRUCTURE OF BORON CARBIDE FILAMENTS
NASA-CR-56230 N64-24112 16-19

METAL WHISKERS - INDUCED GROWTH, GROWTH MECHANISM, ENERGY SOURCES FOR GROWTH, MAGNETIC PROPERTIES, AND RADIATION EFFECTS N64-28218 20-25

METHOD FOR OBSERVING TRANSITION GROWTH OF GRAPHITE WHISKERS N64-28219 20-25

CANDIDATE MATERIALS ANALYZED FOR AVAILABILITY, BONDABILITY, & THERMAL EXPANSION, AND STRENGTH TO WEIGHT RATIO OF WHISKER COMPOSITES
WVT-RR-6411 N64-28825 20-17

CONTINUOUS FORMATION OF REFRACTORY FIBERS AND WHISKERS BY VAPOR PHASE PROCESS
ANRA-CR-63-03/4 N64-30819 22-07

WHISTLER
GEOPHYSICAL DATA - ATMOSPHERICS, WHISTLERS, AND SOLAR RADIO EMISSIONS N64-12500 04-12

CLASSIFICATION OF NATURALLY OCCURRING VERY LOW FREQUENCY NOISES - SPECTROGRAM EXAMPLES OF RADIO NOISE & WHISTLERS
NBS-TN-166 N64-13905 05-12

DIRECTION-OF-ARRIVAL OF WHISTLERS - MICROWAVE TELEMETRY STUDY OF ATMOSPHERICS
AFCRL-63-773 N64-19278 11-08

WHISTLER OBSERVATIONS FROM LABRADOR TO ANTARCTICA N64-19279 11-08

TRANSFORMATION OF FAST CYCLOTRON WAVE TO BACKWARD WHISTLER MODE IN EXOSPHERE
AFCRL-64-80 N64-19652 12-12

WAVE DISPERSION IN COLD MAGNETOPLASMA FROM HYDRODYNAMIC TO WHISTLER FREQUENCIES N64-20433 13-24

PROPAGATION OF WHISTLERS N64-20765 14-12

WHISTLERS OBSERVED BY VANGUARD III SATELLITE
NASA-TN-D-2313 N64-24587 17-08

WHISTLER RECORDINGS TO TEST VALIDITY OF MODEL MAGNETOSPHERIC ELECTRON DENSITY DISTRIBUTIONS
01-82-0245 N64-26613 18-12

RELATION BETWEEN LIGHTNING DISCHARGES AND DIFFERENT ATMOSPHERIC WHISTLERS
AFCRL-64-488 N64-26924 18-12

OBSERVATIONS OF WHISTLERS AND IONOSPHERIC NOISE IN VERY LOW FREQUENCY RANGE AT AURORAL ZONE STATION
AFCRL-64-269 N64-27704 19-08

WHITE DWARF STAR
SHOCK RELATIONS AND HEATING EFFECTS IN VERY DENSE, VERY-HIGH-TEMPERATURE GAS AND SIGNIFICANCE IN SUPERNOVA PHENOMENON AND WHITE DWARF STARS
AFCRL-63-898 N64-12298 03-23

WHITE NOISE
AUDITORY PAIN THRESHOLDS FOR INTERMITTENT WHITE NOISE
AD-236942 N64-15889 07-16

WIDE ANGLE LENS
PERFORMANCE OF ULTRAWIDE ANGLE LENSES
WRE-TN-ISD-44 N64-23604 16-23

FLAT FIELD, WIDE ANGLE, REFLECTING TELESCOPE FOR USE IN 8-14 MICRON WAVELENGTH RANGE OF INFRARED SPECTRUM
WRE-TN-CPD-79 N64-28127 20-15

DISTORTION CORRECTION IN WIDE ANGLE LENS COMPOSED OF NEGATIVE COMPONENTS N64-31868 23-23

WIDEBAND COMMUNICATION
DESIGN OF WIDEBAND FREQUENCY MODULATED DEMODULATOR USED AT ANDOVER FOR TELSTAR SATELLITE COMMUNICATIONS TESTS N64-10881 02-08

FREQUENCY MODULATOR WITH WIDEBAND CHARACTERISTICS SUITABLE FOR TELEPHONE CHANNELS
RAE-TRANS-1048 N64-11589 03-08

WIDE-BAND BEAM-TYPE PARAMETRIC AMPLIFIER
RADC-TDR-63-444 N64-12211 03-09

WIDEBAND MICROWAVE PHOTOTUBE FOR LASER COMMUNICATIONS SYSTEMS N64-12568 04-25

LINEAR DATA-PROCESSING ANTENNA ARRAYS USING WIDE-BAND ELEMENTS AND MATCHED FILTER
RADC-TDR-63-437 N64-12589 04-08

WIDEBAND MAGNETIC TAPE RECORDING TECHNIQUES
TDR-269/9990/-1 N64-17367 09-23

RESTORATIVE PRINCIPLES FOR WIDEBAND COMMUNICATION SYSTEMS
ICS-63-TR-201 N64-24089 16-08

WIDEBAND, HIGH GAIN, VARIABLE TIME DELAY ANTENNAS
RADC-TDR-64-218 N64-25240 17-08

WIENER-LEVY PROCESS
ASYMPTOTIC EXPANSIONS FOR BEHAVIOR OF OPTIMAL SEQUENTIAL TEST FOR SIGN OF MEAN DRIFT OF WIENER-LEVY PROCESS AND MEAN OF NORMAL DISTRIBUTION
TR-90 N64-13117 04-23

WIND
WINDS AND SURFACE CURRENTS IN COASTAL CHINA WATERS
JPRS-20031 N64-10460 01-21

WINDSPEED ANALYSIS FOR POSSIBLE WINDPOWER UTILIZATION
TN-WP-24-63 N64-13323 04-21

BIBLIOGRAPHY OF WIND WAVES AND SEA SLOPE MEASUREMENT
SRB-63-4 N64-15981 07-12

ELLIPSOIDAL WIND DISTRIBUTIONS N64-17112 09-21

SONIC BOOM WAVES IN STRONG WINDS
FFA-97 N64-26294 18-04

BALANCE OF INITIAL WIND AND PRESSURE FIELD DATA FOR TWO-LAYER ATMOSPHERE MODEL
AFCRL-64-506 N64-26875 18-21

DYNAMIC-KINEMATIC METHOD FOR COMPUTING VERTICAL MOTION VELOCITY FROM WINDS N64-27402 19-21

WIND AND TEMPERATURE FIELDS OF STRATOSPHERE
FR-2581 N64-28010 20-21

POWER DENSITY AND STORAGE CAPACITY IN STORAGE AND CONVERSION SYSTEMS FOR WIND AND SOLAR ENERGY N64-29486 21-06

MOTION AND NET DRAG COEFFICIENTS OF FREE MOVING SPHERES - BALLOON WIND SENSORS
NASA-TM-X-53089 N64-31549 23-04

ACOUSTIC STUDY OF PIPE ARRAY FOR REDUCTION OF WIND NOISE N64-32257 23-08

WIND DATA FOR NIKE-APACHE LAUNCHINGS AND BALLISTIC STUDIES
ERDA-162 N64-32315 23-21

WIND DATA FOR ROCKET LAUNCHING & BALLISTIC STUDIES
ERDA-164 N64-32317 23-21

WIND DATA FOR BALLISTIC MISSILE REENTRY SYSTEMS - ATHENA ROCKET
ERDA-119 N64-32422 23-21

CONTINUOUS RECORDING INSTRUMENT FOR WAVE PATTERNS ON WIND-AGITATED WATER SURFACE
AECL-2051 N64-32660 23-15

TROPICAL UPPER AIR STUDIES - PERSISTENCE OF DAILY TROPICAL STRATOSPHERIC WINDS
GMI-2562 N64-33315 24-21

WIND CIRCULATION
TIROS OBSERVATIONS OF SUMMER CIRCULATION AND WEATHER PATTERNS OF THE EASTERN NORTH PACIFIC
HIG-40 N64-14137 05-21

APPLICABILITY OF NORMAL DISTRIBUTION LAW TO WIND CIRCULATION IN ATMOSPHERE N64-15410 07-21

THEORY OF SEA BREEZE AT AND NEAR BOMBAY N64-16308 08-21

WIND CIRCULATION MODEL FOR EXPLAINING BAY OF BENGAL MONSOONS N64-16310 08-21

EFFECT OF WIND CIRCULATION ON DIFFUSION OF AIR POLLUTION EMITTED FROM CONTINUOUSLY ACTIVE SOURCE N64-20207 13-21

EFFECT OF NEAR MOUNTAIN RANGES ON PERTURBATIONS IN WIND FIELD IN TULAROSA BASIN, NEW MEXICO
ERDA-157 N64-27866 19-21

TROPOSPHERIC CIRCULATION PATTERNS IN EQUATORIAL REGION N64-27936 20-21

STRATOSPHERIC CIRCULATION AND DIFFERENCES IN TEMPERATURES, GEOPOTENTIALS, AND MEAN VECTOR WINDS OVER BERLIN
QTSR-2 N64-32091 23-21

STATISTICAL METHODS APPLIED TO FREE ATMOSPHERE WIND CIRCULATION
FTD-TT-64-357/1&2 N64-32237 23-21

CONVECTIVE STORM MOTION CORRELATION WITH UPPER WINDS FOR CASES OF SMALL CHANGE OF WIND DIRECTION WITH HEIGHT
REPT.-21 N64-32935 24-21

WIND CIRCULATION PREDICTION AND DATA PROCESSING SYSTEM FOR CHEMICAL-BIOLOGICAL WARFARE
GCA-TR-64-3-G N64-33842 24-12

WIND DIRECTION
SEMICONDUCTOR VARIANT OF INTEGRAL FLUCTUATION METER FOR MEASURING WIND DIRECTION N64-20221 13-09

INERTIA CHARACTERISTICS OF AIR CURRENT DIRECTION SENSORS N64-20222 13-15

AERODYNAMIC INVESTIGATION OF AIR CURRENT DIRECTION SENSOR TO DETERMINE OPTIMUM INERTIA CHARACTERISTICS N64-20223 13-02

WIND DIRECTION COMPONENT PROFILES FOR CAPE KENNEDY
NASA-TM-X-53009 N64-20581 13-21

SYNCHRO RECEIVER AND APPLICATION TO NUCLEAR REACTOR AND WIND DIRECTION INDICATORS N64-31479 23-17

COMPUTER ANALYSIS OF IONOSPHERIC WIND DATA - DRIFT DIRECTION AND VELOCITY IN E LAYER REFLECTIONS OVER PUERTO RICO
AFCRL-64-603 N64-31992 23-12

WIND EFFECT
WIND TUNNEL INVESTIGATION OF GROUND WIND LOADS ON AXISYMMETRIC LAUNCH VEHICLES
NASA-TN-D-1893 N64-10932 02-03

COMPUTER PROGRAM FOR CALCULATING WIND COMPENSATION FOR MISSILES IN FREE FLIGHT
SWC-TDR-63-67 N64-15078 07-21

MATHEMATICAL DESCRIPTION OF VECTOR WIND SPIRAL IN ATMOSPHERIC BOUNDARY LAYER
ERDAA-MET-1-64 N64-20306 13-21

GROUND WIND LOADS IN LAUNCH VEHICLES
NASA-TM-X-54024 N64-20550 13-10

RESPONSE OF SPHERICAL BALLOON TO WIND GUSTS
NASA-TM-X-51764 N64-24031 16-04

DOWNWIND DEPOSITION OF GLASS BEADS EJECTED FROM AIRCRAFT FLYING AT LOW ALTITUDE
SES-TN-136 N64-25876 18-21

EFFECT OF LOCAL WINDS ON FALLOUT
REPT.-1 N64-26317 18-21

RIGID BODY WIND RESPONSES FOR USE IN IN-FLIGHT LOAD CALCULATIONS
NASA-TM-X-53042 N64-27238 19-02

LATERAL VIBRATIONS OF AIRCRAFT RESULTING FROM WIND
FTD-MT-63-118 N64-28168 20-04

EFFECTS OF WINDS ON SOUNDING ROCKET FLIGHT PATH
CARDE-TN-1613/64 N64-29355 21-13

WIND EFFECTS ON DISPERSION FOR VERTICAL PROBE ROCKETS
ATL-TDR-64-13 N64-32046 23-12

WIND EFFECTS ON ACOUSTIC FOCUSING N64-32262 23-23

HYDRODYNAMIC EQUATIONS FOR HORIZONTAL WIND EFFECTS ON DISPERSION AND AMPLITUDE OF ATMOSPHERIC ACOUSTI GRAVITY WAVES
RAD-TR-64-33 N64-33930 24-23

WIND MEASUREMENT
METEOROLOGY AND CHARACTERISTICS OF WIND FIELDS
JPRS-17424 N64-10992 02-21

CUMULONIMBUS CLOUD STUDY FOR WIND, TEMPERATURE, AND TURBULENT PROPERTIES N64-10993 02-21

CHARACTERISTIC PARAMETERS OF WIND FLOW IN IDEALIZED VEGETATIVE CANOPY
ERDAA-MET-7-63 N64-12248 03-21

AIRFLOW IN CORN PLANT-AIR LAYER FROM WIND VELOCITY MEASUREMENTS
IR-63-1 N64-12667 04-21

WIND MEASUREMENT & IMPACT PREDICTION FOR UNGUIDED SOUNDING ROCKETS
NASA-TN-D-2142 N64-15972 07-30

GRENADE-EXPLODING ROCKET SONDE FOR MEASURING TEMPERATURE AND WIND UP TO 90 KILOMETERS ALTITUDE
NASA-TN-D-2107 N64-16317 08-23

PULSE DOPPLER RADAR STUDY OF STORMS & TORNADOES
CAL-VC-1663-E-1 N64-16896 09-21

ACOUSTIC DEVICE FOR MEASURING MEAN HORIZONTAL WIND FLOW THROUGH LAYER OF ATMOSPHERE - ANEMOMETER
ERDA-125 N64-18923 11-21

SODIUM VAPOR TECHNIQUE FOR UPPER ATMOSPHERIC WIND MEASUREMENTS
NASA-CR-53666 N64-19607 12-21

DENSITY, TEMPERATURE, AND PRESSURE DISTRIBUTION OF WIND FROM METEOROLOGICAL ROCKET MEASUREMENTS
AFCRL-64-124 N64-19671 12-21

REMOTE CONTROLLED CUP ANEMOMETER WITH HIGH FREQUENCY DATA UNIT FOR MEASURING WIND SPEED N64-20214 13-15

ANEMOGRADIENTOGRAPH FOR AUTOMATIC RECORDING OF VERTICAL PROFILE OF WIND N64-20215 13-15

MEASUREMENT OF UPPER ATMOSPHERIC WINDS
NASA-CR-36 N64-25119 17-21

AERODYNAMICS OF SPHERICAL BALLOON WIND SENSORS
NASA-RP-228 N64-25969 18-04

MICROMETEOROLOGICAL NETWORK USING CAPTIVE BALLOONS FOR WIND MEASUREMENT
APGC-TDR-64-24 N64-28865 20-21

TEMPERATURE, PRESSURE, DENSITY, AND WIND MEASUREMENTS FROM RECORDED EXPLOSION TIMES AND SOUND ARRIVALS DURING ROCKET GRENADE EXPERIMENTS
NASA-TR-R-211 N64-31451 23-21

WIND & TEMPERATURE MEASUREMENTS OBTAINED FROM ROCKETSONDES IN UPPER ATMOSPHERE DURING JANUARY 1964
IRIG-MWG-29-64 N64-31620 23-32

WIND AND TEMPERATURE MEASUREMENTS DERIVED FROM ROCKET PROBES OF UPPER ATMOSPHERE DURING FEBRUARY 1964
IRIG-MWG-30-64 N64-31621 23-32

WIND MEASUREMENTS OF BLAST FORCES ON BODY DURING PRESSURE LOSS - EFFECT OF CLOTHING ON DRAG FORCES AND BODY MEASUREMENTS DURING WIND TUNNEL TESTS
AD-602207 N64-32066 23-14

WIND PRESSURE
METEOROLOGICAL AND WEATHER CONDITIONS IN HAILSTORM
N64-17570 09-21

GROUND WIND LOADS IN LAUNCH VEHICLES
N64-19366 12-30

DYNAMIC MODELS FOR STUDY OF LAUNCH VEHICLE BUFFETING AT TRANSONIC SPEEDS AND GROUND-WIND LOADS
N64-29262 21-33

WIND PROFILE
WIND PROFILE MEASUREMENTS FOR SPACECRAFT DESIGN
AIAA PAPER-63-296 N64-10308 01-02

UPPER AIR CLIMATOLOGY - WIND PROFILE CHARTS
N64-16303 08-21

THUNDERSTORM RADAR ECHOES & SURFACE WIND FIELDS
N64-16899 09-21

HYDROGEN ATOM, GASEOUS DIFFUSION, COSMIC RAY, SCINTILLATION, AND WIND DISTRIBUTION STUDIES
ANL-6769 N64-17107 09-23

WIND PROFILE EVALUATION BY LEAST SQUARES METHOD
N64-17113 09-21

VARIATION OF WIND WITH TIME AND SPACE FOR MISSILE TRAJECTORY ANALYSIS
WRE-TN-PAD-80 N64-20011 13-21

MESOSCALE STUDIES OF ECHO MOTION AND WIND PATTERN IN SUBTROPICS
REPT.-4 N64-20150 13-21

PHOTOELECTRONIC ANEMOGRADIENTOGRAPH - METEOROLOGICAL INSTRUMENT FOR DETERMINING WIND SPEED PROFILES
N64-20212 13-21

ANEMOGRADIENTOGRAPH FOR AUTOMATIC RECORDING OF VERTICAL PROFILE OF WIND
N64-20215 13-15

SHORT-TERM VARIATIONS OF ROCKET WINDS FOR METEOROLOGICAL ROCKET NETWORK
USAELRDL-TR-2369 N64-20333 13-21

WIND DIRECTION COMPONENT PROFILES FOR CAPE KENNEDY
NASA-TM-X-53009 N64-20581 13-21

DIRECTIONAL WIND COMPONENT PROFILES FOR USE IN AEROSPACE VEHICLE STRUCTURE AND CONTROL DESIGN
NASA-TM-X-53021 N64-20592 13-21

ALTITUDE VARIATIONS OF VERTICAL SCALE SIZES IN WIND STRUCTURE ABOVE 100 KM
NASA-CR-53793 N64-20736 13-12

METEOROLOGICAL ROCKET SITE AT MCMURDO, ANTARCTICA AND TEMPERATURE AND WIND PROFILES OBTAINED DURING FIRST ROCKET FIRINGS
N64-20775 14-10

1963 STATUS OF TROPOSPHERIC WIND PROFILES FOR AEROSPACE VEHICLE DESIGN
AD-600300 N64-23361 16-12

FREQUENCY AND INCIDENCE OF LIGHT WINDS IN STRATOSPHERE
REPT.-1064 N64-23918 16-12

SEASONAL AND LATITUDINAL VARIATION OF ZONAL WINDS AND TEMPERATURES IN STRATOSPHERE
RM-4144-PR N64-23962 16-12

WIND FLOW IN 80- TO 400-KM ALTITUDE REGION OF ATMOSPHERE
NASA-TM-X-51724 N64-24047 16-12

SOUTH POLE WEATHER DATA & ANALYSIS OF CURVATURE CHARCTERISTICS OF MICROMETEOROLOGICAL WIND & POTENTIAL TEMPERATURE PROFILE
N64-24485 17-21

WIND PROFILES AND MISSILE AND SPACECRAFT DESIGN
NASA-RP-237 N64-26402 18-21

LOW LEVEL WIND PROFILES FOR CAPE KENNEDY SEP. 23 TO 25, 1963
NASA-TM-X-53027 N64-29177 21-21

WIND PROFILE MODIFICATION EXPERIMENTS IN AIR FLOW OVER ICE USING MOVING AND STATIONARY ANEMOMETER MASTS
N64-29535 21-21

SMALL SCALE FEATURES OF VERTICAL WIND PROFILES FROM HIGH RESOLUTION BALLOON SOUNDINGS ABOVE TROPOPAUSE
NASA-TM-X-53115 N64-30512 22-21

COMPUTER PROGRAMMING FOR METEOROLOGY - GEOSTROPHIC WIND MODELING AND PREDICTION OF WIND & TEMPERATURE PROFILES
JPRS-26693 N64-31022 22-21

EFFECTS OF THERMAL STRATIFICATION & WIND VELOCITY ON WIND PROFILE IN GROUND LAYER
E-T-CH-63-6 N64-32131 23-21

WIND AND TEMPERATURE DATA FROM ROCKET SOUNDINGS
IRIG-MWG-27-63 N64-32366 23-32

WIND PROFILE DESIGN CRITERIA FOR AEROSPACE LAUNCH VEHICLES
AD-448623 N64-32545 23-21

VERTICAL PROPAGATION OF PRESSURE CHANGES AND DIURNAL VARIATION OF SURFACE WIND IN GREENLAND
IR-2 N64-32593 23-21

WIND SHEAR
AIRCRAFT ACCIDENT INVESTIGATION - STATISTICS, WIND SHEAR HAZARD, AND RELATED LAWS & REGULATIONS
ICAO-CIRCULAR-64-AN/58 N64-10933 02-22

REINTERPRETATION OF DATA ON DETECTION OF MID-LATITUDE SPORADIC E-LAYERS AND WIND SHEARS
NASA-CR-52564 N64-11324 02-12

SPORADIC E-LAYERS PRODUCED BY IONOSPHERIC WIND SHEAR
NASA-CR-55105 N64-12158 03-12

WIND SHEAR & IONIZATION PROFILES IN SPORADIC E LAYERS
N64-30069 21-12

CHEMICAL AGENTS FOR ROCKET VEHICLE PRODUCTION OF SMOKE TRAILS FOR WIND SHEAR MEASUREMENTS
NASA-TN-D-2277 N64-30095 21-07

FIREFLY PROJECT DATA ON IONOSPHERIC WINDS & SHEARS WITH SPORADIC E LAYER CORRELATIONS
N64-31389 23-12

WIND SHEAR THEORY OF SPORADIC E LAYER APPLIED TO FIREFLY PROJECT ELECTRON DENSITY PROFILES
N64-31390 23-12

UPPER ATMOSPHERE WIND SHEAR ANALYSIS BY GRAVITY WAVE SCALING APPLIED TO FIREFLY PROJECT DATA

N64-31397 23-12

TWILIGHT WIND SHEAR MEASUREMENTS IN UPPER IONOSPHERE N64-33654 24-12

PERSISTENCE OF NIGHT WINDS AND SHEARS IN E REGION
NASA-CR-59013 N64-33688 24-12

WIND TUNNEL
EFFECT OF CHANGES IN BASE CONTOUR ON DAMPING IN PITCH OF BLUNTED CONE IN WIND TUNNEL
NASA-TN-D-2062 N64-10183 01-02

SPECTROGRAPHIC DETERMINATION OF TEMPERATURE ACROSS NOZZLE EXIT OF ARC-HEATED WIND TUNNEL
ASD-TDR-63-98 N64-12595 04-24

FLIGHT PRESSURE AND WIND TUNNEL DATA FOR FUSELAGE OF X-15 AIRCRAFT AT TRANSONIC TO HYPERSONIC SPEEDS
NASA-TN-D-2241 N64-12961 04-04

CONVENTIONAL WIND TUNNEL USED AS MULTIGAS FACILITY
NASA-CR-53010 N64-13287 04-10

LOW SPEED WIND TUNNEL TESTS OF DELTA WING - LEADING EDGE VORTEX BREAKDOWN
ARC-R&M-3338 N64-13385 04-03

WIND-TUNNEL THEORY, AND THEORETICAL AEROELASTICITY
N64-14262 06-10

AERONAUTICS RESEARCH - MANAGEMENT PLANNING, FACILITY DESIGN, AND WIND TUNNEL DESIGN
N64-16020 07-01

AERONAUTICS RESEARCH - MANAGEMENT, FACILITY DESIGN AND CONSTRUCTION, & WIND TUNNEL DESIGN
N64-16021 07-01

TECHNICAL DETAILS OF PROPOSED 4 X 4 FOOT TRISONIC WIND TUNNEL N64-16022 07-01

WIND TUNNEL MEASUREMENT OF AERODYNAMIC CHARACTERISTICS OF AIRCRAFT MODEL AT HYPERSONIC VELOCITY
AEDC-TDR-64-31 N64-16062 07-04

CONVECTIVE HEAT TRANSFER DATA FROM FREE FLIGHT IN WIND TUNNELS N64-17017 09-13

WIND-TUNNEL STUDY ON DRAG OF PARALLEL CIRCULAR CYLINDERS IN SUPERSONIC FLOW N64-18482 10-02

WIND-TUNNEL TESTING OF DYNAMICS OF BLUNT BODY SEPARATION AT HYPERSONIC SPEEDS
ORA-63-13 N64-18644 11-02

FLOW VISUALIZATION TECHNIQUES FOR WIND TUNNELS - BIBLIOGRAPHY
AGARDOGRAPH-70 N64-19716 12-11

ACOUSTIC SCATTERING BY TURBULENCE IN WIND TUNNELS
AGARD-461 N64-19912 12-23

AERODYNAMIC NOISE IN AIRCRAFT AND WIND TUNNELS
SR-AE-2-63 N64-20438 13-23

BOUNDARY LAYER TESTS IN VORTEX WIND TUNNEL - ROTOR STATOR BLADES
ARL/ME-255 N64-20552 13-11

FREE-STREAM TURBULENCE IN SOME LOW-SPEED TUNNELS
ARC-R&M-3317 N64-21477 14-10

MAGNETIC SUSPENSION AND BALANCE SYSTEMS FOR WIND TUNNELS
ARL-63-235 N64-24384 17-10

WIND TUNNEL INVESTIGATION OF EFFECTS OF THRUST, SHROUD LENGTH, AND SHROUD CAMBER ON STATIC STABILITY CHARACTERISTICS OF SHROUDED PROPELLERS
DTMB-AERO-1073 N64-24882 17-02

WIND TUNNEL AND FLIGHT TESTING OF AIRPLANE CONFIGURATION INFLUENCE ON SONIC BOOM CHARACTERISTICS
NASA-RP-208 N64-25003 17-04

TWO-DIMENSIONAL BLOWING SLOT TO MEASURE DOWNSTREAM CHARACTERISTICS OF TURBULENT WALL JET IN STILL AIR
TN-64-50 N64-25192 17-10

WIND TUNNEL STUDY OF BOUNDARY LAYER CONTROL BY BLOWING ON AIRFOIL TO REDUCE DRAG
NASA-TN-D-2374 N64-25714 17-02

WIND TUNNEL TESTS OF HIGH ASPECT RATIO RECTANGULAR WING FLAP
ARC-R&M-3329 N64-25717 17-03

DIFFUSER PERFORMANCE AND MODEL BLOCKAGE EFFECTS IN HYPERSONIC OPEN-JET TUNNEL
NASA-TN-D-2384 N64-26002 18-02

INTERPRETATION OF MEASUREMENT RESULTS IN ARC WIND TUNNEL N64-26144 18-02

ENERGY SPECTRUM AND WIND TUNNEL TESTING OF TURBULENCE FLUCTUATION N64-26324 18-11

RESONANT FREQUENCY FOR COMPRESSIBLE FLOW PAST OSCILLATING MODEL IN WIND TUNNEL
ARC-R&M-3371 N64-26521 18-10

UNITARY COMPRESSOR-DRYER SYSTEM OF WIND TUNNEL
NAL-TN-AE-19-63 N64-26537 18-10

ELECTRIC ARC WIND TUNNEL POWER SUPPLY FOR REENTRY STUDIES N64-27107 19-06

WIND TUNNEL MEASUREMENTS ON LIFTING ROTOR AT HIGH THRUST COEFFICIENTS AND HIGH TIP-SPEED RATIOS
NASA-TN-D-2462 N64-28337 20-03

TECHNIQUES AND INSTRUMENTATION FOR MEASURING OSCILLATORY DERIVATIVES IN WIND TUNNELS
ARC-R&M-3319 N64-28521 20-10

WIND TUNNEL USED TO DETERMINE PERFORMANCE OF SLENDER WINGS SUITABLE FOR SUPERSONIC TRANSPORT AIRCRAFT
ARC-CP-742 N64-28770 20-03

WIND TUNNEL STUDY OF FAVORABLE INTERFERENCE TO INCREASE LIFT-DRAG RATIOS OF SUPERSONIC AIRCRAFT - OPTIMIZED WING-BODY-INLET CONFIGURATION
DTMB-AERO-1063, PT. II N64-28911 20-02

STEADY FLOW ACCELERATOR FOR WIND TUNNELS
N64-29124 21-24

FREE FLIGHT MOUNTING SYSTEM FOR HIGH SPEED WIND TUNNEL FLUTTER TESTING OF DYNAMIC MODELS
N64-29257 21-13

INFLATABLE WIND TUNNEL FLUTTER MODELS
N64-29258 21-13

REFRACTORY OXIDE MATERIALS FOR USE IN HIGH TEMPERATURE PEBBLE-BED WIND TUNNEL HEAT EXCHANGERS
NASA-TN-D-2493 N64-30102 21-17

ARC HEATED LIQUID SODIUM AS WORKING GAS FOR AERODYNAMIC WIND TUNNEL - ALKALI METAL ARC TUNNEL
NOLTR-64-82 N64-30979 22-10

ELECTRIC ARC AIR HEATER DESIGN FOR WIND TUNNEL FACILITY - COMPONENTS, POWER SUPPLY, CONTROL SYSTEMS, AND INSTRUMENTATION
AERODYNAMICS RES. REPT.-202 N64-31049 22-10

CALIBRATION TESTS OF 14 X 14-INCH TRISONIC WIND TUNNEL FOR MACH NUMBER RANGE 0.2 THROUGH 5.0
NASA-TM-X-53113 N64-31551 23-10

IMPROVEMENT OF SHORT ARC WIND TUNNEL BY ROTATING ARC IN HIGH PRESSURE CHAMBER
NASA-TT-F-9079 N64-31564 23-10

CORRELATION BETWEEN WIND TUNNEL AERODYNAMIC NOISE DATA FOR LAUNCH VEHICLE AND IN-FLIGHT VIBRATION DATA
NASA-CR-58776 N64-33158 24-10

VORTEX GENERATION - WIND TUNNEL AND IN-FLIGHT MEASUREMENTS N64-33738 24-11

WIND TUNNEL APPARATUS
PRESSURE LOSSES IN SCALE MODELS OF U-BENDS & Y-JUNCTIONS OF AIR RECEIVER SYSTEM OF WIND TUNNELS
TN-AE-15-63 N64-13331 04-11

WIND-TUNNEL TEST FACILITY USING MHD ACCELERATOR
SSD-TDR-63-317 N64-14497 06-24

MAGNETIC SUSPENSION AND BALANCE SYSTEM FOR STATIC AND DYNAMIC WIND TUNNEL TESTING
ARL-63-226 N64-14659 06-15

LARGE BLOW-DOWN HYPERSONIC WIND TUNNEL WITH METHANE-OXYGEN FIRED ZIRCONIUM OXIDE BED
ARL-63-223 N64-14682 06-10

AERODYNAMIC PERFORMANCE OF SUPERSONIC WIND-TUNNEL COMPRESSOR WITH FIRST CYLINDER REMOVED
AEDC-TDR-64-16 N64-14975 06-10

SUBSONIC WIND-TUNNEL FACILITY
DVL-344 N64-18488 10-10

COMPONENTS, PERFORMANCE, AND OPERATION OF HYPERSONIC WIND TUNNEL
NOLTR-62-47 N64-31668 23-10

WIND TUNNEL BALANCE
HIGH PRESSURE AIR FEED SYSTEM FOR WIND-TUNNEL BALANCES
COA-AERO-157 N64-14047 05-10

WIND-TUNNEL BALANCE UTILIZING MAGNETIC SUSPENSION
AST-3420-105-640 N64-18916 11-23

AERODYNAMIC BALANCES FOR MEASURING FORCES AFFECTING TEST MODEL IN WIND TUNNEL
FTD-TT-63-380/1&2 N64-20290 13-02

MAGNETIC SUSPENSION AND BALANCE SYSTEM FOR WIND TUNNELS
ARL-64-36 N64-20446 13-10

SIX-COMPONENT WIND TUNNEL BALANCE FOR MEASURING SMALL AERODYNAMIC FORCES
FTD-TT-64-46/1&2 N64-26111 18-15

WIND TUNNEL MODEL
HEAT CONDUCTION EFFECTS IN LEADING EDGE OF WIND TUNNEL MODELS
ATD-TDR-63-4035 N64-12577 04-03

DYNAMIC WIND-TUNNEL MODEL FOR STABILITY, CONTROL, AND RESPONSE CHARACTERISTICS & FLIGHT LOAD TESTING OF AIRCRAFT
TECH. LETTER 1310 N64-14830 06-10

WIND-TUNNEL WALL EFFECT ON TILT-WING AND FAN-IN-WING AIRCRAFT MODELS N64-17014 09-04

ELECTRODEPOSITION TECHNIQUES FOR WIND-TUNNEL MODELS
A479 N64-17137 09-17

DESIGN, FABRICATION, AND TESTING OF M-1-L REENTRY VEHICLE WIND TUNNEL MODEL
NASA-CR-53716 N64-19253 11-30

AERODYNAMIC BALANCES FOR MEASURING FORCES AFFECTING TEST MODEL IN WIND TUNNEL
FTD-TT-63-380/1&2 N64-20290 13-02

AERODYNAMIC CHARACTERISTICS OF STANDARD HYPERSONIC BALLISTIC MODELS FOR CORRELATION OF VARIOUS TEST FACILITY DATA
AEDC-TDR-64-137 N64-28612 20-02

X-22A RESEARCH AIRCRAFT LAYOUTS, CONTOURS, CONFIGURATION CALCULATION, AND PERFORMANCE AND WEIGHT STUDIES AS APPLIED TO WIND TUNNEL AIRPLANE MODEL DESIGNS
REPT.-2127-933001 N64-29717 21-04

TRANSITION FROM LAMINAR FLOW TO TURBULENT FLOW IN BOUNDARY LAYER OF WIND TUNNEL MODEL AT HYPERSONIC SPEED
REPT.-64SD855 N64-32141 23-11

HYPERSONIC WIND TUNNEL TEST OF BLUNT-NOSE FLARED CYLINDER MODEL FOR AERODYNAMIC CHARACTERISTICS IN AIR-CARBON DIOXIDE MIXTURES
NASA-CR-59186 N64-33218 24-02

WIND TUNNEL TESTING TECHNIQUE FOR SIMULATION OF AERDELASTIC EFFECTS ON STRUCTURAL LOADS - STABILITY AND CONTROL RESPONSE OF FULL SCALE VEHICLES
FDL-TDR-64-49, PT. 1 N64-33909 24-10

WIND TUNNEL NOZZLE
ELECTRON-ION RECOMBINATION IN FLOW OF PARTIALLY IONIZED ARGON PLASMA THROUGH WIND-TUNNEL NOZZLES
ARC-CP-634 N64-17247 09-24

DIFFERENCES IN THERMODYNAMIC AND TRANSPORT PROPERTIES BETWEEN CARBON DIOXIDE AND NITROGEN - LOW DENSITY WIND TUNNEL NOZZLE DESIGN
NASA-CR-58314 N64-29359 21-34

WIND TUNNEL STABILITY TEST
WIND TUNNEL STABILITY TESTS OF XV-5A VTOL AIRCRAFT IN LEVEL-FLIGHT
NASA-TN-D-2013 N64-11550 03-04

WIND TUNNEL TEST OF TRANSONIC SLED
AEDC-TDR-63-252 N64-12050 03-02

WIND TUNNEL TESTS OF XH-51A HELICOPTER MODEL
LR-16366 N64-12175 03-04

FULL-SCALE, WING-MOUNTED, TIP-TURBINE-DRIVEN LIFT FAN WIND TUNNEL TESTS
TRECOM-TR-63-21 N64-13818 05-10

SUBSONIC WIND-TUNNEL TESTING OF VTOL PROPELLER-TYPE AIRCRAFT
DTMB-AERO-1062 N64-14088 05-04

WIND-TUNNEL TESTS & CONTROL SYSTEM BEARING TESTS FOR XC-142 TRANSPORT AIRCRAFT
SAR-3 N64-14615 06-04

WIND-TUNNEL STABILITY TESTS OF TILT-WING VTOL AIRCRAFT
NASA-TN-D-2133 N64-14728 06-04

DYNAMIC WIND-TUNNEL MODEL FOR STABILITY, CONTROL, AND RESPONSE CHARACTERISTICS & FLIGHT LOAD TESTING OF AIRCRAFT
TECH. LETTER 1310 N64-14830 06-10

WIND-TUNNEL TEST OF ASTROBEE 1500 ROCKET MODEL TO MEASURE SIX-COMPONENT FORCES AND MOMENTS
NASA-CR-53042 N64-14891 06-02

WIND-TUNNEL TEST OF PRESSURE AND TEMPERATURE DISTRIBUTION ON FLAT PLATE ABOUT INJECTOR WITH 95 STATIC-PRESSURE PORTS AND 25 THERMOCOUPLES
NASA-CR-53039 N64-14894 06-30

WIND-TUNNEL STUDY OF SUPERSONIC PARACHUTES FOR HYPERFLO PARACHUTE DEVELOPMENT N64-15261 07-04

HYPERSONIC AND SUPERSONIC WIND TUNNELS, GROUND EFFECT MACHINE, AND V/STOL MODEL TESTS N64-17013 09-01

WIND-TUNNEL FLUTTER STUDIES OF SWEPTBACK T-TAIL FOR LARGE MULTIJET CARGO AIRCRAFT AT MACH NUMBERS TO 0.90
NASA-TN-D-2179 N64-17725 09-04

WIND TUNNEL TESTS OF AERODYNAMIC STABILITY AND CONTROL CHARACTERISTICS OF VTOL AIRCRAFT POWERED BY FOUR DUCTED TANDEM PROPELLERS
NASA-TN-D-2254 N64-17750 09-04

WIND-TUNNEL TESTING OF DYNAMICS OF BLUNT BODY SEPARATION AT HYPERSONIC SPEEDS
ORA-63-13 N64-18644 11-02

WIND TUNNEL TESTING OF TURBULENT BOUNDARY LAYER NOISE
NASA-TN-D-2247 N64-18733 11-11

WIND TUNNEL TESTS FOR HEAT TRANSFER COEFFICIENTS IN BOUNDARY LAYER-SHOCK WAVE INTERACTION REGION

USCEC-65-41 N64-19073 11-13

LOW SPEED WIND TUNNEL TESTS OF KITE BALLOON MODEL AERODYNAMIC STABILITY
ARC-CP-643 N64-21700 15-02

LOW SPEED WIND TUNNEL DETERMINATION OF DYNAMIC LATERAL STABILITY DERIVATIVES FOR DELTA WING AIRCRAFT
ARL/A-214 N64-22132 15-04

WIND TUNNEL TESTS OF XH-51 HELICOPTER FUSELAGE AND RIGID ROTOR
NASA-TN-D-2392 N64-25915 18-03

WIND TUNNEL MEASUREMENTS OF ROLL DAMPING MOMENT COEFFICIENT OF FINNED BODY AT SUBSONIC AND SUPERSONIC SPEEDS
NAVORD-6652 N64-25957 18-03

ERROR ANALYSIS OF TWO-COMPONENT STRAIN GAUGE BALANCE FOR NORMAL FORCE AND CENTER OF PRESSURE DETERMINATIONS OF WIND TUNNEL MODELS
SC-RR-64-698 N64-26744 18-15

WIND TUNNEL MEASUREMENTS OF RECTANGULAR WING WITH TRAILING EDGE FLAP
DLR-FB-64-02 N64-26745 18-03

FREE FLIGHT MOUNTING SYSTEM FOR HIGH SPEED WIND TUNNEL FLUTTER TESTING OF DYNAMIC MODELS
N64-29257 21-33

FLIGHT CONTROL, VEHICLE STRUCTURES, DESIGN, SYSTEMS SUPPORT, AND WIND TUNNEL TEST PROGRAM OF X-22A TRI-SERVICE V/STOL AIRCRAFT
REPT.-2127-933006 N64-29718 21-04

WIND TUNNEL TEST RESULTS, WEIGHT CONTROL PROGRAM, AND ACOUSTIC NOISE TESTS OF X-22A TRI-SERVICE V/STOL AIRCRAFT
REPT.-2127-9330010 N64-29719 21-04

WIND TUNNEL TESTS OF WING STALL, PERFORMANCE, AND LONGITUDINAL STABILITY & CONTROL OF LARGE MODEL V/STOL TILT WING TRANSPORT AIRCRAFT
NASA-TN-D-1857 N64-30995 22-04

PREDICTION OF GEMINI LAUNCH VEHICLE TRANSONIC BUFFET LOADING MOMENTS BY WIND TUNNEL TESTS
LV-280 N64-31836 23-33

CAPTIVE DYNAMIC-STABILITY TESTS OF GEMINI ABORT SEAT CONFIGURATION MODEL IN SUPERSONIC WIND TUNNEL
NASA-CR-59057 N64-33216 24-10

ANALOG COMPUTER FOR EVALUATION OF AERODYNAMIC COEFFICIENTS DURING WIND TUNNEL STATIC STABILITY TESTS
NOLTR-64-74 N64-33860 24-10

WIND VARIATION
POSSIBLE OSCILLATION OF WINDS IN EQUATORIAL STRATOSPHERE - SOLAR ACTIVITY EFFECT
N64-11721 03-21

WIND FLOW IN UPPER TROPOSPHERE UNDER INFLUENCE OF CONSERVATION OF VORTICITY AND THERMAL WIND APPROXIMATION
N64-11723 03-21

WIND VELOCITY
INFLUENCE OF WIND VELOCITY & OTHER METEOROLOGICAL PARAMETERS ON DISPERSION OF ATMOSPHERIC POLLUTANTS
N64-11050 02-21

BOUNDARY LAYER WIND VELOCITY AND ASSOCIATED TEMPERATURE DISTRIBUTIONS TO 1400-FEET IN TEXAS
AFCRL-63-738 N64-12608 04-09

STATISTICAL ANALYSIS OF SURFACE WIND VELOCITY, SKY CONDITION, AND VISIBILITY
ERDA-88 N64-12925 04-12

SOLAR WIND VELOCITY CORRELATION WITH GEOMAGNETIC, SOLAR AND COSMIC RAY ACTIVITY
NASA-CR-55151 N64-13184 04-28

WINDSPEED ANALYSIS FOR POSSIBLE WINDPOWER UTILIZATION
TN-WP-24-63 N64-13323 04-21

ANALYSIS OF WINDSPEED FOR POSSIBLE POWER UTILIZATION
TN-WP-23-63 N64-13345 04-21

ANALYSIS OF WINDSPEED FOR POSSIBLE WINDPOWER UTILIZATION
TN-WP-25-63 N64-13346 04-21

METEOROLOGICAL DATA FOR OCEAN BREEZE AND DRY GULCH PROGRAMS
N64-15488 07-21

COMPUTATION OF MAXIMUM WIND VELOCITIES AND MINIMUM TEMPERATURES - METEOROLOGY
N64-15619 07-21

7090 COMPUTER ANALYSIS OF WIND VELOCITY - SATURN VEHICLE FLIGHT SIMULATION
NASA-TM-X-51542 N64-18101 10-13

HOURLY AVERAGE WIND VELOCITIES AT LUCKNOW - WIND POWER UTILIZATION
NAL-TN-WP-26-63 N64-18394 10-21

UPPER AIR WINDS IN THE TROPICAL STRATOSPHERE - TROPOSPHERIC WESTERLIES
GMI-2383 N64-19189 11-21

INSTRUMENTED HIGH ALTITUDE SOUNDING PROJECTILE FOR ATMOSPHERIC TEMPERATURE AND WIND VELOCITY DETERMINATION
NOLTR-63-272 N64-21181 14-12

APPROXIMATE PROBABILITY ANALYSIS OF WIND VELOCITY STRUCTURE ABOVE SEA
N64-31749 23-21

EDDY-SHEDDING HOT-WIRE ANEMOMETER FOR MEASUREMENT OF LOW WIND SPEEDS
ERDA-185 N64-32038 23-13

EFFECTS OF THERMAL STRATIFICATION & WIND VELOCITY ON WIND PROFILE IN GROUND LAYER
E-T-CH-63-6 N64-32131 23-21

HOURLY WIND SPEED ANALYSIS TO DETERMINE WINDMILL PUMP CAPACITY
TN-WP-28-63 N64-32881 24-21

WIND VELOCITY MEASUREMENT
HIGH ALTITUDE WIND VELOCITY MEASUREMENTS IN VARIOUS SEASONS
AWS-TR-173 N64-12335 03-21

AIRFLOW IN CORN PLANT-AIR LAYER FROM WIND VELOCITY MEASUREMENTS
IR-63-1 N64-12667 04-21

MEASUREMENTS OF WIND DIRECTIONS AND VELOCITIES AT HIGH ALTITUDES WITH ROCKET RELEASED CHEMILUMINESCENT TRAILS
NASA-TM-X-53064 N64-26806 18-12

FREQUENCY DISTRIBUTION AND DIURNAL VARIATION OF WIND TO ESTIMATE ENERGY EXTRACTABLE BY WINDMILL
TN-WP-27-63 N64-29422 21-21

FIREFLY PROJECT - PHOTOGRAPHIC AND PHOTOMETRIC OBSERVATION OF WIND VELOCITY IN UPPER ATMOSPHERE FROM CHEMICAL PAYLOAD - DATA REDUCTION
N64-31379 23-12

COMPUTER ANALYSIS OF IONOSPHERIC WIND DATA - DRIFT DIRECTION AND VELOCITY IN E LAYER REFLECTIONS OVER PUERTO RICO
AFCRL-64-603 N64-31992 23-12

WINDOW
IMPROVING HIGH POWER RADIO FREQUENCY WINDOWS FOR MICROWAVE TUBES
RADC-TDR-63-510 N64-18032 10-09

WINDOWS FOR HIGH POWER MICROWAVE TRANSMISSION
NA-8240-8345-3 N64-21849 15-09

RING RESONATOR TESTING OF HIGH POWER RADIO FREQUENCY WAVEGUIDE WINDOWS
RADC-TDR-63-32 N64-22269 15-09

E-M WINDOW FOR AIR LIFT REENTRY VEHICLES

IER-4 N64-22509 15-34

DESIGN OF ROW OF WINDOWS IN PRESSURIZED CYLINDRICAL FUSELAGE
ARC-R&M-3360 N64-25479 17-34

BREWSTER ANGLE OUTPUT WINDOW REQUIREMENTS FOR LOW GAIN GAS LASER SYSTEMS
RM-177 N64-25965 18-25

ANTENNA WINDOW - TECHNIQUE FOR RADIO PROPAGATION THROUGH PLASMA SHEATH
BSR-985 N64-29761 21-08

SLIP-CAST FUSED SILICA ELECTROMAGNETIC WINDOWS FOR AIR LIFT REENTRY VEHICLES
IER-5 N64-31130 22-19

DIELECTRIC TO METAL SEALS AND COMPRESSION BAND WINDOW ASSEMBLIES FOR HIGH POWER MICROWAVE TUBE OUTPUT WINDOW
RADC-TDR-63-393 N64-31153 22-17

ELECTROMAGNETIC WINDOW CONFERENCE - FABRICATION AND TESTING OF AIRBORNE RADOMES AND HYPERSONIC ENVIRONMENT
AD-605391 N64-32213 23-17

WINDS ALOFT
EQUATORIAL EXTENSION OF TROUGHS IN UPPER WESTERLIES AND RELATION OF TROPOSPHERIC FLOW TO ONSET OF MONSOON RAINS OVER INDIA
N64-16307 08-21

WIND AND TEMPERATURE DISTRIBUTIONS OBSERVED AT 62 METERS ABOVE EARTH
ERDA-113 N64-17469 09-21

SYNOPTIC METEOROLOGY - WIND CIRCULATION AND ATMOSPHERIC PRESSURE IN UPPER ATMOSPHERE
NASA-TM-X-51597 N64-19610 12-21

STRATOSPHERIC STRUCTURE DETERMINATION FROM WIND AND TEMPERATURE MEASUREMENTS BY METEOROLOGICAL ROCKETS
ERDA-130 N64-20309 13-21

WIND PROTECTION FOR RADIOSONDE BALLOONS
FTD-TT-63-708/1&2 N64-22658 15-15

SURFACE WIND SPEED, TOTAL OPAQUE CLOUD COVER, AND MAXIMUM WIND SPEED ALOFT AT CAPE KENNEDY, FLORIDA
NASA-TM-X-53037 N64-23999 16-12

COMPUTER EVALUATION OF WINDS FROM METEOROLOGICAL ROCKET SONDE MEASUREMENTS
NASA-TM-X-51743 N64-24018 16-21

MEASUREMENTS OF WIND DIRECTIONS AND VELOCITIES AT HIGH ALTITUDES WITH ROCKET RELEASED CHEMILUMINESCENT TRAILS
NASA-TM-X-53064 N64-26806 18-12

WINDSHIELD
INCREASED LIFETIME OF B-58 COCKPIT WINDSHIELD DUE TO INCREASED PIGMENTED LAYER DEPTH
FTDM-3104 N64-16349 08-19

B-58 AIRCRAFT COCKPIT WINDSHIELD EXPOSURE TEST - DEGRADATION TIME FOR PIGMENTED GLASS
FTDM-2949 N64-16350 08-19

ENVIRONMENTAL TESTING OF RAIN REPELLANT CHARACTERISTICS OF WINDSHIELD COATING
FGT-3062, ADD. 1 N64-16633 08-19

THERMAL DEGRADATION AND BURST PRESSURE OF B-58 AIRCRAFT WINDSHIELDS
FTDM-2861 N64-16634 08-19

BIRD IMPACT RESISTANCE OF WINDSHIELDS FOR HIGH PERFORMANCE TRANSPORT AIRCRAFT
FAA-ADS-8 N64-20628 13-04

STRESS ANALYSIS OF EXTERNAL FRONT WINDOW OF X-20A AIRCRAFT /DYNA-SOAR SPACE GLIDER/
SEG-TDR-64-16 N64-27446 19-34

WING
SA SWEPT WING
AERODYNAMICS OF LOW-DENSITY, AUTOROTATING WINGS FOR MANNED ATMOSPHERIC REENTRY N64-10044 01-02

THEORETICAL AND EXPERIMENTAL VALUES OF AERODYNAMIC FORCES ACTING ON WINGS AND CONTROLS IN OSCILLATION AT LOW MACH NUMBERS
ARC-CP-681 N64-10054 01-03

CAMBER FLUTTER CHARACTERISTICS OF MONOCOQUE AND MULTIWEB WINGS SUBJECTED TO SUPERSONIC FLOW
NASA-TR-R-150 N64-10468 01-03

SOVIET SCIENCE - OPTIMAL CONTROL, RADICALS, RESONANCE SPECTRA, DETRITUS ANALYSIS, BONE REGENERATION, & MAGNETIC FIELD EFFECT ON BIOLOGY
JPRS-20231 N64-12493 04-01

WING FLUTTER STUDY BY COMPUTATION OF WORK FROM FORCES & MOMENTS FOR PERIOD OF VIBRATIONS
FTD-TT-63-738/1&2 N64-12624 04-33

EXACT SOLUTIONS FOR WINGS HAVING ONE AND TWO ATTACHED PLANE SHOCK WAVES AT HYPERSONIC SPEEDS
RAE-TRANS-1044 N64-12904 04-03

SHOCK-TUNNEL MEASUREMENTS OF UNDERSURFACE PRESSURE AND SHOCK ANGLE ON NONWEILER WING COMPARED WITH TWO-DIMENSIONAL FLOW ABOUT WEDGE
ARC-CP-684 N64-13391 04-03

DURABILITY OF WING ASSEMBLY FOR HAMBURGER HFB 320
AIRCRAFT N64-13498 04-33

VARIABLE GEOMETRY WING DESIGN & COST ANALYSIS - MAINTENANCE, STRUCTURE, FLUTTER, WEIGHT, AND EXTERNAL STORES CONSIDERATIONS
AGARD-437 N64-13934 05-04

ZERO LIFT DRAG MEASUREMENTS OF WINGS PROPOSED FOR TRANSONIC FIGHTER AIRCRAFT - GLOSTER JAVELIN
ARC-CP-678 N64-16530 08-04

LIFTING SURFACE THEORY FOR WINGS AT HIGH ANGLES OF ATTACK
VRC-9A N64-17121 09-03

LIFT DISTRIBUTION ON WINGS IN UNBOUNDED FLOW FIELD NEAR GROUND - AERODYNAMIC CHARACTERISTICS
RAE-TRANS-1054 N64-17249 09-03

AIRFLOW DIRECTION ON WING OF FLYING BIRD OBSERVED BY VANE AND SILK THREAD METHOD - AERODYNAMICS
JPRS-24357 N64-18980 11-16

AERODYNAMIC FORCES ON COMBINATION OF WING AND FIN OSCILLATING IN SUBSONIC FLOW
SAAB-TN-54 N64-20427 13-03

NONSTATIONARY FORCE ON FINITE WING SPAN IN INCOMPRESSIBLE FLOW
DFL-236 N64-21230 14-03

PLANFORM MODIFICATION EFFECTS ON SKIN FRICTION DRAG OF AIRCRAFT WING AND CONTROL SURFACES
NASA-RP-170 N64-21274 14-03

SHEET MATERIALS FOR WING AND FUSELAGE OF SUPERSONIC TRANSPORTS
NASA-RP-183 N64-21279 14-04

LIFTING SURFACE THEORY FOR WINGS AT HIGH ANGLES OF ATTACK IN MULTIPLE SLIPSTREAMS
AD-423274 N64-21319 14-03

COMPUTATION OF SHEARING STRESSES AND STRAINS FOR FUSELAGE, WINGS, AND TAIL PLANES
N64-21697 15-33

HYPERSONIC WIND TUNNEL TESTS OF FORCE AND MOMENT CHARACTERISTICS OF SIMPLE WING SERIES IN AIR AND HELIUM
NASA-TN-D-2328 N64-22672 15-03

AERODYNAMIC CHARACTERISTICS OF CYLINDRICAL SHELLS AND WINGS
FTD-TT-62-1111/1&2 N64-23066 16-03

AERODYNAMIC CHARACTERISTICS OF THIN CURVED BODIES AND CURVED SURFACE WINGS N64-23067 16-03

INFLUENCE OF AIR STREAM FLOW ON AERODYNAMIC CHARACTERISTICS OF PROFILE WITH SLOTTED FLAP FOR DIFFERENT AIR STREAM TYPES N64-23069 16-03

STRESS-STRAIN DISTRIBUTION ON THIN WALLED CONICAL WING SHELLS USING VLASOV EQUATION N64-23072 16-33

STEADY MOTION AND MUTUAL INTERFERENCE OF ANNULAR WING AND INFINITE CYLINDRICAL BODY IN IDEAL INCOMPRESSIBLE FLUID N64-23079 16-03

EQUIVALENCE LAW RELATING TWO- AND THREE-DIMENSIONAL PRESSURE DISTRIBUTIONS FOR WINGS AT HIGH SPEED
ARC-R&M-3346 N64-25201 17-03

WIND TUNNEL MEASUREMENTS OF RECTANGULAR WING WITH TRAILING EDGE FLAP
DLR-FB-64-02 N64-26745 18-03

FLIGHT TEST OF DO 27 AIRCRAFT STRUCTURAL WING - LEADING EDGE LIFT FORCES
AVA-63-02 N64-27140 19-04

EFFECTS OF ION BOMBARDMENT OF EMBRYONIC SITES ON WING GROWTH OF CONFUSED FLOUR BEETLE N64-27513 19-16

TRANSONIC FLOW ON TWO-DIMENSIONAL WINGS - AERODYNAMIC CHARACTERISTICS N64-27782 19-03

REVERSIBILITY OF STABILIZED MOTION OF ANNULAR WING AND COAXIAL INFINITE CYLINDER N64-28486 20-03

TESTING OF WING MODEL WITH HIGH TRANSIENT HEATING N64-29270 21-33

AERODYNAMIC HEATING OF HYPERSONIC GLIDER WINGS
REPT.-61SD12 N64-30073 21-13

MOTION OF THIN WING NEAR LIQUID SURFACE
DTMB-TRANSL-316 N64-32137 23-11

HYDRODYNAMIC FORCE AND SPRAY TESTS ON WING END PLATES PENETRATING WATER SURFACE
GD/C-64-100 N64-32463 23-11

UNSTEADY SPATIAL FLOW OF COMPRESSIBLE FLUIDS - WING OF FINITE SPAN IN PRESENCE OF MOVING SHOCK WAVE
NASA-TT-F-8983 N64-33390 24-03

WING BODY
STRESSED STATE OF ROUND-SECTION FUSELAGE UNDER TORSION IN WING REGION N64-23071 16-33

WIND TUNNEL STUDY OF FAVORABLE INTERFERENCE TO INCREASE LIFT-DRAG RATIOS OF SUPERSONIC AIRCRAFT - OPTIMIZED WING-BODY-INLET CONFIGURATION
DTMB-AERO-1063, PT. II N64-28911 20-02

WING-FUSELAGE COMBINATION
WING-FUSELAGE INTERFERENCE IN HIGH ORDER CONICAL FLOW
FTD-TT-63-391/1&2&3&4 N64-21948 15-03

HYPERSONIC STATIC AND DYNAMIC STABILITY COEFFICIENTS OF SHARP-NOSED AXISYMMETRIC BODIES AND WING-FUSELAGE COMBINATIONS
C910188-8 N64-24127 16-11

SIDE FORCES ON WING-BODY COMBINATION DUE TO TRAILING VORTICES
ARC-CP-669 N64-25046 17-02

WING-FUSELAGE-STORE
STORE PITCH FLEXIBILITY EFFECT ON FLUTTER CHARACTERISTICS OF WING-STORE CONFIGURATIONS IN TRANSONIC WIND TUNNEL
NASA-TN-D-2479 N64-30099 21-33

WING LOADING
POWER SPECTRAL METHOD OF DIGITAL COMPUTER CALCULATION OF WING GUST LOADS N64-10214 01-20

DISTRIBUTION OF AERODYNAMIC LOADS ON WINGS OF CONSTANT CROSS SECTION - END RESTRAINTS
FTD-TT-63-751/1&2&3&4 N64-12623 04-01

TRANSIENT OSCILLATION OF LOAD CARRYING SURFACE /WING/ IN COMPRESSIBLE NONVISCOUS MEDIUM
FTD-MT-63-140 N64-18683 11-21

WING PANEL
TRANSONIC STUDY OF SWEPT WING PANEL OF PYRAMIDAL BODY
NASA-TN-D-2033 N64-11554 03-38

WING PLANFORM
CALCULATION METHOD FOR AERODYNAMIC FORCES ON WING PLANFORM IN SUBSONIC NONVISCOUS FLOW
NLR-TN-W.2 N64-18332 10-03

ROLLING MOMENT MEASUREMENTS ON ELASTIC MODEL WING OF M-PLANFORM IN LOW SPEED FLOW
ARC-R&M-3362 N64-26704 18-03

NUMERICAL METHOD FOR PRESSURE DISTRIBUTION ON FLAT WING OF ARBITRARY PLANFORM
AIAA PAPER-64-590 N64-27752 19-03

WING PROFILE
THIN WING PROFILE WITH MINIMUM MEAN COEFFICIENT OF HEAT TRANSFER FOR GIVEN LIFT
FTD-TT-63-804/1&2 N64-21956 15-03

WING PROFILE, PAYLOAD, AND DRAG MINIMIZATION OF GLIDER
FTD-TT-64-341/1&2 N64-27827 19-04

WING SPAN
RHEOELECTRIC SIMULATION METHOD FOR MEASURING EFFECTS OF GROUND PROXIMITY ON WINGS
DTMB-AERO-1068 N64-20420 13-03

FLYING QUALITIES AND SPIN EVALUATION OF EXTENDED WING MOHAWK AIRCRAFT
FT-134-0-IA.8 N64-31303 22-04

WING STALL
EFFECT OF WING STALLING IN TRANSITION ON 1/4-SCALE MODEL OF VZ-2 AIRCRAFT
NASA-TN-D-2381 N64-26840 18-04

WIND TUNNEL TESTS OF WING STALL, PERFORMANCE, AND LONGITUDINAL STABILITY & CONTROL OF LARGE MODEL V/STOL TILT WING TRANSPORT AIRCRAFT
NASA-TN-D-1857 N64-30995 22-04

WING TANK
WING BOX FUEL CONTAINMENT STUDIES - STATIC AND FATIGUE TESTS ON TITANIUM BOX BEAM SPECIMENS
LAC/425741/A/ N64-31302 22-17

WING TIP
WING TIP PARACHUTE ON VENOM AIRCRAFT, DIRECTIONAL STABILITY DERIVATIVE AND RUDDER POWER MEASUREMENT
ARC-CP-658 N64-10139 01-03

WING TIP CONTROL
EFFECT OF SKEWED WING-TIP CONTROLS ON HIGHLY SWEPT ARROW WING AT SUPERSONIC SPEEDS
NASA-TN-D-1867 N64-31224 22-03

WINGED VEHICLE
PRESSURE MEASUREMENTS FOR HYPERSONIC FLOW OVER WINGED REENTRY CONFIGURATION COMPOSED OF CABIN ON SWEPTBACK DELTA WING
RTD-TDR-63-4179, PT. 1 N64-18025 10-30

WIRE
INTERNAL FRICTION DUE TO OXYGEN IN SINGLE CRYSTAL SILVER WIRE UNDER TORSIONAL STRESS
UCRL-11017 N64-10186 01-18

USE OF TUNGSTEN POWDER IN PRODUCTION OF POWDER WIRE FOR AUTOMATIC BUILD-UP N64-11020 02-18

TWO-WIRE SETTING SYSTEM FOR ELECTRONIC TIMERS
HDL-TR-1150 N64-12933 04-09

EVALUATION OF DIFFUSED TRANSISTOR, ALUMINUM WIRE, AND DOUBLE-COATING AND EXPOSURE OF PHOTORESISTANT MATERIAL N64-13231 04-17

LOW TEMPERATURE ELECTRONICS - CRITICAL-CURRENT CRITICAL-FIELD CHARACTERISTICS OF ANNEALED NIOBIUM WIRE SPECIMENS
SSD-TDR-63-311 N64-14511 08-23

EXPLOSION OF ELECTRICAL NICHROME WIRE IN CIRCUITS WITH VARYING INTERNAL RESISTANCE
AD-421985 N64-14692 06-09

ANNOTATED BIBLIOGRAPHY OF EXPLODING WIRES, FILMS, AND RIBBONS
AID-B-63-78 N64-15525 07-23

ISOTHERMAL MEASUREMENTS OF MAGNETORESISTANCE IN WIRES FOR LOW TEMPERATURE CRYOSTATS
AD-434385 N64-18703 11-23

DISINTEGRATION PITCH OF FUSE WIRE IN QUARTZ SAND
E-T-P-63-2 N64-18877 11-09

SOLDERLESS WIRE WRAP CONNECTIONS PRODUCED BY AUTOMATIC MACHINE AND HAND TOOLS
SM-44664 N64-19008 11-17

REWRAPPING OF SOLDERLESS WIRE WRAP TERMINALS
SM-45946 N64-19011 11-17

CONDUCTIVE HEAT TRANSFER FROM FINE WIRE
P-2843 N64-20117 13-13

IMPERFECTIONS OF 2319 ALUMINUM ALLOY WELD WIRE
NASA-CR-56100 N64-20687 13-18

THIN COLD WIRE FOR MEASURING HEAT TRANSFER RATES WITHIN PLANE SHOCK WAVE
SRL-64-1 N64-21339 14-15

ARC SPOT AS STEADY STATE EXPLODING WIRE PHENOMENON
N64-21377 14-24

THEORIES OF MOLECULAR STRUCTURE AND PLASMA PHYSICS IN FIRST PICOSECOND OF WIRE EXPLOSION
N64-21378 14-23

POWER WIRE FOR VERY HIGH TEMPERATURE ENVIRONMENT
AD-434587 N64-21598 15-17

DRAWING OF COPPER WIRE IN ULTRASONIC FIELD
FTD-TT-63-675/1&2 N64-22354 15-17

WIRE RESISTANCE STRAIN GAUGE INSTRUMENT TO MEASURE MECHANICAL STRESS AND DEFORMATION
FTD-TT-63-729/1&2&4 N64-22355 15-15

ELECTROMAGNETIC COUPLING BETWEEN SINGLE-WIRE, TWO-WIRE, COAXIAL, AND SHIELDED TWISTED-PAIR CABLES N64-22817 16-09

INTERCONNECTIVE WIRE WELDING IN ELECTRONIC MODULES
NASA-TN-D-2321 N64-23235 16-09

INORGANIC BINARY COMPOUND SYNTHESIS BY EXPLODING WIRE TECHNIQUE N64-24128 16-06

HIGH STRENGTH BERYLLIUM FINE WIRE
TR-351-243 N64-24505 17-18

TRANSITION FROM PLASTIC TO BRITTLE BEHAVIOR IN THIN TUNGSTEN WIRE
RSIC-188 N64-25222 17-18

CHEMICAL MILLING OF BERYLLIUM WIRE INTO ULTRAFINE SIZES
NAEC-ANL-1909 N64-25623 17-18

TORSION DAMPING CAPACITY OF THIN WIRE AND USE IN DAMPING LIBRATION OF GRAVITY GRADIENT SATELLITE
CM-1039 N64-26624 18-23

SIMULATION OF CHARGED PARTICLE MOVING IN MAGNETIC FIELD BY CURRENT CARRYING WIRE UNDER TENSION
M-15 N64-26793 18-23

VERY HIGH ENERGY STORAGE SYSTEMS TO SUPPLY POWER TO EXPLODING WIRE LOAD N64-27104 19-06

WORK HARDENING OF POLYCRYSTALLINE & SINGLE CRYSTAL NIOBIUM DURING HIGHEST-STRAIN WIRE DRAWING
ML-TDR-64-56 N64-28571 20-18

BRAZING OF END SEALS FOR HIGH TEMPERATURE, HIGH VOLTAGE POWER TRANSMISSION WIRE
QR-5 N64-28621 20-17

SPECIFICATIONS, ACCEPTANCE TESTS, AND QUALITY CONTROL FOR INTERCONNECTING WIRE FOR AIRCRAFT
NA63H-1108 N64-29576 21-17

MANUFACTURING PROCESS TO PRODUCE HIGH STRENGTH BERYLLIUM WIRE
TR-360-243 N64-30818 22-18

TWO THOUSAND DEG F POWER WIRE SYSTEN AND ELECTRON-BEAM FLOAT-ZONE REFINING OF RHODIUM
QR-2 N64-31193 22-18

LITHIUM DEUTERIDE-COATED LITHIUM WIRE
RFP-428 N64-31328 22-17

ULTRASONIC WELDED WIRE SHOCK AND VIBRATION TESTING FOR ELECTRON TUBE MOUNTING
AD-425235 N64-32096 23-17

ALLEVIATION OF DIE WELDING DURING PIANO WIRE DRAWING BY PICKLING IN DILUTE NITRIC ACID SOLUTION
NOTS-TP-3636 N64-32960 24-17

SOLDER AND PIANO WIRE TOOLS FOR CHAMFERING SMALL HOLES N64-33614 24-17

WIRE MESH
HIGH FREQUENCY WIRE-GRID LENS ANTENNA FOR DIRECTION FINDING
RADC-TDR-63-211 N64-14327 06-09

WIRE MESH LENS ANTENNA FOR HIGH FREQUENCY COMMUNICATIONS
RD-64-38 N64-23239 16-09

DIFFUSION BONDING OF STAINLESS STEEL WIRE MESH REINFORCEMENT TO BERYLLIUM TUBE FOR HYPERVELOCITY IMPACT TARGET
NASA-CR-54222 N64-34010 24-17

WOOD
RADAR CROSS SECTION MODEL FABRICATION USING WOOD
N64-24314 17-08

MATHEMATICAL PREDICTION OF TEMPERATURE RISE WITHIN SEMI-INFINITE WOOD SLAB SUBJECTED TO HIGH TEMPERATURE CONDITIONS
WSS/CI PAPER-64-5 N64-24374 17-26

WOOD AIRPLANE CONSTRUCTION
BEHAVIOR AND NONDESTRUCTIVE TESTING OF WOOD STRAIGHT-GLUED JOINTS FOR AIRCRAFT STRUCTURES
N64-15020 07-19

WORK
APPLICATION OF THEORY OF SIMILARITY TO GAS TURBINE WORK REGIMES N64-11140 02-06

MAINTENANCE WORK CONTROL PROGRAM USING DATA PROCESSING TECHNIQUES
Y-1371 N64-12124 03-20

WORK CAPACITY
WORK CAPACITY AS RELATED TO PHYSIOLOGICAL AND CHRONOLOGICAL AGING
CARI-63-18 N64-16728 08-14

EFFECTS OF TRANQUILIZING, ANALEPTIC, AND VASODILATING DRUGS ON PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE
CARI-63-34 N64-26845 18-16

ENHANCEMENT OF WORK PERFORMANCE BY ORALLY PRESENTED RESULTS
TR-18 N64-27096 19-14

WORK CAPACITY AND TOLERANCE INFLUENCED BY AGE AND ALTITUDE - PHYSIOLOGY
CARI-63-33 N64-29849 21-14

WORK FUNCTION
THERMIONIC CONVERTER - CESIUM WITH CESIUM FLUORIDE ADDITIVE FOR LOWER WORK FUNCTION
TE-11-64 N64-14652 08-06

CHANGE OF ELECTRON WORK FUNCTION DURING COLD WORKING OF MOLYBDENUM & TANTALUM AND HIGH TEMPERATURE DEFORMATION OF REFRACTORY METALS
JPRS-23121 N64-14878 06-17

PROVISION OF CLEAN SURFACES FOR SODIUM DEPOSITION AND MEASUREMENT OF SURFACE WORK FUNCTIONS - PHOTOEMISSION
ASD-TDR-63-340 N64-18931 11-25

WORK FUNCTION OF METAL SURFACE IN CESIUM VAPOR
NASA-TM-X-52026 N64-20607 13-23

CHANGES IN WORK FUNCTION OF LANGMUIR PROBE IN LOW DENSITY DISCHARGE TUBE AT HIGH TEMPERATURES
NASA-CR-56170 N64-20817 14-24

WORK FUNCTION, AND DESORPTION ENERGY & RATES OF CESIUM COATED REFRACTORY CELLS N64-22985 16-18

ELECTRON WORK FUNCTION OF METAL IMMERSED IN GAS FOR CESIUM THERMIONIC DIODE APPLICATION
NASA-TN-D-2357 N64-24817 17-09

THERMIONIC WORK FUNCTIONS OF CHEMICAL COMPOUNDS AND RELATION TO ELECTRONIC AND CRYSTAL STRUCTURES
NASA-CR-56907 N64-25574 17-18

LOW WORK FUNCTION COLLECTOR FOR THERMIONIC ENERGY CONVERTERS
ATSR-1 N64-25686 17-13

RELATIONSHIP BETWEEN THERMIONIC WORK FUNCTION OF REFRACTORY INTERMETALLIC COMPOUNDS AND THEIR ELECTRONIC AND CRYSTAL STRUCTURES
NASA-CR-58564 N64-29690 21-25

CESIUM VAPOR-FILLED THERMIONIC CONVERTERS FOR HIGH VACUUM WORK FUNCTION EMITTER MATERIALS
MND-3100 N64-31198 22-06

WORK HARDENING
WORK HARDENING OF HEAT RESISTANT AND THERMAL-SHOCK RESISTANT STEEL N64-17082 09-17

WORK HARDENING OF POLYCRYSTALLINE & SINGLE CRYSTAL NIOBIUM DURING HIGHEST-STRAIN WIRE DRAWING
ML-TDR-64-56 N64-28571 20-18

WORK-REST CYCLE
DEVELOPMENT OF TECHNIQUES RELATED TO TEMPORAL ASPECTS OF PHOTO INTERPRETATION - EXPOSURE TIME & WORK-REST CYCLES N64-10534 01-14

PSYCHOLOGICAL EFFECTS OF RESTRICTED WORKSPACE AND WORK-REST CYCLE ON CREW FOR LUNAR MISSION
NASA-TN-D-2065 N64-14519 06-14

EFFECT OF SLEEP DEPRIVATION AND DEMANDING WORK-REST SCHEDULE ON CREW PERFORMANCE
AMRL-TDR-64-63 N64-31827 23-14

WORKING FLUID
LIQUID METALS AS HEAT TRANSFER AND THERMODYNAMIC WORKING FLUIDS FOR AEROSPACE ELECTRIC POWER SUPPLY N64-10176 01-18

SUPERCRITICAL WORKING FLUID ENGINE FOR NUCLEAR POWERED ELECTRIC GENERATING SYSTEM
NYO-10398 N64-11629 03-06

LIQUID METALS AS WORKING FLUIDS FOR POWER-GENERATION SYSTEMS N64-15239 07-06

DESIGN OF PRESSURE VESSEL, PUMPING SYSTEM, AND WORKING FLUIDS FOR ELECTROSPARK EXTRUSION WITH CAPACITOR DISCHARGE ENERGY
RAC-2491 N64-26204 18-17

VISCOSITY OF CESIUM, CESIUM-HELIUM MIXTURES, AND BINARY GAS MIXTURES ANALYZED AS WORKING FLUIDS FOR MAGNETOPLASMADYNAMIC GENERATOR N64-30441 22-11

LIQUID METAL TECHNOLOGY FOR HIGH TEMPERATURE HEAT TRANSFER, WORKING FLUID, AND ELECTRICAL APPLICATIONS N64-32772 24-18

SOLAR, DYNAMIC, SPACE POWER SYSTEM USING STEAM AS WORKING FLUID
ASTRA-846-6.1 N64-33751 24-06

WRINKLE
MICROWAVE SCATTERING BY WRINKLED SPHERE
NASA-CR-55163 N64-13182 04-23

WRINKLING AS FUNCTION OF SURFACE WAVINESS IN ALUMINUM HONEYCOMB CORE PANELS
ERR-FW-196 N64-16628 08-34

WRINKLING OF STRETCHED MEMBRANE SUBJECTED TO TORQUE LOADING THROUGH ATTACHED HUB
NASA-TN-D-2456 N64-28336 20-33

WROUGHT ALLOY
EFFECT OF INCREASED CARBON AND ALLOY CONTENT ON HYDROGEN COLD CRACKING OF WELDED WROUGHT STEEL
C59/16/64 N64-28143 20-18

STRESS CORROSION TESTS OF WROUGHT MAGNESIUM-LITHIUM ALLOY
M65-1-1 N64-31292 22-18

X-BAND
TRAVELING-WAVE MASER USING RUBY & SLOW-WAVE STRUCTURE AT X-BAND FREQUENCIES
TR-63 N64-14354 06-25

OBSERVATION RESULTS AT AND NEAR VERTICAL INCIDENCE WITH M-33 X-BAND RADAR
AFCRL-63-921 N64-15734 07-08

SPIN-WAVE ANISOTROPY IN PARALLEL PUMPING EXPERIMENTS AT X-BAND FREQUENCIES - SINGLE CRYSTAL YTTRIUM-IRON GARNET
AFCRL-64-14 N64-19124 11-25

HIGH POWER X-BAND KLYSTRON AMPLIFIER
RADC-TDR-63-524 N64-19186 11-09

X-BAND CROSSED-FIELD AMPLIFIER
SFD-33-IDR-2 N64-19807 12-09

OPTIMUM PERFORMANCE TESTING OF X-BAND TUNNEL DIODE OSCILLATOR
QPR-2 N64-20097 13-09

LOW AVERAGE POWER PULSED TUBE CONSTRUCTION AND TEST FOR HIGH POWER X-BAND KLYSTRON DEVELOPMENT PROGRAM
RADC-TDR-64-77 N64-21318 14-09

SOLID STATE DEVICE - FREQUENCY CONVERTER FOR L-, S-, C-, AND X-BANDS
AD-432394 N64-21396 14-08

OPTIMUM TRIODE INTEGRATION INTO X-BAND CIRCUITRY AND HIGH EMISSION DENSITY OXIDE CATHODE-TRIODE OCILLATORS FOR USE AT X-BAND
REPT.-10 N64-24074 16-09

PULSE RADAR SCATTERING FROM LINEAR TARGETS USING X-BAND RADAR WITH NANOSECOND PULSE WIDTH N64-24319 17-08

LOW NOISE, MULTIPLE FUNCTION, X-BAND TRAVELING WAVE TUBE
REPT.-87535-Q7 N64-24448 17-09

CRYSTAL FREQUENCY CONVERTER UNITS FOR L-, S-, C-, AND X-BANDS
IDR-9 N64-24808 17-08

INCREASING SENSITIVITY OF WEATHER RADAR SET WITH X-BAND HELIUM MASER
USAELRDL-TR-2427 N64-26173 18-21

INTERACTION STRUCTURES LEADING TO DEVELOPMENT OF X-BAND CROSSED FIELD AMPLIFIERS
AD-437747 N64-26291 18-23

X-BAND SOLID STATE DETECTOR AMPLIFIER
QPR-2 N64-26511 18-09

CONTINUOUS WAVE X-BAND VOLTAGE TUNABLE MAGNETRON
REPT.-3 N64-27627 19-09

EVALUATING LOW-POWER, X-BAND, PLATE-PULSED OSCILLATOR
REPT.-4 N64-27707 19-09

X-BAND MAGNETIC RESONANCE PLASMA ACCELERATOR
AIAA PAPER-64-702 N64-28368 20-24

FREQUENCY CONVERTERS FOR L-BAND, C-BAND, S-BAND, X-BAND, & KA-BAND
AD-602517 N64-29657 21-09

LOW NOISE, MULTIPLE FUNCTION, X-BAND TRAVELING WAVE TUBE
IDR-3 N64-29661 21-09

X-BAND, BEAM-TYPE PARAMETRIC AMPLIFIER FOR OPERATION IN INSTANTANEOUS FREQUENCY BAND
RADC-TDR-64-280 N64-29928 21-09

HIGH POWER X-BAND KLYSTRON AMPLIFIER
RADC-TDR-64-257 N64-29982 21-09

X-BAND SOLID STATE DETECTOR/AMPLIFIER
QPR-3 N64-30167 21-09

PROTOTYPE DESIGN OF X-BAND STRIP LINE DUPLEXER
QPR-3 N64-30571 22-09

SLOW WAVE STRUCTURE EVALUATION AND TUBE CONSTRUCTION FOR X-BAND CONTINUOUS WAVE CROSSED FIELD AMPLIFIER
SFD-33-IDR-4 N64-30668 22-09

FREQUENCY CONVERTER UNITS FOR C-BAND, L-BAND, S-BAND, AND X-BAND
IDR-3 N64-31181 22-09

NOISE-FIGURE MEASUREMENTS OF X-BAND WAVEGUIDE MIXER WITH TUNNEL DIODE
AFCRL-64-547 N64-31807 23-09

HIGH POWER X-BAND GENERATOR - KLYSTRON AMPLIFIER
RADC-TDR-64-451 N64-33548 24-09

X-RAY
COMPARATIVE BIOLOGICAL EFFECT OF FAST NEUTRONS AND X-RAYS UPON MOUSE REPRODUCTIVE SYSTEM
JPRS-21521 N64-10326 01-16

RADIATION HAZARD IN X-RAY CLINICS, CAPACITOR DOSIMETER FOR X-RAY AND GAMMA RADIATION, AND ELECTROKYMOGRAPHS
JPRS-17533 N64-10561 01-16

SOVIET BETATRON PRODUCING 25-MEV X-RAYS
JPRS-18505 N64-10771 02-23

AUSTENITIC STEEL TRANSFORMATION IN MIDDLE REGION - DIFFUSION REDISTRIBUTION OF CARBON
N64-11148 02-18

REVERSE MARTENSITIC TRANSFORMATION AND THERMODYNAMIC EQUILIBRIUM N64-11149 02-18

EFFECTS OF CHRONIC IRRADIATION ON CIRCULATION IN WORKERS EXPOSED TO OVERDOSES OF X-RAYS AND GAMMA RAYS - INDUSTRIAL SAFETY N64-12749 04-16

PROTECTION AND INDUSTRIAL SAFETY FOR WORKERS WITH X-RAY MACHINES - RADIATION HAZARD
N64-12750 04-16

INHIBITION BY X-RAYS & CHEMICAL AGENTS OF ENZYMES WHICH CATALYZE METABOLISM OF FOREIGN CHEMICALS IN MAMMALIAN TISSUE - TOXICOLOGY & IONIZING RADIATION
N64-13502 05-16

K-BANDS OF X-RAY SPECTRUM OF IRON AND CHROMIUM DURING MAGNETIC TRANSFORMATIONS OF IRON-CHROMIUM ALLOYS N64-16221 08-23

X-RAY PRODUCTION IN SUPERNOVA REMNANTS - HYPOTHESES FOR EXISTENCE OF X-RAY SOURCE IN CONSTELLATION SCORPIO
NASA-CR-53591 N64-18431 10-05

INFLUENCE OF RADIOACTIVE THYMIDINE ON X-RADIATION EFFECTS ON DESOXYRIBONUCLEIC ACID SYNTHESIS
N64-19150 11-16

HIGH PERFORMANCE COLD CATHODE FLASH X-RAY TUBE
CR-6 N64-19802 12-23

RADIO AND X-RAY EMISSION OF SOLAR FLARES
SRN-50 N64-21755 15-28

PROBLEMS OF RADIATION DOSIMETRY IN X-RAY DIAGNOSIS AND TREATMENT N64-22732 16-16

RADIATION OF SOFT X-RAYS BY SOLAR CORONA
NASA-TT-F-8811 N64-22932 16-28

X-RAY INVESTIGATION OF DISTORTION OF CRYSTALLINE STRUCTURE OF STEEL AND RED COPPER SUBJECTED TO FATIGUE TESTING N64-23835 16-33

X-RAY STUDIES OF SAPPHIRE CRYSTAL
AFCRL-64-423 N64-24200 16-25

AEROBEE ROCKET MEASUREMENT OF SOFT X-RAY FLUXES USING THIN WINDOW GEIGER COUNTERS
ASE-394 N64-24994 17-28

RECORDING METHODS FOR X-RAY OR GAMMA RADIATION HYPERVELOCITY IMPACT STUDIES
REPT.-4728-1200-VI N64-25243 17-15

MEASUREMENT OF CONTINUOUS X-RAY SPECTRA USING ABSORPTION METHOD
AFWL-TDR-64-36 N64-26177 18-23

DETECTION OF BREMSSTRAHLUNG X-RAY RADIATION AT BALLOON ALTITUDES N64-26602 18-28

X-RAY SPECTRA OF SUPERCONDUCTORS
JPRS-25289 N64-27176 19-25

ELECTRON X-RAY SPECTRA OF SUPERCONDUCTORS
N64-27177 19-25

X-RAY SPECTRUM OF SUPERCONDUCTOR COMPOUND COPPER SULFIDE N64-27178 19-25

SURFACE X-RAY EMISSION FROM NEUTRON STARS
NASA-RP-276 N64-27354 19-05

AVERAGE DIFFUSION OF X-RAYS MEASURED BY GONIOMETER
N64-29713 21-21

EFFECT OF GAMMA AND X-RADIATION ON MULTIPLIER PHOTOTUBES
USNRDL-TR-763 N64-29875 21-23

RELATIVE NEUTRON ABSORPTION RATES AND X-RADIATION USED FOR INSPECTION OF THICKNESS, DETECTION OF HYDROGEN, BORON, & LITHIUM, AND RADIOGRAPHIC DISCRIMINATION IN HEAVY MATERIALS
ANL-6846 N64-33235 24-23

X-RAY FLARE EMISSION ORIGINATING BEHIND SOLAR DISK - IONOSPHERIC DISTURBANCE OBSERVATIONS
AD-424481 N64-33729 24-28

X-RAY ABSORPTION
THEORY OF X-RAY ABSORPTION OF MOLECULAR BONDING IN GASES AND IONIC CRYSTALS IN SOLUTIONS
N64-16217 08-23

STRUCTURE CALCULATION OF X-RAY ABSORPTION EDGE OF ATOMS N64-16218 08-23

X-RAY ABSORPTION AND EMISSION SPECTRA OF TITANIUM IN DIELECTRIC MATERIALS N64-16219 08-23

STRUCTURE PRINCIPLES OF X-RAY K-ABSORPTION EDGE OF ATOMS IN CRYSTALS OF POTASSIUM HALIDES
N64-16220 08-23

X-RAY K ABSORPTION SPECTRUM OF NICKEL-ALUMINUM ALLOYS
TR-64-1 N64-21535 15-23

COMPOSITIONAL ANALYSIS OF FOIL AND LIQUID SAMPLES WITH N-COMPONENTS BY X-RAY ABSORPTION METHOD
USAELRDL-TR-2457 N64-22722 15-07

ABSORPTION CORRECTION TABLES FOR MICROPROBE ANALYSIS
NLCO-914 N64-31470 23-23

RHENIUM DETERMINATION IN RHENIUM-URANIUM-ZIRCONIUM CARBIDE USING X-RAY ABSORPTION EDGE METHOD
LA-3135 N64-33879 24-07

X-RAY ANALYSIS
X-RAY ANALYSIS OF SOLUBILITY OF TITANIUM, YTTRIUM, ZIRCONIUM, AND NICKEL IN BERYLLIUM
JPRS-17681 N64-10565 01-18

X-RAY STUDY OF ORDER-DISORDER IN ALLOYS - BIBLIOGRAPHY
AD-422006 N64-12035 03-25

COMPUTER PROGRAM FOR X-RAY RADIAL SCAN DATA PROCESSING
ONR-TR-33A N64-12992 04-20

X-RAY AND RADIOCHEMICAL ANALYSIS OF PROTACTINIUM FLUORIDE N64-15656 07-07

SINGLE-CRYSTAL X-RAY ANALYSIS OF 1-ETHYLDECABORANE MOLECULAR STRUCTURE N64-18808 11-07

X-RAY ANALYSIS OF MICROSCOPIC DIFFRACTION OF RUBY CRYSTAL STRUCTURES N64-20931 14-25

NEW POLYTYPES OF SILICON CARBIDE USING LAUE METHOD OF X-RAY ANALYSIS N64-23007 16-07

X-RAY INVESTIGATION OF MATERIALS N64-23831 16-33

X-RAY INVESTIGATION OF FATIGUE MECHANISM OF ANNEALED AND PREHARDENED STEEL N64-23832 16-33

X-RAY INVESTIGATION OF FATIGUE OF SINGLE CRYSTALS OF ALUMINUM AT NORMAL AND LOW TEMPERATURES N64-23833 16-33

X-RAY INVESTIGATION OF FATIGUE MECHANISM IN SINGLE CRYSTALS OF METALS AT NORMAL AND LOW TEMPERATURES N64-23834 16-33

X-RAY INVESTIGATION OF DISTORTION OF CRYSTALLINE STRUCTURE OF STEEL AND RED COPPER SUBJECTED TO FATIGUE TESTING N64-23835 16-33

X-RAY INVESTIGATION OF EFFECTS OF SECOND AND THIRD KIND DURING FATIGUE TESTING OF SILICON STEEL N64-23836 16-33

X-RAY INVESTIGATION OF SURFACE LAYERS OF METAL DURING ROLLING FRICTION N64-23837 16-33

X-RAY INVESTIGATION OF DISTORTION OF STRUCTURE OF STEEL DURING ROLLING FRICTION N64-23838 16-33

X-RAY INVESTIGATION OF RESIDUAL STRESSES OF FIRST AND THIRD KIND DURING WEAR OF STEEL SPECIMENS IN PROCESS N64-23839 16-33

X-RAY ANALYSIS OF WEAR OF METALS WITH PREHARDENED SURFACE N64-23840 16-33

X-RAY ANALYSIS OF SHOT PEENING OF STEEL N64-23841 16-33

X-RAY ANALYSIS OF DISTORTIONS OF CRYSTALLINE STRUCTURES IN SURFACE LAYERS OF METAL SUBJECTED TO POWER CUTTING N64-23842 16-33

X-RAY ANALYSIS OF METEORITIC COMPOSITION N64-25060 17-05

X-RAY CRYSTAL ANALYSIS - SUBSTITUTED HETEROCYCLIC THIAZOLINE
AD-600436 N64-26538 18-07

X-RAY ANALYSIS OF RECRYSTALLIZATION OF BORIDES OF TITANIUM, ZIRCONIUM, AND MOLYBDENUM AND CARBIDES OF TITANIUM AND TUNGSTEN
JPRS-16059 N64-28632 20-07

CHEMICAL STABILITY, LIQUID PROPELLANT, VISIBLE SPECTROSCOPY, GAS CHROMATOGRAPHY, X-RAY ANALYSIS, AND RADIO FREQUENCY SPECTROSCOPY - MINUTES OF COMMITTEE REPORTS
CPIA-PUBL-30A N64-31288 22-07

X-RAY CRYSTALLOGRAPHIC AND POWDER DIFFRACTION ANALYSIS OF GROUP IV A AND V A PHENYL COMPOUNDS
ASD-TDR-63-673 N64-31707 23-07

ELECTRIC AND CHEMICAL PROPERTIES OF BARRIER LAYER METAL OXIDES, X-RAY ANALYSIS OF STEEL CRYSTAL STRUCTURES, AND SPECTRAL ANALYSIS OF ALLOYS
JPRS-26774 N64-32842 24-18

CRYSTAL STRUCTURE AND FRAGMENTATION IN STEEL FROM FATIGUE TEST X-RAY ANALYSIS N64-32845 24-18

FATIGUE TESTS OF COLD WORKED STEELS - X-RAY ANALYSIS OF MICRODISPLACEMENT N64-32846 24-18

X-RAY ANALYSIS OF CRYSTAL STRUCTURE CHANGES IN COPPER ALLOYS DURING AGING N64-32848 24-18

X-RAY DIFFRACTION
SINGLE CRYSTAL X-RAY DIFFRACTION PATTERN FOR HODGKINSONITE MINERAL
SC-4964/RR/ N64-10427 01-12

X-RAY DIFFRACTION METHOD APPLIED TO DEFORMED METAL AND ALLOY TO REVEAL DISLOCATION STRUCTURE AND PLASTIC PROPERTIES N64-10791 02-18

MICRO X-RAY DIFFRACTION OF WHISKERS GROWN FROM FERROUS CHLORIDE SOLUTION
ASD-TDR-63-643 N64-11459 03-25

COMPUTER PROGRAM FOR CONVERSION OF X-RAY POWDER PATTERN MEASUREMENTS TO REFINED D-SPACING
IS-683 N64-11776 03-28

X-RAY DIFFRACTION ANALYSIS OF FIRST ORDER RESIDUAL STRESSES APPEARING DURING FINE MACHINING OF STEEL
JPRS-22306 N64-11784 03-17

VAPOR PRESSURE OF INDIUM SULFIDES AS FUNCTIONS OF COMPOSITION AND TEMPERATURE - X-RAY DIFFRACTION & MASS SPECTROMETRIC DETERMINATION
UCRL-10857 N64-13213 04-19

X-RAY DIFFRACTION ANALYSIS OF PULSED RADIATION EFFECT ON AGING OF QUARTZ CRYSTAL RESONATORS
AD-415412 N64-14121 05-09

X-RAY DIFFRACTION RESEARCH ON METAL AND ALLOY CRYSTALLINE STRUCTURES
JPRS-23510 N64-16216 08-23

X-RAY DIFFRACTION OF FATIGUE MECHANISM OF FERROUS AND NONFERROUS METALS AND ALLOYS N64-16223 08-23

CURVES OF X-RAY SCATTERING INTENSITY AND OF ATOMIC DISTRIBUTION OF LIQUID METALS N64-16224 08-23

SINGLE CRYSTAL AND X-RAY DIFFRACTION METHODS FOR STUDING CRYSTAL STRUCTURE OF LEAD CHLORIDE N64-16687 08-25

METALLOGRAPHY AND X-RAY DIFFRACTION STUDY OF SAMARIUM-TYPE INTERMEDIATE PHASE IN RARE EARTH BINARY SYSTEMS
DRI-2141 N64-17278 09-25

ANOMALOUS DIFFRACTION OF X-RAYS
AMRA-TR-63-32 N64-19105 11-23

X-RAY DIFFRACTION AND OPTICAL MICROSCOPIC DATA ON PHASES IN BINARY OXIDES
BM-RI-6428 N64-19294 11-19

QUANTITATIVE SILICON DIOXIDE DETERMINATION OF SILICATE MATERIALS BY X-RAY DIFFRACTION OF GLASS
NASA-CR-53929 N64-19939 12-23

MOLECULAR STRUCTURE DETERMINATION BY ONE DIMENSIONAL X-RAY DIFFRACTION METHOD
FTR-1 N64-21221 14-07

PRECISE TEMPERATURE MEASUREMENT OF DEBYE-SCHERRER SPECIMENS IN HIGH TEMPERATURE X-RAY DIFFRACTION MEASUREMENT OF THERMAL EXPANSION
LA-2687 N64-21873 15-13

CRYSTAL STRUCTURE CALCULATIONS SYSTEM - X-RAY 63

FOR THE IBM 709, 7090, AND 7094 COMPUTER
NASA-CR-56479 N64-22419 15-25

IDENTIFICATION OF CRYSTALLINE MINERALS IN ATMOSPHERIC DUST BY X-RAY DIFFRACTION AND INFRARED ABSORPTION
ERDA-141 N64-24336 17-23

RAPID SCANNING X-RAY DIFFRACTION FOR STUDY OF ISOTHERMAL CRYSTALLIZATION RATE FOR POLYPROPYLENE FILMS
ONR-TR-58 N64-25030 17-25

PHOTOGRAPHIC AND IONIZATION RECORDING OF X-RAY DIFFRACTION ANALYSES OF POLYVINYL ALCOHOL FIBERS
FTD-TT-64-319/1&2&4 N64-25469 17-19

X-RAY DIFFRACTION ANALYSIS OF CHRYSOBERYL /ALUMINUM-BERYLLIUM OXIDE/ CRYSTAL STRUCTURE, SYNTHESIS, AND MAGNETIC PROPERTIES
TR-183 N64-26641 18-25

HAFNIUM-TANTALUM EQUILIBRIUM DIAGRAM OBTAINED BY OPTICAL PYROMETRY, METALLOGRAPHY, DIFFERENTIAL THERMAL ANALYSIS, AND X-RAY DIFFRACTION
BM-RI-6521 N64-28624 20-18

X-RAY DIFFRACTION MEASUREMENTS OF CRYSTAL ORIENTATION RATE IN CRYSTALLINE POLYMERS SUBJECTED TO VIBRATIONAL STRESS
ONR-TR-69 N64-30175 21-25

DISTRIBUTION ANALYSIS OF CRYSTALLITE SIZES FROM DETAILED PROFILES OF X-RAY DIFFRACTION LINES OF POWDER
SR-13 N64-31071 22-25

OXIDIZING, NEUTRAL, REDUCING, OR EVACUATED ATMOSPHERIC ENVIRONMENT CHARACTERISTICS OF HIGH TEMPERATURE X-RAY DIFFRACTOMETER FOR RESEARCH STUDIES
ARL-64-82 N64-33021 24-15

X-RAY DIFFRACTION METHOD OF RESIDUAL STRESS MEASUREMENTS ON SILICON BRONZE AND ALPHA BRASS SAMPLES SUBJECTED TO TENSILE DEFORMATION
OA-2067 N64-33075 24-33

STRAIN MEASUREMENT BY ELECTRON MICROSCOPY AND X-RAY DIFFRACTION AND HIGH TEMPERATURE EFFECT OF ANNEALING ON AGGLOMERATION
NASA-CR-59215 N64-33122 24-18

X-RAY DIFFRACTION OF NONPLANAR CARBANION CRYSTAL STRUCTURES N64-33201 24-07

X-RAY EQUIPMENT
RADIATION EFFECTS LABORATORY FACILITIES - LINEAR ACCELERATOR, FLASH X-RAY MACHINES, COBALT 60 RADIATION SOURCE, AND HIGH VACUUM EQUIPMENT N64-20714 13-10

X-RAY FLUORESCENCE
CONTINUOUS STREAM ANALYSIS OF URANIUM SOLUTIONS OF X-RAY FLUORESCENCE - SPECTROGRAPHY
MCW-1477 N64-10431 01-07

X-RAY FLUORESCENCE DETERMINATION OF CHLORIDE IN BERYLLIUM METAL
Y-1447 N64-11284 02-07

X-RAY FLUORESCENCE ANALYSIS OF POTASSIUM, BARIUM, RUBIDIUM, STRONTIUM, TITANIUM, ZIRCONIUM, AND PHOSPHORUS
RSIC-137 N64-17656 09-07

X-RAY FLUORESCENCE ANALYSIS OF RARE EARTH ALLOYS WITH MANGANESE
AD-428773 N64-19931 12-23

REFERENCE TABLES OF X-RAY FLUORESCENCE LINES FOR TOPAZ CRYSTAL
Y-1470-B N64-21038 14-23

X-RAY FLUORESCENCE TABLES - LITHIUM FLUORIDE CRYSTAL
Y-1470-C N64-21039 14-25

X-RAY FLUORESCENCE TABLES FOR ETHYLENEDIAMINE DETROTARTRATE
Y-1470-D N64-21742 15-25

X-RAY FLUORESCENCE TABLES - GYPSUM CRYSTAL
Y-1470-E N64-21854 15-25

X-RAY FLUORESCENCE STUDY OF OSMIUM TETROXIDE-TRIGLYCERIDE INTERACTION AS FUNCTION OF DEGREE OF UNSATURATION N64-22863 16-16

X-RAY FLUORESCENCE TABLES - MICA-80 CRYSTAL
Y-1470-G N64-23624 16-23

FLUORESCENT X-RADIATION FROM LUNAR SURFACE AND DETECTION OF OTHER X-RAY SOURCES IN NIGHT SKY
ASE-426 N64-25043 17-28

X-RAY FLUORESCENCE CAMERA
NRL-6061 N64-25621 17-15

FORTRAN COMPUTER PROGRAM FOR COMPUTATION OF TABLES OF X-RAY FLUORESCENCE SPECTRAL LINES
Y-1470-A N64-25865 18-07

WINDOWLESS TUBE SPECTROMETER FOR X-RAY FLUORESCENT ANALYSIS OF LIGHT ELEMENTS N64-26082 18-07

X-RAY FLUORESCENCE DATA OBTAINED THROUGH FIXED CRYSTAL EVACUATED CAMERA
NRL-6096 N64-27959 20-07

REFERENCE TABLE OF X-RAY FLUORESCENCE LINES FOR BARIUM STEARATE CRYSTAL
Y-1470-I N64-30769 22-25

HOMOGENEITY OF CADMIUM SELENIDE-CADMIUM SULFIDE SOLID SOLUTIONS BY X-RAY FLUORESCENCE
GNE/PHYS/64-6 N64-33759 24-25

X-RAY INSPECTION
IONIC STRUCTURAL ANALYSIS OF CHLORO-ARSENIC-FLUORIDE BY X-RAY INSPECTION AND MOLECULAR WEIGHT DETERMINATIONS
AD-424714 N64-13099 04-26

NONDESTRUCTIVE INSPECTION & TESTING OF FIBERGLASS REINFORCED PLASTIC MISSILE CASES & STRUCTURAL MATERIALS BY USE OF X-RAY TELEVISION EQUIPMENT
WAL-TR-142.5/2-8 N64-20319 13-17

EXAMINATION OF RARE EARTH MANGANESE ALLOYS BY METALLOGRAPHIC AND X-RAY METHODS
TN-5 N64-20401 13-18

X-RAY RADIOGRAPHY FOR OBSERVATION OF FAILURE MODES IN SEMICONDUCTOR DEVICES N64-20998 14-15

X-RAY INSPECTION OF FUSED CRUST OF KUNASHAK STONE METEORITE N64-25061 17-05

X-RAY IRRADIATION
RECOVERY OF REPRODUCTION CAPACITY OF X RAY IRRADIATED YEAST CELLS
JPRS-21619 N64-10118 01-16

IRRITATING EFFECT OF X-RAY IRRADIATION IN RABBITS
JPRS-19806 N64-11353 02-16

IONIZING & X-RAY RADIATION EFFECTS ON MICE - GLANDS & PROTECTIVE SUBSTANCES
JPRS-20421 N64-11355 02-16

EFFECT OF PROTECTIVE SUBSTANCES ON REACTIVITY CHANGES OF THIOL GROUPS IN LIVER OF X-RAY IRRADIATED MICE
JPRS-22125 N64-11359 02-16

X-RAY IRRADIATION EFFECT ON PROTHROMBIN AND THROMBOPLASTIC FORMATION IN BLOOD COAGULATION SYSTEM N64-11608 03-16

X-RADIATION EFFECTS ON LIFESPAN, & CARDIOVASCULAR AND REPRODUCTIVE SYSTEMS OF DOG
UCD-107 N64-12111 03-16

ENCYCLOPEDIA DESCRIPTIONS OF AIR REGENERATION, ROENTGEN, ROENTGEN MACHINES, & RESPIRATORS
JPRS-22213 N64-12139 03-16

MICROWAVE MODIFICATION OF X-RAY LETHALITY IN MICE
RADC-TDR-63-352 N64-12270 03-16

PAPERS ON INDUSTRIAL SAFETY INCLUDING TOXIC AGENTS, CHRONIC IRRADIATION EFFECTS, AND X-RAY WORKERS SAFETY
JPRS-22194 N64-12747 04-16

REGENERATION OF RAT LIVER AFTER LOCAL X-RAY IRRADIATION N64-12796 04-16

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE AND SHIELDING AGENT ACTION AFTER REPEATED IRRADIATION
JPRS-22082 N64-12886 04-16

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE N64-12887 04-16

EFFECT OF X-RAY IRRADIATION DURING HIBERNATION ON TISSUE CATECHOLAMINE CONTENTS N64-12943 04-16

SURVIVAL TIME OF MICE PROTECTED WITH NITRO-SUBSTITUTED HYDROCARBONS AFTER LETHAL DOSE OF X-RAYS N64-13507 05-16

MORTALITY RATE OF MICE HOUSED IN PLASTIC & METAL CAGES AFTER SINGLE X-RAY DOSE N64-13509 05-16

COMPARATIVE STUDY BETWEEN 2-MERCAPTOETHYLAMINE HYDROCHLORIDE AND P-AMINOPROPIOPHENONE FOR X-RAY AND HIGH ENERGY PROTON IRRADIATION SHIELDING N64-13510 04-10

INCREASED DESOXYRIBONUCEASE ACTIVITY UNDER X-RAY IRRADIATION IN LIVER & SPLEEN N64-13694 05-16

CHANGES IN TRANSITIONAL EPITHELIUM IN RATS AFTER X-RAY IRRADIATION N64-14253 06-16

TOTAL BODY X-IRRADIATION OF BIRDS OF DIFFERENT SPECIES
JPRS-23189 N64-15153 07-16

ACTH INJECTION OF RATS IRRADIATED WITH X-RAYS, AND ORGAN PERMEABILITY CHANGES N64-15681 07-16

EFFECT OF INJECTION OF BONE MARROW CELLS ON MORPHOLOGICAL MANIFESTATIONS OF INFLUENZA IN X-RAY IRRADIATED MICE
JPRS-24056 N64-18096 10-16

SYMMETRICAL CHANGES IN SINGLE CRYSTAL LATTICE DUE TO X-RAY RADIATION
NLCO-903 N64-18838 11-25

INJURIES FROM X-IRRADIATION
JPRS-24185 N64-18967 11-16

BRAGG ANGLES FOR SOFT X-RAY EMISSION LINES USING POTASSIUM ACID PHTHALATE AND RUBIDIUM ACID PHTHALATE ANALYZING CRYSTALS
NL-TDR-64-2 N64-22374 15-25

BIOELECTRIC ACTIVITY OF VISUAL AND PARIETAL REGIONS OF CEREBRAL CORTEX STUDY BY X-RAY
FTD-TT-63-231 N64-22646 15-16

MAPPING OF GENETIC SITES ON CHROMOSOMES OF YEAST BY X-RAY IRRADIATION AND INDUCED MUTATION N64-22852 16-16

GLASS VACUUM CHAMBER WITH ALUMINUM ELECTRODES FOR MEASURING X-RAY RADIATION FROM 0.4 TO 1,000,000 ROENTGENS PER MINUTE
FTD-TT-64-31/162 N64-23306 16-15

X-RAY IRRADIATION EFFECTS ON WORK CAPACITY AND LIFESPAN OF DOGS
UCD-472-109 N64-25111 17-16

X-RAY IRRADIATION EFFECT ON DEVELOPMENT OF ENZYME ACTIVITY IN LIVER OF YOUNG RATS
SAM-TDR-64-29 N64-25340 17-16

X-RAY IRRADIATION 1,1-DIMETHYHYDRAZINE AND HYDRAZINE AT ROOM TEMPERATURE
NASA-TN-D-2452 N64-27225 19-26

EFFECTS OF X-RAY IRRADIATION ON ENZYME ACTIVITY IN BRAIN AND MUSCLE TISSUE OF RATS
JPRS-25630 N64-27319 19-14

DOSE-DEPENDENT DEPRESSION OF DEOXYRIBONUCLEIC ACID STUDY BY X-RAY IRRADIATION AND BROMURACIL DEOXYRIBOSIDE IN MAMMALIAN CELLS
NASA RP-245 N64-27352 19-14

MORTALITY OF RAT FETUS AFTER IRRADIATION OF PARENTAL GAMETES
NASA TT-F-9036 N64-27369 19-14

INACTIVATION AND RECOVERY OF MICROORGANISMS AFTER TREATMENT WITH ULTRAVIOLET LIGHT, X-RAYS, OR NITROGEN MUSTARD N64-30786 22-14

X-RAY PROTECTIVE EFFECTS OF SEROTONIN AND ALLIED SUBSTANCES
REPT.-1 N64-32583 23-14

X-RAY PHOTOGRAPHY
POLAROID X-RAY CAMERA FOR DETERMINING ORIENTATION OF SINGLE CRYSTAL FILMS & ALIGNING CRYSTALS N64-10307 01-23

PRECISE DETERMINATION OF LATTICE PERIODS OF BORON CARBIDES OF 82.75 TO 86.75 COMPOSITION BY ROENTGENOGRAPHS - LARGE-ANGLES METHOD N64-10676 02-19

RESTRAINT APPARATUS FOR THORACIC ROENTGENOGRAPHIC EXAMINATION OF UNANESTHETIZED PRIMATES
SAM-TDR-63-93 N64-12865 04-14

ELECTRON DIFFRACTION AND X-RAY PHOTOGRAPHY OF OXIDE FILM ON NIOBIUM AFTER CONTROL OXIDATION N64-13732 05-23

X-RAY PHOTOGRAPHIC STUDY OF BERYLLIUM SINGLE CRYSTAL COMPRESSION AND DEFORMATION AFTER ZONE RECRYSTALLIZATION N64-13738 05-18

DIVERGENT X-RAY PHOTOGRAPHY OF IRON WHISKERS
RTD-TDR-63-4198 N64-16873 08-23

X-RAY MICROPHOTOGRAPHY OF ALPHA PLUTONIUM WITH BERG-BARRETT X-RAY CAMERA
UCRL-7651 N64-17075 09-23

CRYSTAL LATTICE PARAMETERS AND SPACE GROUPS OF AMINOBORANES DETERMINED BY X-RAY PHOTOGRAPHY
FTR-1 N64-29724 21-07

X-RAY AND DIELECTRIC MEASUREMENTS OF SODIUM NIOBATE AT VARYING TEMPERATURES
QTSR-2 N64-33671 24-25

X-RAY SCATTERING
OPTIMIZATION OF CURVE OF INTENSITY OF X-RAY SCATTERING N64-16225 08-23

X-RAY SCATTERING FROM CRYSTAL LATTICE OF ALLOYS - STUDY OF ATOMIC INTERACTIONS N64-17041 09-25

ABSORPTION CORRECTIONS FOR INTENSITY OF X-RAYS SCATTERED BY WEAKLY ABSORBING POLYTYPE-CRYSTALLINE MATERIALS
BM-RI-6455 N64-21406 14-19

GRIDS FOR REDUCING SCATTERED X-RAYS IN MEDICAL RADIOGRAPHY N64-23275 16-14

MEASURING FREE STREAM AIR DENSITY BY X-RAY SCATTERING
FDL-TDR-64-29 N64-27701 19-23

COLLIMATION SYSTEM, DETECTOR, AND MONOCHROMATOR FOR SMALL ANGLE X-RAY SCATTERING EXPERIMENTS
TR-3 N64-29683 21-23

AVERAGE DIFFUSION OF X-RAYS MEASURED BY GONIOMETER N64-29713 21-23

GROWTH OF METASTABLE LIQUID IMMISCIBILITY IN GLASS AS FUNCTION OF HEAT TREATMENT TIME - SMALL ANGLE X-RAY SCATTERING MEASUREMENT METHOD
TR-4 N64-30115 21-25

X-RAY SPECTROGRAPHY
X-RAY SPECTROSCOPY AND SPECTROGRAPHY FOR CONTROL OF ALUMINUM, TITANIUM, AND STEEL WELDING
OTS-63-22058 N64-10589 01-17

COSMIC RADIATION N64-15292 07-28

DETERMINATION OF TRACE AMOUNTS OF INORGANIC COMPOUNDS IN POLYPHENYLS BY X-RAY SPECTROGRAPHY
EUR-478.F N64-16926 09-07

X-RAY SPECTROGRAPHIC ANALYSIS FOR TRACE AMOUNTS OF TANTALUM IN NIOBIUM
BM-RI-6483 N64-26515 18-07

X-RAY SPECTROMETRY
BRAGG ANGLES OF ALPHA QUARTZ USING DOUBLE CRYSTAL X-RAY SPECTROMETER N64-21171 14-25

X-RAY SPECTROSCOPY
X-RAY SPECTROSCOPY AND SPECTROGRAPHY FOR CONTROL OF ALUMINUM, TITANIUM, AND STEEL WELDING
OTS-63-22058 N64-10589 01-17

HEAT RESISTANT COMPOUNDS OF TRANSITION ELEMENTS - LATTICE STRUCTURE, X RAY SPECTROSCOPY, PHYSICAL PROPERTIES OF REFRACTORY MATERIAL
JPRS-17446 N64-10669 02-01

X RAY SPECTROSCOPY OF L BANDS OF NIOBIUM NITRIDE, NIOBIUM CARBIDE, NIOBIUM DIBORIDE N64-10671 02-18

X-RAY SPECTROGRAPHY OF LEVELS OF CHEMICAL ELEMENTS IN BLOOD SERUM
UCRL-10873 N64-15242 07-16

X-RAY SPECTROSCOPIC STUDIES OF IRON-MOLYBDENUM & IRON-ALUMINUM ALLOYS N64-17055 09-23

ANALYZING OR DISPERSING CRYSTAL FOR X-RAY SPECTROSCOPY
ASD-TDR-63-311 N64-30709 22-25

X-RAY STRESS MEASUREMENT
METHODS FOR MONITORING AND MEASURING X-RADIATION
SETE-228/4 N64-33248 24-23

STRESS-STRAIN ANALYSIS OF CRYSTAL LATTICE AND DUCTILE-BRITTLE TRANSITION IN TUNGSTEN BY X-RAY DIVERGENT BEAM METHOD
ML-TDR-64-220 N64-33914 24-18

X-RAY TESTING
X-RAY TESTING OF STRUCTURAL STRAIN ON SOLID PROPELLANT GRAINS
AD-423571 N64-12177 03-26

X-15 AIRCRAFT
CRYSTAL GROWTH AND KINETICS OF FORMATION
FLIGHT TEST DATA ON LONGITUDINAL, LATERAL, AND DIRECTIONAL STABILITY AND CONTROL DERIVATIVES OF X-15 AIRCRAFT
JPRS-18257 N64-10638 01-25

ANXIETY AND EXPERIENCE AS INFLUENCE ON PILOT PERFORMANCE IN TEST FLIGHTS OF X-15 AIRCRAFT N64-11884 03-05

BOUNDARY LAYER, FLIGHT CONTROL, AND STRUCTURAL DYNAMICS RESEARCH FOR X-15A AIRCRAFT N64-12910 04-04

X-15 PROJECT - HISTORY, AIRCRAFT DESIGN, OPERATIONAL SYSTEMS, & FLIGHT PROGRAM
NASA-EP-9 N64-14407 06-04

PILOT PERFORMANCE DURING BOOST OF X-15A AIRCRAFT TO HIGH ALTITUDE
NASA-TN-D-2289 N64-19002 11-14

X-15A HYPERSONIC AIRCRAFT AND APPLICATION TO SPACE EXPLORATION
NASA-RP-139 N64-20017 13-04

DESIGN, COMPATIBILITY, AND SYSTEM INTEGRATION OF REACTION CONTROL SYSTEM CONFIGURATION OF X-15A AIRCRAFT
NASA-TM-X-56002 N64-20683 13-04

EVALUATION OF X-15 FLIGHT TESTS
NASA-RP-186 N64-22066 15-04

YLR99-RM-1 ROCKET ENGINE OPERATION IN X-15A AIRCRAFT
NASA-TN-D-2391 N64-25810 17-04

BASE PRESSURE COEFFICIENTS FOR X-15 AIRCRAFT FOR MACH NUMBERS TO SIX COMPARED TO WIND TUNNEL DATA, SEMIEMPIRICAL ESTIMATES, AND THEORY
NASA-TN-D-2420 N64-27122 19-04

EVALUATION OF ADAPTIVE CONTROL SYSTEM FOR X-15 AIRCRAFT
NASA-TM-X-56008 N64-27261 19-06

INTEGRATED DISPLAY SYSTEM FOR X-15A AIRCRAFT
NASA-CR-58177 N64-27380 19-04

X-20 AIRCRAFT
REACTION CONTROL SYSTEM FOR X-20 SPACECRAFT - DYNA SOAR SPACE GLIDER
REPT.-8233-933017 N64-21686 15-06

X-20A AIRCRAFT NOSE CAP
REPT.-311.25 N64-21776 15-30

REENTRY CONDITION SIMULATOR FOR TESTING NOSE CAPS OF DYNA-SOAR SPACE GLIDER
REPT.-311.11 N64-21820 15-10

MANUFACTURING PLANS FOR DYNA-SOAR PROGRAM
D2-80715 N64-21992 15-30

X-20 /DYNA-SOAR/ ACCESSORY POWER UNIT
DSR-21 N64-21995 15-30

COMPONENT RELIABILITY, HARDWARE, AND THERMODYNAMIC ANALYSIS OF DYNA-SOAR SPACE GLIDER
DSR-14 N64-21996 15-30

THERMAL INSULATION SYSTEM FOR X-20 AIRCRAFT - DYNA-SOAR SPACE GLIDER
D2-80283 N64-22245 15-13

MECHANICAL PROPERTIES OF GRAPHITE FOR USE IN STRESS ANALYSIS OF X-20 NOSE CAP GRAPHITE STRUCTURAL SHELL
REPT.-311.24 N64-22254 15-19

AUXILIARY POWER SOURCE AND SUBSYSTEMS FOR X-20 AIRCRAFT /DYNA-SOAR SPACE GLIDER/
DSR-17 N64-22261 15-06

DEFLECTIONS AND INTERNAL LOADS FOR X-20 GLIDER TRUSS STRUCTURE
D2-81242 N64-22262 15-34

AUXILIARY POWER SOURCE AND SUBSYSTEMS FOR X-20 AIRCRAFT /DYNA-SOAR SPACE GLIDER/
DSR-19 N64-22263 15-06

DYNA-SOAR PROGRAM - X-20 AIRCRAFT ACCESSORY POWER SUBSYSTEMS
DSR-20 N64-22370 15-06

TENSION AND FLEXURE TESTING OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOYS FOR X-20A AIRCRAFT
REPT.-311.23 N64-22428 15-18

AUXILIARY POWER SOURCE FOR X-20 AIRCRAFT
DSR-16 N64-22429 15-06

X-20A AIRCRAFT ACCESSORY POWER UNIT
DSR-18 N64-22430 15-06

QUALITY CONTROL OF PROTECTIVE EMITTANCE COATINGS FOR REFRACTORY ALLOYS ON X-20A AIRCRAFT
D2-81110 N64-22451 15-18

DYNA-SOAR AUXILIARY POWER UNIT THERMODYNAMIC SYSTEM - DESIGN ANALYSIS
REPT.-24-DER-63 N64-24148 16-30

AIRBORNE ELECTRONIC EQUIPMENT FOR X-20A AIRCRAFT

COMMUNICATIONS AND TRACKING SUBSYSTEM
CR-64-408-34.2-1 N64-25129 17-08

COMMUNICATIONS AND TRACKING SUBSYSTEM FOR X-20A AIRCRAFT
CR-64-408-35-1 N64-25366 17-04

FLIGHT TEST OF DYNA-SOAR SPACE GLIDER TRACKING AND COMMUNICATION SUBSYSTEMS - X-20 AIRCRAFT
CR-64-408-34.1-1 N64-25746 17-08

MICROWAVE TRANSMITTERS, ANTENNA, AND TRACKING RECEIVERS OF DYNA-SOAR SPACE GLIDER COMMUNICATION SYSTEM
CR-64-408-34.3-1 N64-25747 17-08

AEROSPACE GROUND EQUIPMENT OF X-20A AIRCRAFT COMMUNICATIONS AND TRACKING SUBSYSTEM
CR-64-408-34.4-1 N64-25748 17-08

COATED REFRACTORY ALLOYS FOR X-20 AIRCRAFT
N64-27029 19-19

STRESS ANALYSIS OF EXTERNAL FRONT WINDOW OF X-20A AIRCRAFT /DYNA-SOAR SPACE GLIDER/
SEG-TDR-64-16 N64-27446 19-34

FLIGHT CONTROL SYSTEM FOR X-20 AIRCRAFT /DYNA-SOAR SPACE GLIDER/
SEG-TDR-64-8 N64-28554 20-25

PHYSICAL CHARACTERISTICS OF PRESSURIZED SUITS EXPOSED TO SIMULATED DYNA-SOAR MISSION CONDITIONS
AMRL-TDR-64-36 N64-28565 20-16

TRANSONIC-SUPERSONIC FLUTTER MODEL OF X-20A AIRCRAFT N64-29272 21-33

X-20A NAVIGATION AND GUIDANCE REQUIREMENTS, SOLUTIONS AND EQUIPMENT
SEG-TDR-64-5 N64-29612 21-22

SKID LANDING GEAR DEVELOPMENT FOR X-20 AIRCRAFT
SEG-TDR-64-17 N64-30935 22-17

LOADING TEST DATA FOR X-20 LEADING EDGES
D2-80085, VOL. 3 N64-31241 22-13

APPLICATION OF X-20 AIRCRAFT TO FUTURE SPACE SYSTEMS
D2-81035 N64-31279 22-30

NOSE CAP FABRICATION OF X-20 AIRCRAFT
D2-80608 N64-31911 23-17

TURBULENT HEAT TRANSFER, LEAKAGE, AND PRESSURE TESTS ON X-20 AIRCRAFT IN HYPERSONIC SHOCK TUNNEL
D2-80910 N64-33574 24-13

X-21 AIRCRAFT
LAMINAR FLOW CONTROL IN X-21A AIRCRAFT
NOR-61-142 N64-25616 17-11

IN-FLIGHT NOISE MEASUREMENTS PERFORMED ON X-21A LAMINAR FLOW AIRCRAFT
NOR-64-91 N64-25697 17-11

FLIGHT TESTS OF X-21A AIRCRAFT TO DEMONSTRATE FEASIBILITY OF LAMINAR FLOW CONTROL
NOR-61-134 N64-26978 19-04

X-22 AIRCRAFT
X-22A RESEARCH AIRCRAFT LAYOUTS, CONTOURS, CONFIGURATION CALCULATION, AND PERFORMANCE AND WEIGHT STUDIES AS APPLIED TO WIND TUNNEL AIRPLANE MODEL DESIGNS
REPT.-2127-933001 N64-29717 21-04

FLIGHT CONTROL, VEHICLE STRUCTURES, DESIGN, SYSTEMS SUPPORT, AND WIND TUNNEL TEST PROGRAM OF X-22A TRI-SERVICE V/STOL AIRCRAFT
REPT.-2127-933006 N64-29718 21-04

WIND TUNNEL TEST RESULTS, WEIGHT CONTROL PROGRAM, AND ACOUSTIC NOISE TESTS OF X-22A TRI-SERVICE V/STOL AIRCRAFT
REPT.-2127-9330010 N64-29719 21-04

FABRICATION OF PARTS FOR MODEL X-22A TRI-SERVICE V/STOL AIRCRAFT
REPT.-2127-933011 N64-29720 21-04

TEST PLAN FOR X-22A AIRCRAFT - DESCRIPTIONS AND SPECIFICATIONS FOR PROPULSION SYSTEM, FLIGHT CONTROL, HYDRAULIC SYSTEM, ELECTRIC SYSTEM, AND INSTRUMENTATION
REPT.-2127-931001 N64-31306 22-04

DESIGN AND WIND TUNNEL TESTS ON X-22A TRI-SERVICE V/STOL AIRCRAFT
REPT.-2127-933007 N64-32297 23-04

X-22A TRI-SERVICE V/STOL AIRCRAFT - FREEZE CONFIGURATIONS, WIND TUNNEL TESTS, FLIGHT CONTROL SYSTEM REDESIGN, WEIGHT CONTROL, AND DUCT NOISE SPECIMEN TESTS
REPT.-2127-933009 N64-32298 23-04

DESIGN, PERFORMANCE, AND WEIGHT STUDIES OF X-22A V/STOL AIRCRAFT
REPT.-2127-933004 N64-32419 23-04

DESIGN WORK, PERFORMANCE, AND WEIGHT STUDIES OF X-22A V/STOL AIRCRAFT
REPT.-2127-933005 N64-32420 23-04

X-258 ROCKET ENGINE
OPERATING, HANDLING, AND STORAGE INSTRUCTIONS FOR X-258 ROCKET MOTOR
ABL/M-126 N64-31287 22-17

XB-70 AIRCRAFT
XB-70 AIRCRAFT AEROMEDICAL ASPECTS
N64-30728 22-04

XC-142 AIRCRAFT
WIND-TUNNEL TESTS & CONTROL SYSTEM BEARING TESTS FOR XC-142 TRANSPORT AIRCRAFT
SAR-3 N64-14615 06-04

DYNAMIC MODEL TESTING OF XC-142A AIRCRAFT
N64-29273 21-33

XC-142A VTOL TRANSPORT AIRCRAFT PROGRAM
MPR-27 N64-30913 22-04

XENON
REACTOR TECHNOLOGY - NUCLEAR SAFETY, PRESSURIZED WATER REACTOR, XENON OSCILLATION, MATRIX ALGEBRA, AND AUTORADIOGRAPHY OF URANIUM OXIDE
WAPD-BT-29 N64-11341 02-23

XENON AND KRYPTON AS CARRIER GASES FOR HIGHLY SENSITIVE DETECTION SYSTEM FOR GAS CHROMATOGRAPHY
N64-12945 04-07

ABSORPTION CROSS SECTIONS OF HELIUM, NEON, ARGON, KRYPTON, AND XENON FROM PHOTOIONIZATION THRESHOLDS TO 280 ANGSTROM UNITS
GCA-TR-64-3-N N64-17671 09-23

ATOMIC SCATTERING FACTOR OF NEON, ARGON, KRYPTON, AND XENON
AMRA-TR-63-15 N64-18571 11-23

OXYGEN FLUORIDE PREPARATION - CHEMICAL REACTION OF OXYGEN FLUORIDES WITH KRYPTON AND XENON
AD-435838 N64-18626 11-07

SATELLITE-BORNE XENON FLASH OPTICAL BEACON FOR USE ON RANGE CALIBRATION SATELLITE - DESIGN STUDY
EG&G-B-2730, PT. 3 N64-21241 14-06

METAL SUBSTRATE WITH LAYER OF FROZEN XENON AS SECONDARY ELECTRON EMITTER
AFCRL-64-405 N64-24931 17-09

MAGNETICALLY INDUCED IONIZATION IN XENON
AD-600531 N64-26532 18-23

PERTURBATION OF ABSORPTION SPECTRA OF CRYSTALLINE ARGON AND KRYPTON IN VACUUM ULTRAVIOLET BY INTERSTITIAL ATOMS OF XENON
QTSR-1 N64-27196 19-23

DISTRIBUTION FUNCTIONS OF ARGON AND XENON FLOW THROUGH CIRCULAR ORIFICE

UVA-5-P N64-27722 19-11

RESONANCES IN ELASTIC SCATTERING CROSS SECTION OF ELECTRONS ON HELIUM, NEON, KRYPTON, AND XENON
TR-24 N64-27792 19-23

POST-ACTIVATION DIFFUSION EMISSION OF XENON FROM GRAPHITE MATRIX URANIUM CARBIDE
EUR-1454.E N64-29776 21-23

VOLTAGE-CURRENT MEASUREMENTS OF XENON FLASHTUBES FOR DYNAMIC RESISTANCE CHARACTERISTIC DATA
RADC-TDR-64-294 N64-30941 22-09

RADIAL DENSITY AND TEMPERATURE PROFILE IN HIGH PRESSURE XENON DISCHARGE
FTP-TT-64-375/1&2 N64-33103 24-23

XENON COMPOUND
SYNTHESIS OF CRYSTALLINE SOLIDS BY VARYING PROPORTIONS OF ANTIMONY PENTAFLUORIDE AND XENON HEXAFLUORIDE
TR-49 N64-29346 21-07

XENON LIGHT
EXCITING LIGHT SOURCES FOR RUBY LIGHT QUANTUM OSCILLATORS WITH COMMON AXIS CYLINDRICAL XENON FLASH LAMP N64-17343 09-25

SATELLITE-BORNE XENON FLASH OPTICAL BEACON FOR MISSILE RANGE CALIBRATION SATELLITE
EG&G-B-2730 N64-20168 13-32

DELIVERY APPARATUS FOR HIGH INTENSITY FLASHES FROM XENON-FILLED FLASH TUBE
SAM-TDR-64-36 N64-33352 24-14

XENON 133
POSTIRRADIATION RELEASE OF XENON-133 FROM OXIDE CERAMICS
BMI-1651 N64-14050 05-23

XH-51 HELICOPTER
WIND TUNNEL TESTS OF XH-51 HELICOPTER FUSELAGE AND RIGID ROTOR
NASA-TN-D-2392 N64-25915 18-03

AERONAUTICS - 25TH AIR EXPOSITION, HELICOPTER PROGRAM, RADIO ALTIMETERS AND MONITORS, AND XH-51 HELICOPTER N64-31520 23-04

XV-5 AIRCRAFT
PROPULSION SYSTEM, GROUND RESONANCE AND STRUCTURE STATIC TESTING FOR XV-5A AIRCRAFT
QTPR-8 N64-26656 18-04

WIND TUNNEL AND GROUND TEST PLANS FOR PROPULSION SYSTEM OF XV-5A LIFT FAN FLIGHT RESEARCH AIRCRAFT
QTPR-9 N64-32148 23-04

XYLENE
POLYVINYL ALCOHOL, SELENIUM AND TELLURIUM PAPER ELECTROCHROMATOGRAPHY, AND XYLENE SEPARATION
JPRS-25070 N64-22734 16-01

YAGI ANTENNA
YAGI ANTENNA EXPERIMENT OF POLAR CAP AND AURORAL ZONE ABSORPTION N64-12422 04-12

CURRENT AND FIELD DISTRIBUTION ON PLANAR AND CURVED SLOT ARRAYS - YAGI ANTENNA FOLDED BACK FORMING CIRCULAR SLOT ARRAY
TECH. REPT.-427 N64-20022 13-09

YAGI ANTENNA ARRAY CHARACTERISTICS
WRE-TN-PAD-75 N64-26612 18-08

YAW
TWO-DEGREES-OF-FREEDOM GYROSCOPE AS SATELLITE YAW SENSOR
NASA-TN-D-2134 N64-14940 06-22

PITCHING AND YAWING MOTION OF SPINNING SYMMETRIC BLUNT-NOSED MISSILE AT HYPERSONIC SPEED
NASA-TN-D-2135 N64-17734 09-30

EULER MOMENTUM EQUATION OF YAWING MOTION OF SPINNING SHELL IN FREE FLIGHT HAVING LIQUID-FILLED CYLINDRICAL CAVITY
BRL-1233 N64-18774 11-11

FLOW FIELD OF BLUNT-NOSED SLENDER BODIES AT ARBITRARY ANGLES OF YAW
TN-R-85 N64-21555 15-02

NUMERICAL CALCULATIONS OF HYPERSONIC AIR FLOWS OVER POINTED AND SPHERICALLY TIPPED BODIES AT SMALL ANGLES OF YAW
AIAA PAPER-64-430 N64-23328 16-02

METHOD OF TEST AND RESULTS FOR PITCH AND YAW ON CAMBERED OGEE WING AT SUPERSONIC SPEEDS
ARC-R&M-3355 N64-25495 17-03

COMPUTATION OF SUPERSONIC FLOW PAST YAWED CONES BY METHOD OF INTEGRAL RELATIONS
AS-64-7 N64-28559 20-11

YEAST
RECOVERY OF REPRODUCTION CAPACITY OF X RAY IRRADIATED YEAST CELLS
JPRS-21619 N64-10118 01-16

RESTORATION RATE OF CHROMOSOME MATERIAL IN YEAST CELLS AFTER GAMMA RADIATION N64-12795 04-16

TRYPTOPHAN SYNTHETASE MUTANTS OF YEAST - SUPER-SUPPRESSOR ACTION IN RELATION TO ALLELIC MAPPING & COMPLEMENTATION
UCRL-11191 N64-17707 09-16

MAPPING OF GENETIC SITES ON CHROMOSOMES OF YEAST BY X-RAY IRRADIATION AND INDUCED MUTATION N64-22852 16-16

STIMULATING EFFECT OF HIGH FREQUENCY ULTRASONICS ON YEAST CELL REPRODUCTION N64-32955 24-16

YIELD
YIELD OF ELASTICALLY SCATTERED NEUTRONS FROM NUCLEAR REACTION CARBON 12 /N,N/ CARBON 12
ORNL-3615 N64-25547 17-23

YIELD POINT
YIELD LOCUS FOR ALUMINUM-TITANIUM ALLOY
PR-5 N64-33873 24-18

DEFORMATION BEHAVIOR, DISLOCATION VELOCITY MEASUREMENTS, STRAIN RATE SENSITIVITY, AND YIELD POINT PHENOMENA IN VARIOUS MATERIALS - FLOW STRESS OF PURE AND DOPED ALKALI HALIDES
ARL-64-135 N64-33955 24-25

YIELD STRENGTH
STRENGTH OF METAL - RATE OF STRAIN DEPENDENCE - EFFECT OF LOADING ON COEFFICIENT VISCOUS DAMPING AND YIELD STRENGTH
ARL-63-1527 N64-12305 03-18

TENSILE AND YIELD STRENGTH OF POWDERED ALUMINUM ALLOYS
REPT.-7-63-AP59-S N64-12867 04-18

HEAT OF SUBLIMATION AND HIGH TEMPERATURE YIELD STRENGTH OF ALLOYS N64-17091 09-18

STRENGTHENING MECHANISM IN MARAGING STEELS - THERMAL OR ATHERMAL COMPONENT
TDR-269/4240-10/-10 N64-17359 09-18

YIELD STRENGTH OF DECARBURIZED IRON
TR-4 N64-23648 16-18

TENSILE & YIELD STRENGTH OF MARAGING STEELS N64-24354 17-34

RELATIONSHIP OF YIELD STRENGTH TO ATOMIC BONDING IN TELLURIDES OF ZINC, CADMIUM, AND MERCURY
AD-418732 N64-32971 24-23

YLR99-RM-1 ROCKET ENGINE
YLR99-RM-1 ROCKET ENGINE OPERATION IN X-15A AIRCRAFT
NASA-TN-D-2391 N64-25810 17-04

YOUNGS MODULUS
RESIDUAL STRESSES, INTERNAL FRICTION, AND YOUNGS MODULUS OF URANIUM
BMI-1658 N64-14160 05-18

METHOD FOR DETERMINING ELASTIC MODULUS OF GRAPHITE AT TEMPERATURES TO 3000 DEG C
WADD-TR-61-72, VOL. 23 N64-18026 10-19

YOUNGS MODULUS & BREAKING STRENGTH OF BODY TISSUES
AMRL-TDR-64-23 N64-22317 15-16

ANISOTROPY IN YOUNGS MODULUS FOR 18 PERCENT NICKEL MARAGING STEEL N64-24360 17-18

ELLIPTICAL RADIATION FURNACE APPARATUS FOR DETERMINATION OF DYNAMIC YOUNG MODULUS AND INTERNAL FRICTION UTILIZING TRANSVERSE FREE VIBRATION IN VACUUM
DMS-63-17 N64-31690 23-25

LOW TEMPERATURE ELASTIC PROPERTIES OF ELASTOMERS - MODULUS OF RIGIDITY, BRITTLE TEMPERATURE, AND YOUNGS MODULUS.
NASA-TM-X-53137 N64-33871 24-19

YT-2 AIRCRAFT
SPIN FROM NORMAL, ACCELERATED, AND VERTICAL ENTRIES OF YT-2B AIRCRAFT
NATC-TR-FT2122-19R-64 N64-21569 15-04

YTTERBIUM
ELECTRICAL RESISTANCE OF BISMUTH, YTTERBIUM, AND DYSPROSIUM
UCRL-11220 N64-17708 09-25

YTTRIUM
X-RAY ANALYSIS OF SOLUBILITY OF TITANIUM, YTTRIUM, ZIRCONIUM, AND NICKEL IN BERYLLIUM
JPRS-17681 N64-10565 01-18

MASS SPECTROMETRIC DETERMINATION OF DISSOCIATION ENERGY OF SCANDIUM, YTTRIUM, LANTHANUM, & YTTRIUM-LANTHANUM ALLOY
WADD-TR-60-782, PT. 19 N64-14514 06-07

ABUNDANCE OF RARE EARTH ELEMENTS, YTTRIUM AND SCANDIUM, IN NAKHLITIC ACHONDRITES - METEORITE COMPOSITION N64-17561 09-05

RARE EARTH, YTTRIUM, AND SCANDIUM ABUNDANCES IN METEORITIC AND TERRESTRIAL MATTER
NASA-CR-50173 N64-18322 10-05

CHROMATOGRAPHIC CONCENTRATION AND SPECTROGRAPHIC DETERMINATION OF CADMIUM, YTTRIUM, SCANDIUM AND LANTHANON TRACES IN URANIUM METAL
EUR-587.E N64-20878 14-07

EQUILIBRIUM PHASE DIAGRAM FOR YTTRIUM-OXYGEN SYSTEM
IS-812 N64-27341 19-18

SEPARATION OF LANTHANIDE SERIES AND YTTRIUM USING PHOSPHONIC AND IMINODIACETIC ACID RESINS
BM-RI-6510 N64-27971 20-07

MICROSTRUCTURE AND MECHANICAL PROPERTIES OF CAST IRON WITH YTTRIUM AS NODULIZER
REPT.-64-730 N64-31041 22-18

SOLVENT EXTRACTION RECOVERY OF THORIUM AND YTTRIUM FROM SILICA-CONTAINING COLORADO ORES
BM-RI-6457 N64-31295 22-07

EFFECTS OF YTTRIUM & RARE EARTH METAL ADDITIONS ON ELECTROREFINED VANADIUM
BM-RI-6553 N64-33436 24-18

DETERMINATION OF YTTRIUM IN TANTALUM-YTTRIUM ALLOYS - ADDITION OF HYDROFLUORIC ACID TO ALLOY SAMPLES TO DISSOLVE TANTALUM AND CONVERT YTTRIUM TO INSOLUBLE FLUORIDE
LA-3123 N64-33467 24-07

YTTRIUM ALLOY
MASS SPECTROMETRIC DETERMINATION OF DISSOCIATION ENERGY OF SCANDIUM, YTTRIUM, LANTHANUM, & YTTRIUM-LANTHANUM ALLOY
WADD-TR-60-782, PT. 19 N64-14514 06-07

SPECTROPHOTOMETRIC DETERMINATION OF MICROGRAM QUANTITIES OF YTTRIUM IN TANTALUM
LA-3133 N64-33347 24-18

YTTRIUM-ALUMINUM GARNET /YAG/ CRYSTAL
YTTRIUM-ALUMINUM GARNET /YAG/ CRYSTAL, LANTHANUM ALUMINATE, & CALCIUM MOLYBDATE AS HOST MATERIALS FOR SOLID STATE ROOM TEMPERATURE LASERS
IER-3 N64-30170 21-25

YTTRIUM COMPOUND
GROWTH OF ZINC YTTRIUM COMPOUND WITH MANGANESE OXIDE FROM BARIUM BORATE METALS
S-658 N64-33945 24-25

YTTRIUM-IRON GARNET /YIG/ CRYSTAL
YTTRIUM-IRON GARNET CRYSTAL POWER LIMITER FOR TELSTAR SATELLITE COMMUNICATIONS REPEATER
N64-11086 02-06

ADVANCED MICROWAVE COMPONENTS AND TECHNIQUES - PLANAR HEXAGONAL FERRITES AND YTTRIUM-IRON GARNET CRYSTALS
RADC-TDR-63-508 N64-14312 06-19

WIDEBAND ELECTRONICALLY TUNABLE YTTRIUM-IRON GARNET NONRECIPROCAL FILTERS
W-J-63-609R20 N64-14371 06-09

S-BAND FERRITE DUPLEXER CIRCULATOR AND LIMITER DESIGN - YTTRIUM-IRON GARNET SPHERE COUPLING
USAELRDL-TR-2390 N64-14641 06-08

MAGNETOSTATIC MODES FOR MEASURING SATURATION MAGNETIZATION OF PURE AND GALLIUM SUBSTITUTED YTTRIUM-IRON GARNET
AFCRL-64-49 N64-18943 11-23

ELECTRONICALLY TUNED MICROWAVE FILTER USING SPHERE OF YTTRIUM-IRON GARNET AS TUNABLE RESONANT CIRCUIT
RE-TR-63-26 N64-19052 11-04

SPIN-WAVE ANISOTROPY IN PARALLEL PUMPING EXPERIMENTS AT X-BAND FREQUENCIES - SINGLE CRYSTAL YTTRIUM-IRON GARNET
AFCRL-64-14 N64-19124 11-25

ELECTRICALLY TUNED FILTERS USING YTTRIUM-IRON-GARNET AND GALLIUM-DOPED YTTRIUM-IRON GARNET RESONATORS
W-J-64-609R24 N64-23961 16-09

SURFACE FINISH OF SPHERES AND PRODUCTION OF SPHERES AND LIMITERS OF YTTRIUM-IRON GARNET /YIG/ CRYSTAL
SJ222-0045-3 N64-28502 20-09

YTTRIUM OXIDE
INTERNAL SILICA CONTAMINATION OF URANIUM, THORIUM, AND YTTRIUM OXIDE FUELS N64-17001 09-23

THERMAL EXPANSION OF ZIRCONIUM OXIDE STABILIZED WITH YTTRIUM OXIDE
NASA-CR-56458 N64-24037 16-18

ABSORPTION AND FLUORESCENCE SPECTRA OF EUROPIUM IN SINGLE CRYSTAL YTTRIUM OXIDE
SSD-TDR-64-113 N64-28537 20-25

THERMAL EXPANSION OF YTTRIUM OXIDE AND OF MAGNESIUM OXIDE WITH YTTRIUM OXIDE
NASA-CR-58310 N64-28995 20-19

YUH-1 HELICOPTER
ARTIC LOW TEMPERATURE TEST OF YUH-1D HELICOPTER
ASD-TDR-63-564 N64-12680 04-06

YUKAWA POTENTIAL
EQUIVALENCE BETWEEN FOUR-FERMI AND YUKAWA COUPLINGS
UR-875-41 N64-25812 17-23

ZEEMAN EFFECT
GALACTIC MAGNETIC FIELD MEASUREMENT BY ZEEMAN SPLITTING OF 21-CM LINE N64-11408 02-05

LINE EMISSION AND ABSORPTION OF CHROMIUM PHOSPHORES - ZEEMAN EFFECT
E-Y-G-63-19 N64-12279 03-23

ZEEMAN EFFECT IN EMISSION INTENSITY OF GAS DISCHARGE LASER
USAELRDL-TR-2322A N64-15708 07-25

ADVANCED LASER CONCEPTS - ZEEMAN EFFECT LASERS, GAMMA LASERS, RAMAN SCATTERING LASERS AND OTHERS
AID-P-64-35 N64-20850 14-25

THEORY OF ZEEMAN EFFECT FOR RARE EARTH IONS IN CRYSTAL FIELD
IS-871 N64-26467 18-25

ZEEMAN EFFECT AND RUBY LASER POLARIZATION
NASA-CR-58358 N64-28754 20-25

RUBY OPTICAL SPECTRUM - ABSORPTION AMONG ZEEMAN COMPONENTS OF R & B LINES AND OPTICAL DETECTION OF MICROWAVE RESONANCE IN GROUND STATE
TR-437 N64-33872 24-25

ZENER EFFECT
MEASUREMENTS OF NOISE OUTPUT & NOISE SPECTRA FOR 20 VOLT SILICON ZENER DIODES
TR-1184 N64-14489 06-09

ZEOLITE
SYNTHESIS AND MOLECULAR STRUCTURE OF ZEOLITES
FTD-TT-63-979/1&2 N64-21937 15-07

ZEOLITE MEMBRANE ELECTROLYTES FOR FUEL CELLS
NASA-CR-54023 N64-23947 16-26

ZEOLITE TRAP IN SPUTTER-ION PUMP AS NOISE SUPPRESSOR IN MULTIPLIER OF MASS ANALYZER
NASA-CR-58538 N64-29700 21-15

INCLUSION COMPLEXES FORMED BY SULFUR, PHOSPHORUS AND MERCURY IN ZEOLITES - SORPTION AND ADSORPTION
AD-447257 N64-33981 24-07

ZERO ANGLE OF ATTACK
TABLES FOR SUPERSONIC FLOW AROUND RIGHT CIRCULAR CONES AT ZERO ANGLE OF ATTACK
NASA-SP-3004 N64-18949 11-02

INVISCID SUPERSONIC FLOW FIELDS AROUND TWO-DIMENSIONAL AND AXISYMMETRIC BODIES AT ZERO ANGLE OF ATTACK
02-10598 N64-23382 16-11

PARAMETRIC STUDY OF HYPERSONIC FLOW FIELDS ABOUT BLUNT-NOSED CYLINDERS AT ZERO ANGLE OF ATTACK
NASA-TN-D-2342 N64-25711 17-02

MINIMUM DRAG SHAPES FOR BODIES WITH CROSS SECTIONAL ELLIPTICITY AT HYPERSONIC SPEEDS AND ZERO ANGLE OF ATTACK
NASA-TN-D-2432 N64-28722 20-02

FRICTION RESISTANCE OF FLAT PLATE AT ZERO ANGLE OF ATTACK IN REGION BETWEEN CONTINUUM AND FREE MOLECULAR FLOW
FTD-MT-63-83/1&2&3&4 N64-30542 22-17

ZERO CROSSING
ZERO CROSSING WITH STATIONARY RANDOM PROCESS FOR PROBABILITY DENSITY PROBLEMS
RES. REPT.-63-4 N64-16943 09-20

PROBABILITY DENSITIES DEFINED BY ZERO CROSSING POINTS OF ENVELOPE OF SINE WAVE PLUS GAUSSIAN PROCESS
TR-AF-108 N64-26041 18-23

ZERO GRAVITY
ZERO-GRAVITY ERECTION SIMULATION OF SATELLITE APPENDAGES
NASA-TM-X-937 N64-12874 04-10

REFRASIL FIBERGLASS BATT LIQUID LOCK MATERIAL AND CAPILLARY TUBE CONFIGURATIONS FOR ZERO GRAVITY WATER SEPARATOR SYSTEMS
NA-63-1097 N64-19303 12-06

BUBBLE MECHANICS - HEAT TRANSFER OF LIQUIDS BOILING UNDER SUBCOOLED CONDITION IN NEGLIGIBLE GRAVITY ENVIRONMENT
NASA-CR-56013 N64-20644 13-13

CARBON DIOXIDE CHEMICAL REDUCTION UNIT FOR CONTINUOUS ZERO GRAVITY OPERATION
NASA-CR-54060 N64-20679 13-16

CARBON DIOXIDE REDUCTION UNIT DESIGNED FOR CONTINUOUS ZERO GRAVITY OPERATION
NASA-CR-56544 N64-23521 16-17

ELECTRIC PROPULSION SYSTEM TANKAGE DESIGN FOR ZERO GRAVITY RESTART AND LOW GRAVITY OPERATION
ASD-TDR-63-506 N64-26813 18-27

ZERO-GRAVITY POSITIVE EXPULSION TECHNIQUES
NASA CR-56295 N64-27307 19-33

MOTION SICKNESS SYMPTOMOLOGY OF LABYRINTHINE DEFECTIVE AND NORMAL HUMAN SUBJECTS DURING ZERO GRAVITY MANEUVERS
AMRL-TDR-64-47 N64-28562 20-16

EFFECT OF CORIOLIS ACCELERATION DURING ZERO GRAVITY FLIGHT ON CERTAIN HEMATOLOGICAL AND URINARY PARAMETERS IN NORMAL AND LABYRINTHINE DEFECTIVE SUBJECTS
NASA-CR-58675 N64-28876 20-16

BURNING CANDLE AS COMBUSTIBLE MATERIAL AT ZERO GRAVITY
REPT.-5 N64-28913 20-26

ZERO GRAVITY CONTROL OF CESIUM AND HYDROGEN BY ELECTRICAL PHENOMENA
APL-TDR-64-46 N64-30075 21-24

MAINTENANCE TECHNIQUES FOR TETHERED WORKERS UNDER ZERO GRAVITY CONDITIONS
GA-63 N64-32154 23-14

POSITIVE EXPULSION OF CRYOGENIC LIQUIDS FROM TANKS AT ZERO GRAVITY
D2-22297 N64-32877 24-17

AUTOMATIC FLIGHT CONTROL SYSTEM TO SIMULATE ZERO, MOON, OR MARS GRAVITY ENVIRONMENTS IN KC-135 AIRCRAFT
GGC/EE/64-13 N64-33968 24-06

ZERO LIFT
TURBULENT BOUNDARY LAYER, PRESSURE DRAG, AND SKIN DRAG OF DELTA WINGS AT ZERO LIFT & SUPERSONIC VELOCITY
ARC-CP-696 N64-10240 01-03

ZERO LIFT DRAG MEASUREMENTS OF WINGS PROPOSED FOR TRANSONIC FIGHTER AIRCRAFT - GLOSTER JAVELIN
ARC-CP-678 N64-16530 08-04

DRAG-AT-ZERO-LIFT OF PLANE AND HEMISPHERICAL NOSED CYLINDERS AT VARIOUS MACH NUMBERS
ARC-CP-709 N64-25174 17-02

TRANSONIC WIND TUNNEL TESTS TO DETERMINE NOSE CONE AND FIN TAB EFFECT ON ZERO LIFT DRAG OF PRACTICE BOMB
DTNB-AERO-1078 N64-32040 23-02

ZERO POWER REACTOR
ZERO-POWER REACTOR CRITICAL FACILITY KRITO
EUR-498.E N64-16923 09-23

REACTIVITY TEST ASSEMBLY - HETEROGENEOUS LIGHT-WATER UNPRESSURIZED ENRICHED SYSTEM OPERATING AS ZERO POWER REACTOR
NARF-62-14T N64-28908 20-10

ZINC
CLOSED SOURCES OF GAMMA RADIATION - RADIOACTIVE COBALT, ZINC, CESIUM, & IRIDIUM
JPRS-20129 N64-10512 01-07

DISLOCATION OF ZINC CRYSTAL STRUCTURES, ALLOY DEFORMATION STUDY BY ELECTRON MICROSCOPE
JPRS-18154 N64-10745 02-18

SELECTIVE ETCHING METHOD FOR DISLOCATION STRUCTURE

IN ZINC CRYSTALS DURING GROWTH AND DEVELOPMENT
N64-10746 02-18

PHOTOELECTRIC PROPERTIES OF GERMANIUM DOPED WITH GOLD AND ZINC
JPRS-17980 N64-11022 02-25

HEAT RESISTANT ZINC AND CADMIUM CONVERSION COATINGS FOR STEEL
RIA-TR-63-3345 N64-11536 03-18

INTERACTION OF DISLOCATIONS DURING TWINNING OF CRYSTALS OF CALCITE AND OF ZINC
N64-12761 04-25

DOUBLE-PHOTON INDUCED PHOTOELECTRIC EMISSION FROM ZINC SINGLE CRYSTALS ACTIVATED BY LASER BEAM
N64-13799 05-25

NEUTRON LIFETIME OF CADMIUM AND ZINC AT DIFFERENT ENERGY STATES - ZERO-FIELD HYPERFINE INTERVAL MEASUREMENTS
AD-424139 N64-14043 05-23

VIBRATION MODES OF ANISOTROPIC HEXAGONAL METALLIC ZINC CRYSTALS
AMRA-TR-63-19 N64-14690 06-25

ANODIC BEHAVIOR OF ZINC, MERCURY, AND SILVER IN SELECTED AQUEOUS MEDIA - SYNTHESIS OF BERYLLIUM DI-ALKYLS
NASA-CR-55568 N64-15549 07-06

ZINC-POTASSIUM HYDROXIDE-MERCURIC OXIDE RECHARGEABLE ELECTROCHEMICAL CELL FOR AEROSPACE APPLICATION
APL-TDR-64-15 N64-16094 07-06

HEAT TRANSFER TO ZINC-AIR AND FERROUS SULFIDE-AIR SYSTEMS
NASA-CR-55518 N64-16106 07-13

DIFFUSION, SOLUBILITY, & DISTRIBUTION COEFFICIENT OF ZINC IN GALLIUM ARSENIDE & GALLIUM PHOSPHIDE
SEL-63-147 N64-16991 09-25

X-RAY SPECTROGRAPHIC ANALYSIS OF COPPER AND ZINC
N64-17051 09-23

ELECTRICAL AND OPTICAL PROPERTIES OF DIODES PREPARED FROM DIFFUSION OF MANGANESE AND ZINC INTO GALLIUM ARSENIDE - LASERS N64-17873 10-25

SPECTRA DISTRIBUTION OF ELECTROLUMINESCENCE OF MANGANESE AND ZINC DIFFUSED P-N JUNCTIONS
N64-17874 10-25

RECOVERY OF ZINC FROM GALVANIZERS DROSS AND ZINC-BASE DIE-CAST SCRAP BY SIMULTANEOUS REFINEMENT AT LOW TEMPERATURES WITH INEXPENSIVE EQUIPMENT
BM-RI-6417 N64-18639 11-17

COMMERCIALIZATION OF LEAD & ZINC RESEARCH RESULTS AND TECHNICAL DIGEST OF LEAD RESEARCH
N64-19019 11-18

ALKALINE CELLS & BATTERIES - ZINC-ALKALINE MERCURIC OXIDE SYSTEM
AD-439454 N64-21315 14-06

WETTING OF SURFACE OF SEMICRYSTALLINE ZINC WITH MERCURY
FTD-TT-63-384/1&2 N64-22350 15-11

SEPARATION MEMBRANE FOR SILVER OXIDE-ZINC AND SILVER OXIDE-CADMIUM CELLS FOR SPACECRAFT APPLICATION
NASA-CR-56345 N64-23942 16-06

POTASSIUM-HYDROXIDE-ATTACK RESISTANT SEPARATOR FOR ZINC-SILVER OXIDE BATTERY
NASA-CR-56363 N64-24032 16-06

GROWTH-RELATED CHANGES IN ZINC CONTENT OF HUMAN BLOOD
JPRS-25364 N64-25196 17-16

GEOMETRY OF TRANSITION METAL DIHALIDES - FLUORIDES OF MANGANESE, COBALT, NICKEL, COPPER, & ZINC
ITR-6 N64-25586 17-19

TESTING OF ZINC-ALKALINE-MERCURIC OXIDE PRIMARY CELLS AND BATTERIES
REPT.-7 N64-27851 19-06

EFFECT OF ZINC IMPURITIES ON PHOTOELECTRONIC CHARACTERISTICS OF SINTERED CADMIUM SELENIDE LAYERS
MTER-8 N64-28197 20-25

ZINC, COPPER, COBALT, AND MOLYBDENUM IN SOILS OF EUROPEAN PART OF USSR
JPRS-26040 N64-28350 20-07

DIFFUSION, SOLUBILITY, AND DISTRIBUTION COEFFICIENT OF ZINC IN GALLIUM ARSENIDE AND GALLIUM PHOSPHIDE
SEL-63-104 N64-31045 22-25

ARSENIC BEHAVIOR IN PROCESS OF LEACHING ZINC CINDERS IN SULFURIC ACID SOLUTION
N64-31414 23-07

CYCLE LIFE TESTS ON SILVER OXIDE-ZINC AND SILVER OXIDE-CADMIUM CELL SEPARATORS FOR SPACECRAFT APPLICATION
NASA-CR-57013 N64-33186 24-06

IMPROVEMENT OF ZINC ELECTRODES FOR ELECTROCHEMICAL CELLS - MECHANISMS OF ZINC DENDRITE GROWTH IN SILVER-ZINC BATTERIES
NASA-CR-59362 N64-33804 24-06

ZINC ALLOY
FATIGUE AND CRACK PROPAGATION IN ALUMINUM, AND DISLOCATION MECHANISM IN COPPER-ZINC ALLOYS
WADD-TR-60-313, PT. 2 N64-17850 10-33

EFFECT OF CHEMICAL COMPOSITION ON ARTIFICIAL AGE HARDENING & STRESS CORROSION CRACKING OF HIGH STRENGTH ALUMINUM-ZINC-MAGNESIUM-COPPER ALLOYS
RSIC-177 N64-21912 15-18

CORROSION-RESISTANCE, WELDABILITY, HEAT TREATMENT, AND DIFFUSION RATE TESTING OF ALUMINUM-MAGNESIUM-SILICON, ALUMINUM-MAGNESIUM, AND ALUMINUM-ZINC-MAGNESIUM ALLOYS
JPRS-25642 N64-27265 19-18

PLASTIC BEHAVIOR OF ARC-CAST MOLYBDENUM AND ELASTIC LINEAR STRAIN HARDENING OF ZINC ALLOY BEAM
ML-TDR-64-158 N64-30692 22-18

COPPER PLATING OF STEEL, ZINC ALLOY, AND ALUMINUM FROM PYROPHOSPHATE ELECTROLYTES
N64-31424 23-17

INVESTIGATION OF OPTICAL PROPERTY OF COPPER-ZINC ALLOY - COLOR VARIATIONS AS FUNCTION OF ZINC CONCENTRATION AND TEMPERATURE
A64-12 N64-31648 23-25

ZINC COMPOUND
INTERACTION OF ZINC-ALUMINUM BRAZES WITH ALUMINUM ALLOYS - FLOW & WETTING PROPERTIES
N64-10805 02-18

TEMPERATURE EFFECT ON DELAYED FRACTURE OF ALUMINUM ALLOY IN PRESENCE OF LIQUID ZINC AMALGAM
FA-R-1695 N64-12652 04-18

POTENTIOMETRIC CONCENTRATION STUDY OF MERCURY, CADMIUM, LEAD, AND ZINC HALIDE CELLS
NAA-SR-881 N64-14083 05-23

VISCOELASTIC PROPERTIES OF ZINC PHOSPHINATE POLYMER
ONR-TR-RLT-77 N64-22526 15-19

FORMATION HEATS AND FREE ENERGIES OF SULFIDES OF MANGANESE, IRON, ZINC, AND CADMIUM
BM-RI-6495 N64-25841 18-07

PREPARATION AND ELECTROLUMINESCENCE OF ZINC AND CADMIUM SEMICONDUCTOR MATERIALS FOR LASERS
AD-442258 N64-31642 23-25

COMPENSATION LIMITED CONDUCTIVITY IN CADMIUM AND

ZINC BINARY SEMICONDUCTORS N64-31643 23-25

GROWTH OF ZINC YTTRIUM COMPOUND WITH MANGANESE OXIDE FROM BARIUM BORATE METALS
S-658 N64-33945 24-25

ZINC OXIDE
ELECTRONIC & ELECTRIC PROPERTIES OF ZINC OXIDE
DS-133 N64-14094 05-19

EFFECT OF DYNAMIC & STATIC PRESSURE ON DENSITY OF POWDER MIXTURE OF IRON, LITHIUM, NICKEL, & ZINC OXIDES
ERR-FW-212 N64-18947 11-17

SOLUBILITY OF ZINC OXIDE IN VARIOUS SOLUTIONS - DETERMINATION BY ATOMIC ABSORPTION SPECTROSCOPY
ARL/MET-17 N64-21052 14-07

VAPOR PRESSURE & EVAPORATION COEFFICIENTS OF STANNIC, ZINC, & BERYLLIUM OXIDE
UCRL-7521 N64-29891 21-07

ZINC SELENIDE
LUMINESCENCE INTENSITY-CURRENT-TEMPERATURE RELATIONSHIPS FOR CUPROUS SELENIDE-ZINC SELENIDE DIODES N64-13749 05-25

HOT PRESSED ZINC SELENIDE USED AS LONG WAVELENGTH INFRARED DOMES
AL-TDR-64-9 N64-18020 10-19

INJECTION ELECTROLUMINESCENT EMISSION FROM ZINC SELENIDE AND ZINC TELLURIDE CRYSTALS IN SEMICONDUCTORS
AFCRL-64-189 N64-19628 12-25

LONG WAVELENGTH INFRARED DOMES - RAW & HOT-PRESSED ZINC SELENIDE DEVELOPMENT
IER-1 N64-26311 18-18

ELECTRIC PROPERTIES OF ZINC SELENIDE
DS-132 N64-27558 19-25

PERFORMANCE CHARACTERISTICS OF ELECTROLUMINESCENT ZINC SULFOSELENIDE PHOSPHOR POWDERS IN PLASTIC DIELECTRICS
RADC-TDR-64-159 N64-29965 21-07

SEMICONDUCTOR DEVICE STUDIES - COPPER-DOPED AND SILVER-DOPED CADMIUM SULFIDE CRYSTALS, IMPURITY EFFECT ON ZINC SELENIDE ELECTRIC PROPERTIES, AND JUNCTION LASER DESIGN
AFCRL-64-702 N64-31819 23-25

ZINC-SILVER OXIDE BATTERY
SILVER OXIDE-POTASSIUM HYDROXIDE-ZINC DRY TAPE BATTERY - CURRENT DENSITY AND WATT HOUR PER POUND
NASA-CR-52712 N64-11099 02-06

ZINC-SILVER OXIDE BATTERY DEVELOPMENT FOR SPACE POWER SUPPLIES
NASA-CR-55634 N64-16329 08-06

SEALED ZINC-SILVER OXIDE SECONDARY BATTERY SYSTEM
AD-432195 N64-17283 09-06

CELL CONSTRUCTION VARIABLES AFFECTING PERFORMANCE CHARACTERISTICS OF ZINC-SILVER OXIDE BATTERIES
NASA-CR-56077 N64-20645 13-06

POTENTIAL CAPABILITY OF SILVER OXIDE-ZINC ALKALINE COUPLE - ENERGY STORAGE N64-27108 19-06

SEPARATORS FOR SILVER OXIDE-ZINC AND SILVER OXIDE-CADMIUM BATTERIES
NASA-CR-57007 N64-27241 19-06

EFFECT OF SURFACTANTS IN ELECTROLYTE ON SILVER OXIDE-ZINC BATTERY CYCLE LIFE
QTPR-2 N64-27712 19-09

RECOMBINATION REACTIONS, SEPARATOR MATERIALS, AND ADDITIVES FOR SEALED ZINC-SILVER OXIDE BATTERY
QPR- 3 N64-28239 20-06

POLYMERS FOR USE AS SEPARATOR FILMS IN SILVER OXIDE-ZINC AND SILVER OXIDE-CADMIUM CELLS FOR USE IN SPACECRAFT
NASA-CR-56943 N64-29171 21-06

ZINC SULFIDE
DATA PROCESSING OF INFORMATION ON ELECTRICAL AND ELECTRONIC PROPERTIES OF ZINC SULFIDE
DS-135 N64-13957 05-19

OPTICAL QUENCHING & STIMULATION OF ZINC-SULFIDE PHOSPHORS
FTD-MT-63-41/1&2 N64-18753 11-25

PERFORMANCE CHARACTERISTICS OF ELECTROLUMINESCENT ZINC SULFOSELENIDE PHOSPHOR POWDERS IN PLASTIC DIELECTRICS
RADC-TDR-64-159 N64-29965 21-07

OPTICAL SECOND-HARMONIC GENERATION IN ZINC SULFIDE-CADMIUM SULFIDE AND CADMIUM SULFIDE-CADMIUM SELENIDE ALLOYS
ML-1231 N64-33695 24-25

ZINC TELLURIDE
INJECTION ELECTROLUMINESCENT EMISSION FROM ZINC SELENIDE AND ZINC TELLURIDE CRYSTALS IN SEMICONDUCTORS
AFCRL-64-189 N64-19628 12-25

REFRACTIVE INDEX, VACUUM COATING, AND CRYSTAL GROWTH OF LEAD CHLORIDE, ZINC TELLURIDE, AND LITHIUM FLUORIDE FILMS
AD-600264 N64-26622 18-25

DIELECTRICS, MICROELECTRONICS, AND THIN FILMS OF CADMIUM SELENIDE AND ZINC TELLURIDE
QR-1 N64-30205 21-25

LITHIUM FLUORIDE, ZINC TELLURIDE, & LEAD CHLORIDE INFRARED COATINGS
QR-2 N64-31189 22-25

INJECTION ELECTROLUMINESCENCE IN ZINC TELLURIDE P-TYPE SEMICONDUCTORS N64-31647 23-25

ZIRCALOY
CLEANING PROCEDURES FOR ZIRCALOY PRESSURE BONDING
WAPD-TM-375 N64-10366 01-17

EFFECT OF HYDROGEN ON CREEP PROPERTIES OF ANNEALED ZIRCALOY-2
AECL-1826 N64-10378 01-18

LENGTH CHANGES OF ZIRCALOY SHEATHED URANIUM OXIDE FUEL ELEMENTS DURING IRRADIATION
CRFD-1174 N64-12092 03-19

IRRADIATION OF TANDEM-EXTRUDED JOINTS BETWEEN ZIRCALOY AND STAINLESS STEEL
DP-859 N64-12721 04-18

IN-REACTOR CREEP ANALYSIS OF ZIRCALOY-2 N64-14231 06-18

REACTOR ENVIRONMENT AND IRRADIATION EFFECT ON STRUCTURAL MATERIALS - ZIRCALOY-2, HASTELLOY X-280, AND NICKEL BASE ALLOYS N64-14232 06-23

EDDY CURRENT AND ULTRASONIC TESTING OF ZIRCALOY-2, ZIRCONIUM ROD STOCK, AND STAINLESS STEEL
ANL-6632 N64-14389 06-18

HYDROGEN CONCENTRATION AND HYDRIDE MORPHOLOGY EFFECTS ON TENSILE PROPERTIES OF ANNEALED AND QUENCHED ZIRCALOY
WAPD-TM-275 N64-15392 07-18

ZIRCONIUM ALLOY AND ZIRCALOY STUDIES
GEAP-4089, VOL. 2 N64-16119 08-18

PICKUP AND RELEASE OF FLUORINE BY ZIRCALOY
AECL-1903 N64-16150 08-07

SILICON, NITROGEN, AND OXYGEN IMPURITIES EFFECT ON CORROSION AND HYDROGEN ABSORPTION OF ZIRCALOY-2
WAPD-283 N64-16239 08-18

QUANTITATIVE METALLOGRAPHY OF HYDRIDE PHASE IN ZIRCALOY-2 PROCESS TUBES FROM NUCLEAR REACTOR
HW-74949 N64-19038 11-07

FUEL RODS CLAD WITH STAINLESS-STEEL-LINED ZIRCALOY-2
GEAP-4555 N64-20520 13-23

FABRICATION OF ZIRCALOY-2 CLAD THORIUM-URANIUM ALLOY FUEL ELEMENTS
HW-79843 N64-22501 15-18

ZIRCALOY-2 PRESSURE TUBES FOR NEUTRON-REACTOR
HW-80566 N64-25652 17-23

NEUTRON IRRADIATION EFFECTS ON FLOW AND FRACTURE BEHAVIOR OF ZIRCALOY-2
HW-82102 N64-26743 18-18

STABILITY OF ZIRCALOY CLAD URANIUM DIOXIDE FUEL ELEMENTS IRRADIATED TO HIGH BURNUP
CRFD-1178 N64-28256 20-18

SLOW NOTCH BEND AND IMPACT TESTS FOR FRACTURE BEHAVIOR STUDIES OF ZIRCALOY 2
HW-82631 N64-28660 20-33

BRAZING PROCESS FOR BONDING ZIRCALOY 2 CLADDING TO GRAPHITE MODERATOR USING COPPER AS BRAZING AGENT
NAA-SR-9604 N64-28674 20-17

IMPURITY EFFECTS ON ZIRCALOY-2 MICROSTRUCTURE, MECHANICAL PROPERTIES, AND CORROSION RATES
BM-RI-6536 N64-30398 22-18

RADIATION EFFECT ON ZIRCALOY-2 PRESSURE TUBES AND FUEL CLADDING IN REACTORS
AECL-2021 N64-30631 22-18

ULTRASONIC TEST METHOD AND EQUIPMENT FOR THIN WALL TUBING - ZIRCALOY SHEATH TUBING
HW-81957 N64-30801 22-17

ZIRCALOY 2, ZIRCONIUM, AND NIOBIUM ALLOYS FOR USE IN PRESSURE TUBES OF POWER REACTORS
AECL-2022 N64-33136 24-18

ZIRCONIUM
X-RAY ANALYSIS OF SOLUBILITY OF TITANIUM, YTTRIUM, ZIRCONIUM, AND NICKEL IN BERYLLIUM
JPRS-17681 N64-10565 01-18

PRODUCTION AND METALLURGICAL PROPERTIES OF ZIRCONIUM, NIOBIUM, MOLYBDENUM, AND IRON
JPRS-22697 N64-13726 05-01

HYDROGEN AND NITROGEN EFFECT ON CORROSION RESISTANCE OF ZIRCONIUM METAL IN WATER VAPOR
N64-13728 05-07

EDDY CURRENT AND ULTRASONIC TESTING OF ZIRCALOY-2, ZIRCONIUM ROD STOCK, AND STAINLESS STEEL
ANL-6632 N64-14389 06-18

ZIRCONIUM INHIBITOR FOR RETARDING CORROSION OF LOW ALLOY STEELS EXPOSED TO LIQUID BISMUTH & LEAD ALLOYS
BNL-811/T-313/ N64-14427 06-18

CHEMICAL PROCESSING OF ZIRCONIUM FUEL, ALUMINUM FUEL, AND ADSORPTION OF ORGANIC AGENTS ON FISSION PRODUCTS
IDO-14616 N64-16253 08-07

X-RAY FLUORESCENCE ANALYSIS OF POTASSIUM, BARIUM, RUBIDIUM, STRONTIUM, TITANIUM, ZIRCONIUM, AND PHOSPHORUS
RSIC-137 N64-17656 09-07

SEPARATION & DETERMINATION OF RARE EARTH IN ZIRCONIUM RARE-EARTH ALLOYS THROUGH CHEMICAL REACTION
BM-RI-6430 N64-18988 11-07

METHOXY-BENZYL-ACETIC ACID AS PRECIPITANT FOR ZIRCONIUM N64-20660 13-07

SEPARATION AND DETERMINATION OF ZIRCONIUM AND THORIUM BY ORGANIC PRECIPITATION
N64-20925 14-07

DIFFUSION IN BODY-CENTERED CUBIC METALS - ZIRCONIUM, VANADIUM, NIOBIUM AND TANTALUM
ORNL-3617 N64-22948 16-18

SAFE HANDLING OF ZIRCONIUM METAL AND ZIRCONIUM ALLOY
AHSB-/S/-R-59 N64-23919 16-18

SYSTEM FOR NUCLEAR AUXILIARY POWER /SNAP/ PROGRAM FUELS USING ZIRCONIUM AND URANIUM SYSTEMS - BIBLIOGRAPHY
NAA-SR-9525, VOL. I N64-25866 18-18

PLASMA ARC TECHNIQUE FOR SPECTROCHEMICAL DETERMINATION OF TITANIUM AND ZIRCONIUM IN MOLYBDENUM ALLOYS
ML-TDR-64-36 N64-26855 18-07

VAPOR DEPOSITION OF BORIDES OF TITANIUM, HAFNIUM, AND ZIRCONIUM
R64SD46 N64-29433 21-07

THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM HALIDES
QPR-2 N64-32678 23-10

NUCLEAR RESEARCH, INCLUDING WORK ON HIGH TEMPERATURE MATERIALS, ZIRCONIUM METALLURGY, HIGH FLUX ISOTOPE REACTOR, GAS COOLED REACTOR, AND THORIUM UTILIZATION PROGRAM
ORNL-3670 N64-32700 24-23

RHENIUM DETERMINATION IN RHENIUM-URANIUM-ZIRCONIUM CARBIDE USING X-RAY ABSORPTION EDGE METHOD
LA-3135 N64-33879 24-07

ZIRCONIUM ALLOY
METALLURGY OF TERNARY ALLOYS OF NIOBIUM-TUNGSTEN-ZIRCONIUM, AND OF NIOBIUM-MOLYBDENUM-ZIRCONIUM
JPRS-22593 N64-12358 03-18

PRODUCTION & TESTING OF MOLYBDENUM-TITANIUM AND TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY SHEET
AD-423981 N64-13118 04-18

OXIDE FILM ON ZIRCONIUM-NIOBIUM AND ZIRCONIUM-NIOBIUM-MOLYBDENUM ALLOYS IN AIR
N64-13729 05-18

CONTINUOUS AQUEOUS PROCESS FOR RECOVERY OF URANIUM FROM ZIRCONIUM ALLOY NUCLEAR FUELS
IDO-14619 N64-14241 06-07

SYMPOSIUM ON ZIRCONIUM ALLOYS FOR POWER REACTORS - CORROSION RESISTANCE, STRUCTURE DEFECTS & ELECTRIC PROPERTIES
GEAP-4089, VOL. 1 N64-14425 06-18

REENTRY BURNUP OF HYDRIDED ZIRCONIUM-URANIUM ALLOY
N64-14576 06-18

MACHINING TESTS OF TITANIUM-ZIRCONIUM-MOLYBDENUM AND MOLYBDENUM-TITANIUM ALLOYS, AND THEIR MICROSTRUCTURE AND CHEMICAL COMPOSITION
ASD-TDR-63-581 N64-14873 06-17

ZIRCONIUM ALLOY AND ZIRCALOY STUDIES
GEAP-4089, VOL. 2 N64-16115 08-18

MECHANICAL PROPERTIES & SURFACE CONDITIONS OF CHEMICAL MILLED NIOBIUM-ZIRCONIUM ALLOYS
A473 N64-16881 08-18

MECHANICAL AND PHYSICAL PROPERTIES OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY AND TUNGSTEN SHEET
REPT.-6659-1479-5 N64-16992 09-18

ZIRFLEX AND NEUFLEX PROCESSES FOR PREPARATION OF SOLVENT EXTRACTION FEEDS FROM UNIRRADIATED ZIRCONIUM-BASE REACTOR FUELS
ORNL-3465 N64-17255 09-07

STRUCTURE & PROPERTIES OF URANIUM, THORIUM, AND ZIRCONIUM ALLOYS
JPRS-24347 N64-19441 12-18

CORROSION RESISTANCE OF THORIUM-ZIRCONIUM-NIOBIUM ALLOYS N64-19446 12-18

EFFECT OF DEGREE OF VACUUM ON SLOW-BEND CREEP OF NIOBIUM-ZIRCONIUM ALLOY AT HIGH TEMPERATURE

ORNL-3569 N64-21298 14-18

MECHANICAL AND PHYSICAL PROPERTIES OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY AND TUNGSTEN SHEET
REPT.-6774-1479-VI N64-21410 14-18

DIFFUSION MOBILITY OF ZIRCONIUM IN ZIRCONIUM-NIOBIUM ALLOYS
FTD-TT-63-258/1&2 N64-21944 15-18

TENSION AND FLEXURE TESTING OF TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOYS FOR X-20A AIRCRAFT
REPT.-311.23 N64-22428 15-18

SOLUBILITY OF NIOBIUM-ZIRCONIUM IN SODIUM BY ACTIVATION ANALYSIS
NRL-6051 N64-22508 15-07

EFFECT OF DIFFUSED CHROMIUM PLATING ON MECHANICAL PROPERTIES OF ZIRCONIUM-MOLYBDENUM ALLOY
A745 N64-22587 15-18

ULTRASONIC INSPECTION OF MMS-184 TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOY SHEET FOR DISCONTINUITY DEFECTS
A746 N64-22588 15-17

METALLOGRAPHIC EXAMINATION OF TITANIUM-ZIRCONIUM MOLYBDENUM ALLOY SHEET
A747 N64-22589 15-17

TENSILE PROPERTIES OF SILICIDE COATED TITANIUM-ZIRCONIUM-MOLYBDENUM SHEET ALLOY AT ROOM AND ELEVATED TEMPERATURES
A748 N64-22590 15-18

ADDITION EFFECT OF ALLOYING ADMIXTURES ON SCALING RESISTANCE AND OXYGEN CONTAMINATION OF BINARY ALLOY OF NIOBIUM AND ZIRCONIUM
FTD-TT-63-1020/1&2 N64-23435 16-18

SAFE HANDLING OF ZIRCONIUM METAL AND ZIRCONIUM ALLOY
AHSB-/S/-R-59 N64-23919 16-18

MECHANICAL AND THERMOPHYSICAL PROPERTIES OF COATED NIOBIUM AND TITANIUM-ZIRCONIUM-MOLYBDENUM ALLOYS AND SUPERALLOY THIN SHEET
SID-63-956 N64-24126 16-18

CHEMICAL MILLING EFFECTS ON NIOBIUM-ZIRCONIUM ALLOY
A740 N64-24209 16-18

MECHANICAL PROPERTIES AND FABRICATION OF NIOBIUM-TUNGSTEN-ZIRCONIUM ALLOY SHEET
A742 N64-24210 16-18

REFRACTORY MATERIALS FOR COATINGS AND FASTENERS AND COATED FASTENER OF TITANIUM-ZIRCONIUM-MOLYBDENUM SYSTEM ALLOY N64-25045 17-17

SPECTROGRAPHIC ANALYSIS OF SOLUTIONS ON CORED GRAPHITE - APPLICATION TO ZIRCONIUM-NIOBIUM ALLOY
ONERA-TN-76 N64-25607 17-18

REACTOR MATERIALS, FUEL ELEMENTS, RADIOISOTOPES AND RADIATION, FISSION PRODUCTS, AND MECHANICAL PROPERTIES OF ZIRCONIUM AND ALUMINUM ALLOYS
BNI-1672 N64-25947 18-19

METALLOGRAPHIC STUDY OF MICROSCOPIC DEFECTS IN ZIRCONIUM-MOLYBDENUM ALLOY PANELS
A744 N64-26216 18-18

DISSOLUTION OF ZIRCONIUM ALLOY FUELS IN STAINLESS STEEL VESSELS
DP-872 N64-26843 18-18

METALLURGICAL EXAMINATION OF INTERMETALLIC DIFFUSION BETWEEN ZIRCONIUM-NIOBIUM ALLOY AND TYPE 316 STAINLESS STEEL
CNLM-5232 N64-27419 19-18

THERMODYNAMIC AND MECHANICAL PROPERTIES OF NIOBIUM-NITROGEN AND NIOBIUM-ZIRCONIUM-NITROGEN ALLOYS
ML-TDR-64-134 N64-27461 19-18

REACTOR TECHNOLOGY - FUEL ELEMENTS, CORROSION, CREEP, ZIRCONIUM ALLOYS, AND GAS COOLED REACTOR
BNI-1674-/DEL/ N64-28017 20-18

GRAIN BOUNDARY AND LATTICE DIFFUSION OF CHROMIUM IN ZIRCONIUM
AEET/CD/22 N64-28658 20-07

COOLING RATE EFFECT ON HARDNESS OF ZIRCONIUM-NIOBIUM ALLOYS
CRRM-1200 N64-30905 22-18

NEUTRON IRRADIATION EFFECTS ON MECHANICAL PROPERTIES OF HYDRIDED ZIRCONIUM ALLOYS
AECL-1986 N64-30906 22-18

ZIRCALOY 2, ZIRCONIUM, AND NIOBIUM ALLOYS FOR USE IN PRESSURE TUBES OF POWER REACTORS
AECL-2022 N64-33136 24-18

ZIRCONIUM CARBIDE
MECHANICAL & THERMODYNAMIC PROPERTIES OF HOT PRESSED ZIRCONIUM CARBIDE
NASA-CR-52455 N64-10339 01-18

OPTICAL EMISSIVITY & ELECTRICAL RESISTIVITY OF URANIUM-ZIRCONIUM CARBIDE PIN AT HIGH TEMPERATURES
LAMS-2965 N64-11593 03-18

MASS LOSS RATE OF URANIUM AND ZIRCONIUM FROM URANIUM CARBIDE-ZIRCONIUM CARBIDE FLUIDIZED BY HELIUM AND HYDROGEN
LAMS-2994 N64-14240 06-23

EFFECT OF VARIATIONS IN TIME, TEMPERATURE, AND PRESSURE ON DENSITY & GRAIN SIZE IN HOT PRESSING OF HAFNIUM-TANTALUM-ZIRCONIUM CARBIDES
NASA-RP-162 N64-19993 12-17

PARTICLE-TO-GAS HEAT TRANSFER OF ZIRCONIUM CARBIDE BEDS FLUIDIZED BY HELIUM OR ARGON
LA-3061 N64-20695 13-13

REACTIONS OF ZIRCONIUM AND HAFNIUM CARBIDES AND BORIDES WITH OXYGEN- OR HALOGEN-CONTAINING ATMOSPHERES
ASD-TDR-62-204, PT. III N64-25473 17-18

HEATS OF FORMATION OF ZIRCONIUM CARBIDE AND HAFNIUM CARBIDE MEASURED BY COMBUSTION CALORIMETRY
BM-RI-6518 N64-28133 20-07

X-RAY ANALYSIS OF RECRYSTALLIZATION OF BORIDES OF TITANIUM, ZIRCONIUM, AND MOLYBDENUM AND CARBIDES OF TITANIUM AND TUNGSTEN
JPRS-16059 N64-28632 20-07

POWDER METALLURGY OF SUPERALLOY BILLETS - BLEND OF MOLYBDENUM POWDER WITH TITANIUM AND ZIRCONIUM CARBIDE
ASD-7-911/VII/ N64-30902 22-18

ELECTRICAL AND MECHANICAL PROPERTIES OF REFRACTORY METAL CARBIDES - CARBIDES OF TITANIUM, NIOBIUM, AND ZIRCONIUM
PR-2 N64-32517 23-25

ZIRCONIUM COMPOUND
PREPARATION OF ZIRCONIUM & HAFNIUM ALDEHYDIC POLYMERS AND TANTALUM CARBIDE-HAFNIUM CARBIDE ALLOYS N64-15109 07-19

CHARACTERISTICS OF ZIRCONIUM, NIOBIUM, & TANTALUM BERYLIDES AS THERMIONIC EMITTERS
DRI-2137 N64-19975 12-06

VAPOR PRESSURE MEASUREMENT OF ZIRCONIUM TETRAFLUORIDE BY MASS SPECTROMETER
FTD-TT-64-219/1&2&4 N64-25467 17-19

STRESS-STRAIN BEHAVIOR OF STRONTIUM ZIRCONATE SINGLE CRYSTALS
BMPR-3 N64-26268 18-19

THERMODYNAMIC PROPERTIES OF ZIRCONIUM AND HAFNIUM HALIDES
QPR-1 N64-33030 24-07

CHROMIUM, MOLYBDENUM, AND TUNGSTEN BINDERS FOR

ZIRCONIUM DIBORIDE SUBJECTED TO MECHANICAL SHOCK AT HIGH TEMPERATURES
BM-RI-6549 N64-33247 24-18

SCALE UP & THERMAL TESTING OF ZIRCONIUM-BORIDE-MOLYBDENUM-SILICIDE REFRACTORY CERAMIC COMPOSITE FOR LEADING EDGES OF HYPERSONIC VEHICLES
REPT.-2178-900204 N64-33655 24-34

ZIRCONIUM HYDRIDE
COMBUSTION AND DISINTEGRATION OF ZIRCONIUM HYDRIDE-URANIUM FUEL RODS N64-14574 06-26

INELASTIC SCATTERING OF MONOENERGETIC NEUTRONS IN ZIRCONIUM HYDRIDE, POLYETHYLENE, LIQUID METHANE, AND LIQUID PARA-HYDROGEN
GA-4434 N64-16128 08-23

EQUILIBRIUM DISSOCIATION PRESSURES OF DELTA AND EPSILON PHASES IN ZIRCONIUM-HYDROGEN ALLOYS
NAA-SR-9374 N64-21980 15-18

FISSION PRODUCT RELEASE FROM SYSTEM FOR NUCLEAR AUXILIARY POWER 10A/2 /SNAP-10A/ URANIUM-ZIRCONIUM HYDRIDE FUEL
NAA-SR-9673 N64-26631 18-23

ZIRCONIUM IODIDE
IODIDE REFINING OF ZIRCONIUM AND ZIRCONIUM IODIDE FOR REDUCTION OF NONMETALLIC IMPURITIES - CARBON, OXYGEN, NITROGEN, AND HYDROGEN N64-13727 05-17

ZIRCONIUM NITRIDE
THERMAL PROPERTIES OF REFRACTORY MATERIALS - BORON CARBIDE, NIOBIUM, TANTALUM, AND MOLYBDENUM ALLOYS, AND ZIRCONIUM NITRIDE
ASD-TDR-63-597 N64-11471 03-13

WETTING & IMPREGNATION OF TITANIUM AND ZIRCONIUM NITRIDE BRIQUETS BY MOLTEN COBALT AND NICKEL TO PRODUCE HEAT- AND WEAR-RESISTANT MATERIALS
N64-11481 03-18

ZIRCONIUM OXIDE
SPECTROCHEMICAL METHOD FOR ANALYSIS OF ZIRCONIA FOR LOW HAFNIA CONTENT
AEET/ANAL/27, REV. N64-10229 01-19

INFLUENCE OF TITANIUM, ZIRCONIUM, AND THORIUM OXIDES UPON THE RECRYSTALLIZATION OF MOLYBDENUM
N64-11016 02-18

LARGE BLOW-DOWN HYPERSONIC WIND TUNNEL WITH METHANE-OXYGEN FIRED ZIRCONIUM OXIDE BED
ARL-63-223 N64-14682 06-10

CONDUCTIVITY AND TRANSPORT NUMBERS FOR ZIRCONIUM OXIDE-CALCIUM OXIDE CERAMIC SYSTEMS
FTD-TT-62-1275/1&2&4 N64-14907 06-23

APPLICATION OF DOUBLE CLAMSHELL ARC IMAGING SYSTEM TO THERMAL EXPANSION & OTHER PHYSICAL PROPERTY MEASUREMENTS OF ALUMINA AND ZIRCON
AFCRL-63-591 N64-15571 07-15

INORGANIC ZEOLITE MEMBRANES USED IN HYDROGEN-OXYGEN FUEL CELL
NASA-CR-55746 N64-15875 07-06

CERAMIC PROPERTIES OF ZIRCONIUM DIOXIDE-SILICON DIOXIDE SYSTEM
FTD-TT-63-475/1&2 N64-16370 08-19

HIGH TEMPERATURE THERMAL INSULATION MATERIALS WITH EMPHASIS ON EFFECT OF INTERNAL RADIATION BARRIERS OF ZIRCONIA FOAMS
NASA-CR-53201 N64-17591 09-19

INFRARED SPECTRUM ANALYSIS OF MOLECULES VAPORIZED FROM OXIDES OF ZIRCONIUM, HAFNIUM, AND THORIUM BY MATRIX ISOLATION N64-18804 11-07

BOND MECHANISM INVOLVED IN CHEMICALLY BONDED ZIRCONIA
SM-45945 N64-19010 11-12

INFRARED RADIATION PROPERTIES OF FLAME SPRAYED CERAMIC COATINGS, OXIDES OF ALUMINUM, CHROMIUM, AND ZIRCONIUM, AND SOLID BORON NITRIDE
AMRA-TR-64-03 N64-22710 15-23

THERMAL EXPANSION OF ZIRCONIUM OXIDE STABILIZED WITH YTTRIUM OXIDE
NASA-CR-56458 N64-24037 16-18

AXIAL THERMAL EXPANSION OF TETRAGONAL ZIRCONIUM DIOXIDE
ARL-64-63 N64-24156 16-13

THERMAL SHOCK RESISTANCE OF ZIRCONIUM OXIDE WITH METAL ADDITIONS
NASA-TN-D-2464 N64-29510 21-18

SINTERING, THERMOCONDUCTIVITY, THERMAL EXPANSION, RESISTIVITY, HARDNESS, & CRACK RESISTANCE OF SINTERED URANIUM OXIDE-ZIRCONIUM OXIDE BLENDS
BMI-1689 N64-30768 22-23

ZODIACAL LIGHT
NATURE AND ORIGIN OF METEORITES, ZODIACAL LIGHT, AND ASTEROIDS N64-21130 14-05

CORPUSCULAR RADIATION OF SUN AND ZODIACAL LIGHT N64-24776 17-29

ANNOTATED BIBLIOGRAPHY ON SKY ILLUMINATION - AIRGLOW, AURORAS, NOCTILUCENT CLOUDS, ZODIACAL LIGHT, GEGENSCHEIN, AND INSTRUMENTATION
AID-B-64-42 N64-24951 17-12

NARROW AND WIDEBAND PHOTOMETRY POLARIZATION OBSERVATIONS OF AIRGLOW AND ZODIACAL LIGHT
NASA-CR-56881 N64-27274 19-12

RADIATION ANALYZER TO MEASURE POLARIZATION AND ELLIPTICITY OF ZODIACAL LIGHT FROM ORBITING SOLAR OBSERVATORY /OSO/
NASA-CR-56313 N64-27397 19-15

OBSERVING SOLAR CORONA FROM LIMB OF SUN TO ZODIACAL LIGHT N64-28766 20-21

SURFACE BRIGHTNESS AND ORIENTATION OF PLANE OF POLARIZATION OF ZODIACAL LIGHT DERIVED FROM PHOTOELECTRIC POLARIMETER
NASA-CR-58496 N64-29199 21-12

PHOTOMETRY OF NIGHT SKY - EFFECTS OF INTEGRATED STARLIGHT, ZODIACAL LIGHT, AND AIRGLOW ON LIGHT INTENSITY
NASA-CR-59011 N64-33214 24-12

RESOLUTION OF NIGHT SKY LIGHT INTO BASIC COMPONENTS OF INTEGRATED STARLIGHT, ZODIACAL LIGHT AND AIRGLOW
NASA-CR-58994 N64-33224 24-12

ZONAL HARMONICS
EFFECTS OF UNCERTAINTIES IN SOME ZONAL HARMONICS OF EARTH GRAVITY POTENTIAL ON SATELLITE POSITION DETECTION
SSD-TDR-63-174 N64-12236 03-12

DEVELOPMENT OF EARTH GRAVITATIONAL POTENTIAL FROM SIXTH THROUGH TWELFTH ZONAL HARMONIC
NASA-TM-X-51281 N64-17612 09-12

ASSIGNMENT OF VALUES TO SECOND, THIRD, AND FOURTH HARMONICS OF EARTH POTENTIAL N64-18239 10-29

ZONAL HARMONICS TO EVALUATE MAGNETIC FIELDS GENERATED BY AXISYMMETRIC CURRENT SHEETS
NASA-TN-D-2400 N64-26248 18-25

ZONAL HARMONIC PERTURBATIONS OF ARTIFICIAL SATELLITE
BRL-1246 N64-26887 18-23

ALGORITHM FOR POSITION AND VELOCITY COORDINATES OF ZONAL HARMONIC PERTURBATIONS OF ACCURATE REFERENCE ORBIT USING VINTI THEORY
NASA-TM-X-55021 N64-27255 19-23

PERTURBATION EFFECTS ON SATELLITE ORBIT PARAMETERS DUE TO ZONAL GRAVITATIONAL HARMONICS
AFCRL-64-566/V/ N64-30947 22-29

ZONE
PLASTIC ZONE IN FRACTURE OF MARAGING STEEL
N64-24356 17-18

ZONE MELTING
PRODUCTION OF METALS BY ZONE MELTING & REFINING WITH ELECTRON BEAMS
JPRS-19147 N64-10816 02-18

ZONE MELTING METHOD FOR DISTILLATION OF BERYLLIUM FROM BERYLLIUM OXIDE
I-82122-1 N64-13851 05-18

DISLOCATION CONFIGURATIONS IN ZONE-MELTED SINGLE CRYSTAL MOLYBDENUM N64-17448 09-25

ZONE REFINING
ZONE REFINING OF TUNGSTEN AND RESISTANCE MEASUREMENTS OF SINGLE CRYSTALS
Q-8-1973-3 N64-10242 01-18

PRODUCTION OF METALS BY ZONE MELTING & REFINING WITH ELECTRON BEAMS
JPRS-19147 N64-10816 02-18

ZONE REFINING OF CEMENTED TUNGSTEN-BASE ALLOYS
WAL-TR-372/32-8-T1 N64-12341 03-18

ZONE REFINING OF CEMENTED TUNGSTEN-BASE ALLOYS
WAL-TR-372/32-7-T1 N64-12381 03-18

CASTING, PRODUCTION, AND ZONE REFINING OF HIGH TEMPERATURE REFRACTORY METAL ALLOYS
JPRS-22336 N64-12445 04-01

ZONE ELECTRON BEAM MELTING AND PRODUCTION OF SINGLE CRYSTALS OF REFRACTORY METALS
N64-12447 04-25

ZONE REFINING OF NIOBIUM BY ELECTRIC-ARC
N64-12449 04-17

DISTRIBUTION OF CARBON, IRON, LEAD, AND TUNGSTEN ADDITIONS TO NIOBIUM AFTER ZONE REFINING BY ELECTRIC ARC METHOD N64-13731 05-17

MASS SPECTROGRAPHIC ANALYSIS OF ZONE REFINING OF DISTRIBUTION COEFFICIENT OF SILICON IN ALUMINUM
TR-7 N64-26811 18-18

PREPARATION OF HIGH PURITY IRON SINGLE CRYSTALS BY FLOAT-ZONE AND ELECTRON BEAM ZONE REFINING OF POLYCRYSTALLINE MATERIAL N64-29097 21-25

CADMIUM TELLURIDE ENERGY CONVERTER - NEW ZONE REFINING TECHNIQUE
NASA-CR-56836 N64-29514 21-06

ISOTHERMAL RECRYSTALLIZATION KINETICS OF ELECTRON BEAM ZONE REFINED IRON
ARL-64-131 N64-33927 24-18

ZOOLOGY
AEROSPACE MEDICINE AND ANIMAL SYSTEMS IN BIONICS
JPRS-25765 N64-27059 19-16

ZOOLOGY CONFERENCE - INVERTEBRATES, MARINE LIFE, PARASITES, VERTEBRATES, PALEONTOLOGY, ZOOGEOGRAPHY AND ECOLOGY
NASA-CR-59306 N64-33512 24-16

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NASA-CR-59304 N64-33515 24-16

CONGRESS OF ZOOLOGY SYMPOSIUM ON NATURE, MAN, AND PESTICIDES
NASA-CR-59303 N64-33687 24-16

PROTECTION OF VANISHING SPECIES - INTERNATIONAL CONGRESS OF ZOOLOGY SYMPOSIA ON SCIENCE AND MAN
NASA-CR-59027 N64-33924 24-16

ZUBOV PROPOSITION
ZUBOV METHOD FOR CONSTRUCTING LIAPUNOV FUNCTION - ASYMPTOTIC STABILITY
NM-TRANS-389 N64-15245 07-20

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